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# ANNUAL REPORT

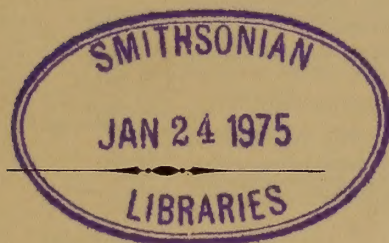
OF THE

284

# COMMISSIONER OF PATENTS

FOR THE YEAR

1909



WASHINGTON  
GOVERNMENT PRINTING OFFICE  
1910







# REPORT

## OF THE

# COMMISSIONER OF PATENTS

## TO CONGRESS

FOR THE YEAR ENDED DECEMBER 31, 1909.

DEPARTMENT OF THE INTERIOR,  
UNITED STATES PATENT OFFICE,  
Washington, D. C., January 31, 1910.

To the Senate and House of Representatives of the United States of America in Congress assembled:

In compliance with section 494 of the Revised Statutes I have the honor to submit the following report of the business of the Patent Office for the year ended December 31, 1909:

### RECEIPTS.

*Detailed statement of all moneys received for patents, for copies of records or drawings, or from any source whatever.*

<b>Applications:</b>	
Cash received.....	\$1,790,652.00
Cash refunded.....	6,620.00
Net cash.....	1,784,032.00
Certificates of deposit.....	55,180.00
Total cash and certificates.....	1,839,212.00
<b>Copies:</b>	
Cash received.....	174,592.48
Cash refunded.....	6,971.31
Net cash.....	167,621.17
Certificates of deposit.....	963.50
Total cash and certificates.....	168,584.67
<b>Recording assignments:</b>	
Cash received.....	32,774.88
Cash refunded.....	1,905.13
Net cash.....	30,869.75
Certificates of deposit.....	201.00
Total cash and certificates.....	31,070.75
<b>Subscriptions to Official Gazette:</b>	
Cash received.....	301.12
Cash refunded.....	23.90
Net cash.....	277.22
Certificates of deposit.....	.....
Total cash and certificates.....	277.22
<b>Registration of prints and labels:</b>	
Cash received.....	4,439.00
Cash refunded.....	925.00
Net cash.....	3,514.00
Certificates of deposit.....	54.00
Total cash and certificates.....	3,568.00
<b>Court costs:</b>	
Cash received.....	115.50
Cash refunded.....	.....
Net cash.....	115.50
Certificates of deposit.....	.....
Total cash and certificates.....	115.50
<b>Aggregates.</b>	
Cash received.....	2,002,874.98
Cash refunded.....	16,445.34
Net cash.....	1,986,429.64
Certificates of deposit.....	56,398.50
Total cash and certificates.....	2,042,828.14

### EXPENDITURES.

*Amounts expended under the several appropriations from January 1 to December 31.*

	1908.	1909.
Salaries.....	\$1,073,297.31	\$1,203,613.50
Scientific library.....	1,705.60	1,626.76
International Union for Protection of Industrial Property.....	.....	656.18
Stationery.....	12,201.32	12,215.28
Postage on foreign matter.....	1,154.00	960.00
Furniture, carpets, matting, linoleum, ice, telephones, washing towels, and sundries.....	19,265.44	15,271.78
Law library.....	595.60	457.88
Photolithographing, paid contractor...	144,568.54	132,907.59
Printing and binding, for Official Gazette, indexes, printing specifications, and miscellaneous work.....	441,640.61	585,615.77
Rent for storage of models and removal of same.....	17,875.00	1,701.00
Defending suits, etc.....	.....	125.40
Total.....	1,712,303.42	1,955,151.14

### RECEIPTS AND EXPENDITURES.

Receipts from all sources.....	\$2,042,828.14
Expenditures.....	1,955,151.14
Surplus.....	87,677.00

*Surplus earnings of the Patent Office deposited in the Treasury of the United States.*

Amount of surplus January 1, 1909.....	\$6,890,725.89
Surplus for the year 1909.....	87,677.00
Net surplus January 1, 1910.....	6,978,402.89

### SUMMARY OF THE BUSINESS OF THE PATENT OFFICE.

Applications for patents for inventions.....	64,408
Applications for patents for designs.....	1,234
Applications for reissues of patents.....	197
Total.....	65,839
Caveats filed.....	1,948
Applications for registration of trade-marks.....	7,247
Applications for registration of labels.....	554
Applications for registration of prints.....	190
Disclaimers filed.....	8
Appeals on the merits.....	1,450
Total.....	11,397
Applications awaiting investigation and action by the Office, December 31, 1909.....	19,679
Patents issued, including designs.....	37,261
Patents reissued.....	160
Total.....	37,421
Trade-marks registered.....	4,184
Labels registered.....	492
Prints registered.....	148
Total.....	4,824
Patents expired during the year.....	22,661
Applications forfeited for non-payment of final fees.....	7,699
Applications allowed, awaiting final fees.....	12,748
Trade-mark applications passed for publication.....	4,517



## PATENTS ISSUED.

*Patents issued to citizens of the United States, with the ratio of population to each patent granted.*

States and Territories.	Patents and designs.	One to every—	States and Territories.	Patents and designs.	One to every—
Alabama.....	184	9,938	Ohio.....	2,538	1,638
Arkansas.....	142	9,236	Oklahoma.....	250	3,162
California.....	1,358	1,094	Oregon.....	239	1,731
Colorado.....	471	1,146	Pennsylvania.....	3,641	1,731
Connecticut.....	1,031	881	Rhode Island.....	294	1,458
Delaware.....	47	3,931	South Carolina.....	69	19,424
Florida.....	96	5,506	South Dakota.....	105	3,824
Georgia.....	265	8,364	Tennessee.....	252	8,018
Idaho.....	76	2,128	Texas.....	544	5,604
Illinois.....	3,503	1,376	Utah.....	142	1,949
Indiana.....	931	2,703	Vermont.....	66	5,207
Iowa.....	717	3,113	Virginia.....	269	6,893
Kansas.....	462	3,183	Washington.....	472	1,098
Kentucky.....	299	7,181	West Virginia.....	198	4,842
Louisiana.....	171	8,080	Wisconsin.....	796	2,599
Maine.....	148	4,692	Wyoming.....	43	2,152
Maryland.....	299	3,973			
Massachusetts.....	2,152	1,304	Alaska.....	12	5,299
Michigan.....	1,086	2,229	Arizona.....	45	2,732
Minnesota.....	639	2,741	District of Columbia.....	267	1,044
Mississippi.....	115	13,489	Hawaii.....	11	14,000
Missouri.....	1,159	2,680	New Mexico.....	40	4,883
Montana.....	96	2,535	Panama.....	6	.....
Nebraska.....	341	3,126	Philippine Islands.....	1	.....
Nevada.....	38	1,114	Porto Rico.....	3	.....
New Hampshire.....	108	3,811	United States Army.....	16	.....
New Jersey.....	1,562	1,206	United States Navy.....	16	.....
New York.....	5,232	1,389			
North Carolina.....	205	9,238	Total.....	*33,424	
North Dakota.....	153	2,086			

\*Not including 160 reissues and 25 patents withdrawn.

*Patents granted to citizens of foreign countries.*

Argentina.....	12	Germany.....	1,189	New Zealand.....	33	Sweden.....	92
Austria-Hungary.....	128	Guatemala.....	2	Norway.....	24	Switzerland.....	108
Belgium.....	56	Haiti.....	1	Peru.....	1	Tasmania.....	6
Brazil.....	1	India.....	2	Portugal.....	1	Transvaal.....	24
Bulgaria.....	1	Ireland.....	12	Queensland.....	6	Trinidad.....	1
Canada.....	490	Italy.....	60	Rhodesia.....	2	Tunis.....	1
Chile.....	4	Japan.....	16	Roumania.....	3	Turkey.....	1
China.....	1	Java.....	2	Russia.....	33	Venezuela.....	1
Colombia.....	1	Mexico.....	35	Scotland.....	64	Victoria.....	50
Cuba.....	14	Netherlands.....	23	South Australia.....	3	Western Australia.....	9
Denmark.....	39	Newfoundland.....	2	Spain.....	10		
England.....	879	New South Wales.....	25	Sumatra.....	1	Total.....	3,812
France.....	343						

The following tables present a comparative statement of the business of the Patent Office since the enactment of the statute of 1836 and exhibit in detail the business of the Office during the last calendar year:

*Comparative statement of the business of the Office from 1837 to 1909, inclusive.*

Year.	Applications.	Caveats filed.	Patents and reissues.	Cash received.	Cash expended.	Surplus.
1837.....			435	\$29,289 08	\$33,506 98	.....
1838.....			520	42,123 54	37,338 92	\$4,784 62
1839.....			425	38,019 97	34,543 51	3,476 46
1840.....	765	228	473	38,056 51	39,020 67	.....
1841.....	847	312	495	40,413 01	52,666 87	.....
1842.....	761	291	517	36,505 63	31,241 43	5,264 20
1843.....	819	315	519	35,315 81	30,776 96	4,538 85
1844.....	1,045	380	497	42,509 26	36,344 53	6,164 73
1845.....	1,246	452	503	51,076 14	39,395 65	11,680 49
1846.....	1,272	448	638	50,264 16	46,158 71	4,105 45
1847.....	1,531	533	569	63,111 19	41,878 35	21,232 84
1848.....	1,628	607	653	67,576 69	58,905 84	8,670 85
1849.....	1,955	595	1,077	80,752 78	77,716 44	3,036 34
1850.....	2,193	602	993	86,927 05	80,100 95	6,826 10
1851.....	2,258	760	872	95,738 61	86,916 93	8,821 68
1852.....	2,639	996	1,019	112,056 34	95,916 91	16,139 43
1853.....	2,673	901	961	121,527 45	132,869 83	.....
1854.....	3,324	868	1,844	163,789 84	167,146 32	.....
1855.....	4,435	906	2,013	216,459 35	179,540 33	36,919 02
1856.....	4,960	1,024	2,505	192,588 02	199,931 02	.....
1857.....	4,771	1,010	2,896	196,132 01	211,582 09	.....
1858.....	5,364	943	3,710	203,716 16	193,193 74	10,522 42
1859.....	6,225	1,079	4,538	245,942 15	210,278 41	35,663 74
1860.....	7,653	1,084	4,819	256,352 59	252,820 80	3,531 79
1861.....	4,643	700	3,340	137,354 44	221,491 91	.....
1862.....	5,038	824	3,521	215,754 99	182,810 39	32,944 06
1863.....	6,014	787	4,170	195,593 29	189,414 14	6,179 15
1864.....	6,972	1,063	5,020	240,919 98	229,868 00	11,051 98
1865.....	10,664	1,932	6,616	348,791 84	274,199 34	74,592 50
1866.....	15,269	2,723	9,450	495,665 38	361,724 28	133,941 10
1867.....	21,276	3,597	13,015	646,581 92	639,263 32	7,318 60
1868.....	20,445	3,705	13,378	681,565 86	628,679 77	52,886 09
1869.....	19,271	3,624	13,986	693,145 81	486,430 74	206,715 07
1870.....	19,171	3,273	13,321	669,456 76	557,147 19	112,309 57



## Comparative statement of the business of the Office from 1837 to 1909, inclusive—Continued.

Year.	Applica- tions.	Caveats filed.	Patents and re- issues.	Cash received.	Cash ex- pended.	Surplus.
1871.	19,472	3,366	13,033	\$678,716 46	\$562,091 64	\$116,624 82
1872.	18,246	3,090	13,590	699,726 39	665,595 00	34,131 39
1873.	20,414	3,248	12,864	703,191 77	691,178 98	12,012 79
1874.	21,602	3,181	13,599	738,278 17	679,288 41	58,989 76
1875.	21,638	3,094	14,837	743,453 36	721,657 71	21,795 65
1876.	21,425	2,697	15,595	757,987 65	652,542 60	105,445 05
1877.	20,308	2,809	14,187	732,342 85	613,152 62	119,190 23
1878.	20,260	2,755	13,444	725,375 55	593,082 89	132,292 66
1879.	20,059	2,620	13,213	703,931 47	529,638 97	174,292 50
1880.	23,012	2,490	13,947	749,685 32	538,865 17	210,820 15
1881.	26,059	2,406	16,584	853,665 89	605,173 28	248,492 61
1882.	31,522	2,553	19,267	1,009,219 45	683,867 67	325,351 78
1883.	34,576	2,741	22,383	1,146,240 00	675,234 86	471,005 14
1884.	35,600	2,582	20,413	1,075,798 80	970,579 76	105,219 04
1885.	35,717	2,552	24,233	1,188,089 15	1,024,378 85	163,710 30
1886.	35,968	2,513	22,508	1,154,551 40	992,503 45	162,047 95
1887.	35,613	2,622	21,477	1,144,509 60	994,472 22	150,037 38
1888.	35,797	2,251	20,506	1,118,516 10	973,108 78	145,407 32
1889.	40,575	2,481	24,158	1,281,728 05	1,052,955 96	228,772 09
1890.	41,048	2,311	26,292	1,340,372 66	1,099,297 74	241,074 92
1891.	40,552	2,408	23,244	1,271,285 78	1,139,713 35	131,572 43
1892.	40,753	2,290	23,559	1,286,331 88	1,110,739 24	175,592 69
1893.	38,473	2,247	23,769	1,242,871 64	1,141,038 45	101,833 19
1894.	38,439	2,286	20,867	1,187,439 58	1,100,047 12	87,392 46
1895.	40,680	2,415	22,057	1,245,246 93	1,106,389 49	138,857 44
1896.	43,982	2,271	23,373	1,324,059 83	1,113,413 71	210,646 12
1897.	47,905	2,176	23,794	1,375,641 72	1,122,843 13	252,798 59
1898.	35,842	1,659	22,267	1,137,734 48	1,136,196 20	1,538 28
1899.	41,443	1,716	25,527	1,325,457 03	1,211,783 73	113,673 30
1900.	41,980	1,731	26,499	1,350,828 53	1,260,019 62	90,808 91
1901.	46,449	1,842	27,373	1,449,398 16	1,297,385 64	152,012 52
1902.	49,641	1,851	27,886	1,552,859 08	1,393,345 54	159,513 54
1903.	50,213	1,771	31,699	1,642,201 81	1,448,645 81	193,556 00
1904.	52,143	1,808	30,934	1,657,326 53	1,476,000 38	181,326 15
1905.	54,971	1,896	30,899	1,806,753 14	1,479,633 22	327,124 92
1906.	56,482	1,885	31,965	1,790,921 38	1,554,891 20	236,030 18
1907.	58,762	1,967	36,620	1,910,618 14	1,631,458 36	279,159 78
1908.	61,475	2,110	33,682	1,896,847 67	1,712,303 42	184,544 25
1909.	65,839	1,948	37,421	2,042,828 14	1,955,151 14	87,677 00

Statement showing the number of the first patent, design patent, and reissued patent, and the number of the first certificate of registration of a trade-mark, label, and print issued in each calendar year since July 28, 1836, when the present series of numbers of letters patent commenced, together with the total number of each issued during the year.

[The number of patents granted prior to the commencement of this series of numbering (July 28, 1836) was 9,957.]

Calendar year.	Number of first patent and certificate issued in each calendar year.						Number of patents and certificates of registration issued during each calendar year.							
	Patents.	Designs.	Reissues.	Trade-Marks.	Labels.	Prints.	Patents.	Designs.	Reissues.	Total patents.	Trade-Marks.	Labels.	Prints.	Total certifi- cates.
1836 (July 28)	1						109							
1837	110						436							
1838	546						515							
1839	1,061						404							
1840	1,465						458							
1841	1,923						490							
1842	2,413						488							
1843	2,901						494							
1844	3,395						478							
1845	3,873						475							
1846	4,348						566							
1847	4,914						495							
1848	5,409						584							
1849	5,993						988							
1850	6,981						884							
1851	7,865						757							
1852	8,622						890							
1853	9,512						846							
1854	10,358						1,759							
1855	12,117						1,892							
1856	14,009						2,315							
1857	16,324						2,686							
1858	19,010						3,467							
1859	22,477						4,165							
1860	26,642						4,363							
1861	31,005						3,040							
1862	34,045						3,221							
1863	37,266						3,781							
1864	41,047						4,638							
1865	45,685						6,099							
1866	51,784						8,874							
1867	60,658						12,301							
1868	72,959						12,544							
1869	85,503						12,957							
1870	98,460						12,157							
1871	110,617						11,687							
1872	122,304						12,200							
1873	134,504						11,616							



## Statement showing the number of the first patent, design patent, and reissued patent, etc.—Continued.

Calendar year.	Number of first patent and certificate issued in each calendar year.						Number of patents and certificates of registration issued during each calendar year.							
	Patents.	Designs.	Reissues.	Trade-Marks.	Labels.	Prints.	Patents.	Designs.	Reissues.	Total patents.	Trade-Marks.	Labels.	Prints.	Total certificates.
1874.....	146,120	7,083	5,717	1,591	1	First Print registered Mar. 7, 1893.	12,230	886	483	13,599	559	232		791
1875.....	158,350	7,969	6,200	2,150	233		13,291	915	631	14,837	1,138	232		1,370
1876.....	171,641	8,884	6,831	3,283	465		14,172	892	621	15,595	959	472		1,431
1877.....	185,813	9,686	7,452	4,247	937		12,920	699	568	14,187	1,216	392		1,608
1878.....	198,733	10,385	8,020	5,463	1,329		12,345	590	509	13,444	1,455	492		1,947
1879.....	211,078	10,975	8,529	6,918	1,821		12,133	592	488	13,213	872	355		1,227
1880.....	223,211	11,567	9,017	7,790	2,176		12,926	515	506	13,947	349	203		552
1881.....	336,137	12,082	9,523	8,139	2,379		15,548	565	471	16,584	834	202		1,036
1882.....	251,685	12,647	9,994	8,973	2,581		18,135	861	271	19,267	947	304		1,251
1883.....	269,820	13,508	10,265	9,920	2,885		21,196	1,020	167	22,383	902	906		1,808
1884.....	291,016	14,528	10,432	10,822	3,791		19,147	1,150	116	20,413	1,021	513		1,534
1885.....	310,163	15,678	10,548	11,843	4,304		23,331	773	129	24,233	1,067	391		1,458
1886.....	333,494	16,451	10,677	12,910	4,695		21,797	595	116	22,508	1,029	378		1,407
1887.....	355,291	17,046	10,793	13,939	5,073		20,429	949	99	21,477	1,133	339		1,513
1888.....	375,720	17,995	10,892	15,072	5,453		19,585	835	86	20,506	1,059	327		1,386
1889.....	395,305	18,830	10,978	16,131	5,780		23,360	723	75	24,158	1,229	319		1,548
1890.....	418,665	19,553	11,053	17,360	6,099		25,322	886	84	26,292	1,415	304		1,719
1891.....	443,987	20,439	11,137	18,775	6,403		22,328	836	80	23,244	1,762	137		1,899
1892.....	466,315	21,275	11,217	20,537	6,540		22,661	817	81	23,559	1,737	a 6		1,743
1893.....	488,976	22,092	11,298	22,274	None.	22,768	902	99	23,769	1,677	None.	2	1,679	
1894.....	511,744	22,994	11,397	23,951	Do.	19,875	928	64	20,857	1,806	Do.	4	1,810	
1895.....	531,619	23,922	11,461	25,757	Do.	20,883	1,115	59	22,057	1,829	Do.	8	1,832	
1896.....	552,502	25,037	11,520	27,586	6,546	10	21,867	1,445	61	23,273	1,813		1	1,846
1897.....	574,369	26,482	11,581	29,399	6,547	42	22,098	1,631	65	23,794	1,671	14	16	1,701
1898.....	596,467	28,113	11,646	31,070	6,561	58	20,404	1,803	60	22,267	1,238		200	1,473
1899.....	616,871	29,916	11,706	32,308	6,761	93	23,296	2,139	92	25,527	1,649	511	100	2,260
1900.....	640,167	32,055	11,798	33,957	7,272	193	24,660	1,758	81	26,499	1,721		737	102
1901.....	664,827	33,813	11,879	35,678	8,009	286	25,558	1,734	81	27,373	1,928	878	159	2,985
1902.....	690,385	35,547	11,960	37,606	8,887	445	27,136	640	110	27,886	2,006	767	158	3,091
1903.....	717,521	36,187	12,070	39,612	9,654	603	31,046	536	117	31,699	2,186	990	270	3,469
1904.....	748,567	36,723	12,189	41,798	10,644	873	30,267	557	110	30,934	2,158	1,114	297	3,569
1905.....	778,834	37,280	12,299	43,956	11,758	1,170	29,784	486	129	30,399	4,490		830	359
1906.....	808,618	37,766	12,428	43,446	12,588	1,529	31,181	625	159	31,965	10,568		709	656
1907.....	839,799	38,391	12,587	50,014	13,297	1,874	35,880	589	151	36,620	7,878	667	315	8,860
1908.....	875,679	38,980	12,738	66,892	13,964	2,189	32,757	757	168	33,682	5,191	618	220	6,029
1909.....	908,436	39,737	12,906	72,083	14,582	2,409	36,574	687	160	37,421	4,184	492	148	4,824

\* Registration of labels practically suspended May 27, 1891, under decision of the United States Supreme Court in *Higgins et al. v. Keuffel et al.*, (55 O. G., 1139,) with the registration of No. 6,545, June 14, 1892. Resumed June 9, 1896, with the registration of No. 6,546.

## Expenditures for photolithographic and photographic work since 1906-1907.

Fiscal year.	Contractor.	Price per page.				Total.
		Current issue.	Reproduction of exhausted copies.	Library edition.	Photographic copies.	
1906-1907.....	Norris Peters Co.....	{ a \$0 80 b 65 }	{ c \$0 57 d 85 }			\$140,000 00
	Norris Peters Co.....					
	A. B. Graham Co.....			e \$1 22		
	E. L. Parker.....				{ f \$0 08 g 13 }	
1907-1908.....	Norris Peters Co.....	{ a 77 b 64 }	{ c 50 d 67 }			140,000 00
	J. A. Eckert.....					
	Columbia Planograph Co.....			e 1 15		
	H. A. Farnham.....				{ h 09 g 13 }	
1908-1909.....	Norris Peters Co.....	{ a 71½ b 57½ }				140,000 00
	Sackett & Wilhelms Co.....		{ Spec. 42½ c 53 d 53 c 43½ d 55 }			
	Columbia Planograph Co.....			e 98		
	F. W. Ernst.....				h 12	
1909-1910.....	C. Parker.....				g 16	140,000 00
	A. B. Graham Co.....	a 74				
	A. B. Graham Co.....			e 1 00		
	Norris Peters Co.....	b 61				
	Sackett & Wilhelms Co.....		{ c 44½ d 57 }			
	F. W. Ernst.....				h 12	
	Leet Brothers.....				g 15	

a For 100 thin, 2 thick, and 1 bond copies.

b For 50 thin, 2 thick, and 1 bond copies of trade-marks and designs.

c For 50 copies each, mechanical and design patents and trade-marks.

d For 100 copies each, mechanical and design patents and trade-marks.

e For 150 copies.

h Size, 8 x 12½ in.

i Estimated.

f Size, 7 x 11 in.

g Size, 10 x 15 in.

*Number of patents issued by the United States and foreign countries from the earliest period to December 31, 1909.*

[Foreign figures for 1909 estimated.]

Country.	To 1870, inclu- sive.	1871 to 1909.	Total.	Country.	To 1870, inclu- sive.	1871 to 1909.	Total.
Argentina.....	83	7,974	8,057	Luxembourg.....		8,228	8,228
Australia.....		7,023	7,023	Malta.....		79	79
Austria.....		59,132	59,132	Mauritius.....	113	273	386
Austria-Hungary.....	15,350	67,583	82,933	Mexico.....	22	9,205	9,227
Bahamas.....		2	2	Netherlands.....	4,535		4,535
Barbados.....		148	148	Newfoundland.....	40	406	446
Belgium.....	35,044	192,204	227,248	New South Wales.....	236	11,740	11,976
Bolivia.....	42	65	107	New Zealand.....	109	12,931	13,040
Brazil.....	185	6,589	6,774	Norway.....	737	20,257	20,994
British Guiana.....	32	94	126	Paraguay.....		83	83
British Honduras.....	1	19	20	Peru.....		160	160
Canada.....	4,081	121,819	125,900	Portugal.....	245	6,253	6,498
Ceylon.....	58	689	747	Queensland.....	67	6,368	6,435
Chile.....	266	1,788	2,054	Russia.....	1,464	21,479	22,943
Colombia.....		1,001	1,001	St. Helena.....		4	4
Congo Free State.....		214	214	South African Republics.....		1,262	1,262
Costa Rica.....		58	58	South Australia.....	123	6,221	6,344
Cuba.....		860	860	Spain.....		42,622	42,622
Denmark.....	464	19,602	20,066	Straits Settlements.....		229	229
Ecuador.....		10	10	Sweden.....	1,629	29,927	31,556
Fiji Islands.....		39	39	Switzerland.....		46,445	46,445
Finland.....	112	3,680	3,792	Tasmania.....	43	2,426	2,469
France.....	103,934	321,145	425,079	Transvaal.....		2,243	2,243
Germany.....	9,996	225,638	235,638	Trinidad.....	6	191	197
Great Britain.....	53,408	360,775	414,183	Tunis.....		699	699
Guatemala.....		57	57	Turkey.....		1,840	1,840
Hawaii.....		148	148	Uruguay.....		360	360
Hongkong.....		173	173	Venezuela.....		226	226
Hungary.....		42,814	42,814	Victoria.....	822	12,463	13,285
India.....	445	10,156	10,601	Western Australia.....		3,524	3,524
Italy and Sardinia.....	4,723	88,819	93,542				
Jamaica.....	22	211	233	Total foreign.....	238,437	1,806,330	2,044,767
Japan.....		17,637	17,637	United States.....	120,573	834,393	* 954,966
Leeward Islands.....		23	23				
Liberia.....		2	2	Grand total.....	359,010	2,640,723	2,999,733

\* Including 9,957 patents issued prior to July 1, 1836.

The following comparison between the receipts, expenditures, applications filed, issues of the Office, the printed copies sold, copies of records furnished, and the number of employees for the years ended, respectively, December 31, 1899, and December 31, 1909, illustrates the growth of the business of the Patent Office:

Class.	1899.	1909.	Increase.	Percentage of increase.
Receipts.....	\$1,325,457.03	\$2,042,828.14	\$717,371.11	54.1
Expenditures.....	\$1,211,783.73	\$1,955,151.14	\$743,367.41	61.3
Applications and caveats filed.....	45,990	75,778	29,788	64.7
Letters patent, design and reissue patents granted, and trade-marks, labels, and prints registered.....	27,787	42,245	14,458	52.0
Printed copies of patents sold.....	1,451,519	2,059,521	608,002	41.8
Price received.....	\$50,201.11	\$102,976.05	\$52,774.94	105.1
Words written in copies of records furnished.....	13,575,650	25,801,300	12,225,650	90.0
Number of employees.....	663	909	246	37.1

In 1909 there were received 64,408 applications for mechanical patents, 1,234 applications for design patents, 197 applications for reissues of patents, 7,247 applications for registration of trade-marks, 554 applications for registration of labels, and 190 applications for registration of prints. There were 37,261 patents issued, including designs, 160 patents reissued, and 4,184 trade-marks, 492 labels, and 148 prints registered. The number of patents that expired was 22,661. The number of allowed applications awaiting the payment of final fees was 12,748, and the number forfeited for non-payment of the final fees 7,699. The total receipts were \$2,042,828.14, the expenditures \$1,955,151.14, and the surplus of receipts over expenditures \$87,677.00. The total balance to the credit of the Patent Office in the Treasury of the United States on January 1, 1910, was \$6,973,402.89.

In proportion to population more patents were issued to citizens of Connecticut than to those of any

other State—1 to every 881. Next in order are the following: District of Columbia, 1 to every 1,044; California, 1 to every 1,094; Washington, 1 to every 1,098; Nevada, 1 to every 1,114; Colorado, 1 to every 1,146; New Jersey, 1 to every 1,206; Massachusetts, 1 to every 1,304; Illinois, 1 to every 1,376; New York, 1 to every 1,389; Rhode Island, 1 to every 1,458; Ohio, 1 to every 1,638; Oregon, 1 to every 1,731; Pennsylvania, 1 to every 1,731; Utah, 1 to every 1,949; North Dakota, 1 to every 2,036; Idaho, 1 to every 2,128; Wyoming, 1 to every 2,152; Michigan, 1 to every 2,229; Montana, 1 to every 2,535; Wisconsin, 1 to every 2,599; Missouri, 1 to every 2,680; Indiana, 1 to every 2,703; Arizona, 1 to every 2,732; Minnesota, 1 to every 2,741; Iowa, 1 to every 3,113; Nebraska, 1 to every 3,126; Oklahoma, 1 to every 3,162; Kansas, 1 to every 3,183; New Hampshire, 1 to every 3,811; South Dakota, 1 to every 3,824; Delaware, 1 to every 3,931; Maryland, 1 to every 3,973; Maine, 1 to every 4,692; West Virginia,



1 to every 4,842; New Mexico, 1 to every 4,883; Vermont, 1 to every 5,207; Alaska, 1 to every 5,299; Florida, 1 to every 5,506; Texas, 1 to every 5,604; Virginia, 1 to every 6,893; Kentucky, 1 to every 7,181; Tennessee, 1 to every 8,018; Louisiana, 1 to every 8,080; Georgia, 1 to every 8,364; Arkansas, 1 to every 9,236; North Carolina, 1 to every 9,238; Alabama, 1 to every 9,938. The fewest patents granted in proportion to the number of inhabitants were in the following States and Territory: South Carolina, 1 to every 19,424; Hawaii, 1 to every 14,000, and Mississippi, 1 to every 13,489.

As to foreign patents, 1,189 were granted to citizens of Germany; 879 to those of England; 490 to those of Canada; 343 to those of France; 128 to those of Austria-Hungary; 108 to those of Switzerland; 92 to those of Sweden; 64 to those of Scotland; 60 to those of Italy; 56 to those of Belgium; 50 to those of Victoria; 39 to those of Denmark; 35 to those of Mexico; 33 each to those of New Zealand and Russia; 25 to those of New South Wales; 24 each to those of Norway and Transvaal; 23 to those of the Netherlands; 16 to those of Japan; 14 to those of Cuba; 12 each to those of Argentina and Ireland; 10 to those of Spain; 9 to those of Western Australia; 6 each to those of Queensland and Tasmania; 4 to those of Cape Colony; 3 each to those of Roumania and South Australia; 2 each to those of Guatemala, India, Java, Newfoundland, and Rhodesia, and 1 each to those of Brazil, Bulgaria, Chile, Colombia, Haiti, Peru, Portugal, Sumatra, Trinidad, Tunis, Turkey, and Venezuela.

#### SATISFACTORY CONDITIONS IN THE PATENT OFFICE.

I am very much gratified to be able to report to the Congress that the present conditions in the United States Patent Office are quite satisfactory by reason of the reorganization accomplished in certain directions, the increase of force, increase of salaries, and additional room. The increase in salaries especially has enabled the present administration of the Bureau to retain a much larger percentage of the technically-educated employees.

The work in the various branches of the Office has been made current; but owing to the great volume of business now coming into the Bureau, consisting of increases in the number of applications for patents, designs, trade-marks, labels, and prints, and the great need for expediting the classification of domestic and foreign patents, as well as the material in the 40,000 volumes in the Scientific Library, has compelled me to ask for an increase in force in the examining branch of the Office.

#### CLASSIFICATION OF PATENTS.

It is of the utmost importance that this vast material through which the Examiners have to search in passing upon applications of inventors be classified at the earliest possible date.

A classification division has been established, with a working force of ten Examiners; but this number of men engaged upon this work is wholly inadequate to make much headway in the classifica-

tion of this material, which has been accumulating from year to year for nearly a century.

Therefore the force for this work should be at least doubled during the present session of Congress in order to more speedily complete this great task. When the classification will have been finished, examination as to novelty of inventions will be greatly simplified, both for the work of the Examiners and the inventors, who make searches as to novelty. It will also result in expediting the work of the issuance of patents, but, what is vastly more important, there will attach to patents granted a greater degree of validity than they have at present, owing to the incomplete searches which must inevitably follow by reason of this great mass of material being undigested.

It is the main purpose of the present administration of the Patent Office to expedite the examination of all applications presented—to issue patents whose novelty, if not validity, can in time be guaranteed by the Government. This will do away with the large amount of litigation which now devolves upon the inventors by being drawn into suits for infringements and interferences and will nearly obviate the necessity for litigation as to novelty within the Patent Office and the courts.

The number of United States patents granted to date is 954,966, which number is increasing at the rate of between thirty-five and forty thousand patents a year. The foreign patents granted by all countries number over 2,000,000. The Scientific Library contains between forty and fifty thousand volumes of reference material which is used in the examination of applications for patents. About forty-two per cent. of the United States patents have been classified, and it is to be hoped that a sufficient force will be provided at this session of Congress to classify and adjust this material at the earliest practicable date.

#### INTERNATIONAL CONGRESS FOR THE PROTECTION OF INDUSTRIAL PROPERTY.

The official International Congress for the Protection of Industrial Property was invited by the President of the United States to hold its next congress in the city of Washington in May, 1910. An appropriation of \$10,000 was made at the first session of the present Congress to defray the expense of this gathering.

In communicating with the International Bureau at Berne, Switzerland, it was learned from the Director of said Bureau that there would not be sufficient time for the various nations participating—some thirty-five in number—to prepare material to be considered by this congress, and upon the recommendation of the Commissioner of Patents the Department of State has changed the date of assembling to May 21, 1911.

This congress will be composed of delegates representing the foreign nations; and whose credentials will empower them to enact and sign any measure that shall be passed by said congress, subject, however, to the subsequent approval of their respective

governments. The meetings of this congress will probably be the most important in its history. Able and experienced delegates, mostly officials of the various nations, will be appointed, who will discuss and act upon measures to bring about international concessions and agreements in patent and trademark laws, thereby harmonizing the laws of various countries, which laws are at the present time widely at variance, so much so in fact that it is almost impossible for inventors and manufacturers to do business with any degree of satisfaction in the various countries.

#### TREATIES WITH FOREIGN COUNTRIES RELATING TO INDUSTRIAL PROPERTY.

Negotiations are now pending between the United States and foreign countries looking to conventions being entered into by the various countries for the elimination of the so-called "working clause" in all patent laws.

A treaty of this kind has recently been negotiated with Germany and is now in force. Also the working clause in the patent laws of Sweden and Switzerland have recently been eliminated. It is to be hoped that in the near future the laws of all foreign countries now embracing this so-called "working clause" will be so modified that its provisions will be entirely eliminated. The abolishing of that feature of the patent laws of these countries will have a great tendency to "promote the progress of science and the useful arts, by securing for a limited time to authors and inventors the exclusive right to their respective writings and discoveries."

#### ADDITIONAL LEGISLATION REQUIRED.

##### *Board of Patent Appeals.*

I desire to repeat the recommendation made in my report to Congress for the year ended December 31, 1908, in reference to the enactment of proposed legislation to effect the elimination of one of the appeals in this Office.

In my report to the Secretary of the Interior for the fiscal year ended June 30, 1909, I called his attention to the need of this legislation and gave my reasons therefor.

The Secretary of the Interior approved these recommendations in his report to the President. He said:

In respect to needed legislation pertaining to patent matters, I refer to and indorse the suggestions of the Commissioner of Patents in his annual report for the year ending June 30, 1909, directing particular attention to the recommendation for the enactment of a law which would eliminate one appeal in the Patent Office, and thus diminish materially the expense and time now required in obtaining a final adjudication.

Bills have been introduced into the Senate and House of Representatives, respectively, entitled S. 5636 and H. R. 18885, which provide for the elimination of one of the three appeals now allowed by law to applicants for patents and to parties in interference cases.

A bill containing substantially the same provisions as these bills was passed by the Senate during the Sixtieth Congress; but no action was taken thereon by the House of Representatives. The pur-

pose of the proposed amendments to the statute is to shorten the course of prosecution of an application in the Patent Office by the elimination of one of the appeals within the Office. This is designed to be accomplished by combining the Commissioner, the First Assistant Commissioner, the Assistant Commissioner, and the Examiners-in-Chief into a single appellate tribunal, any three of whom shall constitute a quorum, to which all appeals shall lie, whether from the Primary Examiner or from the Examiner of Interferences, and from which appeals would lie to the Court of Appeals of the District of Columbia.

Under the present patent law appeal lies in *ex parte* cases from the Primary Examiner to the Board of Examiners-in-Chief, then to the Commissioner, (the First Assistant Commissioner or the Assistant Commissioner,) and from his decision to the Court of Appeals of the District of Columbia, and in interference cases the course of appeals from the decisions of the Examiner of Interferences is the same, there being three appeals in each case.

The present course of appeals is not well adapted to the volume of business which the Office is now called upon to handle, for the following reasons:

1. It imposes on applicants an unnecessary amount of delay and expense. The very purpose of the patent system is to place at the service of the public at as early a date as practicable inventions as they are made, and unnecessary delays affect not only the applicants, but all interested in the industries to which the inventions relate. One appeal within this Office, together with the appeal to the Court of Appeals of the District of Columbia, would seem to be ample, especially in view of the fact that in a suit on a patent a single appeal takes the case from the trial court to the court of appeals. The elimination of one appeal would materially shorten the time required to ultimately dispose of appeal cases and effect a considerable saving of expense to the applicants.

2. Section 4910 provides for an appeal to the Commissioner *in person* from the Board of Examiners-in-Chief. The work of the Office and the consequent number of appeals have increased to such an extent that it has become difficult and will soon be impossible for the Commissioner to give to each case the amount of personal attention proper to its disposal.

3. The Board of Examiners-in-Chief as at present constituted consists of three members, and no provision is made under the present law to supply a temporary vacancy caused by sickness or absence from other cause of any of the members. The absence of one member often results in an evenly-divided Board, with the consequent necessity for rehearing, and the absence of two members causes an entire suspension of business. With the proposed appellate board the presence of a quorum of three would be practically assured at all times, which has not been the case in numerous instances in the past owing to frequent absences of a member of the Board on account of periods of illness of greater or less duration and also by reason of annual leave



and other causes. The work of this tribunal has so greatly increased during the last few years that it is almost impossible for its members to give the thorough joint consideration to each case which it deserves.

These changes in the course of appeals would not only have the effect of expediting the prosecution of applications on appeal, but the elimination of an appeal would be a saving to the inventors of one appeal fee, the attorneys' fees, and other expenses incident thereto. Furthermore, having but one appeal in the Office in lieu of two would result in giving greater stability to the decisions of the Office tribunals and would also obviate any want of comity that has at times existed in the past between the decisions of the Commissioner of Patents and the Assistant Commissioners. These proposed changes in the law in no wise affect the present legal status of the Commissioner of Patents, the First Assistant Commissioner, the Assistant Commissioner, or the Examiners-in-Chief.

The amendments proposed to the various sections of the statutes relating to appeals within this Office do not change the substance of the law. An examination of the bill in comparison with the present statutes will show that these amendments are very few, and I think it can be stated without question that the elimination of one of the appeals within this Office as now provided by law is now admitted to be desirable by every one who has any knowledge of the procedure required of an applicant or a party to an interference before he can obtain a final decision in his case. The proposed bill has the approval of many practitioners of standing before the Patent Office. One of the most important results which will be obtained by the enactment of this proposed legislation is that it will cause a patent granted by the Office to have a greater degree of validity. This result will follow from the fact that under existing conditions the decisions of the Examiners-in-Chief are not considered as precedents by either the Examiner of Interferences or any one of the forty-two Primary Examiners, and properly so, for they are in no wise final decisions and are not published. It would not be proper to publish them, for they belong to the secret archives of the Office, as much as the applications for patents which are considered by the Board. The decisions of the Examiners-in-Chief are respected only in so far as they affect the particular case determined by them. By raising the dignity of the Examiners-in-Chief, so as to give them seats on a tribunal of which the Commissioner, the First Assistant Commissioner, and the Assistant Commissioner are also members, and by providing that as so constituted it will be the tribunal of last resort in the Patent Office its decisions will be regarded as precedents and be respected as such by the Examiners and practitioners before the Office. In other words, the decisions of the board of appeals contemplated by the present act will have the same weight as those now rendered by the Commissioner in person. I most earnestly recommend that these bills be enacted into law in view of the following facts:

1. The great saving of time and labor to the tribunals of the Patent Office. Under the present system the work is done twice, to no good effect.

2. It is the practically unanimous opinion of inventors and manufacturers throughout the country that one appeal should be eliminated in the Patent Office, in order to save the great cost and loss of time now involved in obtaining a final adjudication and consequent grant of patent.

3. The fact that no general protest has been lodged and no effective arguments have been made against the passage of the bill.

4. Scientific journals have favorably commented upon this measure by editorials, and no protests or objections have been made.

5. The practice of the Office will be made more stable, and the patents granted will be better patents and have a greater degree of validity.

The establishment of a board of appeals in the Patent Office in accordance with the measure now before Congress will enable the Patent Office to more effectually dispose of the questions presented and much more thoroughly and expeditiously than is done now, without additional cost to the Government.

The following statement shows the judicial business of the Office for the calendar year ended December 31, 1909. There is also a statement of the appeals taken from the decisions of the Commissioner to the Court of Appeals of the District of Columbia.

Decisions of the Examiner of Interferences on priority in interference cases-----	243
Appeals to the Examiners-in-Chief in interference cases-----	220
<i>Ex parte</i> appeals to Examiners-in-Chief-----	782
	<u>1,002</u>
Appeals to Commissioner in interference cases-----	127
Appeals to Commissioner in opposition cases-----	11
Appeals to Commissioner in cancellation cases-----	7
<i>Ex parte</i> appeals to Commissioner-----	99
Interlocutory appeals to Commissioner-----	169
<i>Ex parte</i> appeals in trade-mark cases-----	61
	<u>474</u>
Petitions to Commissioner-----	2,298
	<u>2,772</u>
Appeals to Court of Appeals, District of Columbia:	
<i>Ex parte</i> cases-----	13
Interference cases-----	46
Opposition cases-----	7
Cancellation cases-----	2
	<u>68</u>

#### Patent Bar.

I also wish to call attention to the necessity for legislation which would result in the establishment of a patent bar. It is suggested that a law be enacted providing that before an individual or firm is permitted to practice before the United States Patent Office the applicant shall be required to first pass an examination as to moral, legal, and technical qualifications; that a committee shall be appointed by the Commissioner of Patents, composed of officials of the Patent Office and patent attorneys of well-known standing in the profession, who shall conduct the examinations, under the direction of the Commissioner of Patents, and the report of such committee shall be subject to his approval.

I also respectfully urge the enactment into law of the following bills:

Senate Bill No. 5634 and H. R. Bill No. 18887, authorizing the Commissioner of Patents to issue certificates of correction to Letters Patent. These certificates are now issued under the rules of practice; but objection has sometimes been made to them in the courts on the ground that they are not specifically authorized by law. It sometimes happens that a patent in the course of its printing by the Government Printing Office does not conform in all respects with the records and files of the Patent Office. This bill authorizes the Commissioner of Patents to issue a certificate of correction whenever, in his opinion, a patent as issued does not conform with the records and files of the Patent Office.

A bill to amend section 4894, Revised Statutes, (Senate Bill No. 5635, H. R. Bill No. 18884.) This bill is to shorten the time within which an applicant may prosecute his application from one year, as now provided by law, to six months. A grave objection to the time now allowed is that applications are permitted by skilful practitioners to remain a long time in the Patent Office. This is effected by presenting amendments which sufficiently respond to the Office action to necessitate their entry and consideration; but they are not such complete actions as to justify the allowance of the application. It is in the interest of the public that a patent should be granted with as little delay as possible after the application has been filed in the Patent Office. Moreover, under the present law when an amendment is filed late in the year allowed for an action the work on the application in question is seriously delayed, for the reason that the Examiner is called upon to act in many cases during that year and in the nature of things does not retain the subject-matter of the application in mind for that period. The work of examination therefore has to be done again. This results in causing congestion of work throughout the whole Patent Office.

No real hardship will accrue to the inventor, for if a longer time is necessary in which to prosecute an application the same statute gives the Commissioner of Patents authority to excuse the delay upon a satisfactory showing.

A bill to amend section 4889, Revised Statutes, (Senate Bill No. 5632, H. R. Bill No. 18886.) This bill requires the filing of two photographs of the drawings as a part of the application for patent. It is believed that this requirement is necessary in order to prevent, or rather to detect, any unauthorized tampering with the application after it has been filed.

Certain changes in phraseology of the statute are provided by the proposed bill. The essential provision is that there shall be required to be filed with the application for patent, in addition to the drawing, two photographic copies of such drawing. The additional expense to the inventor probably would not exceed twenty-five cents in the great majority of cases. The provision, however, is for

the protection of the honest inventor against fraud, and the small additional cost is therefore believed to be justified. For many years past it has been regarded as desirable that applicants filing applications for patent should accompany the same with photographic copies of the drawings. It has been the opinion of my predecessors in office. The late Commissioner Butterworth issued an order to this effect, but subsequently revoked it, as he could not legally enforce it without statutory authority.

A bill to amend sections 4917 and 4893, Revised Statutes, (Senate Bill No. 5633, H. R. Bill No. 18888.) It is recommended that these statutes be amended merely so as to change the word "claimant" to the word *patentee*. The word "claimant" is, in my opinion, not the proper word to use in this instance. In all other statutes relating to patents the inventor is uniformly referred to as the applicant or patentee. These two statutes are the only ones using the word "claimant." This amendment therefore will bring this statute in conformity with the other statutes relating to patents.

An application for patent is not a claim against the Government, and it should not be designated as such in the statute. The inventor, having created something new, offers by his application to fully disclose his invention at once and give it to the public at the end of seventeen years, provided the United States will allow him to have exclusive possession thereof in the meantime and that he be given the right to bring suit in the Federal courts against infringers during that period of seventeen years. In granting a patent to an inventor the Government is not parting with anything possessed by it prior to the applicant's disclosure. If the inventor chooses not to disclose the invention, but to practice it in secret, the public is the loser.

#### *Repeal of Law Relating to Caveats.*

I also recommend the repeal of section 4902, Revised Statutes, which provides for the filing of caveats in the Patent Office. A caveat is effective for one year, and a fee of ten dollars is charged therefor. No real protection is afforded the inventor. It merely insures notice being given to the caveator of the filing of an application for a patent by another for the same invention during the life of the caveat. It is known that many inventors are led to believe that a caveat offers some protection against infringement, which it does not.

The filing of an application for patent and payment of first fee of fifteen dollars insures an inventor not only all the benefits which he receives by the filing of a caveat, but much more, inasmuch as on the filing of an application for a patent he is placed in interference with any other patent not granted more than two years prior thereto and with any other application for patent which may be on file in the Office or which may thereafter be filed.

#### *The Court of Patent Appeals.*

The efforts of the American Bar Association to establish a court of patent appeals meets my hearti-



est approval. Legislation to accomplish this end should, in my opinion, become law at the earliest practical moment. A patent is granted by the Government which is effective throughout the United States and Territories. When this patent, however, is involved in a suit which is brought in any judicial district, the final decision, on appeal, is rendered by the circuit court of appeals of that jurisdiction. A decision involving the construction of a patent by the circuit court of appeals of one jurisdiction is effective only for that jurisdiction and has no legal effect in any other of the several circuits, except through comity. There have been in the past decisions rendered by several circuit courts of appeals which are directly opposed to each other. In view of the fact that a patent, when issued, is effective in all the States and Territories it is very clear that there should be one court of patent appeals whose decisions will control the status of that patent throughout the entire country. The importance of this is evident when it is considered that there are nine circuit courts of appeals and one Court of Appeals of the District of Columbia, and each of which may and often does entertain in some particular a different view from the others with regard to the same patent.

#### NEW BUILDING.

I desire again to invite the attention of the Congress to the great need of a new and more commodious building to house the Patent Office. The present quarters provided are wholly inadequate. The volume of business of the Bureau increases each year, as will be clearly shown by the table embraced in the report giving the increases since the law of 1836 was passed.

The Patent Office has been more than self-supporting since its creation. The inventors pay for its maintenance, and not a dollar comes from the general tax revenues of the country. The surplus of receipts over expenditures each year is absolutely

a net surplus, after deducting salaries and every item of expense that is charged to the Bureau.

The net surplus of all years covered into the Treasury on December 31, 1909, is \$6,978,402.89. It is strongly urged that this sum or so much thereof as may be necessary will be used for providing a new building in which ample room will be afforded to properly and promptly transact the business of the inventors, for which they more than pay the total cost.

The sum represents the net earnings of the Patent Office, and it is due to the inventors of this country that the money should be utilized for the purposes of providing suitable facilities for expediting the work of the Patent Office. It is necessary that patents for new inventions should be issued with the utmost promptness after the application for patent has been filed, for such inventions form the basis of vast industries, which inure not merely to the profit of the inventor, but the benefit of the manufacturer, the laborer, the trader, the professional man, and the consumer, and to the commercial interests of the country in general.

Great Britain and Germany have each recognized the necessity for providing ample facilities for the work of their patent offices and have each recently erected new buildings for their patent offices which are in every way more commodious and better adapted to the business of a patent office than the building which now houses the United States Patent Office, although the patent business of either of those countries is but a small fraction compared with that transacted in the United States Patent Office.

If I may be permitted, I would suggest the passage at this session of the bill introduced by Senator Daniel on April 15, 1909, (S. 1629.) The structure and location meet my full approval.

Respectfully submitted.

EDWARD B. MOORE,  
*Commissioner of Patents.*

# ALPHABETICAL LIST

OF

## PATENTEES FOR THE YEAR 1909.

[Patentees of Designs, Trade-Marks, Labels, and Prints, and parties who have filed Disclaimers follow this in separate indexes, but precede the Alphabetical List of Inventions.]

[Abbreviations: "Sp."=Monthly Volume of Specifications; "Gaz."=Official Gazette.]

- A. Geo. Schulz Co. (See Wade, F. M., assignor.)  
A. Leschen & Sons Rope Company. (See Riblet, B. C., assignor.)  
A. Schrader's Son. (See Neubert, A., assignor.)  
A. A. Vantine & Co. (See Rock, A. L., assignor.)  
A. B. Dick Company. (See Dick, A. B., assignor.)  
A. B. Farquhar Company, Limited. (See Eisenhart, H. W., assignor.)  
A. B. Farquhar Company. (See Hallock, D. Y. and D. E., assignors.)  
A. B. C. Candy Company. (See McDonald and Hopson, assignors.)  
A. B. C. Train Operating Company. (See Beamer, A., assignor.)  
A. E. Martell Company. (See Curry and Coppage, assignors.)  
A. F. Meisselbach & Brother. (See Meisselbach and Catucci, assignors.)  
A. G. Cox Mfg. Co. (See Cox, A. G., assignor.)  
A. G. Spalding & Bros. (See Bolton, J. R., assignor.)  
A. G. Spalding & Bros. (See Breakspear, F. C., assignor.)  
A. G. Spalding & Bros. (See Hellawell, R. J., assignor.)  
A. G. Spalding & Bros. (See Nuttall, J., assignor.)  
A. G. Spalding & Bros. (See Pierce and Nickerson, assignors.)  
A. G. Spalding & Bros. (See Reach, M. B., assignor.)  
A. G. Spalding & Bros. (See Rigden, F. E., assignor.)  
A. G. Spalding & Bros. Manufacturing Co. (See Reach, M. B., assignor.)  
A. H. Andrews Company. (See Hanlon, F. J., assignor.)  
A. H. Bliss Company. (See Bliss, A. H., assignor.)  
A. H. Fox Gun Company. (See Fox and Horne, assignors.)  
A. H. Light Engineering Company. (See Light, A. H., assignor.)  
A. J. Deer Co. (See Bartz, F., assignor.)  
A. L. Barber Asphalt Company. (See Barber, A. L., assignor.)  
A. O. Smith Company. (See Westmore, H. G., assignor.)  
A. R. Milner Seating Co. (See Milner, A. R., assignor.)  
Aab, W., assignor of one-half to W. F. Laudenschlager, New Ulm, Minn. Transfer mechanism for carrier systems. No. 933,354; Sept. 7; Sp. p. 720; Gaz. vol. 146; p. 112.  
Aagaard, A., Elgin, Ill. Knife, fork, and spoon kit. No. 920,235; May 4; Sp. p. 290; Gaz. vol. 142; p. 47.  
Aalborg, C. (See Jackson and Aalborg.)  
Aalborg, C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric heating device. No. 912,985; Feb. 23; Sp. p. 4063; Gaz. vol. 139; p. 737.  
Aalborg, C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley hanger and clamp. No. 931,366; Aug. 17; Sp. p. 3698; Gaz. vol. 145; p. 638.  
Aalborg, C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Hanger and clamp for wires and cables. No. 931,367; Aug. 17; Sp. p. 3699; Gaz. vol. 145; p. 638.  
Aalborg, C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Clamp for trolley-conductors. No. 931,368; Aug. 17; Sp. p. 3701; Gaz. vol. 145; p. 639.  
Aalborg, C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical-circuit breaker. No. 936,594; Oct. 12; Sp. p. 2093; Gaz. vol. 147; p. 348.  
Aarons, S. L., Milwaukee, Wis. Sign. No. 914,775; Mar. 9; Sp. p. 2359; Gaz. vol. 140; p. 396.  
Aarons, S. L., Milwaukee, Wis. Sign. No. 914,776; Mar. 9; Sp. p. 2361; Gaz. vol. 140; p. 396.  
Aarons, S. L., Milwaukee, Wis. Sign. No. 914,777; Mar. 9; Sp. p. 2364; Gaz. vol. 140; p. 397.  
Abbé, M. F., New York, N. Y. Pebble-mill. No. 944,996; Dec. 28; Sp. p. 6372; Gaz. vol. 149; p. 1094.  
Abbé, M. F., New York, N. Y. Pebble-mill. No. 944,997; Dec. 28; Sp. p. 6373; Gaz. vol. 149; p. 1094.  
Abbott, C. C., Fruitport, Mich. Dust-collecting attachment for brooms. No. 917,701; Apr. 6; Sp. p. 1437; Gaz. vol. 141; p. 252.  
Abbott, C. C., assignor to Triumph Voting Machine Company, Pittsfield, Mass. Uniform-paper-feed mechanism for voting-machines. No. 914,005; Mar. 2; Sp. p. 737; Gaz. vol. 140; p. 117.  
Abbott, C. C., assignor to Triumph Voting Machine Company, Pittsfield, Mass. Voting-machine. No. 914,006; Mar. 2; Sp. p. 739; Gaz. vol. 140; p. 117.  
Abbott, C. C., assignor to Triumph Voting Machine Company, Pittsfield, Mass. Independent-voting mechanism for voting-machines. No. 914,007; Mar. 2; Sp. p. 751; Gaz. vol. 140; p. 118.  
Abbott, C. C., assignor to Triumph Voting Machine Company, Pittsfield, Mass. Grouping mechanism for voting-machines. No. 914,008; Mar. 2; Sp. p. 759; Gaz. vol. 140; p. 118.  
Abbott, C. C., assignor to Triumph Voting-Machine Company, Pittsfield, Mass. Cumulative-voting mechanism. No. 914,009; Mar. 2; Sp. p. 767; Gaz. vol. 140; p. 119.  
Abbott, F. E., Buffalo, N. Y. Railway cross-tie. No. 911,022; Feb. 2; Sp. p. 1; Gaz. vol. 139; p. 3.  
Abbott, F. W., Los Angeles, Cal. Folding bed. No. 934,644; Sept. 21; Sp. p. 3369; Gaz. vol. 146; p. 587.  
Abbott, H. F. (See Brady and Abbott.)  
Abbott, J., trustee. (See Browne, R. C., assignor.)  
Abbott, J. H., Philadelphia, Pa. Dental brush. No. 912,051; Feb. 9; Sp. p. 2118; Gaz. vol. 139; p. 365.  
Abbott, P., Franklin, N. H. Cam-cylinder for knitting-machines. No. 933,814; Sept. 14; Sp. p. 1736; Gaz. vol. 146; p. 288.  
Abbott, W. G., Jr., Schenectady, N. Y., assignor to General Electric Company. Rheostat. No. 925,551; June 22; Sp. p. 5135; Gaz. vol. 143; p. 905.



*Alphabetical list of patentees—Continued.*

- Abeel, F. R., Tacoma, Wash. Mechanical scraper. No. 921,331; May 11; Sp. p. 2542; Gaz. vol. 142; p. 440.
- Abel, A., Baden, Germany. Machine for manufacturing paper tubes. No. 929,180; July 27; Sp. p. 5126; Gaz. vol. 144; p. 911.
- Abel, A. J., Davenport, Iowa. Carbureter. No. 911,105; Feb. 2; Sp. p. 156; Gaz. vol. 139; p. 30.
- Abel, N. F., Mount Oliver, assignor of one-half to W. J. Charters, Allegheny county, Pa. Feed-bag. No. 936,975; Oct. 12; Sp. p. 2849; Gaz. vol. 147; p. 475.
- Abercrombie, A. V., assignor of one-half to C. M. Abercrombie, Bridgeport, Conn. Sewing-machine. No. 915,924; Mar. 23; Sp. p. 4660; Gaz. vol. 140; p. 827.
- Abercrombie, C. M. (See Abercrombie, A. V., assignor.)
- Abercrombie, D. T., Newark, N. J. Detachable handle for frying-pans and other culinary vessels. No. 918,939; Apr. 20; Sp. p. 4136; Gaz. vol. 141; p. 723.
- Abercrombie, T. B., Weldon, Iowa. Mold for concrete culverts. No. 921,497; May 11; Sp. p. 2881; Gaz. vol. 142; p. 496.
- Aberle, E., West Nutley, N. J. Computing-table. No. 938,737; Nov. 2; Sp. p. 620; Gaz. vol. 148; p. 98.
- Abernathy, R. L., East St. Louis, Ill. Rail splice and brace. No. 922,231; May 18; Sp. p. 4406; Gaz. vol. 142; p. 764.
- Abernathy, S., Ponoka, Ala. Eccentric ore-crusher. No. 935,630; Oct. 5; Sp. p. 2; Gaz. vol. 147; p. 3.
- Abernethy, H. M., Cleveland, Ohio. Railway-track instrument. No. 933,871; Sept. 14; Sp. p. 1856; Gaz. vol. 146; p. 307.
- Abernethy, H. M., Cleveland, Ohio. Dwarf railway semaphore-signal. No. 936,283; Oct. 12; Sp. p. 1403; Gaz. vol. 147; p. 243.
- Abernethy, H. M., Cleveland, Ohio. Friction-clutch electric control. No. 936,284; Oct. 12; Sp. p. 1405; Gaz. vol. 147; p. 243.
- Abeyta, S., Encino, N. Mex. Sheep-shearing machine. No. 935,137; Sept. 28; Sp. p. 4361; Gaz. vol. 146; p. 778.
- Able, F. J., Louisville, Ky. Turning and smoothing device for phonograph-records. No. 928,015; July 13; Sp. p. 2724; Gaz. vol. 144; p. 464.
- Ableman, E. A., Gheen, Minn. Fruit-picker. No. 942,302; Dec. 7; Sp. p. 583; Gaz. vol. 149; p. 93.
- Abner Dobie Company. (See Dobie, H. M., assignor.)
- Abner Dobie Company. (See Dobie and Rosenthal, assignors.)
- Abraham, A. W., Oshkosh, Wis. Hose-coupling. No. 937,405; Oct. 19; Sp. p. 3779; Gaz. vol. 147; p. 645.
- Abraham, E. C., Santa Cruz, Cal. Attachment for motor-cycles. No. 944,932; Dec. 28; Sp. p. 6249; Gaz. vol. 149; p. 1073.
- Abrahams, U. A., Detroit, Mich. Paper-feeding device for type-writers. No. 934,126; Sept. 14; Sp. p. 2371; Gaz. vol. 146; p. 388.
- Abrahamson, A. E., London, England. Detachable trailing carriage for cycles. No. 928,416; July 20; Sp. p. 3573; Gaz. vol. 144; p. 632.
- Abram Cox Stove Company. (See Edgar, A. C., assignor.)
- Abram Cox Stove Company. (See Mott, A. C., Jr., assignor.)
- Abrames, H., *et al.* (See Coleman, L. A., assignor.)
- Abramowski, O. L. M., and F. Rosing, Mildura, Victoria, Australia. Food composition. No. 924,411; June 8; Sp. p. 2850; Gaz. vol. 143; p. 465.
- Abrams, C. E., and C. H. Mason, Chatham, N. Y. Attachment for running-gears of vehicles. No. 925,740; June 22; Sp. p. 5543; Gaz. vol. 143; p. 966.
- Abrams, F., Ennis, Tex. Cotton-chopper. No. 916,960; Apr. 6; Sp. p. 1; Gaz. vol. 141; p. 3.
- Abrams, J. E., assignor to Continental Can Company, Baltimore, Md. Mechanism for seaming sheet-metal vessels. No. 930,913; Aug. 10; Sp. p. 2664; Gaz. vol. 145; p. 456.
- Abrams, P. G., Philadelphia, Pa. Joint for furniture. No. 943,211; Dec. 14; Sp. p. 2535; Gaz. vol. 149; p. 430.
- Abramson, A., Philadelphia, Pa. Gas-heater. No. 930,914; Aug. 10; Sp. p. 2667; Gaz. vol. 145; p. 456.
- Abrate, L., *et al.* (See Reconi, P., assignor.)
- Abresch, E. (See Schneider, G., assignor.)
- Abresch, E. (See Schneider, G. C., assignor.)
- Abry, G. J., Vincennes, Ind. Railway-switch. No. 923,926; June 8; Sp. p. 1830; Gaz. vol. 143; p. 305.
- Abtmeier, T., Wilksburg, Pa. assignor to Westinghouse Electric & Manufacturing Company. Induction-motor. No. 920,898; May 11; Sp. p. 1653; Gaz. vol. 142; p. 295.
- Accola, L. C., Brush, Colo. Shoulder-brace. No. 918,940; Apr. 20; Sp. p. 4138; Gaz. vol. 141; p. 724.
- Ace, B. (See Shields and Ace.)
- Acetylene Apparatus Manufacturing Co. (See Zander, J., assignor.)
- Ach, G. von, Newark, N. J. Apparatus for mixing and administering gases. No. 923,751; June 1; Sp. p. 1392; Gaz. vol. 143; p. 218.
- Ach, G. von, Newark, N. J. Apparatus for holding and administering gases. No. 923,752; June 1; Sp. p. 1396; Gaz. vol. 143; p. 218.
- Ach, G. von, Newark, N. J. Apparatus for administering gases and vapors. No. 925,442; June 22; Sp. p. 4931; Gaz. vol. 143; p. 871.
- Ach, G. von, Newark, N. J. Apparatus for making oxygen. No. 944,473; Dec. 28; Sp. p. 5240; Gaz. vol. 149; p. 917.
- Ach, L., and T. Sutter, Mannheim, assignors to C. F. Boehringer & Soehne, Mannheim-Waldhof, Germany. Salicylic-acid derivative and making the same. No. 922,995; May 25; Sp. p. 5967; Gaz. vol. 142; p. 1041.
- Aché, E. J. (See Beraud and Aché.)
- Acheson, E. G., Stamford township, Welland county, Ontario, Canada. Preparing non-aqueous mixtures and product thereof. No. 911,358; Feb. 2; Sp. p. 658; Gaz. vol. 139; p. 112.
- Acheson, E. G., Stamford township, Welland, Ontario, Canada. Deflocculating non-metallic amorphous bodies. No. 931,832; Aug. 24; Sp. p. 4672; Gaz. vol. 145; p. 810.
- Acheson, E. G., Niagara Falls, Ontario, Canada. Making pure unctuous graphite. No. 933,944; Sept. 14; Sp. p. 1997; Gaz. vol. 146; p. 329.
- Acheson, E. G., assignor to International Acheson Graphite Company, Niagara Falls, N. Y. Making graphite. (Reissue.) No. 12,964; June 1; Sp. p. 1584; Gaz. vol. 143; p. 236.
- Acheson, W., Pittsburg, Pa. Smoke-consumer. No. 944,933; Dec. 28; Sp. p. 6250; Gaz. vol. 149; p. 1074.
- Achgill, W. C., assignor of one-half to E. C. Fritz, Oklahoma, Okla. Transmitting device for telegraph operators. No. 926,162; June 29; Sp. p. 6440; Gaz. vol. 143; p. 1142.
- Acker, C. E., Niagara Falls, N. Y. Electrolytic process of producing compounds. No. 914,100; Mar. 2; Sp. p. 958; Gaz. vol. 140; p. 150.
- Acker, C. E., Niagara Falls, N. Y. Electrolytic process of producing nitrogen compounds. No. 914,214; Mar. 2; Sp. p. 1187; Gaz. vol. 140; p. 187.
- Acker, C. E., New York, N. Y., assignor to Nitrogen Company. Producing nitrids. No. 943,132; Dec. 14; Sp. p. 2384; Gaz. vol. 149; p. 405.
- Acker, J., Horton, Kans., and C. L. Bundy, Chicago Heights, Ill. Draft-sill. No. 935,449; Sept. 28; Sp. p. 4968; Gaz. vol. 146; p. 878.
- Acker, J. B., New York, N. Y. Regenerative gas-furnace. No. 921,332; May 11; Sp. p. 2548; Gaz. vol. 142; p. 440.
- Acker, J. J. (See Bundy and Acker.)
- Ackerman, A. W., Falks Store, assignor of one-tenth to J. H. Thompson, New Plymouth, Idaho. Safety device for elevators. No. 934,645; Sept. 21; Sp. p. 3371; Gaz. vol. 146; p. 587.
- Ackerman, C. F. (See Winfield and Ackerman.)
- Ackerman, C. F., assignor, by mesne assignments, of one-half to D. S. Hawkins, Cleveland, Ohio. Composition of matter. No. 939,938; Nov. 9; Sp. p. 3273; Gaz. vol. 148; p. 540.
- Ackerman, D. H. (See Curran, E. J., assignor.)
- Ackerman, E. L., *et al.* (See Shand, J., assignor.)
- Ackerman, H., Jersey City Heights, assignor to J. C. Nordt, West Hoboken, N. J. Safety attachment for pin-tongues. No. 929,640; July 27; Sp. p. 6076; Gaz. vol. 144; p. 1062.
- Ackerman, H. F., Cleveland, Ohio. Scrubbing-machine. No. 937,353; Oct. 19; Sp. p. 3649; Gaz. vol. 147; p. 628.
- Ackerman, W., assignor to United States Graphotype Company, New York, N. Y. Typecasting and composing machine. No. 940,377; Nov. 16; Sp. p. 4311; Gaz. vol. 148; p. 722.
- Ackermann, A., Basel, assignor to A. Scheibler, Aarau, Switzerland. Umbrella-fitting. No. 934,588; Sept. 21; Sp. p. 3249; Gaz. vol. 146; p. 566.
- Ackermann, H., Berlin, Germany. Spring-mattress. No. 926,375; June 29; Sp. p. 6876; Gaz. vol. 143; p. 1210.
- Ackermann, J. B., Grand Rapids, Mich. Scraper-sharpener. No. 940,773; Nov. 23; Sp. p. 5181; Gaz. vol. 148; p. 880.
- Ackermann, W., Berlin, Germany. Flux for use in soldering. No. 940,111; Nov. 16; Sp. p. 3696; Gaz. vol. 148; p. 630.
- Ackerson, L. W., Succasunna, N. J. Fish-plate. No. 927,394; July 6; Sp. p. 1377; Gaz. vol. 144; p. 229.
- Ackley, G. S., Buffalo, N. Y. Brake mechanism. No. 910,633; Jan. 26; Sp. p. 4523; Gaz. vol. 138; p. 824.
- Ackors, E., Guthrie, Okla. Cotton-harvester. No. 916,522; Mar. 30; Sp. p. 5846; Gaz. vol. 140; p. 1049.
- Acme Automatic Street Indicating Company. (See Small, T. W., assignor.)
- Acme Belting Company. (See Smith, G. H., assignor.)
- Acme Cement Plaster Company. (See Jones, T., assignor.)
- Acme Door and Glass Company. (See Stockwell, M. E., assignor.)
- Acme Harvesting Machine Company. (See Scanland, J. A., assignor.)
- Acme Manufacturing Company. (See Folger, H. C., assignor.)
- Acme Match Company. (See Swett, W. R., assignor.)
- Acme Weather Strip Company. (See Kammerer, J., assignor.)
- Acme White Lead and Color Works. (See Heinz, J., assignor.)

*Alphabetical list of patentees—Continued.*

- Acorn Brass Manufacturing Company. (See Eason, H. H., assignor.)  
 Acrey, C. M. (See Goss, G. W., assignor.)  
 Actien Gesellschaft für Anilin Fabrikation. (See Altschul, J., assignor.)  
 Actien Gesellschaft für Anilin Fabrikation. (See Erdmann, E., assignor.)  
 Actien Gesellschaft für Anilin Fabrikation. (See Geldermann, H., assignor.)  
 Actien Gesellschaft für Anilin Fabrikation. (See Gley and Dieterle, assignors.)  
 Actien Gesellschaft für Anilin Fabrikation. (See Lauch, R., assignor.)  
 Actien-Gesellschaft Hannoversche, Eisengiesserei. (See Frerichs, J. G., assignor.)  
 Acton, W. F., Norwalk, Conn. Vibrator. No. 923,234; June 1; Sp. p. 235; Gaz. vol. 143; p. 39.  
 Adair, C. E., assignor to Cyphers Incubator Company, Buffalo, N. Y. Oil-lamp. No. 931,712; Aug. 24; Sp. p. 4425; Gaz. vol. 145; p. 771.  
 Adair, C. E., assignor to Cyphers Incubator Company, Buffalo, N. Y. Multiple-compartment incubator. No. 934,986; Sept. 28; Sp. p. 4045; Gaz. vol. 146; p. 727.  
 Adair, C. E., assignor to Cyphers Incubator Company, Buffalo, N. Y. Incubator. No. 938,200; Oct. 26; Sp. p. 5453; Gaz. vol. 147; p. 931.  
 Adam, F. B., assignor to Frank Adam Electric Company, St. Louis, Mo. Panel-board cabinet. No. 929,812; Aug. 3; Sp. p. 388; Gaz. vol. 145; p. 65.  
 Adam, G. J., *et al.* (See Duffy, T. I., assignor.)  
 Adam, J. L., New Orleans, La. Mail-bag-transfer device. No. 926,226; June 29; Sp. p. 6594; Gaz. vol. 143; p. 1165.  
 Adam, J. L., New Orleans, La. Freight-transfer device. No. 926,227; June 29; Sp. p. 6598; Gaz. vol. 143; p. 1165.  
 Adam, J. L., New Orleans, La. Mail-bag handler. No. 926,228; June 29; Sp. p. 6602; Gaz. vol. 143; p. 1165.  
 Adam, J. L., New Orleans, La. Mail-bag handler. No. 944,651; Dec. 28; Sp. p. 5647; Gaz. vol. 149; p. 979.  
 Adam, J. L., New Orleans, La. Mail-bag handler. No. 944,711; Dec. 28; Sp. p. 5775; Gaz. vol. 149; p. 999.  
 Adam, O., Dresden, Germany. Electrical cableway system. No. 943,509; Dec. 14; Sp. p. 3176; Gaz. vol. 149; p. 534.  
 Adams, A., Springfield, Mass. Washtub-cover. No. 941,054; Nov. 23; Sp. p. 5760; Gaz. vol. 148; p. 972.  
 Adams, A. J., assignor to Fulton Manufacturing Company, Chicago, Ill. Folding carriage. No. 913,345; Feb. 23; Sp. p. 4786; Gaz. vol. 139; p. 857.  
 Adams, A. J., assignor to Fulton Manufacturing Company, Chicago, Ill. Baby-carriage. No. 914,010; Mar. 2; Sp. p. 777; Gaz. vol. 140; p. 119.  
 Adams, A. J., assignor to Fulton Manufacturing Company, Chicago, Ill. Go-cart or baby-carriage. No. 918,250; Apr. 13; Sp. p. 2630; Gaz. vol. 141; p. 466.  
 Adams, A. J., assignor to Fulton Manufacturing Company, Chicago, Ill. Convertible baby carriage and sleigh. No. 925,151; June 15; Sp. p. 4379; Gaz. vol. 143; p. 747.  
 Adams, A. J., assignor to Fulton Manufacturing Company, Chicago, Ill. Baby-carriage or perambulator. No. 925,152; June 15; Sp. p. 4380; Gaz. vol. 143; p. 747.  
 Adams, A. J., assignor to Fulton Manufacturing Company, Chicago, Ill. Go-cart or baby-carriage. No. 925,741; June 22; Sp. p. 5544; Gaz. vol. 143; p. 966.  
 Adams, A. J., assignor to Fulton Manufacturing Company, Chicago, Ill. Foot-rest for go-carts. No. 927,089; July 6; Sp. p. 825; Gaz. vol. 144; p. 132.  
 Adams, A. N., Omaha, Nebr. Gearing. No. 926,919; July 6; Sp. p. 448; Gaz. vol. 144; p. 72.  
 Adams, C. B., New Orleans, La. Drawer-pull. No. 934,258; Sept. 14; Sp. p. 2619; Gaz. vol. 146; p. 433.  
 Adams, C. M., Providence, R. I. Screw-press. No. 931,833; Aug. 24; Sp. p. 4673; Gaz. vol. 145; p. 810.  
 Adams, C. S. (See Rice and Adams.)  
 Adams, E. E., New York, N. Y. Collection-box. No. 931,549; Aug. 17; Sp. p. 4039; Gaz. vol. 145; p. 696.  
 Adams, E. J., Philadelphia, Pa. Confectionery-holder. No. 927,396; July 6; Sp. p. 1382; Gaz. vol. 144; p. 230.  
 Adams, E. M. and G. L., Owego, N. Y. Dinner-pail. No. 940,571; Nov. 16; Sp. p. 4727; Gaz. vol. 148; p. 787.  
 Adams, E. S., Llagas, Cal. Fireless brooder. No. 930,915; Aug. 10; Sp. p. 2668; Gaz. vol. 145; p. 457.  
 Adams, E. W., North Topeka, Kans. Pipe-coupling. No. 912,929; Feb. 16; Sp. p. 3936; Gaz. vol. 139; p. 693.  
 Adams, E. W., North Topeka, Kans. Sliding gate-latch. No. 932,232; Aug. 24; Sp. p. 5534; Gaz. vol. 145; p. 942.  
 Adams & Elting Company. (See Neymann, P., assignor.)  
 Adams, F., assignor of one-half to W. Adams, Staunton, Ill. Gate. No. 925,977; June 22; Sp. p. 6045; Gaz. vol. 143; p. 1045.  
 Adams, F. E., Wallasey, England. Machine for trimming the edges of metal boxes. No. 925,070; June 15; Sp. p. 4218; Gaz. vol. 143; p. 719.  
 Adams, F. L., *et al.* (See Smith, W. D., assignor.)  
 Adams, F. L. (See Walton, J. A., assignor.)  
 Adams, F. N., Afton, Iowa. Automatic corn-planter. No. 914,373; Mar. 9; Sp. p. 1541; Gaz. vol. 140; p. 263.  
 Adams, F. S., Leetonia, Ohio. Apparatus for treating molten metals. No. 940,774; Nov. 23; Sp. p. 5182; Gaz. vol. 148; p. 880.  
 Adams, G., Chicago, Ill. Joint for metal beds. No. 923,235; June 1; Sp. p. 236; Gaz. vol. 143; p. 39.  
 Adams, G., assignor of one-fourth to J. P. Bingaman and one-fourth to D. M. Sachter, Pittsburg, Pa. Self-locking fastening. No. 931,665; Aug. 17; Sp. p. 4284; Gaz. vol. 145; p. 732.  
 Adams, G. B., Irvington, N. J. Buckle. No. 943,212; Dec. 14; Sp. p. 2537; Gaz. vol. 149; p. 430.  
 Adams, G. C. (See Harrison, W. J., assignor.)  
 Adams, G. L. (See Adams, E. M. and G. L.)  
 Adams, G. L., Altoona, Pa. Trolley-harp mounting. No. 928,016; July 13; Sp. p. 2725; Gaz. vol. 144; p. 465.  
 Adams, G. M., Lebanon, Ind. Stove. No. 908,436; Jan. 5; Sp. p. 1; Gaz. vol. 138; p. 3.  
 Adams, G. R., Hiawatha, Kans., assignor to M. O. Adams, Kansas City Mo. Washing-machine. No. 923,101; May 25; Sp. p. 6196; Gaz. vol. 142; p. 1074.  
 Adams, H. E., Hockingport, Ohio. Locket. No. 932,938; Aug. 31; Sp. p. 6978; Gaz. vol. 145; p. 1198.  
 Adams, H. T., Chicago, Ill. Motor-cycle attachment. No. 936,845; Oct. 12; Sp. p. 2595; Gaz. vol. 147; p. 433.  
 Adams, H. T., Chicago, Ill., assignor to Henry T. Adams Company. Cycle-stand. No. 913,446; Feb. 23; Sp. p. 4986; Gaz. vol. 139; p. 892.  
 Adams, J. (See Ruttan, Adams, and Ruttan.)  
 Adams, J. C. (See Hull, L. E., assignor.)  
 Adams, J. C., Charleston, Ill. Mail-catcher. No. 932,085; Aug. 24; Sp. p. 5238; Gaz. vol. 145; p. 893.  
 Adams, J. C., Charleston, Ill. Railway mail-crane. No. 934,987; Sept. 28; Sp. p. 4048; Gaz. vol. 146; p. 727.  
 Adams, J. F., Phillipsburg, N. J. Knockdown box. No. 930,112; Aug. 3; Sp. p. 1031; Gaz. vol. 145; p. 167.  
 Adams, J. F., Phillipsburg, N. J. Knockdown box. No. 930,113; Aug. 3; Sp. p. 1033; Gaz. vol. 145; p. 167.  
 Adams, J. F., Phillipsburg, N. J. Knockdown box. No. 930,114; Aug. 3; Sp. p. 1035; Gaz. vol. 145; p. 167.  
 Adams, J. H., Minneapolis, Minn., assignor to Adams Letter Folding Machine Company. Paper-folding machine. No. 909,841; Jan. 12; Sp. p. 2824; Gaz. vol. 138; p. 498.  
 Adams, J. H., Minneapolis, Minn., assignor, by mesne assignments, to Adams Letter Folding Machine Company, Chicago, Ill. Feed device. No. 937,017; Oct. 12; Sp. p. 2940; Gaz. vol. 147; p. 489.  
 Adams, J. H., and E. D. Wallace, Minneapolis, Minn., assignors, by mesne assignments, to Adams Letter Folding Machine Company, Chicago, Ill. Folding-machine. No. 936,506; Oct. 12; Sp. p. 1922; Gaz. vol. 147; p. 317.  
 Adams, J. M., Chicago, Ill. Metal bed. No. 911,862; Feb. 9; Sp. p. 1631; Gaz. vol. 139; p. 302.  
 Adams, J. M., Chicago, Ill. Metal bed. No. 911,863; Feb. 9; Sp. p. 1633; Gaz. vol. 139; p. 303.  
 Adams, J. M., Chicago, Ill. Joint for metal beds. No. 932,233; Aug. 24; Sp. p. 5535; Gaz. vol. 145; p. 942.  
 Adams, J. M., Chicago, Ill. Coupling. No. 932,744; Aug. 31; Sp. p. 6593; Gaz. vol. 145; p. 1136.  
 Adams, J. M., Chicago, Ill. Joint for metal beds. No. 933,355; Sept. 7; Sp. p. 724; Gaz. vol. 146; p. 113.  
 Adams, J. T. (See Watkins, J. W., assignor.)  
 Adams, J. U., Cincinnati, Ohio. Shoulder-brace. No. 940,775; Nov. 23; Sp. p. 5183; Gaz. vol. 148; p. 880.  
 Adams, L. (See Adams, R. B. and L.)  
 Adams, L. C., Dayton, Ohio. Cement fence-post. No. 934,423; Sept. 21; Sp. p. 2939; Gaz. vol. 146; p. 513.  
 Adams, L. T. (See Reynolds, D. A., assignor.)  
 Adams Laundry Machinery Company. (See Mattice, C. H., assignor.)  
 Adams Letter Folding Machine Company. (See Adams, J. H., assignor.)  
 Adams Letter Folding Machine Company. (See Adams and Wallace, assignors.)  
 Adams Letter Folding Machine Company. (See Wallace, E. D., assignor.)  
 Adams, M. G., Parsons, Kans. Flying-machine. No. 917,513; Apr. 6; Sp. p. 1086; Gaz. vol. 141; p. 190.  
 Adams, M. J. and P. P., Turkey River, Iowa. Wheel. No. 916,402; Mar. 30; Sp. p. 5569; Gaz. vol. 140; p. 1009.  
 Adams, M. O. (See Adams, G. R., assignor.)  
 Adams, O. (See Morse, E. A., assignor.)  
 Adams, P. O., Cameron, Tex. Pneumatic rail-brake. No. 916,644; Mar. 30; Sp. p. 6069; Gaz. vol. 140; p. 1088.  
 Adams, P. O., Cameron, Tex. Railway-crossing. No. 916,645; Mar. 30; Sp. p. 6072; Gaz. vol. 140; p. 1088.



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- Adams, P. P. (See Adams, M. J. and P. P.)
- Adams, R. B. and L. Westerville, Ohio. Disinfecting attachment for telephones. No. 944,066; Dec. 21; Sp. p. 4372; Gaz. vol. 149; p. 753.
- Adams, R. C., Panola, Ky. Exhibition apparatus. No. 937,981; Oct. 26; Sp. p. 4964; Gaz. vol. 147; p. 856.
- Adams, R. C., assignor of one-half to H. W. Brown, New York, N. Y. Fare-register. No. 917,834; Apr. 13; Sp. p. 1751; Gaz. vol. 141; p. 322.
- Adams, R. E., Mason City, Iowa. Grate. No. 928,921; July 27; Sp. p. 4593; Gaz. vol. 144; p. 825.
- Adams, R. E., Philadelphia, Pa. Umbrella-lock. No. 931,550; Aug. 17; Sp. p. 4041; Gaz. vol. 145; p. 696.
- Adams-Randall, C. New York, N. Y. Telephone-transmitter. No. 913,931; Mar. 2; Sp. p. 565; Gaz. vol. 140; p. 91.
- Adams-Randall, C. New York, N. Y. Telephone apparatus. No. 919,113; Apr. 20; Sp. p. 4450; Gaz. vol. 141; p. 777.
- Adams-Randall, C., New York, N. Y. Telephone-transmitter. No. 927,395; July 6; Sp. p. 1378; Gaz. vol. 144; p. 229.
- Adams, T. E., Cleveland Ohio. Rock-drill. No. 913,932; Mar. 2; Sp. p. 568; Gaz. vol. 140; p. 91.
- Adams, T. E., Cleveland Ohio. Rock-drill. No. 914,215; Mar. 2; Sp. p. 1190; Gaz. vol. 140; p. 187.
- Adams, T. E., Pine Bluff, Ark. and C. H. Howard, assignors to Locomotive Tender Frame Company, St. Louis, Mo. Locomotive-crane underframe. No. 908,534; Jan. 5; Sp. p. 218; Gaz. vol. 138; p. 37.
- Adams, W. (See Adams, F., assignor.)
- Adams, W., Sherburn, Minn. Jetting-drill. No. 931,021; Aug. 17; Sp. p. 2931; Gaz. vol. 145; p. 519.
- Adams, W. E., Chicago, Ill. Automatic safety stop-signal. No. 928,834; July 20; Sp. p. 4408; Gaz. vol. 144; p. 768.
- Adams, W. F., Milwaukee, Wis. Flushing-tank. No. 914,011; Mar. 2; Sp. p. 781; Gaz. vol. 140; p. 119.
- Adams, W. G. (See Hubbard and Adams.)
- Adams, W. H., assignor to W. L. Barrell, Lawrence, Mass. Belting. No. 924,213; June 8; Sp. p. 2460; Gaz. vol. 143; p. 399.
- Adams, W. J., Mobile, Ala. Fertilizer-distributor. No. 927,919; July 13; Sp. p. 2548; Gaz. vol. 144; p. 433.
- Adams, W. J., Mobile, Ala. Fertilizer-distributor. No. 928,835; July 20; Sp. p. 4410; Gaz. vol. 144; p. 768.
- Adams, W. S., assignor to J. G. Brill Company, Philadelphia, Pa. Truck-brake. No. 914,101; Mar. 2; Sp. p. 961; Gaz. vol. 140; p. 151.
- Adams, W. S., assignor to J. G. Brill Co., Philadelphia, Pa. Brake. No. 919,671; Apr. 27; Sp. p. 5827; Gaz. vol. 141; p. 1000.
- Adams, W. S., assignor to J. G. Brill Co., Philadelphia, Pa. Maximum-traction truck. No. 919,803; Apr. 27; Sp. p. 6068; Gaz. vol. 141; p. 1044.
- Adams, W. S., assignor to J. G. Brill Company, Philadelphia, Pa. Car-truck. No. 926,838; July 6; Sp. p. 275; Gaz. vol. 144; p. 44.
- Adams, W. S., assignor to J. G. Brill Co., Philadelphia, Pa. Brake. No. 926,920; July 6; Sp. p. 452; Gaz. vol. 144; p. 73.
- Adams, W. S., assignor to J. G. Brill Company, Philadelphia, Pa. Brake-hanger. No. 935,831; Oct. 5; Sp. p. 498; Gaz. vol. 147; p. 71.
- Adams, W. T., Hays borough, assignor of one-half to R. Higgins, Pittsburg, Pa. Boiler-tube extractor. No. 918,411; Apr. 13; Sp. p. 2933; Gaz. vol. 141; p. 517.
- Adams, W. T., Hayesboro, and R. Higgins, Pittsburg, Pa. Tube-drawing device. No. 931,551; Aug. 17; Sp. p. 4043; Gaz. vol. 145; p. 697.
- Adams & Westlake Company. (See Giese, J. A., assignor.)
- Adams & Westlake Company. (See Hamm, W. S., assignor.)
- Adams & Westlake Company. (See Hamm and Legge, assignors.)
- Adams & Westlake Company. (See Legge, T. A., assignor.)
- Adams & Westlake Company. (See Mosher, J. A., assignor.)
- Adams & Westlake Company. (See Schuetz, F. A., assignor.)
- Adamson, A. J. (See Webb, Brettell, and Adamson.)
- Adamson, A. J., assignor of one-half to F. M. Cornelius, Elkland, Pa. Pump. No. 910,107; Jan. 19; Sp. p. 3368; Gaz. vol. 138; p. 619.
- Adamson, I. F., Appleton City, Mo. Machine for sharpening disks. No. 930,263; Aug. 3; Sp. p. 1303; Gaz. vol. 145; p. 215.
- Adamson, W., Rock Island, Ill. Three-way valve. No. 916,403; Mar. 30; Sp. p. 5571; Gaz. vol. 140; p. 1009.
- Adder Cash Register Syndicate. (See Postans, A. J., assignor.)
- Adder Machine Company. (See Callam, W., assignor.)
- Adder Machine Company. (See Herzog, C. H., assignor.)
- Adder Machine Company. (See Kuentzler, H., assignor.)
- Adder Machine Company. (See Kuntzler, H., assignor.)
- Adder Machine Company. (See McFarland, C. N., assignor.)
- Adder Machine Company. (See White, N., assignor.)
- Addie, H. G., assignor to A. L. Peterson, Cresco, Iowa. Electric testing instrument. No. 925,412; June 15; Sp. p. 4850; Gaz. vol. 143; p. 829.
- Addie, H. G., assignor to A. L. Peterson, Cresco, Iowa. Connection-terminal for electric conductors. No. 926,451; June 29; Sp. p. 7018; Gaz. vol. 143; p. 1237.
- Adding Typewriter Company. (See Dysart, B., assignor.)
- Addison, L. W., and L. T. Armstrong, Lima, Ohio. Folding clothes-rack. No. 925,413; June 15; Sp. p. 4853; Gaz. vol. 143; p. 829.
- Addograph Manufacturing Company. (See Uebbing and Marshall, assignors.)
- Addressograph Company. (See Duncan, J. S., assignor.)
- Adelley, C. N. (See Jones, J. S., assignor.)
- Adelman, S., Chicago, Ill. Combined box-hanger and ground-clamp. No. 910,765; Jan. 26; Sp. p. 4785; Gaz. vol. 138; p. 866.
- Adelman, W., Hoboken, N. J. Tool for cutting finger-rings. No. 933,043; Sept. 7; Sp. p. 1; Gaz. vol. 146; p. 3.
- Adelson, A., Oakland, Cal. Bottle-closure. No. 943,231; Dec. 14; Sp. p. 2582; Gaz. vol. 149; p. 437.
- Adelson, H., Cleveland, and C. W. Bliss, Lakewood, Ohio. Liquid-measuring device. No. 920,891; May 4; Sp. p. 1631; Gaz. vol. 142; p. 261.
- Adelson, H., and C. W. Bliss, assignors of one-half to C. J. Wadsworth, Cleveland, Ohio. Liquid measuring and filling apparatus. No. 920,890; May 4; Sp. p. 1628; Gaz. vol. 142; p. 260.
- Adelsperger, D. L., assignor to Foos Manufacturing Company, Springfield, Ohio. Alfalfa-cutting machine. No. 932,745; Aug. 31; Sp. p. 6395; Gaz. vol. 145; p. 1137.
- Aden, J., Greensboro, N. C. Axle-lubricator. No. 924,214; June 8; Sp. p. 2462; Gaz. vol. 143; p. 400.
- Aderer, J., New York, N. Y. Tooth-regulating device. No. 941,840; Nov. 30; Sp. p. 7477; Gaz. vol. 148; p. 1257.
- Adjustable Planter Wheel Company. (See Mussetter, J. A., assignor.)
- Adjustable Seal Company. (See Gottschalk, F., assignor.)
- Adjustable Seal Company. (See Webster, A. L., assignor.)
- Adkins, B. R., and W. Y. Lewis, Flushing, N. Y. Conveying apparatus. No. 935,631; Oct. 5; Sp. p. 4; Gaz. vol. 147; p. 3.
- Adkins, M. F., Ranger, W. Va. Street-sweeper. No. 938,361; Oct. 26; Sp. p. 5807; Gaz. vol. 147; p. 986.
- Adkins, R., *et al.* (See Adkins, S., assignor.)
- Adkins, S., assignor of two-thirds to R. Adkins and W. H. Adkins, Jr., Minneapolis, Minn. Cornet. No. 911,637; Feb. 9; Sp. p. 1218; Gaz. vol. 139; p. 230.
- Adkins, W. H., Jr., *et al.* (See Adkins, S., assignor.)
- Adler, H., Pittsburg, assignor to H. Adler Company, Carnegie, Pa. Curtain-stretcher. No. 929,181; July 27; Sp. p. 5129; Gaz. vol. 144; p. 911.
- Adler, L., *et al.* (See Gardner, S., assignor.)
- Adler, L., New York, N. Y. Jewelry. No. 943,291; Dec. 14; Sp. p. 2714; Gaz. vol. 149; p. 458.
- Adler, M. A., New York, N. Y. Coat. No. 928,017; July 13; Sp. p. 2726; Gaz. vol. 144; p. 465.
- Adlon, C. F., Las Vegas, N. Mex. Ter. Enlarging attachment for cameras. No. 920,516; May 4; Sp. p. 857; Gaz. vol. 142; p. 138.
- Adolph, G., Ammendorf, and A. Pietzsch, assignors to Chemische Fabrik Buckau, Magdeburg, Germany. Making durable carbon electrodes for electrolytic purposes. No. 934,988; Sept. 28; Sp. p. 4050; Gaz. vol. 146; p. 728.
- Adolph Raudnitz Co. (See Weidemann, T. R., assignor.)
- Adolphs, F., Ratingen, near Dusseldorf, Germany. Fireproof safe. No. 944,007; Dec. 21; Sp. p. 4262; Gaz. vol. 149; p. 733.
- Adreon, E. L., Jr. (See Clarke, M. S., assignor.)
- Adreon, E. L., Jr., *et al.* (See Renaud, T. H., assignor.)
- Adreon, R. E. (See Wilson, E., assignor.)
- Adreon, R. E., St. Louis, Mo. Pipe clamp and hanger. No. 918,639; Apr. 20; Sp. p. 3450; Gaz. vol. 141; p. 621.
- Adrian Wire Fence Company. (See Sturtevant, O. S., assignor.)
- Adriance, B. (See Calleson, A., assignor.)
- Adriance, B., Brooklyn, N. Y. Heading sheet-metal cans. No. 939,197; Nov. 9; Sp. p. 1613; Gaz. vol. 148; p. 285.
- Adriance, B., and A. Calleson, Brooklyn, N. Y.; said Calleson assignor to said Adriance. Bottle-capping machine. No. 913,182; Feb. 23; Sp. p. 4451; Gaz. vol. 139; p. 803.
- Adriance, B., and A. Calleson, Brooklyn, N. Y.; said Calleson assignor to said Adriance. Multiple can-heading machine. No. 927,310; July 6; Sp. p. 1230; Gaz. vol. 144; p. 203.
- Adriance, B., and A. Calleson, Brooklyn, N. Y.; said Calleson assignor to said Adriance. Machine for clenching together sheet-metal cans and their heads. No. 931,022; Aug. 17; Sp. p. 2932; Gaz. vol. 145; p. 519.

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- Adriance, B., and A. Calleson, Brooklyn, N. Y.; said Calleson assignor to said Adriance. Apparatus for forming hollow sheet-metal bodies. No. 940,914; Nov. 23; Sp. p. 5460; Gaz. vol. 148; p. 925.
- Adsit, G., assignor to Benjamin Eastwood Company, Paterson, N. J. Quilling-machine. No. 919,298; Apr. 27; Sp. p. 5027; Gaz. vol. 141; p. 873.
- Adt, L. F. (See Schild, E. H., assignor.)
- Adt, L. F., Albany, N. Y. Eyeglasses. No. 926,728; July 6; Sp. p. 16; Gaz. vol. 144; p. 6.
- Adt, L. F., Albany, N. Y. Nose-guard. No. 935,724; Oct. 5; Sp. p. 214; Gaz. vol. 147; p. 35.
- Advertising Mirrorgraph Company. (See Kelley, W. V. D., assignor.)
- Aeolian Company. (See Dickinson, J. H., assignor.)
- Aeolian Company. (See Pain, R. W., assignor.)
- Aeolian Company. (See Rees, W. H., assignor.)
- Aerating Machine Company. (See Pein, H., assignor.)
- Aerators Limited. (See Read and Campbell, assignors.)
- Aeschbach, F., Aarau, Switzerland. Mixing-machine. No. 938,201; Oct. 26; Sp. p. 5455; Gaz. vol. 147; p. 932.
- Aetna Powder Company. (See Allen, G. A., assignor.)
- Afloat Motor Co. (See McFarland, J. D., Jr., assignor.)
- Agar, C. B., Camden, N. J., assignor to B. P. Oddyke, Philadelphia, Pa. Machine for making elbows for spouts, conductors, &c. No. 919,804; Apr. 27; Sp. p. 6070; Gaz. vol. 141; p. 1044.
- Aggas, C. B., and J. E. Rabbitt, Fenelon, Pa. Attachment for oil-pumps. No. 942,954; Dec. 14; Sp. p. 1985; Gaz. vol. 149; p. 344.
- Aggerbeck, C. I., Washington, D. C. Detaching device for live stock. No. 943,641; Dec. 21; Sp. p. 3493; Gaz. vol. 149; p. 609.
- Agin, W., Chillicothe, Ohio. Window-fastener. No. 925,414; June 15; Sp. p. 4855; Gaz. vol. 143; p. 829.
- Agler, J. E., Wayne, Nebr. Loading apparatus. No. 921,498; May 11; Sp. p. 2882; Gaz. vol. 142; p. 496.
- Agner, R. C., Burlington, Wis. Lubricator. No. 940,572; Nov. 16; Sp. p. 4728; Gaz. vol. 148; p. 787.
- Agrell, F. G., Stockholm, Sweden. Sender for selective systems. No. 927,469; July 13; Sp. p. 1571; Gaz. vol. 144; p. 283.
- Agricultural Machines Improvement Company. (See Leoni, A. M., assignor.)
- Ahlbrecht, T. C., Hector, Minn. Loading apparatus. No. 919,114; Apr. 20; Sp. p. 4454; Gaz. vol. 141; p. 778.
- Ahlen, W., Duquesne, and H. C. Siebert, Braddock, Pa. Apparatus for cleaning gases. No. 941,841; Nov. 30; Sp. p. 7479; Gaz. vol. 148; p. 1257.
- Ahlrs, W. H., assignor, by mesne assignments, to Kelley Electric Machine Company, Buffalo, N. Y. Guide device for routing-machines. No. 931,552; Aug. 17; Sp. p. 4045; Gaz. vol. 145; p. 697.
- Ahlgren, J. H., New York, N. Y. Safety gas-burner. No. 909,508; Jan. 12; Sp. p. 2183; Gaz. vol. 138; p. 387.
- Ahlheim, P., St. Louis, Mo. Bake-oven. No. 911,799; Feb. 9; Sp. p. 1517; Gaz. vol. 139; p. 283.
- Ahlquist, K., Rugby, England, assignor to General Electric Company. Shaft-packing for elastic-fluid turbines. No. 922,551; May 25; Sp. p. 5052; Gaz. vol. 142; p. 897.
- Ahlstedt, E. E., and A. L. Bowman, New York, N. Y. Brush. No. 939,181; Nov. 2; Sp. p. 1566; Gaz. vol. 148; p. 254.
- Ahlstrom, G. M., J., Pittsburg, Pa. Envelop. No. 911,800; Feb. 9; Sp. p. 1518; Gaz. vol. 139; p. 283.
- Ahlvin, J. E., Joliet, Ill. Hinge. No. 923,400; June 1; Sp. p. 662; Gaz. vol. 143; p. 96.
- Ahnfeldt, H. (See Richards and Ahnfeldt.)
- Ahrens, F. C., Chicago, Ill. Vehicle-lamp. No. 940,915; Nov. 23; Sp. p. 5462; Gaz. vol. 148; p. 926.
- Ahrens, G. A., Mukwonago, Wis. Means for reducing air resistance on vehicles. No. 926,971; July 6; Sp. p. 550; Gaz. vol. 144; p. 90.
- Aichman, A. C., Kalispell, Mont. Screw. No. 922,072; May 18; Sp. p. 4073; Gaz. vol. 142; p. 712.
- Aide, W. H., assignor of one-half to E. E. Jackson, Dodgeville, Wis. Harness-saddle spring. No. 923,102; May 25; Sp. p. 6197; Gaz. vol. 142; p. 1074.
- Aigner, F., Potsdam, assignor to Dynamit-Aktiengesellschaft vormals Alfred Nobel und Co., Hamburg, Germany. Manufacturing nitro-glycerin. No. 913,653; Feb. 23; Sp. p. 5458; Gaz. vol. 139; p. 961.
- Aikele, A., Jr., Logan, Utah. Pea-sheller. No. 937,270; Oct. 19; Sp. p. 3485; Gaz. vol. 147; p. 602.
- Aiken, E. L., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Driving mechanism for phonographs. No. 917,514; Apr. 6; Sp. p. 1091; Gaz. vol. 141; p. 190.
- Aiken, E. L., Orange, assignor to Edison Manufacturing Company, West Orange, N. J. Kinetoscope. No. 937,746; Oct. 26; Sp. p. 4475; Gaz. vol. 147; p. 777.
- Aiken, J. T. (See Jackson and Aiken.)
- Ainey, C. H. (See Clements, G. P., assignor.)
- Ainsworth, G. M., Cedar Rapids, Iowa. Center-punch. No. 913,677; Mar. 2; Sp. p. 1; Gaz. vol. 140; p. 3.
- Ainsworth, R. F., Andover, Ohio. Automatic gas cut-off. No. 935,725; Oct. 5; Sp. p. 215; Gaz. vol. 147; p. 35.
- Air Blast Gin Company. (See Epps, C. C., assignor.)
- Air Blast Gin Company. (See Lumpkin, R. B., assignor.)
- Air-Brake and Steam-Heat Connection Company. (See Kilpatrick, W. W., assignor.)
- Air Motor Company. (See Scholes, D. R., assignor.)
- Aitken, A. W., assignor to Kelly-Springfield Road Roller Company, Springfield, Ohio. Gearing for traction-engines. No. 933,945; Sept. 14; Sp. p. 2000; Gaz. vol. 146; p. 329.
- Aitken, T., Cupar-Fife, Scotland. Forming surfaces on roads. No. 918,490; Apr. 20; Sp. p. 3119; Gaz. vol. 141; p. 573.
- Aitken, T. G., Deming, N. Mex. Barber-chair attachment. No. 938,937; Nov. 2; Sp. p. 1070; Gaz. vol. 148; p. 170.
- Aitken, W., Muswell Hill, England. Telephone divided multiple-switchboard system. No. 927,470; July 13; Sp. p. 1573; Gaz. vol. 144; p. 283.
- Aitkin, T. P., Manchester, Conn. Cooking utensil. No. 914,216; Mar. 2; Sp. p. 1196; Gaz. vol. 140; p. 187.
- Ajax Battery Company. (See Gardiner, W., assignor.)
- Ajax Manufacturing Company. (See Blakeslee, J. R., assignor.)
- Ake, A. A., Bellevue, Ohio. Lifting-truck. No. 939,783; Nov. 9; Sp. p. 2947; Gaz. vol. 148; p. 485.
- Akeley, C. E. (See Hunter, Akeley, and Holt.)
- Akerlund, G., Wilkinsburg, Pa. Gas-producer. No. 925,415; June 15; Sp. p. 4856; Gaz. vol. 143; p. 830.
- Akers, C. W., Jacksonville, Fla. Torch. No. 922,232; May 18; Sp. p. 4407; Gaz. vol. 142; p. 764.
- Akers, H. H., assignor to Cherryvale Specialty Manufacturing Company, Cherryvale, Kans. Sash-lock. No. 910,482; Jan. 26; Sp. p. 4209; Gaz. vol. 138; p. 775.
- Akers, T. J., Latah, Wash. Railway-spike. No. 909,509; Jan. 12; Sp. p. 2184; Gaz. vol. 138; p. 387.
- Akers, T. J., assignor of one-third to H. E. Smith, Latah, Wash. Rail-joint. No. 919,280; Apr. 20; Sp. p. 4966; Gaz. vol. 141; p. 832.
- Akers, T. J., and H. E. Smith, Latah, Wash. Fence-post. No. 926,229; June 29; Sp. p. 6607; Gaz. vol. 143; p. 1166.
- Akin, J. E., Goldfield, Nev. Hammer and hammer-support. No. 914,545; Mar. 9; Sp. p. 1878; Gaz. vol. 140; p. 320.
- Akin, W., Los Angeles, Cal. Gas heater and cooker. No. 910,345; Jan. 19; Sp. p. 3912; Gaz. vol. 138; p. 704.
- Akins, R. P. (See Evans and Akins.)
- Akron Automatic Hot Water Heater Co. (See Garl, M., assignor.)
- Aksnes, L., Wilkinsburg, Pa. Rotary cultivator. No. 915,404; Mar. 16; Sp. p. 3604; Gaz. vol. 140; p. 627.
- Aktiebolaget Baltic-Separator. (See Risberg, J. V. M., assignor.)
- Aktiebolaget Eskilstuna Separator. (See Andersson, C. E., assignor.)
- Aktiebolaget Gasaccumulator. (See Dalén, G., assignor.) (Reissue.)
- Aktiebolaget Ljungström Aughturbin. (See Ljungström, B., assignor.)
- Aktiebolaget Separator. (See Ericsson, A. J., assignor.)
- Aktiebolaget Separator. (See Jørgensen, W., assignor.)
- Aktiebolaget Svenska Automatafabriken. (See Lindgren, E. W., assignor.)
- Aktiebolaget Universallitsluten. (See Fagerström, Johansson, and Streiffert, assignors.)
- Aktiengesellschaft für Buntpapier und Liemfabrikation. (See Metzger, H., assignor.)
- Aktieselskabet Kaptajn Ishøy's Ny Skibstype. (See Ishøy, F., assignor.)
- Alba R., F. de, Panama, Panama. Flushing apparatus. No. 932,939; Aug. 31; Sp. p. 6980; Gaz. vol. 145; p. 1199.
- Alba Manufacturing Company. (See Moffatt, A., assignor.)
- Albanaki, M. G., Enid, Okla. Wrench. No. 913,346; Feb. 23; Sp. p. 4788; Gaz. vol. 139; p. 858.
- Albaugh, E. G., Frederick, Md. Rolls for hulling green peas on the vine. No. 913,678; Mar. 2; Sp. p. 3; Gaz. vol. 140; p. 3.
- Albee, A. E., Torrington, Conn. Device for attaching pictures, &c., to walls. No. 920,236; May 4; Sp. p. 291; Gaz. vol. 142; p. 47.
- Albee, H. M., Nutley, N. J. Woodworking-machine. No. 926,452; June 29; Sp. p. 7020; Gaz. vol. 143; p. 1237.
- Alberger Condenser Company. (See Alberger, L. R., assignor.)
- Alberger, L. R., Greenwich, Conn., assignor to Alberger Condenser Company, New York, N. Y. Support for steam-condensers. No. 914,778; Mar. 9; Sp. p. 2366; Gaz. vol. 140; p. 397.



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- Albers, H., and P. Frueh, St. Louis, Mo. Floor-surfacing machine. No. 943,727; Dec. 21; Sp. p. 3666; Gaz. vol. 149; p. 637.
- Albert, C. A. J., Kvillebäcksvägen, Gottenburg, Sweden. Means for purifying waste oil. No. 929,266; July 27; Sp. p. 5309; Gaz. vol. 144; p. 938.
- Albert, E., Munich, Germany. Apparatus for making autotype printing-blocks. No. 926,376; June 29; Sp. p. 6878; Gaz. vol. 143; p. 1210.
- Albert, E., Munich, Germany. Making autotype printing-blocks. No. 926,377; June 29; Sp. p. 6880; Gaz. vol. 143; p. 1210.
- Albert, E., Munich, Germany. Etching. No. 928,922; July 27; Sp. p. 4594; Gaz. vol. 144; p. 825.
- Albert, E., Munich, Germany. Etching-machine. No. 928,923; July 27; Sp. p. 4596; Gaz. vol. 144; p. 825.
- Albert, G. (See Albert, J. B., assignor.)
- Albert, J. and J., Perkins, Mich. Planer. No. 925,071; June 15; Sp. p. 4221; Gaz. vol. 143; p. 719.
- Albert, J. B., assignor to G. Albert, Bethel, Conn. Fire-escape. No. 942,477; Dec. 7; Sp. p. 943; Gaz. vol. 149; p. 152.
- Albert, J. T., Baltimore, Md., assignor, by mesne assignments, to Universal Safety Elevator Locking Device Co. Safety appliance for elevators. No. 936,285; Oct. 12; Sp. p. 1407; Gaz. vol. 147; p. 244.
- Albertelli, I., Chicago, Ill. Banana-crate. No. 912,437; Feb. 16; Sp. p. 2917; Gaz. vol. 139; p. 529.
- Albertoni, J. A., and E. Tropeano, Akron, Ohio. Clasp. No. 931,023; Aug. 17; Sp. p. 2936; Gaz. vol. 145; p. 519.
- Albertson, A. C., New York, N. Y. Power-transmitting device. No. 909,127; Jan. 5; Sp. p. 1435; Gaz. vol. 138; p. 229.
- Albertson, O. L., Richmond, Va. Centering or marking tool. No. 912,052; Feb. 9; Sp. p. 2120; Gaz. vol. 139; p. 366.
- Albig, J., Spiers, Germany. Device for moving advertising-plates, &c. No. 914,217; Mar. 2; Sp. p. 1197; Gaz. vol. 140; p. 188.
- Albrecht, C., Charlottenburg, Germany. Linotype-machine. No. 919,805; Apr. 27; Sp. p. 6073; Gaz. vol. 141; p. 1045.
- Albrecht, C. A., Baltimore, Md. Matrix for linotype and other type-casting machines. No. 938,938; Nov. 2; Sp. p. 1071; Gaz. vol. 148; p. 170.
- Albrecht, C. A., Baltimore, Md., and C. Muehleisen, Berlin, Germany. Linotype and other type-casting machine. No. 913,447; Feb. 23; Sp. p. 4987; Gaz. vol. 139; p. 893.
- Albrecht, G. A. (See Odell, L. J., assignor.)
- Albrecht, H. S., St. Louis, Mo. Post or pole. No. 926,311; June 29; Sp. p. 6749; Gaz. vol. 143; p. 1190.
- Albrecht, J. J., Syracuse, N. Y. Shoe-pattern clamp. No. 915,925; Mar. 23; Sp. p. 4664; Gaz. vol. 140; p. 827.
- Albree, C. B., assignor to Chester B. Albree Iron Works Company, Pittsburg, Pa. Valve system for hammers. No. 932,421; Aug. 24; Sp. p. 5879; Gaz. vol. 145; p. 1003.
- Albree, C. B., Allegheny, assignor to Chester B. Albree Iron Works Company, Pittsburg, Pa. Car-fender. No. 943,588; Dec. 14; Sp. p. 3316; Gaz. vol. 149; p. 559.
- Albree, E. C., Swampscott, assignor to Albree Self Figuring System Company, Boston, Mass. Perpetual inventory. No. 921,333; May 11; Sp. p. 2551; Gaz. vol. 142; p. 441.
- Albree Self Figuring System Company. (See Albree, E. C., assignor.)
- Albright, H. F., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Telephone-transmitter. No. 921,334; May 11; Sp. p. 2556; Gaz. vol. 142; p. 441.
- Albright, J., assignor of one-third to W. Behrens, Greenview, Ill. Sewing-machine motor. No. 926,720; July 6; Sp. p. 1; Gaz. vol. 144; p. 3.
- Albrook, R. C. *et al.* (See Ashley, W. J., assignor.)
- Alburger, E. T., Jr., Steelton, Pa. Tongue-switch. No. 927,920; July 13; Sp. p. 2549; Gaz. vol. 144; p. 434.
- Alcorn, J. A., Greeley, Colo. Buckle. No. 912,053; Feb. 9; Sp. p. 2122; Gaz. vol. 139; p. 366.
- Alcorn, J. S., assignor to Cooley Development Company, Boston, Mass. Rotary engine. No. 914,627; Mar. 9; Sp. p. 2039; Gaz. vol. 140; p. 347.
- Alcott, E., Pittsburg, Pa. Paving-block. No. 920,807; May 4; Sp. p. 1449; Gaz. vol. 142; p. 234.
- Alcott, E., Pittsburg, Pa. Paving-block. No. 920,808; May 4; Sp. p. 1451; Gaz. vol. 142; p. 234.
- Alcott, E., New York, N. Y. Pavement. No. 929,366; July 27; Sp. p. 5561; Gaz. vol. 144; p. 975.
- Alden, A. B. (See Parmenter and Alden.)
- Alden, C. A., Steelton, Pa. Railway-rail. No. 925,261; June 15; Sp. p. 4580; Gaz. vol. 143; p. 783.
- Alden, C. A., Steelton, Pa. Guard-rail. No. 934,784; Sept. 21; Sp. p. 3628; Gaz. vol. 146; p. 633.
- Alden, C. A., Steelton, and G. S. Vickery, Harrisburg, Pa. Rail-joint. No. 925,552; June 22; Sp. p. 5137; Gaz. vol. 143; p. 905.
- Alden, C. A., Steelton, and G. S. Vickery, Harrisburg, Pa. Railway-crossing. No. 944,067; Dec. 21; Sp. p. 4372; Gaz. vol. 149; p. 753.
- Alden, H. W., assignor to Timken Roller Bearing Axle Company, Canton, Ohio. Roller-bearing. No. 921,656; May 18; Sp. p. 3225; Gaz. vol. 142; p. 575.
- Alden, S. A., Boston, Mass. Spring hand-grip. No. 910,259; Jan. 19; Sp. p. 3730; Gaz. vol. 138; p. 673.
- Alderfer, H. M., Lower Providence, Pa. Faucet. No. 928,095; July 13; Sp. p. 2874; Gaz. vol. 144; p. 491.
- Alderfer, J. M., Sharon Center, Ohio. Vehicle-wheel rim. No. 918,721; Apr. 20; Sp. p. 3670; Gaz. vol. 141; p. 651.
- Alderfer, J. M., Sharon Center, Ohio. Vehicle-wheel rim. No. 944,351; Dec. 28; Sp. p. 4961; Gaz. vol. 149; p. 875.
- Alderman, D. W., assignor of one-third to S. Arthur, Covington, Va. Sliding-door fastener. No. 912,930; Feb. 16; Sp. p. 3936; Gaz. vol. 139; p. 693.
- Alderman, D. W., assignor of one-third to M. D. Miller and one-third to G. D. Kline, Covington, Va. Rail-joint. No. 934,705; Sept. 21; Sp. p. 3488; Gaz. vol. 146; p. 607.
- Alderman, E. M., Sharon, Pa. Electromagnetic gun. No. 920,709; May 4; Sp. p. 1271; Gaz. vol. 142; p. 203.
- Alderson, J. C. J., El Casco, Cal. Telegraph transmitting-machine. No. 913,183; Feb. 23; Sp. p. 4457; Gaz. vol. 139; p. 803.
- Aldous, N. W., Toronto Ontario, Canada. Truck. No. 915,721; Mar. 23; Sp. p. 4283; Gaz. vol. 140; p. 763.
- Aldred, H. A., Philadelphia, Pa. Collar-stay. No. 928,573; July 20; Sp. p. 3900; Gaz. vol. 144; p. 681.
- Aldred, H. A., Philadelphia, Pa. Collar-supporter. No. 928,621; July 20; Sp. p. 3995; Gaz. vol. 144; p. 697.
- Aldrich, E., Emporia, Kans. Dish-washing apparatus. No. 938,622; Nov. 2; Sp. p. 399; Gaz. vol. 148; p. 60.
- Aldrich, T. G., Denver, Colo. Steam-generator. No. 913,249; Feb. 23; Sp. p. 4598; Gaz. vol. 139; p. 824.
- Aldrich, W. O., assignor to Whitin Machine Works, Whitinsville, Mass. Thread-board. No. 938,202; Oct. 26; Sp. p. 5456; Gaz. vol. 147; p. 932.
- Aldrich, W. O., assignor to Whitin Machine Works, Whitinsville, Mass. Thread-board. No. 942,607; Dec. 7; Sp. p. 1199; Gaz. vol. 149; p. 196.
- Aldridge, L. J., Plattsburg, N. Y., assignor to Aldridge Roller Bearing Manufacturing Company. Journal-bearing. No. 927,471; July 13; Sp. p. 1578; Gaz. vol. 144; p. 284.
- Aldridge, L. J., Plattsburg, N. Y., assignor to Aldridge Roller Bearing Manufacturing Company. Roller-bearing. No. 933,735; Sept. 14; Sp. p. 1599; Gaz. vol. 146; p. 263.
- Aldridge Roller Bearing Manufacturing Company. (See Aldridge, L. J., assignor.)
- Aldridge, W. H. (See McNab, A. J., assignor.)
- Aldridge, W. H. (See Miller, J. F., assignor.)
- Alexander, A. D., Urbanna, Va. Packing-pad. No. 942,191; Dec. 7; Sp. p. 355; Gaz. vol. 149; p. 54.
- Alexander, C. L., Charlotte, N. C. Tooth-brush. No. 913,184; Feb. 23; Sp. p. 4459; Gaz. vol. 139; p. 803.
- Alexander, F., and B. A. Muncie, Paul Smiths, N. Y. Snow-road-making machine. No. 937,561; Oct. 19; Sp. p. 4111; Gaz. vol. 147; p. 699.
- Alexander, H., New York, assignor to Universal Brush Company, Troy and New York, N. Y. Brush. No. 916,383; Mar. 23; Sp. p. 5508; Gaz. vol. 140; p. 978.
- Alexander, J. B., Ansonia, Ohio. Shock-loader. No. 934,646; Sept. 21; Sp. p. 3374; Gaz. vol. 146; p. 588.
- Alexander, J. M., and M. Willhahn, Wyandotte, Mich. Securing means for boat-planking. No. 942,478; Dec. 7; Sp. p. 945; Gaz. vol. 149; p. 152.
- Alexander, J. R., North Yakima, Wash. Indicator for baling-presses. No. 911,106; Feb. 2; Sp. p. 159; Gaz. vol. 139; p. 30.
- Alexander, J. W. (See Epling, T. W., assignor.)
- Alexander, O. A. (See Pratte and Alexander.)
- Alexander, O. M., Anniston, Ala. Cistern. No. 934,647; Sept. 21; Sp. p. 3375; Gaz. vol. 146; p. 588.
- Alexander, R. E., and M. J. Knickerbocker, Endicott, N. Y. Holder and index for phonograph-records. No. 938,809; Nov. 2; Sp. p. 773; Gaz. vol. 148; p. 124.
- Alexander, R. H., Paterson, N. J. Amusement device. No. 941,902; Nov. 30; Sp. p. 7597; Gaz. vol. 148; p. 1279.
- Alexander, T. W., Burlington, Iowa. Oil-can. No. 922,996; May 25; Sp. p. 5970; Gaz. vol. 142; p. 1041.
- Alexander, W. B., Dallas, Tex. Cotton-chopper. No. 942,371; Dec. 7; Sp. p. 713; Gaz. vol. 149; p. 116.
- Alexander, W. C., *et al.* (See Hetherington, W., assignor.)
- Alexander, W. H., Long Branch, N. J. Concrete-mold. No. 922,997; May 25; Sp. p. 5971; Gaz. vol. 142; p. 1041.
- Alexander, W. W., and M. J. Appel, Kansas City, Mo.; said Alexander assignor to said Appel. Cable-operated carrier for conduits. No. 928,300; July 20; Sp. p. 3363; Gaz. vol. 144; p. 500.
- Alexander, F. F. W., Schenectady, N. Y., assignor to General Electric Company. Electric motor. No. 919,514; Apr. 27; Sp. p. 5506; Gaz. vol. 141; p. 946.

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- Alexanderson, E. F. W., Schenectady, N. Y., assignor to General Electric Company. Induction-generator. No. 920,809; May 4; Sp. p. 1453; Gaz. vol. 142; p. 235.
- Alexanderson, E. F. W., Schenectady, N. Y., assignor to General Electric Company. Alternating-current motor. No. 920,896; May 4; Sp. p. 1643; Gaz. vol. 142; p. 262.
- Alexanderson, E. F. W., Schenectady, N. Y., assignor to General Electric Company. System of electric distribution. No. 921,786; May 18; Sp. p. 3486; Gaz. vol. 142; p. 620.
- Alexanderson, E. F. W., Schenectady, N. Y., assignor to General Electric Company. Electric motor. No. 923,311; June 1; Sp. p. 470; Gaz. vol. 143; p. 66.
- Alexanderson, E. F. W., Schenectady, N. Y., assignor to General Electric Company. Single-phase-motor control. No. 923,312; June 1; Sp. p. 472; Gaz. vol. 143; p. 67.
- Alexanderson, E. F. W., Schenectady, N. Y., assignor to General Electric Company. Alternating-current motor. No. 923,753; June 1; Sp. p. 1399; Gaz. vol. 143; p. 219.
- Alexanderson, E. F. W., Schenectady, N. Y., assignor to General Electric Company. Alternating-current motor. No. 923,754; June 1; Sp. p. 1404; Gaz. vol. 143; p. 219.
- Alexanderson, E. F. W., Schenectady, N. Y., assignor to General Electric Company. Single-phase-motor control. No. 927,397; July 6; Sp. p. 1383; Gaz. vol. 144; p. 230.
- Alexanderson, E. F. W., Schenectady, N. Y., assignor to General Electric Company. Alternating-current motor. No. 927,398; July 6; Sp. p. 1388; Gaz. vol. 144; p. 231.
- Alexanderson, E. F. W., Schenectady, N. Y., assignor to General Electric Company. Alternating-current-motor control. No. 927,399; July 6; Sp. p. 1390; Gaz. vol. 144; p. 231.
- Alexanderson, E. F. W., Schenectady, N. Y., assignor to General Electric Company. Single-phase motor. No. 935,881; Oct. 5; Sp. p. 608; Gaz. vol. 147; p. 87.
- Alexanderson, E. F. W., Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 936,071; Oct. 5; Sp. p. 998; Gaz. vol. 147; p. 150.
- Alexanderson, E. F. W., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 940,112; Nov. 16; Sp. p. 3697; Gaz. vol. 148; p. 630.
- Alford, D., assignor of one-half to C. D. Taylor, Cuba, Ill. Car-coupling. No. 916,246; Mar. 23; Sp. p. 5267; Gaz. vol. 140; p. 931.
- Alford, F. R., Winsted, assignor to William L. Gilbert Clock Company, Winsted, Conn. Alarm-stop for clocks. No. 910,444; Jan. 19; Sp. p. 4115; Gaz. vol. 138; p. 737.
- Alford, F. R., assignor to Wm. L. Gilbert Clock Company, Winsted, Conn. Friction-spring for clocks, watches, &c. No. 911,534; Feb. 2; Sp. p. 974; Gaz. vol. 139; p. 170.
- Alford, L. P., New York, N. Y., assignor to Boston Tool Company, Cambridge, Mass. Roller-bearing. No. 915,649; Mar. 16; Sp. p. 4114; Gaz. vol. 140; p. 711.
- Alford, L. P., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Fixture-support for concrete-steel constructions. No. 936,690; Oct. 12; Sp. p. 2300; Gaz. vol. 147; p. 382.
- Alford, W. H., *et al.* (See Dennis, J. M., assignor.)
- Alfred E. Haines Company. (See Every, H. A., assignor.)
- Alfred Graham and Company. (See Graham, E. A., assignor.)
- Alger, M. W., and C. L. Jacobson, Benton Harbor, Mich. Gripper for printing-presses. No. 940,491; Nov. 16; Sp. p. 4546; Gaz. vol. 148; p. 760.
- Alger, P. E., assignor to Columbia Engineering Works, Portland, Oreg. Hydraulic ram. No. 933,283; Sept. 7; Sp. p. 579; Gaz. vol. 146; p. 89.
- Alhambra Tile Company. (See Rose and Wolff, assignors.)
- Aliber, M., Des Moines, Iowa, assignor of one-fourth to E. D. Lewis, Chicago, Ill. Bottle-stopper. No. 921,055; May 11; Sp. p. 1948; Gaz. vol. 142; p. 346.
- Alignum Asbestos Lumber Company. (See Wheeler, J. A., assignor.)
- Allaire, H. (See Desvieux and Allaire.)
- Allan, C. F. F. (See Cranwell, Allan, and Trudgeon.)
- Allan, F. W., Buffalo, N. Y., assignor to Lobnitz and Company, Limited, Renfrew, Scotland. Rock-cutting apparatus. No. 928,574; July 20; Sp. p. 3902; Gaz. vol. 144; p. 681.
- Allan, W. S., Monterey, Mexico. Mechanical movement. No. 944,121; Dec. 21; Sp. p. 4499; Gaz. vol. 149; p. 772.
- Allard, J. F., Boston, Mass., assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y. Tabulating-stop for type-writers. No. 918,722; Apr. 20; Sp. p. 3672; Gaz. vol. 141; p. 652.
- Allard, J. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 924,525; June 8; Sp. p. 3063; Gaz. vol. 143; p. 502.
- Allbee, E. E. (See Towne and Allbee.)
- Allbee, E. E., Arlington, N. J., assignor to Safety Car Heating & Lighting Company. Lamp. No. 942,608; Dec. 7; Sp. p. 1202; Gaz. vol. 149; p. 196.
- Allberry, A. W., Waterford, Ohio. Ejecting-penholder. No. 913,933; Mar. 2; Sp. p. 574; Gaz. vol. 140; p. 92.
- Allbright, A., New York, and G. G. Scudder, Babylon, N. Y. Water-nozzle. No. 935,629; Oct. 5; Sp. p. 1; Gaz. vol. 147; p. 3.
- Aldredge, F. B., assignor to M. B. Aldredge, Des Moines, Iowa. Supply-tank and carburetor for gas plants. No. 940,916; Nov. 23; Sp. p. 5463; Gaz. vol. 148; p. 926.
- Aldredge, M. B. (See Aldredge, F. B., assignor.)
- Allebaugh, G. R. (See Weltner and Allebaugh.)
- Allegra, V., New York, N. Y., assignor of one-half to P. S. Saitta. Street-car fender. No. 927,441; July 6; Sp. p. 1494; Gaz. vol. 144; p. 247.
- Allen, A., North English, Iowa. Eaves-trough. No. 914,218; Mar. 2; Sp. p. 1198; Gaz. vol. 140; p. 188.
- Allen, A. B., Pueblo, Colo. Switch-operating mechanism. No. 922,233; May 18; Sp. p. 4408; Gaz. vol. 142; p. 765.
- Allen, A. C., Riverside, Cal. Wrench. No. 921,335; May 11; Sp. p. 2558; Gaz. vol. 142; p. 442.
- Allen, A. H., Cincinnati, Ohio. Chafing-protector. No. 917,515; Apr. 6; Sp. p. 1093; Gaz. vol. 141; p. 191.
- Allen, A. S., Brookline, Mass. Sheet-feeding apparatus. No. 939,182; Nov. 2; Sp. p. 1567; Gaz. vol. 148; p. 254.
- Allen, A. W., Pencoed, Pa. Protecting furnaces. No. 918,941; Apr. 20; Sp. p. 4139; Gaz. vol. 141; p. 724.
- Allen, A. W., assignor of one-half to J. F. Lynch, Streator, Ill. Instrument for describing arcs of circles. No. 915,926; Mar. 23; Sp. p. 4665; Gaz. vol. 140; p. 827.
- Allen, B. D., *et al.* (See Baker, O. O., assignor.)
- Allen, B. W., Boston, Mass. Machine for printing directly on the surfaces of bottles. No. 927,762; July 13; Sp. p. 2206; Gaz. vol. 144; p. 381.
- Allen, C., El Paso, Tex. Sand and slime separator and classifier. No. 942,697; Dec. 7; Sp. p. 1371; Gaz. vol. 149; p. 225.
- Allen, C. A., Crosswell, Mich. Magazine tobacco-pipe. No. 919,515; Apr. 27; Sp. p. 5508; Gaz. vol. 141; p. 946.
- Allen, C. B., Johnson City, Tenn. Wainscoting. No. 927,205; July 6; Sp. p. 1048; Gaz. vol. 144; p. 169.
- Allen, C. C., Kansas City, Mo. Motor-tool. No. 911,562; Feb. 9; Sp. p. 1037; Gaz. vol. 139; p. 205.
- Allen, C. C., Kansas City, Mo. Liquid-measurer. No. 921,336; May 11; Sp. p. 2559; Gaz. vol. 142; p. 442.
- Allen, C. C., Kansas City, Mo. Liquid-measurer. No. 939,198; Nov. 9; Sp. p. 1614; Gaz. vol. 148; p. 285.
- Allen, C. H., Attleboro, Mass. Articles of jewelry arranged for holding interchangeable gems or stones. No. 937,502; Oct. 19; Sp. p. 3996; Gaz. vol. 147; p. 678.
- Allen, C. L., Salem, N. Y. Shipping-box. No. 932,086; Aug. 24; Sp. p. 5240; Gaz. vol. 145; p. 893.
- Allen, C. R., Cortland, N. Y. Adjustable seat-rail attachment. No. 918,251; Apr. 13; Sp. p. 2632; Gaz. vol. 141; p. 466.
- Allen, C. W. (See Allen, G. W. and C. W.)
- Allen & Co., C. H. (See Lamb, W. H., assignor.)
- Allen, D., and A. C. Pyper, Los Angeles, Cal. Economizing fuel. No. 942,530; Dec. 7; Sp. p. 1053; Gaz. vol. 149; p. 170.
- Allen, D. H., Miamisburg, Ohio. Wheel. No. 944,532; Dec. 28; Sp. p. 5396; Gaz. vol. 149; p. 939.
- Allen, E. B., Louisville, Ky. Car-truck. No. 929,267; July 27; Sp. p. 5311; Gaz. vol. 144; p. 939.
- Allen, E. C. (See Dowd, P. F., assignor.)
- Allen, E. L., Dorloo, N. Y. Adjustable tongue for hitching traction-engines. No. 916,824; Mar. 30; Sp. p. 6389; Gaz. vol. 140; p. 1142.
- Allen, E. P., assignor to Norwall Manufacturing Company, Chicago, Ill. Quick-acting radiator-valve. No. 933,222; Sept. 7; Sp. p. 436; Gaz. vol. 146; p. 67.
- Allen, F. L., St. Joseph, Mich. Automatic lubricator. No. 928,417; July 20; Sp. p. 3575; Gaz. vol. 144; p. 632.
- Allen, F. L., St. Joseph, Mich. Paper-drying machine. No. 935,771; Oct. 5; Sp. p. 330; Gaz. vol. 147; p. 51.
- Allen, F. L., St. Joseph, Mich. Steam-separator. No. 935,772; Oct. 5; Sp. p. 334; Gaz. vol. 147; p. 51.
- Allen, F. R., assignor to United States Floor Surfacing Machine Company, Providence, R. I. Surfacing-roll. No. 933,946; Sept. 14; Sp. p. 2003; Gaz. vol. 146; p. 330.
- Allen, F. R., assignor to United States Floor Surfacing Machine Company, Providence, R. I. Surfacing-machine. No. 939,373; Nov. 9; Sp. p. 2072; Gaz. vol. 148; p. 345.



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- Allen, G. A., Western Springs, assignor to Aetna Powder Company, Chicago, Ill. Electric detonator. No. 938,293; Oct. 26; Sp. p. 5457; Gaz. vol. 147; p. 932.
- Allen, G. F., Toronto, Ontario, Canada, assignor to E. R. Hoyt, St. Louis, Mo. Metallic product. No. 933,612; Sept. 7; Sp. p. 1334; Gaz. vol. 146; p. 198.
- Allen, G. L. (See Ingram and Allen.)
- Allen, G. W. (See Sparks, L. J., assignor.)
- Allen, G. W. and C. W., Syracuse, N. Y. Disinfecting device. No. 920,711; May 4; Sp. p. 1276; Gaz. vol. 142; p. 203.
- Allen, H., *et al.* (See Quack and Woude, assignors.)
- Allen, H., assignor to Pressed Steel Car Company, Pittsburg, Pa. Car-door gear. No. 929,268; July 27; Sp. p. 5313; Gaz. vol. 144; p. 939.
- Allen, H. J., Pascagoula, Miss. Oil-can. No. 934,259; Sept. 14; Sp. p. 2620; Gaz. vol. 146; p. 434.
- Allen, H. L., Cleveland, Ohio. Clam-shell bucket. No. 925,262; June 15; Sp. p. 4581; Gaz. vol. 143; p. 783.
- Allen, H. L., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Railway draw-bar. No. 915,722; Mar. 23; Sp. p. 4284; Gaz. vol. 140; p. 763.
- Allen, H. L., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Bucket-operating mechanism. No. 924,719; June 15; Sp. p. 3492; Gaz. vol. 143; p. 601.
- Allen, Hall & Co. (See Allen, W. B., assignor.)
- Allen, J. D., and J. A. Conly, Philadelphia, Pa. Mechanism for controlling power-transmission elements. No. 914,374; Mar. 9; Sp. p. 1542; Gaz. vol. 140; p. 263.
- Allen, J. E., Trenton, N. J. Motor-cycle. No. 941,903; Nov. 30; Sp. p. 7599; Gaz. vol. 148; p. 1279.
- Allen, J. G., Peoria, Ill. Window-tent. No. 936,846; Oct. 12; Sp. p. 2597; Gaz. vol. 147; p. 433.
- Allen, J. H., Verona, N. J. Rail-joint. No. 925,791; June 22; Sp. p. 5667; Gaz. vol. 143; p. 983.
- Allen, J. H., Verona, N. J. Rail-joint. No. 934,648; Sept. 21; Sp. p. 3377; Gaz. vol. 146; p. 588.
- Allen, J. H., Sedalia, Mo. Combined pencil bucket and sharpener. No. 944,934; Dec. 23; Sp. p. 6251; Gaz. vol. 149; p. 1074.
- Allen, J. H., East Orange, N. J., assignor to W. R. Davis, trustee, New York, N. Y. Step-joint for rails. No. 943,057; Dec. 14; Sp. p. 2242; Gaz. vol. 149; p. 380.
- Allen, J. L. (See Habbert and Allen.)
- Allen, J. M., assignor of two-fifths to C. F. Schneider and one-fifth to O. L. Miller, St. Louis, Mo. Safe-door. No. 912,768; Feb. 16; Sp. p. 3653; Gaz. vol. 139; p. 644.
- Allen, L. E., San Diego, Cal. Cuff-holder. No. 932,423; Aug. 31; Sp. p. 5899; Gaz. vol. 145; p. 1029.
- Allen, M. N., *et al.* (See Baker, O. O., assignor.)
- Allen, M. W., Cleveland, Ohio, assignor to National Carbon Company. Apparatus for forming perforated carbons. No. 916,088; Mar. 23; Sp. p. 4972; Gaz. vol. 140; p. 880.
- Allen, N. I., Everett, assignor to Draper Company, Hopedale, Mass. Loom-temple. No. 940,776; Nov. 23; Sp. p. 5185; Gaz. vol. 148; p. 880.
- Allen, O., Newark, Ohio. Automatic grease-cup. No. 910,346; Jan. 19; Sp. p. 3914; Gaz. vol. 138; p. 704.
- Allen, O., Mount Morris, N. Y. Felly-polishing machine. No. 910,634; Jan. 26; Sp. p. 4526; Gaz. vol. 138; p. 825.
- Allen, O. F., Temple, Tex. Buckle. No. 920,899; May 11; Sp. p. 1654; Gaz. vol. 142; p. 295.
- Allen, R., Caversham, England. Furnace-grate. No. 910,766; Jan. 26; Sp. p. 4786; Gaz. vol. 138; p. 866.
- Allen, R., Caversham, England. Piston. No. 920,237; May 4; Sp. p. 292; Gaz. vol. 142; p. 47.
- Allen, R., Caversham, England. Metallic packing for stuffing-boxes, &c. No. 943,642; Dec. 21; Sp. p. 3494; Gaz. vol. 149; p. 609.
- Allen, R. T. (See Davis, R. O. E., assignor.)
- Allen, S., Albuquerque, N. Mex. Ter. Safety gas-cock. No. 932,940; Aug. 31; Sp. p. 6982; Gaz. vol. 145; p. 1199.
- Allen, S. L., Moorestown, N. J. Potato-digger. No. 920,104; May 4; Sp. p. 1; Gaz. vol. 142; p. 3.
- Allen, S. L., Moorestown, N. J. Seed-drill. No. 932,666; Aug. 31; Sp. p. 6435; Gaz. vol. 145; p. 1111.
- Allen, S. T., Detroit, Mich. Toy air-gun. No. 931,553; Aug. 17; Sp. p. 4046; Gaz. vol. 145; p. 697.
- Allen, T. C. (See Innes and Allen.)
- Allen, T. G., London, England. Brake for the steering-wheels of vehicles. No. 932,234; Aug. 24; Sp. p. 5537; Gaz. vol. 145; p. 943.
- Allen, W. (See Konigsberg and Allen.)
- Allen, W. A., and R. B. Reed, Grants Pass, Oreg. Baggage-truck. No. 917,985; Apr. 13; Sp. p. 2075; Gaz. vol. 141; p. 375.
- Allen, W. B., Worcester, assignor to Allen, Hall & Co., Reading, Mass. Interior wall-coating. No. 930,264; Aug. 3; Sp. p. 1304; Gaz. vol. 145; p. 215.
- Allen, W. D., assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Inclosed hose-rack. No. 933,947; Sept. 14; Sp. p. 2005; Gaz. vol. 146; p. 330.
- Allen, W. G., and R. G. Henry, assignors to Globe Screw Company, Hartford, Conn. Serew-thread-cutting mechanism. No. 928,489; July 20; Sp. p. 3718; Gaz. vol. 144; p. 654.
- Allen, W. H., Detroit, Mich. Forming metal salts. No. 910,982; Jan. 26; Sp. p. 5186; Gaz. vol. 138; p. 935.
- Allen, W. H., Detroit, Mich. Recovering materials from waste. No. 944,533; Dec. 23; Sp. p. 5397; Gaz. vol. 149; p. 939.
- Allen, W. W., Duluth, Minn. Track-brake. No. 924,720; June 15; Sp. p. 3495; Gaz. vol. 143; p. 601.
- Allen, W. W., Cincinnati, Ohio. Guard-rail clamp. No. 926,717; June 29; Sp. p. 7530; Gaz. vol. 143; p. 1325.
- Allen, W. W., Alma, Mich. Mattress-strap. No. 931,024; Aug. 17; Sp. p. 2937; Gaz. vol. 145; p. 520.
- Allen, W. W., Pretty Prairie, Kans. Train-order-delivering apparatus. No. 935,632; Oct. 5; Sp. p. 9; Gaz. vol. 147; p. 4.
- Allen, W. W., Cornell, Ill. Water-key for musical instruments. No. 942,429; Dec. 7; Sp. p. 823; Gaz. vol. 149; p. 135.
- Allen, W. W., Napoleon, Ohio. Wind-engine. No. 918,252; Apr. 13; Sp. p. 2634; Gaz. vol. 141; p. 467.
- Allert, W. F., New York, N. Y. Display apparatus. No. 910,767; Jan. 26; Sp. p. 4783; Gaz. vol. 138; p. 866.
- Allerton, F. M., assignor of one-third to O. R. Allerton, Benton Harbor, Mich., and one-third to W. E. Allerton, Chicago, Ill. Lifting-jack. No. 939,374; Nov. 9; Sp. p. 2076; Gaz. vol. 148; p. 346.
- Allerton, O. R., *et al.* (See Allerton, F. M., assignor.)
- Allerton, W. E., *et al.* (See Allerton, F. M., assignor.)
- Alley, F. L., Sydney, New South Wales, Australia, assignor to United Shoe Machinery Company, Paterson, N. J. Thread-waxing device. No. 930,115; Aug. 3; Sp. p. 1037; Gaz. vol. 145; p. 168.
- Alley, F. L., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 935,726; Oct. 5; Sp. p. 217; Gaz. vol. 147; p. 35.
- Alley, J. A., Stoneville, N. C. Bolt-clipper. No. 914,910; Mar. 9; Sp. p. 2624; Gaz. vol. 140; p. 440.
- Alley, J. J. (See George, J. C. and G. L., assignors.)
- Allez, J., Winnipeg, Manitoba, Canada. Street-car fender. No. 928,575; July 20; Sp. p. 3903; Gaz. vol. 144; p. 682.
- Algeo, W. E., Port Huron, Mich., assignor to Handy Jack Manufacturing Company of Canada, Lambton county, Ontario, Canada. Lifting-jack. No. 911,638; Feb. 9; Sp. p. 1220; Gaz. vol. 139; p. 231.
- Allgire, R. E. (See Pocock and Allgire.)
- Alliance Machine Company. (See Kendall, D., assignor.)
- Allin, W. J., Clarendon, Ark. Rail-fastener. No. 911,359; Feb. 2; Sp. p. 659; Gaz. vol. 139; p. 412.
- Alling, J. A., assignor of one-third to H. Husberg, Stockholm, Sweden. Pen. No. 920,900; May 11; Sp. p. 1655; Gaz. vol. 142; p. 295.
- Allinger, F. (See Smyth and Allinger.)
- Allingham, J. (See Hedges and Allingham.)
- Allingham, J., Chicago, Ill. Mechanical movement. No. 931,713; Aug. 24; Sp. p. 4426; Gaz. vol. 145; p. 771.
- Allinio, P., San Pablo, Cal. Ceiling construction. No. 914,102; Mar. 2; Sp. p. 963; Gaz. vol. 140; p. 151.
- Allis-Chalmers Company. (See Allison, D. K., assignor.)
- Allis-Chalmers Company. (See Bassett, N. C., assignor.)
- Allis-Chalmers Company *et al.* (See Behrend, B. A., assignor.)
- Allis-Chalmers Company *et al.* (See Behrend and Mattman, assignors.)
- Allis-Chalmers Company *et al.* (See Bettinger, J. J., assignor.)
- Allis-Chalmers Company. (See Blümel, B., assignor.)
- Allis-Chalmers Company *et al.* (See Brown, A. J., assignor.)
- Allis-Chalmers Company. (See Cassel, E. F., assignor.)
- Allis-Chalmers Company *et al.* (See Cheney, H. W., assignor.)
- Allis-Chalmers Company. (See De Wein, G. F., assignor.)
- Allis-Chalmers Company *et al.* (See Elshoff, B., assignor.)
- Allis-Chalmers Company. (See Frankenfield, B., assignor.)
- Allis-Chalmers Company *et al.* (See Frankenfield, B., assignor.)
- Allis-Chalmers Company. (See Fulagar, H. F., assignor.)
- Allis-Chalmers Company. (See Harrison, A. E., assignor.)
- Allis-Chalmers Company. (See Hirt, F. E., assignor.)

*Alphabetical list of patentees—Continued.*

- Allis-Chalmers Company. (See Lord, C. E., assignor.)  
 Allis-Chalmers Company. (See Loveland, W. L., assignor.)  
 Allis-Chalmers Company. (See Manuel, T. N., assignor.)  
 Allis-Chalmers Company. (See Marcy, F. E., assignor.)  
 Allis-Chalmers Company *et al.* (See Mattman, E., assignor.)  
 Allis-Chalmers Company. (See McKee, R. A., assignor.)  
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 Allis-Chalmers Company. (See Pfau, A., assignor.)  
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 Allis-Chalmers Company *et al.* (See Ralston, H. H., assignor.)  
 Allis-Chalmers Company. (See Rennie, J. C., assignor.)  
 Allis-Chalmers Company. (See Richards, W. J., assignor.)  
 Allis-Chalmers Company *et al.* (See Schley, G. B., assignor.)  
 Allis-Chalmers Company. (See Shipley, G. B., assignor.)  
 Allis-Chalmers Company. (See Sprado, C. G., assignor.)  
 Allis-Chalmers Company. (See Stull, E. W., assignor.)  
 Allis-Chalmers Company *et al.* (See Stull, E. W., assignor.)  
 Allis-Chalmers Company. (See Tanner, W. N., assignor.)  
 Allis-Chalmers Company. (See Tomlinson, R. D., assignor.)  
 Allis-Chalmers Company. (See Tribe, J., assignor.)  
 Allis-Chalmers Company. (See Uhl, W. F., assignor.)  
 Allis-Chalmers Company *et al.* (See Van Valkenburg, H. L., assignor.)  
 Allis-Chalmers Company *et al.* (See Wouters, A. H., assignor.)  
 Allis-Chalmers Company *et al.* (See Yates, C. J., assignor.)  
 Allison, C., St. Louis, Mo. Sectional railway-rail. No. 918,640; Apr. 20; Sp. p. 3452; Gaz. vol. 141; p. 622.  
 Allison, D. K., assignor to Allis-Chalmers Company, Milwaukee, Wis. Vanner. No. 915,322; Mar. 16; Sp. p. 3444; Gaz. vol. 140; p. 600.  
 Allison, J. A., Indianapolis, Ind. Regulator-valve for compression-tanks. No. 926,378; June 29; Sp. p. 6881; Gaz. vol. 143; p. 1211.  
 Allison, J. E., assignor to Laclede Manufacturing Company, St. Louis, Mo. Ejecting device for vending-machines. No. 924,526; June 8; Sp. p. 3072; Gaz. vol. 143; p. 502.  
 Allison, P. H., Torrington, Conn. Combination center-square. No. 934,260; Sept. 14; Sp. p. 2621; Gaz. vol. 146; p. 434.  
 Allison, S. H., Berkeley, Cal. Book-lock. No. 910,260; Jan. 19; Sp. p. 3731; Gaz. vol. 138; p. 674.  
 Allison, W. D. (See Leonard, C. N., assignor.)  
 Allman, D. W., Toronto, Ontario, Canada. Water-heater. No. 938,623; Nov. 2; Sp. p. 400; Gaz. vol. 148; p. 60.  
 Allmon, L. (See McBratney, C., assignor.)  
 Allport, K. E., Chicago, Ill. Dress-shield. No. 919,299; Apr. 27; Sp. p. 5030; Gaz. vol. 141; p. 873.  
 Alfred, J. S., Troy, Ala. Abdominal support. No. 936,752; Oct. 12; Sp. p. 2413; Gaz. vol. 147; p. 402.  
 Als, E., assignor to Monarch Engineering and Manufacturing Company, Baltimore, Md. Furnace. No. 943,763; Dec. 21; Sp. p. 3730; Gaz. vol. 149; p. 649.  
 Allsop, T., and W. W. Sibson, assignors to Philadelphia Drying Machinery Company, Philadelphia, Pa. Circulating dyeing-machine. No. 918,484; Apr. 13; Sp. p. 3080; Gaz. vol. 141; p. 541.  
 Allsop, T., and W. W. Sibson, assignors to Philadelphia Drying Machinery Company, Philadelphia, Pa. Dyeingapparatus. No. 918,485; Apr. 13; Sp. p. 3086; Gaz. vol. 141; p. 542.  
 Allsop, T., and W. W. Sibson, assignors to Philadelphia Drying Machinery Company, Philadelphia, Pa. Singeing-machine. No. 919,999; Apr. 27; Sp. p. 6489; Gaz. vol. 141; p. 1108.  
 Allsop, T., and W. W. Sibson, assignors to Philadelphia Drying Machinery Company, Philadelphia, Pa. Singeing-machine. No. 930,116; Aug. 3; Sp. p. 1040; Gaz. vol. 145; p. 168.  
 Allsop, T., and W. W. Sibson, assignors to Philadelphia Drying Machinery Company, Philadelphia, Pa. Machine for drying yarn. No. 934,127; Sept. 14; Sp. p. 2374; Gaz. vol. 146; p. 389.  
 Allsop, J. M., Mitchell, Ind. Razor-sterilizing attachment for sterilizing-cabinets. No. 917,397; Apr. 6; Sp. p. 889; Gaz. vol. 141; p. 153.  
 Alwardt, H. A., assignor of one-half to W. J. Stapleton, Detroit, Mich. Bottle filling and crowning machine. No. 944,352; Dec. 28; Sp. p. 4964; Gaz. vol. 149; p. 875.  
 Alma Manufacturing Company. (See McVicker, W. J., assignor.)  
 Almy, E. M. (See Ford and Cunniff, assignors.)  
 Alp, P., New York, N. Y. Rocking-chair. No. 932,235; Aug. 24; Sp. p. 5539; Gaz. vol. 145; p. 943.  
 Alpenburg, L. von. (See Alpenburg, V. and L. von.)  
 Alpenburg, V. and L. von, West Hoboken, N. J. Making prepared sheets from cores of palm-trees. No. 917,516; Apr. 6; Sp. p. 1094; Gaz. vol. 141; p. 191.  
 Alperin, B. A., New York, N. Y. Automobile. No. 936,595; Oct. 12; Sp. p. 2094; Gaz. vol. 147; p. 348.  
 Alpha Jewelry Company. (See Swartz, F. M., assignor.)  
 Alphin, G. E., Mount Olive, N. C. Fertilizer-distributor. No. 941,603; Nov. 30; Sp. p. 6941; Gaz. vol. 148; p. 1174.  
 Already Box Company. (See Walter, H. B., assignor.)  
 Alsenz, J., Palisades Park, N. J. Time-recorder. No. 936,691; Oct. 12; Sp. p. 2303; Gaz. vol. 147; p. 382.  
 Alsop, C. R., Middletown, Conn. Reversing-gearing. No. 936,072; Oct. 5; Sp. p. 1000; Gaz. vol. 147; p. 151.  
 Alsop, O. D., Lancaster, Ohio. Fire-escape. No. 916,825; Mar. 30; Sp. p. 6390; Gaz. vol. 140; p. 1143.  
 Alston, J. S., Atlantic City, N. J. Bottle-cap. No. 930,916; Aug. 10; Sp. p. 2669; Gaz. vol. 145; p. 457.  
 Alston, N. F., Inez, N. C. Case for whips or like articles. No. 910,108; Jan. 19; Sp. p. 3369; Gaz. vol. 138; p. 619.  
 Alston, N. F., Inez, N. C. Car-fender. No. 929,071; July 27; Sp. p. 4900; Gaz. vol. 144; p. 874.  
 Alston, N. F., Inez, N. C. Case for whips or like articles. No. 933,044; Sept. 7; Sp. p. 2; Gaz. vol. 144; p. 3.  
 Alt, C. F., Warren, Pa. Culvert. No. 918,723; Apr. 20; Sp. p. 3678; Gaz. vol. 141; p. 652.  
 Altenberg, G. P. (See Fleischauer, E., assignor.)  
 Altenberg, G. P., Cincinnati, Ohio. Double-walled vessel. No. 923,236; June 1; Sp. p. 239; Gaz. vol. 143; p. 39.  
 Altenhofen, J., Richard, Iowa. Smoke-washer. No. 942,430; Dec. 7; Sp. p. 825; Gaz. vol. 149; p. 135.  
 Alter, J. L., Remington, Ind., and C. A. Einert, Clarksville, Ark. Attachment for doubletrees. No. 926,379; June 29; Sp. p. 6883; Gaz. vol. 143; p. 1211.  
 Alter, L. S. (See Barrett and Alter.)  
 Alter, T. E., Mount Pleasant, Iowa. Stirrup. No. 909,735; Jan. 12; Sp. p. 2631; Gaz. vol. 138; p. 465.  
 Altgelt, R. J. (See Paul and Altgelt.)  
 Althouse, W. E. (See Hintz and Althouse.)  
 Altman, E. F., St. Petersburg, Fla. Griddle-greaser. No. 917,517; Apr. 6; Sp. p. 1096; Gaz. vol. 141; p. 191.  
 Altman, J., Spokane, Wash. Penholder. No. 937,747; Oct. 26; Sp. p. 4478; Gaz. vol. 147; p. 777.  
 Altzaguirre, M., and J. Zubillaga, Vedado, Cuba. Producing sugar. No. 910,037; Jan. 19; Sp. p. 3233; Gaz. vol. 138; p. 596.  
 Altshul, J., assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. New mercury salt of para-aminophenylarsinic acid. No. 938,939; Nov. 2; Sp. p. 1072; Gaz. vol. 148; p. 170.  
 Altstadter, A., Huntington, Ind. Fire-escape. No. 916,247; Mar. 23; Sp. p. 5268; Gaz. vol. 140; p. 931.  
 Aluminum Company of America. (See Blough, E., assignor.)  
 Aluminum Company of America. (See Hall, C. M., assignor.)  
 Aluminum Company of America. (See McCulloch, G., assignor.)  
 Aluminum Company of America. (See Peffer, H. C., assignor.)  
 Alverson, C. S., San Diego, Cal. Adjusting appliance for type-writing machines. No. 941,294; Nov. 23; Sp. p. 6289; Gaz. vol. 148; p. 1052.  
 Alvord, J. J., Bridgeport, Conn. Shears. No. 918,942; Apr. 20; Sp. p. 4140; Gaz. vol. 141; p. 724.  
 Alwood, J. O., Manchester, assignor of one-third to L. N. Fox, Ashland, Va. Lantern. No. 937,748; Oct. 26; Sp. p. 4480; Gaz. vol. 147; p. 777.  
 Amalgamated Radio-Telegraph Company. (See Trautenberg, H. R. von, assignor.)  
 Amberg, A. M., Grand Rapids, Mich. Box-fastener. No. 925,443; June 22; Sp. p. 4934; Gaz. vol. 143; p. 871.  
 Ambert, A., Lyon, France. Rail-joint. No. 921,577; May 11; Sp. p. 2031; Gaz. vol. 142; p. 521.  
 Amble, O. A., Grand Forks, N. D. Threshing-machine. No. 938,624; Nov. 2; Sp. p. 406; Gaz. vol. 148; p. 61.  
 Ambler, A. C., Natick, Mass. Saw-setting machine. No. 942,531; Dec. 7; Sp. p. 1054; Gaz. vol. 149; p. 171.  
 Ambler, G. A., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting slugs or fastenings. No. 908,437; Jan. 5; Sp. p. 2; Gaz. vol. 138; p. 3.



*Alphabetical list of patentees—Continued.*

- Ambler, G. B., Leominster, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 933,613; Sept. 7; Sp. p. 1334; Gaz. vol. 146; p. 198.
- Ambrose, D., Ambridge, Pa. Safety gas-valve. No. 925,072; June 15; Sp. p. 4222; Gaz. vol. 143; p. 719.
- Ambrose, H. T. (See Donning, G. W., assignor.)
- Ambrose, N. M., *et al.* (See Dickerson, A., assignor.)
- Ambursen, N. F., Newton, Mass. Cart for distributing concrete, &c. No. 932,746; Aug. 31; Sp. p. 6596; Gaz. vol. 145; p. 1137.
- Andahl, L. M., Fillmore, assignor to one-half to Stenersen & Roholt, Esmond, N. D. Bundle-loader. No. 934,649; Sept. 21; Sp. p. 3380; Gaz. vol. 146; p. 589.
- Amelung, A. F., Sanborn, Iowa. Washing-machine. No. 944,935; Dec. 28; Sp. p. 6252; Gaz. vol. 149; p. 1074.
- Amend, J. E., Milwaukee, Wis. Pasteurizing holding-tank. No. 931,025; Aug. 17; Sp. p. 2938; Gaz. vol. 145; p. 520.
- American Air-Brake Company. (See Mann, W. B., assignor.)
- American Air Liquefying Co. (See Place, J. F., assignor.)
- American Auto Appliance Company. (See Garvey, E. A. and C. A., assignors.)
- American Automatic Fender Company. (See Nelson, F. A., assignor.)
- American Automatic Machinery Company. (See Heybach, F. J., assignor.)
- American Automatic Stoker Company. (See Strouse, W. H., assignor.)
- American Automatic Switch Company. (See Collins, R. V., assignor.)
- American Automatic Telephone Company. (See Bruce, W. M., Jr., assignor.)
- American Automatic Telephone Company. (See Lattig and Goodrum, assignors.)
- American Beauty Stove Co. (See Jordan, W. E., assignor.)
- American Blower Company. (See Davidson, S. C., assignor.)
- American Board and Box Co. (See Zell, H., assignor.)
- American Board and Box Co. (See Zell, H. J., assignor.)
- American Box Machine Company. (See Myers, E. W., assignor.)
- American Brake Shoe & Foundry Company. (See Nichols, W. G., assignor.)
- American Brass Novelty Company. (See Dooley, W. E., assignor.)
- American Bridge Company. (See Heald, J. H., Jr., assignor.)
- American Calking Machine Company. (See Childs, E. N., assignor.)
- American Callaphone Company. (See Kaufman and Lippmann, assignors.)
- American Can Company. (See Bucklin, C. S., assignor.)
- American Can Company. (See Carnes, E. W., assignor.)
- American Can Company. (See Chambers, W. J., assignor.)
- American Can Company. (See Dister, J., assignor.)
- American Can Company. (See Eberhart, F., assignor.)
- American Can Company. (See Hodgson, J. G., assignor.)
- American Can Company. (See Hothersall, J. M., assignor.)
- American Can Company. (See Lohs and E., assignor.)
- American Can Company. (See Marcuse and Clarke, assignors.)
- American Can Company. (See Miller, G. F., assignor.)
- American Can Company. (See Nelson and Ostlin, assignors.)
- American Can Company. (See Ostlin and Rudolph, assignors.)
- American Can Company. (See Philip, E. R., assignor.)
- American Can Company. (See Ross, H., assignor.)
- American Can Company. (See Rudolph, F., assignor.)
- American Can Company. (See Rudolph and Carnes, assignors.)
- American Can Company. (See Rudolph, F., assignor.)
- American Can Company. (See Sharp, L. C., assignor.)
- American Can Company. (See Stollberg, C., assignor.)
- American Can Company. (See Taylor, W. E., assignor.)
- American Can Company. (See Tevander, S., assignor.)
- American Can Company. (See Weber, G. W., assignor.)
- American Can Company. (See Weber, Eberhart, and Swangren, assignors.)
- American Can Company. (See Weber and Miller, assignors.)
- American Can Company. (See Xavier, J., assignor.)
- American Can Company. (See Young and Symonds, assignors.) (Reissue.)
- American Car & Foundry Company. (See Ames, J. H., assignor.)
- American Car & Foundry Company. (See Frame, R. E., assignor.)
- American Car & Foundry Company. (See Frame and Harrington, assignors.)
- American Car & Foundry Company. (See Frame and Rohlfing, assignors.)
- American Car & Foundry Company. (See Harrington, C. G., assignor.)
- American Car and Foundry Company. (See Ostrander, A. E., assignor.)
- American Car & Foundry Company. (See Wolf, H. W., assignor.)
- American Car Sprinkler Company. (See Perry, E. C., assignor.)
- American Case & Register Company. (See Tice, A. J., assignor.)
- American Casting Company. (See Dimick, D. B., assignor.)
- American Chemical Manufacturing & Mining Company. (See Blackmon, C. D., assignor.)
- American Chemical Manufacturing & Mining Company. (See La May, F. B., assignor.)
- American Chemical Manufacturing & Mining Company. (See Savage, E. S., assignor.)
- American Cigar Company. (See Weiss, N., assignor.)
- American Circular Loom Company. (See Brown, C. N., assignor.)
- American Circular Loom Company. (See Hoppe, O., assignor.)
- American Circular Loom Company. (See Lutz, G. A., assignor.)
- American Circular Loom Company. (See Thibodeau, C., assignor.)
- American Clay Machinery Co. (See Cunningham, W. R., assignor.)
- American Clay Machinery Company. (See Callaway, E. H., assignor.)
- American Coin Register Company. (See Ellis, C. S., assignor.)
- American Coin Register Company. (See Powell, F. D., assignor.)
- American Commerce & Specialty Co. (See Strauss, E. H., assignor.)
- American Concrete Piling Company. (See Welsh, L. E., assignor.)
- American Corset Stay Company. (See McCormick, H. M., assignor.)
- American Cut Glass Company. (See Anderson, W. C., assignor.)
- American Cutlery Company. (See Bastian and Granitz, assignors.)
- American Cutlery Company. (See Schwartz, M., assignor.)
- American Cyanamid Company. (See Peacock, S., assignor.)
- American Cystoscope Makers Inc. (See Wappler, R. H., assignor.)
- American Dairy Supply Company. (See Nichols, F. L., assignor.)
- American Dairy Supply Company. (See Wright, W. L., assignor.)
- American Designing & Reproducing Company. (See Korinek, A. C., assignor.)
- American District Telegraph Company. (See Bullock, H. S., Jr., assignor.)
- American Dynalite Company. (See Briggs, F. H., assignor.)
- American Electric Furnace Company. (See Hay, J. A., assignor.)
- American Electric Specialty Company. (See Newton, E. J., assignor.)
- American Electric Telephone Co. (See Brofos, E. A., assignor.)
- American Electric Telephone Company. (See Clausen, H. T., assignor.)
- American Electric Telephone Company. (See Dyson, A. H., assignor.)
- American Electrical Heater Company. (See Kuhn, F., assignor.)
- American Farm Products Company. (See Cooke and Fornander, assignors.)
- American Finishing Machinery Company. (See Birch, S., assignor.)
- American Firecracker Mfg. Company. (See Schulman, L. and J., assignors.)
- American Floor Surfacing Machine Company. (See Frugh, J. H., assignor.)
- American Forged Nut Company. (See Long, F. R. and C. E., assignors.)

*Alphabetical list of patentees—Continued.*

American Fork and Hoe Company. (See Withington, P. H., assignor.)  
 American Foundry and Furnace Co. (See Frost, N., assignor.)  
 American Fruit Machinery Co. (See Brenizer, O. W., assignor.)  
 American Fuel Company. (See Burnes, F., assignor.)  
 American Fuse Lighting Co. (See Myrick, C. C., assignor.)  
 American Gas Light Company. (See Maas, J., assignor.)  
 American Gas Tool Company. (See White and Duryea, assignors.) (Reissue.)  
 American Gasaccumulator Company. (See Dalén, G., assignor.)  
 American Gem Mining Syndicate. (See Wennstrom, J. L., assignor.)  
 American General Engineering Company. (See Boderck, C., assignor.)  
 American Glue Company. (See Tenney, G. S., assignor.)  
 American Grain Meter Company. (See Sonander, A., assignor.)  
 American Graphophone Company. (See Capps, F. L., assignor.)  
 American Graphophone Company. (See Haines, J. H. J., assignor.)  
 American Graphophone Company. (See Macdonald, T. H., assignor.)  
 American Gröndal, Kjellin Company. (See Gröndal, G., assignor.)  
 American Harrow Company. (See Wells, R. S., assignor.)  
 American Hoisting Machine Company. (See Harding and Spillman, assignors.)  
 American Industrial Co. (See Lunde, T. H., assignor.)  
 American Insulating Company. (See Fate, J. L., assignor.)  
 American Iron and Steel Alloys Company. (See Carpenter, F. R., assignor.)  
 American Iron and Steel Manufacturing Company. (See Culliney, J. V., assignor.)  
 American Ironing Machine Co. (See Grosse, H. G., assignor.)  
 American Key Can Company *et al.* (See Nordhaus, W. H., assignor.)  
 American Laundry Machinery Manufacturing Company. (See Hecker, H. A., assignor.)  
 American Laundry Machinery Manufacturing Company. (See Kreuter, A., assignor.)  
 American Lithographic Company. (See Murray, G. G., assignor.)  
 American Lithographic Company. (See Pancoast, G. E., assignor.)  
 American Locomotive Company. (See Ball, H. F., assignor.)  
 American Locomotive Company. (See Blunt, J. G., assignor.)  
 American Locomotive Company. (See Dalton, W., assignor.)  
 American Locomotive Company. (See Dalton and Woodard, assignors.)  
 American Locomotive Company. (See Gray, B. D., assignor.)  
 American Locomotive Company. (See Mellin and Cole, assignors.)  
 American Locomotive Company. (See Sheppard, W., assignor.)  
 American Locomotive Company. (See Stafford, H. R., assignor.)  
 American Locomotive Company. (See Steele, Player, and Mellin, assignors.)  
 American Locomotive Company. (See Woodard, W. E., assignor.)  
 American Locomotive Sander Company. (See King, C. W. G., assignor.)  
 American Machinery & Export Co. (See Swanger and Hueber, assignors.)  
 American Mahogany Company. (See Hall, W. A., assignor.)  
 American Marine Lamp Mfg. Co. (See Kleinberger and Stern, assignors.)  
 American Marmorite Company. (See Friedlaender, B., assignor.)  
 American Mason Safety Tread Company. (See Davis, A. L., assignor.)  
 American Metal Cap Company. (See Becher, O., assignor.)  
 American Metal Cap Company. (See Hammer, C., assignor.)  
 American Metal Door Company. (See Sjöbring, N. P., assignor.)  
 American Metal Wheel and Auto Company. (See Barschow, G. H., assignor.)  
 American Numbering Machine Company. (See Conrad, B. B., assignor.)  
 American Numbering Machine Company. (See Conrad and Sander, assignors.)  
 American Numbering Machine Company. (See Conrad, Sander, and Wright, assignors.)  
 American Numbering Machine Company. (See Sander, F., assignor.)  
 American Oil and Disinfectant Co. (See Rose, W. H., assignor.)  
 American Oil Engine Company. (See Johnston, P. D., assignor.)  
 American Optical Co. (See Day, G. H., assignor.)  
 American Optical Company. (See Laffin, S. C., assignor.)  
 American Palace Car Company. (See Pearson, H., assignor.)  
 American Paper Bottle Company. (See Kimsey, J. C., assignor.)  
 American Paper Cutter & Manufacturing Company. (See Rexford, L. P., assignor.)  
 American Perforated Music Co. (See Salyer, H. M., assignor.)  
 American Phosphorus Company. (See Landis, G. C., assignor.)  
 American Planograph Co. (See Cornwall, G. R., assignor.)  
 American Planograph Company. (See Brown, Hanrahan, and Sellar, assignors.)  
 American Pneumatic Service Company. (See Stoddard, C. F., assignor.)  
 American Post and Pole Company. (See Atchison, H. E., assignor.)  
 American Poultry Car Company. (See Burgett, H. W., assignor.)  
 American Powder Mills. (See Borland, C. R., assignor.)  
 American Printing House for the Blind. (See Huntoon and McCann, assignors.)  
 American Pulley Company. (See Zimmermann, J. E., assignor.)  
 American Radiator Company. (See Landon, A., assignor.)  
 American Recording Company. (See Pollock, R. A., assignor.)  
 American Recording Company. (See Smith, F. W., assignor.)  
 American Reduction Company. (See Rendall, G. F., assignor.)  
 American Reduction & Refining Company. (See Dawson, O. B., assignor.)  
 American Register Company. (See Ehrlich, L., assignor.)  
 American Resilient Wheel Company. (See Hill, L. A., assignor.)  
 American Road Machine Company. (See Phillips, E. S., assignor.)  
 American Road Machine Company. (See Ruth, W. T., assignor.)  
 American Sales Book Company. (See Fellows, A. W., assignor.)  
 American Sandstone Brick Machinery Company. (See Church, E. D., assignor.)  
 American Sanitary Works. (See Tilden, B. O., assignor.)  
 American Seeding Machine Company. (See Packham, F. R., assignor.)  
 American Seeding Machine Company. (See Towle, E. E., assignor.)  
 American Separator Company. (See Collins and Hartmann, assignors.)  
 American Shade Machine Company. (See Colpitts, C. N., assignor.)  
 American Sheet & Tin Plate Company. (See Beale, A. H., assignor.)  
 American Sheet & Tin Plate Company. (See Bray, C. W., assignor.)  
 American Sheet & Tin Plate Company. (See Brookman, D. S., assignor.)  
 American Sheet & Tin Plate Company. (See Cooper, S. M., assignor.)  
 American Sheet & Tin Plate Company. (See Davis, S. A., assignor.)  
 American Sheet & Tin Plate Company. (See Goodhue, W. L., assignor.)  
 American Sheet & Tin Plate Company. (See McArthur, A. R., assignor.)  
 American Shoe Finding Company. (See Waterman, B. B., assignor.)  
 American Sign Company. (See Smith, J. C., assignor.)  
 American Signal Company. (See Burgess, Y., assignor.)  
 American Signalling Company. (See Burgess, Y., assignor.)  
 American Silver Company. (See Holley, E. D., assignor.)  
 American Silver Company. (See Trehwella and Holley, assignors.)  
 American Sintering Company. (See Fettel, C. H., assignor.)  
 American Snuff Company. (See Thom, J. C., assignor.)  
 American Soldier Company. (See Beiser, C. W., assignor.)



*Alphabetical list of patentees—Continued.*

- American Specialty Manufacturing Company. (See Riehl, J. B., assignor.)  
 American Stamp & Ticket Vending Machine Company. (See Oehring, O., assignor.)  
 American Steam Gauge & Valve Manufacturing Company. (See Jerauld, W. E., assignor.)  
 American Steam Gauge & Valve Manufacturing Company. (See Kaplinger, C. H., assignor.)  
 American Steel Foundries. (See Allen, H. L., assignor.)  
 American Steel Foundries. (See Floyd, G. G., assignor.)  
 American Steel Foundries. (See Kinne, E. P., assignor.)  
 American Steel Foundries. (See Lamont, R. P., assignor.)  
 American Steel Foundries. (See McCauley, A. J., assignor.)  
 American Steel Foundries. (See Murray, C. F., assignor.)  
 American Steel Foundries. (See Plaisted, H. M., assignor.)  
 American Steel Package Company. (See Kruse, A. T., assignor.)  
 American Steel & Wire Company. (See Daniels, Cogill, and Fray, assignors.)  
 American Steel & Wire Company. (See Haynes and Cocker, assignors.)  
 American Steel and Wire Company. (See Huxley, H. M., assignor.)  
 American Steel & Wire Company. (See Kilmer, W. A., assignor.)  
 American Steel & Wire Company. (See Sprague, A. W., assignor.)  
 American Steel & Wire Company. (See Sprague and Mulroyan, assignors.)  
 American Steel & Wire Company. (See Sturdevant, C. R., assignor.)  
 American Sterilizer Company. (See Wiley and Hall, assignors.)  
 American Stopper Company. (See Hoffman, E., assignor.)  
 American Stove Company. (See Blackford, A. J., assignor.)  
 American Stove Company. (See Harvey, J. G., assignor.)  
 American Stove Company. (See Hoffman, R., assignor.)  
 American Stove Company. (See Ruppel, H., assignor.)  
 American Stove Company. (See Stockstrom, L., assignor.)  
 American Sugar Refining Company. (See Pool, J. F., assignor.)  
 American Suspension Railway Company. (See Butler, F. O., assignor.)  
 American Suspension Railway Company. (See Pfautz and Luckenbach, assignors.)  
 American Suspension Railway Company. (See Smith, J. H., assignor.)  
 American Telephone Company. (See Hytten, E. A., assignor.)  
 American Telephone Company. (See Schaefer, F., assignor.)  
 American Telephone Company. (See Stuart, H. R., assignor.)  
 American Telephone and Telegraph Company. (See Athearn, W. E., assignor.)  
 American Telephone and Telegraph Company. (See Barrett, J. A., assignor.)  
 American Telephone and Telegraph Company. (See Browne, S. H., assignor.)  
 American Telephone and Telegraph Company. (See Christensen, W., assignor.)  
 American Telephone and Telegraph Company. (See Falk, O. F., assignor.)  
 American Telephone and Telegraph Company. (See Hulfish, D. S., assignor.)  
 American Telephone and Telegraph Company. (See Molina, E. C., assignor.)  
 American Telephone and Telegraph Company. (See Shreeve, H. E., assignor.)  
 American Telephone and Telegraph Company. (See Skidmore, J. J., assignor.)  
 American Telephone and Telegraph Company. (See Spiegel, A. S., assignor.)  
 American Telpher Company. (See Harris, B. W., assignor.)  
 American Thermos Bottle Company. (See Anacker, M., assignor.)  
 American Thermos Bottle Company. (See Aschenbrenner, A., assignor.)  
 American Thermos Bottle Company. (See Henn, H., assignor.)  
 American Thermos Bottle Company. (See Neuner, M., assignor.)  
 American Thermos Bottle Company. (See Paalen, G. R., assignor.)  
 American Thermos Bottle Company. (See Reed, C. S., assignor.)  
 American Tobacco Company. (See Feist, L., assignor.)  
 American Tobacco Company. (See Harris, F. R., assignor.)  
 American Tobacco Company. (See Howard, J. H., assignor.)  
 American Tobacco Company. (See Prescott, S. I., assignor.)  
 American Tobacco Company. (See Tucker, B. W., assignor.)  
 American Tool & Machine Company. (See Goddard, G. N., assignor.)  
 American Tool Works Company. (See Robinson, A. E., assignor.)  
 American Tool Works Company. (See Schatz, H. W., assignor.)  
 American Type-Bar Machine Company. (See Dodson, D. W., assignor.)  
 American Type Founders Company. (See Benton, L. B., assignor.)  
 American Typographic Corporation. (See Richards, F. H., assignor.)  
 American Universal Mill Company. (See Grey, H., assignor.)  
 American Valve & Meter Company. (See Anderson, F. C., assignor.)  
 American Watch Tool Company. (See Derbyshire, F. W., assignor.)  
 American Water Main Cleaning and Contracting Co. (See Greenan and Redford, assignors.)  
 American Well Works. (See Chapman, M. T., assignor.)  
 American Wheel Company. (See Blean, R. C., assignor.)  
 American Wood Working Machinery Co. (See Perkins, H. A., assignor.)  
 American Wood Working Machinery Co. (See Perkins and Clement, assignors.)  
 Americus Electro-Hermatic Company. (See Dion, L., assignor.)  
 Ames, B. L., Boston, Mass. Time-operated smoke-preventer. No. 932,667; Aug. 31; Sp. p. 6442; Gaz. vol. 145; p. 1111.  
 Ames, B. L., Boston, Mass. Time-controlled smoke-preventer. No. 942,131; Dec. 7; Sp. p. 223; Gaz. vol. 149; p. 34.  
 Ames, B. S., Williamsport, Pa. Electric animal-exterminator. No. 922,377; May 18; Sp. p. 4674; Gaz. vol. 142; p. 811.  
 Ames, J. F., Portland, Oreg. Bag-machine. No. 911,563; Feb. 9; Sp. p. 1041; Gaz. vol. 139; p. 205.  
 Ames, J. H., Oak Park, Ill., assignor to American Car & Foundry Company. Machine for cutting dome-heads. No. 936,073; Oct. 5; Sp. p. 1005; Gaz. vol. 147; p. 151.  
 Ames, J. H., Oak Park, assignor to American Car & Foundry Company, Chicago, Ill. Die-stripper. No. 938,940; Nov. 2; Sp. p. 1073; Gaz. vol. 148; p. 170.  
 Ames, J. M., Dongan Hills, N. Y. Underframe for tank-cars. No. 928,924; July 27; Sp. p. 4598; Gaz. vol. 144; p. 826.  
 Ames, J. M., Dongan Hills, N. Y. Car-underframe. No. 928,925; July 27; Sp. p. 4603; Gaz. vol. 144; p. 826.  
 Ames, J. M., Dongan Hills, N. Y. Separable cast bolster. No. 928,926; July 27; Sp. p. 4606; Gaz. vol. 144; p. 826.  
 Ames, M. E., assignor of one-half to F. R. Jenkins, Chicago, Ill. Panel-board for electric-power distribution. No. 919,516; Apr. 27; Sp. p. 5510; Gaz. vol. 141; p. 946.  
 Ames, M. E., and J. H. Goehst, Chicago, Ill. Floor-box for electric-conductor terminals. No. 910,261; Jan. 19; Sp. p. 3732; Gaz. vol. 138; p. 674.  
 Ames, O., Milton, and I. W. Litchfield, Boston, Mass., assignors to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 923,237; June 1; Sp. p. 240; Gaz. vol. 143; p. 40.  
 Ames, W. V. B., Chicago, Ill. Cement ingredient. No. 923,238; June 1; Sp. p. 242; Gaz. vol. 143; p. 40.  
 Amet, E. H., assignor to International Amet Company, Phoenix, Ariz. Ter. Gas cooler and cleaner. No. 931,018; Aug. 10; Sp. p. 2912; Gaz. vol. 145; p. 490.  
 Amick, H. J., Handley, assignor of one-half to V. A. Heffner, Divide, W. Va. Mail-bag catching and delivering apparatus. No. 909,048; Jan. 5; Sp. p. 1253; Gaz. vol. 138; p. 201.  
 Amies Asphalt Company. (See Amies, J. H., assignor.)  
 Amies, J. H., assignor to Amies Asphalt Company, Philadelphia, Pa. Manufacturing a mastic for paving. No. 929,813; Aug. 3; Sp. p. 391; Gaz. vol. 145; p. 65.  
 Amies, J. H., assignor to Amies Asphalt Company, Philadelphia, Pa. Making and laying paving composition. No. 932,941; Aug. 31; Sp. p. 6983; Gaz. vol. 145; p. 1199.  
 Amies, J. H., assignor to Amies Asphalt Company, Philadelphia, Pa. Sheet-wood paving. No. 934,030; Sept. 14; Sp. p. 2153; Gaz. vol. 146; p. 356.  
 Amies, J. H., assignor to Amies Asphalt Company, Philadelphia, Pa. Composition for paving purposes. No. 934,494; Sept. 21; Sp. p. 3073; Gaz. vol. 146; p. 536.

*Alphabetical list of patentees—Continued.*

- Amies, J. H., assignor to Amies Asphalt Company, Philadelphia, Pa. Paving composition. No. 934,495; Sept. 21; Sp. p. 3073; Gaz. vol. 146; p. 536.
- Amies, J. H., assignor to Amies Asphalt Company, Philadelphia, Pa. Composition for binding, surfacing, and resurfacing purposes in street and road building. No. 935,572; Sept. 28; Sp. p. 5242; Gaz. vol. 146; p. 920.
- Amies, J. H., assignor to Amies Asphalt Company, Philadelphia, Pa. Bituminous cement. No. 935,573; Sept. 28; Sp. p. 5243; Gaz. vol. 146; p. 920.
- Amies, J. H., assignor to Amies Asphalt Company, Philadelphia, Pa. Road and street construction. No. 941,548; Nov. 30; Sp. p. 6833; Gaz. vol. 148; p. 1157.
- Amies, J. H., assignor to Amies Asphalt Company, Philadelphia, Pa. Preparing mineral materials and the like for street and road construction. No. 942,235; Dec. 7; Sp. p. 449; Gaz. vol. 149; p. 69.
- Amies, J. H., assignor to Amies Asphalt Company, Philadelphia, Pa. Composition for paving purposes. No. 942,236; Dec. 7; Sp. p. 449; Gaz. vol. 149; p. 69.
- Amies, J. H., assignor to Amies Asphalt Company, Philadelphia, Pa. Paving composition. No. 942,237; Dec. 7; Sp. p. 450; Gaz. vol. 149; p. 69.
- Amie, P. W., Binford, N. D. Animal-poke. No. 940,573; Nov. 16; Sp. p. 4729; Gaz. vol. 148; p. 787.
- Ammen, F. D., New York, N. Y. Electric sign. No. 927,018; July 6; Sp. p. 650; Gaz. vol. 144; p. 106.
- Ammentorp, A., Hamburg, Germany. Gas-generator. No. 911,801; Feb. 9; Sp. p. 1519; Gaz. vol. 139; p. 284.
- Ammerman, W. M., New Haven, Conn., assignor, by mesne assignments, to A. E. Avery, administratrix of E. J. Toof, deceased. Thread-controlling mechanism for sewing-machines. No. 912,522; Feb. 16; Sp. p. 3100; Gaz. vol. 139; p. 537.
- Ammonia Cyanide Engineering Company. (See Mosher, D., assignor.)
- Amnellus, T., South Framingham, Mass. Propeller. No. 933,151; Sept. 7; Sp. p. 233; Gaz. vol. 146; p. 40.
- Amnellus, T., South Framingham, Mass. Propeller. No. 936,508; Oct. 12; Sp. p. 1929; Gaz. vol. 147; p. 318.
- Amnellus, T., South Framingham, Mass. Last. No. 937,982; Oct. 26; Sp. p. 4967; Gaz. vol. 147; p. 856.
- Amon, W. A., Washington, Pa. Photographic washing-tank. No. 926,380; June 29; Sp. p. 6885; Gaz. vol. 143; p. 1212.
- Amos, B. F., Rocky Hill Station, Ky. Saddletree. No. 914,546; Mar. 9; Sp. p. 1879; Gaz. vol. 140; p. 320.
- Amos, G. W., St. Charles, assignor of one-half to W. Blumhof, Wentzville, Mo. Railway-joint. No. 941,604; Nov. 30; Sp. p. 6943; Gaz. vol. 148; p. 1175.
- Amos, R. R., Portland, Oreg. Shaft-bearing. No. 936,286; Oct. 12; Sp. p. 1409; Gaz. vol. 147; p. 244.
- Amos, W., Providence, R. I. Apparatus for setting the fractured bones of the leg. No. 937,354; Oct. 19; Sp. p. 3651; Gaz. vol. 147; p. 628.
- Amphion Piano Player Company. (See Doman, L. B., assignor.)
- Amsbary, W. N., assignor of five-twelfths to L. D. Denney and one-sixth to W. Simpson, Denver, Colo. Refrigerator. No. 944,353; Dec. 28; Sp. p. 4970; Gaz. vol. 149; p. 876.
- Amsbry, F. M., Binghamton, N. Y. Horse-bit. No. 914,219; Mar. 2; Sp. p. 1199; Gaz. vol. 140; p. 188.
- Amster, S., Amster, Ky. Ax. No. 937,911; Oct. 26; Sp. p. 4820; Gaz. vol. 147; p. 833.
- Amundson, T. J., Chicago, Ill. Printer's quoin. No. 940,113; Nov. 16; Sp. p. 3701; Gaz. vol. 148; p. 630.
- Anacker, M., Berlin, Germany, assignor to American Thermos Bottle Company, Brooklyn, N. Y. Double-walled vessel. No. 919,517; Apr. 27; Sp. p. 5514; Gaz. vol. 141; p. 947.
- Anchor Spring and Bedding Company. (See Wood, E. H., assignor.)
- Anchor Stove and Range Company. (See Pope and Kahl, assignors.)
- Anchor Supply Company. (See Nehring, W., assignor.)
- Andalaft, A. G. and M., Kansas City, Mo. Cone-waffle-packing case. No. 943,292; Dec. 14; Sp. p. 2715; Gaz. vol. 149; p. 458.
- Andalaft, A. G. and M., Kansas City, Mo. Cone-waffle machine. No. 943,293; Dec. 14; Sp. p. 2716; Gaz. vol. 149; p. 459.
- Andalaft, M. (See Andalaft, A. G. and M.)
- Anderberg, F. H., Alta, Iowa. Root-beer dispenser. No. 932,942; Aug. 31; Sp. p. 6984; Gaz. vol. 145; p. 1199.
- Anderholm, P., Hibbing, Minn. Wrench. No. 937,562; Oct. 19; Sp. p. 4113; Gaz. vol. 147; p. 700.
- Anders, A., Charlottenburg, Germany. Device for converting ordinary clocks into clocks with electric driving means. No. 929,531; July 27; Sp. p. 5837; Gaz. vol. 144; p. 1026.
- Andersen, B., Kansas City, Kans. Vapor-bath apparatus. No. 927,629; July 13; Sp. p. 1928; Gaz. vol. 144; p. 338.
- Andersen, G., Chicago, Ill. Stoker. No. 941,486; Nov. 30; Sp. p. 6713; Gaz. vol. 148; p. 1137.
- Andersen, L., Liverpool, England. Standard or support for wire fences, wire entanglements, and the like. No. 931,554; Aug. 17; Sp. p. 4048; Gaz. vol. 145; p. 698.
- Andersen, L., and M. Hansen, New York, N. Y. Door-lock guard. No. 913,800; Mar. 2; Sp. p. 259; Gaz. vol. 140; p. 44.
- Andersen, R. P., Los Angeles, Cal. Fruit-picker. No. 929,647; Aug. 3; Sp. p. 2; Gaz. vol. 145; p. 3.
- Anderson, A. (See Anderson, A., assignor.)
- Anderson, A., *et al.* (See Ruehs, C. L., assignor.)
- Anderson, A., Ironwood, Mich. Nail and board puller. No. 935,727; Oct. 5; Sp. p. 219; Gaz. vol. 147; p. 36.
- Anderson, A., Benkelman, Nebr. Fire-escape. No. 938,625; Nov. 2; Sp. p. 408; Gaz. vol. 148; p. 61.
- Anderson, A., assignor of one-eighth to A. Anderson, Doyon, N. D. Bundle-carrying attachment for harvesters. No. 909,855; Jan. 19; Sp. p. 2861; Gaz. vol. 138; p. 535.
- Anderson, A., assignor to V. Butterfield and J. Anderson, Minneapolis, Minn. Mechanism for opening and closing sliding doors. No. 933,284; Sept. 7; Sp. p. 580; Gaz. vol. 145; p. 89.
- Anderson, A., assignor of one-third to C. Steinhilper and one-third to J. E. Faucart, Williamsport, Pa. Band-saw. No. 936,596; Oct. 12; Sp. p. 2097; Gaz. vol. 147; p. 349.
- Anderson, A., assignor to N. J. Olsen and G. C. Harper, Minneapolis, Minn. Railway-switch. No. 944,249; Dec. 28; Sp. p. 4743; Gaz. vol. 149; p. 839.
- Anderson, A. C., Stirling Point, Bluff, New Zealand. Agricultural implement. No. 908,721; Jan. 5; Sp. p. 623; Gaz. vol. 138; p. 97.
- Anderson, A. E., *et al.* (See Drew, E. N., assignor.)
- Anderson, A. E. (See Trice, B. P., assignor.)
- Anderson, A. G., Worcester, Mass., assignor to Worcester Pressed Steel Company. Making ball-cups. No. 927,311; July 6; Sp. p. 1240; Gaz. vol. 144; p. 204.
- Anderson, A. J., Houston, Minn. Corn-planter. No. 941,485; Nov. 30; Sp. p. 6711; Gaz. vol. 148; p. 1137.
- Anderson, A. M., and C. Quesnell, assignors to Idaho National Harvester Company, Moscow, Idaho. Pitman-drive. No. 920,000; Apr. 27; Sp. p. 6493; Gaz. vol. 141; p. 1108.
- Anderson, A. M., and C. Quesnell, assignors to Idaho National Harvester Company, Moscow, Idaho. Harvester. No. 920,001; Apr. 27; Sp. p. 6495; Gaz. vol. 141; p. 1109.
- Anderson, A. M., and C. Quesnell, assignors to Idaho National Harvester Company, Moscow, Idaho. Harvester-conveyer. No. 926,043; June 22; Sp. p. 6175; Gaz. vol. 143; p. 1056.
- Anderson-Barngrover Mfg. Co. (See Anderson, W. C., assignor.)
- Anderson, C., Chicago, Ill. Buttonhole-cutter. No. 920,238; May 4; Sp. p. 293; Gaz. vol. 142; p. 47.
- Anderson, C., assignor of one-fourth to T. E. Torrison, Manitowish, Wis. Hinge. No. 929,646; Aug. 3; Sp. p. 1; Gaz. vol. 145; p. 3.
- Anderson, C., Malheur county, Oreg., and H. M. Ruddock, Caldwell, Idaho. Hydraulic motor. No. 934,128; Sept. 14; Sp. p. 2378; Gaz. vol. 146; p. 389.
- Anderson, C. A., *et al.* (See Hagstrom, W., assignor.)
- Anderson, C. A., Altoona, Pa. Furnace-door operator. No. 922,234; May 18; Sp. p. 4410; Gaz. vol. 142; p. 765.
- Anderson, C. A., Vista Grand, assignor of one-half to E. M. Stehn, San Francisco, Cal. Non-refillable bottle. No. 922,998; May 25; Sp. p. 5974; Gaz. vol. 142; p. 1042.
- Anderson, C. A., Salina, and W. Hagstrom, Lindsborg, assignors, by direct and mesne assignments, of two-thirds to Anderson Electric and Manufacturing Company, McPherson, and one-third to Hagstrom Brothers Manufacturing Company, Lindsborg, Kans. Telephone-exchange. No. 938,943; Nov. 2; Sp. p. 1077; Gaz. vol. 148; p. 171.
- Anderson, C. A., Salina, and W. Hagstrom, Lindsborg, assignors to Anderson Electric and Manufacturing Company, McPherson, and Hagstrom Brothers Manufacturing Company, Lindsborg, Kans. Calling device for telephone-exchanges. No. 938,944; Nov. 2; Sp. p. 1082; Gaz. vol. 148; p. 172.
- Anderson, C. B., and T. J. Flavin, Gunnison, Colo. Leveling device. No. 923,612; June 1; Sp. p. 1125; Gaz. vol. 143; p. 172.
- Anderson, C. F., Guttentberg, assignor of one-half to G. L. Earle, Union Hill, N. J. Hinge. No. 924,412; June 8; Sp. p. 2852; Gaz. vol. 143; p. 466.
- Anderson, C. G. (See McAllister, Anderson, and Hawkins.)
- Anderson, C. H., Seattle, Wash. Car-bolster. No. 941,591; Nov. 30; Sp. p. 7136; Gaz. vol. 148; p. 1204.
- Anderson, C. H., Seattle, Wash. Steel car. No. 943,213; Dec. 14; Sp. p. 2540; Gaz. vol. 149; p. 430.
- Anderson, C. J., Newburyport, Mass. Fastener for shoe-laces. No. 914,628; Mar. 9; Sp. p. 2043; Gaz. vol. 140; p. 348.
- Anderson, C. J., assignor to J. L. Schureman Co., Chicago, Ill. Solenoid. No. 919,672; Apr. 27; Sp. p. 5830; Gaz. vol. 141; p. 1000.
- Anderson, C. O., Brigham, Utah. Buckle. No. 926,634; June 29; Sp. p. 7350; Gaz. vol. 143; p. 1297.
- Anderson, C. O., assignor of one-half to A. T. Austin, Omaha, Nebr. Automatic slack-adjuster. No. 910,262; Jan. 19; Sp. p. 3734; Gaz. vol. 138; p. 674.



*Alphabetical list of patentees—Continued.*

- Anderson, C. O., assignor to A. T. Austin, Omaha, Nebr. Automatic slack-adjuster. No. 922,552; May 25; Sp. p. 5055; Gaz. vol. 142; p. 898.
- Anderson, C. O., assignor of one-half to A. T. Austin, Omaha, Nebr. Automatic slack-adjuster. No. 923,927; June 8; Sp. p. 1832; Gaz. vol. 143; p. 306.
- Anderson, C. P., *et al.* (See Stewart, A. C., assignor.)
- Anderson, C. R., Bellevue, Pa. Coal-auger. No. 938,941; Nov. 2; Sp. p. 1075; Gaz. vol. 148; p. 171.
- Anderson, C. R., Bellevue, Pa. Lamp-holding attachment for miners' caps. No. 938,942; Nov. 2; Sp. p. 1076; Gaz. vol. 148; p. 171.
- Anderson, D., Westcliff-on-Sea, England. Incandescent mantle and burner therefor. No. 911,360; Feb. 2; Sp. p. 660; Gaz. vol. 139; p. 112.
- Anderson, E., Alto Pass, Ill. Fuel-conveyer for furnaces. No. 912,931; Feb. 16; Sp. p. 3938; Gaz. vol. 139; p. 693.
- Anderson, E. A., Swea City, Iowa. Tile-ditching machine. No. 911,564; Feb. 9; Sp. p. 1048; Gaz. vol. 139; p. 206.
- Anderson, E. B., Rock Falls, Ill. Spring-wheel. No. 922,653; May 25; Sp. p. 5276; Gaz. vol. 142; p. 932.
- Anderson, E. C., Downers Grove, Ill. Car-framework. No. 931,555; Aug. 17; Sp. p. 4049; Gaz. vol. 145; p. 698.
- Anderson, E. E. (See Eells and Anderson.)
- Anderson, E. H., Schenectady, N. Y., assignor to General Electric Company. Field-spool for electric motors. No. 916,961; Apr. 6; Sp. p. 3; Gaz. vol. 141; p. 3.
- Anderson, E. L., Attleboro, Mass. Stud or button. No. 928,622; July 20; Sp. p. 3996; Gaz. vol. 144; p. 697.
- Anderson, E. L., assignor to Standard Button Company, Attleboro, Mass. Bracelet. No. 908,931; Jan. 5; Sp. p. 1026; Gaz. vol. 138; p. 165.
- Anderson, E. M., Victoria, British Columbia, Canada. Drum and cymbal beater. No. 924,302; June 8; Sp. p. 2639; Gaz. vol. 143; p. 429.
- Anderson, E. O., St. Paul, Minn. Printing-press guide. No. 937,271; Oct. 19; Sp. p. 3487; Gaz. vol. 147; p. 603.
- Anderson, E. V., Monessen, Pa. Valve. No. 909,510; Jan. 12; Sp. p. 2185; Gaz. vol. 138; p. 387.
- Anderson, E. V., Monessen, assignor to Golden-Anderson Valve Specialty Company, Pittsburg, Pa. Valve mechanism. No. 917,740; Apr. 6; Sp. p. 1513; Gaz. vol. 141; p. 265.
- Anderson, E. V., Monessen, assignor to Golden-Anderson Valve Specialty Company, Pittsburg, Pa. Relief-valve. No. 919,300; Apr. 27; Sp. p. 5032; Gaz. vol. 141; p. 873.
- Anderson, E. V., Monessen, assignor to Golden-Anderson Valve Specialty Company, Pittsburg, Pa. Non-return valve. No. 944,402; Dec. 28; Sp. p. 5077; Gaz. vol. 149; p. 894.
- Anderson, E. W., assignor of one-half to C. W. Webb, Baltimore, Md. Artificial-stone composition. No. 927,312; July 6; Sp. p. 1240; Gaz. vol. 144; p. 204.
- Anderson Electric and Manufacturing Company *et al.* (See Anderson and Hagstrom, assignors.)
- Anderson Electric and Manufacturing Company. (See Norstrom, N. E., assignor.)
- Anderson, F. B., Cleveland, Ohio. Oil-filter. No. 915,650; Mar. 16; Sp. p. 4117; Gaz. vol. 140; p. 712.
- Anderson, F. B., Cleveland, Ohio. Filter. No. 928,576; July 20; Sp. p. 3905; Gaz. vol. 144; p. 682.
- Anderson, F. C., assignor to American Valve & Meter Company, Cincinnati, Ohio. Switch-stand. No. 913,185; Feb. 23; Sp. p. 4460; Gaz. vol. 139; p. 804.
- Anderson, F. L., assignor to Pieced Stay Machinery Company, Haverhill, Mass. Eyelet-stay-joining machine. No. 913,934; Mar. 2; Sp. p. 575; Gaz. vol. 140; p. 92.
- Anderson, F. O., Jamestown, N. Y. Dresser. No. 924,872; June 15; Sp. p. 3821; Gaz. vol. 143; p. 653.
- Anderson, F. W., Middletown, N. Y. Folding table. No. 940,963; Nov. 16; Sp. p. 3333; Gaz. vol. 148; p. 577.
- Anderson, G., Bladen, Nebr. Connecting-bar for harrows. No. 942,532; Dec. 7; Sp. p. 1057; Gaz. vol. 149; p. 171.
- Anderson, G. A., Kansas City, Kans. Hose-coupling. No. 935,082; Sept. 28; Sp. p. 4248; Gaz. vol. 146; p. 759.
- Anderson, G. A., Fargo, N. D. Mechanical movement. No. 941,003; Nov. 23; Sp. p. 5652; Gaz. vol. 148; p. 955.
- Anderson, G. B., Hyde Park, assignor to J. F. M. Farquhar, Boston, Mass. Ventilator for greenhouses. No. 919,673; Apr. 27; Sp. p. 5832; Gaz. vol. 141; p. 1001.
- Anderson, G. C., assignor of one-fourth to W. N. Sutton, Springfield, Ill. Card cutter and marker. No. 918,412; Apr. 13; Sp. p. 2934; Gaz. vol. 141; p. 517.
- Anderson, G. V., assignor of one-half to F. F. Slocumb & Company, Wilmington, Del. Leather-working machine. No. 924,873; June 15; Sp. p. 3822; Gaz. vol. 143; p. 653.
- Anderson, H. (See Anderson, W. and H.)
- Anderson, H., Haddonfield, N. J. Automatic fire-alarm box. No. 917,235; Apr. 6; Sp. p. 557; Gaz. vol. 141; p. 97.
- Anderson, H. A., Grantsburg, Wis. Negotiable instrument. No. 931,246; Aug. 17; Sp. p. 3433; Gaz. vol. 145; p. 596.
- Anderson, H. B. (See Winton and Anderson.)
- Anderson, H. B., Lampasas, Tex. Poultry drinking-fountain. No. 928,836; July 20; Sp. p. 4413; Gaz. vol. 144; p. 769.
- Anderson, H. C., Chicago, Ill. Hoisting apparatus. No. 917,919; Apr. 13; Sp. p. 1940; Gaz. vol. 141; p. 351.
- Anderson, H. C., Stanford, Ky. Hemp-brake. No. 921,499; May 11; Sp. p. 2886; Gaz. vol. 142; p. 497.
- Anderson, H. C., Unionport, and F. S. Ash, New York, N. Y. Non-refillable bottle. No. 943,331; Dec. 14; Sp. p. 2792; Gaz. vol. 149; p. 470.
- Anderson, H. F., Kansas City, Mo. Printing-press. No. 911,930; Feb. 9; Sp. p. 1759; Gaz. vol. 139; p. 326.
- Anderson, H. S., Chicago, Ill. Maternity-corset. No. 912,769; Feb. 16; Sp. p. 3654; Gaz. vol. 139; p. 644.
- Anderson, H. T., *et al.* (See Frederick, L., assignor.)
- Anderson, I., Evanston, Ill. Collapsible garment-hanger. No. 920,240; May 4; Sp. p. 297; Gaz. vol. 142; p. 48.
- Anderson, I., assignor of one-half to N. Pearson, Puyallup, Wash. Boat. No. 913,868; Mar. 2; Sp. p. 423; Gaz. vol. 140; p. 68.
- Anderson, I. N., assignor of one-half to F. J. Johnson, Racine, Wis. Nut-lock. No. 928,577; July 20; Sp. p. 3907; Gaz. vol. 144; p. 682.
- Anderson, J., *et al.* (See Anderson, A., assignor.)
- Anderson, J. (See Glasrud and Anderson.)
- Anderson, J., *et al.* (See Hagstrom, W., assignor.)
- Anderson, J., Lincoln, Kans. Metal railway-track crossing. No. 918,113; Apr. 13; Sp. p. 2347; Gaz. vol. 141; p. 420.
- Anderson, J., Chicago, Ill. Gun-carrier. No. 919,301; Apr. 27; Sp. p. 5033; Gaz. vol. 141; p. 874.
- Anderson, J., Helena, Mont. Mail-pouch catcher. No. 920,002; Apr. 27; Sp. p. 6496; Gaz. vol. 141; p. 1109.
- Anderson, J., Galena, Kans. Elevator-belt pulley. No. 931,982; Aug. 24; Sp. p. 5016; Gaz. vol. 145; p. 859.
- Anderson, J., assignor to Montauk Engineering Company, New York, N. Y. Condenser. No. 936,397; Oct. 12; Sp. p. 1661; Gaz. vol. 147; p. 282.
- Anderson, J., assignor of one-fourth to H. L. Gill, Portland, Oreg., and one-fourth to J. W. Brem, San Diego, Cal. Mortising-tool. No. 912,523; Feb. 16; Sp. p. 3103; Gaz. vol. 139; p. 558.
- Anderson, J., assignor of one-third to E. S. Patterson and one-third to C. A. Sweet, Chicago, Ill. Flash-light. No. 938,945; Nov. 2; Sp. p. 1087; Gaz. vol. 148; p. 172.
- Anderson, J. A. (See Krantz and Smith, assignors.)
- Anderson, J. A., Geneseo, Ill. Dropping mechanism for planters. No. 911,691; Feb. 9; Sp. p. 1334; Gaz. vol. 139; p. 248.
- Anderson, J. B., Shaler township, Allegheny county, assignor of one-third to L. H. Steitz and one-third to J. E. Baines, Allegheny county, Pa. Clothes-pin. No. 914,691; Mar. 9; Sp. p. 2190; Gaz. vol. 140; p. 367.
- Anderson, J. C., Washington, D. C. Spark-plug. No. 936,507; Oct. 12; Sp. p. 1926; Gaz. vol. 147; p. 318.
- Anderson, J. C., Highland Park, Ill. Proportional meter. No. 940,114; Nov. 16; Sp. p. 3702; Gaz. vol. 148; p. 631.
- Anderson, J. M., Franklin county, Tex. Machine for catching insects. No. 944,122; Dec. 21; Sp. p. 4500; Gaz. vol. 149; p. 772.
- Anderson, J. O., Bercail, Mont. Mail receiver and deliverer. No. 920,239; May 4; Sp. p. 294; Gaz. vol. 142; p. 48.
- Anderson, J. O., Chicago, Ill. Mechanic's tool. No. 923,313; June 1; Sp. p. 474; Gaz. vol. 143; p. 67.
- Anderson, J. O., Souris, N. D. Combined window-shade and lace-curtain holder. No. 927,090; July 6; Sp. p. 827; Gaz. vol. 144; p. 132.
- Anderson, J. R., Pittsfield, Mass., assignor, by mesne assignments, to General Electric Company. Variable-speed transmission device. No. 910,983; Jan. 26; Sp. p. 5188; Gaz. vol. 138; p. 935.
- Anderson, J. S., Marble township, Lincoln county, Minn. Gate. No. 920,810; May 4; Sp. p. 1455; Gaz. vol. 142; p. 235.
- Anderson, J. T., Urbana, Ohio. Garden-cultivator. No. 914,911; Mar. 9; Sp. p. 2625; Gaz. vol. 140; p. 440.
- Anderson, J. W., Rossmoyne, Ohio. Pipe-coupling. No. 932,424; Aug. 31; Sp. p. 5900; Gaz. vol. 145; p. 1029.
- Anderson, L. W., assignor to Cincinnati Shaper Company, Cincinnati, Ohio. Shaping-machine. No. 916,962; Apr. 6; Sp. p. 5; Gaz. vol. 141; p. 3.
- Anderson, L. W., and A. R. Murray, Cincinnati, Ohio. Change-speed gearing. No. 943,621; Dec. 14; Sp. p. 3427; Gaz. vol. 149; p. 572.
- Anderson-Lacy Electric Headlight Company. (See Lacy, B. B., assignor.)
- Anderson, N. M., Bedford, Ind., assignor to Buggy Car Company, Cincinnati, Ohio. Differential drive-gearing. No. 908,722; Jan. 5; Sp. p. 626; Gaz. vol. 138; p. 97.
- Anderson, N. M., Bedford, Ind., assignor to Buggy Car Company, Cincinnati, Ohio. Automobile. No. 910,768; Jan. 26; Sp. p. 4791; Gaz. vol. 138; p. 867.
- Anderson, O., Pelican Rapids, Minn. Fan-blend regulator. No. 908,535; Jan. 5; Sp. p. 219; Gaz. vol. 138; p. 38.
- Anderson, O., McGregor, Minn. Fountain paint-brush. No. 938,362; Oct. 26; Sp. p. 5809; Gaz. vol. 147; p. 986.
- Anderson, O., Velva, N. D. Tag-holder. No. 938,946; Nov. 2; Sp. p. 1089; Gaz. vol. 148; p. 173.
- Anderson, O., Cleveland, Ohio. Permutation-lock. No. 939,887; Nov. 9; Sp. p. 3154; Gaz. vol. 148; p. 520.
- Anderson, O. A. (See Blakestad and Anderson.)



*Alphabetical list of patentees—Continued.*

- Anderson, P., Cambridge, Mass., assignor to Dover Stamping and Manufacturing Company, Portland, Me. Cover for oil-waste cans. No. 936,509; Oct. 12; Sp. p. 1930; Gaz. vol. 147; p. 318.
- Anderson, P. A. (See McDonald, Anderson, and O'Riley.)
- Anderson, P. E., Canby, Minn. Windmill-governor. No. 927,921; July 13; Sp. p. 2553; Gaz. vol. 144; p. 434.
- Anderson, P. G. (See Weaver and Anderson.)
- Anderson, R. H., Watertown, S. D. Self-adjusting wrench. No. 942,992; Dec. 14; Sp. p. 2078; Gaz. vol. 149; p. 357.
- Anderson, S. R., Hardin, Ill. Stave-machine. No. 923,477; June 1; Sp. p. 815; Gaz. vol. 143; p. 122.
- Anderson, T. E., assignor of one-fourth to C. R. Fridley, one-fourth to F. Speechly, and one-fourth to S. L. Perrin, Superior, Wis. Fault-finder. No. 934,874; Sept. 21; Sp. p. 3813; Gaz. vol. 146; p. 661.
- Anderson, T. R., Oklahoma, Okla. Fire-escape. No. 927,922; July 13; Sp. p. 2555; Gaz. vol. 144; p. 435.
- Anderson, T. W., assignor of one-fourth to J. M. Johnston, Fort Smith, Ark., and one-fourth to C. F. Richardson, St. Louis, Mo. Locomotive ash-pan. No. 942,765; Dec. 7; Sp. p. 1515; Gaz. vol. 149; p. 248.
- Anderson Tool Company. (See Mittendorf, W. R., assignor.)
- Anderson, U., assignor to Giddings & Lewis Manufacturing Company, Fond du Lac, Wis. Rope-driven sawmill set-works. No. 923,314; June 1; Sp. p. 476; Gaz. vol. 143; p. 68.
- Anderson, U., assignor to Giddings & Lewis Manufacturing Company, Fond du Lac, Wis. Gang-edger. No. 941,751; Nov. 30; Sp. p. 7262; Gaz. vol. 148; p. 1225.
- Anderson, V., Nydalen, near Christiania, Norway. Furnace for heating blanks. No. 924,125; June 8; Sp. p. 2208; Gaz. vol. 143; p. 368.
- Anderson, W. and H., Edinburgh, Scotland. Inverted incandescent burner. No. 937,571; Oct. 19; Sp. p. 4127; Gaz. vol. 147; p. 702.
- Anderson, W. C., assignor to American Cut Glass Company, Lansing, Mich. Dish. No. 908,723; Jan. 5; Sp. p. 627; Gaz. vol. 138; p. 97.
- Anderson, W. C., assignor to Anderson-Barngrover Mfg. Co., San Jose, Cal. Fruit-grader. No. 916,647; Mar. 30; Sp. p. 6077; Gaz. vol. 140; p. 1089.
- Anderson, W. C., assignor to Anderson-Barngrover Mfg. Co., San Jose, Cal. Fruit-distributing apparatus for canning-tables. No. 920,712; May 4; Sp. p. 1276; Gaz. vol. 142; p. 204.
- Anderson, W. E., Los Angeles, Cal. Machine for turning crank-pins. No. 916,646; Mar. 30; Sp. p. 6074; Gaz. vol. 140; p. 1089.
- Anderson, W. T., Jr., Tarentum, Pa. Burglar-alarm. No. 918,413; Apr. 13; Sp. p. 2938; Gaz. vol. 141; p. 518.
- Anderson, W. V., Toledo, Ohio. Closet and wardrobe hook. No. 909,856; Jan. 19; Sp. p. 2863; Gaz. vol. 138; p. 535.
- Anderson, W. W., assignor of one-half to L. Busiere, Taunton, Mass. Wet-wash drier for laundries. No. 918,114; Apr. 13; Sp. p. 2348; Gaz. vol. 141; p. 420.
- Anderson, C. E., assignor to Aktiebolaget Eskilstuna Separator, Eskilstuna, Sweden. Three-way valve. No. 929,367; July 27; Sp. p. 5562; Gaz. vol. 144; p. 975.
- Andersson, C. R., Wänersborg, Sweden. Extinguishing means for match-box-filling machines. No. 923,476; June 1; Sp. p. 813; Gaz. vol. 143; p. 122.
- Andreas, F. (See Hoener and Andreas.)
- Andres, L. W. and M., Scranton, Pa. Filter. No. 938,947; Nov. 2; Sp. p. 1091; Gaz. vol. 148; p. 173.
- Andres, M. (See Andres, L. W. and M.)
- Andresen, H. P., assignor of one-half to D. J. Evans, Chicago, Ill. Grab-bucket. No. 921,056; May 11; Sp. p. 1949; Gaz. vol. 142; p. 346.
- Andrew, B. E., Port Allegany, Pa. Railway-signal. No. 931,666; Aug. 17; Sp. p. 4285; Gaz. vol. 145; p. 732.
- Andrew, S. E., Wilmington, Del. Apparatus for coating sheet metal. No. 908,829; Jan. 5; Sp. p. 831; Gaz. vol. 138; p. 130.
- Andrew, F., Cincinnati, Ohio. Current-controller. No. 937,201; Oct. 19; Sp. p. 3327; Gaz. vol. 147; p. 579.
- Andrew, H. T., Baring, Mo. Rim-engaging device. No. 912,770; Feb. 16; Sp. p. 3656; Gaz. vol. 139; p. 644.
- Andrew, H. T., Baring, Mo. Package-fastener. No. 919,674; Apr. 27; Sp. p. 5833; Gaz. vol. 141; p. 1001.
- Andrew, J. H. (See Jones, J. H., assignor.)
- Andrew, J. T., Montgomery, Ala. Self-restoring trolley. No. 912,055; Feb. 9; Sp. p. 2126; Gaz. vol. 139; p. 366.
- Andrew, J. T., Montgomery, Ala. Railway safety appliance. No. 941,222; Nov. 23; Sp. p. 6138; Gaz. vol. 148; p. 1029.
- Andrew, M. L., Delhi, Ohio. Boring-machine. No. 911,639; Feb. 9; Sp. p. 1222; Gaz. vol. 139; p. 231.
- Andrew, T. M. (See Mustard, J. E., assignor.)
- Andrew, W. K., Milwaukee, Wis., assignor to International Harvester Company. Carbureter. No. 911,692; Feb. 9; Sp. p. 1336; Gaz. vol. 139; p. 248.
- Andrew, W. K., Milwaukee, Wis., assignor to International Harvester Company. Water-circulating pump. No. 933,045; Sept. 7; Sp. p. 3; Gaz. vol. 146; p. 3.
- Andrews, A. H., Lancaster, Pa. Cigar-retainer and inner seal. No. 921,938; May 18; Sp. p. 3799; Gaz. vol. 142; p. 668.
- Andrews, A. K., assignor to Standard Steel Works Company, Burnham, Pa. Die for pressing wheels and like shapes. No. 937,749; Oct. 26; Sp. p. 4481; Gaz. vol. 147; p. 778.
- Andrews, A. W., assignor to Andrews Wire and Iron Works, Rockford, Ill. Sink-strainer. No. 928,236; July 20; Sp. p. 3191; Gaz. vol. 144; p. 569.
- Andrews, B. C., Mabank, Tex. Fire-alarm. No. 944,305; Dec. 28; Sp. p. 4876; Gaz. vol. 149; p. 859.
- Andrews, C. (See Gordon, Jackson, and Andrews.)
- Andrews, C. W., Duluth, Minn. Loading machinery. No. 910,038; Jan. 19; Sp. p. 3235; Gaz. vol. 138; p. 596.
- Andrews, D., and C. Bickerton, Manchester, England; said Bickerton assignor to said Andrews. Appliance for automatically and otherwise locking and unlocking railway-carriage doors. No. 942,125; Dec. 7; Sp. p. 212; Gaz. vol. 149; p. 32.
- Andrews, E. P. S., West Windham, N. H. Torpedo. No. 925,857; June 22; Sp. p. 5812; Gaz. vol. 143; p. 1006.
- Andrews, F. G., Coraopolis, Pa. Ventilator. No. 931,667; Aug. 17; Sp. p. 4286; Gaz. vol. 145; p. 732.
- Andrews, F. H. (See Arrington, O. H., assignor.)
- Andrews, F. H., Watsonville, Cal. Phonograph-stop. No. 924,527; June 8; Sp. p. 3074; Gaz. vol. 143; p. 502.
- Andrews, G. C. (See Field, E. M., Jr., assignor.)
- Andrews, G. C., Minneapolis, Minn. Water-intake valve and safety device for hot-water heating systems. No. 909,857; Jan. 19; Sp. p. 2864; Gaz. vol. 138; p. 535.
- Andrews, G. E., Providence, R. I. Battery-covering. No. 932,841; Aug. 31; Sp. p. 6797; Gaz. vol. 145; p. 1166.
- Andrews, G. K., Webster Groves, Mo. Erasing device for type-writing machines. No. 924,215; June 8; Sp. p. 2464; Gaz. vol. 143; p. 400.
- Andrews, G. S., Butler, Pa. Gas-burner. No. 912,054; Feb. 9; Sp. p. 2123; Gaz. vol. 139; p. 366.
- Andrews, G. V., Harvard, Ill. Water-heater. No. 933,736; Sept. 14; Sp. p. 1601; Gaz. vol. 146; p. 263.
- Andrews Governor Patents Limited. (See Gordon, Jackson, and Andrews, assignors.)
- Andrews, J., Lebanon, Pa. Hull construction. No. 926,635; June 29; Sp. p. 7351; Gaz. vol. 143; p. 1297.
- Andrews, J. E., La Crosse, Kans. Fire-escape. No. 939,375; Nov. 9; Sp. p. 2077; Gaz. vol. 148; p. 346.
- Andrews, J. H., *et al.* (See Shephard, G., assignor.)
- Andrews, J. S., New York, N. Y. Underframe for cars and fenders. No. 910,263; Jan. 19; Sp. p. 3739; Gaz. vol. 138; p. 675.
- Andrews, J. W. R., Leominster, Mass. Transmission mechanism. No. 935,882; Oct. 5; Sp. p. 610; Gaz. vol. 147; p. 87.
- Andrews, P. L., *et al.* (See Brown, E. L., assignor.)
- Andrews, W., Brooklyn, N. Y. Radiator. No. 929,368; July 27; Sp. p. 5564; Gaz. vol. 144; p. 976.
- Andrews, W. E., Wormleysburg, assignor of one-half to A. H. Shaffer, Harrisburg, Pa. Anvil. No. 921,787; May 18; Sp. p. 3488; Gaz. vol. 142; p. 620.
- Andrews, W. F., Atlantic City, N. J. Rail-tying mechanism. No. 928,301; July 20; Sp. p. 3366; Gaz. vol. 144; p. 501.
- Andrews, W. S., Schenectady, N. Y., assignor to General Electric Company. Electric heater. No. 910,479; Jan. 19; Sp. p. 4196; Gaz. vol. 138; p. 750.
- Andrews, W. S., Schenectady, N. Y., assignor to General Electric Company. Electric toaster. No. 936,597; Oct. 12; Sp. p. 2098; Gaz. vol. 147; p. 349.
- Andrews, W. S., Schenectady, N. Y., assignor to General Electric Company. Electric toaster. (Reissue.) No. 13,060; Dec. 28; Sp. p. 6404; Gaz. vol. 149; p. 1098.
- Andrews Wire and Iron Works. (See Andrews, A. W., assignor.)
- Andrioli, V., Milan, Italy. Apparatus for producing circulation in steam-boilers. No. 913,347; Feb. 23; Sp. p. 4789; Gaz. vol. 139; p. 858.
- Andrus, A. L., and E. E. Raue, assignors to Russell & Erwin Manufacturing Company, New Britain, Conn. Indicator-lock. No. 913,448; Feb. 23; Sp. p. 4998; Gaz. vol. 139; p. 893.
- Andrzejewski, I. (See Fero, C., Sr., assignor.)
- Anfield, W. T., St. Louis, Mo. Box-car door. No. 935,450; Sept. 28; Sp. p. 4970; Gaz. vol. 146; p. 878.
- Angel, H., New York, N. Y. Tape-perforator. No. 944,123; Dec. 21; Sp. p. 4501; Gaz. vol. 149; p. 773.
- Angel, J. E., assignor of one-half to A. H. Wood, Madison, N. C. Printing-press. No. 912,771; Feb. 16; Sp. p. 3657; Gaz. vol. 139; p. 645.
- Angelicola, A. F., New York, N. Y. Pneumatic tire. No. 943,371; Dec. 14; Sp. p. 2877; Gaz. vol. 149; p. 484.
- Angelini, G., Rome, Italy. Microphone. No. 928,096; July 13; Sp. p. 2875; Gaz. vol. 144; p. 491.
- Angell, C. W., Lima, Ohio. Portable mirror. No. 940,115; Nov. 16; Sp. p. 3705; Gaz. vol. 148; p. 631.
- Angell, E. E., Boston, Mass. Apparatus for protecting commercial paper. No. 936,398; Oct. 12; Sp. p. 1665; Gaz. vol. 147; p. 282.
- Angell, E. E., Somerville, Mass. Protecting commercial paper. No. 936,399; Oct. 12; Sp. p. 1668; Gaz. vol. 147; p. 283.



*Alphabetical list of patentees—Continued.*

- Angell, W. R. (See Arnt, H. P., assignor.)
- Angerstein, F., assignor to L. A. Sayre & Co., Newark, N. J. Ticket-punch. No. 930,117; Aug. 3; Sp. p. 1048; Gaz. vol. 145; p. 168.
- Angle, A. H., and L. R. Hecker, assignors to Safety Electric Railway Construction Company, Philadelphia, Pa. Electric-current collector. No. 926,088; June 29; Sp. p. 6289; Gaz. vol. 143; p. 1117.
- Angle, E. H., Larchmont, N. Y. Dental tooth-regulating appliance. No. 930,717; Aug. 10; Sp. p. 2245; Gaz. vol. 145; p. 391.
- Ankarlo, V. E., Somerville, Mass. Machine for threading pipe. No. 913,089; Feb. 23; Sp. p. 4261; Gaz. vol. 139; p. 772.
- Anker-Holth, S. C., Riverside, Ill. Yielding bearing. No. 936,753; Oct. 12; Sp. p. 2414; Gaz. vol. 147; p. 402.
- Ankerwerke Actien-Gesellschaft vormals Hengstenberg & Co. (See Trog, C., assignor.)
- Ankrom, E. L., Quaker City, Ohio. Cooking utensil. No. 944,998; Dec. 28; Sp. p. 6374; Gaz. vol. 149; p. 1095.
- Annable, E. S., Lynn, Mass. Mail-box. No. 929,369; July 27; Sp. p. 5565; Gaz. vol. 144; p. 976.
- Annable, W. W., assignor to Starter Manufacturing Company, Grand Rapids, Mich. Electrically-operated valve. No. 936,074; Oct. 5; Sp. p. 1009; Gaz. vol. 147; p. 152.
- Anner, H., and M. J. Marnel, Phillipsburg, N. J. Combination harness and warp stop-motion. No. 936,847; Oct. 12; Sp. p. 2601; Gaz. vol. 147; p. 434.
- Annigoni, R., Astoria, assignor to P. De Nobili & Co., Long Island City, N. Y. Cigar-machine. No. 913,869; Mar. 2; Sp. p. 425; Gaz. vol. 140; p. 69.
- Annigoni, R., Astoria, assignor to P. De Nobili & Co., Long Island City, N. Y. Cigar-rolling table. No. 913,870; Mar. 2; Sp. p. 428; Gaz. vol. 140; p. 69.
- Anschütz, O., Hamburg, Germany. Door check and closer. No. 934,261; Sept. 14; Sp. p. 2623; Gaz. vol. 146; p. 434.
- Ansell, P., Washington, D. C. Cue-tip trimmer. No. 942,876; Dec. 14; Sp. p. 1795; Gaz. vol. 149; p. 317.
- Anselmi, E., Viterbo, Italy. Portable apparatus and process for vulcanized repairs of pneumatic tires. No. 918,943; Apr. 20; Sp. p. 4141; Gaz. vol. 141; p. 724.
- Anslay, G. W., Medical Lake, Wash. Floor-cleaner. No. 913,801; Mar. 2; Sp. p. 261; Gaz. vol. 140; p. 44.
- Anslay, J. A., Thessalon, Ontario, Canada. Band-saw guide. No. 916,248; Mar. 23; Sp. p. 5270; Gaz. vol. 140; p. 932.
- Ansorge, E. L., Newaygo, Mich. Box. No. 911,693; Feb. 9; Sp. p. 1339; Gaz. vol. 139; p. 249.
- Ansorge, E. L., Newaygo, Mich. Box. No. 916,249; Mar. 23; Sp. p. 5272; Gaz. vol. 140; p. 932.
- Ansorge, E. L., Newaygo, Mich. Box. No. 917,835; Apr. 13; Sp. p. 1754; Gaz. vol. 141; p. 322.
- Anstead, J. M., and H. Bollman, Fort Meade, S. D. Bottle and stopper therefor. No. 944,166; Dec. 21; Sp. p. 4586; Gaz. vol. 149; p. 786.
- Antice, F. F. (See Smith, E. F., assignor.)
- Antes, W. H. (See Roe and Antes.)
- Anthe, F. D., Covington, Ky. Sash balance and lock. No. 914,692; Mar. 9; Sp. p. 2191; Gaz. vol. 140; p. 368.
- Antenat, C. V., Sheridan, Ill. Swingletree. No. 930,118; Aug. 3; Sp. p. 1049; Gaz. vol. 145; p. 168.
- Anthony, E. J., Brookview, N. Y. Railway-rail-locking mechanism. No. 941,692; Nov. 30; Sp. p. 7137; Gaz. vol. 148; p. 1204.
- Anthony, E. J., Brookview, N. Y. Rail-brace for railways. No. 941,693; Nov. 30; Sp. p. 7139; Gaz. vol. 148; p. 1205.
- Anthony, E. W., Brookline, Mass. Hot-air furnace or heater. No. 918,812; Apr. 20; Sp. p. 3842; Gaz. vol. 141; p. 679.
- Anthony, E. W., Brookline, Mass. Stove. No. 938,543; Nov. 2; Sp. p. 236; Gaz. vol. 148; p. 34.
- Anthony, F. A., Hackensack, N. J. Camera. No. 929,648; Aug. 3; Sp. p. 4; Gaz. vol. 145; p. 3.
- Anthony, J. (See Stag and Anthony.)
- Anthony, J. H., Hickman, Ark. Log and lumber wagon. No. 927,206; July 6; Sp. p. 1050; Gaz. vol. 144; p. 169.
- Anthony, M. O. (See Garretson and Anthony.)
- Anthony, M. O., Englewood, N. J., assignor to Stillwerck Brothers, New York, N. Y. Coin-controlled mechanism for vending-machines. No. 917,986; Apr. 13; Sp. p. 2077; Gaz. vol. 141; p. 376.
- Anthony, W. R., Memphis, Tenn. Shaper for swaged saw-teeth. No. 935,138; Sept. 28; Sp. p. 4363; Gaz. vol. 146; p. 778.
- Anti-Water Overflow Co. (See Toback, L., assignor.)
- Antic, J. J., Allegheny, Pa. Hose-coupling. No. 909,131; Jan. 12; Sp. p. 1457; Gaz. vol. 138; p. 265.
- Antifriction Journal Box Company. (See Sheasby, W. H., assignor.)
- Antliotti, W. A., Macon, Ga. Index-compiling device. No. 936,287; Oct. 12; Sp. p. 1411; Gaz. vol. 147; p. 244.
- Antisdale, E. S., Chicago, Ill. Book-holder. No. 931,111; Aug. 17; Sp. p. 3133; Gaz. vol. 145; p. 548.
- Antisell, F. L., New York, N. Y., assignor of one-fourth to W. S. Higgins, Perth Amboy, N. J. Apparatus for refining copper. (Reissue.) No. 13,020; Sept. 14; Sp. p. 2932; Gaz. vol. 146; p. 490.
- Antiseptic Holder Company. (See Jones, W. D., assignor.)
- Antoine, H., Paris, France. Holder for cramps, &c. No. 944,403; Dec. 28; Sp. p. 5080; Gaz. vol. 149; p. 894.
- Anton, A. (See Schmitt and Anton.)
- Antoni, W., Lodi, Cal. Making vinegar. No. 928,578; July 20; Sp. p. 3908; Gaz. vol. 144; p. 683.
- Apel, A. E., Atlantic City, N. J. Boat. No. 928,579; July 20; Sp. p. 3909; Gaz. vol. 144; p. 683.
- Apfel, A. H. (See Teyander, O. N., assignor.)
- Apgar, G. W. (See Apgar, J. T., assignor.)
- Apgar, J. T., New York, N. Y. Artificial leg. No. 909,859; Jan. 19; Sp. p. 2867; Gaz. vol. 138; p. 536.
- Apgar, J. T., New York, N. Y. Convertible railway-car. No. 909,860; Jan. 19; Sp. p. 2870; Gaz. vol. 138; p. 536.
- Apgar, J. T., assignor to G. W. Apgar, New York, N. Y. Adjustable arch-supporter. No. 909,858; Jan. 19; Sp. p. 2865; Gaz. vol. 138; p. 535.
- Apollo Artificial Stone Company. (See Henderson, J. C., assignor.)
- App, C. J., Lynchburg, Va. Quadruplex telegraph system. No. 909,511; Jan. 12; Sp. p. 2186; Gaz. vol. 138; p. 388.
- App, H. L., and J. H. Baker, Richmond, and E. G. Bolton, Fresno, Cal. Automatic burglar-proof car-door lock. No. 924,874; June 15; Sp. p. 3828; Gaz. vol. 143; p. 654.
- App, M. L., (See Baker, O. O., assignor.)
- Appel, M., assignor of one-fifth to S. Robinson, New York, N. Y. Wardrobe-bed. No. 915,651; Mar. 16; Sp. p. 4119; Gaz. vol. 140; p. 712.
- Appel, M. J. (See Alexander and Appel.)
- Appelberry, D. L., Phillips, Mont. Meat-slicer. No. 915,532; Mar. 16; Sp. p. 3849; Gaz. vol. 140; p. 669.
- Appenbrink, W., Quincy, Ill. Flue-scraper. No. 922,996; May 25; Sp. p. 5975; Gaz. vol. 142; p. 1042.
- Apple, O., Miamisburg, Ohio. Gas-controlling apparatus for battery-cells. No. 932,087; Aug. 24; Sp. p. 5242; Gaz. vol. 145; p. 894.
- Apple, V. G., Dayton, Ohio. Commutator-brush. No. 936,692; Oct. 12; Sp. p. 2306; Gaz. vol. 147; p. 382.
- Appleby, E. (See Appleby, J. and E.)
- Appleby, G. M., et al. (See Frederick, L., assignor.)
- Appleby, J. and E., Aston, near Birmingham, England. Thread-guide for cotton-spinning and like machinery. No. 942,362; Dec. 7; Sp. p. 697; Gaz. vol. 149; p. 113.
- Appleby, J. F., Lorena, Okla. Cotton-boll gatherer. No. 908,637; Jan. 5; Sp. p. 435; Gaz. vol. 138; p. 70.
- Appleby, J. F., Lorena, Okla. Cotton-picking finger. No. 908,638; Jan. 5; Sp. p. 439; Gaz. vol. 138; p. 70.
- Appleby, J. R., et al. (See Frederick, L., assignor.)
- Applegate, F., Philadelphia, Pa., assignor, by mesne assignments, to Royal Phone & Phonogram Co., Boston, Mass. Making phonograms. No. 939,119; Nov. 2; Sp. p. 1421; Gaz. vol. 148; p. 231.
- Applegate, F. C., Philadelphia, Pa., assignor, by mesne assignments, to Royal Phone & Phonogram Co., Boston, Mass. Phonogram. No. 939,120; Nov. 2; Sp. p. 1422; Gaz. vol. 148; p. 232.
- Applegate, J. S., Philadelphia, Pa. Envelop-fastener. No. 921,939; May 18; Sp. p. 3800; Gaz. vol. 142; p. 668.
- Applegate, S. W., South Bend, Ind. Aeroplane. No. 939,651; Nov. 9; Sp. p. 2661; Gaz. vol. 148; p. 440.
- Appleman, R., Luzerne, Pa. Sprag-shaving machine. No. 944,647; Dec. 28; Sp. p. 5638; Gaz. vol. 149; p. 978.
- Appleton, C. J., Philadelphia, Pa. Building-frame anchorage and weatherproofing. No. 931,714; Aug. 24; Sp. p. 4430; Gaz. vol. 145; p. 771.
- Appleton, H. L., Shelby, Ala. Bed attachment. No. 932,236; Aug. 24; Sp. p. 5540; Gaz. vol. 145; p. 944.
- Appleton, J. W., New York, N. Y. Inner garment. No. 942,159; Dec. 7; Sp. p. 287; Gaz. vol. 149; p. 44.
- Appleton, W. M., Weston-super-Mare, England. Internal-combustion engine. No. 939,376; Nov. 9; Sp. p. 2079; Gaz. vol. 148; p. 346.
- Appling, R. L. (See Nelson and Appling.)
- Apt, W. E., and E. L. Schott, St. Joseph, Mo. Automatic gas shut-off. No. 924,954; June 15; Sp. p. 3978; Gaz. vol. 143; p. 680.
- Apt, W. E., and E. L. Schott, St. Joseph, Mo. Gas-stoppage alarm. No. 929,116; July 27; Sp. p. 5000; Gaz. vol. 144; p. 889.
- Arabol Manufacturing Company. (See Supf, F., assignor.)
- Arbeter Felling Machine Company. (See Arbeter, W., assignor.)
- Arbeter, W., Chelsea, assignor to Arbeter Felling Machine Company, Boston, Mass. Seam or hem. No. 937,272; Oct. 19; Sp. p. 3488; Gaz. vol. 147; p. 603.
- Arbeter, W., Chelsea, assignor to Arbeter Felling Machine Company, Boston, Mass. Blindstitch sewing-machine. No. 937,273; Oct. 19; Sp. p. 3489; Gaz. vol. 147; p. 603.
- Arbeter, W., Chelsea, assignor to Arbeter Felling Machine Company, Boston, Mass. Seam for sewed articles. No. 937,274; Oct. 19; Sp. p. 3492; Gaz. vol. 147; p. 604.
- Arbeter, W., Chelsea, assignor to Arbeter Felling Machine Company, Boston, Mass. Seam for sewed articles. No. 937,275; Oct. 19; Sp. p. 3493; Gaz. vol. 147; p. 604.

*Alphabetical list of patentees—Continued.*

- Arbogast, J. I., assignor of one-half to H. L. Collins, Pittsburg, Pa. Making machine-footed glassware. No. 909,842; Jan. 12; Sp. p. 2828; Gaz. vol. 138; p. 498.
- Arbogast, J. I., assignor of one-half to H. L. Collins, Pittsburg, Pa. Producing wire-glass articles. No. 916,250; Mar. 23; Sp. p. 5273; Gaz. vol. 140; p. 932.
- Arbogast, J. I., assignor of one-half to H. L. Collins, Pittsburg, Pa. Machine for making wire-glass. No. 941,842; Nov. 30; Sp. p. 7481; Gaz. vol. 148; p. 1257.
- Arbuckle, A. J., Johannesburg, Transvaal. Filtering apparatus. No. 924,721; June 15; Sp. p. 3497; Gaz. vol. 143; p. 601.
- Arcellona, M. (See Serena, A., assignor.)
- Archambo, A. J. (See Wallace, H. P., assignor.)
- Archdeacon, J. P., Boston, Mass. Mold for making fluted columns. No. 925,858; June 22; Sp. p. 5814; Gaz. vol. 143; p. 1006.
- Archer, J. T., Champaign, assignor of one-half to F. M. Foltz, Urbana, Ill. Trolley-harp. No. 940,574; Nov. 16; Sp. p. 4730; Gaz. vol. 148; p. 787.
- Archer, W. A., Topeka, Kans. Well-screen. No. 921,337; May 11; Sp. p. 2563; Gaz. vol. 142; p. 442.
- Archibald, A. D., Covington, Ky. Illuminated semaphore. No. 911,640; Feb. 9; Sp. p. 1224; Gaz. vol. 139; p. 232.
- Archibald, N. A., assignor of one-half to S. W. Williams, Concord, N. C. Register for pin-pool. No. 910,769; Jan. 26; Sp. p. 4701; Gaz. vol. 138; p. 867.
- Archibald, R., Vancouver, British Columbia, Canada. Means for automatically releasing ships' boats. No. 926,453; June 29; Sp. p. 7021; Gaz. vol. 143; p. 1237.
- Archie, C. L., Patmos, Ark. Churn-operating means. No. 926,535; June 29; Sp. p. 7158; Gaz. vol. 143; p. 1264.
- Architectural Stone Company. (See Hackett, T. P., assignor.)
- Arctic Ice Machine Company. (See Neff, Cole, and Ebersole, assignors.)
- Ardelt, R., Wetzlar, Germany. Pipe-molding machine. No. 915,323; Mar. 16; Sp. p. 3445; Gaz. vol. 140; p. 600.
- Arden, D. D. (See Bacot and Arden.)
- Arehart, D. D., Jr., Friedens, Pa. Switch-throwing device. No. 921,638; May 11; Sp. p. 3177; Gaz. vol. 142; p. 543.
- Arenberg, H. F., Petaluma, Cal. Heating-stove. No. 942,805; Dec. 7; Sp. p. 1585; Gaz. vol. 149; p. 261.
- Arenberg, H. F., Petaluma, Cal. Oil-burner. No. 944,761; Dec. 28; Sp. p. 5898; Gaz. vol. 149; p. 1016.
- Arends, G. J. and J. J., Rock Rapids, Iowa. Lubricator-pump. No. 927,923; July 13; Sp. p. 2556; Gaz. vol. 144; p. 435.
- Arends, J. J. (See Arends, G. J. and J. J.)
- Arendt, P., Le Mars, Iowa. Fence post or stay. No. 938,296; Oct. 26; Sp. p. 5635; Gaz. vol. 147; p. 964.
- Arens, A., assignor to P. & F. Corbin, New Britain, Conn. Roll-back hub for locks. No. 923,755; June 1; Sp. p. 1413; Gaz. vol. 143; p. 219.
- Arens, A., assignor to P. & F. Corbin, New Britain, Conn. Latch-bolt-dogging mechanism. No. 924,528; June 8; Sp. p. 3076; Gaz. vol. 143; p. 503.
- Arens, A., assignor to P. & F. Corbin, New Britain, Conn. Lock-case construction. No. 927,442; July 6; Sp. p. 1496; Gaz. vol. 144; p. 247.
- Arens, A., assignor to P. & F. Corbin, New Britain, Conn. Screwless knob. No. 927,443; July 6; Sp. p. 1498; Gaz. vol. 144; p. 248.
- Arens, A., Hartford, assignor to P. & F. Corbin, New Britain, Conn. Hotel-door lock. No. 932,364; Aug. 24; Sp. p. 5772; Gaz. vol. 145; p. 986.
- Arens, A., and E. L. Teich, assignors to P. & F. Corbin, New Britain, Conn. Indicator for door-locks. No. 936,231; Oct. 5; Sp. p. 1302; Gaz. vol. 147; p. 199.
- Arens, A., and E. L. Teich, assignors to P. & F. Corbin, New Britain, Conn. Indicator for locks. No. 942,806; Dec. 7; Sp. p. 1586; Gaz. vol. 149; p. 261.
- Arenstein, P. (See Melnik, J., assignor.)
- Arentsen, J., et al. (See Gordon, C. H., assignor.)
- Argerbright, D., Troy, Ohio. Storm-front for vehicles. No. 916,089; Mar. 23; Sp. p. 4974; Gaz. vol. 140; p. 881.
- Argerbright, D., Troy, Ohio. Storm-front for vehicles. No. 916,090; Mar. 23; Sp. p. 4976; Gaz. vol. 140; p. 881.
- Argo, G. B., Perlee, Iowa. Cork-extractor. No. 926,839; July 6; Sp. p. 277; Gaz. vol. 144; p. 45.
- Argo, H. E. (See Stott, D. M., assignor.)
- Arlund, O., Superior, Wis. Skate. No. 908,536; Jan. 5; Sp. p. 221; Gaz. vol. 138; p. 38.
- Armant, E. (See Porter, W. E., assignor.)
- Armbrust, C. W., Chicago, Ill. Brake-shoe. No. 919,518; Apr. 27; Sp. p. 5515; Gaz. vol. 141; p. 947.
- Armbruster, J., Soltau, Germany. Pulling-over machine. No. 922,235; May 18; Sp. p. 4411; Gaz. vol. 142; p. 765.
- Armbruster, S. I., Plymouth, Ohio. Wire-working machine. No. 911,931; Feb. 9; Sp. p. 1760; Gaz. vol. 139; p. 326.
- Armel, A., and C. M. Legrand, assignors to Société Ch. Legrand et Cie., Paris, France. Electrically-controlled lock. No. 924,126; June 8; Sp. p. 2209; Gaz. vol. 143; p. 369.
- Armijo, J. Y. (See Maes and Armijo.)
- Armington, G. A., Wickliffe, Ohio. Hoisting mechanism. No. 933,356; Sept. 7; Sp. p. 727; Gaz. vol. 146; p. 114.
- Armington, J. R., Roanoke, Va. Twine-holder. No. 912,224; Feb. 9; Sp. p. 2424; Gaz. vol. 139; p. 418.
- Armington, J. R., Roanoke, Va. Stamp-vending machine. No. 942,766; Dec. 7; Sp. p. 1517; Gaz. vol. 149; p. 249.
- Armington, O. H., Cumberland, assignor to F. H. Andrews, Providence, R. I. Combination lantern and heater. No. 939,377; Nov. 9; Sp. p. 2080; Gaz. vol. 148; p. 347.
- Armínio, N., New York, N. Y. Music-leaf turner. No. 932,088; Aug. 24; Sp. p. 5244; Gaz. vol. 145; p. 894.
- Armitage, J. W., North Tonawanda, assignor of one-half to J. D. Guinn, Springville, N. Y. Amusement apparatus. No. 932,089; Aug. 24; Sp. p. 5246; Gaz. vol. 145; p. 894.
- Armitage, P. G., Newark, N. J., assignor to himself, and J. N. Catlow, New York, N. Y. Portable striking-bag platform. No. 923,928; June 8; Sp. p. 1836; Gaz. vol. 143; p. 306.
- Armour, W., Irvine, Scotland. Indicating and recording apparatus for pyrometers and the like. No. 921,500; May 11; Sp. p. 2887; Gaz. vol. 142; p. 497.
- Armour, W. A., assignor to Seth Thomas Clock Company, Thomaston, Conn. Alarm-clock-setting means. No. 926,454; June 29; Sp. p. 7022; Gaz. vol. 143; p. 1238.
- Arms, H. P., West Hartford, Conn. Alarm-clock. No. 924,127; June 8; Sp. p. 2212; Gaz. vol. 143; p. 369.
- Armstead, J. D., and S. Kelley, Jonestown, Miss. Cotton-chopper. No. 938,626; Nov. 2; Sp. p. 410; Gaz. vol. 148; p. 62.
- Armstrong, A. E. (See Dougherty and Armstrong.)
- Armstrong, A. H., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 919,302; Apr. 27; Sp. p. 5035; Gaz. vol. 141; p. 874.
- Armstrong, A. H., Sandwich, Mass., assignor of one-half to A. C. Kennett, Conway, N. H. Nut-lock. No. 929,532; July 27; Sp. p. 5840; Gaz. vol. 144; p. 1026.
- Armstrong Brothers Tool Company. (See Armstrong, P., assignor.)
- Armstrong, C. C., Marysville, Ohio. Gas-regulating valve. No. 931,668; Aug. 17; Sp. p. 4287; Gaz. vol. 145; p. 732.
- Armstrong, C. D., Provo, Utah. Attachment for sewing-machines. No. 931,369; Aug. 17; Sp. p. 3702; Gaz. vol. 145; p. 639.
- Armstrong, C. G., Sandwich, Mass. Brooch or the like. No. 920,517; May 4; Sp. p. 860; Gaz. vol. 142; p. 139.
- Armstrong Cork Company. (See Busch, H. F., assignor.)
- Armstrong, D. F., Groton, Conn. Automobile-protector. No. 936,075; Oct. 5; Sp. p. 1010; Gaz. vol. 147; p. 152.
- Armstrong, G. A., Youngstown, Ohio. Check-stamping mechanism for computing-machines. No. 938,455; Nov. 2; Sp. p. 1; Gaz. vol. 148; p. 3.
- Armstrong, H. A., New York, N. Y. Attachment for type-setting machines. No. 912,056; Feb. 9; Sp. p. 2128; Gaz. vol. 139; p. 367.
- Armstrong, H. L. (See Taylor, E. H., assignor.)
- Armstrong, H. Y., Elgin, Ill. Wrapping-machine. No. 918,641; Apr. 20; Sp. p. 3454; Gaz. vol. 141; p. 622.
- Armstrong, H. Y., Elgin, Ill. Wrapping-machine. No. 918,642; Apr. 20; Sp. p. 3468; Gaz. vol. 141; p. 623.
- Armstrong, H. Y., Elgin, Ill. Wrapper-cutting mechanism. No. 918,813; Apr. 20; Sp. p. 3845; Gaz. vol. 141; p. 680.
- Armstrong, H. Y., Elgin, Ill. Machine for breaking slabs of gum into sticks. No. 924,955; June 15; Sp. p. 3979; Gaz. vol. 143; p. 681.
- Armstrong, J., London, England. Coke-oven. No. 917,744; Apr. 13; Sp. p. 1543; Gaz. vol. 141; p. 293.
- Armstrong, J. E., Santa Cruz, Cal. Wheelbarrow. No. 915,533; Mar. 16; Sp. p. 3851; Gaz. vol. 140; p. 669.
- Armstrong, J. F., Columbus, Ohio. Spring-motor. No. 916,523; Mar. 30; Sp. p. 5847; Gaz. vol. 140; p. 1049.
- Armstrong, J. T., Pittsburg, Kans. Churn. No. 933,948; Sept. 14; Sp. p. 2006; Gaz. vol. 146; p. 330.
- Armstrong, J. W. (See Dougherty and Armstrong.)
- Armstrong, L. (See Richards, C. H., assignor.)
- Armstrong, L. D., Dallas, Tex. Metallic flue. No. 939,652; Nov. 9; Sp. p. 2663; Gaz. vol. 148; p. 440.
- Armstrong, L. T. (See Addison and Armstrong.)
- Armstrong, M., Kansas City, Mo. Explosive toy. No. 935,083; Sept. 28; Sp. p. 4251; Gaz. vol. 146; p. 760.
- Armstrong, P., assignor to Armstrong Brothers Tool Company, Chicago, Ill. Ratchet-drill. No. 914,012; Mar. 2; Sp. p. 782; Gaz. vol. 140; p. 120.
- Armstrong, R., Victoria, British Columbia, Canada. Compressed-air signal. No. 934,785; Sept. 21; Sp. p. 3629; Gaz. vol. 146; p. 633.
- Armstrong, S., Vaneboro, Me. Moccasin. No. 914,220; Mar. 2; Sp. p. 1200; Gaz. vol. 140; p. 188.



*Alphabetical list of patentees—Continued.*

- Armstrong, S., Burton-upon-Trent, England. Brewing, distilling, and the like. No. 915,150; Mar. 16; Sp. p. 3106; Gaz. vol. 140; p. 545.
- Armstrong Sliding Door Company *et al.* (See Armstrong, W. P., assignor.)
- Armstrong, U. S., New Kensington, Pa. Resilient flexible conduit. No. 910,770; Jan. 26; Sp. p. 4793; Gaz. vol. 138; p. 887.
- Armstrong, V. C., assignor to Rail Joint Company, New York, N. Y. Compromise rail-joint. No. 912,640; Feb. 16; Sp. p. 3341; Gaz. vol. 139; p. 599.
- Armstrong, W. J., Chicago, Ill. Piston. No. 908,932; Jan. 5; Sp. p. 1027; Gaz. vol. 138; p. 165.
- Armstrong, W. P., Washington, D. C. Can-punch. No. 919,675; Apr. 27; Sp. p. 5834; Gaz. vol. 141; p. 1001.
- Armstrong, W. P., assignor of one-fourth to E. Kingsbury, Los Angeles, Cal., and three-fourths to Armstrong Sliding Door Company, Wilmington, Del. Double-action double door. No. 931,247; Aug. 17; Sp. p. 3435; Gaz. vol. 145; p. 596.
- Armstrong Whitworth & Company, W. G. (See Sodeau, W. H., assignor.)
- Arnaud, L. C., Forcalquier, Basses-Alpes, France. Frictional gearing. No. 939,653; Nov. 9; Sp. p. 2664; Gaz. vol. 148; p. 440.
- Arndt, E. L., and J. I. Marquart, Beaver Dam, Wis. Bottle-washer. No. 909,736; Jan. 12; Sp. p. 2632; Gaz. vol. 138; p. 465.
- Arndt, H., and A. Nürnberg, Berlin, Germany. Apparatus for distributing compressed air for purposes of ventilation. No. 922,236; May 18; Sp. p. 4411; Gaz. vol. 142; p. 766.
- Arndt, M., Aix-la-Chapelle, Germany. Indicator for continuously registering the mean working pressure. No. 922,553; May 25; Sp. p. 5057; Gaz. vol. 142; p. 898.
- Arndt, M., Aix-la-Chapelle, Germany. Indicator. No. 927,207; July 6; Sp. p. 1050; Gaz. vol. 144; p. 169.
- Arnesen, A. M., Chicago, Ill. Ventilator. No. 944,250; Dec. 28; Sp. p. 4745; Gaz. vol. 149; p. 839.
- Arnesen, C., Portland, Oreg. Car-fender. No. 935,574; Sept. 28; Sp. p. 5244; Gaz. vol. 146; p. 920.
- Arnesen, E., Myrtle Point, Oreg. Pruning-shears. No. 938,627; Nov. 2; Sp. p. 411; Gaz. vol. 148; p. 62.
- Arneson, O. A., assignor to Yale Manufacturing Company, Chicago, Ill. Lamp. No. 930,019; Aug. 3; Sp. p. 835; Gaz. vol. 145; p. 134.
- Arneson, O. A., assignor to Yale Manufacturing Company, Chicago, Ill. Gasolene or vapor lamp. No. 930,020; Aug. 3; Sp. p. 837; Gaz. vol. 145; p. 135.
- Arnfield, A., Lawrence, Mass. Grate for cotton-lappers. No. 929,533; July 27; Sp. p. 5841; Gaz. vol. 144; p. 1026.
- Arnold, A. A. (See Freund, S., assignor.)
- Arnold, A. H., Central, S. C. Self-weighing scoop. No. 916,251; Mar. 23; Sp. p. 5274; Gaz. vol. 140; p. 933.
- Arnold, C., Hamburg, Germany. Electromagnet for clocks and motors. No. 929,269; July 27; Sp. p. 5316; Gaz. vol. 144; p. 939.
- Arnold, C. F., Philadelphia, Pa. Shuttle-operating mechanism. No. 942,698; Dec. 7; Sp. p. 1374; Gaz. vol. 149; p. 226.
- Arnold, E., Karlsruhe, Germany, and J. L. La Cour, Vesteras, Sweden. Arrangement for regulation of speed of compensated single-phase motors. No. 940,492; Nov. 16; Sp. p. 4548; Gaz. vol. 148; p. 760.
- Arnold, E. B. (See Sonnichsen, A. M., assignor.)
- Arnold, E. B., Milwaukee, Wis. Publication-binder. No. 916,963; Apr. 6; Sp. p. 5; Gaz. vol. 141; p. 4.
- Arnold, E. P., Chicago, Ill. Combined grain drier, cooler, and bleacher. No. 915,534; Mar. 16; Sp. p. 3852; Gaz. vol. 140; p. 669.
- Arnold, F. H., Reading, Pa. Safety-razor. No. 913,186; Feb. 23; Sp. p. 4464; Gaz. vol. 139; p. 804.
- Arnold, G. E., Pickrell, Nebr. Grain-separator. No. 934,989; Sept. 28; Sp. p. 4052; Gaz. vol. 146; p. 728.
- Arnold, H., Greenwich, Conn. Shade-bracket. No. 923,000; May 25; Sp. p. 5976; Gaz. vol. 142; p. 1042.
- Arnold, H., Newmarket, Ontario, Canada. Seeding-machine. No. 939,964; Nov. 16; Sp. p. 3334; Gaz. vol. 148; p. 577.
- Arnold, H. B., assignor to National Spring Bed Company, New Britain, Conn. Extension-bedstead. No. 924,626; June 15; Sp. p. 3303; Gaz. vol. 143; p. 569.
- Arnold, H. B., assignor to National Spring Bed Company, New Britain, Conn. Extension-bedstead. No. 943,170; Dec. 14; Sp. p. 2453; Gaz. vol. 149; p. 417.
- Arnold, H. F. W., Newton, Mass. Hat-badge. No. 927,763; July 13; Sp. p. 2208; Gaz. vol. 144; p. 382.
- Arnold, I., Ottawa, Kans. Letter-holder. No. 929,370; July 27; Sp. p. 5566; Gaz. vol. 144; p. 975.
- Arnold, J. D., assignor to Vapor Heating Company, Philadelphia, Pa. Vapor heating system. No. 909,737; Jan. 12; Sp. p. 2633; Gaz. vol. 138; p. 465.
- Arnold, J. L., Canton, Ohio. Churn. No. 936,400; Oct. 12; Sp. p. 1671; Gaz. vol. 147; p. 283.
- Arnold, L. E., Honolulu, Hawaii. Slicing-machine. No. 930,021; Aug. 3; Sp. p. 839; Gaz. vol. 145; p. 135.
- Arnold, L. F. (See Hargraves, A. W., assignor.)
- Arnold, L. F., *et al.* (See Jahansan, G., assignor.)
- Arnold, S. C., Ottawa, Ohio. Kitchen utensil. No. 930,917; Aug. 10; Sp. p. 2670; Gaz. vol. 145; p. 457.
- Arnold, W. S., San Francisco, Cal. Cuff-holder. No. 940,225; Nov. 16; Sp. p. 3941; Gaz. vol. 148; p. 670.
- Arnstern, H., Dayton, Ohio. Vegetable-grater. No. 913,187; Feb. 23; Sp. p. 4465; Gaz. vol. 139; p. 804.
- Arnt, H. P., assignor to W. R. Angell, Chicago, Ill. Folding table. No. 915,061; Mar. 16; Sp. p. 2881; Gaz. vol. 140; p. 515.
- Aron, H., Charlottenburg, Germany. Induction supply-meter for polyphase electric currents. No. 944,167; Dec. 21; Sp. p. 4587; Gaz. vol. 149; p. 787.
- Aronson, L. V., Newark, N. J. Combination-wrench. No. 942,993; Dec. 14; Sp. p. 2079; Gaz. vol. 149; p. 358.
- Aronson, S., assignor of one-third to L. Ehrlich, New York, N. Y. Type-writer. No. 939,965; Nov. 16; Sp. p. 3335; Gaz. vol. 148; p. 577.
- Arp, W. C., and F. F. Hildreth, Terre Haute, Ind. Wheel-tire contour-recorder. No. 935,728; Oct. 5; Sp. p. 220; Gaz. vol. 147; p. 86.
- Arquembourg, E. H. (See Grouvelle and Arquembourg.)
- Arquembourg, E. H. (See Grouvelle, Arquembourg, and Joret.)
- Arras, P. D., Rawson, Ohio. Plow. No. 927,703; July 13; Sp. p. 2086; Gaz. vol. 144; p. 362.
- Arrington, J. B., assignor of one-half to O. Williams, Grove Hill, N. C. Axle-box for railway-cars. No. 915,011; Mar. 9; Sp. p. 2781; Gaz. vol. 140; p. 470.
- Arrow Electric Company. (See Perkins, C. G., assignor.)
- Arrow Electric Company. (See Peterson, J. G., assignor.)
- Arrow Electric Company. (See York, J. A., assignor.)
- Arrowsmith, J. W., Morristown, assignor to Arrowsmith Manufacturing Co., Chester, N. J. Instep-support or arch-prop. (Reissue.) No. 13,026; Oct. 19; Sp. p. 4472; Gaz. vol. 147; p. 758.
- Arrowsmith Manufacturing Co. (See Arrowsmith, J. W., assignor.) (Reissue.)
- Arruebarrena, M., Cienfuegos, Cuba. Liquid-strainer. No. 932,842; Aug. 31; Sp. p. 6798; Gaz. vol. 145; p. 1166.
- Arsem, W. C., Schenectady, N. Y., assignor to General Electric Company. Asymmetric cell. No. 929,371; July 27; Sp. p. 5567; Gaz. vol. 144; p. 976.
- Art Metal Construction Company. (See Ohnstrand, E., assignor.)
- Art Metal Construction Company. (See Peterson and Ekedahl, assignors.)
- Art Metal Construction Company. (See Sampson, E. G., assignor.)
- Art Metal Construction Company. (See Stearns, L. M., assignor.)
- Art Metal Construction Company. (See Stone, J. N., assignor.)
- Art Stove Company. (See Coda, C. F., assignor.)
- Arter, A. (See Baker, J. D., assignor.)
- Arthur, A. C., Columbus, Ohio. Gas-range. No. 918,253; Apr. 13; Sp. p. 2635; Gaz. vol. 141; p. 467.
- Arthur, B. F., *et al.* (See Smith, H. K., assignor.)
- Arthur, C., Newark, N. J., assignor, by mesne assignments, to H. Ginnel, Garden City, N. Y. Watch-bow attachment. No. 911,361; Feb. 2; Sp. p. 664; Gaz. vol. 139; p. 113.
- Arthur Colton Company. (See Scott, B. W., assignor.)
- Arthur, H. N., Lawrence, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 936,510; Oct. 12; Sp. p. 1931; Gaz. vol. 147; p. 319.
- Arthur, H. N., Longmont, assignor to M. Harrison, Denver, Colo. Beet-topper. No. 933,687; Sept. 7; Sp. p. 1480; Gaz. vol. 146; p. 223.
- Arthur, J. M., and J. P. Birmingham, Lexington, Va. Coupling-pin lifter. No. 926,636; June 29; Sp. p. 7352; Gaz. vol. 143; p. 1297.
- Arthur Koppel Aktiengesellschaft. (See Ullmann, E., assignor.)
- Arthur, M., *et al.* (See Matesek, J., assignor.)
- Arthur, S. (See Alderman, D. W., assignor.)
- Arthur, T. A., Los Angeles, Cal. Hose-coupling and turn-plug. No. 938,297; Oct. 20; Sp. p. 5636; Gaz. vol. 147; p. 964.
- Artisan Brass Company. (See Desmond, J., assignor.)
- Artman, D. C., Tarentum, Pa. Furnace. No. 923,478; June 1; Sp. p. 818; Gaz. vol. 143; p. 122.
- Arundel, H. (See Higginson and Arundel.)
- Ary, G. A., *et al.* (See Leftwich, F. H., assignor.)
- Asbell, W. J., Belvidere, N. C. Cultivator. No. 909,512; Jan. 12; Sp. p. 2191; Gaz. vol. 138; p. 389.
- Asbury, W., New York, N. Y. Single-opening safety-container. No. 914,779; Mar. 9; Sp. p. 2368; Gaz. vol. 140; p. 397.
- Asbury, W., New York, N. Y. Safety-container. No. 931,370; Aug. 17; Sp. p. 3703; Gaz. vol. 145; p. 640.
- Asbury, W., assignor to Square Deal Machine Co., New York, N. Y. Vending-machine. No. 921,338; May 11; Sp. p. 2564; Gaz. vol. 142; p. 443.
- Asch, S., New York, N. Y. Locking device for awning cords or straps. No. 937,503; Oct. 19; Sp. p. 3999; Gaz. vol. 147; p. 678.

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- Aschenbrenner, A., Berlin, Germany, assignor to American Thermos Bottle Company, Brooklyn, N. Y. Double-walled vessel. No. 912,986; Feb. 23; Sp. p. 4065; Gaz. vol. 139; p. 737.
- Ascue, W. H., Kiowa, Kans. Grain-car door. No. 942,994; Dec. 14; Sp. p. 2080; Gaz. vol. 149; p. 358.
- Aseptic Drinking Cup Company. (See Potter, H. J., assignor.)
- Ash, F. S. (See Anderson, H. C., assignor.)
- Ash, H. W., Cambridge, Mass., assignor to Warren Brothers Company, Charleston, W. Va. Still for distilling crude bituminous products. No. 917,702; Apr. 6; Sp. p. 1439; Gaz. vol. 141; p. 252.
- Ash, T. W., Sherman, Tex. Safety air-brake appliance. No. 941,295; Nov. 23; Sp. p. 6290; Gaz. vol. 148; p. 1052.
- Ashby, C. E. and L. A., Dixon, Ill. Quilting-frame. No. 928,418; July 20; Sp. p. 3576; Gaz. vol. 144; p. 632.
- Ashby, L. A. (See Ashby, C. E. and L. A.)
- Ashby, L. A., assignor of one-half to E. E. Hilderbrand, Dixon, Ill. Quilting-frame. No. 909,357; Jan. 12; Sp. p. 1872; Gaz. vol. 138; p. 336.
- Ashby, P., Central Falls, R. I. Friction let-off mechanism for looms. No. 908,724; Jan. 5; Sp. p. 627; Gaz. vol. 138; p. 97.
- Ashby, W. E., Chariton, Iowa. Telephone cut-out and lightning-arrester. No. 919,519; Apr. 27; Sp. p. 5517; Gaz. vol. 141; p. 948.
- Ashcraft, E. (See Everett and Ashcraft.)
- Ashcroft, M., Reva, S. D. Ventilator. No. 913,449; Feb. 23; Sp. p. 5000; Gaz. vol. 139; p. 894.
- Ashcroft Manufacturing Company. (See Blanchard and Crocker, assignors.)
- Ashe, J. C., Montreal, Quebec, Canada. Combined burglar-alarm and automatic camera. No. 943,232; Dec. 14; Sp. p. 2583; Gaz. vol. 149; p. 437.
- Ashenden, E. W., Minneapolis, Minn. Game-piece. No. 943,058; Dec. 14; Sp. p. 2244; Gaz. vol. 149; p. 380.
- Ashenden, E. W., assignor to Wm. Bros Boiler & Manufacturing Co., Minneapolis, Minn. Rib for boiler-arches. No. 931,834; Aug. 24; Sp. p. 4675; Gaz. vol. 145; p. 810.
- Asifford, J., Amritsar, India. Conveyer. No. 924,303; June 8; Sp. p. 2641; Gaz. vol. 143; p. 430.
- Ashley, C. G., Chicago, Ill. Receiver. No. 908,725; Jan. 5; Sp. p. 629; Gaz. vol. 138; p. 98.
- Ashley, F. M., New York, N. Y. Mailing-tube. No. 932,425; Aug. 31; Sp. p. 5906; Gaz. vol. 145; p. 1029.
- Ashley, F. M., New York, N. Y. Savings-bank. No. 935,451; Sept. 28; Sp. p. 4971; Gaz. vol. 146; p. 878.
- Ashley, F. M., New York, N. Y. Generating and storing ozone. No. 942,046; Dec. 7; Sp. p. 2; Gaz. vol. 149; p. 3.
- Ashley, F. M., Brooklyn, N. Y. Valve. No. 942,045; Dec. 7; Sp. p. 1; Gaz. vol. 149; p. 3.
- Ashley, F. M., Brooklyn, assignor of one-half to A. T. Scharps, New York, N. Y. Water-gage. No. 937,276; Oct. 19; Sp. p. 3495; Gaz. vol. 147; p. 604.
- Ashley, L. W., assignor to Milwaukee Hardware Manufacturing Company, Milwaukee, Wis. Hinge. No. 911,694; Feb. 9; Sp. p. 1340; Gaz. vol. 139; p. 249.
- Ashley, W. J., Oak Park, Ill. Attachment for projection apparatus. No. 941,752; Nov. 30; Sp. p. 7266; Gaz. vol. 148; p. 1225.
- Ashley, W. J., assignor of one-sixth to E. C. Galbreath, one-sixth to C. F. Seitz, and one-third to R. C. Albrook, Denver, Colo. Electric railway-signal. No. 917,703; Apr. 6; Sp. p. 1441; Gaz. vol. 141; p. 253.
- Ashlock, H. H., Kansas City, Mo. Railway-tie. No. 916,964; Apr. 6; Sp. p. 6; Gaz. vol. 141; p. 4.
- Ashlock, H. H., Kansas City, Mo. Oil-burner. No. 924,216; June 8; Sp. p. 2465; Gaz. vol. 143; p. 400.
- Ashmead, J. H., Silver Bay, N. Y. Broom-hanger. No. 927,208; July 6; Sp. p. 1052; Gaz. vol. 144; p. 170.
- Ashmum, S. H., Hoquiam, Wash. Berry-box. No. 922,659; May 25; Sp. p. 5277; Gaz. vol. 142; p. 933.
- Ashton, H. M. (See Wallder and Ashton.)
- Ashton, O., Lawrence, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Machine for inserting screw-threaded fastenings. No. 920,241; May 4; Sp. p. 299; Gaz. vol. 142; p. 49.
- Ashton, O., Lawrence, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Pegging-machine. No. 920,242; May 4; Sp. p. 312; Gaz. vol. 142; p. 49.
- Ashton, O., Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for applying plastic or adhesive material. No. 940,419; Nov. 16; Sp. p. 4398; Gaz. vol. 148; p. 736.
- Ashton, R. (See Mayer and Ashton.)
- Ashton, T. R. R., London, England. Magazine-firearm. No. 931,983; Aug. 24; Sp. p. 5017; Gaz. vol. 145; p. 859.
- Ashton Valve Company. (See Casey, F. A., assignor.)
- Ashton, W. E., Philadelphia, Pa. Gas-purifier. No. 929,270; July 27; Sp. p. 5317; Gaz. vol. 144; p. 940.
- Ashwell, J. H., New Basford, England. Machine for dyeing hanks. No. 909,513; Jan. 12; Sp. p. 2193; Gaz. vol. 138; p. 389.
- Ashworth, E. M., Birmingham, England. Carding-engine. No. 944,168; Dec. 21; Sp. p. 4588; Gaz. vol. 149; p. 787.
- Askogren, C. M., Pensacola, Fla. Car-ventilator. No. 939,784; Nov. 9; Sp. p. 2949; Gaz. vol. 148; p. 486.
- Askenasy, P., and M. Mugdan, Nuremberg, Germany. Making dichloroethylene. No. 924,304; June 8; Sp. p. 2646; Gaz. vol. 143; p. 430.
- Askew, C. B., Chicago, Ill. Hydraulic excavator. No. 934,031; Sept. 14; Sp. p. 2154; Gaz. vol. 146; p. 356.
- Askew, C. B., Chicago, Ill. Ignition system for internal-combustion engines. No. 941,124; Nov. 23; Sp. p. 5917; Gaz. vol. 148; p. 995.
- Askins, J. D., *et al.* (See Curtis, T. F., assignor.)
- Askling, C. W., Söderhamn, Sweden. Electric igniting device for reversible internal-combustion engines. No. 923,929; June 8; Sp. p. 1838; Gaz. vol. 143; p. 306.
- Aslakson, B. M., Salem, Ohio. Internal-combustion engine. No. 921,657; May 18; Sp. p. 3226; Gaz. vol. 142; p. 575.
- Aslakson, B. M., Salem, Ohio. Gas-producer valve. No. 943,332; Dec. 14; Sp. p. 2793; Gaz. vol. 149; p. 471.
- Asp, A. J. (See Korinko and Asp.)
- Aspenleiter, J., Cincinnati, Ohio, assignor to Stokes and Smith Company, Philadelphia, Pa. Machine for covering paper boxes. No. 912,772; Feb. 16; Sp. p. 3665; Gaz. vol. 139; p. 645.
- Aspenleiter, J., and O. A. Miller, Cincinnati, Ohio. Toilet-paper holder. No. 922,745; May 25; Sp. p. 5457; Gaz. vol. 142; p. 960.
- Asper, H., Butler, Pa. Friction draft and buffing mechanism. No. 933,046; Sept. 7; Sp. p. 4; Gaz. vol. 146; p. 3.
- Aspin, F. (See Pierce and Aspin.)
- Asplund, C. F., Minneapolis, Minn. Seed-corn separator. No. 909,358; Jan. 12; Sp. p. 1874; Gaz. vol. 138; p. 336.
- Asquith, S. A., Waterloo Iowa. Separable fastener. No. 940,917; Nov. 23; Sp. p. 5465; Gaz. vol. 148; p. 926.
- Assmann, F., Leichlingen, Germany. Door-lock. No. 943,133; Dec. 14; Sp. p. 2385; Gaz. vol. 149; p. 406.
- Association Thürey-Schreibmaschinen-Gesellschaft mit beschränkter Haftung. (See Thürey, E., assignor.)
- Assorati, A., New York, N. Y. Shoe-fastening. No. 910,771; Jan. 26; Sp. p. 4794; Gaz. vol. 138; p. 867.
- Ast, H., Vienna, Austria-Hungary. Arrangement of windings for electromagnetic clutches. No. 918,254; Apr. 13; Sp. p. 2636; Gaz. vol. 141; p. 467.
- Ast, H., assignor to Vulkan Maschinenfabriks-Actien-Gesellschaft, Vienna, Austria-Hungary. Electromagnetic clutch. No. 914,375; Mar. 9; Sp. p. 1546; Gaz. vol. 140; p. 263.
- Astor, J. J., New York, N. Y. Vibratory disintegrator for gas-producers. No. 940,493; Nov. 16; Sp. p. 4550; Gaz. vol. 148; p. 761.
- Astoria Iron Works. (See Eldridge, J., assignor.)
- Astrom, C. P. (See Treadwell and Astrom.)
- Astrom, C. P., East Orange, N. J., assignor to M. H. Treadwell Company. Dumping-car. No. 925,792; June 22; Sp. p. 5669; Gaz. vol. 143; p. 984.
- Astrom, C. P., Hasbrouck Heights, N. J., assignor to M. H. Treadwell Company. Dumping-car. No. 928,837; July 20; Sp. p. 4414; Gaz. vol. 144; p. 769.
- Astruc, A., Courbevoile, France. Manufacture of bimetals. No. 924,413; June 8; Sp. p. 2853; Gaz. vol. 143; p. 466.
- Atcherson, R. W. H., and W. Siddall, Bellaire, Ohio. Effecting the precipitation of flue-dust in blast-furnaces and of preventing the formation of the same. No. 912,641; Feb. 16; Sp. p. 3343; Gaz. vol. 139; p. 600.
- Atchison, H. E., Ogden, Utah, assignor to American Post and Pole Company. Post or telegraph and telephone pole. No. 943,134; Dec. 14; Sp. p. 2388; Gaz. vol. 149; p. 406.
- Ateliers et Chantiers Augustin Normand. (See Normand, M. A., assignor.)
- Aten, M. L. (See Blessing, Aten, and Poirier.)
- Atha, L. M., Newark, N. J. Making steel. No. 943,171; Dec. 14; Sp. p. 2455; Gaz. vol. 149; p. 417.
- Athay, D., *et al.* (See McLean, M. F., assignor.)
- Athearn, H. E., Brooklyn, N. Y. Antenna for wireless telegraphy. No. 918,255; Apr. 13; Sp. p. 2639; Gaz. vol. 141; p. 468.
- Athearn, W. E., New York, N. Y., assignor to American Telephone and Telegraph Company. Nullifying inductive disturbances. No. 940,654; Nov. 23; Sp. p. 4597; Gaz. vol. 148; p. 839.
- Athearn, W. E., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical conducting system. No. 940,655; Nov. 23; Sp. p. 4900; Gaz. vol. 148; p. 839.
- Athearn, W. E., New York, N. Y., assignor to American Telephone and Telegraph Company. Telegraphic repeating apparatus. No. 942,807; Dec. 7; Sp. p. 1590; Gaz. vol. 149; p. 262.
- Atherton, C. (See Gribbel and Atherton.)
- Atherton, C. T., assignor to Atherton Spinning Ring Company, Providence, R. I. Rotary ring spinning and twisting machine. No. 913,654; Feb. 23; Sp. p. 5460; Gaz. vol. 139; p. 961.



*Alphabetical list of patentees—Continued.*

- Atherton, D., Philipsburg, Pa. Paving-block. No. 933,521; Sept. 7; Sp. p. 1162; Gaz. vol. 146; p. 167.
- Atherton, E. F., Cleveland, Ohio. Clam-shell bucket. No. 916,965; Apr. 6; Sp. p. 7; Gaz. vol. 141; p. 4.
- Atherton, G., Stockport, England. Apparatus for curling and ironing the edges of hat-brims. No. 927,313; July 6; Sp. p. 1241; Gaz. vol. 144; p. 204.
- Atherton Spinning Ring Company. (See Atherton, C. T., assignor.)
- Athey, I. H., Chicago, assignor to D. J. Burlingame, La Grange, Ill. Cabinet. No. 908,830; Jan. 5; Sp. p. 833; Gaz. vol. 138; p. 130.
- Athey, U. S. G., St. Louis, Mo. Reinforced-concrete floor construction. No. 940,296; Nov. 16; Sp. p. 4095; Gaz. vol. 143; p. 694.
- Atkins, A. N., Ida, La. Animal-trap. No. 914,912; Mar. 9; Sp. p. 2628; Gaz. vol. 140; p. 440.
- Atkins, C. H., Springfield, Mass. Internal-combustion motor. No. 925,793; June 22; Sp. p. 5674; Gaz. vol. 143; p. 984.
- Atkins, C. J., Cando, N. D. Vehicle-wrench. No. 909,514; Jan. 12; Sp. p. 2194; Gaz. vol. 138; p. 389.
- Atkins, G. W., Milton, assignor of one-half to W. E. Townsend, Felton, Del. Buggy-curtain. No. 922,073; May 18; Sp. p. 4074; Gaz. vol. 142; p. 712.
- Atkins, S. J., Cando, N. D. Plow-bolt. No. 919,303; Apr. 27; Sp. p. 5038; Gaz. vol. 141; p. 875.
- Atkins, W., assignor of two-thirds to A. W. MacRae, St. John, New Brunswick, Canada. Nut-lock. No. 939,654; Nov. 9; Sp. p. 2666; Gaz. vol. 148; p. 441.
- Atkinson, C. C., Hawkinsville, Ga. Fertilizer-distributor. No. 937,563; Oct. 19; Sp. p. 4114; Gaz. vol. 147; p. 700.
- Atkinson, C. E., Richmond, Ind. Hose or pipe coupling. No. 942,047; Dec. 7; Sp. p. 5; Gaz. vol. 149; p. 3.
- Atkinson, E. H., Ferris, Tex. Sunshade-holder. No. 931,371; Aug. 17; Sp. p. 3704; Gaz. vol. 145; p. 640.
- Atkinson, F. S. (See Blodgett and Atkinson.)
- Atkinson, H. G. (See Russell, Atkinson, and Baker.)
- Atkinson, J. B. (See Atkinson, O., assignor.)
- Atkinson, J. B., *et al.* (See Lunn, M. R., assignor.)
- Atkinson, J. J., Houston, Tex. Filing-cabinet. No. 920,243; May 4; Sp. p. 318; Gaz. vol. 142; p. 50.
- Atkinson, J. W., Benton, Ark. Water-power wheel. No. 921,940; May 18; Sp. p. 3801; Gaz. vol. 142; p. 668.
- Atkinson, O., *et al.* (See Lunn, M. R., assignor.)
- Atkinson, O., assignor of one-half to J. B. Atkinson, Adrian, Mo. Draft appliance. No. 939,378; Nov. 9; Sp. p. 2081; Gaz. vol. 148; p. 247.
- Atkinson, R., Cleveland, Ohio. Gage. No. 941,843; Nov. 30; Sp. p. 7485; Gaz. vol. 148; p. 1253.
- Atkinson, R. E., Knighton, England. Steam-heating system. No. 920,244; May 4; Sp. p. 321; Gaz. vol. 142; p. 50.
- Atkinson, S. F., McVeytown, Pa. Adjustable gage. No. 916,252; Mar. 23; Sp. p. 5276; Gaz. vol. 140; p. 933.
- Atkinson, T. N., St. Margarets-on-Thames, England, assignor of one-half to O. List, St. Petersburg, Russia. Point-operating mechanism for tramways. No. 939,939; Nov. 9; Sp. p. 3274; Gaz. vol. 148; p. 540.
- Atkison, W. W., assignor of one-third to M. K. Jones, Savannah, Ga., and one-third to W. H. Martin, Sheffield, Ala. Attachment for bedsteads. No. 921,339; May 11; Sp. p. 2569; Gaz. vol. 142; p. 443.
- Atlanta Paper Company. (See Trounstone, L. J., assignor.)
- Atlantic Drier Company. (See Shepard, H. W., assignor.)
- Atlantic Mills. (See Southwell, J., assignor.)
- Atlas Engine Works. (See McCarty, N., assignor.)
- Atlas Engine Works. (See Morrison, B. J., assignor.)
- Atlas Engine Works. (See Withem, W., assignor.)
- Atlas Engine Works, trustee. (See Crook, G. L., assignor.)
- Atlas Machine Tool Company. (See Trefethen, C. G., assignor.)
- Atlas Torch and Brass Company. (See Schemnitz, L., assignor.)
- Atmajian, G. (See Hovsepian, J., assignor.)
- Attaway, E., Morrow, La. Insect-catcher. No. 940,116; Nov. 16; Sp. p. 3706; Gaz. vol. 148; p. 631.
- Attleboro Chain Company. (See Forsell, F. E., assignor.)
- Attridge, J. H. (See Weidel, H. F., assignor.)
- Attridge, O. H., *et al.* (See Moritz, A., assignor.)
- Attwell, T. E., Hadleigh, England. Device for roasting chestnuts and the like. No. 923,756; June 1; Sp. p. 1415; Gaz. vol. 143; p. 220.
- Atwater, C. G., Flushing, N. Y. Damper for furnaces. No. 936,288; Oct. 12; Sp. p. 1413; Gaz. vol. 147; p. 245.
- Atwater, C. G., Flushing, N. Y., assignor to United Coke and Gas Company. Door for furnaces. No. 929,534; July 27; Sp. p. 5843; Gaz. vol. 144; p. 1027.
- Atwater, H. R., assignor to Osborn Manufacturing Company, Cleveland, Ohio. Mold-making machine. No. 937,036; Oct. 19; Sp. p. 2991; Gaz. vol. 147; p. 525.
- Atwood, E. K. (See McHale, P. and J., assignors.)
- Atwood, G. F., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. System of motor control. No. 911,932; Feb. 9; Sp. p. 1771; Gaz. vol. 139; p. 326.
- Atwood, J. A., Beaver, Pa. Cross-tie for railways. No. 909,359; Jan. 12; Sp. p. 1877; Gaz. vol. 138; p. 336.
- Atwood, J. A., Beaver, Pa. Bridge. No. 915,261; Mar. 16; Sp. p. 3323; Gaz. vol. 140; p. 580.
- Atwood, J. B., Allegheny, Pa. Railway-car-control apparatus. No. 916,405; Mar. 30; Sp. p. 5575; Gaz. vol. 140; p. 1010.
- Atwood, J. H., Empire City, Kans. Gas-burner. No. 929,072; July 27; Sp. p. 4902; Gaz. vol. 144; p. 874.
- Atwood, L., assignor of one-fourth to J. M. O. Hewitt, Philadelphia, Pa. Tubular structure. No. 910,891; Jan. 26; Sp. p. 5026; Gaz. vol. 138; p. 905.
- Atwood, L., Philadelphia, assignor of one-half to A. L. Register, Ardmore, Pa. Clutch. No. 923,613; June 1; Sp. p. 1126; Gaz. vol. 143; p. 172.
- Atwood, L., Philadelphia, Pa., assignor of one-third to A. H. Gillard, Brooklyn, N. Y. Machine for cutting friction fabrics. No. 933,688; Sept. 7; Sp. p. 1483; Gaz. vol. 146; p. 223.
- Atwood-Morrison Company. (See Bradley, E. E., assignor.)
- Atwood, W. F., Whitman, Mass. Shoe-rack. No. 928,419; July 20; Sp. p. 3578; Gaz. vol. 144; p. 633.
- Atwood, W. S. (See Vandercook, F. E., assignor.)
- Atwood, W. S., Montreal, Quebec, assignor to Dominion Car & Foundry Company, Limited, Blue Bonnets, near Montreal, Canada. Side stake for cars. No. 909,128; Jan. 5; Sp. p. 1437; Gaz. vol. 138; p. 230.
- Atz, W. J., Marion, Iowa. Loading-gate for car-doors. No. 934,496; Sept. 21; Sp. p. 3074; Gaz. vol. 146; p. 536.
- Aubé, O., Montreal, Quebec, Canada. Furnace-door. No. 925,444; June 22; Sp. p. 4935; Gaz. vol. 143; p. 871.
- Auberlin, C., Dearborn, assignor of one-fourth to J. D. Fry and one-fourth to H. Auberlin, Detroit, Mich. Music-leaf turner. No. 920,003; Apr. 27; Sp. p. 6499; Gaz. vol. 141; p. 1109.
- Auberlin, H., *et al.* (See Auberlin, C., assignor.)
- Aubury, F. H., Oneida, N. Y. Automobile-headlight bracket and mechanism for turning same. No. 938,456; Nov. 2; Sp. p. 7; Gaz. vol. 148; p. 3.
- Aubrey, J. A., Hammond, Ind. Gaging attachment for ice-cream molds. No. 938,628; Nov. 2; Sp. p. 413; Gaz. vol. 148; p. 62.
- Auble, J. H., Cincinnati, assignor of two-thirds to J. H. Bromwell, Wyoming, and J. J. McDonald, Cincinnati, Ohio. Lawn-mower. No. 929,814; Aug. 3; Sp. p. 393; Gaz. vol. 145; p. 65.
- Auble, J. H., Cincinnati, assignor of two-thirds to J. H. Bromwell, Wyoming, and J. J. McDonald, Cincinnati, Ohio. Lawn-mower. No. 930,329; Aug. 3; Sp. p. 1420; Gaz. vol. 145; p. 236.
- Aubrey, A. J., Meriden, Conn. Firearm. No. 911,362; Feb. 2; Sp. p. 666; Gaz. vol. 139; p. 113.
- Aubrey, A. J., Meriden, Conn. Rifle-barrel construction. No. 918,491; Apr. 20; Sp. p. 3120; Gaz. vol. 141; p. 573.
- Aubrey, F., Summerville, Pa. Safety-envelop. No. 917,518; Apr. 6; Sp. p. 1097; Gaz. vol. 141; p. 192.
- Aubury, L. E. (See Eliel, A. L. and O. H., assignors.)
- Auchy, H. B., Philadelphia, Pa. Power mechanism for carousels. No. 937,750; Oct. 26; Sp. p. 4482; Gaz. vol. 147; p. 778.
- Audet, F. X., Boston, Mass. Musical instrument. No. 930,825; Aug. 10; Sp. p. 2465; Gaz. vol. 145; p. 427.
- Aue, H., Leon Springs, Tex. Scale. No. 920,004; Apr. 27; Sp. p. 6500; Gaz. vol. 141; p. 1110.
- Auer, J., San Francisco, Cal. Creeper. No. 914,780; Mar. 9; Sp. p. 2369; Gaz. vol. 140; p. 398.
- Auerbach, E. A., New York, N. Y. Ruling device. No. 942,877; Dec. 14; Sp. p. 1796; Gaz. vol. 149; p. 317.
- Auerbach, H. S., New York, N. Y. Treating certain ores. No. 941,904; Nov. 30; Sp. p. 7601; Gaz. vol. 148; p. 1280.
- Auerbach, L., *et al.* (See Cogswell, J. A., assignor.)
- Auffart, B. J., Maryville, Mo. Door attachment. No. 922,378; May 18; Sp. p. 4675; Gaz. vol. 142; p. 811.
- Aufiero, E., Brooklyn, N. Y. Timepiece. No. 927,472; July 13; Sp. p. 1579; Gaz. vol. 144; p. 284.
- Aug. Goertz & Co. (See Eigen, B. vom, assignor.)
- Augenbraun, P. F., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Duplex or master-key lock. No. 912,773; Feb. 16; Sp. p. 3671; Gaz. vol. 139; p. 645.
- Augenbraun, P. F., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Rim night-latch. No. 917,398; Apr. 6; Sp. p. 890; Gaz. vol. 141; p. 153.

*Alphabetical list of patentees—Continued.*

- Augenbraun, P. F., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 917,399; Apr. 6; Sp. p. 893; Gaz. vol. 141; p. 154.
- Augenbraun, P. F., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Rim-latch. No. 918,492; Apr. 20; Sp. p. 3121; Gaz. vol. 141; p. 573.
- Auger, A., Manchester, N. H. Plate-lifter. No. 916,524; Mar. 30; Sp. p. 5848; Gaz. vol. 140; p. 1049.
- Auger, E. P., Corinth, Miss. Concrete shingle. No. 912,057; Feb. 9; Sp. p. 2131; Gaz. vol. 139; p. 367.
- Auger, E. P., assignor of one-half to J. D. Ozier, Corinth, Miss. Concrete-block machine. No. 914,367; Mar. 2; Sp. p. 1526; Gaz. vol. 140; p. 236.
- Auger, G., Paris, France. Blowpipe for calcining incandescent filaments. No. 937,277; Oct. 19; Sp. p. 3497; Gaz. vol. 147; p. 605.
- Auger, J., assignor of one-half to T. Bacon, Marenisco, Mich. Door-fastener. No. 939,785; Nov. 9; Sp. p. 2950; Gaz. vol. 148; p. 486.
- August Maag Company. (See Leamann, J. E., assignor.)
- Augustin, L., assignor of one-fourth to L. Daudelin, St. Hyacinthe, Quebec, and one-half to Peat, Gas and Coal Company, Montreal, Canada. Retort. No. 924,305; June 8; Sp. p. 2647; Gaz. vol. 143; p. 430.
- Augustine, H. J., Mooreland, Okla. Hammer. No. 920,518; May 4; Sp. p. 861; Gaz. vol. 142; p. 139.
- Augustine, J. S., Taberg, N. Y. Swivel. No. 929,535; July 27; Sp. p. 5844; Gaz. vol. 144; p. 1027.
- Augustus, A. A., Cleveland, Ohio. Tank for gasoline, &c. No. 930,334; Aug. 10; Sp. p. 1439; Gaz. vol. 145; p. 263.
- Aull, J. J., assignor to Lunkenheimer Company, Cincinnati, Ohio. Combined throttle-valve and lubricator. No. 910,445; Jan. 19; Sp. p. 4117; Gaz. vol. 138; p. 738.
- Ault, J. I., Columbus, Ind. Trap-nest. No. 935,084; Sept. 28; Sp. p. 4252; Gaz. vol. 146; p. 760.
- Ault, W. S., Willshire, Ohio. Lamp-burner for incubators. No. 926,044; June 22; Sp. p. 6176; Gaz. vol. 143; p. 1056.
- Ault & Wiborg Company. (See Hochstetter, R. W., assignor.)
- Aultman, T. G., Fairmont, W. Va. Removable tire for car-wheels. No. 914,221; Mar. 2; Sp. p. 1202; Gaz. vol. 140; p. 188.
- Aumund, H., Cologne, Germany, assignor to C. W. Hunt Company, New York, N. Y. Hoisting apparatus. No. 922,554; May 25; Sp. p. 5059; Gaz. vol. 142; p. 899.
- Aune, A., Waltham, Mass. Watch. No. 940,117; Nov. 16; Sp. p. 3709; Gaz. vol. 148; p. 632.
- Aune, O. O., Waltham, Mass. Fountain-oiler. No. 925,794; June 22; Sp. p. 5683; Gaz. vol. 143; p. 985.
- Aunes, L., Cambridge, Mass. Pile-driver. No. 918,944; Apr. 20; Sp. p. 4143; Gaz. vol. 141; p. 724.
- Aupperle, G. H. (See Aupperle, J. A. and G. H.)
- Aupperle, J. A. and G. H., assignors of thirty-five one-hundredths to J. Coyle, Indianapolis, Ind. Inserted-tooth saw. No. 912,774; Feb. 16; Sp. p. 3673; Gaz. vol. 139; p. 646.
- Aurand, B. J., Laporte, Ind. Hinge. No. 916,648; Mar. 30; Sp. p. 6079; Gaz. vol. 140; p. 1089.
- Aurora Automatic Machinery Company. (See Levedahl, A., assignor.)
- Aurora Automatic Machinery Company. (See Norling, R. A., assignor.)
- Aurora Automatic Machinery Company. (See Ottaway, W., assignor.)
- Aurora Illuminating and Mangle Company. (See Fry, W. J., assignor.)
- Auscher, P., and C. Dehainault, Paris, France. Manifold-book. No. 932,365; Aug. 24; Sp. p. 5776; Gaz. vol. 145; p. 986.
- Auster, A. C., Birmingham, England. Hinge-joint for folding window-screens. No. 920,713; May 4; Sp. p. 1278; Gaz. vol. 142; p. 204.
- Austin, A. H., New Rochelle, N. Y. Automatic scale. No. 917,519; Apr. 6; Sp. p. 1098; Gaz. vol. 141; p. 192.
- Austin, A. J., Seattle, Wash. Striking-bag. No. 944,648; Dec. 28; Sp. p. 5639; Gaz. vol. 149; p. 978.
- Austin, A. T. (See Anderson, C. O., assignor.)
- Austin, C. A., New York, N. Y. Means for attaching mirrors to window-panes. No. 918,724; Apr. 20; Sp. p. 3679; Gaz. vol. 141; p. 652.
- Austin, C. G., Jr. (See Coleman, J. M., assignor.)
- Austin, C. R., Lind, Wash. Harness. No. 927,924; July 13; Sp. p. 2560; Gaz. vol. 144; p. 435.
- Austin, E. Y., Lynn, Mass. Last. No. 931,372; Aug. 17; Sp. p. 3706; Gaz. vol. 145; p. 640.
- Austin, F. B., assignor to Racine Economy Spring Company, Racine, Wis. Hinge. No. 931,715; Aug. 24; Sp. p. 4431; Gaz. vol. 145; p. 772.
- Austin, F. C. (See Bathrick, C. E., assignor.)
- Austin, F. C. (See Bunnell, M. G., assignor.)
- Austin, F. C. (See Rood, C. W., assignor.)
- Austin, F. C., Los Angeles, Cal. Car-fender. No. 917,520; Apr. 6; Sp. p. 1103; Gaz. vol. 141; p. 193.
- Austin, F. W., Cabool, Mo. Attachment for engineers' transits and hand-levels. No. 925,674; June 22; Sp. p. 5392; Gaz. vol. 143; p. 944.
- Austin, G., Arkansas City, Kans. Flue-expander. No. 943,907; Dec. 21; Sp. p. 4034; Gaz. vol. 149; p. 699.
- Austin, H. S., assignor to Volunteer Disc Plow Company, Chattanooga, Tenn. Scraper for reversible-disk plows. No. 943,372; Dec. 14; Sp. p. 2878; Gaz. vol. 149; p. 484.
- Austin, J., Newark, N. J. Automatic window. No. 919,520; Apr. 27; Sp. p. 5518; Gaz. vol. 141; p. 948.
- Austin, J., Newark, N. J. Window. No. 919,521; Apr. 27; Sp. p. 5520; Gaz. vol. 141; p. 948.
- Austin Manufacturing Company. (See Bunnell, M. G., assignor.)
- Austin Manufacturing Company. (See Charter, J. A., assignor.)
- Austin Manufacturing Company. (See Charter, J. A. and J., assignors.)
- Austin Manufacturing Company. (See Morenus, W. H., assignor.)
- Austin, N. E., Danbury, Conn. Irrigating device. No. 938,204; Oct. 26; Sp. p. 5459; Gaz. vol. 147; p. 933.
- Austin, N. E., Danbury, Conn. Animal-trap. No. 942,878; Dec. 14; Sp. p. 1797; Gaz. vol. 149; p. 317.
- Austin, R. M., Hartford, Conn. Cooking utensil. No. 913,450; Feb. 23; Sp. p. 5001; Gaz. vol. 139; p. 894.
- Austin, S. G., Wheeling, W. Va. Combined pants stretcher and presser. No. 927,630; July 13; Sp. p. 1930; Gaz. vol. 144; p. 338.
- Austin, W., Scranton, Pa., assignor to Delahunt Dyeing Machine Company. Automatic steam-separator. No. 917,400; Apr. 6; Sp. p. 894; Gaz. vol. 141; p. 154.
- Austin, W. A., Kansas City, Mo. Line-guide for fishing-reels. No. 938,948; Nov. 2; Sp. p. 1092; Gaz. vol. 148; p. 173.
- Austin, W. A., Kansas City, Mo. Fishing-rod. No. 942,030; Nov. 30; Sp. p. 7831; Gaz. vol. 148; p. 1319.
- Austin, W. F., et al. (See Pellet, A. V., assignor.)
- Austin, W. L., assignor to Burnham, Williams & Company, Philadelphia, Pa. Locomotive-tender truck. No. 913,609; Feb. 23; Sp. p. 5349; Gaz. vol. 139; p. 946.
- Austin, W. L., assignor to Burnham, Williams & Company, Philadelphia, Pa. Forward truck for locomotives. No. 940,494; Nov. 16; Sp. p. 4552; Gaz. vol. 148; p. 761.
- Austin, W. M. (See Cooper and Austin.)
- Austin, W. M., Swissvale, assignor to Westinghouse Air Brake Company, Pittsburgh, Pa. Air-brake triple valve. No. 915,723; Mar. 23; Sp. p. 4285; Gaz. vol. 140; p. 763.
- Austin, W. M., Swissvale, assignor to Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure air-brake. No. 915,724; Mar. 23; Sp. p. 4289; Gaz. vol. 140; p. 764.
- Austin, W. M., Swissvale, Pa., and S. C. Cooper, assignors of one-third to said Cooper, one-third to P. Keck, and one-third to S. E. Trumbull, Johnstown, N. Y. Trolley-replacer. No. 932,426; Aug. 31; Sp. p. 5907; Gaz. vol. 145; p. 1030.
- Austin-Walker Company. (See Richardson, H. W., assignor.)
- Autenrieth, C. F. (See Chandler and Autenrieth.)
- Autenrieth, W., Cincinnati, Ohio. Hand-grapple. No. 937,564; Oct. 19; Sp. p. 4117; Gaz. vol. 147; p. 700.
- Auth, J., and H. Kettler, Covington, Ky. Wagon-brake. No. 938,810; Nov. 2; Sp. p. 774; Gaz. vol. 148; p. 125.
- Auto Funeral Car Company. (See Butler, Briggs, and Clark, assignors.)
- Auto-Mosquito Mask Company. (See Harrison and O'Brien, assignors.)
- Auto-Ozone Company. (See Ligowsky, F. A., assignor.)
- Auto Paper Feeder Company. (See Hanau, R. L., assignor.)
- Auto Paper Feeder Company. (See Kleidmann, J., assignor.)
- Auto Safety Specialty Company. (See Carrigan and Sangster, assignors.)
- Auto Stopper Company. (See Hicks, J. A., assignor.)
- Auto Stopper Company. (See Hicks, J. M., assignor.)
- Auto Stopper Company. (See Low, A. A., assignor.)
- Autocoil Company. (See Varley, R., assignor.)
- Automatic Beam Scale Company. (See Jordan, W. H., assignor.)
- Automatic Beam Scale Company. (See McLeod, C. J., assignor.)
- Automatic Billing Company. (See Gallagher, R. W., assignor.)
- Automatic Bowling Alley Company. (See Graves, J., assignor.)
- Automatic Brake Company. (See Godfrey, A., assignor.)
- Automatic Carbonator Co. (See Mower, E. B., assignor.)
- Automatic Cashier Machine Company. (See Carney, J. D., assignor.)
- Automatic Cooker Company. (See Jennings, J., assignor.) (Reissue.)



*Alphabetical list of patentees—Continued.*

- Automatic Disinfecting Co. (See Shipp and Lund, assignors.)  
Automatic Envelope Sealing and Stamping Machine Company. (See Davis, C. F., assignor.)  
Automatic Flareback Prevention Company. (See Smith, W. D., assignor.)  
Automatic Heel Trimming and Burnishing Machine Company. (See Evans and Taylor, assignors.)  
Automatic Hotel Service Co. (See Parry, R. R., assignor.)  
Automatic Inventions Company. (See Strock, S. M., assignor.)  
Automatic Letter Machine Company. (See Smith and Woodward, assignors.)  
Automatic Marking Company. (See McCarty, W. L., assignor.)  
Automatic Musical Company. (See Hamilton and Thayer, assignors.)  
Automatic Portable Bowling Alley Company. (See Downey, R. F., assignor.)  
Automatic Racking Machine Company. (See Colby, H. W., assignor.)  
Automatic Refrigerating Company. (See Carpenter, E., assignor.)  
Automatic Refrigerating Company. (See Marshall, A. T., assignor.)  
Automatic Roll Paper Printer Manufacturing Company. (See Pine, G. V. A., assignor.)  
Automatic Safety Device Company. (See Bayless, F., assignor.)  
Automatic Scale Company. (See Ford, J. W., assignor.)  
Automatic Seal Company. (See Loshbough, A. W., assignor.)  
Automatic Service Company. (See Fulton, W. H., assignor.)  
Automatic Vacuum Pump Company. (See Sparks, J. L., assignor.)  
Automatic Vacuum Pump Company. (See Sparks and Eddins, assignors.)  
Automatic Vending Machines Company. (See Craig and Coffman, assignors.)  
Automatic Weighing Machine Company. (See Nickerson, W. E., assignor.)  
Autophone Company. (See Reinhardt, C., assignor.)  
Autopianist Co. (See Merrill, C. F., assignor.)  
Autopiano Co. (See Danquard, T., assignor.)  
Autospin Company. (See Burr, F. P., assignor.)  
Autry, J. A., Pinegrove, Miss. Fireplace-guard. No. 915,535; Mar. 16; Sp. p. 3855; Gaz. vol. 140; p. 670.  
Aveling, C. W. (See Blake and Aveling.)  
Aveling, C. W., Morgan Park, assignor to Calumet Engineering Works, Harvey, Ill. Ladle machinery. No. 910,483; Jan. 26; Sp. p. 4210; Gaz. vol. 138; p. 775.  
Averett, G. E. (See Maycock and Averett.)  
Averill, R. G. (See Phillips and Averill.)  
Avery, A. E., administratrix. (See Ammerman, W. M., assignor.)  
Avery, C. L., Avery, Tex. Plow. No. 921,578; May 11; Sp. p. 3033; Gaz. vol. 142; p. 521.  
Avery Company. (See Bartholomew, J. B., assignor.)  
Avery, H. F., assignor to Osborne Company, New York, N. Y. Calendar-pad. No. 936,848; Oct. 12; Sp. p. 2602; Gaz. vol. 147; p. 434.  
Avery, H. W., assignor to Avery Stamping Company, Cleveland, Ohio. Packing vessel. No. 926,230; June 29; Sp. p. 6608; Gaz. vol. 143; p. 1166.  
Avery, L. B., Bridgewater township, Washtenaw county, Mich. Watch-pocket for vests. No. 935,085; Sept. 28; Sp. p. 4256; Gaz. vol. 146; p. 761.  
Avery, M. D. (See Bachelder and Avery.)  
Avery, P. C., Milwaukee, Wis. Tank for storing acetylene gas. No. 933,152; Sept. 7; Sp. p. 234; Gaz. vol. 146; p. 40.  
Avery, R. (See Barnard, D., assignor.)  
Avery Stamping Company. (See Avery, H. W., assignor.)  
Avery, T. M., Ottumwa, Iowa, assignor, by mesne assignments, to Union Paper Bag Machine Company, Philadelphia, Pa. Bag-folding machine. No. 935,729; Oct. 5; Sp. p. 222; Gaz. vol. 147; p. 36.  
Avis, B. D., Jr., Wallace, W. Va. Coloration process. No. 933,522; Sept. 7; Sp. p. 1162; Gaz. vol. 146; p. 168.  
Avis, B. D., Jr., Wallace, W. Va. Electric process for making pictures. No. 940,495; Nov. 16; Sp. p. 4553; Gaz. vol. 148; p. 762.  
Avisus, L., Chicago, Ill. Piano-agraffe. (Reissue.) No. 12,938; Apr. 13; Sp. p. 3106; Gaz. vol. 141; p. 543.  
Axe, R. T., Juniata, Pa. Sash-balance. No. 915,405; Mar. 16; Sp. p. 3606; Gaz. vol. 140; p. 628.  
Axe, R. T., Juniata, Pa. Window lock and lift. No. 942,851; Dec. 7; Sp. p. 1707; Gaz. vol. 149; p. 277.  
Axford, C. S., Plainview, Nebr. Automatic air-trap for pumps. No. 925,859; June 22; Sp. p. 5818; Gaz. vol. 143; p. 1007.  
Axtell, H., Berkeley, Cal. Crown for the winding-stems of watches. No. 909,515; Jan. 12; Sp. p. 2195; Gaz. vol. 138; p. 389.  
Axtell, H. A. (See Oakman and Axtell.)  
Axtell, L., Deposit, N. Y. Machine for grinding green casein. No. 926,801; July 6; Sp. p. 193; Gaz. vol. 144; p. 32.  
Ayars, C. H., assignor to Ayars Machine Company, Salem, N. J. Can-filling machine. No. 944,354; Dec. 28; Sp. p. 4972; Gaz. vol. 149; p. 877.  
Ayars Machine Company. (See Ayars, C. H., assignor.)  
Ayer, A. E., Chelsea, assignor to R. L. Vose, Brookline, Mass. Grinding-machine. No. 910,984; Jan. 26; Sp. p. 5190; Gaz. vol. 138; p. 936.  
Ayer, A. E., Chelsea, and A. S. Vose, assignors to R. L. Vose, Brookline, Mass. Grinding-machine. No. 908,639; Jan. 5; Sp. p. 440; Gaz. vol. 138; p. 71.  
Ayer, G. A. (See McDewitt and Walton, assignors.)  
Ayer, W. H., Claremont, N. H. Picking-motion for looms. No. 941,844; Nov. 30; Sp. p. 7486; Gaz. vol. 148; p. 1258.  
Ayers, A., Barborton, Ohio. Windmill. No. 934,650; Sept. 21; Sp. p. 3384; Gaz. vol. 146; p. 589.  
Ayers, A. F., Seattle, Wash. Baby-jumper. No. 921,057; May 11; Sp. p. 1953; Gaz. vol. 142; p. 347.  
Ayers, H. B., Pittsburg, Pa. Forming openings for washout-plugs for boilers. No. 927,473; July 13; Sp. p. 1580; Gaz. vol. 144; p. 284.  
Ayers, W. H., and C. A. Dorr, Lyndhurst, N. J. Trimming-knife. No. 940,420; Nov. 16; Sp. p. 4405; Gaz. vol. 148; p. 736.  
Aylett, P., and J. S. Banks, Portsmouth, Va. Concrete beam. No. 918,643; Apr. 20; Sp. p. 3485; Gaz. vol. 141; p. 623.  
Aylsworth, J. W., East Orange, N. J., assignor to Fireproof Products Company. Fireproof material. No. 914,222; Mar. 2; Sp. p. 1204; Gaz. vol. 140; p. 189.  
Aylsworth, J. W., East Orange, N. J., assignor to Fireproof Products Company. Chlorinated compound and making same. No. 914,223; Mar. 2; Sp. p. 1205; Gaz. vol. 140; p. 189.  
Aylsworth, J. W., East Orange, N. J., assignor to Fireproof Products Company. Apparatus for utilizing chlorin. No. 914,224; Mar. 2; Sp. p. 1210; Gaz. vol. 140; p. 189.  
Aylsworth, J. W., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-record composition. No. 920,245; May 4; Sp. p. 323; Gaz. vol. 142; p. 50.  
Aylsworth, J. W., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Sound-record mold. No. 932,237; Aug. 24; Sp. p. 5541; Gaz. vol. 145; p. 944.  
Aylsworth, J. W., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Apparatus for making duplicate phonograph-records. No. 936,275; Oct. 5; Sp. p. 1386; Gaz. vol. 147; p. 214.  
Aylsworth, J. W., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Apparatus for making duplicate phonograph-records. No. 940,631; Nov. 16; Sp. p. 4343; Gaz. vol. 148; p. 806.  
Aylsworth, J. W., East Orange, assignor to New Jersey Patent Company, West Orange, N. J. Sound-record composition. No. 944,474; Dec. 28; Sp. p. 5243; Gaz. vol. 149; p. 918.  
Aylsworth, J. W., East Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Making active material for storage-battery electrodes. No. 938,451; Oct. 26; Sp. p. 5999; Gaz. vol. 147; p. 1017.  
Ayrault, J., Tonawanda, N. Y. Ready-roofing fabric. No. 925,263; June 15; Sp. p. 4585; Gaz. vol. 143; p. 784.  
Ayres, G., Athens, Ohio. Window-screen. No. 916,253; Mar. 23; Sp. p. 5277; Gaz. vol. 140; p. 933.  
Ayres, O. O., assignor to Oscar Ayres & Co., Olathe, Kans. Mail-bag catcher. No. 915,652; Mar. 16; Sp. p. 4122; Gaz. vol. 140; p. 713.  
Ayrey, W. (See Haworth, Briggs, and Ayrey.)  
Ayvad, H. A., Hoboken, N. J. Book-cover protector. No. 912,775; Feb. 16; Sp. p. 3674; Gaz. vol. 139; p. 646.  
Azzara, V., Morristown, N. J. Refuse-receptacle. No. 934,262; Sept. 14; Sp. p. 2624; Gaz. vol. 146; p. 434.  
B. Roth Tool Company. (See Brooks, C. E., assignor.)  
B. A. Ballou & Company. (See Morehouse, E. W., assignor.)  
B. A. Berger Manufacturing Company. (See Berger, B. A., assignor.)  
B. B. Hill Manufacturing Company. (See Hill, B. B., assignor.)  
B. F. Avery & Sons. (See Clark, C. B., assignor.)  
B. F. Biggs Pump Company. (See Shook, R. H., assignor.)  
B. F. Goodrich Company. (See Gammeter, J. R., assignor.)  
B. F. Goodrich Company. (See Raymond, H. K., assignor.)  
B. F. Goodrich Company. (See Shaw, E. C., assignor.)  
B. F. Luke Co. (See Luke, B. F., assignor.)

*Alphabetical list of patentees—Continued.*

- B. F. Perkins and Son. (See Perkins, J. L., assignor.)  
 B. F. Perkins and Son. (See Putnam, C. W., assignor.)  
 B. V. D. Company. (See Erlanger, M. S., assignor.)  
 Baase, H. C., Indianapolis, Ind., assignor to Universal Automatic Carving Machine Co., Chicago, Ill. Work-holder for carving-machines. No. 921,058; May 11; Sp. p. 1954; Gaz. vol. 142; p. 347.  
 Babbitt, J. W., Elwood, Ind. Foldable umbrella. No. 929,536; July 27; Sp. p. 5846; Gaz. vol. 144; p. 1027.  
 Babcock, C. D., New York, N. Y. Static condenser. No. 918,257; Apr. 13; Sp. p. 2643; Gaz. vol. 141; p. 468.  
 Babcock, C. D., New York, N. Y. Antenna for wireless-telegraph systems. No. 919,115; Apr. 20; Sp. p. 4457; Gaz. vol. 141; p. 778.  
 Babcock, C. D., New York, N. Y. Current indicator or detector. No. 927,314; July 6; Sp. p. 1242; Gaz. vol. 144; p. 204.  
 Babcock, C. D., New York, N. Y., assignor to United Wireless Telegraph Company. Hertzman-wave meter. No. 918,256; Apr. 13; Sp. p. 2641; Gaz. vol. 141; p. 468.  
 Babcock, C. D., assignor to United Wireless Telegraph Co., New York, N. Y. Thermo-expansion meter. No. 926,536; June 29; Sp. p. 7159; Gaz. vol. 143; p. 1264.  
 Babcock, C. D., assignor, by mesne assignments, to United Wireless Telegraph Company, New York, N. Y. Wireless communication. No. 929,745; Aug. 3; Sp. p. 233; Gaz. vol. 145; p. 41.  
 Babcock, C. D., New York, N. Y., assignor to United Wireless Telegraph Company. Wireless-telegraph transmitter. No. 934,875; Sept. 21; Sp. p. 3815; Gaz. vol. 146; p. 662.  
 Babcock, C. D., assignor to United Wireless Telegraph Company, New York, N. Y. Telephone-transmitter. No. 936,207; Oct. 5; Sp. p. 1261; Gaz. vol. 147; p. 191.  
 Babcock, E. E., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Driving mechanism for printing-presses. No. 944,068; Dec. 21; Sp. p. 4374; Gaz. vol. 149; p. 754.  
 Babcock, G., Rochester, N. Y. Telephone-exchange system. No. 913,451; Feb. 23; Sp. p. 5002; Gaz. vol. 139; p. 894.  
 Babcock, G., assignor to M. E. Lewis, Rochester, N. Y. Alarm and telephone system. No. 911,565; Feb. 9; Sp. p. 1050; Gaz. vol. 139; p. 206.  
 Babcock, G. E., Fort Plain, N. Y. Yarn-changer for knitting-machines. No. 916,966; Apr. 6; Sp. p. 9; Gaz. vol. 141; p. 5.  
 Babcock, S., Owassa, Iowa. Storage-cabinet for seed-corn. No. 931,669; Aug. 17; Sp. p. 4289; Gaz. vol. 145; p. 733.  
 Babcock, W. G., New York, assignor to F. W. Hillard, Tottenville, N. Y. Type-writer. No. 934,786; Sept. 21; Sp. p. 3631; Gaz. vol. 146; p. 633.  
 Babcock, W. I., New York, N. Y. Fire-boat. No. 924,128; June 8; Sp. p. 2213; Gaz. vol. 143; p. 369.  
 Babcock & Wilcox Company. (See Bell, J. E., assignor.)  
 Babcock & Wilcox Company. (See Sewall, M. W., assignor.)  
 Babcock & Wilcox Company. (See Sneddon, J. P., assignor.)  
 Babcock & Wilcox Company. (See Wells, E. H., assignor.)  
 Babin, E., Hohen Solms, La. Car-replacer. No. 909,516; Jan. 12; Sp. p. 2197; Gaz. vol. 138; p. 390.  
 Babler, R. (See Bricker, E. J., assignor.)  
 Babst, J., assignor to William Schimper & Company, Hoboken, N. J. Toilet article. No. 925,675; June 22; Sp. p. 5394; Gaz. vol. 143; p. 944.  
 Babst, J. C. (See Fisch and Babst.)  
 Baehus, T. W., Woodbury, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Machine for packing gelatin dynamite. No. 929,815; Aug. 3; Sp. p. 397; Gaz. vol. 145; p. 66.  
 Bache, M., et al. (See Grazioli, P., assignor.)  
 Bache-Wüg, C., Berlin, N. H. Wood-pulp and making same. No. 913,679; Mar. 2; Sp. p. 4; Gaz. vol. 140; p. 3.  
 Bachelder, H. W., Schenectady, N. Y. Hoisting apparatus. No. 939,955; Nov. 9; Sp. p. 3309; Gaz. vol. 148; p. 546.  
 Bachelder, W. M., and M. D. Avery, Toledo, Ohio. Gas-burner. No. 930,523; Aug. 10; Sp. p. 1861; Gaz. vol. 145; p. 328.  
 Bachman, H. M. (See Van Houten and Bachman.)  
 Bachman, J. S. (See McLin and Bachman.)  
 Bachman, V., Indianapolis, Ind. Shuttle-thrower. No. 921,658; May 18; Sp. p. 3232; Gaz. vol. 142; p. 576.  
 Bachman, W. S., assignor to C. L. Stryker, Williamsport, Pa. Cuff-holder. No. 939,464; Nov. 9; Sp. p. 2266; Gaz. vol. 148; p. 375.  
 Bachmann, S., Chicago, Ill. Box. No. 931,373; Aug. 17; Sp. p. 3707; Gaz. vol. 145; p. 640.  
 Bachmann, S., Chicago, Ill. Box. No. 935,349; Sept. 28; Sp. p. 4737; Gaz. vol. 146; p. 846.  
 Bacho, F. W., and P. E. Draughon, Mobile, Ala. Center-punches, nail-sets, &c. No. 925,978; June 22; Sp. p. 6047; Gaz. vol. 143; p. 1045.  
 Bachrach, E. S., assignor to Oppenheimer, Franc and Langsdorf, New York, N. Y. Tag for neckwear and the like. No. 912,225; Feb. 9; Sp. p. 2425; Gaz. vol. 139; p. 419.  
 Bachrach, M., New York, N. Y. Faucet. No. 932,747; Aug. 31; Sp. p. 6597; Gaz. vol. 145; p. 1137.  
 Bachtel, W. H., Canton, Ohio. Tire. No. 931,716; Aug. 24; Sp. p. 4433; Gaz. vol. 145; p. 772.  
 Bachtel, W. H., Canton, Ohio. Cushioned wheel. No. 931,717; Aug. 24; Sp. p. 4435; Gaz. vol. 145; p. 772.  
 Bachwitz, L. (See Remsen and Bachwitz.)  
 Bachwitz, M., administratrix. (See Remsen and Bachwitz.)  
 Bagialupi, G. N., et al. (See Knapp, W. D., assignor.)  
 Bagk, J. R., and J. Metcalfe, assignors to F. E. Reed Co., Worcester, Mass. Speed-change gearing for lathes. No. 916,525; Mar. 30; Sp. p. 5849; Gaz. vol. 140; p. 1049.  
 Bagké, T. A., New York, assignor of one-half to E. A. Parker, Brooklyn, N. Y. Circuit-closer for automobiles. No. 916,649; Mar. 30; Sp. p. 6080; Gaz. vol. 140; p. 1080.  
 Backlund, J. V., Lisbon, N. D. Trousers-support. No. 942,126; Dec. 7; Sp. p. 214; Gaz. vol. 149; p. 32.  
 Backman, E. S., Malden, assignor to Stanley Liquid Soap Company, Boston, Mass. Liquid-server. No. 931,984; Aug. 24; Sp. p. 5020; Gaz. vol. 145; p. 859.  
 Backmann, C. E., Youngstown, Ohio. Hose-making machine. No. 914,225; Mar. 2; Sp. p. 1215; Gaz. vol. 140; p. 190.  
 Backmann, C. R., Youngstown, Ohio. Vulcanizer-carrier. No. 926,637; June 29; Sp. p. 7353; Gaz. vol. 143; p. 1297.  
 Backscheider, F. J., Cincinnati, Ohio. Portable electrical tool. No. 908,726; Jan. 5; Sp. p. 633; Gaz. vol. 138; p. 98.  
 Backstrom, H., Louisville, Ky. Handle for book-straps. No. 908,458; Jan. 5; Sp. p. 7; Gaz. vol. 138; p. 3.  
 Backstrom, M., assignor to Canedy-Otto Manufacturing Company, Chicago Heights, Ill. Ball-bearing. No. 935,452; Sept. 28; Sp. p. 4973; Gaz. vol. 146; p. 879.  
 Backus, B. M., Los Angeles, Cal. Individual-account file. No. 921,340; May 11; Sp. p. 2571; Gaz. vol. 142; p. 444.  
 Backus, C. G., assignor to Zucker & Levett & Loeb Company, New York, N. Y. Electroplating apparatus. No. 908,439; Jan. 5; Sp. p. 8; Gaz. vol. 138; p. 4.  
 Backus, H. N., Detroit, Mich. Shipping-crate. No. 939,582; Nov. 9; Sp. p. 2510; Gaz. vol. 148; p. 415.  
 Backus, J. C., assignor to Backus Novelty Co., Smethport, Pa. Lock for umbrella-holders. No. 913,188; Feb. 23; Sp. p. 4466; Gaz. vol. 139; p. 805.  
 Backus, J. C., assignor to Backus Novelty Co., Smethport, Pa. Lock and check hook. No. 920,105; May 4; Sp. p. 4; Gaz. vol. 142; p. 3.  
 Backus Novelty Co. (See Backus, J. C., assignor.)  
 Bacon, C. H., Paulsboro, N. J. Device for operating flushing-valves. No. 909,517; Jan. 12; Sp. p. 2198; Gaz. vol. 138; p. 390.  
 Bacon, G. (See Bacon, M. L. and G.)  
 Bacon, G. W., Cannon Falls, Minn. Bedclothes-clamp. No. 932,748; Aug. 31; Sp. p. 6599; Gaz. vol. 145; p. 1138.  
 Bacon, H. A., Branchville, Md. Adjustable riser for spring bed-bottoms. No. 924,217; June 8; Sp. p. 2466; Gaz. vol. 143; p. 401.  
 Bacon, M. E., and L. J. Meller, Deerfield, Kans. Electric brush. No. 936,208; Oct. 5; Sp. p. 1263; Gaz. vol. 147; p. 192.  
 Bacon, M. L. and G., Antigo, Wis. Ironing-board. No. 935,184; Sept. 28; Sp. p. 4445; Gaz. vol. 146; p. 792.  
 Bacon, T. (See Auger, J., assignor.)  
 Bacon, T. L., Denver, Colo. Adjustable stand. No. 935,730; Oct. 5; Sp. p. 225; Gaz. vol. 147; p. 36.  
 Bacot, B. L., McComb, Miss. Roofing-tile. No. 912,353; Feb. 16; Sp. p. 2750; Gaz. vol. 139; p. 501.  
 Bacot, D. N., and D. D. Arden, Statesboro, Ga.; said Bacot assignor to said Arden. Safety air-brake appliance for railway-cars. No. 912,932; Feb. 16; Sp. p. 3940; Gaz. vol. 139; p. 693.  
 Badano, F., et al. (See Tavella, F., assignor.)  
 Baddley, H. O., Salt Lake City, Utah. Fire-lighter. No. 923,315; June 1; Sp. p. 482; Gaz. vol. 143; p. 68.  
 Baddock, J. W., Lynn, Mass. Boot-heel and protector therefor. No. 922,555; May 25; Sp. p. 5062; Gaz. vol. 142; p. 899.  
 Bade, E., assignor of one-half to A. Puervermacher, New York, N. Y. Flower-pot. No. 909,843; Jan. 12; Sp. p. 2829; Gaz. vol. 138; p. 499.  
 Bade, F. (See Born, W. G., assignor.)  
 Badeau, C. C. (See Robinson and Badeau.)  
 Badeau, H. U., and F. P. Poole, assignors to Bryant Electric Company, Bridgeport, Conn. Plug-fuse. No. 920,005; Apr. 27; Sp. p. 6501; Gaz. vol. 14; p. 1110.  
 Badeker, J., assignor to Standard Metallic Packing Co., Omaha, Nebr. Metallic rod-packing. No. 920,006; Apr. 27; Sp. p. 6503; Gaz. vol. 141; p. 1110.  
 Bader, C., Chicago, Ill. Closure for preserving-jars. No. 910,347; Jan. 19; Sp. p. 3917; Gaz. vol. 138; p. 704.



*Alphabetical list of patentees—Continued.*

- Badge, F. J., Brooklyn, N. Y., and C. L. Carle, Horley, Surrey, England. Oilstone-holder. No. 935,350; Sept. 28; Sp. p. 4791; Gaz. vol. 146; p. 847.
- Badger, A. C., Newton, Mass. Fire-extinguisher. No. 924,218; June 8; Sp. p. 2470; Gaz. vol. 143; p. 401.
- Badger Brass Mfg. Co. (See Harbaugh, H. E., assignor.)
- Badger Brass Mfg. Co. (See Welles, R. H., assignor.)
- Badger, E. J. (See Badger, L. W. and E. J.)
- Badger, G. L., Quincy, Mass. Pneumatic surfacing-machine. No. 940,297; Nov. 16; Sp. p. 4096; Gaz. vol. 148; p. 694.
- Badger, G. M., Quitman, Ga. Wheel. No. 923,001; May 25; Sp. p. 5977; Gaz. vol. 142; p. 1042.
- Badger, L. W. and E. J., Bellefontaine, Ohio. Electromagnetic pulsator for milking-machines. No. 934,263; Sept. 14; Sp. p. 2626; Gaz. vol. 146; p. 435.
- Badger, O. W., New York, N. Y. Progressing hobby-horse. No. 930,265; Aug. 3 Sp. p. 1305; Gaz. vol. 145; p. 216.
- Badische Anilin & Soda Fabrik. (See Bosch, K., assignor.)
- Badische Anilin & Soda Fabrik. (See Bosch and Mittasch, assignors.)
- Badische Anilin & Soda Fabrik. (See Fourneau, E. A., assignor.)
- Badische Anilin & Soda Fabrik. (See Fussenegger, E., assignor.)
- Badische Anilin und Soda Fabrik. (See Haas, L., assignor.)
- Badische Anilin & Soda Fabrik. (See Haber and Koenig, assignors.)
- Badische Anilin & Soda Fabrik. (See Immerheiser, C., assignor.)
- Badische Anilin & Soda Fabrik. (See Isler, M., assignor.)
- Badische Anilin & Soda Fabrik. (See Isler, M. H., assignor.)
- Badische Anilin & Soda Fabrik. (See Isler, Lüttringhaus, and Diesbach, assignors.)
- Badische Anilin & Soda Fabrik. (See Isler, Wolff, and Kacer, assignors.)
- Badische Anilin & Soda Fabrik. (See Julius and Blangey, assignors.)
- Badische Anilin & Soda Fabrik. (See Julius and Fussenegger, assignors.)
- Badische Anilin & Soda Fabrik. (See Julius, Fussenegger, and Blangey, assignors.)
- Badische Anilin & Soda Fabrik. (See Kacer, F., assignor.)
- Badische Anilin & Soda Fabrik. (See Münch, E., assignor.)
- Badische Anilin & Soda Fabrik. (See Schmidt, O., assignor.)
- Badische Anilin & Soda Fabrik. (See Schönherr and Hessberger, assignors.)
- Badische Anilin & Soda Fabrik. (See Schraube and Laudien, assignors.)
- Badische Anilin & Soda Fabrik. (See Wimmer, R., assignor.)
- Badische Maschinenfabrik & Eisengiesserei vorm. G. Sebold und Sebold & Neff. (See Nyberg, C. S., assignor.)
- Badische Maschinenfabrik & Eisengiesserei vormals G. Sebold und Sebold & Neff. (See Landvatter, O. H., assignor.)
- Badois, L., Paris, France. Automatic change-speed gearing. No. 918,258; Apr. 13; Sp. p. 2645; Gaz. vol. 141; p. 469.
- Baechele, N. W., Cincinnati, Ohio. Friction-clutch. No. 932,668; Aug. 31; Sp. p. 6445; Gaz. vol. 145; p. 1111.
- Baeder, C. W., Memphis, Tenn. Trimmer for stereotypes. No. 941,549; Nov. 30; Sp. p. 6835; Gaz. vol. 148; p. 1157.
- Baeder, C. W., Memphis, Tenn. Spring-wheel. No. 941,550; Nov. 30; Sp. p. 6836; Gaz. vol. 148; p. 1157.
- Baeder, G. A., and G. Lude, Pittsburg, Pa. Combination condiment and toothpick holder. No. 918,115; Apr. 13; Sp. p. 2352; Gaz. vol. 141; p. 421.
- Baehr, H., and A. Sommerfeld, New York, N. Y. Artificial paw. No. 924,875; June 15; Sp. p. 3829; Gaz. vol. 143; p. 654.
- Baekeland, L. H., Yonkers, N. Y. Molding articles. No. 939,966; Nov. 16; Sp. p. 3339; Gaz. vol. 148; p. 578.
- Baekeland, L. H., Yonkers, N. Y. Packing material. No. 941,605; Nov. 30; Sp. p. 6944; Gaz. vol. 148; p. 1175.
- Baekeland, L. H., Yonkers, N. Y. Making insoluble products of phenol and formaldehyde. No. 942,699; Dec. 7; Sp. p. 1377; Gaz. vol. 149; p. 226.
- Baekeland, L. H., Yonkers, N. Y. Condensation product of phenol and formaldehyde and making the same. No. 942,700; Dec. 7; Sp. p. 1379; Gaz. vol. 149; p. 226.
- Baekeland, L. H., Yonkers, N. Y. Abrasive composition and making same. No. 942,808; Dec. 7; Sp. p. 1592; Gaz. vol. 149; p. 262.
- Baekeland, L. H., Yonkers, N. Y. Condensation product and making same. No. 942,809; Dec. 7; Sp. p. 1594; Gaz. vol. 149; p. 262.
- Baekeland, L. H., Yonkers, N. Y. Indurated product and preparing same. No. 942,852; Dec. 7; Sp. p. 1709; Gaz. vol. 149; p. 277.
- Baer, G. P., *et al.* (See Greenberg, M., assignor.)
- Baerbalck, H., assignor to Hamilton Machine Tool Company, Hamilton, Ohio. Metal-planer. No. 923,930; June 8; Sp. p. 1839; Gaz. vol. 143; p. 307.
- Baermann, J. B., *et al.* (See Shepard, H. W., assignor.)
- Bauerle, J. A., assignor of one-half to O. A. La Crone, Kalamazoo, Mich. Seal. No. 931,670; Aug. 17; Sp. p. 4291; Gaz. vol. 145; p. 733.
- Bauerle, Firm of M. (See Bauerle, T., assignor.)
- Bauerle, T., assignor to Firm of M. Bauerle, St. Georgen, Black Forest, Germany. Calculating-machine. No. 944,762; Dec. 28; Sp. p. 5899; Gaz. vol. 149; p. 1017.
- Baeyeretz, J. T. F., Los Angeles, Cal. Stamp-sticker and envelop-sealer. No. 921,059; May 11; Sp. p. 1956; Gaz. vol. 142; p. 347.
- Bagaason, H., Hayward, Minn. Supporting device. No. 926,840; July 6; Sp. p. 279; Gaz. vol. 144; p. 45.
- Bagby, E. A., Louisville, Ky. Combined leaf-clip and line-marker. No. 919,806; Apr. 27; Sp. p. 6076; Gaz. vol. 141; p. 1045.
- Bagg, M. L. (See Bagg, S. F., assignor.)
- Bagg, S. F., assignor to M. L. Bagg, Lexington, Mass. Pin. No. 911,193; Feb. 2; Sp. p. 334; Gaz. vol. 139; p. 59.
- Bagger, W., *et al.* (See Baird, A. S., assignor.)
- Baggett, N. J., Cisco, Tex. Cotton-picking glove. No. 922,237; May 18; Sp. p. 4412; Gaz. vol. 142; p. 766.
- Bagley, E. N., Pittsburg, Kans. Shipping-case. No. 926,537; June 29; Sp. p. 7161; Gaz. vol. 143; p. 1265.
- Bagley, J., *et al.* (See Santsche, E., assignor.)
- Bagnall, J., North Attleboro, Mass. Expandible bracelet. No. 926,089; June 29; Sp. p. 6290; Gaz. vol. 143; p. 1117.
- Bagula, O., St. Louis, Mo. Culinary utensil. No. 932,943; Aug. 31; Sp. p. 6986; Gaz. vol. 145; p. 1200.
- Bagwell, W., Chase City, Va. Exit fly-screen. No. 929,816; Aug. 3; Sp. p. 402; Gaz. vol. 145; p. 66.
- Baham, T., and S. Carr, assignors of one-third to J. M. Wall, Independence, La. Automatic switch-thrower. No. 915,709; Mar. 16; Sp. p. 4243; Gaz. vol. 140; p. 731.
- Bahr, J. C., St. Louis, Mo. Head-rest. No. 911,933; Feb. 9; Sp. p. 1776; Gaz. vol. 139; p. 327.
- Baier, C. D. (See Baier, G. W. and C. D.)
- Baier, G. W. and C. D., Cissna Park, Ill. Grain-spout for portable elevators. No. 943,214; Dec. 14; Sp. p. 2542; Gaz. vol. 149; p. 431.
- Baigtel, G. D., Toledo, Ohio. Combined siding marker and gage. No. 913,871; Mar. 2; Sp. p. 430; Gaz. vol. 140; p. 70.
- Bailer, M., Chicago, Ill. Adjustable scaffold and derrick. No. 923,002; May 25; Sp. p. 5978; Gaz. vol. 142; p. 1043.
- Bailey, A. L., St. Johnsbury, Vt., and E. P. Brownell, Pawtucket, R. I. Heater. No. 915,262; Mar. 16; Sp. p. 3324; Gaz. vol. 140; p. 581.
- Bailey, C. C., assignor to Perforated Pad Company, Woonsocket, R. I. Bridle-rosette. No. 927,925; July 13; Sp. p. 2560; Gaz. vol. 144; p. 435.
- Bailey, C. F., *et al.* (See Hubmann, J., assignor.)
- Bailey, D. M., assignor of one-fourth to J. F. Thompson and one-fourth to W. A. Harper, Wellington, Kans. Cotton-picker. No. 935,185; Sept. 28; Sp. p. 4446; Gaz. vol. 146; p. 792.
- Bailey, D. S., Rantoul, Ill. Car-door. No. 936,209; Oct. 5; Sp. p. 1263; Gaz. vol. 147; p. 192.
- Bailey, E. L. (See Bailey, H. C., assignor.)
- Bailey, E. R. (See Ganiard and Bailey.)
- Bailey, E. R., and M. A. Ganiard, Clarinda, Iowa. Cream-separator. No. 916,254; Mar. 23; Sp. p. 5278; Gaz. vol. 140; p. 934.
- Bailey, E. R., and M. A. Ganiard, Clarinda, Iowa. Cream-separator-bowl liner. No. 929,372; July 27; Sp. p. 5570; Gaz. vol. 144; p. 976.
- Bailey, E. R., and M. A. Ganiard, Clarinda, Iowa. Cream-separator. No. 934,706; Sept. 21; Sp. p. 5545; Gaz. vol. 148; p. 607.
- Bailey, E. W. M., Amesbury, Mass. Driving-mechanism support for automobiles. No. 913,250; Feb. 23; Sp. p. 4601; Gaz. vol. 139; p. 825.
- Bailey, F., Muskegon, Mich. Awning-fixture. No. 911,535; Feb. 2; Sp. p. 975; Gaz. vol. 139; p. 170.
- Bailey, F., and F. H. Jackson, Bankside, London, England. Apparatus for straining liquids. No. 943,908; Dec. 21; Sp. p. 4036; Gaz. vol. 149; p. 699.
- Bailey, F. C., *et al.* (See Milton, J. F., assignor.)
- Bailey, F. C., assignor of one-half to E. C. Getchel, Rib Lake, Wis. Car-mover. No. 944,763; Dec. 28; Sp. p. 5901; Gaz. vol. 149; p. 1017.
- Bailey, F. W. C., Knoxville, Tenn. Truck. No. 925,795; June 22; Sp. p. 5684; Gaz. vol. 143; p. 985.
- Bailey, G. E., assignor of one-half to A. Stevenson, Los Angeles, Cal. Making borax. No. 911,695; Feb. 9; Sp. p. 1341; Gaz. vol. 139; p. 250.
- Bailey, G. H., Pittsburg, Pa. Tank for water-closets, &c. No. 940,951; Nov. 23; Sp. p. 5542; Gaz. vol. 148; p. 938.
- Bailey, G. H., Pittsburg, Pa. Tank for water-closets, &c. No. 940,952; Nov. 23; Sp. p. 5545; Gaz. vol. 148; p. 939.
- Bailey, G. H., Pittsburg, Pa. Tank for water-closets, &c. No. 944,764; Dec. 28; Sp. p. 5902; Gaz. vol. 149; p. 1017.
- Bailey, H. A., Newton, Mass. Christmas-tree holder. No. 934,424; Sept. 21; Sp. p. 2940; Gaz. vol. 146; p. 513.
- Bailey, H. C., assignor to E. L. Bailey, Philadelphia, Pa. Starting device for explosion-engines. No. 920,411; May 4; Sp. p. 651; Gaz. vol. 142; p. 104.

*Alphabetical list of patentees—Continued.*

- Bailey, H. L., assignor to Handy Things Company, Ludington, Mich. Window-cleaner. No. 911,194; Feb. 2; Sp. p. 335; Gaz. vol. 139; p. 59.
- Bailey, H. R., and J. E. McFarren, Massillon, Ohio. Boiler. No. 937,572; Oct. 19; Sp. p. 4123; Gaz. vol. 147; p. 702.
- Bailey, I. S. (See Simmons, C. B., assignor.)
- Bailey, J. F. (See Brettell and Bailey.)
- Bailey, J. J., *et al.* (See King, L. W., assignor.)
- Bailey, J. R., *et al.* (See Hachmann, F., assignor.)
- Bailey, J. R., Akron, Ohio. Wrench. No. 914,629; Mar. 9; Sp. p. 2044; Gaz. vol. 140; p. 348.
- Bailey, L. E. (See Bernstein and Bailey.)
- Bailey, L. E., Haskell, Tex. Carpenter's square. No. 937,202; Oct. 19; Sp. p. 3329; Gaz. vol. 147; p. 579.
- Bailey, M. M., Springfield, Ohio. Vehicle-wheel. No. 912,438; Feb. 16; Sp. p. 2918; Gaz. vol. 139; p. 523.
- Bailey, P. T., Middletown, R. I. Anchoring-base for posts. No. 919,807; Apr. 27; Sp. p. 6078; Gaz. vol. 141; p. 1045.
- Bailey, R., assignor of one-half to F. S. Mautz, Marion, Ind. Pool-table. No. 934,380; Sept. 14; Sp. p. 2844; Gaz. vol. 146; p. 475.
- Bailey, R. A., and C. C. Hildebrand, New Castle, Pa. Furnace. No. 914,226; Mar. 2; Sp. p. 1219; Gaz. vol. 140; p. 190.
- Bailey, R. W., Hudson, Mass., assignor of one-half to W. H. Sawyer, Lewiston, Me. Adjustable reamer. No. 942,533; Dec. 7; Sp. p. 1058; Gaz. vol. 149; p. 171.
- Bailey, S. D., Wanatah, Ind. Grain-treating apparatus. No. 908,831; Jan. 5; Sp. p. 836; Gaz. vol. 138; p. 131.
- Bailey, S. P., *et al.* (See Keith, G. P., assignor.)
- Bailey, W. G., Dublin, Ireland. Machine for making concrete blocks for buildings. No. 921,659; May 18; Sp. p. 3235; Gaz. vol. 142; p. 576.
- Bailey, W. J. (See Hessom, B. F., Jr., assignor.)
- Bailey, W. J., East Orange, N. J. Link mesh. No. 933,411; Sept. 7; Sp. p. 845; Gaz. vol. 146; p. 132.
- Bailey, W. J., Aspinwall, Pa. Sign. No. 934,351; Sept. 14; Sp. p. 2846; Gaz. vol. 146; p. 475.
- Bailey, W. N., Pullman, Ill. Dust-guard. No. 929,373; July 27; Sp. p. 5572; Gaz. vol. 144; p. 977.
- Bailey, W. O., London, England. Glass-beveling machine or apparatus. No. 937,912; Oct. 26; Sp. p. 4821; Gaz. vol. 147; p. 833.
- Bailey, W. T., Elmira, N. Y., assignor to Carter Crume Company, Limited, Toronto, Canada. Paper-delivery mechanism. No. 908,832; Jan. 5; Sp. p. 839; Gaz. vol. 138; p. 131.
- Bailiff, M. A., assignor of one-fourth to R. I. Blakeslee, Los Angeles, Cal. Colander. No. 933,949; Sept. 14; Sp. p. 2007; Gaz. vol. 146; p. 331.
- Baily, R. C., Gibson City, Ill. Combined filter and strainer for coffee-pots. No. 915,324; Mar. 16; Sp. p. 3447; Gaz. vol. 140; p. 601.
- Bailly, T. F., Alliance, Ohio. Electric furnace. No. 933,815; Sept. 14; Sp. p. 1738; Gaz. vol. 146; p. 288.
- Bailly, T. F., assignor of one-half to Transue & Williams Company, Alliance, Ohio. Electric power-hammer. No. 930,022; Aug. 3; Sp. p. 840; Gaz. vol. 145; p. 136.
- Bain, F., Chicago, Ill. Automatic fire-alarm system. No. 921,660; May 18; Sp. p. 3238; Gaz. vol. 142; p. 576.
- Bain, J. E., and B. W. Smith, Montpelier, assignors to National Water Softener Company, Muncie, Ind. Water-softener. No. 933,047; Sept. 7; Sp. p. 6; Gaz. vol. 146; p. 4.
- Bain, R. C., Chicago, Ill. Folding leg for trunks. No. 940,421; Nov. 16; Sp. p. 4406; Gaz. vol. 148; p. 737.
- Baines, E. L. (See Baines, T., Sr., and E. L.)
- Baines, J. E., *et al.* (See Anderson, J. B., assignor.)
- Baines, T., Sr., and E. L., Philadelphia, Pa.; said E. L. Baines assignor to said T. Baines, Sr. Machine for filling bottles or other receptacles. No. 915,725; Mar. 23; Sp. p. 4296; Gaz. vol. 140; p. 764.
- Bainter, D. A., and J. J. Berling, Decatur, Ind. Device for picking chickens. No. 908,933; Jan. 5; Sp. p. 1029; Gaz. vol. 138; p. 165.
- Bair, G. R., Belvue, Kans. Cross-line buckle. No. 923,316; June 1; Sp. p. 484; Gaz. vol. 143; p. 69.
- Baird, A., Jr. (See Baird, A., Sr., assignor.)
- Baird, A., Sr., assignor of one-half to A. Baird, Jr., Greensburg, Pa. Pump. No. 936,076; Oct. 5; Sp. p. 1012; Gaz. vol. 147; p. 153.
- Baird, A. S., assignor of one-third to W. Bagger, Washington, D. C., and one-third to J. W. Lawhead, Falls Church, Va. Device for cutting crooked screw-threads. No. 921,501; May 11; Sp. p. 2889; Gaz. vol. 142; p. 497.
- Baird, C. M. C., Evanston, Ill. Hose construction. No. 935,086; Sept. 28; Sp. p. 4256; Gaz. vol. 146; p. 761.
- Baird, C. W., Deep River, Iowa. Hay-rack. No. 927,019; July 6; Sp. p. 652; Gaz. vol. 144; p. 106.
- Baird Company. (See Steuer, F. W., assignor.)
- Baird, G. E., Chicago, Ill. Score-board. No. 911,363; Feb. 2; Sp. p. 667; Gaz. vol. 139; p. 114.
- Baird, J. A., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ventilating-plate and spacing-block for electric apparatus. No. 933,737; Sept. 14; Sp. p. 1603; Gaz. vol. 146; p. 263.
- Baird, J. P., Detroit, Mich. Hose-coupling. No. 928,237; July 20; Sp. p. 3191; Gaz. vol. 144; p. 569.
- Baird, N. H., Elizabeth, Colo. Printing-frame. No. 912,524; Feb. 16; Sp. p. 3107; Gaz. vol. 139; p. 558.
- Baird, R. P., Berry, Ky. Vehicle-brake. No. 921,788; May 18; Sp. p. 3489; Gaz. vol. 142; p. 620.
- Baird, S. D., Prairieton, Ind. Adjustable window-shade fixture. No. 915,151; Mar. 16; Sp. p. 3107; Gaz. vol. 140; p. 545.
- Baird, T. W., *et al.* (See Dettelbach and Powell, assignors.)
- Baird, W., *et al.* (See Gross, C. C. and M. K., assignors.)
- Bajde, J., near Laibach, Austria-Hungary, assignor to Firm of L. Hupfeld Aktiengesellschaft, Leipzig, Germany. Piano-violin. No. 939,786; Nov. 9; Sp. p. 2951; Gaz. vol. 148; p. 486.
- Bajon, E. M., Paris, France. Liquid-tight dosing device. No. 941,905; Nov. 30; Sp. p. 7602; Gaz. vol. 148; p. 1280.
- Baka-Abakowsky, J., Kursk, Russia. Fished joint for rails. No. 908,934; Jan. 5; Sp. p. 1029; Gaz. vol. 138; p. 165.
- Baker, A. D., South Bend, Ind. Cotton-chopper. No. 936,693; Oct. 12; Sp. p. 2307; Gaz. vol. 147; p. 382.
- Baker, A. E., Wabash, Ind. Combined cabinet and display-rack. No. 939,199; Nov. 9; Sp. p. 1616; Gaz. vol. 148; p. 285.
- Baker, B. E., assignor to Baker Electric Company, Hartford, Conn. Static induction generator. No. 937,691; Oct. 19; Sp. p. 4343; Gaz. vol. 147; p. 740.
- Baker, C., Philadelphia, Pa. Trolley. No. 921,661; May 18; Sp. p. 3244; Gaz. vol. 142; p. 577.
- Baker, C. B., St. Louis, Mo. Number-plate holder for headlights. No. 920,714; May 4; Sp. p. 1280; Gaz. vol. 142; p. 205.
- Baker, C. E., Ottawa, Ontario, Canada. Adjustable garment-band. No. 912,642; Feb. 16; Sp. p. 3344; Gaz. vol. 139; p. 600.
- Baker, C. F. (See Evans and Cherry, assignors.)
- Baker, C. L., assignor of one-third to C. J. Dochat and one-third to J. E. Klos, Lancaster, Pa. Ball-and-socket umbrella-runner. No. 924,627; June 15; Sp. p. 3308; Gaz. vol. 143; p. 569.
- Baker, C. S. (See Graham and Baker.)
- Baker, C. W. (See Baker and McLennan.)
- Baker, C. W., Delphos, Iowa. Heating-stove. No. 910,109; Jan. 19; Sp. p. 3370; Gaz. vol. 138; p. 619.
- Baker, D., Philadelphia, Pa. Furnace-charging mechanism. No. 909,049; Jan. 5; Sp. p. 1257; Gaz. vol. 138; p. 202.
- Baker, D., Philadelphia, Pa. Method of and apparatus for drying air. No. 926,972; July 6; Sp. p. 552; Gaz. vol. 144; p. 90.
- Baker, D., Newton, Mass., assignor to Brown Hoisting Machinery Company. Mechanism for charging furnaces. No. 910,264; Jan. 19; Sp. p. 3741; Gaz. vol. 138; p. 675.
- Baker, D. B. (See Hamacek, A. F., assignor.)
- Baker, D. F., St. Louis, Mo., assignor to National Alcohol Light and Heating Company. Alcohol-burner. No. 925,979; June 22; Sp. p. 6049; Gaz. vol. 143; p. 1045.
- Baker, E. B. (See Baker, W. H. and E. B.)
- Baker, E. E., Pittsburg, Pa. Display-rack and storage-frame. No. 938,363; Oct. 26; Sp. p. 5811; Gaz. vol. 147; p. 986.
- Baker, E. E., Warsaw, assignor of one-half to E. E. Charles, Rochester, N. Y. Railway-tie and fastener. No. 935,243; Sept. 28; Sp. p. 4564; Gaz. vol. 146; p. 812.
- Baker, E. K. (See Hawley and Baker.)
- Baker Electric Company. (See Baker, B. E., assignor.)
- Baker, F. D., Denver, Colo. Ore-roasting pot. No. 942,810; Dec. 7; Sp. p. 1597; Gaz. vol. 149; p. 262.
- Baker, F. D., Denver, Colo. Ore-cooler. No. 943,294; Dec. 14; Sp. p. 2719; Gaz. vol. 149; p. 469.
- Baker, F. E. (See Russell, Atkinson, and Baker.)
- Baker, F. E., Oskaloosa, Iowa. Heating system. No. 917,521; Apr. 6; Sp. p. 1105; Gaz. vol. 141; p. 193.
- Baker, F. K., Alameda, Cal. Combined door latch and bolt. No. 915,536; Mar. 16; Sp. p. 3857; Gaz. vol. 140; p. 670.
- Baker, F. R. (See Smith, A. J., assignor.)
- Baker, F. R., Birmingham, England, assignor to L. E. Waterman Company, New York, N. Y. Clip. No. 908,537; Jan. 5; Sp. p. 222; Gaz. vol. 138; p. 38.
- Baker, G. (See Bush, H. T., assignor.)
- Baker, G. N., Decatur, Ill. Metal frame. No. 911,195; Feb. 2; Sp. p. 337; Gaz. vol. 139; p. 59.
- Baker, G. S., Willesden Junction, London, England. Machine for the transport of dough. No. 927,474; July 13; Sp. p. 1580; Gaz. vol. 144; p. 284.
- Baker, G. S., London, England. Machine for treating dough and like materials. No. 941,296; Nov. 23; Sp. p. 6291; Gaz. vol. 148; p. 1053.
- Baker, G. W., C. W. Baker, and R. McLennan, Ballston Spa, N. Y. Street-sweeping apparatus. No. 911,196; Feb. 2; Sp. p. 339; Gaz. vol. 139; p. 59.



*Alphabetical list of patentees—Continued.*

Baker Gun & Forging Company. (See Farwell and Schafer, assignors.)

- Baker, H. G., Montreal, Quebec, Canada. Dry-pipe valve. No. 941,971; Nov. 30; Sp. p. 7729; Gaz. vol. 148; p. 1302.  
 Baker, H. M., Jr., New York, N. Y. Gearing. No. 942,609; Dec. 7; Sp. p. 1205; Gaz. vol. 149; p. 197.  
 Baker, H. S., Wilkinsburg, Pa. Meter-relay. No. 926,312; June 29; Sp. p. 6750; Gaz. vol. 143; p. 1190.  
 Baker, H. S., Wilkinsburg, Pa. Circuit making and breaking device. No. 933,012; Aug. 31; Sp. p. 7110; Gaz. vol. 145; p. 1222.  
 Baker, J., Pasadena, Cal. Detachable securing means for tires. No. 913,251; Feb. 23; Sp. p. 4602; Gaz. vol. 139; p. 825.  
 Baker, J., Pasadena, Cal. Detachable securing means for tires. No. 913,252; Feb. 23; Sp. p. 4605; Gaz. vol. 139; p. 826.  
 Baker, J., Pasadena, Cal. Detachable securing means for tires. No. 913,253; Feb. 23; Sp. p. 4606; Gaz. vol. 139; p. 826.  
 Baker, J., Pasadena, Cal. Detachable securing means for tires. No. 913,254; Feb. 23; Sp. p. 4607; Gaz. vol. 139; p. 826.  
 Baker, J. D., assignor of one-half to A. Arter, Lisbon, Ohio. Hay-loader. No. 930,119; Aug. 3; Sp. p. 1050; Gaz. vol. 145; p. 119.  
 Baker, J. E., New York, N. Y. Shoe-tree. No. 923,479; June 1; Sp. p. 820; Gaz. vol. 143; p. 123.  
 Baker, J. E., New York, N. Y. Shoe-tree. No. 923,480; June 1; Sp. p. 821; Gaz. vol. 143; p. 123.  
 Baker, J. F., Littleton, W. Va. Well-tube cutter. No. 942,701; Dec. 7; Sp. p. 1382; Gaz. vol. 149; p. 227.  
 Baker, J. F., and A. C. Moore, Kansas City, Mo. Elevator signal system. No. 931,835; Aug. 24; Sp. p. 4675; Gaz. vol. 145; p. 810.  
 Baker, J. H. (See App, Baker, and Bolton.)  
 Baker, J. H., Pittsburg, Pa. Brake-hanger for car-trucks. No. 919,676; Apr. 27; Sp. p. 5836; Gaz. vol. 141; p. 1002.  
 Baker, J. H., Pittsburg, Pa. Side frame for car-trucks. No. 919,677; Apr. 27; Sp. p. 5837; Gaz. vol. 141; p. 1002.  
 Baker, J. H., Pittsburg, Pa. Bolster. No. 937,692; Oct. 19; Sp. p. 4344; Gaz. vol. 147; p. 740.  
 Baker, J. H., Philadelphia, Pa. Box. No. 938,811; Nov. 2; Sp. p. 776; Gaz. vol. 148; p. 125.  
 Baker, J. M., Saugus, Mass. Toll-box. No. 912,776; Feb. 16; Sp. p. 3675; Gaz. vol. 139; p. 646.  
 Baker, J. M., Tarboro, N. C. Shock-protector. No. 915,927; Mar. 23; Sp. p. 4667; Gaz. vol. 140; p. 828.  
 Baker, J. R., and T. Chamberlain, Philadelphia, Pa. Jacquard mechanism for weaving cut-pile carpets. No. 919,414; Apr. 27; Sp. p. 5267; Gaz. vol. 141; p. 912.  
 Baker, J. R., Maplewood, and M. Loucks and W. R. Clark, Jersey City, N. J.; said Clark assignor to Y. A. Loucks, Jersey City, N. J. Car-bearing. No. 917,522; Apr. 6; Sp. p. 1108; Gaz. vol. 141; p. 193.  
 Baker, K., Woodbury, Pa. Crib attachment. No. 918,259; Apr. 13; Sp. p. 2647; Gaz. vol. 141; p. 469.  
 Baker, L. A., Elgin, Ill. Can-filling machine. No. 910,265; Jan. 19; Sp. p. 3748; Gaz. vol. 138; p. 675.  
 Baker, L. C. (See Baker, M. E. and L. C.)  
 Baker, L. H., et al. (See Bullard, R. G., assignor.)  
 Baker, L. W., assignor of one-half to J. F. Keyes, Wilmington, N. C. Automatic air-governor. No. 930,120; Aug. 3; Sp. p. 1054; Gaz. vol. 145; p. 169.  
 Baker, M. A., Los Angeles, Cal. Machine for truing the ends of metallic pipes or other objects. No. 916,650; Mar. 30; Sp. p. 6082; Gaz. vol. 140; p. 1090.  
 Baker, M. A., Los Angeles, Cal. Belt-gearing. No. 920,519; May 4; Sp. p. 863; Gaz. vol. 142; p. 139.  
 Baker, M. E. and L. C., Riverton, Nebr. Animal-poke. No. 924,219; June 8; Sp. p. 2472; Gaz. vol. 143; p. 401.  
 Baker Motor Vehicle Company. (See Gruenfeldt, E., assignor.)  
 Baker Motor Vehicle Company. (See Remde, E. H., assignor.)  
 Baker, O. O., assignor of one-tenth to J. Silman, one-twentieth to D. S. Helmer, one-twentieth to W. J. Barrho, one-twentieth to M. M. Pomery, one-twentieth to M. L. App, one-twentieth to D. McConeghy, one-twentieth to M. N. Allen, one-twentieth to D. B. Allen, and one-twentieth to M. C. Field, Port Allegany, Pa. Electric call and alarm system. No. 933,412; Sept. 7; Sp. p. 847; Gaz. vol. 146; p. 132.  
 Baker, P. J., Gradyville, Pa. Folding crate. No. 921,789; May 18; Sp. p. 3490; Gaz. vol. 142; p. 620.  
 Baker, R. D., Detroit, Mich. Hat retaining and ventilating means. No. 942,303; Dec. 7; Sp. p. 584; Gaz. vol. 149; p. 93.  
 Baker, S. A., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Last. No. 914,376; Mar. 9; Sp. p. 1548; Gaz. vol. 140; p. 264.  
 Baker, S. A., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoes. No. 914,377; Mar. 9; Sp. p. 1551; Gaz. vol. 140; p. 264.  
 Baker-Vawter Company. (See Bystrom, J., assignor.)  
 Baker, W., Youngstown, Ohio. Feed-regulator. No. 932,944; Aug. 31; Sp. p. 6987; Gaz. vol. 145; p. 1200.  
 Baker, W., Aberdeen, S. D., assignor of four-fifths to J. McCabe, Minneapolis, Minn., and F. Crane, Cummings, N. D. Loading apparatus. No. 910,446; Jan. 19; Sp. p. 4118; Gaz. vol. 138; p. 738.  
 Baker, W. H., assignor of one-half to E. B. Baker, Sugar Creek, Ohio. Pavement. No. 944,652; Dec. 28; Sp. p. 5649; Gaz. vol. 149; p. 980.  
 Baker, W. H. H., Sciota Mills, Ill. Power device. No. 942,534; Dec. 7; Sp. p. 1061; Gaz. vol. 149; p. 172.  
 Baker, W. J., Newport, Ky. Laundry-tag. No. 920,412; May 4; Sp. p. 657; Gaz. vol. 142; p. 104.  
 Baker, W. J., Washington, D. C., assignor of one-half to W. F. Mitchell, Baltimore, Md. Trolley. No. 910,161; Jan. 19; Sp. p. 3475; Gaz. vol. 138; p. 636.  
 Baker, W. M. (See Riggle and Baker.)  
 Baker, W. M., South Bend, Ind. Flush-tank. No. 916,967; Apr. 6; Sp. p. 14; Gaz. vol. 141; p. 5.  
 Baker, W. W. (See Palmer and Baker.)  
 Baiken, A. K., Sharon, N. D. Nest-box for hens. No. 910,484; Jan. 26; Sp. p. 4213; Gaz. vol. 138; p. 776.  
 Balance Pressure Rotary Engine Company. (See Hoffman, B. F., assignor.)  
 Balch, S. W., Montclair, N. J. Rotary engine. No. 913,255; Feb. 23; Sp. p. 4609; Gaz. vol. 139; p. 827.  
 Balch, W. H., Philadelphia, Pa. Brake. No. 916,908; Mar. 30; Sp. p. 6564; Gaz. vol. 140; p. 1170.  
 Balcome, H. A., Boston, Mass., assignor to Holtzer-Cabot Electric Company. Dynamo-electric machine. No. 911,364; Feb. 2; Sp. p. 669; Gaz. vol. 139; p. 114.  
 Balcome, H. A., and A. Freier, Boston, Mass., assignors to Holtzer-Cabot Electric Company. Dynamo-electric machine. No. 931,556; Aug. 17; Sp. p. 4050; Gaz. vol. 145; p. 698.  
 Baldauf, C. L., West Hoboken, N. J., assignor to Thomas Nelson & Sons, New York, N. Y. Loose-leaf binder. No. 914,781; Mar. 9; Sp. p. 2371; Gaz. vol. 140; p. 398.  
 Baldauf, C. L., West Hoboken, N. J., assignor to Thomas Nelson & Sons, New York, N. Y. Making book-covers. No. 928,623; July 20; Sp. p. 3997; Gaz. vol. 144; p. 697.  
 Baldridge, W. L., Winter Garden, Fla. Plant-protector. No. 936,401; Oct. 12; Sp. p. 1673; Gaz. vol. 147; p. 283.  
 Baldrige, C. R., Braddock, Pa. Rail-joint. No. 922,835; May 25; Sp. p. 5646; Gaz. vol. 142; p. 989.  
 Baldt Anchor Company. (See Bickley, W. S., assignor.)  
 Baldt, F., Jr., Chester, Pa. Anchor. No. 916,384; Mar. 23; Sp. p. 5509; Gaz. vol. 140; p. 978.  
 Baldwin, A., Goffs Falls, N. H., assignor to Draper Company, Hopedale, Mass. Web-clamping device for looms. No. 910,348; Jan. 19; Sp. p. 3918; Gaz. vol. 138; p. 705.  
 Baldwin, A. J., Border Creek, Cal. Poultry-roost. No. 932,669; Aug. 31; Sp. p. 6446; Gaz. vol. 145; p. 1112.  
 Baldwin, A. J., East Orange, N. J., assignor to Baldwin-Lester Corporation. Preserving edible substances. No. 940,848; Nov. 23; Sp. p. 5333; Gaz. vol. 148; p. 904.  
 Baldwin, A. J., East Orange, N. J., and J. F. Lester, New York, N. Y. Sterilizing. No. 920,811; May 4; Sp. p. 1456; Gaz. vol. 142; p. 235.  
 Baldwin, A. T. (See Gleason, F. J., assignor.)  
 Baldwin, B. F., Springfield, Mass. Glass-cutter. No. 915,818; Mar. 23; Sp. p. 4464; Gaz. vol. 140; p. 792.  
 Baldwin, C. A., Los Angeles, Cal. Apparatus for spreading liquid asphalt. No. 927,315; July 6; Sp. p. 1243; Gaz. vol. 144; p. 204.  
 Baldwin, C. C., Perth Amboy, N. J., assignor to Standard Underground Cable Company, Pittsburg, Pa. Annealing-furnace with inlet sealed by steam. No. 932,945; Aug. 31; Sp. p. 6989; Gaz. vol. 145; p. 1200.  
 Baldwin, F., assignor of one-tenth to J. F. Welling, New York, N. Y. Armpit-shield and form. No. 916,385; Mar. 23; Sp. p. 5511; Gaz. vol. 140; p. 978.  
 Baldwin, F. L. (See Bean and Baldwin.)  
 Baldwin, G., Veed, Cal. Ratchet-wrench. No. 912,777; Feb. 16; Sp. p. 3679; Gaz. vol. 139; p. 647.  
 Baldwin, G. P. (See Blaisdell and Baldwin.)  
 Baldwin, H. L., Washington, D. C. Electric-lighting gas-burner. No. 908,538; Jan. 5; Sp. p. 224; Gaz. vol. 138; p. 38.  
 Baldwin, H. S., Lynn, Mass., assignor to General Electric Company. Nozzle for elastic-fluid turbines. No. 916,968; Apr. 6; Sp. p. 15; Gaz. vol. 141; p. 6.  
 Baldwin, J. M., Brownville, assignor of one-half to Ryther & Pringle Co., Carthage, N. Y. Rossing-machine. No. 916,651; Mar. 30; Sp. p. 6084; Gaz. vol. 140; p. 1090.  
 Baldwin, J. P., Berea, Ohio. Automatic weighing apparatus for liquids. No. 924,220; June 8; Sp. p. 2473; Gaz. vol. 143; p. 401.  
 Baldwin, J. W., Jr., Toledo, Ohio. Railway-crossing. No. 928,238; July 20; Sp. p. 3193; Gaz. vol. 144; p. 569.  
 Baldwin-Lester Corporation. (See Baldwin, A. J., assignor.)  
 Baldwin Locomotive Works. (See Vauclain, S. M., assignor.)  
 Baldwin, N., Heber, assignor to J. E. Hickman, Provo, Utah. Cooking utensil. No. 915,653; Mar. 16; Sp. p. 4123; Gaz. vol. 140; p. 713.  
 Baldwin, P. H. (See Skiles and Baldwin.)  
 Baldwin, R. C., Pomona, Cal. Sliding-door lock. No. 916,826; Mar. 30; Sp. p. 6391; Gaz. vol. 140; p. 1143.

*Alphabetical list of patentees—Continued.*

- Baldwin, S. W., New York, N. Y. Spring manufacture. No. 908,440; Jan. 5; Sp. p. 12; Gaz. vol. 138; p. 4.
- Baldwin, W. B., Fowler, Colo. Beet-topper. No. 911,197; Feb. 2; Sp. p. 341; Gaz. vol. 139; p. 60.
- Baldwin, W. J., New York, N. Y. Apparatus for separating heavy particles from air and other gases. No. 911,802; Feb. 9; Sp. p. 1520; Gaz. vol. 139; p. 284.
- Bale, C. E. (See Durrant and Bale.)
- Balen, J. A. (See Spencer, G. S., assignor.)
- Balentine, D. F., Greenville, S. C. Harness. No. 932,238; Aug. 24; Sp. p. 5543; Gaz. vol. 145; p. 944.
- Bales, H. H., Ashcroft, British Columbia, Canada. Packing-screw. No. 919,808; Apr. 27; Sp. p. 6081; Gaz. vol. 141; p. 1046.
- Bales, H. H., Ashcroft, British Columbia, Canada. Packing-extracting bit. No. 931,715; Aug. 24; Sp. p. 4437; Gaz. vol. 145; p. 773.
- Bales, J. E., Aurora, assignor to Lyon Metallic Manufacturing Company, Chicago, Ill. Shelving. No. 910,473; Jan. 19; Sp. p. 4178; Gaz. vol. 138; p. 747.
- Balfour, J. W., Tacoma, Wash. Spike. No. 925,264; June 15; Sp. p. 4587; Gaz. vol. 143; p. 784.
- Balgie, F. J., Kaukauma, Wis. Egg cabinet and testing attachment. No. 938,629; Nov. 2; Sp. p. 414; Gaz. vol. 148; p. 62.
- Balhorn, H. (See Schmidt, Rössner, and Balhorn.)
- Baling Tie Buckle Company. (See Herth, C. H., assignor.)
- Ball, A., assignor to Sullivan Machinery Company, Claremont, N. H. Coal or stone drilling machine. No. 920,007; Apr. 27; Sp. p. 6506; Gaz. vol. 141; p. 1110.
- Ball, A., assignor to Sullivan Machinery Company, Claremont, N. H. Stone or rock channeling machine. No. 927,444; July 6; Sp. p. 1499; Gaz. vol. 144; p. 248.
- Ball, C. C., assignor to Shiman-Miller Mfg. Co., Newark, N. J. Post for link-buttons. No. 944,251; Dec. 28; Sp. p. 4747; Gaz. vol. 149; p. 840.
- Ball, D., Lawrence, Mass., assignor of one-half to L. Willis, Manchester, N. H. Pitcher. No. 923,931; June 8; Sp. p. 1840; Gaz. vol. 143; p. 307.
- Ball, E. H., Cedar Rapids, Iowa. Porcelain cleat. No. 911,864; Feb. 9; Sp. p. 1636; Gaz. vol. 139; p. 303.
- Ball, F. J., New York, N. Y. Combined oil and grease gun. No. 939,465; Nov. 9; Sp. p. 2267; Gaz. vol. 148; p. 376.
- Ball, F. J., New York, assignor to New York Gear Works, Brooklyn, N. Y. Reversing mechanism. No. 924,956; June 15; Sp. p. 3984; Gaz. vol. 143; p. 681.
- Ball, F. J., assignor to New York Gear Works, New York, N. Y. Reversing mechanism. No. 936,694; Oct. 12; Sp. p. 2308; Gaz. vol. 147; p. 383.
- Ball, F. O., Plainfield, N. J. Cross-head. No. 924,876; June 15; Sp. p. 3830; Gaz. vol. 143; p. 654.
- Ball, F. W., *et al.* (See Ball, J. F., assignor.)
- Ball, G. P., Gatun, Panama. Dumping-car. No. 930,335; Aug. 10; Sp. p. 1441; Gaz. vol. 145; p. 263.
- Ball, H. F., assignor to American Locomotive Company, New York, N. Y. Wooden-rim wheel. No. 918,945; Apr. 20; Sp. p. 4147; Gaz. vol. 141; p. 725.
- Ball, H. E., New York, N. Y., assignor of one-half to S. Insull, Chicago, Ill. Apparatus for producing perforated records for automatic piano-players. No. 938,452; Oct. 26; Sp. p. 6001; Gaz. vol. 147; p. 1017.
- Ball, J., Chicago, Ill. Combined shoe shank and ventilator. No. 935,883; Oct. 5; Sp. p. 612; Gaz. vol. 147; p. 88.
- Ball, J. D., Pontiac, assignor of one-half to D. Norstedt, Chicago, Ill. Skirt-gage. No. 928,239; July 20; Sp. p. 3194; Gaz. vol. 144; p. 570.
- Ball, J. F., Estep, assignor of one-half to V. Greene, Greenview, W. Va. Wire-stretcher. No. 939,787; Nov. 9; Sp. p. 2955; Gaz. vol. 148; p. 486.
- Ball, J. F., assignor of one-fourth to C. C. Bills, one-fourth to P. D. Cutler, and one-fourth to F. W. Ball, San Francisco, Cal. Propeller. No. 933,013; Aug. 31; Sp. p. 7111; Gaz. vol. 145; p. 1222.
- Ball, J. W., Logansport, Ind. Perforating attachment for ruling-machines. No. 927,400; July 6; Sp. p. 1395; Gaz. vol. 144; p. 231.
- Ball, W. (See Cooley, J. F., assignor.)
- Ball, W., Echuca, Victoria, Australia. Hypodermic syringe. No. 938,544; Nov. 2; Sp. p. 238; Gaz. vol. 148; p. 34.
- Ballance, G. L., *et al.* (See Koontz, N. J., assignor.)
- Ballantine, E. M., Philadelphia, Pa. Shuttle attachment. No. 920,715; May 4; Sp. p. 1281; Gaz. vol. 142; p. 205.
- Ballard, A., Dunlap, Iowa. Means to prevent tanks from bursting by freezing. No. 931,112; Aug. 17; Sp. p. 3136; Gaz. vol. 145; p. 549.
- Ballard, C. E., Guthrie Center, Iowa. Cow-weaner. No. 934,651; Sept. 21; Sp. p. 3385; Gaz. vol. 146; p. 590.
- Ballard, C. P., Hunters Springs, W. Va. Machine for separating cockle from wheat. No. 923,932; June 8; Sp. p. 1841; Gaz. vol. 143; p. 307.
- Ballard, F. C. (See Sickelsteel and Ballard.)
- Ballard, G. L., assignor to Wildman Mfg. Co., Norristown, Pa. Take-up mechanism for knitting-machines. No. 940,656; Nov. 23; Sp. p. 4904; Gaz. vol. 148; p. 840.
- Ballard, J. A. (See Ware, H. W., assignor.)
- Ballard, J. C., *et al.* (See Reynolds, H. B., assignor.)
- Ballard, M. H., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Buffing device. No. 927,926; July 13; Sp. p. 2561; Gaz. vol. 144; p. 436.
- Ballard, R. F., Fort Worth, Tex. Dispensing grocery-cabinet. No. 921,941; May 18; Sp. p. 3803; Gaz. vol. 142; p. 669.
- Ballenger, A. T., Wayne county, Ind. Coin-holder. No. 916,652; Mar. 30; Sp. p. 6087; Gaz. vol. 140; p. 1091.
- Ballenger, A. T., Wayne county, Ind. Wire-connector. No. 916,653; Mar. 30; Sp. p. 6088; Gaz. vol. 140; p. 1091.
- Ballin, A. V., Yankers, assignor to Ballin Indicator Company, New York, N. Y. Indicator. No. 922,238; May 18; Sp. p. 4413; Gaz. vol. 142; p. 766.
- Ballin Indicator Company. (See Ballin, A. V., assignor.)
- Ballinger, B. A., Los Angeles, Cal. Mail-catcher. No. 937,138; Oct. 19; Sp. p. 3194; Gaz. vol. 147; p. 559.
- Ballman, W. C., Six Mile Run, Pa. Miner's cap. No. 917,987; Apr. 13; Sp. p. 2083; Gaz. vol. 141; p. 376.
- Ballman, W. E., Detroit, Mich. Dust-pan. No. 940,422; Nov. 16; Sp. p. 4407; Gaz. vol. 148; p. 757.
- Balloca, A., assignor to Company Itala, Fabbrica di Automobili, Turin, Italy. Friction-clutch mechanism for automobiles and for other applications. No. 934,264; Sept. 14; Sp. p. 2628; Gaz. vol. 146; p. 436.
- Ballore, A. M. de M. de Tunis, Tunis, assignor to Société Anonyme pour la Fabrication des Pates à Papier de Lin et Succédanés, Tunis, Africa. Chemical process for the treatment of the straw of flax or other plants. No. 921,502; May 11; Sp. p. 2891; Gaz. vol. 142; p. 497.
- Ballou, C. W., Sellersburg, Ind. Curtain-stretcher. No. 908,640; Jan. 5; Sp. p. 443; Gaz. vol. 138; p. 71.
- Ballou, G. F., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 929,182; July 27; Sp. p. 5133; Gaz. vol. 144; p. 912.
- Ballou, G. F., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 929,271; July 27; Sp. p. 5320; Gaz. vol. 144; p. 940.
- Ballou Manufacturing Company. (See Demorest, M. J., assignor.)
- Ballreich, C., Pueblo, Colo. Hand razor-stripper. No. 909,050; Jan. 5; Sp. p. 1262; Gaz. vol. 138; p. 202.
- Ballreich, C., Pueblo, Colo. Lawn-sprinkler. No. 943,172; Dec. 14; Sp. p. 2456; Gaz. vol. 149; p. 417.
- Ballweg, J. (See Ballweg, J. H., assignor.)
- Ballweg, J. H., assignor of one-half to J. Ballweg, Baker City, Oreg. Annunciator. No. 921,060; May 11; Sp. p. 1958; Gaz. vol. 142; p. 348.
- Balog, L., New York, N. Y. Propeller. No. 925,265; June 15; Sp. p. 4588; Gaz. vol. 143; p. 784.
- Bals, C. A. (See Corwin and Bals.)
- Balsley, G. S. and P. H. A., Detroit, Mich. Machine for forming plastic material. No. 942,238; Dec. 7; Sp. p. 451; Gaz. vol. 149; p. 69.
- Balsley, P. H. A. (See Balsley, G. S. and P. H. A.)
- Balthasar, C. J., St. Louis, Mo. Thermostatic regulator. No. 919,522; Apr. 27; Sp. p. 5524; Gaz. vol. 141; p. 948.
- Bambauer, E., Volta, Cal. Punching-machine. No. 910,575; Nov. 16; Sp. p. 4732; Gaz. vol. 143; p. 788.
- Bamberger, H. A., Eilers, Pa. Railway-tie and fastener. No. 924,414; June 8; Sp. p. 2853; Gaz. vol. 143; p. 466.
- Bambridge Patent Flexible Shaft Company. (See Bambridge, W. G., assignor.)
- Bambridge, W. G., assignor to Bambridge Patent Flexible Shaft Company, Limited, Kettering, England. Flexible shaft. No. 944,228; Dec. 21; Sp. p. 4692; Gaz. vol. 149; p. 804.
- Bancroft, J. S., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Comparator. No. 944,404; Dec. 28; Sp. p. 5081; Gaz. vol. 149; p. 894.
- Bancroft, J. S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Strip-perforator. No. 915,537; Mar. 16; Sp. p. 3858; Gaz. vol. 140; p. 670.
- Bancroft, J. S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Type-casting machine. No. 915,538; Mar. 16; Sp. p. 3866; Gaz. vol. 140; p. 671.
- Bancroft, J. S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Controlling mechanism for type-machines. No. 924,957; June 15; Sp. p. 3987; Gaz. vol. 143; p. 681.
- Bancroft, J. S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Record-strip composing-machine. No. 938,298; Oct. 26; Sp. p. 5638; Gaz. vol. 147; p. 964.
- Bancroft, J. S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Record-strip composing-machine. No. 944,405; Dec. 28; Sp. p. 5083; Gaz. vol. 149; p. 895.
- Bancroft, J. W., Norwalk, Conn. Awning-fixture. No. 943,059; Dec. 14; Sp. p. 2245; Gaz. vol. 149; p. 381.



*Alphabetical list of patentees—Continued.*

- Bancroft, W., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Multiplex composing mechanism. No. 925,073; June 15; Sp. p. 4223; Gaz. vol. 143; p. 720.
- Bander, L. S., South Tacoma, Wash. Roll-film holder. No. 921,901; May 11; Sp. p. 1655; Gaz. vol. 142; p. 295.
- Bandieri, G., Cincinnati, Ohio. Electric advertising apparatus. No. 922,836; May 25; Sp. p. 5647; Gaz. vol. 142; p. 990.
- Bandotype Company. (See Brooks, B. A., assignor.)
- Bandy, G. W., Tallahassee, Fla. Gear-case. No. 935,351; Sept. 28; Sp. p. 4793; Gaz. vol. 146; p. 847.
- Bandy, W. S., Andrews, Ind. Drinking-fountain for poultry. No. 926,538; June 29; Sp. p. 7162; Gaz. vol. 143; p. 1265.
- Bane, H. H., and S. G. Crane, Kansas City, Mo., assignors of one-third to H. B. Pruden, one-third to E. R. Lines, and one-third to C. B. Longstreth, Dayton, Ohio. Illuminating apparatus for scales. No. 937,573; Oct. 19; Sp. p. 4129; Gaz. vol. 147; p. 703.
- Bane, J. O., Waseca, Minn. Counterbalancing device for pumps. No. 939,967; Nov. 16; Sp. p. 3341; Gaz. vol. 148; p. 578.
- Banes, E. T., Philadelphia, Pa. Telephone-cord protector. No. 912,778; Feb. 16; Sp. p. 3680; Gaz. vol. 139; p. 647.
- Banfil, W. H., Boston, Mass. Fire-extinguisher. No. 908,727; Jan. 5; Sp. p. 635; Gaz. vol. 138; p. 99.
- Banfill, W. A., Ipswich, Mass. Casing and marking gage. No. 924,877; June 15; Sp. p. 3831; Gaz. vol. 143; p. 654.
- Banfill, W. A., assignor of one-fourth to W. V. Burrage, Ipswich, Mass. Lubricator for shoe-machines. No. 908,935; Jan. 5; Sp. p. 1030; Gaz. vol. 138; p. 166.
- Bang, J., California, and P. Neil, Suterville, Pa. Motor. No. 916,969; Apr. 6; Sp. p. 17; Gaz. vol. 141; p. 6.
- Bange, C. de, Versailles, France. Bogie with one or several axles. No. 913,872; Mar. 2; Sp. p. 432; Gaz. vol. 140; p. 70.
- Bangen, S. M. O., Crookston, Minn. Pneumatic straw-stacker. No. 921,341; May 11; Sp. p. 2572; Gaz. vol. 142; p. 444.
- Bangert, H. M., Roselle Park, and J. A. Oakley, Elizabeth, N. J. Tennis-court marker. No. 922,074; May 18; Sp. p. 4076; Gaz. vol. 142; p. 713.
- Bangs, A. R., New York, N. Y. Wheel-tire. No. 923,104; May 25; Sp. p. 6201; Gaz. vol. 142; p. 1075.
- Bangs, C. T., Chicago, Ill. Traction-wheel. No. 926,313; June 29; Sp. p. 6752; Gaz. vol. 143; p. 1191.
- Bangs, D. E., Medford, Mass. Briquet-machine. No. 916,827; Mar. 30; Sp. p. 6393; Gaz. vol. 140; p. 1143.
- Bank, G., Buffalo, N. Y. Shock-absorber. No. 931,671; Aug. 17; Sp. p. 4292; Gaz. vol. 145; p. 733.
- Bank Specialty Manufacturing Company. (See Hess, C. F., assignor.)
- Banke, J. H., Dayton, Ohio. Wood-scraper. No. 911,536; Feb. 2; Sp. p. 977; Gaz. vol. 139; p. 170.
- Banker, A. H., et al. (See King, J. A., assignor.)
- Bankers Construction Company. (See Goldsmith, Rees, and Wheeler, assignors.)
- Bankers Construction Company. (See Wheeler and Hilckman, assignors.)
- Banker's Dust-Proof Time Lock Company. (See Benham, E. M., assignor.)
- Banks, A. M., Brooklyn, N. Y. Device for drying photographic films. No. 923,481; June 1; Sp. p. 823; Gaz. vol. 143; p. 124.
- Banks, A. O., Baltimore, and G. E. Banks, Brunswick, assignors to Maryland Railway Supply Company, Baltimore, Md. Hanger for freight-car doors. No. 937,751; Oct. 26; Sp. p. 4484; Gaz. vol. 147; p. 778.
- Banks, G. E. (See Banks, A. O. and G. E.)
- Banks, J. B. (See Evans, J. W., assignor.)
- Banks, J. S. (See Aylett and Banks.)
- Banks, O. T., London, England. Guard or screen for motor road-vehicles. No. 910,772; Jan. 26; Sp. p. 4796; Gaz. vol. 138; p. 867.
- Banks, S. W., Jr., Alanthus, Va. Folding crate. No. 937,913; Oct. 26; Sp. p. 4824; Gaz. vol. 147; p. 834.
- Banks, T. H., San Antonio, Tex. Vehicle-tire. No. 943,173; Dec. 14; Sp. p. 2457; Gaz. vol. 149; p. 417.
- Bankson, J. H., Otterbein, Ind. Hame-fastening. No. 942,160; Dec. 7; Sp. p. 288; Gaz. vol. 149; p. 44.
- Bankston, W. L. (See Shipman, Bankston, and Shipman.)
- Bannhr, C. R., New York, N. Y. Aerodart. No. 931,026; Aug. 17; Sp. p. 2941; Gaz. vol. 145; p. 520.
- Banning, J. O., New York, N. Y., assignor to Kanawha Chemical Engine Manufacturing Company, Charleston, W. Va. Reducing-valve. No. 930,121; Aug. 3; Sp. p. 1057; Gaz. vol. 145; p. 170.
- Banning, J. O., New York, N. Y., assignor to Kanawha Chemical Engine Manufacturing Company, Charleston, W. Va. Apparatus for extinguishing fires. No. 930,122; Aug. 3; Sp. p. 1058; Gaz. vol. 145; p. 170.
- Banning, J. O., New York, N. Y., assignor to Kanawha Chemical Engine Manufacturing Company, Charleston, W. Va. Fire-extinguisher. No. 930,123; Aug. 3; Sp. p. 1060; Gaz. vol. 145; p. 170.
- Bannon, F., Burlington, Mass. Safety device for elevators. No. 925,074; June 15; Sp. p. 4227; Gaz. vol. 143; p. 720.
- Bannon, L. F. (See Glass, F., assignor.)
- Bansart, L., Jolimont Haine St. Paul, Belgium. Coke-oven. No. 928,302; July 20; Sp. p. 3367; Gaz. vol. 144; p. 502.
- Banser, J., Cedar Lake, Ind. Street-sweeping machine. No. 911,696; Feb. 9; Sp. p. 1343; Gaz. vol. 139; p. 250.
- Bant, A. J., and H. Gullett, Johannesburg, Transvaal. Distributing-valve for percussive rock-drilling machines. No. 910,447; Jan. 19; Sp. p. 4121; Gaz. vol. 138; p. 738.
- Banyay, B., Newark, Ohio. Draft-gear and coupling. No. 924,028; June 8; Sp. p. 2034; Gaz. vol. 143; p. 337.
- Banzhaf, E., Easton, Pa. Chimney. No. 925,980; June 22; Sp. p. 6050; Gaz. vol. 143; p. 1046.
- Baptiste, G., St. Louis, Mo. Self-adjusting folding arm for awnings. No. 922,837; May 25; Sp. p. 5652; Gaz. vol. 142; p. 990.
- Barabas, F. (See Kalas, Klasna, and Barabas.)
- Baraduc-Muller, L. H., Paris, France. Metallurgic process to produce metals or steels of all qualities. No. 933,357; Sept. 7; Sp. p. 731; Gaz. vol. 146; p. 114.
- Barbagelat, A., Quincy, Mass. Stone-cutting tool. No. 930,718; Aug. 10; Sp. p. 2248; Gaz. vol. 145; p. 391.
- Barbaro, V. F., Springfield, Ill. Cooler. No. 928,420; July 20; Sp. p. 3579; Gaz. vol. 144; p. 633.
- Barbee, J. F., Grand Island, Nebr. Harrow attachment for plows. No. 910,162; Jan. 19; Sp. p. 3477; Gaz. vol. 138; p. 636.
- Barbee, J. F., Grand Island, Nebr. Harrow attachment for cultivators. No. 910,349; Jan. 19; Sp. p. 3922; Gaz. vol. 138; p. 705.
- Barbee Wire & Iron Works. (See Rix, G. K., assignor.)
- Barber, A. L., Washington, D. C., assignor to A. L. Barber Asphalt Company, New York, N. Y. Road and building same. No. 915,062; Mar. 16; Sp. p. 2881; Gaz. vol. 140; p. 515.
- Barber Asphalt Paving Company. (See Kerns, W. E., assignor.)
- Barber Asphalt Paving Company. (See Prescott and Kerns, assignors.)
- Barber Asphalt Paving Company. (See Richardson, C., assignor.)
- Barber-Colman Company. (See Begins, J., assignor.)
- Barber-Colman Company. (See Colman, H. D., assignor.)
- Barber-Colman Company. (See Dorr, W. L., assignor.)
- Barber, E. A., Watertown, N. Y. Hand-brake for railway-cars. No. 911,285; Feb. 2; Sp. p. 523; Gaz. vol. 139; p. 89.
- Barber, E. A., York, Pa. Railway-track. No. 934,265; Sept. 14; Sp. p. 2630; Gaz. vol. 146; p. 436.
- Barber, E. A., York, Pa. Railway-car. No. 935,634; Oct. 5; Sp. p. 12; Gaz. vol. 147; p. 4.
- Barber, F. L., St. Paul, Minn., assignor to W. H. Miner Company, Chicago, Ill. Draft-rigging for cars. No. 908,936; Jan. 5; Sp. p. 1031; Gaz. vol. 138; p. 166.
- Barber, G. D., trustee. (See Moineau, H. E., assignor.)
- Barber, G. D., Worcester, Mass. Envelop for post-cards, &c. No. 932,090; Aug. 24; Sp. p. 5248; Gaz. vol. 145; p. 895.
- Barber, H., Olmstead, Ill. Trap. No. 919,116; Apr. 20; Sp. p. 4458; Gaz. vol. 141; p. 775.
- Barber, H., Elwood, Ind. Liquid-distributing apparatus. No. 920,520; May 4; Sp. p. 364; Gaz. vol. 142; p. 139.
- Barber, H., Chicago, Ill. Draft device. No. 928,168; July 13; Sp. p. 3020; Gaz. vol. 144; p. 515.
- Barber, H., Chicago, Ill. Draft device. No. 937,037; Oct. 19; Sp. p. 2993; Gaz. vol. 147; p. 525.
- Barber, H. M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Collecting and folding machine. (Reissue.) No. 12,958; Mar. 25; Sp. p. 6273; Gaz. vol. 142; p. 1085.
- Barber, H. M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Rotary printing-press. No. 929,538; July 27; Sp. p. 5849; Gaz. vol. 144; p. 1028.
- Barber, J. C., Chicago, Ill. Car-truck. No. 933,223; Sept. 7; Sp. p. 439; Gaz. vol. 146; p. 67.
- Barber, J. C., Chicago, Ill. Car-truck. No. 933,224; Sept. 7; Sp. p. 440; Gaz. vol. 146; p. 68.
- Barber, J. C., Chicago, Ill. Car-truck. No. 935,951; Oct. 5; Sp. p. 745; Gaz. vol. 147; p. 111.
- Barber, J. C., Chicago, Ill. Center-bearing for cars. No. 937,038; Oct. 19; Sp. p. 2994; Gaz. vol. 147; p. 525.
- Barber, J. C., Chicago, Ill. Lateral-motion roller-bearing device for car-trucks. No. 937,752; Oct. 26; Sp. p. 4485; Gaz. vol. 147; p. 779.
- Barber, J. C., Chicago, Ill. Car-truck. No. 942,048; Dec. 7; Sp. p. 7; Gaz. vol. 149; p. 4.
- Barber, J. C., Chicago, Ill. Car-truck. No. 942,702; Dec. 7; Sp. p. 1385; Gaz. vol. 149; p. 227.
- Barber, J. D., Cleveland, Ohio. Block-mold. No. 926,231; June 29; Sp. p. 6609; Gaz. vol. 143; p. 1166.
- Barber, J. D., assignor of one-third to J. Demulling, Ritzville, Wash. Safety attachment for elevators. No. 923,105; May 25; Sp. p. 6204; Gaz. vol. 142; p. 1075.
- Barber, L. W., Chicago, Ill. Center-bearing for cars. No. 909,518; Jan. 12; Sp. p. 2200; Gaz. vol. 138; p. 390.
- Barber, S. A., Salem, Ohio. Ironing-board. No. 922,446; May 25; Sp. p. 4831; Gaz. vol. 142; p. 446.
- Barber, W., Bridgeport, Pa. Carding-machine. No. 923,003; May 25; Sp. p. 5979; Gaz. vol. 142; p. 1043.
- Barber, W. L., assignor to G. W. Dover, Providence, R. I. Envelop-opener. No. 934,032; Sept. 14; Sp. p. 2159; Gaz. vol. 146; p. 357.

*Alphabetical list of patentees—Continued.*

- Barberie, J., and T. J. Walsh, Brooklyn, assignors to Barberie Locomotive Appliance Company, New York, N. Y. Safety apparatus for motor-cars. No. 927,475; July 13; Sp. p. 1583; Gaz. vol. 144; p. 285.
- Barberie Locomotive Appliance Company. (See Barberie and Walsh, assignors.)
- Barbian, F. S. (See Barnickel, F. E., assignor.)
- Barbieri, L., New York, N. Y. Sash-operating device. No. 912,779; Feb. 16; Sp. p. 3682; Gaz. vol. 139; p. 647.
- Barbieri, L., New York, N. Y. Sash-operating device. No. 912,780; Feb. 16; Sp. p. 3684; Gaz. vol. 139; p. 648.
- Barbour, C., assignor to Standard Underground Cable Company, Pittsburg, Pa. Binding-post. No. 914,327; Mar. 2; Sp. p. 1430; Gaz. vol. 140; p. 221.
- Barbour, G. H., Pittsburg, Pa. Interlocking metal sheet-piling. No. 926,455; June 29; Sp. p. 7025; Gaz. vol. 143; p. 1238.
- Barbour, G. H., Pittsburg, Pa. Rail-joint. No. 940,777; Nov. 23; Sp. p. 5186; Gaz. vol. 148; p. 881.
- Barbour, G. H., Pittsburg, Pa. Hotbed. No. 943,373; Dec. 14; Sp. p. 2882; Gaz. vol. 149; p. 485.
- Barbour, T. J., San Francisco, Cal. Collecting means for gold-dredges. No. 936,754; Oct. 12; Sp. p. 3416; Gaz. vol. 147; p. 403.
- Barbrake, J. A., Canton, Ohio, assignor to Seng Company, Chicago, Ill. Pedestal-extension-tablelock. No. 918,725; Apr. 20; Sp. p. 3680; Gaz. vol. 141; p. 652.
- Barbrake, J. A., Canton, Ohio, assignor to Seng Company, Chicago, Ill. Extension-table lock. No. 939,379; Nov. 9; Sp. p. 2083; Gaz. vol. 148; p. 347.
- Barclay, J. C., New York, N. Y. Printing-telegraph. No. 936,849; Oct. 12; Sp. p. 2603; Gaz. vol. 147; p. 434.
- Barclay, J. C., New York, N. Y. Printing-telegraph. No. 937,082; Oct. 12; Sp. p. 2972; Gaz. vol. 147; p. 494.
- Barclay, J. C., Montclair, N. J. Wire-stretcher. No. 940,423; Nov. 16; Sp. p. 4408; Gaz. vol. 148; p. 737.
- Barclay, J. C., Montclair, N. J. Wire-stretcher. No. 940,424; Nov. 16; Sp. p. 4409; Gaz. vol. 148; p. 737.
- Barclay, J. W., Mount Pleasant, Pa. Wall-papering machine. No. 933,689; Sept. 7; Sp. p. 1486; Gaz. vol. 146; p. 224.
- Barclay, R. S. (See Close, J. V., assignor.)
- Barclay, W., New York, N. Y. Toy. No. 916,970; Apr. 6; Sp. p. 18; Gaz. vol. 141; p. 6.
- Barclay, W. R., and A. Bates, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Nail-driving machine. No. 919,678; Apr. 27; Sp. p. 5839; Gaz. vol. 141; p. 1002.
- Barcsai, D. and L., Budapest, Austria-Hungary. Scaffolding. No. 944,406; Dec. 28; Sp. p. 5100; Gaz. vol. 149; p. 895.
- Barcsai, L. (See Barcsai, D. and L.)
- Bard, G. M., assignor to Norwall Manufacturing Company, Chicago, Ill. Radiator-valve. No. 933,225; Sept. 7; Sp. p. 442; Gaz. vol. 146; p. 68.
- Bardon, J. J., assignor of one-half to W. B. Morrell, Philadelphia, Pa. Umbrella. No. 928,169; July 13; Sp. p. 3020; Gaz. vol. 144; p. 516.
- Bardon, M. P., Guernsey, Cal. Track-brace. No. 925,981; June 22; Sp. p. 6051; Gaz. vol. 143; p. 1046.
- Bardons and Oliver. (See Oliver, J. G., assignor.)
- Bardsley, H., Providence, R. I., assignor to Crompton & Knowles Loom Works. Shedding mechanism for looms. No. 913,935; Mar. 2; Sp. p. 580; Gaz. vol. 140; p. 92.
- Bardsley, H., Providence, R. I., assignor to Crompton & Knowles Loom Works. Terry-loom. No. 937,139; Oct. 19; Sp. p. 3197; Gaz. vol. 147; p. 559.
- Bardsley, J., Montclair, N. J. Door closer and check. No. 915,819; Mar. 23; Sp. p. 4465; Gaz. vol. 140; p. 792.
- Bardwell, E. G. (See Charters and Bardwell.)
- Bare, W. S., Bristol, Tenn. Automatic cut-off and filter for rain-spouts. No. 936,210; Oct. 5; Sp. p. 1265; Gaz. vol. 147; p. 192.
- Barfus, G., Bound Brook, N. J. Garment-supporter. No. 928,421; July 20; Sp. p. 3581; Gaz. vol. 144; p. 633.
- Barg, L., New York, N. Y. Mold for concrete walls. No. 913,090; Feb. 23; Sp. p. 4262; Gaz. vol. 139; p. 772.
- Barg, L., New York, N. Y. Fireproof covering for office and store furniture, fixtures, &c. No. 913,091; Feb. 23; Sp. p. 4264; Gaz. vol. 139; p. 773.
- Barg, L., New York, N. Y. Machpelah or resting place for the dead. No. 920,812; May 4; Sp. p. 1457; Gaz. vol. 142; p. 236.
- Bargar, F. C., Columbus, Ohio. Life-saving device. No. 923,801; June 8; Sp. p. 1601; Gaz. vol. 143; p. 265.
- Bargar, F. C., Columbus, Ohio. Pressure-controlling valve for automobile-lamps. No. 942,995; Dec. 14; Sp. p. 2081; Gaz. vol. 149; p. 358.
- Barger, J. A. (See Smith, H., assignor.)
- Barkdoll, F. L., Greencastle, Pa. Refrigerating apparatus. No. 932,946; Aug. 31; Sp. p. 6991; Gaz. vol. 145; p. 1201.
- Barkeley Electric Manufacturing Company. (See Denny, C. W., assignor.)
- Barker, A. (See Barker, J. A., and J. P.)
- Barker, A. H., Chelmsford, England. Apparatus for separating liquids from mixtures of gases and liquids. No. 913,802; Mar. 2; Sp. p. 262; Gaz. vol. 140; p. 44.
- Barker, A. W., Fort Pierre, S. D. Natural-gas separator. No. 927,476; July 13; Sp. p. 1586; Gaz. vol. 144; p. 285.
- Barker, C. M., Plymouth, Wis. Portable sawing-machine. No. 925,553; June 22; Sp. p. 5138; Gaz. vol. 143; p. 906.
- Barker, E. J., Morgan Park, Ill. Type-writer. No. 912,525; Feb. 16; Sp. p. 3109; Gaz. vol. 139; p. 559.
- Barker, F. J., Morgan Park, Ill. Autographic register. No. 938,106; Oct. 26; Sp. p. 5235; Gaz. vol. 147; p. 898.
- Barker, G. L., *et al.* (See Larouette, H. P., assignor.)
- Barker, G. R. (See McConaughy, H., assignor.)
- Barker, I., Springfield, Ill. Gate. No. 934,876; Sept. 21; Sp. p. 3818; Gaz. vol. 146; p. 662.
- Barker, J., Carson City, Nev. Windmill. No. 928,097; July 13; Sp. p. 2877; Gaz. vol. 144; p. 492.
- Barker, J., Philadelphia, Pa. Means for elevating chairs and like objects. No. 944,169; Dec. 21; Sp. p. 4590; Gaz. vol. 149; p. 787.
- Barker, J. A., and J. P., Philadelphia, Pa. Head-rest. No. 939,655; Nov. 9; Sp. p. 2667; Gaz. vol. 148; p. 441.
- Barker, J. C., Leeds, England. Tire. No. 927,477; July 13; Sp. p. 1588; Gaz. vol. 144; p. 286.
- Barker, J. F., assignor to Gilbert & Barker Manufacturing Company, Springfield, Mass. Liquid-elevator feed-wheel. No. 939,380; Nov. 9; Sp. p. 2085; Gaz. vol. 148; p. 348.
- Barker, J. I. (See Dolph, J. R., assignor.)
- Barker, J. P. (See Barker, J. A., and J. P.)
- Barker, R. E., Lynn, Mass., assignor to General Electric Company. Electric motor. No. 919,523; Apr. 27; Sp. p. 5525; Gaz. vol. 141; p. 949.
- Barker, T. S. (See Hoyle and Barker.)
- Barker, W. S., Cambridge, Mass. Garment. No. 931,248; Aug. 17; Sp. p. 3436; Gaz. vol. 145; p. 596.
- Barker, W. S., Cambridge, Mass. Sleeve-closure. No. 931,249; Aug. 17; Sp. p. 3438; Gaz. vol. 145; p. 596.
- Barker, W. S., Cambridge, Mass. Coat-fastening means. No. 931,250; Aug. 17; Sp. p. 3440; Gaz. vol. 145; p. 597.
- Barkley, A., Pipestone, Minn. Weeder. No. 914,227; Mar. 2; Sp. p. 1221; Gaz. vol. 140; p. 191.
- Barkley, A., Pipestone, Minn. Cultivator. No. 914,228; Mar. 2; Sp. p. 1224; Gaz. vol. 140; p. 191.
- Barkman, C. E., Dayton, Ohio. Railway-switch. No. 924,958; June 15; Sp. p. 3991; Gaz. vol. 143; p. 682.
- Barlow, P. T. (See Kunzle, E., assignor.)
- Barlow, W. E. (See Sheets and Barlow.)
- Barlow, W. J., Hartford, Conn. Skirt-marker. No. 929,649; Aug. 3; Sp. p. 6; Gaz. vol. 145; p. 4.
- Barna, J. W., and V. Hoffman, Chicago, Ill. Shoe-fastener. No. 931,836; Aug. 24; Sp. p. 4680; Gaz. vol. 145; p. 811.
- Barnard, D., assignor of one-third to R. Avery, Los Angeles, Cal. Dashboard-safe for automobiles and other vehicles. No. 937,278; Oct. 19; Sp. p. 3498; Gaz. vol. 147; p. 605.
- Barnard, H. A. and R., assignors of one-third to J. B. Demary, Plattsburg, N. Y. Pruning implement. No. 928,018; July 13; Sp. p. 2727; Gaz. vol. 144; p. 465.
- Barnar, J. W., assignor of one-half to E. C. Skiles, Joseph, Ore. Bottle-bracket. No. 932,366; Aug. 24; Sp. p. 5778; Gaz. vol. 145; p. 987.
- Barnard and Leas Manufacturing Company. (See Cornwall, J. B., assignor.)
- Barnard, R. (See Barnard, H. A. and R.)
- Barnard, T. V., assignor of one-half to M. Sheley, Schaller, Iowa. Pulverizer and leveler. No. 909,051; Jan. 5; Sp. p. 1263; Gaz. vol. 138; p. 203.
- Barnard, W. L., Halstead, Kans. Combined napkin ring and holder. No. 935,454; Sept. 28; Sp. p. 4978; Gaz. vol. 146; p. 879.
- Barnes, E. B., Newberg, Ore. Non-refillable bottle. No. 941,551; Nov. 30; Sp. p. 6837; Gaz. vol. 148; p. 1157.
- Barnes, J. S., Albany, N. Y. Air-brake system. No. 915,654; Mar. 16; Sp. p. 4125; Gaz. vol. 140; p. 713.
- Barnes, A. P., and O. Schmitt, Bolckow, Mo. Motor. No. 925,860; June 22; Sp. p. 5819; Gaz. vol. 143; p. 1007.
- Barnes, C. E., Lynden, Wash. Means for opening and closing gates and the like. No. 912,058; Feb. 9; Sp. p. 2133; Gaz. vol. 139; p. 368.
- Barnes, C. L., Chicago, Ill. Embalming and burial casket. No. 915,928; Mar. 23; Sp. p. 4668; Gaz. vol. 140; p. 828.
- Barnes, C. L., Chicago, Ill. Transportation-receptacle for dead human bodies. No. 924,029; June 8; Sp. p. 2036; Gaz. vol. 143; p. 338.
- Barnes, E., Lovilla, Iowa. Hay-stacker. No. 940,657; Nov. 23; Sp. p. 4906; Gaz. vol. 148; p. 840.
- Barnes, E. J., Snowden, Wash. Crosscut-saw. No. 913,092; Feb. 23; Sp. p. 4265; Gaz. vol. 139; p. 773.
- Barnes, E. L., Detroit, Mich. Conduit. No. 921,061; May 11; Sp. p. 1901; Gaz. vol. 142; p. 348.
- Barnes, E. L., assignor to Central Station Steam Company, Detroit, Mich. Liquid-meter. No. 911,641; Feb. 9; Sp. p. 1226; Gaz. vol. 139; p. 232.
- Barnes, E. M. (See Spillman and Barnes.)



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- Barnes, F. S., assignor of one-half to R. G. Marchman and one-half to J. A. Thedford, Lindale, Tex. Gathering-machine. No. 932,670; Aug. 31; Sp. p. 6447; Gaz. vol. 145; p. 1112.
- Barnes, F. W., assignor to Eastman Kodak Co., Rochester, N. Y. Loading device for plate-racks. No. 932,091; Aug. 24; Sp. p. 5249; Gaz. vol. 145; p. 895.
- Barnes, G. A., New Haven, Conn. Match-scratcher. No. 941,487; Nov. 30; Sp. p. 6714; Gaz. vol. 148; p. 1137.
- Barnes, G. A., assignor to Ready Tool Company, New Haven, Conn. Tool. No. 944,306; Dec. 28; Sp. p. 4877; Gaz. vol. 149; p. 859.
- Barnes, G. C., Turtle Creek, Pa. Adjustable boring-tool. No. 914,328; Mar. 2; Sp. p. 1431; Gaz. vol. 140; p. 221.
- Barnes, G. C., Portvue, Pa. Tool-support for tools or tool-holders. No. 941,845; Nov. 30; Sp. p. 7487; Gaz. vol. 148; p. 1258.
- Barnes, G. M., Mill Valley, assignor to C. G. Young, Berkeley, Cal. Frame for landing-nets. No. 939,381; Nov. 9; Sp. p. 2086; Gaz. vol. 148; p. 348.
- Barnes, H. D., Uniontown, Pa. Ventilator and medicament or perfume container for hats. No. 935,832; Oct. 5; Sp. p. 499; Gaz. vol. 147; p. 71.
- Barnes, H. J., Gunter Tex. Obstetrical device. No. 940,576; Nov. 16; Sp. p. 4735; Gaz. vol. 148; p. 788.
- Barnes, H. O., Lansing, Mich. Safety elevator mechanism. No. 931,175; Aug. 17; Sp. p. 3274; Gaz. vol. 145; p. 571.
- Barnes, J. (See Mackanness, G., assignor.)
- Barnes, J. L. (See Garnett, L. E., assignor.)
- Barnes, J. M., Lucerne, Kans. Oil-burner attachment for stoves. No. 909,132; Jan. 12; Sp. p. 1458; Gaz. vol. 138; p. 265.
- Barnes, J. S., Detroit, Mich. Wire-crimping machine. No. 909,738; Jan. 12; Sp. p. 2634; Gaz. vol. 138; p. 465.
- Barnes, J. S., Detroit, Mich. Means for casting gears. No. 914,474; Mar. 9; Sp. p. 1790; Gaz. vol. 140; p. 297.
- Barnes, J. S., assignor to W. F. & John Barnes Company, Rockford, Ill. Speed-gearing. No. 923,240; July 20; Sp. p. 3195; Gaz. vol. 144; p. 570.
- Barnes, J. S., assignor to W. F. & John Barnes Company, Rockford, Ill. Variable-speed gearing. No. 928,894; July 20; Sp. p. 4535; Gaz. vol. 144; p. 790.
- Barnes Manufacturing Company. (See Ficener, A. A., assignor.)
- Barnes, P., Seattle, Wash. Steam-boiler. No. 918,260; Apr. 13; Sp. p. 2648; Gaz. vol. 141; p. 469.
- Barnes, S., Maisonneuve, Quebec, Canada, assignor to W. A. Mills, Port Chester, N. Y. Method or system of casting articles in metals. No. 910,448; Jan. 19; Sp. p. 4123; Gaz. vol. 138; p. 739.
- Barnes, W. F., assignor to W. F. Barnes Commercial Co., San Francisco, Cal. Basket-making machine. No. 934,877; Sept. 21; Sp. p. 3819; Gaz. vol. 146; p. 662.
- Barnett, A. M., assignor of one-half to J. W. Jones and J. H. Lynch, Chickasha, Okla. Door-spring. No. 912,933; Feb. 16; Sp. p. 3942; Gaz. vol. 139; p. 694.
- Barnett, A. R. (See Logan and Barnett.)
- Barnett, A. R., and E. PicKel, assignors to J. B. Godfrey, trustee, Portland, Oreg. Device for adjusting window-shades. No. 940,226; Nov. 16; Sp. p. 3942; Gaz. vol. 148; p. 670.
- Barnett, C. R. (See Hopkins and Barnett.)
- Barnett, D. W. (See Stephens, J. E., assignor.)
- Barnett, G. W., Louise, Tex. Gang-plow. No. 916,406; Mar. 30; Sp. p. 5576; Gaz. vol. 140; p. 1010.
- Barnett, G. W., Louise, Tex. Horse-detacher. No. 917,523; Apr. 6; Sp. p. 1110; Gaz. vol. 141; p. 194.
- Barnett, J. B., assignor of one-half to G. S. Hart, Fort Worth, Tex. Advertising-clock. No. 914,229; Mar. 2; Sp. p. 1229; Gaz. vol. 140; p. 191.
- Barnett, L. L., Canton, Mo. Pickle-grading machine. No. 932,749; Aug. 31; Sp. p. 6600; Gaz. vol. 145; p. 1138.
- Barnett, O. R., *et al.* (See Koester, W., assignor.)
- Barnett, O. R. (See Scott, J. M., assignor.)
- Barnett, T. A., Manifest, La. Combined wheel hub and spindle. No. 944,936; Dec. 28; Sp. p. 6254; Gaz. vol. 149; p. 1074.
- Barnette, W. J. (See Eells, A. F., assignor.)
- Barnes, C. R., assignor to Handy Manufacturing Company, Chicago, Ill. Funnel. No. 918,814; Apr. 20; Sp. p. 3846; Gaz. vol. 141; p. 680.
- Barney, E. E., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 920,521; May 4; Sp. p. 866; Gaz. vol. 142; p. 140.
- Barney, E. E., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 921,662; May 18; Sp. p. 3245; Gaz. vol. 142; p. 577.
- Barney, E. E., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 923,106; May 25; Sp. p. 6206; Gaz. vol. 142; p. 1076.
- Barney, E. E., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 927,091; July 6; Sp. p. 829; Gaz. vol. 144; p. 132.
- Barney, E. E., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 935,575; Sept. 28; Sp. p. 5245; Gaz. vol. 146; p. 920.
- Barney, E. E., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 939,583; Nov. 9; Sp. p. 2512; Gaz. vol. 148; p. 415.
- Barney, E. E., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing-machine clamp. No. 942,049; Dec. 7; Sp. p. 10; Gaz. vol. 149; p. 4.
- Barney, E. E., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 942,535; Dec. 7; Sp. p. 1063; Gaz. vol. 149; p. 172.
- Barney, F. E., Grand Junction, Colo. Orchard-heating device. No. 931,557; Aug. 17; Sp. p. 4052; Gaz. vol. 145; p. 698.
- Barney, G. H., Ashland, Ky. Feed-regulator. No. 915,539; Mar. 16; Sp. p. 3872; Gaz. vol. 140; p. 671.
- Barney, W. R., Tiona, Pa. Rail-joint. No. 922,239; May 18; Sp. p. 4416; Gaz. vol. 142; p. 767.
- Barnhard, A., Sherwood, Ohio. Railway lining-block. No. 943,295; Dec. 14; Sp. p. 2721; Gaz. vol. 149; p. 459.
- Barnhardt, W. F., Chicago, Ill. Hog-ringer. No. 921,790; May 18; Sp. p. 3491; Gaz. vol. 142; p. 621.
- Barnhart Bros. & Spindler. (See Gaunt, S. C., assignor.)
- Barnhart, H. J. (See King, Harding, and Barnhart.)
- Barnhart, L. W., Van Wert, Ohio. Vehicle-wheel. No. 918,644; Apr. 20; Sp. p. 3486; Gaz. vol. 141; p. 623.
- Barnhill, E. B., assignor of one-half to Marion Machine, Foundry & Supply Company, Marion, Ind. Flue-cleaner. No. 913,675; Feb. 23; Sp. p. 5498; Gaz. vol. 139; p. 968.
- Barnholdt, H. L., Pittsfield, Mass., assignor, by mesne assignments, to General Electric Company. Edgewise-winding machine. No. 917,401; Apr. 6; Sp. p. 897; Gaz. vol. 141; p. 155.
- Barnholdt, H. L., Pittsfield, Mass., assignor, by mesne assignments, to General Electric Company. Induction-motor. No. 919,524; Apr. 27; Sp. p. 5527; Gaz. vol. 141; p. 949.
- Barnickle, F. E., assignor to F. S. Barbian, Rochester, N. H. Reclining attachment for chairs. No. 912,354; Feb. 16; Sp. p. 2751; Gaz. vol. 139; p. 501.
- Barns, A. L., Beaver Falls, Pa. Rail-joint and tie-plate. No. 936,850; Oct. 12; Sp. p. 2611; Gaz. vol. 147; p. 435.
- Barnstead, R. F., Boston, Mass. Sterilizer. No. 927,764; July 13; Sp. p. 2209; Gaz. vol. 144; p. 382.
- Barnum, T. E., assignor to Cutler-Hammer Mfg. Co., Milwaukee, Wis. Multiple-switch starter. No. 918,493; Apr. 20; Sp. p. 3123; Gaz. vol. 141; p. 573.
- Barnum, T. E., assignor to Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Motor-controlling device. No. 942,050; Dec. 7; Sp. p. 12; Gaz. vol. 149; p. 5.
- Baron, C. S., Tiffin, Ohio. Molasses-jug and other hinged-lid receptacle. No. 940,918; Nov. 23; Sp. p. 5467; Gaz. vol. 148; p. 927.
- Baron, G., assignor of one-half to W. H. Luther, Glenellyn, Ill. Chair. No. 929,272; July 27; Sp. p. 5325; Gaz. vol. 144; p. 941.
- Baron, J. I., Erie, Pa. Spiral tool-driver. No. 924,878; June 15; Sp. p. 3833; Gaz. vol. 143; p. 654.
- Barone, G. C., Fredonia, N. Y. Stamp-vending machine. No. 916,828; Mar. 30; Sp. p. 6395; Gaz. vol. 140; p. 1144.
- Barr, A., Glasgow, Scotland, and W. Stroud, Leeds, England. Instrument for adjusting range-finders. No. 933,873; Sept. 14; Sp. p. 1862; Gaz. vol. 146; p. 307.
- Barr, A., Glasgow, Scotland, and W. Stroud, Leeds, England. Range-finder or telemeter. No. 944,649; Dec. 28; Sp. p. 5640; Gaz. vol. 149; p. 979.
- Barr, A., and W. Stroud, Anniesland, Glasgow, Scotland. Scale for range-finders. No. 940,425; Nov. 16; Sp. p. 4411; Gaz. vol. 148; p. 738.
- Barr, A., and W. Stroud, Anniesland, Glasgow, Scotland. Single-observer range-finder. No. 941,125; Nov. 23; Sp. p. 5918; Gaz. vol. 148; p. 995.
- Barr, A., and W. Stroud, Anniesland, Glasgow, Scotland. Means for supporting and working heads of range-finders. No. 943,296; Dec. 14; Sp. p. 2723; Gaz. vol. 149; p. 460.
- Barr, A. D., assignor to Mead Johnson & Company, Jersey City, N. J. Ferment and producing it. No. 911,803; Feb. 9; Sp. p. 1522; Gaz. vol. 139; p. 284.
- Barr, B. H. (See Stewart, W. H., assignor.)
- Barr, C., Chicago, Ill. Flushing-valve. No. 930,124; Aug. 3; Sp. p. 1062; Gaz. vol. 145; p. 171.
- Barr, C. J. (See Moyer, J. T., assignor.)

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- Barr, G. T., Sr., Waco, Tex., assignor of one-half to H. C. Blandford, Memphis, Tenn. Trolley-pole. No. 915,152; Mar. 16; Sp. p. 3108; Gaz. vol. 140; p. 545.
- Barr, G. T., Sr., Waco, Tex., assignor of one-half to H. C. Blandford, Memphis, Tenn. Jar. No. 931,672; Aug. 17; Sp. p. 4294; Gaz. vol. 145; p. 734.
- Barr, H. A., Ashland, Pa. Combined lighting and heating system. No. 932,947; Aug. 31; Sp. p. 6993; Gaz. vol. 145; p. 1201.
- Barr, H. P., East Orange, N. J. Kneading-machine. No. 918,494; Apr. 20; Sp. p. 3127; Gaz. vol. 141; p. 574.
- Barr, J. A., Zollarsville, Pa. Drill. No. 917,836; Apr. 13; Sp. p. 1755; Gaz. vol. 141; p. 322.
- Barr, J. H., Syracuse, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 925,796; June 22; Sp. p. 5687; Gaz. vol. 143; p. 985.
- Barr, J. H., assignor to Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 933,048; Sept. 7; Sp. p. 7; Gaz. vol. 146; p. 4.
- Barr, J. H., assignor to Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 942,583; Dec. 7; Sp. p. 1710; Gaz. vol. 149; p. 277.
- Barr, J. H., assignor to Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 943,643; Dec. 21; Sp. p. 3497; Gaz. vol. 149; p. 609.
- Barr, J. U., New York, N. Y., assignor of two-thirds to F. G. Elsbary, Huguenot Park, and one-third to L. Strueyer, New York, N. Y. Can. No. 912,526; Feb. 16; Sp. p. 3111; Gaz. vol. 139; p. 559.
- Barr, S. (See Barr, W. and S.)
- Barr, W. and S., Philadelphia, Pa. Seat-register. No. 921,342; May 11; Sp. p. 2576; Gaz. vol. 142; p. 444.
- Barranger, J. E., Philadelphia, Pa. Jar-closure. No. 922,240; May 18; Sp. p. 4417; Gaz. vol. 142; p. 767.
- Barranger, J. E., Philadelphia, Pa. Jar-closure. No. 928,098; July 13; Sp. p. 2879; Gaz. vol. 144; p. 492.
- Barratt, E. W., Cold Norton, near Maldon, England. Apparatus for pulling sugar or candy or other substances of a similar plastic nature. No. 929,374; July 27; Sp. p. 5573; Gaz. vol. 144; p. 977.
- Barratt, F. F., Clearfield, Pa. Sign. No. 917,988; Apr. 13; Sp. p. 2084; Gaz. vol. 141; p. 376.
- Barratt, W. T. (See Hurley and Barratt.)
- Barratt, W. T., Bennington, Vt., assignor, by mesne assignments, to A. Cooper, A. J. Cooper, and C. S. Kehoe, executors of C. Cooper, deceased. Circular-knitting machine. No. 917,989; Apr. 13; Sp. p. 2085; Gaz. vol. 141; p. 376.
- Barre, W., Cleveland, Ohio. Steam-turbine. No. 934,497; Sept. 21; Sp. p. 3075; Gaz. vol. 146; p. 536.
- Barrel Amusement Co. (See Huebner, J., assignor.)
- Barrell, W. L. (See Adams, W. H., assignor.)
- Barrell, W. L. (See Spencer and Hurst, assignors.)
- Barreto, V., Marlow, England. Electric ignition for internal-combustion engines. No. 932,239; Aug. 24; Sp. p. 5545; Gaz. vol. 145; p. 944.
- Barrett, A. (See Condon and Barrett.)
- Barrett, A. G. (See Rice and Barrett.)
- Barrett, A. M., assignor to J. R. Barrett, Chicago, Ill. Paper-punch. No. 909,739; Jan. 12; Sp. p. 2638; Gaz. vol. 138; p. 466.
- Barrett, C. F., Bridgeport, Conn. Portable vacuum-cleaner. No. 930,125; Aug. 3; Sp. p. 1064; Gaz. vol. 145; p. 171.
- Barrett, E., Portland, Oreg. Car-fender. No. 933,950; Sept. 14; Sp. p. 2009; Gaz. vol. 146; p. 331.
- Barrett, E. D., assignor to Flushovalve Company, New York, N. Y. Flush-valve. (Reissue.) No. 12,951; May 4; Sp. p. 1646; Gaz. vol. 142; p. 263.
- Barrett, E. E., La Grange, Ill. Loading and unloading apparatus. (Reissue.) No. 13,061; Dec. 28; Sp. p. 6407; Gaz. vol. 149; p. 1098.
- Barrett, H. G., and L. S. Alter, Wilmette; said Alter assignor of one-half to J. H. McElroy, Chicago, Ill. Convertible cushioned and non-cushioned seat. No. 912,781; Feb. 16; Sp. p. 3685; Gaz. vol. 139; p. 648.
- Barrett, J. A., New York, N. Y., assignor to American Telephone and Telegraph Company. System for nullifying inductive disturbances. No. 940,658; Nov. 23; Sp. p. 4908; Gaz. vol. 148; p. 840.
- Barrett, J. C., Youngstown, Ohio. Blast-furnace construction. No. 943,374; Dec. 14; Sp. p. 2884; Gaz. vol. 149; p. 485.
- Barrett, J. M., assignor of two-fifths to A. Borer, Fostoria, Ohio. Lock for cycles. No. 927,927; July 13; Sp. p. 2564; Gaz. vol. 144; p. 436.
- Barrett, J. R. (See Barrett, A. M., assignor.)
- Barrett, M. F. (See Smith, W. H., assignor.)
- Barrett, R., Palmyra, assignor of one-third to W. S. Lord and one-third to G. R. Kingston, Rochester, N. Y. Revolving teeter-board. No. 937,753; Oct. 26; Sp. p. 4487; Gaz. vol. 147; p. 779.
- Barrett, T., assignor of one-half to J. Richards, Maywood, Ill. Straightway valve. No. 940,577; Nov. 16; Sp. p. 4736; Gaz. vol. 148; p. 789.
- Barro, W. J., *et al.* (See Baker, O. O., assignor.)
- Barricelli, M., Rome, Italy. Making archetypes. No. 909,980; Jan. 19; Sp. p. 3124; Gaz. vol. 138; p. 578.
- Barrie, A. (See Harrington and Barrie.)
- Barrire, I. B., Waterbury, Conn. Floor-polishing machine. No. 926,232; June 29; Sp. p. 6611; Gaz. vol. 143; p. 1166.
- Barron, M. B., Camden, Me. Cover for cream-bowls. No. 909,052; Jan. 5; Sp. p. 1266; Gaz. vol. 138; p. 203.
- Barron, M. K., *et al.* (See Krutsch, W. W., assignor.)
- Barron, N. J., Linden, Tex. Animal-trap. No. 909,981; Jan. 19; Sp. p. 3125; Gaz. vol. 138; p. 578.
- Barron, S. (See Farnell and Barron.)
- Barron, W. J., New York, assignor to Densmore Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 913,093; Feb. 23; Sp. p. 4266; Gaz. vol. 139; p. 773.
- Barron, W. J., New York, assignor to Densmore Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 917,745; Apr. 13; Sp. p. 1545; Gaz. vol. 141; p. 293.
- Barron, W. J., New York, N. Y., and H. W. Merritt, Springfield, Mass., assignors to Densmore Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 943,644; Dec. 21; Sp. p. 3499; Gaz. vol. 149; p. 610.
- Barrow, J., Windfall, Ind. Can-labeling machine. No. 924,129; June 8; Sp. p. 2215; Gaz. vol. 143; p. 370.
- Barrows, C. S. S., Ipava, Ill. Fracture apparatus for use with invalid-beds. No. 923,317; June 1; Sp. p. 485; Gaz. vol. 143; p. 69.
- Barrows, J. R., Los Angeles, Cal. Lawn and garden hose holder. No. 916,255; Mar. 23; Sp. p. 5279; Gaz. vol. 140; p. 934.
- Barrows, R. Y. (See Bohl, E. L., assignor.)
- Barry, H., Chicago, Ill. Stamp-distributing device. No. 909,861; Jan. 19; Sp. p. 2872; Gaz. vol. 138; p. 536.
- Barry, H., Chicago, Ill. Package-tie. No. 912,782; Feb. 16; Sp. p. 3688; Gaz. vol. 139; p. 648.
- Barry, H., Chicago, Ill. Toy. No. 930,918; Aug. 10; Sp. p. 2671; Gaz. vol. 145; p. 457.
- Barry, J., Ocean View, Cal. Means for lubricating shafting. No. 919,679; Apr. 27; Sp. p. 5844; Gaz. vol. 141; p. 1003.
- Barry, J., Ocean View, Cal. Trolley-wheel holder. No. 930,336; Aug. 10; Sp. p. 1442; Gaz. vol. 145; p. 263.
- Barry, J. W., Everett, Mass. Cock or faucet. No. 925,153; June 15; Sp. p. 4382; Gaz. vol. 143; p. 748.
- Barry, N., Jr., Muscatine, Iowa. Button-cutting tool. No. 916,407; Mar. 30; Sp. p. 5579; Gaz. vol. 140; p. 1011.
- Barry, R. L., *et al.* (See Belsion, R. W., assignor.)
- Barry, T. D. (See Hadsell, D. H., assignor.)
- Barry, T. D. (See Smith and Hadsell, assignors.)
- Barry, W., Oswego, N. Y. Mail-distributing apparatus. No. 919,809; Apr. 27; Sp. p. 6083; Gaz. vol. 141; p. 1046.
- Barry, W., Oswego, N. Y. Mail-distributing apparatus. No. 919,810; Apr. 27; Sp. p. 6106; Gaz. vol. 141; p. 1046.
- Barry, W., Oswego, N. Y. Mail-marking machine. No. 940,496; Nov. 16; Sp. p. 4556; Gaz. vol. 148; p. 762.
- Barry and Zecher Co. (See Zecher, F. J., assignor.)
- Barschall, M. (See Wolman, K. H., assignor.)
- Barschall, M. (See Wolman and Diamond, assignors.)
- Barschall, M., New York, N. Y. Rail-joint. No. 942,127; Dec. 7; Sp. p. 215; Gaz. vol. 149; p. 33.
- Barschow, G. H., assignor to American Metal Wheel and Auto Company, Toledo, Ohio. Metal wheel. No. 929,650; Aug. 3; Sp. p. 8; Gaz. vol. 145; p. 4.
- Barstow, E. O., assignor to Dow Chemical Company, Midland, Mich. Manufacturing benzoate. No. 939,584; Nov. 9; Sp. p. 2516; Gaz. vol. 148; p. 415.
- Barstow, E. O., assignor to Dow Chemical Company, Midland, Mich. Manufacturing benzoate. No. 939,940; Nov. 9; Sp. p. 3277; Gaz. vol. 148; p. 541.
- Barstow, E. O., assignor to Dow Chemical Company, Midland, Mich. Manufacturing benzoate. No. 939,941; Nov. 9; Sp. p. 3280; Gaz. vol. 148; p. 541.
- Bartel, C., Brookfield, Wis. Grass-line trimmer for railways. No. 913,348; Feb. 23; Sp. p. 4791; Gaz. vol. 139; p. 858.
- Bartel, O., New York, N. Y. Valve mechanism. No. 914,913; Mar. 9; Sp. p. 2629; Gaz. vol. 140; p. 440.
- Bartel, O., New York, N. Y. Valve mechanism. No. 930,919; Aug. 10; Sp. p. 2675; Gaz. vol. 145; p. 458.
- Bartel, R. F., Bayonne, N. J. Garment-supporter. No. 912,060; Feb. 9; Sp. p. 2135; Gaz. vol. 139; p. 368.
- Bartel, W. P. (See Havener, A. R., assignor.)
- Bartel, W. P., Waltham, Mass., assignor to Judson L. Thomson M'fg. Co. Rivet. No. 938,812; Nov. 2; Sp. p. 776; Gaz. vol. 148; p. 125.
- Bartell, M. J. (See Farnsworth and Bartell.)
- Bartels, C., assignor to Mosler Safe Company, Hamilton, Ohio. Safe-door cam. No. 938,545; Nov. 2; Sp. p. 239; Gaz. vol. 148; p. 35.



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- Bartels, C. and O., Schwaan, Germany. Flexible ruler for drawing curves. No. 940,118; Nov. 16; Sp. p. 3711; Gaz. vol. 148; p. 632.
- Bartels, E., Elma, Iowa. Tool. No. 937,754; Oct. 26; Sp. p. 4490; Gaz. vol. 147; p. 779.
- Bartels, M. A., Watchung, N. J. Forming tips of shoe-laces. No. 925,266; June 15; Sp. p. 4589; Gaz. vol. 143; p. 784.
- Bartels, O. (See Bartels, C. and O.)
- Bartelstone, L., New York, N. Y. Plate-glass clamp. No. 927,092; July 6; Sp. p. 832; Gaz. vol. 144; p. 132.
- Bartelt, F. L., Bristol, England. Attachment for washing-machines. No. 933,358; Sept. 7; Sp. p. 732; Gaz. vol. 146; p. 114.
- Barth, A., assignor to R. J. Rose, Milwaukee, Wis. Slicing-machine. No. 910,635; Jan. 26; Sp. p. 4529; Gaz. vol. 138; p. 825.
- Barth, G. W., Ludwigsburg, Germany. Apparatus for roasting grains and seeds. No. 937,914; Oct. 26; Sp. p. 4826; Gaz. vol. 147; p. 834.
- Barth, J. J., Jamestown, N. Y. Finishing-tool. No. 936,695; Oct. 12; Sp. p. 2310; Gaz. vol. 147; p. 383.
- Barthel, O. E., Detroit, Mich. Explosive-engine. No. 908,641; Jan. 6; Sp. p. 445; Gaz. vol. 138; p. 72.
- Barthelmes, R., Zella St. Blasü, Germany. Instrument for measuring the cross-section of rails, &c. No. 941,297; Nov. 23; Sp. p. 6295; Gaz. vol. 148; p. 1053.
- Bartholomae, F., assignor to John Kroder & Henry Reubel Co., New York, N. Y. Curtain-pole ring. No. 922,241; May 18; Sp. p. 4418; Gaz. vol. 142; p. 767.
- Bartholomae, W., assignor to himself and H. Zimmermann, New York, N. Y. Sounding toy. No. 942,610; Dec. 7; Sp. p. 1208; Gaz. vol. 149; p. 197.
- Bartholomäus, R., assignor of one-half to H. H. Petit, Dresden, Germany. Cutting mechanism for tubes and rods. No. 911,107; Feb. 2; Sp. p. 161; Gaz. vol. 139; p. 30.
- Bartholomew, C. M., assignor of one-half to J. A. Radebaugh, Columbus, Ohio. Hoop-projecting device. No. 912,059; Feb. 9; Sp. p. 2134; Gaz. vol. 139; p. 368.
- Bartholomew, C. M. and T., Columbus, Ohio. Hoop-projecting device. No. 935,455; Sept. 28; Sp. p. 4979; Gaz. vol. 146; p. 880.
- Bartholomew, G. R., Hannibal, Mo. Sack-turner. No. 925,267; June 15; Sp. p. 4590; Gaz. vol. 143; p. 784.
- Bartholomew, J. B., Peoria, Ill., assignor, by mesne assignments, to Avery Company. Gearing for traction-engines. No. 929,183; July 27; Sp. p. 5135; Gaz. vol. 144; p. 912.
- Bartholomew, J. P., Bristol, assignor to Stanley Rule & Level Company, New Britain, Conn. Tool-chuck. No. 927,478; July 13; Sp. p. 1589; Gaz. vol. 144; p. 286.
- Bartholomew, J. S., Occidental, Cal. Life-saving and swimming clothing. No. 920,246; May 4; Sp. p. 324; Gaz. vol. 142; p. 50.
- Bartholomew, P. L., Aurora, Ill. Paper-bag-manufacturing machine. No. 918,815; Apr. 20; Sp. p. 3848; Gaz. vol. 141; p. 681.
- Bartholomew, P. L., Aurora, Ill. Paper-bag-manufacturing machine. No. 929,273; July 27; Sp. p. 5325; Gaz. vol. 144; p. 941.
- Bartholomew, T. (See Bartholomew, C. M. and T.)
- Bartholomew, W. (See Wilcox and Bartholomew.)
- Bartholomew, W., Chicago, Ill. Dry-room hanger. No. 924,722; June 15; Sp. p. 3503; Gaz. vol. 143; p. 602.
- Bartholomew, W., Chicago, Ill. Hanger for dry-rooms. No. 924,723; June 15; Sp. p. 3505; Gaz. vol. 143; p. 602.
- Bartholomew, W., Chicago, Ill., assignor to Troy Laundry Machinery Company, Limited, Troy, N. Y. Treadle mechanism. No. 940,659; Nov. 23; Sp. p. 4911; Gaz. vol. 148; p. 841.
- Bartholomew, W., Chicago, Ill., assignor to Troy Laundry Machinery Company, Limited, Troy, N. Y. Ironing-press. No. 940,660; Nov. 23; Sp. p. 4914; Gaz. vol. 148; p. 841.
- Bartholomew, W., assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Combined dry-room conveyer. No. 940,661; Nov. 23; Sp. p. 4920; Gaz. vol. 148; p. 841.
- Bartholomew, W., assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Centrifugal extractor. No. 940,662; Nov. 23; Sp. p. 4921; Gaz. vol. 148; p. 842.
- Bartholomew, W., assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Bearing for sterilizing-washers. No. 940,663; Nov. 23; Sp. p. 4925; Gaz. vol. 148; p. 842.
- Bartholomew, W. O. (See Martin, Bartholomew, and Schaaf.)
- Bartl, F., Far Rockaway, N. Y. Spark-plug. No. 918,726; Apr. 20; Sp. p. 3682; Gaz. vol. 141; p. 653.
- Bartlett, A. B., Salem, W. Va. Whip-lock. No. 927,316; July 6; Sp. p. 1247; Gaz. vol. 144; p. 205.
- Bartlett, A. J., Westbury-on-Trym, England. Boomerang. No. 925,445; June 22; Sp. p. 4937; Gaz. vol. 143; p. 872.
- Bartlett, A. W., Detroit, Mich. Pin-machine. No. 929,184; July 27; Sp. p. 5140; Gaz. vol. 144; p. 912.
- Bartlett, E. B., assignor to W. W. Kimball Company, Chicago, Ill. Self-playing piano. No. 936,851; Oct. 12; Sp. p. 2613; Gaz. vol. 147; p. 435.
- Bartlett, E. G., Tamworth, N. H. Rake-machine. No. 918,816; Apr. 20; Sp. p. 3861; Gaz. vol. 141; p. 681.
- Bartlett, F., *et al.* (See Huber, A. L., assignor.)
- Bartlett, F. D., Somerville, Mass. Packing for stuffing-boxes. No. 926,841; July 6; Sp. p. 280; Gaz. vol. 144; p. 45.
- Bartlett, G., Luton, England. Adjustable foot for ladders, steps, trestles, and the like. No. 913,452; Feb. 23; Sp. p. 5007; Gaz. vol. 139; p. 894.
- Bartlett, G. H., San Francisco, Cal. Tube and box. No. 934,266; Sept. 14; Sp. p. 2631; Gaz. vol. 146; p. 436.
- Bartlett, G. H., Boston, Mass., assignor to Enamel Concrete Company, Des Moines, Iowa. Ornamented molded concrete article. No. 932,092; Aug. 24; Sp. p. 5251; Gaz. vol. 145; p. 895.
- Bartlett, G. N. (See Laube, G. and H. R., assignors.)
- Bartlett, H., and A. P. MacCallum, Albuquerque, N. Mex. Non-detachable insulator. No. 937,140; Oct. 19; Sp. p. 3199; Gaz. vol. 147; p. 560.
- Bartlett, Hayward & Co. (See Morris, W. C., assignor.)
- Bartlett, Hayward & Co. (See Wagner, F. H., assignor.)
- Bartlett, K. W., assignor to Northern Water Softener Company, Madison, Wis. Liquid-treating apparatus. No. 926,842; July 6; Sp. p. 282; Gaz. vol. 144; p. 46.
- Bartlett, K. W., assignor to Northern Water Softener Company, Madison, Wis. Liquid-treating apparatus. No. 926,843; July 6; Sp. p. 287; Gaz. vol. 144; p. 46.
- Bartlett, L. G., Somerville, Mass. Pneumatic-despatch-tube apparatus. No. 919,304; Apr. 27; Sp. p. 5040; Gaz. vol. 141; p. 875.
- Bartlett, N. (See Laube, G. and H. R., assignors.)
- Bartlett, T. H., Los Angeles, Cal. Hair-tonic. No. 921,902; May 11; Sp. p. 1657; Gaz. vol. 142; p. 296.
- Bartley, C. B., Pittsburg, Pa. Sterilizing fluids. No. 930,023; Aug. 3; Sp. p. 845; Gaz. vol. 145; p. 136.
- Bartley, M., Pittsburg, Pa. Tie-plate. No. 921,062; May 11; Sp. p. 1963; Gaz. vol. 142; p. 348.
- Bartley, S. and W. O., Calhoun, Ill. Insulator. No. 915,406; Mar. 16; Sp. p. 3608; Gaz. vol. 140; p. 628.
- Bartley, W. O. (See Bartley, S. and W. O.)
- Bartling, R. A. (See Ziegler and Bartling.)
- Barto, W., Brewster, Kans. Draft attachment and evenner. No. 924,529; June 8; Sp. p. 3078; Gaz. vol. 143; p. 503.
- Bartok, P., Pittsburg, Pa. Wrench. No. 939,788; Nov. 9; Sp. p. 2957; Gaz. vol. 148; p. 487.
- Bartol, S. F., New York, N. Y. Pipe-threading device. No. 915,325; Mar. 16; Sp. p. 3448; Gaz. vol. 140; p. 601.
- Barton, A. W., East Hampton, Conn. Cigar-cutter. No. 911,804; Feb. 9; Sp. p. 1525; Gaz. vol. 139; p. 284.
- Barton, E., Ivyland, Pa. Toy tree-holder. No. 926,638; June 29; Sp. p. 7356; Gaz. vol. 143; p. 1298.
- Barton, E. H. R., Englewood, assignor of one-half to R. Carpenter, Hackensack, N. J. Speed-changing mechanism. No. 942,192; Dec. 7; Sp. p. 356; Gaz. vol. 149; p. 54.
- Barton, E. L., Chester, S. C. Vehicle-spring. No. 923,107; May 25; Sp. p. 6210; Gaz. vol. 142; p. 1076.
- Barton, F. M., Mahanood, Minn. Automatic drain and check valve. No. 932,427; Aug. 31; Sp. p. 5910; Gaz. vol. 145; p. 1030.
- Barton, H. L., Pittsburg, Pa., assignor to Westinghouse Machine Company. Elastic-fluid turbine. No. 927,093; July 6; Sp. p. 834; Gaz. vol. 144; p. 133.
- Barton, H. L., Pittsburg, Pa., assignor to Westinghouse Machine Company. Elastic-fluid turbine. No. 927,445; July 6; Sp. p. 1502; Gaz. vol. 144; p. 249.
- Barton, H. L., Pittsburg, Pa., assignor to Westinghouse Machine Company. Blade-holding means. No. 940,778; Nov. 23; Sp. p. 5188; Gaz. vol. 148; p. 831.
- Barton, J. W., Flint, Mich. Damper-actuator. No. 930,126; Aug. 3; Sp. p. 1067; Gaz. vol. 145; p. 172.
- Barton, J. W., Cleveland, Ohio. Steam-trap. No. 941,846; Nov. 30; Sp. p. 7489; Gaz. vol. 148; p. 1259.
- Barton, J. W., Cleveland, Ohio. Steam-trap. No. 941,847; Nov. 30; Sp. p. 7490; Gaz. vol. 148; p. 1259.
- Barton, L. E. Sr., Ravenna, Ohio. Railway-tie and rail-fastener. No. 924,415; June 8; Sp. p. 2855; Gaz. vol. 143; p. 466.
- Barton-Wright, E. W. (See Marino and Barton-Wright.)
- Bartos, M., and J. Braunstein, New York, N. Y. Ladder. No. 933,816; Sept. 14; Sp. p. 1740; Gaz. vol. 146; p. 289.
- Bartow, E. H., New York, N. Y. Coupon cutter and counter. No. 928,019; July 13; Sp. p. 2728; Gaz. vol. 144; p. 465.
- Bartow, T. J. (See Pricer and Bartow.)
- Bartow, T. J., Manzanola, Colo. Heater. No. 935,244; Sept. 28; Sp. p. 4565; Gaz. vol. 146; p. 812.
- Bartsch, P. H., Striegau, Germany. Hammer. No. 937,915; Oct. 26; Sp. p. 4827; Gaz. vol. 147; p. 834.
- Bartsch, W. F., Edgemoor, Del. Puzzle. No. 942,536; Dec. 7; Sp. p. 1065; Gaz. vol. 149; p. 173.
- Bartz, F., assignor to A. J. Deer Co., Hornell, N. Y. Meat-cutter. No. 930,920; Aug. 10; Sp. p. 2676; Gaz. vol. 145; p. 458.

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- Bartz, F., assignor to A. J. Deer Co., Hornell, N. Y. Meat-cutter. No. 930,921; Aug. 10; Sp. p. 2678; Gaz. vol. 145; p. 458.
- Baruch, S., and M. Dessauer, New York, N. Y. Strap-seal. No. 936,852; Oct. 12; Sp. p. 2613; Gaz. vol. 147; p. 436.
- Barwick, C. F., and W. J. Brennen, assignors of one-third to F. X. Loebel, Pittsburg, Pa. Square. No. 916,971; Apr. 6; Sp. p. 20; Gaz. vol. 141; p. 7.
- Barwis, S. E., Altoona, Pa. Sewer-pipe cleaner. No. 916,654; Mar. 30; Sp. p. 6090; Gaz. vol. 140; p. 1091.
- Bary, C. P., assignor to Société Anonyme des Voitures Electriques Védrine, Neuilly-sur-Seine, France. Field-magnet or the like. No. 910,892; Jan. 26; Sp. p. 5027; Gaz. vol. 138; p. 906.
- Bary, F. A., Newport, Ky. Self-linking proof-roller. No. 913,189; Feb. 23; Sp. p. 4471; Gaz. vol. 139; p. 805.
- Barz, F. H., Chicago, Ill. Polishing-machine. No. 914,378; Mar. 9; Sp. p. 1554; Gaz. vol. 140; p. 246.
- Barzee, F. S., Everett, Wash. Incubator. No. 934,652; Sept. 21; Sp. p. 3387; Gaz. vol. 146; p. 590.
- Bascom, C. P., assignor to Fayette R. Plumb, Incorporated, Philadelphia, Pa. Die-press. No. 931,006; Aug. 10; Sp. p. 2887; Gaz. vol. 145; p. 485.
- Bascone, D. C. (See Ross, E. A., assignor.)
- Basehore, D. H., Derry Church, assignor of one-half to D. Yingst, Hummelstown, Pa. Washing-machine. No. 917,990; Apr. 13; Sp. p. 2102; Gaz. vol. 141; p. 377.
- Basham, F. M., and J. O. Donaldson, Chualar, assignors to Southern Pacific Milling Company, San Francisco, Cal. Hoisting apparatus. No. 926,314; June 29; Sp. p. 6754; Gaz. vol. 143; p. 1191.
- Bashlin, W. B. M., Warren, Pa. Water-faucet. No. 937,221; Oct. 19; Sp. p. 3373; Gaz. vol. 147; p. 585.
- Bashore, J. E., and C. W. Jensen, Tippecanoe City, Ohio. Vise. No. 918,946; Apr. 20; Sp. p. 4145; Gaz. vol. 141; p. 725.
- Baskin, L., New York, N. Y. Electric igniter device. No. 927,704; July 13; Sp. p. 2089; Gaz. vol. 144; p. 362.
- Basle Chemical Works. (See Grob, A., assignor.)
- Bason, H. W., *et al.* (See Puryear, L., assignor.)
- Bassell, J. Y., and F. C. Blenkner, Columbus, Ohio. Gun-sight. No. 919,525; Apr. 27; Sp. p. 5528; Gaz. vol. 141; p. 949.
- Basset, L. F., Enghien, France. Electric battery. No. 913,936; Mar. 2; Sp. p. 582; Gaz. vol. 140; p. 93.
- Basset, E. S., Cleveland, Ohio. Time-recording device. No. 928,170; July 13; Sp. p. 3022; Gaz. vol. 144; p. 516.
- Bassett, F. H., Oakville, Conn. Curtain-fixture. No. 923,239; June 1; Sp. p. 243; Gaz. vol. 143; p. 41.
- Bassett, L. T., Salem, Mass. Explosive-engine. No. 916,972; Apr. 6; Sp. p. 21; Gaz. vol. 141; p. 7.
- Bassett, N. C., assignor to Allis-Chalmers Company, Milwaukee, Wis. Valve. No. 915,263; Mar. 16; Sp. p. 3326; Gaz. vol. 140; p. 581.
- Bassett, N. C., assignor to Allis-Chalmers Company, Milwaukee, Wis. Blade-fastening. No. 915,710; Mar. 16; Sp. p. 4244; Gaz. vol. 140; p. 731.
- Bassett, N. C., assignor to Allis-Chalmers Company, Milwaukee, Wis. Balancing-machine. No. 915,718; Mar. 16; Sp. p. 4265; Gaz. vol. 140; p. 734.
- Bassett, N. C., assignor to Allis-Chalmers Company, Milwaukee, Wis. Balancing-machine. No. 923,401; June 1; Sp. p. 664; Gaz. vol. 143; p. 97.
- Bassett, N. C., assignor to Allis-Chalmers Company, Milwaukee, Wis. Balancing-machine. No. 923,402; June 1; Sp. p. 665; Gaz. vol. 143; p. 97.
- Bassett, N. C., assignor to Allis-Chalmers Company, Milwaukee, Wis. Governor. No. 930,024; Aug. 3; Sp. p. 847; Gaz. vol. 145; p. 137.
- Bassett, N. C., assignor to Allis-Chalmers Company, Milwaukee, Wis. Governor. No. 939,656; Nov. 9; Sp. p. 2669; Gaz. vol. 148; p. 441.
- Bassett, N. C., Lynn, Mass., assignor to General Electric Company. Brush-holder. No. 930,337; Aug. 10; Sp. p. 1444; Gaz. vol. 145; p. 264.
- Bassford, L. C., Chicago, Ill. Car-sheathing. No. 932,367; Aug. 24; Sp. p. 5779; Gaz. vol. 145; p. 987.
- Bassford, W. K., Perth Amboy, assignor to J. P. Hall, East Orange, N. J. Carburetor. No. 935,833; Oct. 5; Sp. p. 501; Gaz. vol. 147; p. 71.
- Bassler, E., Chicago, Ill., assignor to Green Fuel Economizer Company, Matteawan, N. Y. Pressure-blower. No. 928,624; July 20; Sp. p. 3997; Gaz. vol. 144; p. 698.
- Bassler, E. M. (See Klumph and Bassler.)
- Bassler, E. M., Chicago, Ill. Massage apparatus. No. 944,252; Dec. 28; Sp. p. 4748; Gaz. vol. 149; p. 840.
- Bassler, E. M., assignor to C. Van Deventer & Company, Chicago, Ill. Pneumatic feeder. No. 930,127; Aug. 3; Sp. p. 1068; Gaz. vol. 145; p. 172.
- Bassler, H. J. (See Stallings, E. L., assignor.)
- Bastedo, W. J., Flint, Mich. Fire-alarm attachment. No. 934,878; Sept. 21; Sp. p. 3824; Gaz. vol. 146; p. 663.
- Bastian, A. H. (See Hacking and Bastian.)
- Bastian-Blessing Company. (See Bastian, C. L., assignor.)
- Bastian Brothers Company. (See Herbst, M., assignor.)
- Bastian, C. L., Chicago, Ill. Pump connection. No. 912,274; Feb. 16; Sp. p. 2579; Gaz. vol. 139; p. 475.
- Bastian, C. L., assignor to Bastian-Blessing Company, Chicago, Ill. Carbonating apparatus. No. 932,093; Aug. 24; Sp. p. 5254; Gaz. vol. 145; p. 896.
- Bastian, C. L., assignor to Bottlers Machinery Manufacturing Company, Chicago, Ill. Pipe-line system for breweries and bottling establishments. No. 934,879; Sept. 21; Sp. p. 3826; Gaz. vol. 146; p. 664.
- Bastian, C. L., assignor to Bottlers Machinery Manufacturing Company, Chicago, Ill. Delivering liquid. No. 934,956; Sept. 21; Sp. p. 3979; Gaz. vol. 146; p. 691.
- Bastian, F., assignor to W. Reclam, Stuttgart, Germany. Stop for phonographs. No. 916,973; Apr. 6; Sp. p. 23; Gaz. vol. 141; p. 8.
- Bastian, W. J., and F. Granitz, assignors to American Cutlery Company, Chicago, Ill. Cutlery-grinding machine. No. 910,350; Jan. 19; Sp. p. 3923; Gaz. vol. 138; p. 705.
- Bastian, W. J., and F. Granitz, assignors to American Cutlery Company, Chicago, Ill. Grinding-machine. No. 921,343; May 11; Sp. p. 2577; Gaz. vol. 142; p. 445.
- Batault, E., and A. Gardy, Geneva, Switzerland. Vehicle suspension. No. 913,349; Feb. 23; Sp. p. 4793; Gaz. vol. 139; p. 859.
- Batavia, H. (See Grether, J. L., assignor.)
- Batchelder, A. F., Schenectady, N. Y., assignor to General Electric Company. Car-truck. No. 919,305; Apr. 27; Sp. p. 5042; Gaz. vol. 141; p. 875.
- Batchelder, A. F., Schenectady, N. Y., assignor to General Electric Company. Insulating-joint. No. 922,556; May 25; Sp. p. 5064; Gaz. vol. 142; p. 899.
- Batchelder, E. P., Ashland, Oreg. Rail-chair. No. 909,519; Jan. 12; Sp. p. 2201; Gaz. vol. 138; p. 391.
- Batchelder, F. R., assignor to Mills Woven Cartridge Belt Company, Worcester, Mass. Cartridge belt or bandoleer. No. 920,413; May 4; Sp. p. 658; Gaz. vol. 142; p. 104.
- Batchelor, C. C., Baltimore, Md. Packing-case-sealing device. No. 936,289; Oct. 12; Sp. p. 1415; Gaz. vol. 147; p. 245.
- Batchelor, C. C., Baltimore, Md., assignor to C. B. Seal Company. Fastening and sealing device for pails. No. 922,557; May 25; Sp. p. 5065; Gaz. vol. 142; p. 899.
- Batchlor, L., Lawrenceburg, Ind. Handsaw. No. 920,414; May 4; Sp. p. 661; Gaz. vol. 142; p. 105.
- Batdorf, C. S., Brooklyn, N. Y. Keyhole-plug and guard therefor. No. 942,537; Dec. 7; Sp. p. 1068; Gaz. vol. 149; p. 173.
- Bateholts, C. (See Cannon, Young, and Bateholts.)
- Bateholts, C., Pittsfield, Mass. Spark-plug. No. 913,453; Feb. 23; Sp. p. 5008; Gaz. vol. 139; p. 895.
- Bateman, F. H., assignor to Bateman Manufacturing Company, Grenloch, N. J. Break-pin structure for cultivators. No. 929,539; July 27; Sp. p. 5852; Gaz. vol. 144; p. 1028.
- Bateman, G. E. (See Brooks and Bateman.)
- Bateman, H. A., New York, N. Y. Scarf-holder. No. 921,663; May 18; Sp. p. 3250; Gaz. vol. 142; p. 578.
- Bateman, L. H. (See Bateman, R. W. and L. H.)
- Bateman Manufacturing Company. (See Bateman, F. H., assignor.)
- Bateman Manufacturing Company. (See Kriebel, H. K., assignor.)
- Bateman Manufacturing Company. (See Willis, L., assignor.)
- Bateman, R. W. and L. H., Leeds, England. Wheel. No. 917,524; Apr. 6; Sp. p. 1113; Gaz. vol. 141; p. 194.
- Bates, A. (See Barclay and Bates.)
- Bates, A., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for cutting out thin sheet material, such as upper-leather for boots and shoes. No. 921,503; May 11; Sp. p. 2892; Gaz. vol. 142; p. 498.
- Bates, A., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Jack for shoe-machines. No. 933,738; Sept. 14; Sp. p. 1604; Gaz. vol. 146; p. 264.
- Bates, A., and H. P. Gamble, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 922,447; May 25; Sp. p. 4832; Gaz. vol. 142; p. 863.
- Bates, A. J., Sandusky, Ohio. Apparatus for blowing glass. No. 913,190; Feb. 23; Sp. p. 4472; Gaz. vol. 139; p. 805.
- Bates, A. M., Cleveland, Ohio. Machine for printing bags. No. 918,496; Apr. 20; Sp. p. 3131; Gaz. vol. 141; p. 575.
- Bates, A. M., Cleveland, Ohio. Printing bags. No. 918,497; Apr. 20; Sp. p. 3135; Gaz. vol. 141; p. 575.
- Bates, A. M., assignor to Bates Valve Bag Company, Cleveland, Ohio. Bag-crimping device. No. 918,495; Apr. 20; Sp. p. 3130; Gaz. vol. 141; p. 574.
- Bates, A. M., assignor to Bates Valve Bag Company, Cleveland, Ohio. Valve-bag. No. 921,664; May 18; Sp. p. 3251; Gaz. vol. 142; p. 578.



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 Bates, C. V., Bartlesville, Okla. Watchcase. No. 919,117; Apr. 20; Sp. p. 4459; Gaz. vol. 141; p. 779.  
 Bates, E. V., and R. B. Robinson, Lowell, Mass., assignors to Bates & Robinson Machine Company. Card-clothing. No. 922,448; May 25; Sp. p. 4838; Gaz. vol. 142; p. 864.  
 Bates, F. C., San Jose, Cal. Mail-box. No. 930,922; Aug. 10; Sp. p. 2680; Gaz. vol. 145; p. 459.  
 Bates, G. H. (See Westburg and Bates.)  
 Bates, G. M., Lebanon, Mo. Hoof-trimmer. No. 932,671; Aug. 31; Sp. p. 6449; Gaz. vol. 145; p. 1112.  
 Bates, H., Albany, assignor, by mesne assignments, to Underwood Typewriter Co., New York, N. Y. Time-controlled, coin-operated locking device for type-writer machines. (Reissue.) No. 12,967; June 1; Sp. p. 1591; Gaz. vol. 143; p. 238.  
 Bates, H. A., Middletown, Conn. Sewing-machine shuttle. No. 908,833; Jan. 5; Sp. p. 841; Gaz. vol. 138; p. 132.  
 Bates, H. H., and F. Adam, Joliet, Ill. Electrolytic apparatus. No. 944,650; Dec. 28; Sp. p. 5643; Gaz. vol. 149; p. 979.  
 Bates, L. W., Chicago, Ill. Dredging-pipe joint. No. 922,075; May 18; Sp. p. 4078; Gaz. vol. 142; p. 713.  
 Bates & Robinson Machine Company. (See Bates and Robinson, assignors.)  
 Bates, S. L., assignor of one-half to J. E. Hewitt, Denver, Colo. Chopping-knife. No. 935,576; Sept. 28; Sp. p. 5252; Gaz. vol. 146; p. 921.  
 Bates Valve Bag Company. (See Bates, A. M., assignor.)  
 Bates, W. H., Battle Creek, Mich. Clip for attaching springs to cross-bars. No. 916,974; Apr. 6; Sp. p. 24; Gaz. vol. 141; p. 8.  
 Bates, W. H., Detroit, Mich. Clamp for attaching springs to corrugated cross-bars. No. 926,381; June 29; Sp. p. 6888; Gaz. vol. 143; p. 1212.  
 Bates, W. M., W. C. Knight, and J. M. Gast, Huntsville, Ala. Churn stand and power. No. 935,834; Oct. 5; Sp. p. 502; Gaz. vol. 147; p. 72.  
 Bath, B. (See Hornberger and Bath.)  
 Bathrick, C. E., assignor to F. C. Austin, Chicago, Ill. Mixer feed device. No. 920,415; May 4; Sp. p. 664; Gaz. vol. 142; p. 105.  
 Bathrick, C. E., assignor to F. C. Austin, Chicago, Ill. Concrete-mixer. No. 920,416; May 4; Sp. p. 669; Gaz. vol. 142; p. 106.  
 Bathrick, G. H., assignor to Nichols and Shepard Company, Battle Creek, Mich. Pneumatic straw-stacker. No. 941,606; Nov. 30; Sp. p. 6945; Gaz. vol. 148; p. 1175.  
 Batke, C. and G. F., Ferry Point, Alberta, Canada. Mower-guard sharpener. No. 914,914; Mar. 9; Sp. p. 2629; Gaz. vol. 140; p. 441.  
 Batke, G. F. (See Batke, C. and G. F.)  
 Batson, J. A., Lakeview, Tex. Safety-stirrur. No. 914,630; Mar. 9; Sp. p. 2047; Gaz. vol. 140; p. 348.  
 Batson, J. A., Lakeview, Tex. Plov attachment. No. 927,479; July 13; Sp. p. 1590; Gaz. vol. 144; p. 286.  
 Batt, F., North Tonawanda, N. Y. Fare-recorder. No. 939,789; Nov. 9; Sp. p. 2959; Gaz. vol. 140; p. 487.  
 Battee, H. S., assignor to Shock & Hay Loader Co., Minneapolis, Minn. Bundle-loader. No. 930,719; Aug. 10; Sp. p. 2249; Gaz. vol. 145; p. 391.  
 Battenberg, M. H. V., Chicago, Ill. Seal. No. 925,416; June 15; Sp. p. 4858; Gaz. vol. 143; p. 830.  
 Batter, F., St. Johns, Ore. Portable foot and body warmer. No. 912,527; Feb. 16; Sp. p. 3112; Gaz. vol. 139; p. 559.  
 Battersby, C. (See Battersby, J., assignor.)  
 Battersby, J., assignor of one-half to C. Battersby, Chicago, Ill. Vessel. No. 914,693; Mar. 9; Sp. p. 2194; Gaz. vol. 140; p. 368.  
 Battery Company. (See Gugler, J. H., assignor.)  
 Battey, S. B., New York, N. Y. Pocket-lighter. No. 908,728; Jan. 5; Sp. p. 637; Gaz. vol. 138; p. 99.  
 Battle, H. B. (See Mills, J. E., assignor.)  
 Battu, L. P., Chicago, Ill. Steam-regenerative apparatus. No. 925,797; June 22; Sp. p. 5691; Gaz. vol. 143; p. 986.  
 Battanyan, L., L. Hlavacs, and M. Kota, Johnstown, Pa. Agricultural implement. No. 917,236; Apr. 6; Sp. p. 559; Gaz. vol. 141; p. 98.  
 Batzer, G. J., Cleveland, Ohio. Pulley and rope or cable holder. No. 916,091; Mar. 23; Sp. p. 4977; Gaz. vol. 140; p. 882.  
 Baudot, J. M., Tourcoing, France. Freeing raw wool from its yolk and grease by electrical means. No. 914,368; Mar. 2; Sp. p. 1528; Gaz. vol. 140; p. 236.  
 Bauer, A. F., Kansas City, Mo. Burner. No. 913,803; Mar. 2; Sp. p. 263; Gaz. vol. 140; p. 44.  
 Bauer & Black. (See Shaw, H. C., assignor.)  
 Bauer & Black. (See Toles, J. K., assignor.)  
 Bauer, C., Pittsburg, Pa. Rolling screen. No. 930,923; Aug. 10; Sp. p. 2681; Gaz. vol. 145; p. 459.  
 Bauer, C. D., Springfield, Ohio. Apparatus for separating oil from ammonia in refrigerating systems. No. 930,128; Aug. 3; Sp. p. 1071; Gaz. vol. 145; p. 172.  
 Bauer, E. H., assignor to Simplex Railway Appliance Company, Chicago, Ill. Brake-beam. No. 921,344; May 11; Sp. p. 2585; Gaz. vol. 142; p. 445.  
 Bauer, F., St. Louis, Mo. Liquid-cooling apparatus. No. 927,765; July 13; Sp. p. 2210; Gaz. vol. 144; p. 382.  
 Bauer, F., St. Louis, Mo. Liquid-cooling apparatus. No. 927,766; July 13; Sp. p. 2211; Gaz. vol. 144; p. 383.  
 Bauer, F., West Orange, N. J. Hat-dyeing apparatus. No. 938,738; Nov. 2; Sp. p. 622; Gaz. vol. 148; p. 98.  
 Bauer, G., Akron, Ohio. Mold. No. 912,528; Feb. 16; Sp. p. 3115; Gaz. vol. 139; p. 560.  
 Bauer, G. S., Bally, Pa. Envelop. No. 936,077; Oct. 5; Sp. p. 1013; Gaz. vol. 147; p. 153.  
 Bauer, H., *et al.* (See Taylor, W. H., assignor.)  
 Bauer, H., Budapest, Austria-Hungary. Bolt-retainer. No. 937,039; Oct. 19; Sp. p. 2995; Gaz. vol. 147; p. 526.  
 Bauer, H. N. (See Bauer, I. O. and H. N.)  
 Bauer, I., assignor to New England Enameling Company, Middletown, Conn. Cooking utensil. No. 926,163; June 29; Sp. p. 6442; Gaz. vol. 143; p. 1142.  
 Bauer, I., assignor to New England Enameling Company, Middletown, Conn. Milk-warmer. No. 944,307; Dec. 28; Sp. p. 4877; Gaz. vol. 149; p. 859.  
 Bauer, I., and C. Brown, assignors to New England Enameling Co., Middletown, Conn. Churn. No. 908,729; Jan. 5; Sp. p. 640; Gaz. vol. 138; p. 99.  
 Bauer, I. O. and H. N., Cincinnati, Ohio. Valve for carriage-tops. No. 916,526; Mar. 30; Sp. p. 5851; Gaz. vol. 140; p. 1050.  
 Bauer, M. C., Toledo, Ohio. Wagon-body. No. 931,719; Aug. 24; Sp. p. 4438; Gaz. vol. 145; p. 773.  
 Bauer Non-Collapsible Wheel Company. (See Bauer, W. J., assignor.)  
 Bauer, R., Leipzig, assignor of one-half to R. Schiller, Plauen, Vogtland, Germany. Corrodible groundwork for lace. No. 917,402; Apr. 6; Sp. p. 898; Gaz. vol. 141; p. 155.  
 Bauer, W., Vohwinkel, and A. Herre, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Tribromindigo and making same. No. 937,040; Oct. 19; Sp. p. 2997; Gaz. vol. 147; p. 526.  
 Bauer, W., Vohwinkel, and A. Herre, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Tetrabromindigo and making same. No. 937,041; Oct. 19; Sp. p. 2998; Gaz. vol. 147; p. 526.  
 Bauer, W. J., assignor to Bauer Non-Collapsible Wheel Company, New York, N. Y. Automobile-tire. No. 944,308; Dec. 28; Sp. p. 4879; Gaz. vol. 149; p. 860.  
 Bauer, W. J., assignor to Bauer Non-Collapsible Wheel Company, New York, N. Y. Vehicle-wheel. No. 944,309; Dec. 28; Sp. p. 4881; Gaz. vol. 149; p. 860.  
 Baughman, C. O., assignor to W. J. Frank, Akron, Ohio. Cushion-tire. No. 940,919; Nov. 23; Sp. p. 5468; Gaz. vol. 148; p. 927.  
 Baum, A. G., assignor to J. A. Holzman, Kansas City, Mo. Water-motor. No. 911,697; Feb. 9; Sp. p. 1344; Gaz. vol. 139; p. 250.  
 Baum, C. M., Newark, N. J. Collapsible sunshade for hats and the like. No. 913,937; Mar. 2; Sp. p. 584; Gaz. vol. 140; p. 93.  
 Baum & Co., Firm of F. (See Baum, F., assignor.)  
 Baum, D., Jr., Omaha, Nebr. Reinforcing-bar for concrete structures. No. 944,589; Dec. 28; Sp. p. 5532; Gaz. vol. 149; p. 959.  
 Baum, F., Paris, France. Ophthalmoscope. No. 943,728; Dec. 21; Sp. p. 3668; Gaz. vol. 149; p. 637.  
 Baum, F., assignor to Firm of F. Baum & Co., Rorschach, Switzerland. Automatic winding-frame. No. 918,116; Apr. 13; Sp. p. 2353; Gaz. vol. 141; p. 421.  
 Baum, J. B., assignor of one-sixth to T. P. McGuire, one-sixth to P. Moesser, one-sixth to A. A. Miller, one-twelfth to J. A. McCulloch, one-twelfth to W. E. Rhinhardt, and one-twelfth to C. F. Gibbs, Grand Junction, Colo. Dirigible headlight. No. 936,211; Oct. 5; Sp. p. 1267; Gaz. vol. 147; p. 193.  
 Bauman, G. C., Chicago, Ill. Paper trimming and pasting machine. No. 929,274; July 27; Sp. p. 5345; Gaz. vol. 144; p. 942.  
 Baumann, G. A., Chicago, Ill. Garment. No. 910,485; Jan. 26; Sp. p. 4214; Gaz. vol. 138; p. 776.  
 Baumer, M., Nuremberg, Germany. Telephone system. No. 928,171; July 13; Sp. p. 3024; Gaz. vol. 144; p. 516.  
 Baumgarten, A., deceased, Freeport, Ill.; J. Baumgarten, executrix. Cork-puller. No. 920,008; Apr. 27; Sp. p. 6508; Gaz. vol. 141; p. 1111.  
 Baumgarten, J., executrix. (See Baumgarten, A.)  
 Baumgarten, J. C., Schulenburg, Tex. Harrow. No. 942,879; Dec. 14; Sp. p. 1798; Gaz. vol. 149; p. 318.  
 Baumgartner, C. B., Rochelle, Ill. Gate. No. 915,407; Mar. 16; Sp. p. 3610; Gaz. vol. 140; p. 628.  
 Baumgartner, I., Latham, Kans. Automatic drinking-fountain. No. 937,042; Oct. 19; Sp. p. 2999; Gaz. vol. 147; p. 526.  
 Baumgartner, J., Nashville, Tenn. Furniture. No. 911,934; Feb. 9; Sp. p. 1778; Gaz. vol. 139; p. 327.  
 Baumgartner-Mica, H., Basel, Switzerland. Flexible friction-coupling. No. 943,804; Dec. 21; Sp. p. 3816; Gaz. vol. 149; p. 663.  
 Baumwart, A. C., assignor of one-half to F. T. Smallwood, Canute, Okla. Rural mail-box. No. 911,935; Feb. 9; Sp. p. 1779; Gaz. vol. 139; p. 327.  
 Baur, A. J., Erie, Pa. Shears. No. 938,630; Nov. 2; Sp. p. 416; Gaz. vol. 148; p. 63.  
 Baur, O., assignor to Liquid Carbonic Company, Chicago, Ill. Draft-arm. No. 921,345; May 11; Sp. p. 2586; Gaz. vol. 142; p. 445.

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- Baur, W. H., New York, N. Y. Check printer and recorder. No. 935,453; Sept. 28; Sp. p. 4974; Gaz. vol. 146; p. 879.
- Bauroth, L., Toledo, Ohio. Clutch. No. 924,306; June 8; Sp. p. 2650; Gaz. vol. 143; p. 431.
- Bauroth, L., Toledo, Ohio. Adjustable eccentric. No. 924,307; June 8; Sp. p. 2653; Gaz. vol. 143; p. 431.
- Bauroth, W. J., Columbus, Ohio, assignor, by mesne assignments, to Jeffrey Manufacturing Company. Armature for electric machines; No. 927,209; July 6; Sp. p. 1053; Gaz. vol. 144; p. 170.
- Bausch, G., Syracuse, N. Y. Spring-bow for eyeglasses. No. 917,837; Apr. 13; Sp. p. 1756; Gaz. vol. 141; p. 323.
- Bausch & Lomb Optical Co. (See Patterson, W. L., assignor.)
- Bausch & Lomb Optical Company. (See Bausch, W., assignor.)
- Bausch & Lomb Optical Company. (See Kellner, G. A. H., assignor.)
- Bausch & Lomb Optical Company. (See Nagy, D. von, assignor.)
- Bausch, W., assignor, by mesne assignments, to Bausch & Lomb Optical Company, Rochester, N. Y. Making bifocal lenses. No. 930,826.
- Aug. 10; Sp. p. 2468; Gaz. vol. 145; p. 427.
- Bausch, W. H., assignor to New England Roller Grate Company, Springfield, Mass. Furnace-grate. No. 940,849; Nov. 23; Sp. p. 5334; Gaz. vol. 148; p. 904.
- Bausher, T. D., Reading, Pa. Fuel-pan. No. 927,705; July 13; Sp. p. 2090; Gaz. vol. 144; p. 363.
- Bausman, A. L., Chicopee, assignor to Confectioners' Machinery & Manufacturing Company, Springfield, Mass. Plaque-stretching machine. No. 927,928; July 13; Sp. p. 2566; Gaz. vol. 144; p. 437.
- Bausman, A. L., assignor to Confectioners' Machinery & Manufacturing Company, Springfield, Mass. Plaque-cleaning machine. No. 928,730; July 20; Sp. p. 4208; Gaz. vol. 144; p. 733.
- Bausmith, W. T., Bellevue, Ky., assignor to Victor Safe & Lock Company, Cincinnati, Ohio. Means used for casting safe-knobs. No. 915,820; Mar. 23; Sp. p. 4474; Gaz. vol. 140; p. 793.
- Baust, J., New York, N. Y. Game apparatus. No. 909,520; Jan. 12; Sp. p. 2202; Gaz. vol. 138; p. 391.
- Bavay, A. J. F. de, Kew, Victoria, Australia. Apparatus for separating ores by flotation. No. 912,783; Feb. 16; Sp. p. 3690; Gaz. vol. 139; p. 648.
- Bave, E. B., Bayonne, N. J. Safeguard for window-glasses. No. 942,955; Dec. 14; Sp. p. 1986; Gaz. vol. 149; p. 344.
- Bawden, W., *et al.* (See Renaud, T. H., assignor.)
- Bawden, W., and A. R. Thomas, St. Louis, Mo.; said Thomas assignor to Commonwealth Steel Company. Draft-gear for locomotive engines and tenders. No. 909,053; Jan. 5; Sp. p. 1266; Gaz. vol. 138; p. 203.
- Baxendale, J. (See Bond and Baxendale.)
- Baxter, A. W. (See Stark and Baxter.)
- Baxter, B. A., Mansfield, Ohio. Stove-door. No. 944,475; Dec. 28; Sp. p. 5244; Gaz. vol. 149; p. 918.
- Baxter, D., New York, N. Y. Bottle and jar stopper. No. 932,948; Aug. 31; Sp. p. 6996; Gaz. vol. 145; p. 1202.
- Baxter, D. F., and A. S. Beattie, Troy, N. Y. Horseshoe-calk. No. 928,927; July 27; Sp. p. 4609; Gaz. vol. 144; p. 827.
- Baxter, H. C., Kent, Ohio. Feeding device for cement-mixers. No. 942,051; Dec. 7; Sp. p. 15; Gaz. vol. 149; p. 5.
- Baxter, R. M., Hinsdale, Ill. Water-filter. No. 915,821; Mar. 23; Sp. p. 4476; Gaz. vol. 140; p. 793.
- Baxter, T. J., Bobbin, Tex. Weed-turning attachment for plows. No. 941,298; Nov. 23; Sp. p. 6297; Gaz. vol. 148; p. 1053.
- Baxter, W., Jr., Jersey City, N. J. Pneumatic hammer. No. 935,634; Oct. 5; Sp. p. 13; Gaz. vol. 147; p. 4.
- Bay State Optical Company. (See Clulee, S. J., assignor.)
- Bayard, E., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 918,486; Apr. 13; Sp. p. 3090; Gaz. vol. 141; p. 542.
- Bayard, E., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Rough-rounding and channeling machine. No. 937,504; Oct. 19; Sp. p. 4000; Gaz. vol. 147; p. 679.
- Bayer, F. X., St. Louis, Mo. Boiler-cleaner. No. 919,680; Apr. 27; Sp. p. 5844; Gaz. vol. 141; p. 1003.
- Bayer, W. F., assignor to Chase & Baker Company, Buffalo, N. Y. Automatic musical instrument. No. 921,346; May 11; Sp. p. 2588; Gaz. vol. 142; p. 446.
- Bayer, W. F., assignor to Chase & Baker Company, Buffalo, N. Y. Autopiano. No. 926,921; July 6; Sp. p. 453; Gaz. vol. 144; p. 73.
- Bayles, W. H., New York, N. Y. Loose-leaf book. No. 944,653; Dec. 28; Sp. p. 5651; Gaz. vol. 149; p. 980.
- Bayless, F., assignor to Automatic Safety Device Company, Springfield, Ohio. Railway-switch. No. 942,996; Dec. 14; Sp. p. 2082; Gaz. vol. 149; p. 358.
- Bayless, P. A., Oklahoma, Okla. Automatic musical instrument. No. 943,909; Dec. 21; Sp. p. 4038; Gaz. vol. 149; p. 700.
- Bayless, P. A., and A. C. Hein, Oklahoma, Okla. Cleaning device. No. 929,746; Aug. 3; Sp. p. 237; Gaz. vol. 145; p. 41.
- Bayless, P. A., and C. F. Redman, Oklahoma, Okla. Egg-separator. No. 940,119; Nov. 16; Sp. p. 3712; Gaz. vol. 148; p. 632.
- Bayley, C. H., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Mallet. No. 912,784; Feb. 16; Sp. p. 3691; Gaz. vol. 139; p. 649.
- Bayley, E. A., Dexter, N. Y. Pulp-screen-plate fastener. No. 918,261; Apr. 13; Sp. p. 2649; Gaz. vol. 141; p. 469.
- Bayliss, H. L., Chicago, Ill. Trolley-wheel. No. 942,767; Dec. 7; Sp. p. 1520; Gaz. vol. 149; p. 249.
- Baylis, J. R., Lockport, N. Y. Digging implement. No. 913,350; Feb. 23; Sp. p. 4795; Gaz. vol. 139; p. 859.
- Bayliss, E. B., Dayton, Ohio. Button link or fastener. No. 926,383; June 29; Sp. p. 6891; Gaz. vol. 143; p. 1213.
- Bayliss, T. R., Northfield, near Birmingham, W. R. Hodgkinson, Blackheath, J. H. Hardcastle, Lee, A. H. Coote, Westcombe Park, and R. A. E. Payne, Edgbaston, near Birmingham, assignors to Kings Norton Metal Company Limited, London, England. Removal of metallic plating, coating, or fouling from metallic or other surfaces. No. 908,937; Jan. 5; Sp. p. 1033; Gaz. vol. 138; p. 166.
- Baylor, A. K., London, England. Route or destination indicator for tram-cars or the like. No. 916,256; Mar. 23; Sp. p. 5281; Gaz. vol. 140; p. 934.
- Baylor, A. S., and C. W. Knouff, Wabash, Ind. School-desk attachment. No. 927,480; July 13; Sp. p. 1592; Gaz. vol. 144; p. 287.
- Baylor, C. A., Laporte, Ind., assignor to Great Western Manufacturing Company. Coaster-brake. No. 942,479; Dec. 7; Sp. p. 946; Gaz. vol. 149; p. 153.
- Baynard, W. H., Boston, Mass., assignor to A. E. Little & Company, Lynn, Mass. Shoe and shank-piece therefor. No. 922,379; May 18; Sp. p. 4676; Gaz. vol. 142; p. 811.
- Baynard, W. H., Boston, assignor to A. E. Little & Company, Lynn, Mass. Shoe tree or form. No. 941,353; Nov. 30; Sp. p. 6411; Gaz. vol. 148; p. 1093.
- Bayne, E. D. C., and L. A. Subers, Cleveland, Ohio. Reinforced coated cord or thread. No. 918,414; Apr. 13; Sp. p. 2938; Gaz. vol. 141; p. 518.
- Bayne, E. D. C., and L. A. Subers, Cleveland, Ohio. Coating thread. No. 929,651; Aug. 3; Sp. p. 10; Gaz. vol. 145; p. 4.
- Bayne, E. D. C., and L. A. Subers, Cleveland, Ohio. Unwoven reinforced fabric. No. 940,779; Nov. 23; Sp. p. 5190; Gaz. vol. 148; p. 881.
- Baynes, T. H. (See Johnson, C. J. F., assignor.)
- Bayrer, L. G., Hartford, Conn. Variable-speed power transmission. No. 932,843; Aug. 31; Sp. p. 6800; Gaz. vol. 145; p. 1166.
- Bayrer, L. G., assignor to Billings & Spencer Company, Hartford, Conn. Drop-press and attachment therefor. No. 915,012; Mar. 9; Sp. p. 2782; Gaz. vol. 140; p. 471.
- Bays, W. W., Charlotte, N. C. Cotton-picker. No. 941,055; Nov. 23; Sp. p. 5761; Gaz. vol. 148; p. 972.
- Bazzett, E. A., Rochelle, Ill. Clock. No. 908,938; Jan. 5; Sp. p. 1035; Gaz. vol. 138; p. 166.
- Be Dell, W. A. (See Dougherty, Emerson, and Be Dell.)
- Bea, H., Jersey City, N. J. Flying-machine. No. 910,773; Jan. 26; Sp. p. 4797; Gaz. vol. 138; p. 868.
- Beach, A. B. (See Purple, Beach, and Trout.)
- Beach, C. (See Hotchkiss and Beach.)
- Beach, D. S., Bridgeport, Conn. Railway-tie and clamp. No. 910,449; Jan. 19; Sp. p. 4126; Gaz. vol. 138; p. 739.
- Beach, F. H., Jr., Rochester, N. Y. Milking-pail. No. 930,720; Aug. 10; Sp. p. 2253; Gaz. vol. 145; p. 392.
- Beach, F. H., Jr., Rochester, N. Y. Milking-pail. No. 930,721; Aug. 10; Sp. p. 2256; Gaz. vol. 145; p. 392.
- Beach, F. A., and J. D. Cunningham, Indianapolis, Ind. Metallic railway-rail tie. No. 927,210; July 6; Sp. p. 1056; Gaz. vol. 144; p. 171.
- Beach, H. L., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alternating direct-current system of control. No. 929,185; July 27; Sp. p. 5144; Gaz. vol. 144; p. 913.
- Beach, H. L., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of electric-motor control. No. 929,186; July 27; Sp. p. 5149; Gaz. vol. 144; p. 913.
- Beach, H. L., Wilkensburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Control system for electric motors. No. 929,187; July 27; Sp. p. 5153; Gaz. vol. 144; p. 914.
- Beach, H. W., Montrose, Pa. Internal-combustion engine. No. 931,837; Aug. 24; Sp. p. 4681; Gaz. vol. 145; p. 812.
- Beach, I. H. (See Hocquard and Beach.)
- Beach, J. C. (See Hocquard and Beach.)
- Beach, L. R., assignor of one-half to C. C. Bush, Colquitt, Ga. Plow-iron. No. 910,985; Jan. 26; Sp. p. 5192; Gaz. vol. 138; p. 936.
- Beach, O. C., assignor to F. W. Braun Company, Los Angeles, Cal. Pulverizer. No. 922,242; May 18; Sp. p. 4419; Gaz. vol. 142; p. 767.
- Beach, W. H., Wyncote, Wyo. Whip-lock. No. 943,729; Dec. 21; Sp. p. 3669; Gaz. vol. 149; p. 637.



*Alphabetical list of patentees—Continued.*

- Beachy, C. M. (See Settles, S., assignor.)
- Beadle, H. L., Hartford, Conn. Blind-stop. No. 941,552; Nov. 30; Sp. p. 6838; Gaz. vol. 148; p. 1158.
- Beahm, H. S., assignor of fifty-one one-hundredths to G. Misch, A. K. Misch, and H. R. H. Misch, Philadelphia, Pa. Insect-destroyer. No. 920,522; May 4; Sp. p. 869; Gaz. vol. 142; p. 140.
- Beahm, M. M., Norwood, Ohio. Carpenter's-plane. No. 932,672; Aug. 31; Sp. p. 6450; Gaz. vol. 145; p. 1113.
- Beal, A. R., and A. Hettel, Rochester, N. Y.; said Hettel assignor to said Beal. Tank. No. 919,306; Apr. 27; Sp. p. 5043; Gaz. vol. 141; p. 875.
- Beal, B. A., and T. G. Gray, Newport News, Va. Figure toy. No. 932,428; Aug. 31; Sp. p. 5911; Gaz. vol. 145; p. 1030.
- Beale, A. H., Vandergrift, assignor to American Sheet & Tin Plate Company, Pittsburg, Pa. Rolling metal sheets. No. 926,233; June 29; Sp. p. 6613; Gaz. vol. 143; p. 1167.
- Beale, C., et al. (See Moore, D. P., assignor.)
- Beale, C., and D. P. Moore, Washington, D. C., assignors of one-third to E. A. Lerch, Baltimore, Md. Hydraulically-operated pumping mechanism. No. 932,240; Aug. 24; Sp. p. 5547; Gaz. vol. 145; p. 945.
- Beale, W. C. F., Detroit, Mich. Weather-strip. No. 938,107; Oct. 26; Sp. p. 5237; Gaz. vol. 147; p. 898.
- Beall, A. E., and C. F. Skellenger, Clinton, Iowa. Vehicle-wheel. No. 933,049; Sept. 7; Sp. p. 12; Gaz. vol. 146; p. 4.
- Beall, F. M., and P. A. Parker, Anadarko, Okla. Tobacco-cutting machine. No. 942,372; Dec. 7; Sp. p. 714; Gaz. vol. 149; p. 116.
- Beals, J. F., Los Angeles, Cal. Gas apparatus. No. 936,212; Oct. 5; Sp. p. 1268; Gaz. vol. 147; p. 193.
- Beam, A. (See Pritchard and Beam.)
- Beamman, A. W., Worcester, Mass. Holder for detached cutting-blades. No. 943,645; Dec. 21; Sp. p. 3506; Gaz. vol. 149; p. 610.
- Beamman, A. W., Worcester, Mass. Crank-handle. No. 944,534; Dec. 28; Sp. p. 5398; Gaz. vol. 149; p. 939.
- Beamer, A., Spokane, Wash. Operating railway-trains. No. 927,401; July 6; Sp. p. 1398; Gaz. vol. 144; p. 232.
- Beamer, A., Spokane, Wash., assignor to A. B. C. Train Operating Company. Railway despatch-catcher. No. 934,129; Sept. 14; Sp. p. 2380; Gaz. vol. 146; p. 390.
- Beamish, W., Dunedin, New Zealand. Cigarette-holder. No. 915,726; Mar. 23; Sp. p. 4299; Gaz. vol. 140; p. 764.
- Beamond, F. L., Sutton Coldfield, England. Transporting apparatus. No. 908,441; Jan. 5; Sp. p. 15; Gaz. vol. 138; p. 4.
- Bean, A., New Brunswick, N. J. Syringe. No. 931,113; Aug. 17; Sp. p. 3137; Gaz. vol. 145; p. 549.
- Bean, C. L., San Jose, Cal. Rivet-punch. No. 922,660; May 25; Sp. p. 5279; Gaz. vol. 142; p. 933.
- Bean, C. O., deceased, (F. L. Baldwin, administrator,) and F. L. Baldwin, Franklin, N. H., assignors to said Baldwin. Wrench. No. 923,103; May 25; Sp. p. 6198; Gaz. vol. 142; p. 1075.
- Bean, E. L., Hydesville, Cal. Seat-spring. No. 921,942; May 18; Sp. p. 3805; Gaz. vol. 142; p. 669.
- Bean, F. S., deceased; V. S. Bean, administratrix, Manchester, N. H. Boiler. No. 911,023; Feb. 2; Sp. p. 3; Gaz. vol. 139; p. 3.
- Bean, P. L., Farmer City, Ill. Beater and mixer. No. 938,407; Oct. 26; Sp. p. 5905; Gaz. vol. 147; p. 1002.
- Bean, S. H., Atlanta, Ga. Printer's composing-stick. No. 944,535; Dec. 28; Sp. p. 5401; Gaz. vol. 149; p. 940.
- Bean, V. S., administratrix. (See Bean, F. S.)
- Bean, W. Z., West Medford, Mass. Attachment for turning tapered work or balls. No. 923,757; June 1; Sp. p. 1415; Gaz. vol. 143; p. 220.
- Bean, W. Z., West Medford, Mass. Automatic stamp moistener and affixer. No. 940,497; Nov. 16; Sp. p. 4567; Gaz. vol. 148; p. 762.
- Beard, D. (See Siff, G., assignor.)
- Beard, C. E., Punta Gorda, Fla. Earth excavator and conveyor. No. 925,075; June 15; Sp. p. 4229; Gaz. vol. 143; p. 720.
- Beard, B. N., Shelton, Conn. Combined mixer and sprinkler for making roads. No. 909,134; Jan. 12; Sp. p. 1461; Gaz. vol. 138; p. 265.
- Beard, D. F., Horton, Kans. Gate. No. 936,290; Oct. 12; Sp. p. 1416; Gaz. vol. 147; p. 246.
- Beard, D. S., assignor to Geiser Manufacturing Company, Waynesboro, Pa. Hay-press. No. 926,382; June 29; Sp. p. 6889; Gaz. vol. 143; p. 1212.
- Beard, F. A., Jacksontown, Ohio. Nut-lock. No. 922,243; May 18; Sp. p. 4421; Gaz. vol. 142; p. 768.
- Beard, G. M., Hanover, Pa. Brake-shoe. No. 915,408; Mar. 16; Sp. p. 3611; Gaz. vol. 140; p. 629.
- Beard, H. E. (See Wight, W. G., assignor.)
- Beard, J. W., Missoula, Mont. Gate-head. No. 928,422; July 20; Sp. p. 3582; Gaz. vol. 144; p. 633.
- Beard, R. S., assignor of one-half to L. A. Riley, 2d, Warwick, N. Y. Carriage for electric lamps. No. 943,174; Dec. 14; Sp. p. 2459; Gaz. vol. 149; p. 418.
- Beard, S. D., Shelton, Conn. Automatic burette. No. 939,382; Nov. 9; Sp. p. 2087; Gaz. vol. 148; p. 348.
- Beardslee Chandelier Manufacturing Company. (See Beardslee, G. M., assignor.)
- Beardslee, G. M., assignor to Beardslee Chandelier Manufacturing Company, Chicago, Ill. Stem for chandeliers. No. 937,407; Oct. 19; Sp. p. 3785; Gaz. vol. 147; p. 646.
- Beardsley, C. S., Cleveland, Ohio. Electromagnetic igniter. No. 925,742; June 22; Sp. p. 5546; Gaz. vol. 143; p. 967.
- Beardsley, F. E., Traverse City, Mich. Door-knob fastener. No. 941,906; Nov. 30; Sp. p. 7604; Gaz. vol. 148; p. 1280.
- Beardsley, F. W., New York, N. Y. Gas-tanks and distributing connections therefor. No. 937,406; Oct. 19; Sp. p. 3780; Gaz. vol. 147; p. 645.
- Beardsley, G. A., East Orange, N. J., and D. Wardell, New York, N. Y., assignors to Hermetic Closure Company, Chicago, Ill. Vacuum sealing apparatus. No. 930,025; Aug. 3; Sp. p. 849; Gaz. vol. 145; p. 137.
- Beardsley, T. E., and P. E. Carmody, Ansonia, Conn. Time-faucet. No. 927,706; July 13; Sp. p. 2091; Gaz. vol. 144; p. 363.
- Beardwell, A. W., Milford, assignor to Draper Company, Hopedale, Mass. Automatically-threading loom-shuttle. No. 929,817; Aug. 3; Sp. p. 403; Gaz. vol. 145; p. 66.
- Bearing, J. F., Boston, W. M. Donahey and C. E. Watson, McKeesport, Pa.; said Watson assignor to said Bearing and Donahey. Rotary engine. No. 927,929; July 13; Sp. p. 2568; Gaz. vol. 144; p. 437.
- Bearing, W. H., Mackinac, Mich. Potato-digger. No. 909,521; Jan. 12; Sp. p. 2203; Gaz. vol. 138; p. 391.
- Beasley, H. A., Bartlettville, Okla. Rope-knife. No. 923,482; June 1; Sp. p. 824; Gaz. vol. 143; p. 124.
- Beasley, J. M., Greensboro, N. C. Holster. No. 944,355; Dec. 28; Sp. p. 4979; Gaz. vol. 149; p. 877.
- Beasley, M. (See Martin and Beasley.)
- Beasley, M. M., San Bernardino, Cal. Punching and spacing machine. No. 937,279; Oct. 19; Sp. p. 3500; Gaz. vol. 147; p. 605.
- Beasley, W. S., Philadelphia, Pa. Plant-support. No. 936,402; Oct. 12; Sp. p. 1074; Gaz. vol. 147; p. 284.
- Beaton & Bradley Company. (See Burns, E., assignor.)
- Beaton, G. H., London, England. Wind-screen. No. 936,853; Oct. 12; Sp. p. 2615; Gaz. vol. 147; p. 436.
- Beaton, R. W., Pittsburg, Pa. Compression stop and waste cock. No. 911,365; Feb. 2; Sp. p. 671; Gaz. vol. 139; p. 114.
- Beaton, W. F., Frankford, Pa. Explosive-engine. No. 931,176; Aug. 17; Sp. p. 3275; Gaz. vol. 145; p. 571.
- Bears All Manufacturing Company. (See Mewis, A. F., assignor.)
- Beattie, A. S. (See Baxter and Beattie.)
- Beattie, C. M., assignor to Telechronometer Company, Rochester, N. Y. System for metering service on the lines of telephone-exchanges. No. 912,268; Feb. 9; Sp. p. 2527; Gaz. vol. 139; p. 434.
- Beattie, J., assignor of one-half to D. O'Brien, Middletown, Conn. Protective covering for blow-off pipes of steam-boilers and the like. No. 915,059; Mar. 9; Sp. p. 2873; Gaz. vol. 140; p. 487.
- Beattie, J. R., Mount Vernon, N. Y. Turn-table. No. 936,854; Oct. 12; Sp. p. 2615; Gaz. vol. 147; p. 436.
- Beattie, W. B. (See Gilson and Beattie.)
- Beattie, W. H. (See Minifie, W. A., assignor.)
- Beatty, A. H. C. (See Oblinger, B. C., assignor.)
- Beatty, J. F., Morton, Pa. Vehicle-spring. No. 915,326; Mar. 16; Sp. p. 3449; Gaz. vol. 140; p. 601.
- Beatty, J. F., Morton, Pa. Bed. No. 915,327; Mar. 16; Sp. p. 3450; Gaz. vol. 140; p. 602.
- Beatty, J. F., Morton, Pa. Mechanism for operating ventilators, transoms, and the like. No. 930,589; Aug. 10; Sp. p. 1992; Gaz. vol. 145; p. 349.
- Beatty, J. F., Morton, Pa. Combined sash holder and lock. No. 930,590; Aug. 10; Sp. p. 1993; Gaz. vol. 145; p. 349.
- Beatty, J. F., Morton, Pa. Poultry-securing device. No. 933,817; Sept. 14; Sp. p. 1742; Gaz. vol. 146; p. 289.
- Beatty, J. F., Morton, Pa. Bait-holder. No. 933,818; Sept. 14; Sp. p. 1742; Gaz. vol. 146; p. 289.
- Beatty, J. F., Morton, Pa. Window-screen mounting. No. 935,577; Sept. 28; Sp. p. 5253; Gaz. vol. 146; p. 921.
- Beatty, J. F., Morton, Pa. Rail-joint. No. 935,835; Oct. 5; Sp. p. 503; Gaz. vol. 147; p. 72.
- Beatty, J. F., Morton, Pa. Funnel. No. 936,511; Oct. 12; Sp. p. 1934; Gaz. vol. 147; p. 319.
- Beatty, J. F., Morton, Pa. Rotary table. No. 937,755; Oct. 26; Sp. p. 4491; Gaz. vol. 147; p. 780.
- Beatty, J. F., Morton, Pa. Lock. No. 937,756; Oct. 26; Sp. p. 4492; Gaz. vol. 147; p. 780.
- Beatty, J. F., Morton, Pa. Pocket match-safe. No. 939,657; Nov. 9; Sp. p. 2671; Gaz. vol. 148; p. 442.
- Beatty, J. F., Morton, Pa. Brake-shoe. No. 943,730; Dec. 21; Sp. p. 3671; Gaz. vol. 149; p. 638.
- Beatty, N., Madison, Ind. Wagon-seat. No. 911,024; Feb. 2; Sp. p. 4; Gaz. vol. 139; p. 3.
- Beatty, W. A., assignor to J. Nordhouse, trustee, New York, N. Y. Baking-powder. No. 931,027; Aug. 17; Sp. p. 2942; Gaz. vol. 145; p. 521.
- Beatty, W. A., assignor to R. W. McCulloch, trustee, New York, N. Y. Antiseptic soap. No. 942,538; Dec. 7; Sp. p. 1072; Gaz. vol. 149; p. 173.
- Beatty, W. G., Fergus, Ontario, Canada. Carrier. No. 911,284; Feb. 2; Sp. p. 520; Gaz. vol. 139; p. 89.
- Beaty, E. G. (See Gorman and Beaty.)

*Alphabetical list of patentees—Continued.*

- Beacondon, F. J., assignor to Southern Indiana Electrical Company, Incorporated, New Albany, Ind. Distributing-terminal for telephone-cables. No. 923,935; June 8; Sp. p. 1843; Gaz. vol. 143; p. 307.
- Beaudette, F. J., and F. L. Snowdon, Quinnesec, Mich. Steel railroad-tie. No. 912,785; Feb. 16; Sp. p. 3693; Gaz. vol. 139; p. 649.
- Beaudette, T. J., Los Angeles, Cal. Wave-motor. No. 915,153; Mar. 16; Sp. p. 3109; Gaz. vol. 140; p. 545.
- Beaudin, E., assignor of one-sixth to A. D. Daniels, one-sixth to R. C. Dayton, and one-sixth to J. O. Moen, Rhinelander, Wis. Releasing device for log-cars. No. 913,094; Feb. 23; Sp. p. 4269; Gaz. vol. 139; p. 773.
- Beaudry, J., Montreal, Quebec, Canada. Umbrella. No. 923,130; June 1; Sp. p. 1; Gaz. vol. 143; p. 3.
- Beaudry, J., Montreal, Quebec, Canada. Umbrella. No. 924,530; June 8; Sp. p. 3079; Gaz. vol. 143; p. 503.
- Beaudry, Z., Lynn, Mass. Sole-edge-burnishing machine. No. 931,558; Aug. 17; Sp. p. 4056; Gaz. vol. 145; p. 699.
- Beaupain, A. L., Springfield, Ohio. Printer's extension furniture. No. 917,237; Apr. 6; Sp. p. 561; Gaz. vol. 141; p. 98.
- Beaupain, J., Davenport, Iowa. Apparatus for conveying liquid. No. 927,094; July 6; Sp. p. 835; Gaz. vol. 144; p. 134.
- Beausejour, R. A., assignor to Standard Varnish Works, New York, N. Y. Liquid-coating machine. No. 921,847; May 11; Sp. p. 2589; Gaz. vol. 142; p. 446.
- Beausejour, R. A., assignor to Standard Varnish Works, New York, N. Y. Holder for liquid-coating machines. No. 941,607; Nov. 30; Sp. p. 6947; Gaz. vol. 148; p. 1175.
- Beausejour, R. A., and G. Drubel, assignors to Standard Varnish Works, New York, N. Y. Liquid-coating machine. No. 929,375; July 27; Sp. p. 5674; Gaz. vol. 144; p. 977.
- Beausejour, R. A., and G. Drubel, assignors to Standard Varnish Works, New York, N. Y. Article-holder for liquid-coating machines. No. 930,129; Aug. 3; Sp. p. 1073; Gaz. vol. 145; p. 173.
- Beaux, P., de Leipzig, Germany. Sound-reproducing box for disk talking-machines. No. 916,976; Apr. 6; Sp. p. 26; Gaz. vol. 141; p. 8.
- Beaver, C. E., Burnham, Pa. Horse-releaser. No. 929,275; July 27; Sp. p. 5348; Gaz. vol. 144; p. 962.
- Beaver Dam Manufacturing Company. (See Broman, P., assignor.)
- Beazell, E. H. (See Berger and Beazell.)
- Bezin, N. C., London, England, assignor to C. C. Wiener, Philadelphia, Pa. Shade for electric lamps. No. 940,649; Nov. 16; Sp. p. 4881; Gaz. vol. 148; p. 812.
- Bebout, W. H., Newark, Ohio. Window-washer. No. 926,973; July 6; Sp. p. 554; Gaz. vol. 144; p. 90.
- Bech, E., Copenhagen, Denmark. Automatically-closing valve. No. 914,547; Mar. 9; Sp. p. 1881; Gaz. vol. 140; p. 321.
- Bechard, J. N., New London, Wis. Sausage-meat-cutter grinder. No. 935,731; Oct. 5; Sp. p. 226; Gaz. vol. 147; p. 37.
- Béché, J., Hückeswagen, Germany. Drop-hammer. No. 920,106; May 4; Sp. p. 7; Gaz. vol. 142; p. 3.
- Bechen, G. von, Kalk, near Cologne, Germany. Change-over device or valve for Siemens-Martin or other regenerative furnaces. No. 927,930; July 13; Sp. p. 2571; Gaz. vol. 144; p. 438.
- Becher, M., Wilmington, Del. Skirt-lifting device. No. 930,026; Aug. 3; Sp. p. 852; Gaz. vol. 145; p. 137.
- Becher, C., assignor to American Metal Cap Company, New York, N. Y. Bottle and jar closure. No. 922,244; May 18; Sp. p. 4426; Gaz. vol. 142; p. 708.
- Becherer, G. C. (See Harders, H. M. A., assignor.)
- Bechman, H. F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Rotary-cylinder web-printing press. No. 916,408; Mar. 30; Sp. p. 5581; Gaz. vol. 140; p. 1011.
- Bechman, H. F., Battle Creek, Mich., assignor to Duplex Printing Press Company. Flat-bed printing-press. No. 917,838; Apr. 13; Sp. p. 1757; Gaz. vol. 141; p. 323.
- Bechman, H. F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Apparatus for casting stereotype-plates. No. 925,268; June 15; Sp. p. 4593; Gaz. vol. 143; p. 785.
- Bechman, H. F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Rotary printing-press. No. 927,931; July 13; Sp. p. 2572; Gaz. vol. 144; p. 438.
- Bechman, H. F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Stereotype-casting apparatus. No. 929,747; Aug. 3; Sp. p. 239; Gaz. vol. 145; p. 41.
- Bechman, H. F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Folding apparatus for printing-presses. No. 938,364; Oct. 26; Sp. p. 5812; Gaz. vol. 147; p. 986.
- Bechman, H. F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Inking apparatus. No. 942,703; Dec. 7; Sp. p. 1387; Gaz. vol. 149; p. 227.
- Becht, L. A., Paris, France. Aeroplane air-ship. No. 914,782; Mar. 9; Sp. p. 2372; Gaz. vol. 140; p. 398.
- Bechtel, A. C., Cleveland, Ohio. Match-box. No. 937,408; Oct. 19; Sp. p. 3787; Gaz. vol. 147; p. 646.
- Bechtel, R. V. M., *et al.* (See Triviss, J. M., assignor.)
- Bechtold, E. E., Chicago, Ill. Canopy-insulator. No. 917,238; Apr. 6; Sp. p. 564; Gaz. vol. 141; p. 98.
- Bechtold, W. S., Newark, N. J. Barrette. No. 922,838; May 25; Sp. p. 5653; Gaz. vol. 142; p. 990.
- Bechtold, W. S., Newark, N. J. Spark-plug. No. 938,108; Oct. 26; Sp. p. 5239; Gaz. vol. 147; p. 889.
- Beck, A., Cannstatt, Germany. Automatic spring-controlled lift-valve. No. 921,348; May 11; Sp. p. 2591; Gaz. vol. 142; p. 447.
- Beck, B. F., Lock Haven, Pa. Ventilating device for store-windows. No. 927,317; July 6; Sp. p. 1248; Gaz. vol. 144; p. 205.
- Beck, C. (See Wirth and Beck.)
- Beck, F., Dumont, N. J. Pneumatic device. No. 926,315; June 29; Sp. p. 6756; Gaz. vol. 143; p. 1192.
- Beck, F. J. (See Geterman, C. J., assignor.)
- Beck, H., Grant, Nebr. Calf-weaner. No. 929,376; July 27; Sp. p. 5578; Gaz. vol. 144; p. 978.
- Beck, H. C. (See Condell, Beck, and Dannenberg.)
- Beck, J. A. (See Fields, E., assignor.)
- Beck, J. W., El Rito, N. Mex. Ter. Ribbon-holder. No. 909,522; Jan. 12; Sp. p. 2204; Gaz. vol. 138; p. 391.
- Beck, R. H. (See Crawford, Beck, and Davies.)
- Becken, A. C., Chicago, Ill. Comb. No. 912,355; Feb. 16; Sp. p. 2753; Gaz. vol. 139; p. 501.
- Becker, A., assignor to Ralston Steel Car Company, Columbus, Ohio. Underframe for cars. No. 912,275; Feb. 16; Sp. p. 2580; Gaz. vol. 139; p. 475.
- Becker, A., assignor to Ralston Steel Car Company, Columbus, Ohio. Underframe for cars. No. 912,276; Feb. 16; Sp. p. 2581; Gaz. vol. 139; p. 475.
- Becker, A., assignor to Ralston Steel Car Company, Columbus, Ohio. Underframe for cars. No. 912,439; Feb. 16; Sp. p. 2922; Gaz. vol. 139; p. 530.
- Becker, A., assignor to Ralston Steel Car Company, Columbus, Ohio. Underframe for cars. No. 912,440; Feb. 16; Sp. p. 2924; Gaz. vol. 139; p. 530.
- Becker, A., assignor to Ralston Steel Car Company, Columbus, Ohio. Dumping-car. No. 913,938; Mar. 2; Sp. p. 586; Gaz. vol. 140; p. 93.
- Becker, A., assignor to Ralston Steel Car Company, Columbus, Ohio. Car-underframe. No. 920,813; May 4; Sp. p. 1459; Gaz. vol. 142; p. 236.
- Becker, A., assignor to Ralston Steel Car Company, Columbus, Ohio. Dumping-car. No. 931,720; Aug. 24; Sp. p. 4440; Gaz. vol. 145; p. 773.
- Becker, A., assignor to Ralston Steel Car Company, Columbus, Ohio. Bolster for hopper-cars. No. 933,014; Aug. 31; Sp. p. 7112; Gaz. vol. 145; p. 1223.
- Becker, A., assignor to Ralston Steel Car Company, Columbus, Ohio. Dumping-car. No. 934,267; Sept. 14; Sp. p. 2632; Gaz. vol. 146; p. 436.
- Becker, A., assignor to Ralston Steel Car Company, Columbus, Ohio. Dumping-car. No. 934,268; Sept. 14; Sp. p. 2633; Gaz. vol. 146; p. 437.
- Becker, A., assignor to Ralston Steel Car Company, Columbus, Ohio. Drop-door-operating mechanism for hopper-bottom cars. No. 934,269; Sept. 14; Sp. p. 2635; Gaz. vol. 146; p. 437.
- Becker, A., assignor to Ralston Steel Car Company, Columbus, Ohio. Underframe for cars. No. 934,382; Sept. 14; Sp. p. 2847; Gaz. vol. 146; p. 475.
- Becker, A., Columbus, assignor to Ralston Steel Car Company, Cleveland, Ohio. Underframe for cars. No. 934,383; Sept. 14; Sp. p. 2848; Gaz. vol. 146; p. 475.
- Becker, A. F. (See Diehl and Becker.)
- Becker, B. F., Glencoe, Ill. Suit-case. No. 943,333; Dec. 14; Sp. p. 2795; Gaz. vol. 149; p. 471.
- Becker-Drainard Milling Machine Company. (See Edgar, J., assignor.)
- Becker, C. (See Hoppe and Becker.)
- Becker, E. (See Thiessen and Becker.)
- Becker, E. (See Ungerer and Becker.)
- Becker, E. C. F., Milledgeville, Ga. Buggy top and curtain. No. 928,099; July 13; Sp. p. 2880; Gaz. vol. 144; p. 492.
- Becker, E. D., assignor of one-half to C. G. Wilson, Reading, Pa. Safety-razor. No. 919,307; Apr. 27; Sp. p. 5045; Gaz. vol. 141; p. 876.
- Becker, F., Cleveland, Ohio. Broom. No. 928,490; July 20; Sp. p. 3721; Gaz. vol. 144; p. 654.
- Becker, F. M., and E. J. Ondrizek, Latrobe, Pa. Fruit and lard press. No. 930,130; Aug. 3; Sp. p. 1074; Gaz. vol. 145; p. 173.
- Becker, G., New York, N. Y. Coat-shirt. No. 925,269; June 15; Sp. p. 4596; Gaz. vol. 143; p. 785.
- Becker, G. L., New York, N. Y. Combined violin chin and shoulder rest. No. 908,541; Jan. 5; Sp. p. 231; Gaz. vol. 138; p. 39.



*Alphabetical list of patentees—Continued.*

- Becker, J. (See Krone and Becker.)  
 Becker, J., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Rammer for ammunition. No. 932,094; Aug. 24; Sp. p. 5256; Gaz. vol. 145; p. 896.  
 Becker, J., Hyde Park, Mass., assignor to Becker Milling Machine Company, Portland, Me. Friction transmission mechanism. No. 941,402; Nov. 30; Sp. p. 6532; Gaz. vol. 148; p. 1109.  
 Becker, J. A., *et al.* (See Crouch, F. J., assignor.)  
 Becker, J. G., Parkston, S. D. Poultry watering device. No. 910,039; Jan. 19; Sp. p. 3238; Gaz. vol. 138; p. 597.  
 Becker & Kolbinger, Firm of. (See Münster, K., assignor.)  
 Becker, L. (See Flach, Becker, and Paulson.)  
 Becker, L. C., New York, N. Y. Tuning-peg. No. 912,441; Feb. 16; Sp. p. 2925; Gaz. vol. 139; p. 530.  
 Becker, M. B., Chicago, Ill. Amusement device. No. 940,664; Nov. 23; Sp. p. 4926; Gaz. vol. 148; p. 843.  
 Becker Milling Machine Company. (See Becker, J., assignor.)  
 Becker, R., Berlin, Germany. Self-loading pistol. No. 935,952; Oct. 5; Sp. p. 748; Gaz. vol. 147; p. 111.  
 Becker, T., Pittsburg, Pa. Saw-sharpener. No. 910,893; Jan. 26; Sp. p. 5029; Gaz. vol. 138; p. 906.  
 Beckerly, B., Seattle, Wash. Fender. No. 925,417; June 15; Sp. p. 4860; Gaz. vol. 143; p. 831.  
 Beckers, G. T., Los Angeles, Cal. Tire. No. 920,523; May 4; Sp. p. 870; Gaz. vol. 142; p. 140.  
 Beckert, F. W., New Haven, Conn., assignor to Greist Manufacturing Company. Tuck-creaser for sewing-machines. No. 928,838; July 20; Sp. p. 4417; Gaz. vol. 144; p. 769.  
 Beckert, F. W., New Haven, Conn., assignor to Greist Manufacturing Company. Tuck-creaser for sewing-machines. No. 933,819; Sept. 14; Sp. p. 1743; Gaz. vol. 146; p. 289.  
 Becket, F. M., Niagara Falls, N. Y. Reducing ores. No. 930,027; Aug. 3; Sp. p. 853; Gaz. vol. 145; p. 137.  
 Becket, F. M., Niagara Falls, N. Y. Reducing ores. No. 930,028; Aug. 3; Sp. p. 854; Gaz. vol. 145; p. 138.  
 Becket, F. M., Niagara Falls, assignor to Electro Metallurgical Company, New York, N. Y. Making titanium alloys. No. 910,894; Jan. 26; Sp. p. 5032; Gaz. vol. 138; p. 906.  
 Becket, F. M., Niagara Falls, assignor to Electro Metallurgical Company, New York, N. Y. Reducing ores. No. 924,130; June 8; Sp. p. 2218; Gaz. vol. 143; p. 370.  
 Becket, F. M., Niagara Falls, N. Y., assignor to Electro Metallurgical Company. Electric furnace. No. 932,368; Aug. 24; Sp. p. 5780; Gaz. vol. 145; p. 987.  
 Becket, F. M., Niagara Falls, assignor to Electro Metallurgical Company, New York, N. Y. Treating iron or steel. No. 940,665; Nov. 23; Sp. p. 4928; Gaz. vol. 148; p. 843.  
 Decket, F. M., Niagara Falls, N. Y., assignor to Electro Metallurgical Company. Producing low-carbon, low-silicon titanium alloys. No. 941,553; Nov. 30; Sp. p. 6889; Gaz. vol. 148; p. 1158.  
 Beckfield, J. C., Pittsburg, Pa. Pneumatic-tool lubricator. No. 909,740; Jan. 12; Sp. p. 2640; Gaz. vol. 138; p. 466.  
 Beckley, W. B., Stamford, Conn. Game apparatus. No. 941,488; Nov. 30; Sp. p. 6715; Gaz. vol. 148; p. 1138.  
 Beckman, A. G., assignor of one-half to J. Levy, Baltimore, Md. Fluid-pressure regulator. No. 920,716; May 4; Sp. p. 1283; Gaz. vol. 142; p. 205.  
 Beckman, A. H., Madison, Wis. Steam-turbine. No. 912,061; Feb. 9; Sp. p. 2137; Gaz. vol. 139; p. 369.  
 Beckman, B. T., Lowell, Ind. Concrete-tile mold. No. 939,968; Nov. 16; Sp. p. 5343; Gaz. vol. 148; p. 578.  
 Beckman, J. (See Eichbaum, H. W., assignor.)  
 Beckwith, A. K., Dowagiac, Mich. Heating-stove. No. 931,374; Aug. 17; Sp. p. 3712; Gaz. vol. 145; p. 641.  
 Beckwith Box Toe Company. (See Grant, R. P., assignor.)  
 Beckwith, E. F., Schenectady, N. Y., assignor to General Electric Company. Process of purifying tungstic anhydrid. No. 926,084; June 22; Sp. p. 6271; Gaz. vol. 143; p. 1080.  
 Becraft, J. A. (See Bowman and Becraft.)  
 Bedee, F., Wellington, Ohio. Pulverizing-plow. No. 935,732; Oct. 5; Sp. p. 228; Gaz. vol. 147; p. 37.  
 Bedell, J., Rensselaer, assignor to Burdick & Son, Albany, N. Y. Means for forming threaded openings in castings. No. 914,915; Mar. 9; Sp. p. 2630; Gaz. vol. 140; p. 441.  
 Bedell, O. W., New York, N. Y., assignor to Ely-Norris Safe Company, Perth Amboy, N. J. Safe. No. 909,523; Jan. 12; Sp. p. 2205; Gaz. vol. 138; p. 391.  
 Bedell, S. D., Hackensack, N. J. Shipping-case. No. 944,837; Dec. 28; Sp. p. 6053; Gaz. vol. 149; p. 1042.  
 Bedford, A. J., Melbourne, Victoria, Australia. Automatic lighting and extinguishing device. No. 939,790; Nov. 9; Sp. p. 2966; Gaz. vol. 148; p. 488.  
 Bedford, E. S., Grand Rapids, Mich. Foot-gage. No. 944,937; Dec. 28; Sp. p. 6255; Gaz. vol. 149; p. 1075.  
 Bedford, J. P. (See Watson, H. W., assignor.)  
 Bedient, E. A., Erie, Pa. Spring bed-bottom. No. 911,642; Feb. 9; Sp. p. 1229; Gaz. vol. 139; p. 232.  
 Bedson, S., Trenton, N. J., assignor to John Douglas Company. Lavatory. No. 935,290; Sept. 28; Sp. p. 465; Gaz. vol. 146; p. 827.  
 Beduwé, F., Lüttich, Belgium. Apparatus for elevating and cleaning material of a granular nature. No. 914,475; Mar. 9; Sp. p. 1732; Gaz. vol. 140; p. 297.  
 Bee, F. X., Philadelphia, Pa. Automatic telephone pay-station. No. 938,949; Nov. 2; Sp. p. 1093; Gaz. vol. 148; p. 173.  
 Beebe, C. R., New Haven, Conn. Electric switch. No. 922,746; May 25; Sp. p. 5459; Gaz. vol. 142; p. 961.  
 Beebe, C. S., Racine, Wis. Storm-apron or robe-holder. No. 937,222; Oct. 19; Sp. p. 3375; Gaz. vol. 147; p. 586.  
 Beebe, E. C., Kansas City, Kans., assignor of one-half to W. T. Boyer, Kansas City, Mo., and E. J. Colgan, Kansas City, Kans. Amusement device. No. 944,407; Dec. 28; Sp. p. 5101; Gaz. vol. 149; p. 896.  
 Beebe, E. F., Wichita, Kans. Washing-machine. No. 933,050; Sept. 7; Sp. p. 14; Gaz. vol. 146; p. 5.  
 Beebe, E. F., Minneapolis, Minn. Washing-machine. No. 935,953; Oct. 5; Sp. p. 751; Gaz. vol. 147; p. 111.  
 Beebe, G. H., assignor to Fisher Governor Company, Marshalltown, Iowa. Vacuum-governor. No. 927,446; July 6; Sp. p. 1503; Gaz. vol. 144; p. 249.  
 Beebe, H. W., New Haven, Conn. Vehicle-lamp. No. 925,676; June 22; Sp. p. 5395; Gaz. vol. 143; p. 945.  
 Beebe, J. D., Detroit, Mich. Holder for radiator-fins. No. 925,446; June 22; Sp. p. 4938; Gaz. vol. 143; p. 872.  
 Beech-Nut Packing Company *et al.* (See Lorenz, W. A., assignor.)  
 Beecher, A. M., Makanda, Ill. Mower-knife sharpener. No. 930,924; Aug. 10; Sp. p. 2683; Gaz. vol. 145; p. 459.  
 Beecher, E. C., Norwalk, Ohio. Umbrella-frame. No. 938,950; Nov. 2; Sp. p. 1096; Gaz. vol. 148; p. 174.  
 Beecher, L. W. (See Sandahl, V., assignor.)  
 Beecroft, C., Philadelphia, Pa. Amplifying-horn. No. 915,013; Mar. 9; Sp. p. 2783; Gaz. vol. 140; p. 471.  
 Beede, H. G., Pawtucket, R. I. Thread-board and thread-guide support for spinning and twisting machines. No. 910,450; Jan. 19; Sp. p. 4127; Gaz. vol. 138; p. 740.  
 Beede, H. G., Pawtucket, R. I. Spinning or twisting machine. No. 916,977; Apr. 6; Sp. p. 28; Gaz. vol. 141; p. 9.  
 Beehler, W., assignor to Owosso Manufacturing Company, Owosso, Mich. Shovel. No. 931,838; Aug. 24; Sp. p. 4684; Gaz. vol. 145; p. 812.  
 Beehner, F., *et al.* (See Harvey, F. R., assignor.)  
 Beeland, C. D., assignor of one-half to E. M. Dunning, Atlanta, Ga. Crib attachment for bedsteads. No. 920,009; Apr. 27; Sp. p. 6510; Gaz. vol. 141; p. 1111.  
 Beeler, A. T., Kansas City, Mo., and I. W. Beeler, Kansas City, Kans. Floor-scraper. No. 926,458; June 29; Sp. p. 7029; Gaz. vol. 143; p. 1239.  
 Beeler, I. W. (See Beeler, A. T. and I. W.)  
 Beem, D. J., Spencer, Ind. Manure-spreader. No. 920,247; May 4; Sp. p. 325; Gaz. vol. 142; p. 51.  
 Beeman, V. L., Wellington, Ohio. Electric signal system. No. 912,786; Feb. 16; Sp. p. 3694; Gaz. vol. 139; p. 649.  
 Beemer, F., assignor to S. S. Eveland, Philadelphia, Pa. Electric gear-changing mechanism for automobiles. No. 925,270; June 15; Sp. p. 4597; Gaz. vol. 143; p. 785.  
 Beemer, F., assignor to S. S. Eveland, Philadelphia, Pa. Gear-changing mechanism for automobiles. No. 930,029; Aug. 3; Sp. p. 856; Gaz. vol. 145; p. 138.  
 Beemer, J. (See Smith, E. H., assignor.)  
 Beemer, M. W., New York, N. Y. Churn. No. 922,076; May 18; Sp. p. 4081; Gaz. vol. 142; p. 714.  
 Been, F. E., Magrath, Alberta, Canada. Rural-mail delivering and collecting system. No. 921,504; May 11; Sp. p. 2905; Gaz. vol. 142; p. 498.  
 Beers, E. D., Ipava, Ill. Replanting attachment for cultivators. No. 910,774; Jan. 26; Sp. p. 4801; Gaz. vol. 138; p. 868.  
 Beers, J. L., Wilkinsburg, Pa. Quick-action monkey-wrench. No. 915,540; Mar. 16; Sp. p. 3876; Gaz. vol. 140; p. 672.  
 Bees, H. F., and J. B. Wolcott, Flint, Mich. Hose-nozzle support. No. 916,978; Apr. 6; Sp. p. 29; Gaz. vol. 141; p. 9.  
 Beetem, F. G., assignor to Electric Storage Battery Company, Philadelphia, Pa. System of electrical distribution. No. 937,018; Oct. 12; Sp. p. 2942; Gaz. vol. 147; p. 489.  
 Beetham, T. J., Newark, N. J., assignor to Tea Tray Company of Newark, N. J. Horn-crane. No. 938,739; Nov. 2; Sp. p. 723; Gaz. vol. 148; p. 99.

*Alphabetical list of patentees—Continued.*

- Beezley, D. A., assignor of one-third to F. H. Farris, St. Louis, Mo. Safety locking-switch. No. 926,459; June 29; Sp. p. 7031; Gaz. vol. 143; p. 1239.
- Beggs, J. M., Crafton, Pa. Valve. No. 910,895; Jan. 26; Sp. p. 5033; Gaz. vol. 138; p. 906.
- Begins, J. J., Brunswick, Me., assignor to Barber-Colman Company, Rockford, Ill. Locking device for clamps. No. 942,239; Dec. 7; Sp. p. 453; Gaz. vol. 149; p. 70.
- Begle, C. A., Ann Arbor, assignor of one-half to N. G. Begle, Detroit, Mich. Artificial stone. No. 916,409; Mar. 30; Sp. p. 5583; Gaz. vol. 140; p. 1011.
- Begle, N. G. (See Begle, C. A., assignor.)
- Begole, J. F., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Electrical measuring instrument. No. 913,932; Mar. 2; Sp. p. 587; Gaz. vol. 140; p. 94.
- Behn, H., Brooklyn, N. Y., and C. Rempt, Paterson, N. J. Apparatus for dermal treatment. No. 920,814; May 4; Sp. p. 1460; Gaz. vol. 142; p. 236.
- Behmer, J. E., Eskilstuna, Sweden. Machine for the formation of coverings on streets, roads, and other places. No. 910,636; Jan. 26; Sp. p. 4530; Gaz. vol. 138; p. 825.
- Behn, C., East Orange, N. J. Pump. No. 909,135; Jan. 12; Sp. p. 1462; Gaz. vol. 138; p. 256.
- Behnke, A. R., St. Paul, Minn. Transmission-gearing. No. 941,056; Nov. 23; Sp. p. 5766; Gaz. vol. 148; p. 973.
- Behnke, H. H., Davenport, Iowa. Device for receiving and delivering mail-bags. No. 933,951; Sept. 14; Sp. p. 2010; Gaz. vol. 146; p. 331.
- Behnke, O., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Transport-carriage for portable guns. No. 932,096; Aug. 24; Sp. p. 5261; Gaz. vol. 145; p. 897.
- Behnke, O., and O. T. Mann, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Transport-carriage for portable guns. No. 932,095; Aug. 24; Sp. p. 5257; Gaz. vol. 145; p. 896.
- Behr, A., Pasadena, Cal. Food product and making same. No. 914,379; Mar. 9; Sp. p. 1557; Gaz. vol. 140; p. 265.
- Behr, B., Suhl, Germany. Firearm. No. 926,456; June 29; Sp. p. 7027; Gaz. vol. 143; p. 1239.
- Behr, B., Suhl, Germany. Signaling device. No. 926,457; June 29; Sp. p. 7028; Gaz. vol. 143; p. 1239.
- Behre, L. (See Glasel, C. J., assignor.)
- Behrend, B. A., Norwood, Ohio, assignor, by mesne assignments, to Bullock Electric Company. Revolving field-magnet structure. No. 918,498; Apr. 20; Sp. p. 3136; Gaz. vol. 141; p. 575.
- Behrend, B. A., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 909,136; Jan. 12; Sp. p. 1464; Gaz. vol. 138; p. 266.
- Behrend, B. A., Norwood, Ohio, assignor to Bullock Electric Manufacturing Co. and Allis-Chalmers Company. Field-magnet. No. 918,499; Apr. 20; Sp. p. 3138; Gaz. vol. 141; p. 576.
- Behrend, B. A., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Rotor construction. No. 921,505; Mar. 11; Sp. p. 2907; Gaz. vol. 142; p. 499.
- Behrend, B. A., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 922,245; May 18; Sp. p. 4427; Gaz. vol. 142; p. 769.
- Behrend, B. A., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 922,839; May 25; Sp. p. 5654; Gaz. vol. 142; p. 991.
- Behrend, B. A., Norwood, Ohio, assignor, by mesne assignments, to Bullock Electric Manufacturing Company and Allis-Chalmers Company. Armature construction. No. 923,614; June 1; Sp. p. 1128; Gaz. vol. 143; p. 172.
- Behrend, B. A., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Core-spacing member for dynamo-electric machines. No. 925,271; June 15; Sp. p. 4600; Gaz. vol. 143; p. 786.
- Behrend, B. A., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 925,272; June 15; Sp. p. 4602; Gaz. vol. 143; p. 786.
- Behrend, B. A., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 926,086; June 22; Sp. p. 6274; Gaz. vol. 143; p. 1081.
- Behrend, B. A., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 927,318; July 6; Sp. p. 1249; Gaz. vol. 144; p. 205.
- Behrend, B. A., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company and Allis-Chalmers Company. Dynamo-electric machine. No. 931,375; Aug. 17; Sp. p. 3714; Gaz. vol. 145; p. 641.
- Behrend, B. A., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Brush-stud support. No. 931,376; Aug. 17; Sp. p. 3718; Gaz. vol. 145; p. 642.
- Behrend, B. A., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Rotor construction. No. 932,097; Aug. 24; Sp. p. 5264; Gaz. vol. 145; p. 897.
- Behrend, B. A., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-machine construction. No. 933,226; Sept. 7; Sp. p. 445; Gaz. vol. 146; p. 68.
- Behrend, B. A., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 940,632; Nov. 16; Sp. p. 4846; Gaz. vol. 148; p. 806.
- Behrend, B. A., and E. Mattman, Norwood, Ohio, assignors to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 923,615; June 1; Sp. p. 1130; Gaz. vol. 143; p. 173.
- Behrend, H., Südde, near Berlin, assignor to Siemens-Schuckert Werke G. m. b. H., Berlin, Germany. Forming junction and feeding points in electrical aerial distribution systems. No. 913,262; Apr. 13; Sp. p. 2650; Gaz. vol. 141; p. 470.
- Behrend, S. K., Denver, Colo. Ore-concentrator. No. 916,257; Mar. 23; Sp. p. 5282; Gaz. vol. 140; p. 934.
- Behrend, S. K., Denver, Colo. Filter-press. No. 924,131; June 8; Sp. p. 2219; Gaz. vol. 143; p. 371.
- Behrens, C. W., Lancaster, Ohio. Manure-distributor. No. 927,095; July 6; Sp. p. 837; Gaz. vol. 144; p. 134.
- Behrens, D. F. (See Neumann, A., assignor.)
- Behrens, F., Los Angeles, Cal. Safety can-opener. No. 926,234; June 29; Sp. p. 6615; Gaz. vol. 143; p. 1167.
- Behrens, H. J., Winona, Minn. Milk-pail. No. 927,481; July 13; Sp. p. 1593; Gaz. vol. 144; p. 287.
- Behrens, H. J., Winona, Minn. Washing device. No. 932,949; Aug. 31; Sp. p. 6997; Gaz. vol. 145; p. 1202.
- Behrens, H. J., Winona, Minn. Water-still. No. 932,950; Aug. 31; Sp. p. 6998; Gaz. vol. 145; p. 1202.
- Behrens, W. (See Albright, J., assignor.)
- Behrer, M., New York, N. Y. Vehicle-tire. No. 928,731; July 20; Sp. p. 4210; Gaz. vol. 144; p. 733.
- Behrnd, G. A., assignor of one-half to T. Thomson, San Francisco, Cal. Making piles. No. 918,263; Apr. 13; Sp. p. 2653; Gaz. vol. 141; p. 470.
- Beidler, J. A. (See Loomis, D. P., assignor.)
- Beienburg, J. S., Seattle, Wash. Fruit and vegetable masher. No. 911,108; Feb. 2; Sp. p. 162; Gaz. vol. 139; p. 31.
- Beiersdorf & Company, P. (See Wolfenstein, R. F., assignor.)
- Beil, A. D., Sharon, Pa. Cotton-chopper. No. 925,743; June 22; Sp. p. 5548; Gaz. vol. 143; p. 967.
- Beil, J. L., Galena, Ill. Water-wheel. No. 942,811; Dec. 7; Sp. p. 1599; Gaz. vol. 149; p. 263.
- Beils, C. W., New York, N. Y. Motor-operated sign apparatus. No. 924,416; June 8; Sp. p. 2857; Gaz. vol. 143; p. 467.
- Beiser, C. W., assignor to American Soldier Company, Brooklyn, N. Y. Toy. No. 925,273; June 15; Sp. p. 4603; Gaz. vol. 143; p. 787.
- Beishelm, G., Rochester, N. Y. Chin-rest for violins. No. 931,251; Aug. 17; Sp. p. 3441; Gaz. vol. 145; p. 597.
- Beishelm, G., Rochester, N. Y. Shoulder-rest for violins. No. 932,844; Aug. 31; Sp. p. 6803; Gaz. vol. 145; p. 1167.
- Bejot, A. J., Long Pine, Nebr. Draft appliance for harvesting machinery. No. 934,880; Sept. 21; Sp. p. 3828; Gaz. vol. 146; p. 664.
- Beland, B. A., and J. P. Downs, Springfield, Mo. Boiler-flue cleaner. No. 929,377; July 27; Sp. p. 5579; Gaz. vol. 144; p. 978.
- Belau, W. F., et al. (See Durgin, F. H., assignor.)
- Belavance, J., Webster, assignor to Draper Company, Hopedale, Mass. Salvage-motion for looms. No. 913,095; Feb. 23; Sp. p. 4271; Gaz. vol. 139; p. 774.
- Belavance, J., Webster, assignor to Draper Company, Hopedale, Mass. Thin-place-detecting mechanism for looms. No. 918,645; Apr. 20; Sp. p. 4688; Gaz. vol. 141; p. 624.
- Belcher, E., Olyphant, Pa. Tension device. No. 913,680; Mar. 2; Sp. p. 5; Gaz. vol. 140; p. 3.
- Belcher, G. E., Stoughton, Mass. Tape for measuring lasts. No. 913,454; Feb. 23; Sp. p. 5009; Gaz. vol. 139; p. 895.
- Belcher, R. E., Portland, Ore. Electric sign. No. 910,092; Mar. 23; Sp. p. 4978; Gaz. vol. 140; p. 882.
- Belcher, R. B., Bainbridge, Ga. Shelving construction. No. 919,526; Apr. 27; Sp. p. 5530; Gaz. vol. 141; p. 950.
- Belcher, R. R., Bainbridge, Ga. Building and shelving construction. No. 925,677; June 22; Sp. p. 5396; Gaz. vol. 143; p. 945.
- Belden Manufacturing Company. (See Beutler, A., assignor.)
- Belden Manufacturing Company. (See Parsons, N. B., assignor.)
- Belden Manufacturing Company. (See Parsons and Beutler, assignors.)
- Belden, R., Spanish Ranch, Cal. Safety appliance for railway-cars. No. 917,525; Apr. 6; Sp. p. 1115; Gaz. vol. 141; p. 195.
- Belding, A. M., Osakis, Minn. Sulky-plow and attachment. No. 922,246; May 18; Sp. p. 4430; Gaz. vol. 142; p. 769.
- Belding Brothers & Co. (See Holmes, A. J., assignor.)



*Alphabetical list of patentees—Continued.*

Belding & Franklin Machine Co. (See Weber, W. L., assignor.)

Belser, A., assignor to Belser Water Heater Co., Pittsburg, Pa. Temperature-regulator. No. 917,704; Apr. 6; Sp. p. 1444; Gaz. vol. 141; p. 253.

Belser Water Heater Co. (See Belser, A., assignor.)

Belin, E., Paris, France. Telautograph. No. 915,154; Mar. 16; Sp. p. 3110; Gaz. vol. 140; p. 546.

Belk, J. A., Felding, New Zealand. Fish-plate for railways. No. 927,932; July 13; Sp. p. 2574; Gaz. vol. 144; p. 438.

Belknap, E. J., Chicago, Ill. Tool-holding appliance. No. 921,579; May 11; Sp. p. 3034; Gaz. vol. 142; p. 521.

Belknap T. M., Burlington, Iowa. Ice-cream freezer. No. 912,787; Feb. 16; Sp. p. 3697; Gaz. vol. 139; p. 650.

Bell, A. C. and T. R., Westfield, N. J. Alternating-current motor. No. 935,352; Sept. 28; Sp. p. 4794; Gaz. vol. 146; p. 847.

Bell, A. R., Unity, Saskatchewan, Canada. Wrench. No. 932,951; Aug. 31; Sp. p. 6999; Gaz. vol. 145; p. 1202.

Bell, C. M., Goodland, Ind. Traction-wheel. No. 926,844; July 6; Sp. p. 294; Gaz. vol. 144; p. 47.

Bell, D. J., Chicago, Ill. Protective device for picture-machines. No. 916,410; Mar. 30; Sp. p. 5584; Gaz. vol. 140; p. 1012.

Bell, E., Dunbar, Pa. Trolley switch-plate. No. 928,839; July 20; Sp. p. 4419; Gaz. vol. 144; p. 770.

Bell, E. H., Chicago, Ill. Manufacturing tie-plates. No. 938,109; Oct. 26; Sp. p. 5241; Gaz. vol. 147; p. 899.

Bell, E. S., assignor to Paye Coin Holder Co., Chicago, Ill. Coin-holder. No. 910,486; Jan. 26; Sp. p. 4216; Gaz. vol. 138; p. 776.

Bell, E. W., assignor of one-half to H. Bell, New York, N. Y. Ticket dating and delivering apparatus. No. 927,020; July 6; Sp. p. 654; Gaz. vol. 144; p. 107.

Bell, F. D., Glen Ridge, N. J. Hypodermic syringe. No. 938,951; Nov. 2; Sp. p. 1097; Gaz. vol. 148; p. 174.

Bell, F. M. (See Carpenter, S. H., assignor.)

Bell, G. L., Elk Valley, Tenn. Mine-car. No. 921,506; May 11; Sp. p. 2910; Gaz. vol. 142; p. 499.

Bell, G. W., Kansas City, Mo. Truss. No. 934,130; Sept. 14; Sp. p. 2382; Gaz. vol. 146; p. 390.

Bell, H. (See Bell, E. W., assignor.)

Bell, H., *et al.* (See Frederick, L., assignor.)

Bell, H. W. (See Comerma, J., assignor.)

Bell, H. W., New York, N. Y. Plaster board and block. No. 932,098; Aug. 24; Sp. p. 5267; Gaz. vol. 145; p. 898.

Bell, J. E., assignor to Babcock & Wilcox Company, New York, N. Y. Superheater-boiler. No. 908,939; Jan. 5; Sp. p. 1037; Gaz. vol. 138; p. 166.

Bell, J. E., assignor to Babcock & Wilcox Company, New York, N. Y. Superheater-boiler. No. 925,076; June 15; Sp. p. 4231; Gaz. vol. 143; p. 721.

Bell, J. E., assignor to Babcock & Wilcox Company, New York, N. Y. Boiler-stoker. No. 932,369; Aug. 24; Sp. p. 5782; Gaz. vol. 145; p. 987.

Bell, J. E., Barborton, Ohio, assignor to Babcock & Wilcox Company, New York, N. Y. Water-tube boiler. No. 935,884; Oct. 5; Sp. p. 614; Gaz. vol. 147; p. 88.

Bell, J. R. (See McCallum and Bell.)

Bell, J. W., Shenandoah, Pa. Reversing-valve. No. 920,524; May 4; Sp. p. 872; Gaz. vol. 142; p. 141.

Bell, J. W., Vancouver, British Columbia, Canada. Gang-saw. No. 931,912; Aug. 24; Sp. p. 4875; Gaz. vol. 145; p. 835.

Bell, L. D., Moorman, Ky. Clevis. No. 932,429; Aug. 31; Sp. p. 5913; Gaz. vol. 145; p. 1031.

Bell, R., *et al.* (See Pritschau, F. A., assignor.)

Bell, R., Bloomfield, N. J. Faucet. No. 931,252; Aug. 17; Sp. p. 3442; Gaz. vol. 145; p. 597.

Bell, T., Toronto, Ontario, Canada. Mothproof bag. No. 916,093; Mar. 23; Sp. p. 4981; Gaz. vol. 140; p. 882.

Bell, T. R. (See Bell, A. C. and T. R.)

Bell, W. G., Newton, Mass. Flag. No. 916,979; Apr. 6; Sp. p. 30; Gaz. vol. 141; p. 9.

Bell, W. I., Jersey City, N. J. Valve. No. 934,131; Sept. 14; Sp. p. 2384; Gaz. vol. 146; p. 390.

Bell, W. J., Newwayo, Mich., T. L. Sturtevant, Quincy, and T. J. Sturtevant, Wellesley, Mass.; said T. L. and T. J. Sturtevant assignors to said Bell. Vibrating screen or separator. No. 923,108; May 25; Sp. p. 6211; Gaz. vol. 142; p. 1077.

Bell, W. N., Pittsburg, Pa. Boat. No. 931,177; Aug. 17; Sp. p. 3277; Gaz. vol. 145; p. 571.

Bella, F. Di, New York, N. Y. Secret-keyhole latch. No. 917,557; Apr. 6; Sp. p. 1168; Gaz. vol. 141; p. 204.

Bellefontaine Foundry & Machine Company. (See Turner, G. E., assignor.)

Bellens, C. (See Lentz and Bellens.)

Bellerville, A., St. Elizabeth, Manitoba, Canada. Grain-drill. No. 909,137; Jan. 12; Sp. p. 1466; Gaz. vol. 138; p. 267.

Bellet, F., Paris, France. Manufacture of ultramarines. No. 938,408; Oct. 26; Sp. p. 5906; Gaz. vol. 147; p. 1002.

Belleville Baler Company. (See Wehrenberg, C. E., assignor.)

Belleville Stove & Range Company. (See Hofmeister, C., assignor.)

Bellinger, H. C., assignor of one-half to G. H. Elvis, Salt Lake City, Utah. Furnace for treating ores. No. 942,052; Dec. 7; Sp. p. 18; Gaz. vol. 149; p. 5.

Bellini, E. and A. Tosi, Paris, France. System of directed wireless telegraphy. No. 943,960; Dec. 21; Sp. p. 4140; Gaz. vol. 149; p. 718.

Belliss and Morcom Limited. (See Morcom and Jude, assignors.)

Bellhoff, J. C. and A. Roth, New Brunswick, N. J. Emergency-horseshoe. No. 925,982; June 22; Sp. p. 6052; Gaz. vol. 143; p. 1046.

Belloni, D., Edri, Pa. System of mine ventilation. No. 925,274; June 15; Sp. p. 4605; Gaz. vol. 143; p. 787.

Bellows, B. F., Cleveland, Ohio. Telegraph-transmitter. No. 939,383; Nov. 9; Sp. p. 2089; Gaz. vol. 148; p. 349.

Bellows, B. F., Cleveland, Ohio, assignor to Electric Compositor Company, New York, N. Y. Justifying mechanism. No. 921,063; May 11; Sp. p. 1965; Gaz. vol. 142; p. 349.

Bellows, B. F., Cleveland, Ohio, assignor to Electric Compositor Company, New York, N. Y. Linotype-making mechanism. No. 921,064; May 11; Sp. p. 1979; Gaz. vol. 142; p. 349.

Bellows, B. F., Cleveland, Ohio, assignor to Electric Compositor Company, New York, N. Y. Matrix-distributing mechanism. No. 921,065; May 11; Sp. p. 1982; Gaz. vol. 142; p. 350.

Bellows, B. F., Cleveland, Ohio, assignor to Electric Compositor Company, New York, N. Y. Universal type-mold. No. 944,408; Dec. 28; Sp. p. 5103; Gaz. vol. 149; p. 896.

Bellows, W. S., Boston, Mass. Wrench. No. 920,717; May 4; Sp. p. 1284; Gaz. vol. 142; p. 206.

Bellrud, C. A., Fairdale, N. D. Snow-plow. No. 931,559; Aug. 17; Sp. p. 4059; Gaz. vol. 145; p. 699.

Belluzzo, G., Milan, Italy. Elastic-fluid turbine. No. 910,266; Jan. 19; Sp. p. 3756; Gaz. vol. 138; p. 676.

Belluzzo, G., Milan, Italy. Variable-speed elastic-fluid turbine. No. 931,985; Aug. 24; Sp. p. 5021; Gaz. vol. 145; p. 860.

Belluzzo, G., Milan, Italy. Elastic-fluid turbine. No. 931,986; Aug. 24; Sp. p. 5023; Gaz. vol. 145; p. 860.

Belmer, C. G., Haverhill, assignor to J. Hewitt, trustee, Boston, Mass. Heel-burnishing tool. No. 937,355; Oct. 19; Sp. p. 3652; Gaz. vol. 147; p. 628.

Belonga, G. W., assignor of one-half to G. A. Jones, Lynn, Mass. Insole for boots and shoes. No. 909,138; Jan. 12; Sp. p. 1467; Gaz. vol. 138; p. 267.

Belson, R. W., Los Angeles, assignor of one-third to I. L. Dunn, Long Beach, and one-third to R. L. Barry, Los Angeles, Cal. Package. No. 928,423; July 20; Sp. p. 3583; Gaz. vol. 144; p. 634.

Belsvig, O. T., Milan, Minn. Latch. No. 926,090; June 29; Sp. p. 6292; Gaz. vol. 143; p. 1117.

Belt, W. O. (See Owen, I. J., assignor.)

Beltz, C. L., Selma, Cal. Earth-boring machine. No. 910,451; Jan. 19; Sp. p. 4130; Gaz. vol. 138; p. 740.

Beltz, F. R., *et al.* (See Beltz, W. H., assignor.)

Beltz, W. H., Springfield, assignor of one-third to F. R. Beltz, Cleveland, and one-third to C. F. Huber, Springfield, Ohio. Nut-lock. No. 942,193; Dec. 7; Sp. p. 358; Gaz. vol. 149; p. 54.

Belvedere, A. (See Zaccaria and Belvedere.)

Belyea, W. J., Fort Huron, Mich. Tire-armor. No. 927,447; July 6; Sp. p. 1505; Gaz. vol. 144; p. 249.

Belyeu, J. W., Alexander City, Ala. Gearing. No. 936,291; Oct. 12; Sp. p. 1417; Gaz. vol. 147; p. 246.

Belyu, G., Detroit, Mich. Motor attachment for bicycles. No. 928,928; July 27; Sp. p. 4610; Gaz. vol. 144; p. 827.

Beman, N., Seattle, Wash. Ballot-touch. No. 911,286; Feb. 2; Sp. p. 525; Gaz. vol. 139; p. 89.

Bemiller, D. J., Butler, Ohio. Sawdust-catching attachment for circular saws. No. 922,840; May 25; Sp. p. 5656; Gaz. vol. 142; p. 991.

Bemiller, D. J., assignor of one-half to S. Rifter, Butler, Ohio. Fan-blower. No. 927,319; July 6; Sp. p. 1251; Gaz. vol. 144; p. 20.

Bemis, G. C., Lynn, assignor to Worcester Brush & Scraper Company, Worcester, Mass. Tube-cleaner. No. 944,008; Dec. 21; Sp. p. 4263; Gaz. vol. 149; p. 733.

Bemis, G. C., Lynn, assignor to Worcester Brush & Scraper Company, Worcester, Mass. Butcher's-block scraper. No. 944,009; Dec. 21; Sp. p. 4265; Gaz. vol. 149; p. 734.

Ben Steele Weigher Manufacturing Company. (See Steele, B. M., assignor.)

Benack, L. (See Borland and Benack.)

Benard, F., Eprenay, France. Gas-distributor. No. 916,980; Apr. 6; Sp. p. 31; Gaz. vol. 141; p. 10.

Benas, B., New York, N. Y., assignor of one-half to O. Castilio, Hoboken, N. J. Interlocking building-block. No. 940,227; Nov. 16; Sp. p. 3943; Gaz. vol. 148; p. 670.

Benbow, C. A., Portland, Oreg. Rope-computing machine. No. 936,078; Oct. 5; Sp. p. 1014; Gaz. vol. 147; p. 153.

*Alphabetical list of patentees—Continued.*

- Benda, H. R., New York, N. Y. Thread-cutting clip. No. 940,228; Nov. 16; Sp. p. 3944; Gaz. vol. 148; p. 671.
- Benda, L., Frankfort-on-the-Main, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Manufacture of homologues of para-aminophenylarsinic acids. No. 913,940; Mar. 2; Sp. p. 591; Gaz. vol. 140; p. 94.
- Bender, C., Indianapolis, Ind. Bamboo lath. No. 932,099; Aug. 24; Sp. p. 5268; Gaz. vol. 145; p. 898.
- Bender, C. W., assignor of one-half to J. R. Sloan, Altoona, Pa. Battery-plate. No. 915,063; Mar. 16; Sp. p. 2885; Gaz. vol. 140; p. 515.
- Bender, J. S., Kansas City, Mo. Combined grain-door and car-door. No. 922,380; May 18; Sp. p. 4678; Gaz. vol. 142; p. 812.
- Bender, R. C., St. Louis, Mo. Oyster-carrier. No. 918,264; Apr. 13; Sp. p. 2655; Gaz. vol. 141; p. 470.
- Bender, R. C., St. Louis, Mo. Oyster-receptacle. No. 918,265; Apr. 13; Sp. p. 2656; Gaz. vol. 141; p. 471.
- Bender, W. H., Brooklyn, N. Y. Bed-covering. No. 939,585; Nov. 9; Sp. p. 2520; Gaz. vol. 148; p. 416.
- Bendixen, N. (See Brunn, O. A., assignor.)
- Bendixen, P. (See Brooks, A. A., assignor.)
- Bendixen, P. A., Salt Lake City, Utah. Pocket-protector. No. 937,280; Oct. 19; Sp. p. 3503; Gaz. vol. 147; p. 606.
- Bendle, A., Johnstown, Pa. Sprag. No. 912,062; Feb. 9; Sp. p. 2139; Gaz. vol. 139; p. 369.
- Bendz, N. N., assignor of one-half to H. Leal, Ceresco, Nebr. Display-case. No. 910,351; Jan. 19; Sp. p. 3926; Gaz. vol. 138; p. 706.
- Benedek, V., Chicago, Ill. Sheet-metal brake. No. 929,818; Aug. 3; Sp. p. 406; Gaz. vol. 145; p. 67.
- Benedict, A., Merrill, Wis. Stake for logging cars. No. 944,838; Dec. 28; Sp. p. 6054; Gaz. vol. 149; p. 1042.
- Benedict, C., *et al.* (See Hibbard, L. R., assignor.)
- Benedict, C. F., Brooklyn, assignor to S. Kanner, New York, N. Y. Razor-stropping device. No. 942,880; Dec. 14; Sp. p. 1802; Gaz. vol. 149; p. 318.
- Benedict, C. H. (See Woodbury, Harris, and Benedict.)
- Benedict, F. L., assignor of one-half to H. Jones, Jersey City, N. J. Attachment for cooking-pans. No. 937,574; Oct. 19; Sp. p. 4133; Gaz. vol. 147; p. 703.
- Benedict, J. A., New York, N. Y. Lock for sliding doors. No. 926,460; June 29; Sp. p. 7033; Gaz. vol. 143; p. 1240.
- Benedict, J. Z., Monticello, Iowa. Push-cart. No. 934,132; Sept. 14; Sp. p. 2386; Gaz. vol. 146; p. 391.
- Beneker, R., Bromberg, Germany. Ball-mill. No. 908,834; Jan. 5; Sp. p. 843; Gaz. vol. 138; p. 132.
- Beneker, J. C., Pueblo, Colo. Wire and metal cleaning bath. No. 914,916; Mar. 9; Sp. p. 2632; Gaz. vol. 140; p. 441.
- Beneker, J. C., Waukegan, assignor to Meaker Co., Chicago, Ill. Electrically coating with tin or allied metals. No. 921,943; May 18; Sp. p. 3806; Gaz. vol. 142; p. 670.
- Benford, E. M., Mount Vernon, N. Y. Ignition device. No. 908,835; Jan. 5; Sp. p. 843; Gaz. vol. 138; p. 132.
- Benger, E., New York, N. Y. Combined blanket and sleeping-bag. No. 917,403; Apr. 6; Sp. p. 900; Gaz. vol. 141; p. 155.
- Bengert, J. F. (See Fulton and Bengert.)
- Bengough, J., assignor to Carter-Crume Co., Limited, Niagara Falls, N. Y. Book-forming mechanism. No. 929,652; Aug. 3; Sp. p. 11; Gaz. vol. 145; p. 4.
- Bengtson, A., McPherson, Kans. Cartridge extracting and loading device. No. 912,643; Feb. 16; Sp. p. 3344; Gaz. vol. 139; p. 600.
- Bengtsson, B. J. (See Wiking and Bengtsson.)
- Bengtsson, O., Boda, Skillingfors, Sweden. Apparatus for charging cartridges. No. 934,787; Sept. 21; Sp. p. 3649; Gaz. vol. 146; p. 634.
- Bengué, J., Paris, France. Stoppering for bottles intended to contain volatile liquids. No. 944,765; Dec. 28; Sp. p. 5904; Gaz. vol. 149; p. 1018.
- Benham, E. B., New London, Conn., assignor to Hydrocarbon Converter Company, New York, N. Y. Method of and apparatus for converting liquid hydrocarbons into gas or vapor. No. 920,903; May 11; Sp. p. 1657; Gaz. vol. 142; p. 296.
- Benham, E. M., assignor to Banker's Dust-Proof Time Lock Company, Cincinnati, Ohio. Time-lock. No. 939,384; Nov. 9; Sp. p. 2091; Gaz. vol. 148; p. 349.
- Benham, W. T., Indianapolis, Ind. Mower. No. 911,366; Feb. 2; Sp. p. 673; Gaz. vol. 139; p. 115.
- Benjamin, C. F., Philadelphia, Pa. Expandible pulley. No. 912,442; Feb. 16; Sp. p. 2926; Gaz. vol. 139; p. 530.
- Benjamin, C. W., Roselle Park, N. J., assignor to J. G. Brill Company. Convertible car. No. 934,588; Sept. 21; Sp. p. 3652; Gaz. vol. 146; p. 634.
- Benjamin, D. A., assignor to Studio Printing & Box Company, Toledo, Ohio. Easel. No. 930,338; Aug. 10; Sp. p. 1446; Gaz. vol. 145; p. 264.
- Benjamin, E. A., San Diego, Cal. Key-holder for locks. No. 911,109; Feb. 2; Sp. p. 163; Gaz. vol. 139; p. 31.
- Benjamin, E. A., assignor of one-half to G. W. Peck, San Diego, Cal. Snap. No. 932,673; Aug. 31; Sp. p. 6452; Gaz. vol. 145; p. 1113.
- Benjamin Eastwood Company. (See Adsit, G., assignor.)
- Benjamin Eastwood Company. (See Davis and Berry, assignors.)
- Benjamin Eastwood Company. (See Eastwood, J., assignor.)
- Benjamin Electric Manufacturing Company. (See Benjamin, R. B., assignor.)
- Benjamin Electric Manufacturing Company. (See Weeks, N., assignor.)
- Benjamin, F., assignor of one-half to I. W. Copeland, Troy, N. Y. Ice-cream dipper. No. 925,275; June 15; Sp. p. 4607; Gaz. vol. 143; p. 787.
- Benjamin, G., Philadelphia, Pa., and W. Handley, Camden, N. J. Phonograph-horn. No. 917,404; Apr. 6; Sp. p. 902; Gaz. vol. 141; p. 156.
- Benjamin, J. E., Rochester, N. Y. Revolvable account-register. No. 943,961; Dec. 21; Sp. p. 4141; Gaz. vol. 149; p. 718.
- Benjamin, L. J., Clio, Mich. Safety hitching device. No. 934,707; Sept. 21; Sp. p. 3491; Gaz. vol. 146; p. 607.
- Benjamin, M., Atlanta, Ga., assignor to Benjamin Pulverizer Co. Bearing for pulverizing-mills. No. 937,203; Oct. 19; Sp. p. 3332; Gaz. vol. 147; p. 579.
- Benjamin, M. W., Waterloo, assignor of one-half to A. Mercurio, Blackhawk county, Iowa. Display-stand. No. 917,705; Apr. 6; Sp. p. 1445; Gaz. vol. 141; p. 254.
- Benjamin, N., Elmira, N. Y. Splice-bar for rail-joints. No. 934,270; Sept. 14; Sp. p. 2636; Gaz. vol. 146; p. 437.
- Benjamin Pulverizer Co. (See Benjamin, M., assignor.)
- Benjamin, R. B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plural lamp-socket. No. 912,529; Feb. 16; Sp. p. 3117; Gaz. vol. 139; p. 560.
- Benjamin, R. B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Lamp-socket. No. 916,829; Mar. 30; Sp. p. 6398; Gaz. vol. 140; p. 1144.
- Benjamin, R. B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plural lamp-socket. No. 916,909; Mar. 30; Sp. p. 6565; Gaz. vol. 140; p. 1170.
- Benjamin, R. B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plural lamp-socket. (Reissue.) No. 12,931; Mar. 30; Sp. p. 6672; Gaz. vol. 140; p. 1189.
- Benjamin, R. B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plural lamp-socket. No. 931,721; Aug. 24; Sp. p. 4442; Gaz. vol. 145; p. 774.
- Benjamin, R. B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Cluster lamp-socket. No. 931,722; Aug. 24; Sp. p. 4446; Gaz. vol. 145; p. 774.
- Benjamin, R. B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Cluster lamp-socket. No. 936,512; Oct. 12; Sp. p. 1935; Gaz. vol. 147; p. 319.
- Benjamin, R. B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Wireless cluster. No. 938,631; Nov. 2; Sp. p. 417; Gaz. vol. 148; p. 63.
- Benjamin, R. B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Cluster lamp-socket. No. 938,632; Nov. 2; Sp. p. 420; Gaz. vol. 148; p. 64.
- Benjamin, R. B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plural-lamp-holding device. No. 942,240; Dec. 7; Sp. p. 454; Gaz. vol. 149; p. 70.
- Benjamin, R. B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plural lamp-socket. No. 942,241; Dec. 7; Sp. p. 459; Gaz. vol. 149; p. 71.
- Benjamin, R. B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plural-lamp-holding device. No. 942,242; Dec. 7; Sp. p. 461; Gaz. vol. 149; p. 71.
- Benjaminowitsch, W., assignor of one-half to A. Lohmann, Berlin, Germany. Paper-feed mechanism. No. 943,622; Dec. 14; Sp. p. 3428; Gaz. vol. 149; p. 572.
- Benke, C. A., Detroit, Mich., assignor to J. H. McElroy, Chicago, Ill. Voting-machine. No. 932,750; Aug. 31; Sp. p. 6601; Gaz. vol. 145; p. 1138.
- Benkö, S., Budapest, Austria-Hungary. Securing metal contacts to carbon electrodes. No. 942,704; Dec. 7; Sp. p. 1389; Gaz. vol. 149; p. 228.
- Benner, A., Detroit, Mich. Twyer-block. No. 935,954; Oct. 5; Sp. p. 755; Gaz. vol. 147; p. 112.
- Benner, H. W., Chambersburg, Pa. Water and coal gas manufacturing apparatus. No. 918,727; Apr. 20; Sp. p. 3684; Gaz. vol. 141; p. 653.
- Benner, R. E. (See Vincent and Benner.)
- Benner, R. E., assignor to Burroughs Adding Machine Company, Detroit, Mich. Automatic ink-ribbon-reversing mechanism. No. 941,554; Nov. 30; Sp. p. 6840; Gaz. vol. 148; p. 1158.
- Bennett, A. C., Minneapolis, Minn. Carbureter. No. 927,211; July 6; Sp. p. 1058; Gaz. vol. 144; p. 171.
- Bennett, A. J., Cambridge, Ohio. Lemon-squeezer. No. 912,443; Feb. 16; Sp. p. 2929; Gaz. vol. 139; p. 531.



*Alphabetical list of patentees—Continued.*

- Bennett, A. J., Cambridge, Ohio. Lemon-squeezer. No. 922,449; May 25; Sp. p. 4840; Gaz. vol. 142; p. 864.
- Bennett, A. J., Cambridge, Ohio. Condiment-holder. No. 924,959; June 15; Sp. p. 3992; Gaz. vol. 143; p. 682.
- Bennett, A. J. A., Seattle, Wash. Wheel-block. No. 942,161; Dec. 7; Sp. p. 289; Gaz. vol. 149; p. 45.
- Bennett, B. B., Plymouth, Mich. Game. No. 927,631; July 13; Sp. p. 1931; Gaz. vol. 144; p. 338.
- Bennett, C. F., Bridgeport, Conn. Hat-baking oven. No. 933,413; Sept. 7; Sp. p. 851; Gaz. vol. 146; p. 133.
- Bennett, C. H., Corning, N. Y. Attachment for wooden railway-ties. No. 923,004; May 25; Sp. p. 5981; Gaz. vol. 142; p. 1043.
- Bennett, C. H., Dalton, Mass. Overshoe for horses and other hoofed animals. No. 944,409; Dec. 28; Sp. p. 5106; Gaz. vol. 149; p. 896.
- Bennett, E., Oakhurst, N. J. Folding square. No. 927,096; July 6; Sp. p. 838; Gaz. vol. 144; p. 134.
- Bennett, E. B., Boston, Mass. Razor-blade. No. 910,487; Jan. 26; Sp. p. 4217; Gaz. vol. 138; p. 776.
- Bennett, E. R., and M. I. Ekern, Flandreau, S. D. Steam thawing-machine. No. 930,131; Aug. 3; Sp. p. 1075; Gaz. vol. 145; p. 173.
- Bennett, E. S., New York, N. Y. Mining machinery. No. 914,917; Mar. 9; Sp. p. 2633; Gaz. vol. 140; p. 441.
- Bennett, E. S., New York, N. Y. Shovel-car. No. 922,450; May 25; Sp. p. 4841; Gaz. vol. 142; p. 864.
- Bennett, F. G., *et al.* (See Moritz, A., assignor.)
- Bennett, G. L., assignor of two-thirds to J. Putnam and W. J. Condit, Topeka, Kans. Chuck for boring and turning locomotive-tires, &c. No. 921,066; May 11; Sp. p. 1988; Gaz. vol. 142; p. 350.
- Bennett, H. E. (See Reynolds and Bennett.)
- Bennett, H. J. (See Covington, J. C., assignor.)
- Bennett, H. J., Shabbona, Mich. Beet-harvester. No. 930,339; Aug. 10; Sp. p. 1447; Gaz. vol. 145; p. 264.
- Bennett, J. J. (See Blessing, Aten, and Poirier, assignors.)
- Bennett, J. J., Pittsfield, Mass. Trolley-head. No. 939,653; Nov. 9; Sp. p. 2672; Gaz. vol. 148; p. 442.
- Bennett Manufacturing Company. (See Vasey, J. D., assignor.)
- Bennett, N. W., Belgrade, Mont. Bridle-bit. No. 930,827; Aug. 10; Sp. p. 2470; Gaz. vol. 145; p. 427.
- Bennett, R., Chicago, Ill. Retort. No. 912,644; Feb. 16; Sp. p. 3346; Gaz. vol. 139; p. 600.
- Bennett, R. M., Indianapolis, Ind. Belt-fastener. No. 928,840; July 20; Sp. p. 4420; Gaz. vol. 144; p. 770.
- Bennett, S. G., Heath Town, Wolverhampton, England. Construction of electric tramways. No. 921,665; May 18; Sp. p. 3253; Gaz. vol. 142; p. 578.
- Bennett, S. W., assignor of one-half to E. N. Hutchins, Somerville, Mass. Mattress or bottom attachment for bedsteads. No. 909,524; Jan. 12; Sp. p. 2207; Gaz. vol. 138; p. 392.
- Bennett, S. W., assignor of one-half to E. N. Hutchins, Somerville, Mass. Supporting and stretching device for woven-wire springs. No. 916,655; Mar. 30; Sp. p. 6091; Gaz. vol. 140; p. 1092.
- Bennett, W., assignor to Winchester Repeating Arms Co., New Haven, Conn. Adjustable wind-gage rear sight for small-arms. No. 922,077; May 18; Sp. p. 4085; Gaz. vol. 142; p. 714.
- Bennett, W. A., Warren, Pa. Fastening for harrow-teeth, &c. No. 930,925; Aug. 10; Sp. p. 2684; Gaz. vol. 145; p. 459.
- Bennett, W. E., London, England. Apparatus for distilling mercury from gold amalgam. No. 937,356; Oct. 19; Sp. p. 3655; Gaz. vol. 147; p. 629.
- Bennett, W. E., Portsmouth, N. H., assignor to Morley Button Manufacturing Company, Boston, Mass. Machine for setting fasteners. No. 939,200; Nov. 9; Sp. p. 1618; Gaz. vol. 148; p. 286.
- Bennett, W. T., Goldfield, Nev. Motor-plow. No. 941,291; Nov. 23; Sp. p. 6298; Gaz. vol. 148; p. 1053.
- Bennett, W. T., Grants Pass, Oreg., assignor of forty one-hundredths to N. E. Roan, Kent, Wash. Pipe-wrench. No. 930,132; Aug. 3; Sp. p. 1077; Gaz. vol. 145; p. 174.
- Bennick, H., assignor of one-half to S. Cole, Huntsville, Tex. Envelop-seal. No. 914,918; Mar. 9; Sp. p. 2635; Gaz. vol. 140; p. 442.
- Bennie, P. M. (See Brindley and Bennie.)
- Bennie, P. M. (See Fitz Gerald and Bennie.)
- Benningshofen, C. (See Krauth, A., assignor.)
- Benningshoff, W. G., Wilkinsburg, Pa. Valve. No. 910,163; Jan. 19; Sp. p. 3477; Gaz. vol. 138; p. 637.
- Bennion, C., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Press. No. 918,728; Apr. 20; Sp. p. 3686; Gaz. vol. 141; p. 654.
- Bennitt, F., trustee. (See Dwight, A. S., assignor.)
- Bennitt, F., trustee. (See Dwight and Lloyd, assignors.)
- Bennor, J., Macon, assignor to Comfort-Bennor Tie Company, Tifton, Ga. Package-tie. No. 924,594; June 8; Sp. p. 3211; Gaz. vol. 143; p. 525.
- Benson, G. J., Seattle, Wash. Level. No. 937,357; Oct. 19; Sp. p. 3656; Gaz. vol. 147; p. 629.
- Benson, A. D., New York, N. Y., and J. F. Harris, Hoboken, N. J. Razor-sharpening device. No. 940,298; Nov. 16; Sp. p. 4108; Gaz. vol. 148; p. 694.
- Benson, C., Chicago, Ill. Belt-oiling device. No. 924,417; June 8; Sp. p. 2862; Gaz. vol. 143; p. 467.
- Benson, C. B., Tippicanoe City, Ohio. Tongue-depressor. No. 922,078; May 18; Sp. p. 4087; Gaz. vol. 142; p. 715.
- Benson, C. B., Tippicanoe City, Ohio. Instrument and medicine case. No. 941,608; Nov. 30; Sp. p. 6949; Gaz. vol. 148; p. 1176.
- Benson, E., La Crosse, Wis. Folding crate. No. 936,696; Oct. 12; Sp. p. 2311; Gaz. vol. 147; p. 383.
- Benson, F. P., Hutchinson, Kans. Exhaust-valve mechanism for gas-engines. No. 931,839; Aug. 24; Sp. p. 4685; Gaz. vol. 145; p. 812.
- Benson, G. V., Chicago, Ill. Internal-combustion engine. No. 938,633; Nov. 2; Sp. p. 421; Gaz. vol. 148; p. 64.
- Benson, H. V., assignor to Benson Lawn Mower Co., Rockford, Ill. Lawn-mower. No. 943,857; Dec. 21; Sp. p. 3919; Gaz. vol. 149; p. 682.
- Benson, I. N., assignor of one-half to Palace Automobile Station Company, Hartford, Conn. Horn. No. 925,418; June 15; Sp. p. 4861; Gaz. vol. 143; p. 831.
- Benson, J. (See Graves and Benson.)
- Benson, J., Amesbury, Mass. Vehicle-seat. No. 936,513; Oct. 12; Sp. p. 1937; Gaz. vol. 147; p. 320.
- Benson, J. L., Winnipeg, Manitoba, Canada. Crown for teeth. No. 921,791; May 18; Sp. p. 3492; Gaz. vol. 142; p. 621.
- Benson, J. W., North Wayne, Me. Spring-wheel. No. 924,724; June 15; Sp. p. 3507; Gaz. vol. 143; p. 603.
- Benson, L. P., Karlstad, Minn. Adjustable attachment for receptacles. No. 928,841; July 20; Sp. p. 4421; Gaz. vol. 144; p. 770.
- Benson, L. R., Ellsworth, Kans. Soldering-stick. No. 923,934; June 8; Sp. p. 1844; Gaz. vol. 143; p. 307.
- Benson Lawn Mower Co. (See Benson, H. H., assignor.)
- Benson, O. (See Cunniff, Coderre, and Benson.)
- Benson, S. (See James, Benson, and Wilson.)
- Benson, V. A., Los Angeles, Cal. Adjustable door-hanger. No. 908,836; Jan. 5; Sp. p. 845; Gaz. vol. 138; p. 133.
- Benson, W. C., Mounts, Ind. Pitman connection. No. 912,277; Feb. 16; Sp. p. 2582; Gaz. vol. 139; p. 475.
- Benson, W. E., Benson, Ala. Coupling or connector. No. 912,788; Feb. 16; Sp. p. 3669; Gaz. vol. 139; p. 650.
- Bent, G. W., Hyde Park, Mass. Mattress-supporting frame. No. 915,064; Mar. 16; Sp. p. 2886; Gaz. vol. 140; p. 515.
- Bent, G. W., Hyde Park, Mass. Caster. No. 940,780; Nov. 23; Sp. p. 5193; Gaz. vol. 148; p. 882.
- Bent, L. N., and H. Talley, Carthage, assignors to Independent Powder Company of Missouri, Joplin, Mo. Explosive. No. 943,589; Dec. 14; Sp. p. 3318; Gaz. vol. 149; p. 559.
- Bente, F. H. (See Hoffer, Whitesell, and Bente.)
- Benthall, J. T., Suffolk, Va. Peanut picker and stemmer. No. 925,983; June 22; Sp. p. 6054; Gaz. vol. 143; p. 1047.
- Bentham, J. A. (See Kelly and Bentham.)
- Bentley, C. W., Binghamton, N. Y. Storage-battery jar. No. 915,328; Mar. 16; Sp. p. 3451; Gaz. vol. 140; p. 602.
- Bentley, F. P., Niles, Ohio. Spray-trough. No. 930,926; Aug. 10; Sp. p. 2685; Gaz. vol. 145; p. 460.
- Bentley, H., Whitehaven, England. Roller-bearing for trough-conveyers, &c. No. 941,972; Nov. 30; Sp. p. 7731; Gaz. vol. 148; p. 1302.
- Bentley & Jackson. (See Simpson, A. E., assignor.)
- Bentley, M. S., Los Angeles, Cal. Matrix-drying press. No. 921,067; May 11; Sp. p. 1990; Gaz. vol. 142; p. 350.
- Bentley, O. D. H., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Rod steam-packing. No. 935,955; Oct. 5; Sp. p. 757; Gaz. vol. 147; p. 112.
- Bentley, O. D. H., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Turbine. No. 935,956; Oct. 5; Sp. p. 758; Gaz. vol. 147; p. 113.
- Bentley, O. D. H., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Steam-packing. No. 937,916; Oct. 26; Sp. p. 4828; Gaz. vol. 147; p. 834.
- Bentley, O. D. H., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Turbine. No. 944,839; Dec. 28; Sp. p. 6055; Gaz. vol. 149; p. 1042.
- Benton, A., and C. D. Jordan, Monticello, Ga. Cultivator. No. 935,578; Sept. 28; Sp. p. 5254; Gaz. vol. 146; p. 921.
- Benton, C. O., Grainfield, Kans. Railway-tie. No. 910,452; Jan. 19; Sp. p. 4132; Gaz. vol. 138; p. 741.
- Benton, B., Clyde, Ga. Adding-machine. No. 916,411; Mar. 30; Sp. p. 5586; Gaz. vol. 140; p. 1012.
- Benton, G. H., Metuchen, N. J. Valve. No. 923,616; June 1; Sp. p. 1133; Gaz. vol. 143; p. 173.
- Benton, H. P., Minneapolis, Minn. Storm-sash hanger. No. 930,453; Aug. 10; Sp. p. 1667; Gaz. vol. 145; p. 302.
- Benton, J. L., Los Angeles, Cal. Portable shutter-lock. No. 909,525; Jan. 12; Sp. p. 2209; Gaz. vol. 138; p. 392.

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- Benton, L. B., Plainfield, assignor to American Type Founders Company, Jersey City, N. J. Depth-gage. No. 931,253; Aug. 17; Sp. p. 3443; Gaz. vol. 145; p. 598.
- Bonwitz, H. C., Chicago, Ill. Regulating-valve. No. 928,732; July 20; Sp. p. 4212; Gaz. vol. 144; p. 734.
- Bonyo, J., Milwaukee, Wis. Propeller for vessels. No. 918,948; Apr. 20; Sp. p. 4155; Gaz. vol. 141; p. 726.
- Benzing, A. M., Keystone, Iowa. Poultry-coop. No. 941,300; Nov. 23; Sp. p. 6301; Gaz. vol. 148; p. 1054.
- Benzon, G. H., Jr., assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Feed mechanism for metal-planing machines and the like. No. 911,566; Feb. 9; Sp. p. 1059; Gaz. vol. 139; p. 207.
- Berard, J. S., Fall River, Mass. Tension-regulating device for spindle-bands. No. 941,183; Nov. 23; Sp. p. 6056; Gaz. vol. 148; p. 1016.
- Beraud, H., and E. J. Aché, Plaquemine, La. Detachable hose-coupling. No. 913,351; Feb. 23; Sp. p. 4797; Gaz. vol. 139; p. 860.
- Berbecker, J., Waterbury, assignor to Berbecker & Rowland Manufacturing Company, Waterville, Conn. Bracket. No. 912,789; Feb. 16; Sp. p. 3700; Gaz. vol. 139; p. 650.
- Berbecker & Rowland Manufacturing Company. (See Berbecker, J., assignor.)
- Berbecker & Rowland Manufacturing Company. (See Laun, C. F., assignor.)
- Berberich, F. M., Kiel, Germany. Milking cows. No. 942,243; Dec. 7; Sp. p. 463; Gaz. vol. 149; p. 71.
- Bercha, J., Beatrice, Nebr. Grinding-mill. No. 942,768; Dec. 7; Sp. p. 1521; Gaz. vol. 149; p. 249.
- Berchoux, G. de. (See Petit and Berchoux.)
- Berdan, A., Ortonville, Minn. Door-fastener. No. 941,057; Nov. 23; Sp. p. 5767; Gaz. vol. 148; p. 973.
- Berend, O. J., Milwaukee, Wis. Safety device for railways. No. 939,201; Nov. 9; Sp. p. 1621; Gaz. vol. 148; p. 286.
- Berendes, R., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Alkyl esters of methylene citric acid. No. 921,944; May 18; Sp. p. 3807; Gaz. vol. 142; p. 670.
- Berens, A., Chicago, Ill. Lawn-mower. No. 944,712; Dec. 28; Sp. p. 5779; Gaz. vol. 149; p. 1000.
- Beresford, W., Liverpool, England. Time-recorder. No. 931,254; Aug. 17; Sp. p. 3445; Gaz. vol. 145; p. 598.
- Berg, A., St. Louis, Mo. Recovering waste alcohol from liquor casks or barrels. No. 911,367; Feb. 2; Sp. p. 674; Gaz. vol. 139; p. 115.
- Berg, A. and J., Toronto, Ontario, Canada. Brick-press. No. 932,674; Aug. 31; Sp. p. 6454; Gaz. vol. 145; p. 1113.
- Berg, E. F., New York, N. Y. Bottle. No. 930,133; Aug. 3; Sp. p. 1078; Gaz. vol. 145; p. 174.
- Berg, E. J., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 910,164; Jan. 19; Sp. p. 3479; Gaz. vol. 138; p. 637.
- Berg, E. J., Schenectady, N. Y., assignor to General Electric Company. Turbo-generator. No. 910,165; Jan. 19; Sp. p. 3484; Gaz. vol. 138; p. 637.
- Berg, E. J., Schenectady, N. Y., assignor to General Electric Company. Parallel operation of rotary converters and storage batteries. No. 916,981; Apr. 6; Sp. p. 32; Gaz. vol. 141; p. 10.
- Berg, E. J., Schenectady, N. Y., assignor to General Electric Company. Voltage-regulator. No. 916,982; Apr. 6; Sp. p. 34; Gaz. vol. 141; p. 10.
- Berg, E. L., Salina, Kans. Flower-support for caskets. No. 917,839; Apr. 13; Sp. p. 1760; Gaz. vol. 141; p. 823.
- Berg, F. L., Owatonna, Minn. Wheel-tire. No. 941,058; Nov. 23; Sp. p. 5769; Gaz. vol. 148; p. 974.
- Berg, F. O., Spokane, Wash. Awning-fixture. No. 940,120; Nov. 16; Sp. p. 3715; Gaz. vol. 148; p. 633.
- Berg, G. C., San Francisco, Cal. Making composite ships' plates. No. 936,514; Oct. 12; Sp. p. 1939; Gaz. vol. 147; p. 320.
- Berg, H. E. (See Hauge, O., assignor.)
- Berg, J. (See Berg, A. and J.)
- Berg, J. (See Kallis and Berg.)
- Berg, J., Chicago, Ill. Combined cigar and cigarette holder and smoking-pipe. No. 924,418; June 8; Sp. p. 2863; Gaz. vol. 143; p. 468.
- Berg, J., Chicago, Ill. Non-refillable bottle. No. 941,184; Nov. 23; Sp. p. 6057; Gaz. vol. 148; p. 1016.
- Berg, J., Chicago, Ill. Sounding toy. No. 942,162; Dec. 7; Sp. p. 291; Gaz. vol. 149; p. 45.
- Berg, L. (See Noerdlinger, Caroselli, and Berg.)
- Berg, L. J. (See Dunbar and Berg.)
- Berg, L. J., assignor to Metallic Sheathing Company, Chicago, Ill. Window-lifting mechanism. No. 932,370; Aug. 24; Sp. p. 5784; Gaz. vol. 145; p. 988.
- Berg, L. J., Chicago, Ill., assignor to Metallic Sheathing Company. Metallic sheathing. No. 936,232; Oct. 5; Sp. p. 1303; Gaz. vol. 147; p. 200.
- Berg, L. J., assignor to Metallic Sheathing Company, Chicago, Ill. Transom-ratchet. No. 938,952; Nov. 2; Sp. p. 1099; Gaz. vol. 148; p. 175.
- Berg, M., Battle Lake, Minn. Valve-gear. No. 923,935; June 8; Sp. p. 1845; Gaz. vol. 143; p. 308.
- Berg, P. T. (See Stevens, R. H., assignor.)
- Berg, W. G., deceased, M. Burke, Washington, D. C., R. N. Valentine, Woodbridge, N. J., and P. H. De Witt, Weatherly, Pa., executors, assignors to Link-Belt Company, Philadelphia, Pa., and Chicago, Ill. Chute. No. 918,418; Apr. 13; Sp. p. 2947; Gaz. vol. 141; p. 519.
- Bergdolt, A., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 912,356; Feb. 16; Sp. p. 2753; Gaz. vol. 139; p. 501.
- Bergell, P. (See Fischer and Bergell.)
- Bergell, P., assignor to Firm of J. A. Wülfing, Berlin, Germany. Making milk for infants. No. 934,133; Sept. 14; Sp. p. 2358; Gaz. vol. 146; p. 391.
- Bergeman, C. L., Pottsville, Pa. Lawn-mower. No. 923,403; June 1; Sp. p. 666; Gaz. vol. 143; p. 97.
- Bergen, A. A. (See Meyer, R. J., assignor.)
- Bergen Foundry *et al.* (See Brent, J. T., Second, assignor.)
- Bergen, L. (See McConnell, P. H., assignor.)
- Bergen Point Iron Works. (See Smith, A., assignor.)
- Bergener, C., assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Lantern. No. 920,525; May 4; Sp. p. 873; Gaz. vol. 142; p. 141.
- Bergener, C., assignor to C. T. Ham Manufacturing Company, Rochester, N. Y. Tubular lantern. No. 927,767; July 13; Sp. p. 2213; Gaz. vol. 144; p. 383.
- Berger, B. A., assignor to B. A. Berger Manufacturing Company, Incorporated, Richmond, Va. Sink or shelf bracket. No. 918,415; Apr. 13; Sp. p. 2941; Gaz. vol. 141; p. 518.
- Berger, F., Philadelphia, Pa. Vehicle-spring. No. 932,241; Aug. 24; Sp. p. 5550; Gaz. vol. 145; p. 945.
- Berger Manufacturing Company. (See Schade, C. K., assignor.)
- Berger Manufacturing Company. (See Schlafly, J. H., assignor.)
- Berger, W., and E. H. Beazell, Canonsburg, assignors to Fort Pitt Bridge Works, Pittsburg, Pa. Templet drilling and reaming device. No. 913,455; Feb. 23; Sp. p. 5011; Gaz. vol. 139; p. 895.
- Berger, W. A., Boston, Mass. Lateral adjuster for surveying instruments. No. 918,817; Apr. 20; Sp. p. 3863; Gaz. vol. 141; p. 682.
- Berger, W. A., Boston, Mass. Mining-transit-center finder. No. 944,654; Dec. 28; Sp. p. 5653; Gaz. vol. 149; p. 981.
- Bergeron, M., assignor of one-half to H. E. Lewis, Haverhill, Mass. Fastener for shoe-uppers. No. 912,226; Feb. 9; Sp. p. 2426; Gaz. vol. 139; p. 419.
- Bergeron, T. (See Fulton and Bergeron.)
- Bergh, C. E., Hendrum, Minn. Shade-holder. No. 932,952; Aug. 31; Sp. p. 7001; Gaz. vol. 145; p. 1203.
- Bergh, H., New York, N. Y. Instrument for slaughtering animals. No. 910,775; Jan. 26; Sp. p. 4803; Gaz. vol. 138; p. 869.
- Berglund, C. (See Lohr and Berglund.)
- Berglund, C. H. (See Fitton and Berglund.)
- Bergman, A. J. A., Varamo, Sweden. Apparatus for cutting lard or the like. No. 944,410; Dec. 28; Sp. p. 5108; Gaz. vol. 149; p. 897.
- Bergman, J. T. (See Norton, C. E., assignor.)
- Bergman, S. R., Lynn, Mass., assignor to General Electric Company. Regulating device for alternating-current circuits. No. 916,983; Apr. 6; Sp. p. 35; Gaz. vol. 141; p. 11.
- Bergman, S. R., Lynn, Mass., assignor to General Electric Company. Induction-motor. No. 919,527; Apr. 27; Sp. p. 5531; Gaz. vol. 141; p. 950.
- Bergman, S. R., Lynn, Mass., assignor to General Electric Company. Single-phase motor. No. 924,725; June 15; Sp. p. 3509; Gaz. vol. 143; p. 603.
- Bergman, S. R., Lynn, Mass., assignor to General Electric Company. Induction-motor. No. 936,292; Oct. 12; Sp. p. 1420; Gaz. vol. 147; p. 247.
- Bergman, S. R., Lynn, Mass., assignor to General Electric Company. Protective device for electric circuits. No. 940,578; Nov. 16; Sp. p. 4739; Gaz. vol. 148; p. 789.
- Bergman, W. O. H., Bottineau, N. D. Whiffletree-hook. No. 916,830; Mar. 30; Sp. p. 6401; Gaz. vol. 140; p. 1144.
- Bergmann, C. W., Cleveland, Ohio. Power-hacksaw. No. 944,060; Dec. 21; Sp. p. 4375; Gaz. vol. 149; p. 754.
- Bergmann Elektrizitäts Werke Aktiengesellschaft. (See Emden, F., assignor.)
- Bergmann-Elektrizitäts-Werke Aktiengesellschaft. (See Evans, E., assignor.)
- Bergmann Elektrizitäts Werke Aktiengesellschaft. (See Hissink, J., assignor.)



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 Bergquam, I. K., and C. Bjerke, Grafton, N. D. Box-lid holder and box-opener. No. 914,919; Mar. 9; Sp. p. 2636; Gaz. vol. 140; p. 442.  
 Berquist, E., assignor to Eagle Pencil Company, New York, N. Y. Mechanical pencil. No. 928,733; July 20; Sp. p. 4215; Gaz. vol. 144; p. 734.  
 Bergquist, J. (See Nicklin and Bergquist.)  
 Bergquist, J., Los Angeles, Cal., assignor to Cudahy Packing Co., Chicago, Ill. Hanger. No. 914,013; Mar. 2; Sp. p. 784; Gaz. vol. 140; p. 120.  
 Bergrén, J. A., and J. H. Moan, Lake Park, Minn. Lath-machine. No. 909,139; Jan. 12; Sp. p. 1468; Gaz. vol. 138; p. 267.  
 Bergström, A. E. T. (See Näsén and Bergström.)  
 Bergstrom, J. A. (See Halpenry and Bergstrom.)  
 Bering, J. L., Gainesville, Tex. Safety railway-truck air-brake appliance. No. 932,675; Aug. 31; Sp. p. 6459; Gaz. vol. 145; p. 1114.  
 Beriozzi, A., San Francisco, Cal. Aeroplane flying-machine. No. 923,936; June 8; Sp. p. 1847; Gaz. vol. 143; p. 308.  
 Berkemeyer, S. A. (See Hanley, J., assignor.)  
 Berkhouse, O. R., E. McConville, and E. K. Patrick, Heilwood, Pa. Car-coupling. No. 925,276; June 15; Sp. p. 4608; Gaz. vol. 143; p. 788.  
 Berkley, O. V., Flat Lick, assignor of one-half to L. A. Turner, Middlesboro, Ky. Railroad-rail joint. No. 919,681; Apr. 27; Sp. p. 5846; Gaz. vol. 141; p. 1003.  
 Berkowitz, L. I., Boston, Mass. Meat-rack. No. 911,567; Feb. 9; Sp. p. 1060; Gaz. vol. 139; p. 207.  
 Berkstresser, R. H., York, Pa. Gun-barrel and producing the same. No. 930,927; Aug. 10; Sp. p. 2686; Gaz. vol. 145; p. 460.  
 Berliet, M., Lyon, France. Explosive-engine. No. 920,417; May 4; Sp. p. 671; Gaz. vol. 142; p. 106.  
 Berliet, M., Lyon, France. Reversible petroleum and compressed-air motor. No. 929,540; July 27; Sp. p. 5853; Gaz. vol. 144; p. 1029.  
 Berlin-Anhaltische Maschinenbau Actiengesellschaft. (See Steil, E., assignor.)  
 Berlin, H. H., *et al.* (See Fiebigler, H. B., assignor.)  
 Berlin Machine Works. (See Hammer, G. O., assignor.)  
 Berlin Machine Works. (See Ross, H. B., assignor.)  
 Berlin Machine Works. (See Ross and Gates, assignors.)  
 Berlin Machine Works. (See Ross, Stevens, and Gates, assignors.)  
 Berlin Machine Works. (See Stevens, B. D., assignor.)  
 Berliner, E. (See Berliner, J., assignor.)  
 Berliner, E., Washington, D. C. Joint. No. 926,974; July 6; Sp. p. 556; Gaz. vol. 144; p. 91.  
 Berliner, E., Washington, D. C. Internal-combustion engine. No. 928,842; July 20; Sp. p. 4422; Gaz. vol. 144; p. 770.  
 Berliner, E. M., Washington, D. C. Record for sound-reproducing machines. No. 936,976; Oct. 12; Sp. p. 2851; Gaz. vol. 147; p. 475.  
 Berliner, J., Hanover, Germany, assignor to E. Berliner, Washington, D. C. Superheater for use in connection with vulcanizers and other apparatus. No. 939,956; Nov. 9; Sp. p. 3311; Gaz. vol. 148; p. 546.  
 Berling, J. J. (See Bainter and Berling.)  
 Berlinger, E., New York, N. Y. Railway portable couch. No. 918,266; Apr. 13; Sp. p. 2658; Gaz. vol. 141; p. 471.  
 Berlizheimer, D. T., Philadelphia, Pa. Stop mechanism for knitting-machines. No. 916,094; Mar. 23; Sp. p. 4981; Gaz. vol. 140; p. 883.  
 Bernard, G. B. (See Bracht and Bernard.)  
 Bernard, J., Richmond, Va. Aerial navigating apparatus. No. 910,488; Jan. 26; Sp. p. 4218; Gaz. vol. 138; p. 776.  
 Bernard, J. L., Ambridge, Pa. Punching-machine. No. 938,453; Oct. 26; Sp. p. 6027; Gaz. vol. 147; p. 1017.  
 Bernard, F., Jefferson, S. D. Stock-waterer. No. 925,984; June 22; Sp. p. 6056; Gaz. vol. 143; p. 1047.  
 Bernard, F. J., Chicago, Ill. Locking-clamp. No. 911,936; Feb. 9; Sp. p. 1781; Gaz. vol. 139; p. 328.  
 Bernard, P. J., Union Hall, Va. Level. No. 920,718; May 4; Sp. p. 1285; Gaz. vol. 142; p. 206.  
 Bernardi, A., London, England. Stage-scenery for theaters. No. 919,308; Apr. 27; Sp. p. 5046; Gaz. vol. 141; p. 876.  
 Bernardi, F. (See Sauve and Bernardi.)  
 Bernardino, A. L., Evansville, Ind. Retinning-machine. No. 928,172; July 13; Sp. p. 3028; Gaz. vol. 144; p. 517.  
 Berne, F. A., Birmingham, Ala., assignor to Southern Ferro-Concrete Company, Atlanta, Ga. Train-shed. No. 910,776; Jan. 26; Sp. p. 4906; Gaz. vol. 138; p. 869.  
 Berne, W. H., Cheviot, Ohio. Card or paper holder. No. 911,287; Feb. 2; Sp. p. 527; Gaz. vol. 139; p. 90.  
 Bernegau, C. M., Hoboken, N. J. Anemometer. No. 943,962; Dec. 21; Sp. p. 4146; Gaz. vol. 149; p. 718.  
 Berner, A., Munich, Germany. Pneumatic power-hammer. No. 942,163; Dec. 7; Sp. p. 293; Gaz. vol. 149; p. 45.  
 Berner, P. B. T., assignor to Searchlight Horn Company, New York, N. Y. Phonograph-horn. No. 926,235; June 29; Sp. p. 6615; Gaz. vol. 143; p. 1167.  
 Bernesser, V. F., and J. J. Crotty, New York, N. Y. Tank-valve. No. 930,454; Aug. 10; Sp. p. 1669; Gaz. vol. 145; p. 302.  
 Bernhard, A. H., Mill Valley, Cal. Gaseous-fuel burner. No. 917,405; Apr. 6; Sp. p. 903; Gaz. vol. 141; p. 156.  
 Bernhard, J. B., assignor to Thatcher Furnace Company, Newark, N. J. Furnace-grate. No. 917,406; Apr. 6; Sp. p. 904; Gaz. vol. 141; p. 156.  
 Bernhard, R., Milwaukee, Wis., assignor to Power and Mining Machinery Company, Jersey City, N. J. Crusher-head. No. 938,546; Nov. 2; Sp. p. 240; Gaz. vol. 148; p. 35.  
 Bernhard, R., Milwaukee, Wis., assignor to Power and Mining Machinery Company, Jersey City, N. J. Crusher-head. No. 938,953; Nov. 2; Sp. p. 1101; Gaz. vol. 148; p. 175.  
 Bernhardt Manufacturing Company. (See Bernhardt, Good, and Gerling, assignors.)  
 Bernhardt, P., T. L. Good, and C. H. Gerling, assignors, by mesne assignments, to Bernhardt Manufacturing Company, Edwardsville, Ill. Potato-planter. No. 931,178; Aug. 17; Sp. p. 3278; Gaz. vol. 145; p. 572.  
 Bernheim, C. L. (See Cooper, S., assignor.)  
 Bernier, J. B., Lowell, Mass. Fire-escape door. No. 913,610; Feb. 23; Sp. p. 5350; Gaz. vol. 139; p. 946.  
 Bernier, J. B. (See Waugh, J. C., assignor.)  
 Bernin, A. F., and E. J. Ware, Portland, Ore. Stump-extractor. No. 944,766; Dec. 28; Sp. p. 5905; Gaz. vol. 149; p. 1018.  
 Bernst, C., Cincinnati, Ohio. Sunday-school register. No. 923,937; June 8; Sp. p. 1850; Gaz. vol. 143; p. 308.  
 Bernstein, J., and L. E. Bailey, said Bailey assignor to S. J. Boley, Athens, Ga. Safety releasing-clamp for baled bed-springs. No. 923,758; June 1; Sp. p. 1417; Gaz. vol. 143; p. 220.  
 Bernstein Mfg. Co. (See Holden, G., assignor.)  
 Bernstein, F., Beaumont, Mass. Portable fireplace. No. 923,318; June 1; Sp. p. 486; Gaz. vol. 143; p. 69.  
 Bernstein, P., Beaumont, Mass. Ventilator and hood for cook-stoves. No. 944,170; Dec. 21; Sp. p. 4593; Gaz. vol. 149; p. 788.  
 Bernstein, W. F., Philadelphia, Pa. Vehicle for hospital and other purposes. No. 922,841; May 25; Sp. p. 5657; Gaz. vol. 142; p. 991.  
 Bernstrom, E. (See Edlund, C. A., assignor.)  
 Bernz, O., Newark, N. J. Air-pump for blow-torches. No. 937,757; Oct. 26; Sp. p. 4494; Gaz. vol. 147; p. 780.  
 Berray, G. E., assignor of one-half to H. F. Compton, Seattle, Wash. Switch-point-throwing mechanism. No. 916,941; Mar. 30; Sp. p. 6635; Gaz. vol. 140; p. 1182.  
 Berresford, A. W., assignor to Cutler-Hammer Mfg. Co., Milwaukee, Wis. Solenoid-switch. No. 935,733; Oct. 5; Sp. p. 230; Gaz. vol. 147; p. 37.  
 Berreyesa, A. E., Oakland, Cal. Ink-distributor for platen-presses. No. 942,705; Dec. 7; Sp. p. 1391; Gaz. vol. 149; p. 228.  
 Berrien, B. G., Bridgeport, Conn. Drive-chain. No. 908,642; Jan. 5; Sp. p. 447; Gaz. vol. 138; p. 72.  
 Berrigan, J. J., Orange, N. J. Feed-governor for centrifugal separators. No. 924,308; June 8; Sp. p. 2654; Gaz. vol. 143; p. 432.  
 Berrill, W. W. T., *et al.* (See Lewis, W. S., assignor.)  
 Berriman, E. C., Chicago, Ill. Tobacco-pipe. No. 926,091; June 29; Sp. p. 6294; Gaz. vol. 143; p. 1118.  
 Berry, A. F., Ealing, England. Electric switch apparatus. No. 930,928; Aug. 10; Sp. p. 2688; Gaz. vol. 145; p. 460.  
 Berry, A. F., Ealing, England. Electrical production of heat for cooking and other purposes. No. 932,242; Aug. 24; Sp. p. 5551; Gaz. vol. 145; p. 945.  
 Berry, A. H. (See Wood, H. K., assignor.)  
 Berry, A. O. (See Davis and Berry.)  
 Berry, B. F., St. Louis, Mo. Printing apparatus. No. 932,100; Aug. 24; Sp. p. 5269; Gaz. vol. 145; p. 898.  
 Berry, B. F., St. Louis, Mo., assignor to W. Scott, Plainfield, N. J.; I. Scott and D. J. Scott executors of said W. Scott, deceased. Gripper for printing-presses. No. 916,412; Mar. 30; Sp. p. 5588; Gaz. vol. 140; p. 1012.  
 Berry Brothers. (See Seward, E. J., assignor.)  
 Berry, D., *et al.* (See Hunter, H. H., assignor.)  
 Berry, D. A. (See Brown, J. H., assignor.)  
 Berry, D. D., Springfield, Mo. Stove or range. No. 917,239; Apr. 6; Sp. p. 566; Gaz. vol. 141; p. 99.  
 Berry, D. R., Port Richmond, N. Y. Expansion-bolt. No. 914,103; Mar. 2; Sp. p. 964; Gaz. vol. 140; p. 151.  
 Berry, E. H., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 915,541; Mar. 16; Sp. p. 3878; Gaz. vol. 140; p. 672.  
 Berry, E. H., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 937,409; Oct. 19; Sp. p. 3789; Gaz. vol. 147; p. 646.

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 Berry, E. R., Lynn, Mass., assignor to General Electric Company. Seal for arc-light electrodes. No. 918,500; Apr. 20; Sp. p. 3140; Gaz. vol. 141; p. 576.  
 Berry, F. F., Topeka, Kans. Third-rail and fifth-leg attachment for bedsteads. No. 930,340; Aug. 10; Sp. p. 1449; Gaz. vol. 145; p. 265.  
 Berry, H. C., Toledo, Ohio. Speedometer. No. 941,223; Nov. 23; Sp. p. 6140; Gaz. vol. 148; p. 1029.  
 Berry, H. F., Laconia, N. H., assignor to E. Jencks Manufacturing Company, Pawtucket, R. I. Web-holder for knitting-machines. No. 920,418; May 4; Sp. p. 674; Gaz. vol. 142; p. 106.  
 Berry, J. J., assignor of two-fifths to E. R. Berry, Galesburg, Ill. Combined building-ventilator and check for furnaces. No. 934,881; Sept. 21; Sp. p. 3829; Gaz. vol. 146; p. 664.  
 Berry, M. F., North Bangor, N. Y. Hoisting-cylinder. No. 928,100; July 13; Sp. p. 2882; Gaz. vol. 144; p. 492.  
 Berry, R. C., Indianapolis, Ind. Power-hacksaw. No. 926,802; July 6; Sp. p. 195; Gaz. vol. 144; p. 32.  
 Berry, R. E., *et al.* (See Hunter, H. H., assignor.)  
 Berry, S. S., Manchester, England. Automatic work-recording appliance. (Reissue.) No. 12,908; Jan. 5; Sp. p. 1450; Gaz. vol. 138; p. 231.  
 Berry, T. O., Big Spring, Tex. Bed-rail fastener. No. 921,349; May 11; Sp. p. 2592; Gaz. vol. 142; p. 446.  
 Berry, W., Clifton, Ariz. Ter. Grinding-machine. No. 917,526; Apr. 6; Sp. p. 1117; Gaz. vol. 141; p. 195.  
 Berry, W., assignor of one-half to G. W. Post, Fond du Lac, Wis. Rail-clamp. No. 928,020; July 13; Sp. p. 2730; Gaz. vol. 144; p. 466.  
 Berry, W. A., assignor of one-half to R. W. Frawley, Chattanooga, Tenn. Boiler. No. 913,681; Mar. 2; Sp. p. 6; Gaz. vol. 140; p. 4.  
 Berry, W. A., assignor of one-half to R. W. Frawley, Chattanooga, Tenn. Steam-boiler. No. 919,528; Apr. 27; Sp. p. 5533; Gaz. vol. 141; p. 950.  
 Berry, W. A., assignor of one-half to R. W. Frawley, Chattanooga, Tenn. Boiler. No. 930,341; Aug. 10; Sp. p. 1450; Gaz. vol. 145; p. 265.  
 Berryman, M. B. (See Berryman, R. J., assignor.)  
 Berryman, R. J., assignor of one-half to M. B. Berryman, Annapolis, Md. Manufacture of artificial ice. No. 936,977; Oct. 12; Sp. p. 2853; Gaz. vol. 147; p. 476.  
 Berryman, R. J., assignor of one-half to M. B. Berryman, Annapolis, Md. Manufacturing and harvesting ice. No. 936,978; Oct. 12; Sp. p. 2855; Gaz. vol. 147; p. 476.  
 Berryman, R. J., assignor of one-half to M. B. Berryman, Annapolis, Md. Manufacturing and harvesting ice. No. 936,979; Oct. 12; Sp. p. 2856; Gaz. vol. 147; p. 477.  
 Berryman, S. C., and J. C. Turner, Juniata, assignors of one-third to N. E. Gee, Altoona, Pa. Means for securing rails to metallic ties. No. 928,173; July 13; Sp. p. 3034; Gaz. vol. 144; p. 517.  
 Bertels, C. E., Wilkes-Barre, Pa. Can. No. 926,461; June 29; Sp. p. 7034; Gaz. vol. 143; p. 1240.  
 Berthelm, A. (See Ehrlich and Berthelm.)  
 Berthel, C. J., Pinetown, N. C. Air-ship. No. 929,378; July 27; Sp. p. 5581; Gaz. vol. 144; p. 978.  
 Berthelot, J. (See Deneal, J., assignor.)  
 Berthier, A. V. P. M., Constantinople, Turkey. Automatic gun. No. 918,646; Apr. 20; Sp. p. 3490; Gaz. vol. 141; p. 624.  
 Berti, C., Vignola, Italy. Manufacture of paper and apparatus therefor. No. 932,430; Aug. 31; Sp. p. 5914; Gaz. vol. 145; p. 1031.  
 Bertin, I., New York, N. Y. Machine for making paper dishes. No. 939,888; Nov. 9; Sp. p. 3156; Gaz. vol. 148; p. 521.  
 Bertin, P. E. and R. L., assignors to Reinforcement Supply Company, New York, N. Y. Manufacturing concrete-reinforcing frames and product thereof. No. 929,748; Aug. 3; Sp. p. 241; Gaz. vol. 145; p. 42.  
 Bertin, R. L. (See Bertin, P. E. and R. L.)  
 Bertram, A., New York, N. Y. Clothes-line fastener. No. 938,110; Oct. 26; Sp. p. 5243; Gaz. vol. 147; p. 900.  
 Bertram, H., Dundas, Ontario, Canada, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Metal-planer. No. 912,063; Feb. 9; Sp. p. 2139; Gaz. vol. 139; p. 369.  
 Bertram, H. W., assignor to Cadillac Cabinet Company, Detroit, Mich. Desk-table. No. 919,682; Apr. 27; Sp. p. 5847; Gaz. vol. 141; p. 1004.  
 Bertram, L. A., assignor of one-half to H. Newlands, Pittsburg, Pa. Pan-lifter. No. 929,819; Aug. 3; Sp. p. 409; Gaz. vol. 145; p. 67.  
 Bertram, P. E., Crystal Lake, Ill. Joist-bridging. No. 918,949; Apr. 20; Sp. p. 4156; Gaz. vol. 141; p. 726.  
 Bertrand, F. E., and G. Portschke, Lincoln, Nebr. Wheel. No. 941,753; Nov. 30; Sp. p. 7269; Gaz. vol. 148; p. 1226.  
 Bertrand, J. C. (See Lyon, R. V., assignor.)  
 Bertrand, L., Hartford, Conn. Combined hinge and bracket. No. 931,028; Aug. 17; Sp. p. 2943; Gaz. vol. 145; p. 521.  
 Bertrand, P., New York, N. Y., and J. Goubillon, Vaulx en Velin, France. Carbureter. No. 913,456; Feb. 23; Sp. p. 5013; Gaz. vol. 139; p. 895.  
 Bertsch, C. A., H. Schelhammer, and L. H. Bertsch, assignors to Bertsch & Company, Cambridge City, Ind. Punching or shearing machine. No. 921,068; May 11; Sp. p. 1991; Gaz. vol. 142; p. 351.  
 Bertsch & Company. (See Bertsch, Schelhammer, and Bertsch, assignors.)  
 Bertsch, G. H., assignor of one-half to E. E. Sanders, Freeport, Ill. Buggy-body. No. 944,231; Dec. 21; Sp. p. 4699; Gaz. vol. 149; p. 805.  
 Bertsch, L. H. (See Bertsch, Schelhammer, and Bertsch.)  
 Berville, P. (See Mandarelli, L., assignor.)  
 Berzon, L., and H. Goldberg, Philadelphia, Pa. Chair. No. 941,555; Nov. 30; Sp. p. 6845; Gaz. vol. 148; p. 1159.  
 Besançon, J. (See Steiger and Besançon.)  
 Besler, C. L. (See Schemmel and Besler.)  
 Besly, C. H. (See Miller, J., Jr., assignor.)  
 Besly, K. M. H. (See Miller, J., Jr., assignor.)  
 Bessemer Gas Engine Company. (See Fithian and Murray, assignors.)  
 Bessen, H., Prairie du Rocher, Ill. Seeder. No. 935,734; Oct. 5; Sp. p. 233; Gaz. vol. 147; p. 35.  
 Besser, H., Alpena, Mich. Pulverizing-machine. No. 909,275; Jan. 12; Sp. p. 1721; Gaz. vol. 138; p. 310.  
 Besser, H. and J. H., Alpena, Mich. Cement-block-making machine. No. 930,455; Aug. 10; Sp. p. 1670; Gaz. vol. 145; p. 302.  
 Besser, J. H. (See Besser, H. and J. H.)  
 Bessette, H. O., Woonsocket, R. I. Drip-receiver. No. 939,202; Nov. 9; Sp. p. 1623; Gaz. vol. 148; p. 287.  
 Best, C. J., Oakland, Cal. Triturating and reducing mill. No. 936,079; Oct. 5; Sp. p. 1017; Gaz. vol. 147; p. 153.  
 Best Crude Oil Burner Company. (See Milks, H. S., assignor.)  
 Best, E., *et al.* (See Best, W. N., assignor.)  
 Best, G. L., Charlotte, N. C. Bottle-cap. No. 943,510; Dec. 14; Sp. p. 3178; Gaz. vol. 149; p. 534.  
 Best, J. H., *et al.* (See Best, W. N., assignor.)  
 Best, J. H., Galva, Ill. Display-rack. No. 936,855; Oct. 12; Sp. p. 2617; Gaz. vol. 147; p. 436.  
 Best, W. (See Cauffman and Best.)  
 Best, W. J., Detroit, Mich. Gas-range oven. No. 942,128; Dec. 7; Sp. p. 216; Gaz. vol. 149; p. 33.  
 Best, W. J., Detroit, Mich. Hydrocarbon-burner. No. 944,070; Dec. 21; Sp. p. 4378; Gaz. vol. 149; p. 754.  
 Best, W. N., New York, N. Y. Furnace for uniformly heating metals. No. 936,856; Oct. 12; Sp. p. 2618; Gaz. vol. 147; p. 436.  
 Best, W. N., New York, N. Y., assignor to J. H. and E. Best, Quincy, Ill. Forge and furnace. No. 938,111; Oct. 26; Sp. p. 5244; Gaz. vol. 147; p. 900.  
 Best, W. N., New York, N. Y., assignor to J. H. and E. Best, Quincy, Ill. Heating and melting furnace. No. 941,609; Nov. 30; Sp. p. 6954; Gaz. vol. 148; p. 1176.  
 Best, W. N., Sr., assignor of one-fourth to W. N. Best, Jr., New York, N. Y. Preheating lighting-fixture. No. 928,241; July 20; Sp. p. 3197; Gaz. vol. 144; p. 570.  
 Bestman, C., Friday Harbor, Wash. Oar-lock. No. 913,457; Feb. 23; Sp. p. 5016; Gaz. vol. 139; p. 896.  
 Beta Fertilizer Company. (See Reichelt, B., assignor.)  
 Bethards, L. B., Chicago, Ill. Propelling mechanism for cash and package carriers. No. 927,212; July 6; Sp. p. 1060; Gaz. vol. 144; p. 171.  
 Bethards, L. B., Chicago, Ill. Package-carrier car. No. 927,213; July 6; Sp. p. 1062; Gaz. vol. 144; p. 172.  
 Betherum, C. G., Emporia, Kans. Combined desk and chair. No. 928,929; July 27; Sp. p. 4613; Gaz. vol. 144; p. 827.  
 Bethge, C., Berlin, Germany. Combustible mixture for producing actinic light. No. 908,837; Jan. 5; Sp. p. 846; Gaz. vol. 138; p. 133.  
 Bethge, C., Berlin, Germany. Flash-light composition. No. 918,818; Apr. 20; Sp. p. 3866; Gaz. vol. 141; p. 682.  
 Bethlehem Steel Company. (See Gathmann, E. A., assignor.)  
 Bethlehem Steel Company. (See Meigs and Hammar, assignors.)  
 Bethlehem Steel Company. (See Meigs and Stout, assignors.)  
 Bethlehem Steel Company. (See Waern and Philp, assignors.)  
 Bethsold, O., Löcknitz, near Stettin, Germany. Hand-brush for cleaning glasses. No. 937,019; Oct. 12; Sp. p. 2944; Gaz. vol. 147; p. 490.  
 Bethune, B. T., Milledgeville, Ga. Plow. No. 941,224; Nov. 23; Sp. p. 6141; Gaz. vol. 148; p. 1030.  
 Bethurum, M. E., Elsinore, Cal. Rail-joint. No. 934,271; Sept. 14; Sp. p. 2637; Gaz. vol. 146; p. 437.  
 Bettanin, F. P., Bessemer, Mich. Compound for eliminating noxious fumes when exploding nitroglycerin. No. 930,030; Aug. 3; Sp. p. 859; Gaz. vol. 145; p. 138.  
 Bettencourt, M. S. (See Hahn, H., assignor.)  
 Bettendorf Axle Company. (See Taylor, R. G., assignor)



*Alphabetical list of patentees—Continued.*

- Bettendorf, W. P., Davenport, Iowa. Underframe for cars. No. 909,360; Jan. 12; Sp. p. 1878; Gaz. vol. 138; p. 337.
- Bettendorf, W. P., Davenport, Iowa. Steel-car construction. No. 942,997; Dec. 14; Sp. p. 2986; Gaz. vol. 149; p. 358.
- Bettinger, J. J., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Valve. No. 916,831; Mar. 30; Sp. p. 6402; Gaz. vol. 140; p. 1145.
- Bettney, T., Birmingham, England. Cycle-saddle. No. 942,363; Dec. 7; Sp. p. 699; Gaz. vol. 149; p. 113.
- Betton, C. L., Lynn, Mass. Shutter-fastener. No. 915,929; Mar. 23; Sp. p. 4670; Gaz. vol. 140; p. 828.
- Betts, A. G., Troy, N. Y. Treating anode slime from the electrolytic refining of lead. No. 918,647; Apr. 20; Sp. p. 3493; Gaz. vol. 141; p. 624.
- Betts, A. G., Troy, N. Y. Smelting zinc ores. No. 918,648; Apr. 20; Sp. p. 3495; Gaz. vol. 141; p. 625.
- Betts, A. G., Troy, N. Y. Acid-proof tank for the electrolytic refining of metals. No. 918,649; Apr. 20; Sp. p. 3496; Gaz. vol. 141; p. 625.
- Betts, A. G., Troy, N. Y. Electrolytic process. No. 918,650; Apr. 20; Sp. p. 3497; Gaz. vol. 141; p. 625.
- Betts, A. G., Troy, N. Y. Treating nickel ores. No. 923,005; May 25; Sp. p. 5983; Gaz. vol. 142; p. 1044.
- Betts, A. G., Troy, N. Y. Treating arsenical ores and speiss. No. 927,021; July 6; Sp. p. 659; Gaz. vol. 144; p. 107.
- Betts, A. G., Troy, N. Y. Electrolytic diaphragm and making the same. No. 929,276; July 27; Sp. p. 5349; Gaz. vol. 144; p. 942.
- Betts, A. G., Troy, N. Y. Metallurgical process. No. 938,634; Nov. 2; Sp. p. 423; Gaz. vol. 148; p. 65.
- Betts, B. B., St. Louis, Mo. Rail-anchor. No. 915,655; Mar. 16; Sp. p. 4133; Gaz. vol. 140; p. 714.
- Betts, C. E., Redondo, Wash. Sewing-tool. No. 928,424; July 20; Sp. p. 3585; Gaz. vol. 144; p. 634.
- Betts, C. L., assignor to R. E. Dietz Company, New York, N. Y. Signal-lantern. No. 910,637; Jan. 26; Sp. p. 4534; Gaz. vol. 138; p. 826.
- Betts, C. L., assignor to R. E. Dietz Company, New York, N. Y. Tubular lantern. No. 911,288; Feb. 2; Sp. p. 528; Gaz. vol. 139; p. 90.
- Betts, C. L., assignor to R. E. Dietz Company, New York, N. Y. Lantern-tube. No. 920,526; May 4; Sp. p. 875; Gaz. vol. 142; p. 141.
- Betts, C. L., assignor to R. E. Dietz Company, New York, N. Y. Tubular lantern. No. 920,815; May 4; Sp. p. 1462; Gaz. vol. 142; p. 236.
- Betts, C. L., assignor to R. E. Dietz Company, New York, N. Y. Tubular lantern. No. 920,892; May 4; Sp. p. 1632; Gaz. vol. 142; p. 261.
- Betts, C. L., assignor to R. E. Dietz Company, New York, N. Y. Lantern-guard. No. 923,483; June 1; Sp. p. 825; Gaz. vol. 143; p. 124.
- Betts, C. L., assignor to R. E. Dietz Company, New York, N. Y. Headlight. No. 927,768; July 13; Sp. p. 2214; Gaz. vol. 144; p. 383.
- Betts, C. L., assignor to R. E. Dietz Company, New York, N. Y. Headlight. No. 933,614; Sept. 7; Sp. p. 1337; Gaz. vol. 146; p. 199.
- Betts, J. H. (See Ryan, M. C., assignor.)
- Betwhy, H. W., Emmett, Mich. Wind-shield for hay-loaders. No. 918,267; Apr. 13; Sp. p. 2659; Gaz. vol. 141; p. 471.
- Betz, C. L., and W. E. Wallace, Rochester, Pa. Press. No. 943,868; Dec. 21; Sp. p. 3921; Gaz. vol. 149; p. 682.
- Betz, F. S. (See Cederger, F., assignor.)
- Betz, F. S. (See Kelly, M., assignor.)
- Betz, J. M., *et al.* (See Wagner, F., assignor.)
- Betz, W. G., assignor to Ray Piano Company, Newcastle, Ind. Pianissimo device. No. 922,247; May 18; Sp. p. 4431; Gaz. vol. 142; p. 769.
- Betzler, J. F., Akron, Ohio. Composite pen. No. 941,403; Nov. 30; Sp. p. 6536; Gaz. vol. 148; p. 1110.
- Beugler, E. F., assignor to E. B. Holmes, Buffalo, N. Y. Cutter-head. No. 909,741; Jan. 12; Sp. p. 2643; Gaz. vol. 138; p. 466.
- Beugler, E. F., assignor to E. B. Holmes, Buffalo, N. Y. Machine for chamfering and crozing barrels. No. 915,065; Mar. 16; Sp. p. 2887; Gaz. vol. 140; p. 516.
- Beugler, E. F., assignor to E. B. Holmes, Buffalo, N. Y. Cutter-head. No. 916,527; Mar. 30; Sp. p. 5852; Gaz. vol. 140; p. 1050.
- Beugler, E. F., assignor to E. B. Holmes, Buffalo, N. Y. Machine for driving hoops onto kegs. No. 923,759; June 1; Sp. p. 1419; Gaz. vol. 143; p. 220.
- Beugler, E. F., assignor to E. B. Holmes, Buffalo, N. Y. Barrel-making machine. No. 941,404; Nov. 30; Sp. p. 6537; Gaz. vol. 148; p. 1110.
- Beugler, E. F., assignor to E. B. Holmes, Buffalo, N. Y. Vertical hoop-driving machine. No. 944,356; Dec. 28; Sp. p. 4980; Gaz. vol. 149; p. 877.
- Beutler, A. (See Parsons and Beutler.)
- Beutler, A., assignor to Belden Manufacturing Company, Chicago, Ill. Covering-machine for magnet-wire. No. 908,539; Jan. 5; Sp. p. 227; Gaz. vol. 138; p. 38.
- Beuttell, A. W., New York, N. Y. Illuminating device. (Reissue.) No. 12,907; Jan. 5; Sp. p. 1448; Gaz. vol. 138; p. 231.
- Bevan, A., Providence, R. I. Circuit-controller for trolley-signals. No. 911,698; Feb. 9; Sp. p. 1346; Gaz. vol. 139; p. 251.
- Bevan, A., Providence, R. I. Grinding and polishing roll. No. 938,547; Nov. 2; Sp. p. 242; Gaz. vol. 148; p. 36.
- Bevan, H., Burlington, N. J. Furnace-grate-operating mechanism. No. 938,112; Oct. 26; Sp. p. 5246; Gaz. vol. 147; p. 900.
- Bever, W. O. (See Locke and Outhouse, assignors.)
- Beveridge, H. L., Indianapolis, Ind. Box-board. No. 925,277; June 15; Sp. p. 4610; Gaz. vol. 143; p. 788.
- Beveridge, J., Glenalmond, Scotland. Apparatus for turning over leaves. No. 910,777; Jan. 26; Sp. p. 4808; Gaz. vol. 138; p. 869.
- Beverly, F. M., Marion, Ohio. Medicine-dispenser. No. 941,489; Nov. 30; Sp. p. 6718; Gaz. vol. 148; p. 1138.
- Bevier, A. D. (See Gibson and Bevier.)
- Bevington, E. L., Chicago, Ill. Cuff. No. 939,203; Nov. 9; Sp. p. 1624; Gaz. vol. 148; p. 287.
- Bevington, E. L., Chicago, Ill. Collar. No. 939,204; Nov. 9; Sp. p. 1626; Gaz. vol. 148; p. 287.
- Bevington, J. H., Chicago, Ill., assignor to R. Elliott Company. Coin-receiving toy pistol. No. 934,957; Sept. 21; Sp. p. 3981; Gaz. vol. 146; p. 692.
- Bevins, R. E. (See Faulkner, J. B., assignor.)
- Bewyer, F. E., Newton, Iowa. Display-rack. No. 936,276; Oct. 5; Sp. p. 1389; Gaz. vol. 147; p. 215.
- Beyer, E., Newark, N. J. Burner for blow-torches. No. 913,611; Feb. 23; Sp. p. 5352; Gaz. vol. 139; p. 947.
- Beyleren, A., Stuttgart, Germany. Type-writer. No. 944,590; Dec. 28; Sp. p. 5533; Gaz. vol. 149; p. 959.
- Beyl, E. A., Minneapolis, Minn. Horizontal boiler. No. 938,035; Oct. 26; Sp. p. 5077; Gaz. vol. 147; p. 874.
- Beymor, A. M., Carthage, Mo. Bed-spring. No. 933,615; Sept. 7; Sp. p. 1339; Gaz. vol. 146; p. 199.
- Beymer, A. S., Kansas City, Mo. Corn-grader. No. 917,240; Apr. 6; Sp. p. 567; Gaz. vol. 141; p. 99.
- Beynon, H. A., Chicago, Ill. Electrical switch. No. 919,811; Apr. 27; Sp. p. 6138; Gaz. vol. 141; p. 1047.
- Bezer, H., Newark, N. J. Railway traffic-controlling system. No. 939,659; Nov. 9; Sp. p. 2673; Gaz. vol. 148; p. 443.
- Bezeler, A. E., Minneapolis, Minn. Hat-display rack. No. 943,805; Dec. 21; Sp. p. 3517; Gaz. vol. 149; p. 663.
- Biberfeld, A., Berlin, assignor to The Firm Kunstdruck- und Verlagsanstalt Wezel & Naumann Aktiengesellschaft, Leipzig-Reudnitz, Germany. Calendar tear-off tablet. No. 924,879; June 15; Sp. p. 3833; Gaz. vol. 143; p. 655.
- Biberman, L., and W. Mills, Philadelphia, Pa. Automatic marker. No. 913,682; Mar. 2; Sp. p. 8; Gaz. vol. 140; p. 4.
- Bibershtine, N., Geneva, Ind. Fence-post and anchor therefor. No. 912,790; Feb. 16; Sp. p. 3702; Gaz. vol. 139; p. 650.
- Bible, F. O., Wilksburg, assignor of one-fifth to J. H. Dash, Pittsburg, Pa. Rotary engine. No. 934,384; Sept. 14; Sp. p. 2849; Gaz. vol. 146; p. 476.
- Bible, G., Chicago, Ill. Smoke-shade hanger. No. 927,933; July 13; Sp. p. 2575; Gaz. vol. 144; p. 438.
- Biche, C. E., Hamburg, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Increasing the density of fusible explosive nitro substances. No. 925,419; June 15; Sp. p. 4863; Gaz. vol. 143; p. 831.
- Bickel, H. F., New York, N. Y., assignor to New York Air Brake Company. Air-brake apparatus. No. 915,155; Mar. 16; Sp. p. 3113; Gaz. vol. 140; p. 546.
- Bickerton, C. (See Andrews and Bickerton.)
- Bickerton, H. N., and P. W. Robson, Ashton-under-Lyne, England. Gas-producing plant. No. 919,683; Apr. 27; Sp. p. 5849; Gaz. vol. 141; p. 1004.
- Bickford, S. M., Pittsburg, Pa. Knife. No. 925,278; June 15; Sp. p. 4611; Gaz. vol. 143; p. 788.
- Bickford, W. R., Waltham, assignor to Standard Plate Glass Company, Boston, Mass. Holder for frameless mirrors, &c. No. 911,568; Feb. 9; Sp. p. 1062; Gaz. vol. 139; p. 207.
- Bickle, H. J., and M. Wilson, Gladstone, Manitoba, Canada. Scraper. No. 934,653; Sept. 21; Sp. p. 3388; Gaz. vol. 146; p. 590.
- Bickle, H. J., and M. McMillan, Gladstone, assignors of one-fourth to C. W. McMillan, Westbourne, and one-fourth to C. H. Kenny, Winnipeg, Manitoba, Canada. Grain-car door. No. 939,660; Nov. 9; Sp. p. 2690; Gaz. vol. 148; p. 443.
- Bickley, W. S., Chester, Pa., assignor to Baldt Anchor Company. Stockless anchor. No. 928,895; July 20; Sp. p. 4536; Gaz. vol. 144; p. 790.
- Bicycle Skate and Manufacturing Co. (See Eubank, R. B., Jr., assignor.)
- Biddle, G. C., Edenburg, assignor of one-half to A. C. White, New Castle, Pa. Animal-trap. No. 909,526; Jan. 12; Sp. p. 2210; Gaz. vol. 138; p. 393.
- Biddle, G. C., assignor of one-half to M. L. Kraus, Sharon, Pa. Garment-supporter. No. 944,655; Dec. 28; Sp. p. 5655; Gaz. vol. 149; p. 981.
- Biechle, E., Detroit, Mich. Adjustable film-frame carrier. No. 914,694; Mar. 9; Sp. p. 2195; Gaz. vol. 140; p. 369.
- Biedermann, A., Pine City, Minn. Horseshoe-stand. No. 916,413; Mar. 30; Sp. p. 5590; Gaz. vol. 140; p. 1013.
- Bien, J., Baltimore, Md. Down rain-spout. No. 916,095; Mar. 23; Sp. p. 4983; Gaz. vol. 140; p. 883.
- Bienenzucht, A., New York, N. Y. Buckle. No. 940,498; Nov. 16; Sp. p. 4570; Gaz. vol. 148; p. 763.
- Bienz, J., Langenthal, Switzerland. Carbonating liquids. No. 943,060; Dec. 14; Sp. p. 2246; Gaz. vol. 149; p. 381.
- Bierbach, C. F., Milwaukee, Wis. Street-sprinkler. No. 944,253; Dec. 28; Sp. p. 4750; Gaz. vol. 149; p. 840.
- Bierbower, R. C., Houston, Tex. Vapor-burner. No. 938,365; Oct. 26; Sp. p. 5817; Gaz. vol. 147; p. 987.
- Bierce, E. R. (See McGuire, J. K., assignor.)

*Alphabetical list of patentees—Continued.*

- Bierend, J. F., Los Angeles, Cal. Show-case. No. 940,299; Nov. 16; Sp. p. 4109; Gaz. vol. 148; p. 695.
- Bierer, J., and H. Loréan, assignors to Firm of Dye Works, formerly L. Durand, Huguenin & Co., Basel, Switzerland. Vat-dyeing with galloxyanin dyestuffs. No. 943,375; Dec. 14; Sp. p. 2886; Gaz. vol. 149; p. 485.
- Bierhoff, H., New York, N. Y. Supporter. No. 930,031; Aug. 3; Sp. p. 860; Gaz. vol. 145; p. 138.
- Bierley, H. A., Portsmouth, Ohio. Attachment for whiffletrees. No. 934,789; Sept. 21; Sp. p. 3655; Gaz. vol. 146; p. 635.
- Bierley, H. A., Portsmouth, Ohio. Washboard. No. 940,499; Nov. 16; Sp. p. 4571; Gaz. vol. 148; p. 763.
- Bierly, G. M., Columbus, Ohio. Automatically-controlled gas-valve. No. 933,153; Sept. 7; Sp. p. 236; Gaz. vol. 146; p. 40.
- Bierman, C. H., Milwaukee, Wis. Automatic switch. No. 921,666; May 18; Sp. p. 3256; Gaz. vol. 142; p. 579.
- Biernumpfel, H. C., Newark, N. J. Conveyer. No. 915,542; Mar. 16; Sp. p. 3881; Gaz. vol. 140; p. 672.
- Big 4 Manufacturing Company. (See Davidson, L. C., assignor.)
- Bigelow, Kennard & Co. (See Morgan, W. C., assignor.)
- Bigger, J. T., Owensboro, Ky. Incandescent electric light. No. 939,969; Nov. 16; Sp. p. 3344; Gaz. vol. 148; p. 578.
- Biggers, S. A., McLean, Tex. Wagon-coupling. No. 919,684; Apr. 27; Sp. p. 5852; Gaz. vol. 141; p. 1005.
- Biggett, F. C., Jr., assignor to United Engineering & Foundry Company, Pittsburg, Pa. Rolling-mill. No. 915,014; Mar. 9; Sp. p. 2785; Gaz. vol. 140; p. 471.
- Biggett, F. C., Jr., assignor to United Engineering & Foundry Company, Pittsburg, Pa. Shear-table and actuating mechanism therefor. No. 923,109; May 25; Sp. p. 6214; Gaz. vol. 142; p. 1077.
- Bigham, B. V., assignor of one-half to A. Elliott, Seattle, Wash. Grip-wheel. No. 916,656; Mar. 30; Sp. p. 6092; Gaz. vol. 140; p. 1092.
- Bigler, F. R., Kansas City, Mo. Disinfectant-holder for telephone-transmitters. No. 920,527; May 4; Sp. p. 876; Gaz. vol. 142; p. 142.
- Bihler, M. (See Bihler, W. C. and M.)
- Bihler, W. C. and M., Chicago, Ill. Stove-tray. No. 916,657; Mar. 30; Sp. p. 6093; Gaz. vol. 140; p. 1092.
- Bilbro, H. C. (See Hastings and Bilbro.)
- Biles, J. W., Louisville, Ky. Filter-press plate. No. 914,476; Mar. 9; Sp. p. 1733; Gaz. vol. 140; p. 297.
- Biles, W. A., Birmingham, Ala. Composition roofing and producing it. No. 930,524; Aug. 10; Sp. p. 1862; Gaz. vol. 145; p. 328.
- Bilger, S., Silverdale, Pa. Piano-truck. No. 933,616; Sept. 7; Sp. p. 1340; Gaz. vol. 146; p. 199.
- Bilger, S., Silverdale, assignor to Parker Manufacturing Company, Souderton, Pa. Piano-truck. No. 937,043; Oct. 19; Sp. p. 3000; Gaz. vol. 147; p. 527.
- Bilgram, H., Philadelphia, Pa. Tapping-machine. No. 922,248; May 18; Sp. p. 4432; Gaz. vol. 142; p. 769.
- Bilharz, F., Winston Salem, N. C. Hook and eye or collar supporter and stiffener. No. 926,539; June 29; Sp. p. 7163; Gaz. vol. 143; p. 1266.
- Bilhorn, P. P., Chicago, Ill. Spring-latch. No. 944,713; Dec. 28; Sp. p. 5780; Gaz. vol. 149; p. 1000.
- Billau, C. F., Cedar Rapids, Iowa. Weeder. No. 933,227; Sept. 7; Sp. p. 447; Gaz. vol. 146; p. 69.
- Bilburg, C., Chicago, Ill. Combined display-case and valise. No. 933,874; Sept. 14; Sp. p. 1865; Gaz. vol. 146; p. 308.
- Bilburg, C., and S. Chandler, Chicago, Ill. Combination suit-case and valise. No. 930,032; Aug. 3; Sp. p. 861; Gaz. vol. 145; p. 138.
- Billé, L., assignor of one-half to Societe Metallurgique du Perigord, Paris, France. Pipe-joint. No. 928,896; July 20; Sp. p. 4537; Gaz. vol. 144; p. 790.
- Billard, D., Pittsburg, Pa. Expansion-valve. No. 915,543; Mar. 16; Sp. p. 3882; Gaz. vol. 140; p. 673.
- Billing, N. P., London, England. Type-writer. No. 911,805; Feb. 9; Sp. p. 1527; Gaz. vol. 139; p. 285.
- Billingham, R. A., St. Marys, Pa. Waste-supporting attachment for journal-boxes. No. 913,458; Feb. 23; Sp. p. 5017; Gaz. vol. 139; p. 896.
- Billingham, R. A., St. Marys, Pa. Waste-supporting attachment for journal-boxes. No. 922,249; May 18; Sp. p. 4437; Gaz. vol. 142; p. 770.
- Billings, A. J. (See Billings, J. W., assignor.)
- Billings, J. W., assignor of one-half to A. J. Billings, Beatrice, Nebr. Egg-tester. No. 939,205; Nov. 9; Sp. p. 1627; Gaz. vol. 148; p. 287.
- Billings & Spencer Company. (See Bayrer, L. G., assignor.)
- Billings, W. F., Kansas City, Mo. Key-cutting machine. No. 943,806; Dec. 21; Sp. p. 3819; Gaz. vol. 149; p. 664.
- Billington, A. R., Chicago, Ill. Machine for interweaving curled horsehair fabric. No. 916,096; Mar. 23; Sp. p. 4984; Gaz. vol. 140; p. 883.
- Billington, J. E. (See Pearce and Billington.)
- Billington, J. E., and C. Hollivell, Broadheath, Altrincham, England. Assembling mechanism of typographical composing-machines. No. 923,131; June 1; Sp. p. 3; Gaz. vol. 143; p. 3.
- Billington, J. E., and C. Hollivell, Broadheath, assignors to Linotype and Machinery Limited, London, England. Trimming mechanism for linotype-machines. No. 910,489; Jan. 26; Sp. p. 4219; Gaz. vol. 138; p. 777.
- Billington, J. E., and C. Hollivell, Broadheath, assignors to Linotype and Machinery Limited, London, England. Matrix for linotype-machines. No. 935,635; Oct. 5; Sp. p. 19; Gaz. vol. 147; p. 5.
- Billitzer, J., Vienna, Austria-Hungary. Electrolysis of alkali chlorids. No. 928,734; July 20; Sp. p. 4216; Gaz. vol. 144; p. 734.
- Billitzer, J., Vienna, Austria-Hungary. Apparatus for the electrolysis of alkali chlorids. No. 934,385; Sept. 14; Sp. p. 2850; Gaz. vol. 146; p. 476.
- Billman, O. C. (See Miles, B. N., assignor.)
- Billmyer, J., Elyria, Ohio. Combined harness hanger and stretcher. No. 914,548; Mar. 9; Sp. p. 1883; Gaz. vol. 140; p. 321.
- Billow, C. O. and E. E., Chicago, Ill. Drier-furnace. No. 916,658; Mar. 30; Sp. p. 6094; Gaz. vol. 140; p. 1092.
- Billow, E. E. (See Billow, C. O. and E. E.)
- Billow, E. E., Chicago, Ill. Burner. No. 910,267; Jan. 19; Sp. p. 3757; Gaz. vol. 138; p. 676.
- Bills, C. C., *et al.* (See Ball, J. F., assignor.)
- Bills, K. E., assignor to A. B. Cooling, Sterling, Ill. Driving mechanism for washing-machines. No. 944,656; Dec. 28; Sp. p. 5656; Gaz. vol. 149; p. 981.
- Billstrom, N. J., Rockford, Ill. Feeder for jointers and surface-planers. No. 928,930; July 27; Sp. p. 4614; Gaz. vol. 144; p. 828.
- Bilton, C. E., Bridgeport, Conn. Telephone apparatus. No. 919,812; Apr. 27; Sp. p. 6141; Gaz. vol. 141; p. 1047.
- Bily, V., New York, N. Y. Lock. No. 913,459; Feb. 23; Sp. p. 5019; Gaz. vol. 139; p. 896.
- Bimlich, W., New York, N. Y. Cane and the like. No. 924,880; June 15; Sp. p. 3835; Gaz. vol. 143; p. 655.
- Bimm, G. R., Paris, France. Suction cleaning apparatus. No. 944,714; Dec. 28; Sp. p. 5782; Gaz. vol. 149; p. 1000.
- Bimmerle, A. E., Edenvale, Cal. Packaging-machine. No. 929,541; July 27; Sp. p. 5855; Gaz. vol. 144; p. 1029.
- Binder, W., *et al.* (See Emberger, W., assignor.)
- Binford, E. P., Chicago, Ill. Making patterns for casting hollow dental fillings. No. 944,254; Dec. 28; Sp. p. 4751; Gaz. vol. 149; p. 840.
- Bing, A., Canby, Minn. Rein-holder. No. 943,376; Dec. 14; Sp. p. 2889; Gaz. vol. 149; p. 486.
- Bing, A., assignor of one-half to H. Mortenson, Canby, Minn. Tongs. No. 936,980; Oct. 12; Sp. p. 2857; Gaz. vol. 147; p. 477.
- Bingham, C. F., *et al.* (See Brown, G. A., assignor.)
- Bingaman, H., and J. A. Miller, Harding, S. D. Scraper. No. 940,666; Nov. 23; Sp. p. 4929; Gaz. vol. 148; p. 843.
- Bingaman, J., assignor of one-half to G. W. Hunley, Garnett, Kans. Excavating and loading machine. No. 909,982; Jan. 19; Sp. p. 3127; Gaz. vol. 138; p. 578.
- Bingaman, J. P., *et al.* (See Adams, G., assignor.)
- Bingaman, J. P., *et al.* (See Brown, G. A., assignor.)
- Binger, N., and E. F. Burgstaller, San Antonio, Tex. Extension step-ladder. No. 943,511; Dec. 14; Sp. p. 3180; Gaz. vol. 149; p. 534.
- Bingham, G. W., New York, N. Y. Spangle cutting and attaching machine. No. 940,229; Nov. 16; Sp. p. 3945; Gaz. vol. 148; p. 671.
- Bingham, R. C., Mount Gilead, Ohio. Pump. No. 909,276; Jan. 12; Sp. p. 1724; Gaz. vol. 138; p. 310.
- Bink, A., Stockton, Cal. Power-transmission mechanism. No. 931,987; Aug. 24; Sp. p. 5024; Gaz. vol. 145; p. 861.
- Binks, C. A., Matawan, N. J. Apparatus for lowering and hoisting life-boats from the decks of ships. No. 932,101; Aug. 24; Sp. p. 5270; Gaz. vol. 145; p. 898.
- Binney, M. M. S., Sydney, New South Wales, Australia. Cot for children. No. 914,104; Mar. 2; Sp. p. 965; Gaz. vol. 140; p. 151.
- Binnington, T. H. (See Porter and Binnington.)
- Birch, F. B. (See Subers, Z. T., assignor.)
- Birch, J. H. (See Sterba and Birch.)
- Birch, S., Manchester, England, assignor to American Finishing Machinery Company, Boston, Mass. Cloth opener and expander. No. 924,595; June 8; Sp. p. 3213; Gaz. vol. 143; p. 526.
- Bird, B. F., Kingston, N. Y. Combination-tool. No. 913,191; Feb. 23; Sp. p. 4475; Gaz. vol. 139; p. 806.
- Bird, B. F., Kingston, N. Y. Hammer. No. 917,840; Apr. 13; Sp. p. 1761; Gaz. vol. 141; p. 323.
- Bird, C. S., East Walpole, Mass. Paper box. No. 940,617; Nov. 23; Sp. p. 4930; Gaz. vol. 148; p. 843.
- Bird, C. S., East Walpole, Mass. Paper box. No. 940,781; Nov. 23; Sp. p. 5194; Gaz. vol. 148; p. 882.
- Bird, C. S., East Walpole, Mass. Paper box. No. 940,782; Nov. 23; Sp. p. 5196; Gaz. vol. 148; p. 882.
- Bird, J. C., assignor to Union Steam Pump Company, Battle Creek, Mich. Connecting-rod. No. 912,791; Feb. 16; Sp. p. 3703; Gaz. vol. 139; p. 651.
- Bird, J. C., assignor to Union Steam Pump Company, Battle Creek, Mich. Valve mechanism for steam-engines. No. 933,952; Sept. 14; Sp. p. 2011; Gaz. vol. 146; p. 331.
- Bird, M. A. (See Bird, F. J., assignor.)
- Bird, P. J., assignor to M. A. Bird, New York, N. Y. Lunch-box. No. 925,447; June 22; Sp. p. 4940; Gaz. vol. 143; p. 872.
- Bird, S., Cairo, Ill. Shot-case. No. 931,723; Aug. 24; Sp. p. 4450; Gaz. vol. 145; p. 775.



*Alphabetical list of patentees—Continued.*

- Birdsall, C. H. (See Johnson, J. M., assignor.)
- Birdwell, R. P., assignor of one-half to W. D. Ingram, Brownsboro, Tex. Cutter-head and bit. No. 930,929; Aug. 10; Sp. p. 2693; Gaz. vol. 145; p. 461.
- Birely, C., assignor to Davis-Birely Table Co., Shelbyville, Ind. Table-desk. No. 915,066; Mar. 16; Sp. p. 2893; Gaz. vol. 140; p. 516.
- Birkett, T. M., Ottawa, Ontario, Canada. Miter-box. No. 937,044; Oct. 19; Sp. p. 3005; Gaz. vol. 147; p. 527.
- Birky, C. E., Alvin, Ill. Auto-horse. No. 941,301; Nov. 23; Sp. p. 6303; Gaz. vol. 143; p. 1054.
- Birky, C. E., Alvin, Ill. Match-safe. No. 942,706; Dec. 7; Sp. p. 1392; Gaz. vol. 149; p. 228.
- Birmingham, J. P. (See Arthur and Birmingham.)
- Birmingham, J. P., East Lexington, assignor of one-half to T. M. Ramsdell, Richmond, Va. Uncoupling-lever. No. 929,188; July 27; Sp. p. 5157; Gaz. vol. 144; p. 914.
- Birnbaum, A., Erie, Pa. Wheel-tire. No. 925,985; June 22; Sp. p. 6059; Gaz. vol. 143; p. 1048.
- Birnbaum, A., Erie, Pa. Roller for barrel-scrubbers. No. 929,379; July 27; Sp. p. 5582; Gaz. vol. 144; p. 979.
- Birner, J., Elizabeth, and E. J. Heil, Carteret, N. J. Non-refillable bottle. No. 943,334; Dec. 14; Sp. p. 2797; Gaz. vol. 149; p. 471.
- Birney, C. O., St. Louis, Mo. Street-car. No. 912,792; Feb. 16; Sp. p. 3704; Gaz. vol. 139; p. 651.
- Birney, C. O., St. Louis, Mo. Car-window curtain-rod. No. 924,419; June 8; Sp. p. 2864; Gaz. vol. 143; p. 468.
- Birney, C. O., St. Louis, Mo. Street-car. No. 924,420; June 8; Sp. p. 2866; Gaz. vol. 143; p. 468.
- Birney, C. O., St. Louis, Mo. Street-car. No. 931,724; Aug. 24; Sp. p. 4452; Gaz. vol. 145; p. 775.
- Birnstock, W. W., York, Pa. Non-recount fabric-measuring roll. No. 913,676; Feb. 23; Sp. p. 5499; Gaz. vol. 139; p. 968.
- Birnstock, W. W., assignor to Pullman Automatic Ventilator Mfg. Company, York, Pa. Roof-ventilator. No. 942,707; Dec. 7; Sp. p. 1394; Gaz. vol. 149; p. 229.
- Birochik, A., Glenwhite, Pa. Cross-tie and rail-fastener. No. 941,225; Nov. 23; Sp. p. 6142; Gaz. vol. 148; p. 1030.
- Birnsfield, J. A., assignor to A. Stromberg, Chicago, Ill. Telephone-ringer. No. 924,030; June 8; Sp. p. 2037; Gaz. vol. 143; p. 338.
- Birnsfield, J. A., assignor to A. Stromberg, Chicago, Ill. Telephone desk-stand. No. 931,179; Aug. 17; Sp. p. 3280; Gaz. vol. 145; p. 572.
- Bisbee, A. C. (See Pankhurst and Bisbee.)
- Bisbee, C. A., Seattle, Wash. Car-fender. No. 918,268; Apr. 13; Sp. p. 2660; Gaz. vol. 141; p. 472.
- Bisbing, H. E. (See Conway and Bisbing.)
- Bisceglia, S., Chicago, Ill. Elevator safety appliance. No. 932,102; Aug. 24; Sp. p. 5273; Gaz. vol. 145; p. 899.
- Bishop, A. C., Detroit, Mich. Apparatus for manufacturing ice. No. 920,248; May 4; Sp. p. 327; Gaz. vol. 142; p. 51.
- Bishop, A. L., and T. F. Kidd, Petersburg, Va. Safety appliance for railway-switches. No. 912,064; Feb. 9; Sp. p. 2140; Gaz. vol. 139; p. 369.
- Bishop, B. S. (See Gifford, Burns, and Bishop.)
- Bishop, C. C., St. Louis, Mo. Advertising device. No. 930,342; Aug. 10; Sp. p. 1451; Gaz. vol. 145; p. 265.
- Bishop, E. W., Sedro Woolley, Wash. Can-opener. No. 913,683; Mar. 2; Sp. p. 9; Gaz. vol. 140; p. 4.
- Bishop, F. A., assignor of one-fourth to J. R. Jones, Atlanta, Ga. Street-sweeper. No. 913,460; Feb. 23; Sp. p. 5020; Gaz. vol. 139; p. 897.
- Bishop, H. B., New York, N. Y. Cleansing compound. No. 921,350; May 11; Sp. p. 2594; Gaz. vol. 142; p. 447.
- Bishop, H. B., assignor to General Chemical Company, New York, N. Y. Method and apparatus for testing fluids. No. 933,015; Aug. 31; Sp. p. 7114; Gaz. vol. 145; p. 1223.
- Bishop, H. B., assignor to General Chemical Company, New York, N. Y. Apparatus for testing fluids. No. 940,850; Nov. 23; Sp. p. 5337; Gaz. vol. 148; p. 905.
- Bishop, J. L., Dorchester, Mass. Scissors. No. 929,749; Aug. 3; Sp. p. 244; Gaz. vol. 145; p. 42.
- Bishop, J. N., Ironton, assignor of one-half to H. B. Jones, Pilot Knob, Mo. Hat-pin. No. 920,249; May 4; Sp. p. 330; Gaz. vol. 142; p. 52.
- Bishop, L. F., and R. Grace, New York, N. Y. Sphygmomanometer. No. 915,329; Mar. 16; Sp. p. 3453; Gaz. vol. 140; p. 602.
- Bishop, M. E., Goodnight, Tex. Post-card stand. No. 924,031; June 8; Sp. p. 2039; Gaz. vol. 143; p. 338.
- Bishop, S. W., Newberry, Fla. Sock-supporter. No. 914,380; Mar. 9; Sp. p. 1558; Gaz. vol. 140; p. 265.
- Bishop, W. E., and G. F. Chaple, Brevard, N. C. Vending apparatus. No. 923,132; June 1; Sp. p. 12; Gaz. vol. 143; p. 4.
- Bismarckhütte, Firm of. (See Thallner, O., assignor.)
- Biss, E., near Sherman, S. D. Cultivator. No. 913,461; Feb. 23; Sp. p. 5022; Gaz. vol. 139; p. 897.
- Bissell Carpet Sweeper Company. (See Mason, F. C., assignor.)
- Bissell, G. F. (See Garver and Bissell.)
- Bissell, W. W., Beaver, Pa. Apparatus for shaping metal. No. 928,353; July 20; Sp. p. 3460; Gaz. vol. 144; p. 610.
- Bissen, P., Stacyville, Iowa. Neck-yoke attachment. No. 940,230; Nov. 16; Sp. p. 3947; Gaz. vol. 148; p. 671.
- Bisset, J., et al., trustees. (See Taylor, W. M., assignor.)
- Bissonnet, W. J., Houston, Tex. Oil-burner. No. 920,419; May 4; Sp. p. 676; Gaz. vol. 142; p. 107.
- Bissonnette, N. P., Bridgeport, Conn. Alarm for portable boxes. No. 917,991; Apr. 13; Sp. p. 2103; Gaz. vol. 141; p. 377.
- Bither, S. H., Berkeley, Cal. Carbonating-machine equalizer. No. 930,033; Aug. 3; Sp. p. 863; Gaz. vol. 145; p. 139.
- Bittinger, H. F., and J. J. Ennis, Covington, Ky. Wire screen. No. 916,832; Mar. 30; Sp. p. 6404; Gaz. vol. 140; p. 1145.
- Bittrich, M., Milan, Italy. Furnace. No. 915,156; Mar. 16; Sp. p. 3116; Gaz. vol. 140; p. 547.
- Bittrich, M., Stettin, Germany. Measuring feed device for retorts and the like. No. 938,954; Nov. 2; Sp. p. 1103; Gaz. vol. 148; p. 176.
- Bjerke, C. (See Bergquam and Bjerke.)
- Bjorling, W. W., Dumont, N. J. Door-closer. No. 941,907; Nov. 30; Sp. p. 7607; Gaz. vol. 148; p. 1281.
- Bjorn, A., and C. E. Cashmore, New York, N. Y. Combined screw-driver and tweezers. No. 942,373; Dec. 7; Sp. p. 715; Gaz. vol. 149; p. 116.
- Black, A. L., Arbuckle, Cal. Proportional dividers. No. 936,857; Oct. 12; Sp. p. 2620; Gaz. vol. 147; p. 437.
- Black, C. F. (See Galbraith and Black.)
- Black, F. B., Gilboa, Ohio. Snare-curette. No. 932,103; Aug. 24; Sp. p. 5275; Gaz. vol. 145; p. 899.
- Black, H. (See Modlin, Schenimann, Buhl, and Black.)
- Black, H. B. (See Sullivan and Black.)
- Black, J., Newcastle-upon-Tyne, England. Drying-machine. No. 919,529; Apr. 27; Sp. p. 5535; Gaz. vol. 141; p. 951.
- Black, J., assignor to E. Vaughan, Philadelphia, Pa. Knitting stockings. No. 910,896; Jan. 26; Sp. p. 5034; Gaz. vol. 138; p. 906.
- Black, J., assignor to E. Vaughan, Philadelphia, Pa. Knitting stockings. No. 912,934; Feb. 16; Sp. p. 3943; Gaz. vol. 139; p. 694.
- Black, J., assignor to E. Vaughan, Philadelphia, Pa. Knitting-machine. No. 933,016; Aug. 31; Sp. p. 7119; Gaz. vol. 145; p. 1224.
- Black, J., and A. H., and A. B. Lennox, Newcastle-upon-Tyne, England. Continuous-drying machine. No. 921,351; May 11; Sp. p. 2594; Gaz. vol. 142; p. 447.
- Black, J. C., and J. F. Eaton, Point Richmond, Cal. Concrete-encased pile. No. 910,453; Jan. 19; Sp. p. 4133; Gaz. vol. 138; p. 741.
- Black, J. E. (See Helms and Black.)
- Black, L. G., Orillia, Ontario, Canada. Holder for infants' feeding-bottles. No. 936,293; Oct. 12; Sp. p. 1421; Gaz. vol. 147; p. 247.
- Black, O. S. (See McKesson and Black.)
- Black, P. J., Bridgeport, Conn., assignor to Singer Manufacturing Company. Sewing-machine-lubricating device. No. 937,045; Oct. 19; Sp. p. 3006; Gaz. vol. 147; p. 527.
- Black, T. A., Shamokin, Pa. Miner's lamp. No. 944,171; Dec. 21; Sp. p. 4594; Gaz. vol. 149; p. 788.
- Black, T. W., and J. James, Burnham, Pa. Umbrella. No. 929,117; July 27; Sp. p. 5001; Gaz. vol. 144; p. 890.
- Black, W. G., St. Louis, Mo. Alloy. No. 912,645; Feb. 16; Sp. p. 3347; Gaz. vol. 139; p. 601.
- Black, W. G., New Philadelphia, assignor of two-thirds to H. H. Fisher, Cleveland, Ohio. Pump-valve. No. 936,233; Oct. 5; Sp. p. 1304; Gaz. vol. 147; p. 200.
- Blackall and Baldwin Company. (See Blackall, F. S., assignor.)
- Blackall, F. S., Woodmont, Conn., assignor to Blackall and Baldwin Company, New York, N. Y. Cleaner-head for vacuum cleaning apparatus. No. 930,134; Aug. 3; Sp. p. 1080; Gaz. vol. 145; p. 175.
- Blackall, R. H. (See Turner and Blackall.)
- Blackburn, A., Ryot, Pa. Animal attachment. No. 915,409; Mar. 16; Sp. p. 3612; Gaz. vol. 140; p. 629.
- Blackburn, A. H., Matteawan, N. Y. Air-heating device for gas-making apparatus. No. 924,033; June 8; Sp. p. 2042; Gaz. vol. 143; p. 339.
- Blackburn, J., St. Louis, Mo. Insulator and wire-clamp. No. 915,330; Mar. 16; Sp. p. 3455; Gaz. vol. 140; p. 603.
- Blackburn, J. O., Chloride, Ariz. Ter. Rotary ore-extractor. No. 923,319; June 1; Sp. p. 483; Gaz. vol. 143; p. 69.
- Blackburn, S. F., Thomas, Ky. Strap. No. 925,986; June 22; Sp. p. 6061; Gaz. vol. 143; p. 1048.
- Blackford, A. J., Cleveland, Ohio. Wick blue-flame burner. No. 944,840; Dec. 28; Sp. p. 6057; Gaz. vol. 149; p. 1043.
- Blackford, A. J., Cleveland, Ohio, assignor to American Stove Company, Jersey City, N. J. Blue-flame burner. No. 915,656; Mar. 16; Sp. p. 4140; Gaz. vol. 140; p. 714.
- Blackham, G. J., Uniontown, Pa., assignor to McCrum-Howell Company, New York, N. Y. Foundry-pattern for molding bath-tubs with varied rims. No. 925,678; June 22; Sp. p. 5399; Gaz. vol. 143; p. 945.
- Blackham, G. J., Uniontown, Pa., assignor to McCrum-Howell Company, New York, N. Y. Carrier for foundry-ladles. No. 927,022; July 6; Sp. p. 661; Gaz. vol. 144; p. 107.
- Blackidge, C. F., Washington, D. C. Typograph apparatus. No. 943,614; Dec. 14; Sp. p. 3412; Gaz. vol. 149; p. 569.

*Alphabetical list of patentees—Continued.*

- Blacklock, R. E., Hirst, assignor of one-half to W. J. Stephenson, St. Peters, England. Non-slipping sole-plate and means for fastening it to the foot of the wearer. No. 919,118; Apr. 20; Sp. p. 4460; Gaz. vol. 141; p. 779.
- Blackman, A. E., Mount Vernon, N. Y. Panel-board. No. 938,635; Nov. 2; Sp. p. 426; Gaz. vol. 148; p. 65.
- Blackman, J. N., East Orange, N. J. Phonograph-record tray. No. 944,657; Dec. 28; Sp. p. 5658; Gaz. vol. 149; p. 982.
- Blackman, L. M., Lucerne, Mo. Stacker. No. 932,751; Aug. 31; Sp. p. 6613; Gaz. vol. 145; p. 1139.
- Blackman, M., Jersey City, N. J. Leader-brush. No. 919,813; Apr. 27; Sp. p. 6142; Gaz. vol. 141; p. 1047.
- Blackmon, C. D., assignor to American Chemical Manufacturing & Mining Company, Rochester, N. Y. Shoe-measure. No. 931,725; Aug. 24; Sp. p. 4454; Gaz. vol. 145; p. 775.
- Blackmore, H. S., Mount Vernon, N. Y. Composition for antiseptic and other purposes. No. 909,527; Jan. 12; Sp. p. 2211; Gaz. vol. 138; p. 393.
- Blackmore, H. S., Mount Vernon, N. Y. Formic-aldehyde-containing composition and making the same. No. 917,706; Apr. 6; Sp. p. 1446; Gaz. vol. 141; p. 254.
- Blackmore, H. S., Mount Vernon, N. Y. Making carbid or carbid-containing electrodes. No. 917,707; Apr. 6; Sp. p. 1449; Gaz. vol. 141; p. 254.
- Blackmore, H. S., Mount Vernon, N. Y. Producing metals. No. 918,269; Apr. 13; Sp. p. 2662; Gaz. vol. 141; p. 472.
- Blackmore, H. S., Mount Vernon, N. Y. Reducing metal. No. 918,950; Apr. 20; Sp. p. 4157; Gaz. vol. 141; p. 726.
- Blackmore, H. S., Mount Vernon, N. Y. Extracting aluminum and other metals. No. 920,893; May 4; Sp. p. 1633; Gaz. vol. 142; p. 261.
- Blackmore, H. S., Mount Vernon, N. Y. Cell for electrolytic or other purposes. No. 922,079; May 18; Sp. p. 4088; Gaz. vol. 142; p. 715.
- Blackmore, H. S., Mount Vernon, N. Y. Generating electricity. No. 939,183; Nov. 2; Sp. p. 1568; Gaz. vol. 148; p. 254.
- Blackmore, L. R., Arlington, N. J. Wrench. No. 923,617; June 1; Sp. p. 1134; Gaz. vol. 143; p. 173.
- Blackmall, T. H., Chicago, Ill. Display-hanger. No. 929,380; July 27; Sp. p. 5584; Gaz. vol. 144; p. 979.
- Blackshere, F. (See Davis, U. G., assignor.)
- Blackstock, J. A., Seattle, Wash. Eye-shade. No. 944,767; Dec. 28; Sp. p. 5906; Gaz. vol. 149; p. 1018.
- Blackstone, E. C. (See Carter, F. and E., assignors.)
- Blackstone, E. C., and R. E. Watts, Stamford, England. Side-delivery rake. No. 935,456; Sept. 28; Sp. p. 4979; Gaz. vol. 146; p. 880.
- Blackstone Webbing Co. (See Sawyer, E. H., assignor.)
- Blackwell, E. O., Winyard, Tasmania, Australia. Ship-ventilator and connections thereto. No. 914,230; Mar. 2; Sp. p. 1231; Gaz. vol. 140; p. 192.
- Blackwell, E. O., Winyard, Tasmania, Australia. Securing taps in receptacles for holding liquids. No. 918,117; Apr. 13; Sp. p. 2356; Gaz. vol. 141; p. 422.
- Blackwood, J. P., Athens, assignor of one-half to F. S. Hooker, Lancaster, Ohio. Railway-switch-operating mechanism. No. 923,802; June 8; Sp. p. 1602; Gaz. vol. 143; p. 265.
- Blackwood, J. P., Athens, assignor of one-half to F. S. Hooker, Lancaster, Ohio. Railway-switch-operating mechanism. No. 923,803; June 8; Sp. p. 1605; Gaz. vol. 143; p. 265.
- Blackwood, J. P., Athens, assignor of one-half to F. S. Hooker, Lancaster, Ohio. Railway-switch-operating mechanism. No. 923,804; June 8; Sp. p. 1609; Gaz. vol. 143; p. 265.
- Bladholm, A. (See Bladholm, J. and A.)
- Bladholm, J. and A., Marshall, Minn. Drag. No. 941,340; Nov. 23; Sp. p. 6365; Gaz. vol. 148; p. 1065.
- Blain, F. A., Fort Worth, Tex. Saw-filing machine. No. 919,814; Apr. 27; Sp. p. 6143; Gaz. vol. 141; p. 1048.
- Blair, A., Orillia, Ontario, Canada. Leveling instrument. No. 909,529; Jan. 12; Sp. p. 2215; Gaz. vol. 138; p. 393.
- Blair, C. G., Great Cacapon, W. Va. Meat-holder. No. 930,722; Aug. 10; Sp. p. 2258; Gaz. vol. 145; p. 392.
- Blair Engineering Company. (See Blair, T. S., Jr., assignor.)
- Blair, G. M., St. Louis, Mo. Sliding-door lock. No. 910,897; Jan. 26; Sp. p. 5036; Gaz. vol. 138; p. 907.
- Blair, H. S., Bucyrus, Ohio. Corn-husker. No. 917,527; Apr. 6; Sp. p. 1118; Gaz. vol. 141; p. 195.
- Blair, J., New York, N. Y. Clip for fountain-pens, &c. No. 909,862; Jan. 19; Sp. p. 2875; Gaz. vol. 138; p. 537.
- Blair, J., Lincoln, Neb. Horse-cover. No. 921,580; May 11; Sp. p. 3035; Gaz. vol. 142; p. 521.
- Blair, J. H., Quebec, Quebec, Canada. Rod for cleaning rifles and the like. No. 933,285; Sept. 7; Sp. p. 582; Gaz. vol. 146; p. 89.
- Blair Port Company. (See Blair, T. S., Jr., assignor.) (Reissue.)
- Blair, S. K., Fort Wayne, Ind., and C. B. Hoyt, Bellevue, Ohio. Switch-stand. No. 937,758; Oct. 26; Sp. p. 4496; Gaz. vol. 147; p. 781.
- Blair, T. S., Jr., Elmhurst, Ill. Furnace. No. 927,093; July 6; Sp. p. 842; Gaz. vol. 144; p. 135.
- Blair, T. S., Jr., Elmhurst, Ill., assignor to Blair Port Company, New York, N. Y. Furnace. (Reissue.) No. 12,939; Apr. 13; Sp. p. 3108; Gaz. vol. 144; p. 544.
- Blair, T. S., Jr., Elmhurst, assignor to Blair Engineering Company, Chicago, Ill. Manufacture of open-hearth steel. No. 927,097; July 6; Sp. p. 840; Gaz. vol. 144; p. 134.
- Blair, T. S., Jr., Elmhurst, assignor, by mesne assignments, to Blair Engineering Company, Chicago, Ill. Reversing apparatus for regenerative furnaces. No. 929,277; July 27; Sp. p. 5350; Gaz. vol. 144; p. 942.
- Blair, W. W., Newtonville, Mass. Vehicle-spring. No. 915,264; Mar. 16; Sp. p. 3329; Gaz. vol. 140; p. 581.
- Blaissdell, C. L., Milton, N. H. Boot or shoe. No. 911,025; Feb. 2; Sp. p. 5; Gaz. vol. 139; p. 4.
- Blaissdell, F. E., Kensington, London, England. Printing-machine. No. 927,099; July 6; Sp. p. 843; Gaz. vol. 144; p. 135.
- Blaissdell Filtration Company. (See Blaissdell, H. W., assignor.) (Reissue.)
- Blaissdell, H. W., Los Angeles, Cal. Apparatus for handling material. No. 910,986; Jan. 26; Sp. p. 5193; Gaz. vol. 138; p. 936.
- Blaissdell, H. W., assignor to Blaissdell Filtration Company, Los Angeles, Cal. Distributing-machine for closed filters. (Reissue.) No. 12,932; Mar. 30; Sp. p. 6675; Gaz. vol. 140; p. 1190.
- Blaissdell, H. W., and G. P. Baldwin, Los Angeles, Cal. Hose-reel. No. 923,320; June 1; Sp. p. 490; Gaz. vol. 143; p. 70.
- Blaissdell, H. W. and H. A. Brooks, Los Angeles, Cal. Filter-leaf. No. 925,554; June 22; Sp. p. 5142; Gaz. vol. 143; p. 906.
- Blaissdell Machinery Company. (See Diserens, R. F., assignor.)
- Blake, A. D. (See Blake, H. T. and A. D.)
- Blake, C. C., Brookline, Mass. Tag. No. 915,157; Mar. 16; Sp. p. 3120; Gaz. vol. 140; p. 547.
- Blake, C. C., Brookline, Mass. Extension-rod. No. 935,885; Oct. 5; Sp. p. 616; Gaz. vol. 147; p. 89.
- Blake, C. F., Chicago, and C. W. Aveling, Morgan Park, assignors to Calumet Engineering Works, Harvey, Ill. Fluid hoisting machinery. No. 917,992; Apr. 13; Sp. p. 2105; Gaz. vol. 141; p. 378.
- Blake Crusher and Pulverizer Company. (See Blake, J. E., assignor.)
- Blake, E. W. (See Hersey and Blake.)
- Blake, F. O., Pittsburg, Pa., assignor of one-half to G. H. Lutz, Kansas City, Mo. Heating and mixing plant. No. 924,132; June 8; Sp. p. 2223; Gaz. vol. 143; p. 370.
- Blake, G. A., New Bedford, Mass. Valve. No. 927,100; July 6; Sp. p. 847; Gaz. vol. 144; p. 135.
- Blake, H. T., Ross, England. Fire-extinguisher and other air-pressure liquid-ejecting vessel. No. 931,255; Aug. 17; Sp. p. 3448; Gaz. vol. 145; p. 598.
- Blake, H. T. and A. D., Oceanside, Cal. Dish-carrier. No. 924,133; June 8; Sp. p. 2226; Gaz. vol. 143; p. 371.
- Blake, J. D., Rock Island, Ill. Pipe-closure. No. 921,069; May 11; Sp. p. 1995; Gaz. vol. 142; p. 351.
- Blake, J. E., assignor to Blake Crusher and Pulverizer Company, Pittsburg, Pa. Crushing-machine. No. 944,999; Dec. 28; Sp. p. 6375; Gaz. vol. 149; p. 1095.
- Blake, J. H., *et al.* (See Woodruff and Macy, assignors.)
- Blake & Johnson Co. (See Pilcher, A. C., assignor.)
- Blake and Johnson Company. (See Ingraham, E. S., assignor.)
- Blake, L. I., Denver, Colo. Ionizer or apparatus for producing gaseous ions. No. 913,941; Mar. 2; Sp. p. 593; Gaz. vol. 140; p. 95.
- Blake, L. I., Denver, Colo. Process of and apparatus for the production of ions. No. 937,759; Oct. 26; Sp. p. 4503; Gaz. vol. 147; p. 781.
- Blake, L. I., Lawrence, and L. N. Morscher, Neodesha, Kans., assignors to Blake Mining & Milling Company, Denver, Colo. Electrostatic separating process. No. 924,032; June 8; Sp. p. 2040; Gaz. vol. 143; p. 339.
- Blake Mining & Milling Company. (See Blake and Morscher, assignors.)
- Blake, O. W., assignor to J. J. Brown, Denver, Colo. Pipe-wrench. No. 921,581; May 11; Sp. p. 3036; Gaz. vol. 142; p. 521.
- Blake, S., Cliftondale, Mass. Clamp. No. 923,805; June 8; Sp. p. 1613; Gaz. vol. 143; p. 267.
- Blake, S. L., Paducah, Tex. Pipe puller and holder. No. 935,186; Sept. 28; Sp. p. 4448; Gaz. vol. 146; p. 792.
- Blake, W. F. (See Smith, O. F., assignor.)
- Blake Wrench Manufacturing Company. (See Moffat, W. A., assignor.)
- Blaker, G. H., and J. H. Towers, Maumee, Ohio. Protective vest. No. 921,352; May 11; Sp. p. 2596; Gaz. vol. 142; p. 447.
- Blaker, J. L., Blaker Mills, W. Va. Dumping-car. No. 924,726; June 15; Sp. p. 3510; Gaz. vol. 143; p. 603.
- Blakeslee, D. R., Van Buren, Ind., and H. W. Blakeslee, Nowata, Okla. Belt-tightener. No. 941,226; Nov. 23; Sp. p. 6145; Gaz. vol. 148; p. 1030.
- Blakeslee, G. S., Chicago, Ill. Ice-shaving machine. No. 933,154; Sept. 7; Sp. p. 238; Gaz. vol. 146; p. 41.
- Blakeslee, H. A., Hartford, Conn. Can-filling machine. No. 920,250; May 4; Sp. p. 330; Gaz. vol. 142; p. 52.
- Blakeslee, H. W. (See Blakeslee, D. R. and H. W.)



*Alphabetical list of patentees—Continued.*

- Blakeslee, J. R., assignor to Ajax Manufacturing Company, Cleveland, Ohio. Metal bending and forging machine. No. 929,073; July 27; Sp. p. 4903; Gaz. vol. 144; p. 875.
- Blakeslee, J. R., assignor to Ajax Manufacturing Company, Cleveland, Ohio. Bolt-header. No. 943,335; Dec. 14; Sp. p. 2799; Gaz. vol. 149; p. 472.
- Blakeslee, J. R., deceased, Glenville; J. R. Blakeslee, Jr., administrator, assignor to Ajax Manufacturing Company, Cleveland, Ohio. Planing-machine. No. 927,448; July 6; Sp. p. 1506; Gaz. vol. 144; p. 250.
- Blakeslee, J. R., Jr., administrator. (See Blakeslee, J. R.)
- Blakeslee, J. R., Jr., assignor to Ajax Manufacturing Company, Cleveland, Ohio. Back-stop for forging-machines. No. 943,377; Dec. 14; Sp. p. 2890; Gaz. vol. 149; p. 486.
- Blakeslee, M. D., Cazenovia, N. Y. Can feeding and righting machine. No. 934,134; Sept. 14; Sp. p. 2389; Gaz. vol. 146; p. 391.
- Blakeslee, R. I. (See Baillif, M. A., assignor.)
- Blakeslee, R. I. (See Somers, C. E., assignor.)
- Blakeslee, W. L. (See Partie, W. A., assignor.)
- Blakesley Keyless Lock Company. (See Blakesley, O. J., assignor.)
- Blakesley, O. J., assignor to Blakesley Keyless Lock Company, Denver, Colo. Keyless padlock. No. 919,415; Apr. 27; Sp. p. 5269; Gaz. vol. 141; p. 912.
- Blakestad, L., and O. A. Anderson, Lyle, Minn. Road-culvert. No. 911,368; Feb. 2; Sp. p. 675; Gaz. vol. 139; p. 116.
- Bläkkän, I. J. (See Hestness, B., assignor.)
- Blalock, A. L., Madison, Fla. Buggy-top lock. No. 912,278; Feb. 16; Sp. p. 2583; Gaz. vol. 139; p. 476.
- Blampied, B., Elmira, N. Y. Rail-joint. No. 929,750; Aug. 3; Sp. p. 245; Gaz. vol. 145; p. 42.
- Blan, E. P., et al. (See Culbertson, G. W. R., assignor.)
- Blanc Stainless Cement Company. (See Carrère, J. M., assignor.)
- Blanch, T. J., Highland Falls, N. Y. Variable-speed mechanism. No. 923,321; June 1; Sp. p. 494; Gaz. vol. 143; p. 70.
- Blanch, T. J., Highland Falls, N. Y. Phonograph-machine. No. 935,773; Oct. 5; Sp. p. 336; Gaz. vol. 147; p. 51.
- Blanchard, C. H., deceased, Webster Groves, Mo.; M. J. Blanchard, executrix. Egg-boiler. No. 915,711; Mar. 16; Sp. p. 4245; Gaz. vol. 140; p. 732.
- Blanchard Co., J. F. (See Goddard, A. C., assignor.)
- Blanchard, F. C., and E. B. Crocker, assignors to Ashcroft Manufacturing Company, Bridgeport, Conn. Frame for gage-movements. No. 940,379; Nov. 16; Sp. p. 4318; Gaz. vol. 148; p. 723.
- Blanchard, F. C., and P. G. Darling, assignors to Consolidated Safety Valve Company, Bridgeport, Conn. Valve. No. 915,544; Mar. 16; Sp. p. 3884; Gaz. vol. 140; p. 673.
- Blanchard, F. C., and P. G. Darling, assignors to Consolidated Safety Valve Company, Bridgeport, Conn. Cap for valves. No. 915,930; Mar. 23; Sp. p. 4671; Gaz. vol. 140; p. 828.
- Blanchard, F. C., and P. G. Darling, assignors to Consolidated Safety Valve Company, Bridgeport, Conn. Cover-ring for valves. No. 917,920; Apr. 13; Sp. p. 1941; Gaz. vol. 141; p. 352.
- Blanchard, G. N. (See Levy and Blanchard.)
- Blanchard, M. J., executrix. (See Blanchard, C. H.)
- Blank, E. M., Perkiomenville, Pa. Folding clothes-rack. No. 936,080; Oct. 5; Sp. p. 1018; Gaz. vol. 147; p. 154.
- Bland, J. T., Pittsboro, N. C. Road-scraper. No. 917,528; Apr. 6; Sp. p. 1119; Gaz. vol. 141; p. 195.
- Bland, W. W., Marshall, Tex. Churn. No. 909,054; Jan. 5; Sp. p. 1268; Gaz. vol. 138; p. 203.
- Blandford, G. M., assignor to Bates & Blandford, Boston, Mass. Sash-lock. No. 941,059; Nov. 23; Sp. p. 5770; Gaz. vol. 148; p. 974.
- Blandford, H. C. (See Barr, G. T., Sr., assignor.)
- Blangey, L. (See Julius and Blangey.)
- Blangey, L. (See Julius, Fussenegger, and Blangey.)
- Blanke, C. F., St. Louis, Mo. China coffee-pot. No. 909,528; Jan. 12; Sp. p. 2214; Gaz. vol. 138; p. 393.
- Blanke, C. F., St. Louis, Mo. Coffee-pot. No. 943,512; Dec. 14; Sp. p. 3182; Gaz. vol. 149; p. 535.
- Blankenberger, F., Philadelphia, Pa. Mail catching and transferring apparatus. No. 928,735; July 20; Sp. p. 4220; Gaz. vol. 144; p. 735.
- Blankenburg, C., Leipzig-Sellershausen, assignor to H. Schneider, Actiengesellschaft, Leipzig, Germany. Central-draft incandescent oil-lamp. No. 927,769; July 13; Sp. p. 2215; Gaz. vol. 144; p. 384.
- Blankenburg, R. E., Grand Rapids, Mich. Saw-filing device. No. 924,134; June 8; Sp. p. 2227; Gaz. vol. 143; p. 371.
- Blankenheim, C., Chicago, Ill. Spring-fork for bicycles. No. 934,708; Sept. 21; Sp. p. 3493; Gaz. vol. 146; p. 608.
- Blankenship, O. B., and H. B. Sherwood, Kansas City, Mo. Dash-pot. No. 920,251; May 4; Sp. p. 333; Gaz. vol. 142; p. 52.
- Blankenship, H. S., Norfolk, Va. Railway appliance. No. 932,104; Aug. 24; Sp. p. 5276; Gaz. vol. 145; p. 899.
- Blanthorn, J. E. (See Donnelly and Blanthorn.)
- Blasberg, E., Düsseldorf-Derendorf, Germany. Heat-accumulator for self-cooking apparatus. No. 920,719; May 4; Sp. p. 1287; Gaz. vol. 142; p. 206.
- Blashfield, J. M., Kalamazoo, assignor of one-half to P. V. Blashfield, Marshall, Mich. Appliance for relief of headache. No. 924,596; June 8; Sp. p. 3215; Gaz. vol. 143; p. 526.
- Blashfield, P. V. (See Blashfield, J. M., assignor.)
- Blasier, G. M., assignor to Camden Cabinet Company, Camden, N. Y. Knockdown case. No. 934,033; Sept. 14; Sp. p. 2160; Gaz. vol. 146; p. 357.
- Blasius Piano Company. (See Wuest, P., Jr., assignor.)
- Blaszcyk, J., New York, N. Y. Lock. No. 931,256; Aug. 17; Sp. p. 3449; Gaz. vol. 145; p. 599.
- Blaszcyk, J., New York, N. Y. Key. No. 939,184; Nov. 2; Sp. p. 1572; Gaz. vol. 148; p. 255.
- Blau, F., assignor to Deutsche Gasglühlicht Aktiengesellschaft (Auer-gesellschaft), Berlin, Germany. Producing metallic incandescent bodies for electric glow-lamps. No. 916,659; Mar. 30; Sp. p. 6099; Gaz. vol. 140; p. 1093.
- Blau, F., assignor to Deutsche Gasglühlicht Aktiengesellschaft (Auer-gesellschaft), Berlin, Germany. Pocket electric incandescent lamp. No. 916,833; Mar. 30; Sp. p. 6406; Gaz. vol. 140; p. 1145.
- Blau, H., Augsburg, Germany. Incandescent gas-lamp. No. 927,770; July 13; Sp. p. 2217; Gaz. vol. 144; p. 384.
- Blau, H., Augsburg, Germany. Carriage-lamp. No. 939,385; Nov. 9; Sp. p. 2094; Gaz. vol. 148; p. 349.
- Blauhorn, E., Vienna, Austria-Hungary. Lubricator for locomotives. No. 930,525; Aug. 10; Sp. p. 1864; Gaz. vol. 145; p. 329.
- Blauvac, E., Paris, France. Device for stretching iron bands of packing-cases. No. 917,407; Apr. 6; Sp. p. 906; Gaz. vol. 141; p. 157.
- Blauvelt, A., Chicago, Ill. Pump. No. 911,569; Feb. 9; Sp. p. 1063; Gaz. vol. 139; p. 208.
- Blauvelt, A., Chicago, Ill. Sprinkler-head. No. 920,252; May 4; Sp. p. 334; Gaz. vol. 142; p. 52.
- Blauvelt, A., Chicago, Ill. Fire-extinguisher valve. No. 940,953; Nov. 23; Sp. p. 5546; Gaz. vol. 148; p. 939.
- Blaw Collapsible Steel Centering Company. (See Blaw, J. B., assignor.)
- Blaw, J. B., assignor to Blaw Collapsible Steel Centering Company, Pittsburg, Pa. Mold. No. 933,017; Aug. 31; Sp. p. 7123; Gaz. vol. 145; p. 1224.
- Blayne, T. C. (See Coffey and Blayne.)
- Blazer, A. N., assignor to Blazer Spiral Engine Company, Mescalero, N. Mex. Ter. Rotary engine. No. 916,258; Mar. 23; Sp. p. 5283; Gaz. vol. 140; p. 935.
- Blazer Spiral Engine Company. (See Blazer, A. N., assignor.)
- Bleaking, H. J., Herkimer, N. Y. Making drawer-pulls and similar articles. No. 919,815; Apr. 27; Sp. p. 6147; Gaz. vol. 141; p. 1048.
- Blean, R. C., assignor, by mesne assignments, to American Wheel Company, Sturgis, Mich. Wheel. No. 918,118; Apr. 13; Sp. p. 2357; Gaz. vol. 141; p. 422.
- Bleashack, J. K., Bloomer, Wis. Potato digging and gathering machine. No. 940,121; Nov. 16; Sp. p. 3716; Gaz. vol. 148; p. 633.
- Bleeschmidt, E. O., Rock Island, Ill. Skirt-trimmer. No. 931,257; Aug. 17; Sp. p. 3454; Gaz. vol. 145; p. 599.
- Bleibtrey, J. E. (See McAndrews and Bleibtrey.)
- Bleicher, C., Gross Lichterfelde, Germany. Rail-joint. No. 915,067; Mar. 16; Sp. p. 2895; Gaz. vol. 140; p. 516.
- Bleichner, J. A. (See Roberts, H., assignor.)
- Bleiker, J. (See Kohler and Bleiker.)
- Bleilevens, N. (See Hastreiter and Bleilevens.)
- Blekastad, K., Seattle, Wash. Ticket-holder. No. 934,386; Sept. 14; Sp. p. 2855; Gaz. vol. 146; p. 476.
- Blonckstone, F. E., Oradell, N. J. Sanitary mouthpiece for drinking-glasses. No. 924,135; June 8; Sp. p. 2228; Gaz. vol. 143; p. 371.
- Blenkner, F. C. (See Bassell and Blenkner.)
- Blessing, C. A., Philadelphia, Pa. Pipe-coupling. No. 927,101; July 6; Sp. p. 848; Gaz. vol. 144; p. 136.
- Blessing, J. H., Albany, N. Y. Valve. No. 930,135; Aug. 3; Sp. p. 1081; Gaz. vol. 145; p. 175.
- Blessing, L., Jackson, Mich. Wire-twisting machine. No. 919,309; Apr. 27; Sp. p. 5046; Gaz. vol. 141; p. 876.
- Blessing, L., Jackson, Mich. Wire-twisting machine. No. 940,231; Nov. 16; Sp. p. 3948; Gaz. vol. 148; p. 671.
- Blessing, L., M. L. Aten, and G. H. Poirier, said Aten assignor of one-half to J. J. Bennett, Jackson, Mich. Letter-canceling machine. No. 941,848; Nov. 30; Sp. p. 7493; Gaz. vol. 148; p. 1259.
- Blessing, M. J., Providence, R. I. Pin. No. 911,026; Feb. 2; Sp. p. 6; Gaz. vol. 139; p. 4.

*Alphabetical list of patentees—Continued.*

- Blevins, D. T. (See Giddings and Blevins.)  
 Blevney, J. C., Newark, N. J. Belt-joint. No. 944,658; Dec. 28; Sp. p. 5660; Gaz. vol. 149; p. 982.  
 Blewett, A. R., Spokane, Wash. Harvester and like draft adjustment. No. 937,410; Oct. 19; Sp. p. 3791; Gaz. vol. 147; p. 647.  
 Bleyemehl, H., Chicago, Ill. Liquid sprayer and sprinkler. No. 916,984; Apr. 6; Sp. p. 38; Gaz. vol. 141; p. 11.  
 Bickensderfer, G. C., Stamford, Conn. Tabulator mechanism. No. 930,136; Aug. 3; Sp. p. 1083; Gaz. vol. 145; p. 175.  
 Bickley, F. A., Philadelphia, Pa. Transom and window operating mechanism. No. 925,555; June 22; Sp. p. 5144; Gaz. vol. 143; p. 907.  
 Blight, A. E., Tottenville, N. Y. Roller. No. 939,206; Nov. 9; Sp. p. 1628; Gaz. vol. 148; p. 288.  
 Biley, J. W. (See Gallagher and Biley.)  
 Blinn, J. S., New Haven, Conn. Garter-clasp. No. 921,070; May 11; Sp. p. 1997; Gaz. vol. 142; p. 351.  
 Blish, P. B., Chicago, and C. M. Bruff, Chicago Heights, assignors to Morden Frog & Crossing Works, Chicago, Ill. Switch-rod adjustment. No. 928,931; July 27; Sp. p. 4615; Gaz. vol. 144; p. 823.  
 Bliss, A. H., assignor to A. H. Bliss Company, North Attleboro, Mass. Bracelet. No. 922,451; May 25; Sp. p. 4843; Gaz. vol. 142; p. 864.  
 Bliss, C. W. (See Adelson and Bliss.)  
 Bliss, E. F., Schenectady, N. Y., assignor to General Electric Company. Target-signal. No. 924,727; June 15; Sp. p. 3511; Gaz. vol. 143; p. 604.  
 Bliss, E. F., Schenectady, N. Y., assignor to General Electric Company. Signal system. No. 928,021; July 13; Sp. p. 2731; Gaz. vol. 144; p. 466.  
 Bliss, E. J., Edgartown, and E. F. White, Quincy, assignors to Regal Shoe Company, Boston, Mass. Last. No. 914,329; Mar. 2; Sp. p. 1433; Gaz. vol. 140; p. 222.  
 Bliss, E. J., Edgartown, and E. F. White, Quincy, assignors to Regal Shoe Company, Boston, Mass. Last. No. 914,330; Mar. 2; Sp. p. 1434; Gaz. vol. 140; p. 222.  
 Bliss, E. J., Edgartown, and E. F. White, Quincy, assignors to Regal Shoe Company, Boston, Mass. Shoe-forming last. No. 914,331; Mar. 2; Sp. p. 1436; Gaz. vol. 140; p. 222.  
 Bliss, W. L., Brooklyn, N. Y. Train-line coupling. No. 910,040; Jan. 19; Sp. p. 3239; Gaz. vol. 138; p. 597.  
 Bliss, W. L., New York, N. Y. Circuit-controller. No. 926,164; June 29; Sp. p. 6443; Gaz. vol. 143; p. 1142.  
 Bliss, W. L., New York, N. Y. Lighting system. No. 926,165; June 29; Sp. p. 6446; Gaz. vol. 143; p. 1143.  
 Bliss, W. L., New York, N. Y. Lighting system. No. 927,482; July 13; Sp. p. 1594; Gaz. vol. 144; p. 287.  
 Blitz, R. J. (See Gerard, A. G., assignor.)  
 Blizard, S. E., Franklin, Ind. Liquid-measure. No. 923,618; June 1; Sp. p. 1136; Gaz. vol. 143; p. 174.  
 Bloch, A., Paris, France. Electric burglar-alarm. No. 913,684; Mar. 2; Sp. p. 10; Gaz. vol. 140; p. 5.  
 Blocher, D. L., Bordulac, N. D. Sled-runner. No. 943,513; Dec. 14; Sp. p. 3183; Gaz. vol. 149; p. 535.  
 Blochman, L. A., San Diego, Cal. Combined ledger and file. No. 935,353; Sept. 28; Sp. p. 4797; Gaz. vol. 146; p. 848.  
 Block, A. E., St. Louis, Mo. Shoe-shank support. No. 917,841; Apr. 13; Sp. p. 1764; Gaz. vol. 141; p. 324.  
 Block, J. W., Joliet, Ill. Pulverizer. No. 937,411; Oct. 19; Sp. p. 3792; Gaz. vol. 147; p. 647.  
 Block Light Company. (See Kaufmann, O., assignor.)  
 Blodgett, A. D., Newton, and F. S. Atkinson, Brookline, assignors to Blodgett Clock Company, Boston, Mass. Self-winding mechanism. No. 939,791; Nov. 9; Sp. p. 2969; Gaz. vol. 148; p. 488.  
 Blodgett Clock Company. (See Blodgett and Atkinson, assignors.)  
 Blodgett, F. E., Newark, N. J. Fire-extinguisher. No. 944,715; Dec. 28; Sp. p. 5783; Gaz. vol. 149; p. 1000.  
 Blodgett, S. H., South Lincoln, Mass. Gas-stove. No. 941,908; Nov. 30; Sp. p. 7608; Gaz. vol. 148; p. 1281.  
 Blodgett, W. E., *et al.*, executors. (See Guastavino, R.)  
 Blodgett, W. K., Cambridge Mass. Seal-lock. No. 938,813; Nov. 2; Sp. p. 778; Gaz. vol. 148; p. 125.  
 Bloedt, A., *et al.* (See Mentzer, C. E., assignor.)  
 Blohm, C. A., and C. H. Chamberlin, assignors to Federal Metal Weather Strip Company, Milwaukee, Wis. Weather-strip. No. 934,709; Sept. 21; Sp. p. 3495; Gaz. vol. 146; p. 608.  
 Blohn and Voss, Commanditgesellschaft auf Actien. (See Dahl, J., assignor.)  
 Blomberg, E., Milaca, Minn. Bolt-puller. No. 936,755; Oct. 12; Sp. p. 2418; Gaz. vol. 147; p. 403.  
 Blomberg, E. C., assignor of one-half to F. Olander, Rockford, Ill. Knockdown cabinet. No. 921,582; May 11; Sp. p. 3037; Gaz. vol. 142; p. 522.  
 Blome Company, R. S. (See Blome and Sinek, assignors.)  
 Blome, R. S., and W. J. Sinek, assignors to R. S. Blome Company, Chicago, Ill. Pavement. No. 919,530; Apr. 27; Sp. p. 5537; Gaz. vol. 141; p. 952.  
 Blomgren, H. E. B., Palmyra, N. J. Engine. No. 926,540; June 29; Sp. p. 7165; Gaz. vol. 143; p. 1266.  
 Blomgren, N. J. (See Box and Brown, assignors.)  
 Blomquist, F. L., La Honda, Cal. Saw-handle. No. 913,462; Feb. 23; Sp. p. 5024; Gaz. vol. 139; p. 897.  
 Blood, C. E., assignor to E. H. Yorke, Portland, Me. Deodorizer. No. 931,029; Aug. 17; Sp. p. 2944; Gaz. vol. 145; p. 521.  
 Blood, C. W. H., Winthrop, assignor to S. A. Woods Machine Company, Boston, Mass. Wood-planer for narrow work. No. 921,904; May 11; Sp. p. 1661; Gaz. vol. 142; p. 296.  
 Blood, C. W. H., Winthrop, assignor to S. A. Woods Machine Company, Boston, Mass. Wood-planer for narrow work. (Reissue.) No. 12,986; July 13; Sp. p. 3166; Gaz. vol. 144; p. 539.  
 Blood, C. W. H., assignor to S. A. Woods Machine Company, Boston, Mass. Truing device for truing shaped cutters in running cutter-heads. No. 944,010; Dec. 21; Sp. p. 4268; Gaz. vol. 149; p. 734.  
 Blood, E. J., Chicago, Ill. Hydrostatic scale or educational appliance. No. 931,840; Aug. 24; Sp. p. 4687; Gaz. vol. 145; p. 812.  
 Bloom, G. M., Detroit, Mich. Drain-pipe cleaner. No. 944,311; Dec. 28; Sp. p. 4887; Gaz. vol. 149; p. 861.  
 Bloom, J. H., Freeport, Ill. Fertilizer-distributor. No. 935,579; Sept. 28; Sp. p. 5255; Gaz. vol. 146; p. 921.  
 Bloom, J. H., Freeport, Ill. Manure-spreader. No. 943,731; Dec. 21; Sp. p. 3671; Gaz. vol. 149; p. 638.  
 Bloom, J. S., Independence, Iowa. Corn cutter and crusher. No. 930,137; Aug. 3; Sp. p. 1089; Gaz. vol. 145; p. 176.  
 Bloom, P., New York, N. Y. Chimney-ventilator. No. 933,051; Sept. 7; Sp. p. 18; Gaz. vol. 146; p. 5.  
 Bloom, R. F., Starbuck, Minn. Whiffletree-hook. No. 942,431; Dec. 7; Sp. p. 826; Gaz. vol. 149; p. 135.  
 Bloom, S. S., Philadelphia, Pa. Artificial tooth. No. 908,643; Jan. 5; Sp. p. 448; Gaz. vol. 138; p. 72.  
 Bloom, V., Chicago, Ill. Valve device. No. 927,632; July 13; Sp. p. 1932; Gaz. vol. 144; p. 339.  
 Bloom, V., Chicago, Ill. Sewing-machine structure. No. 943,623; Dec. 14; Sp. p. 3430; Gaz. vol. 149; p. 572.  
 Bloom, W. A., Rochester, N. Y. Basin. No. 917,529; Apr. 6; Sp. p. 1120; Gaz. vol. 141; p. 196.  
 Bloomberg, L., assignor of one-half to S. Fink, New York, N. Y. Apparatus for curing and smoking meats. No. 935,886; Oct. 5; Sp. p. 617; Gaz. vol. 147; p. 89.  
 Bloomer, C. G., Jr., Cranston, R. I. Cover-hinge. No. 935,087; Sept. 28; Sp. p. 4258; Gaz. vol. 146; p. 761.  
 Bloomer, C. T., Newark, N. Y. Paper vessel. (Reissue.) No. 13,005; Aug. 10; Sp. p. 2923; Gaz. vol. 145; p. 492.  
 Bloomer, C. T., Newark, N. Y. Folding egg-box. No. 939,661; Nov. 9; Sp. p. 2693; Gaz. vol. 148; p. 444.  
 Bloomer, J. G. B., Atlantic City, N. J. Non-refillable bottle. No. 935,887; Oct. 5; Sp. p. 618; Gaz. vol. 147; p. 89.  
 Bloomer, T., Troy, N. Y. Anchor. No. 915,545; Mar. 16; Sp. p. 3885; Gaz. vol. 140; p. 674.  
 Bloss, W. G., Los Angeles, Cal. Fuel. No. 930,526; Aug. 10; Sp. p. 1865; Gaz. vol. 145; p. 329.  
 Blossom, C. C., Wickford, R. I. Non-refillable vessel. No. 935,957; Oct. 5; Sp. p. 761; Gaz. vol. 147; p. 113.  
 Blossom, G. C., La Grange, N. Y. Track-board support. No. 919,119; Apr. 20; Sp. p. 4462; Gaz. vol. 141; p. 779.  
 Blot, L. P., Springfield, Mass. Drop-hammer. No. 942,708; Dec. 7; Sp. p. 1395; Gaz. vol. 149; p. 229.  
 Blough, E., Parnassus, assignor to Aluminum Company of America, Pittsburg, Pa. Making castings of aluminum and aluminum alloys. No. 915,727; Mar. 23; Sp. p. 4300; Gaz. vol. 140; p. 764.  
 Blough, E., Parnassus, assignor to Aluminum Company of America, Pittsburg, Pa. Mold for making castings of aluminum and aluminum alloys. No. 915,728; Mar. 23; Sp. p. 4302; Gaz. vol. 140; p. 765.  
 Blouke, M. B., Chicago, Ill. Distilling apparatus. No. 919,685; Apr. 27; Sp. p. 5853; Gaz. vol. 141; p. 1005.  
 Blount, W. T., Jr., Springfield, Ga. Combination lock and latch. No. 924,421; June 8; Sp. p. 2868; Gaz. vol. 143; p. 468.  
 Blow, C. H., Grandville, Cal., assignor to United States Pick Company. Pick. No. 938,955; Nov. 2; Sp. p. 1105; Gaz. vol. 145; p. 176.  
 Blow, M., East Charlotte, Vt. Rack for holding life-preservers. No. 924,881; June 15; Sp. p. 3836; Gaz. vol. 143; p. 655.  
 Blowers, A. J., Berne, Ind. Brooder. No. 942,769; Dec. 7; Sp. p. 1524; Gaz. vol. 149; p. 250.  
 Blowers, W. R., Toronto, Ontario, Canada. Bath and complexion brush. No. 926,462; June 29; Sp. p. 7036; Gaz. vol. 143; p. 1240.  
 Blue, C. W., assignor to Janney & Company, Montgomery, Ala. Flask for forming gated molds. No. 936,081; Oct. 5; Sp. p. 1019; Gaz. vol. 147; p. 154.  
 Blue, G. (See Williamson and Blue.)  
 Blue, H. L., Gonzales, Tex. Pie-plate lifter. No. 918,729; Apr. 20; Sp. p. 3689; Gaz. vol. 141; p. 654.  
 Bluemel, C. W., *et al.* (See Shill, P. R., assignor.)  
 Bluemel, E. A., *et al.* (See Shill, P. R., assignor.)  
 Bluemel, F. H., *et al.* (See Shill, P. R., assignor.)



*Alphabetical list of patentees—Continued.*

- Blum, A. L. (See Gleason, Zechenelly, and Blum.)
- Blum, H., New York, N. Y. Glass-rinser. No. 927,320; July 6; Sp. p. 1252; Gaz. vol. 144; p. 206.
- Blum, J. R., Paris, France, assignor to International Aspirator Company Limited, London, England. Dust-removing pneumatic machine. No. 917,993; Apr. 13; Sp. p. 2108; Gaz. vol. 141; p. 378.
- Blümel, B., assignor to Allis-Chalmers Company, Milwaukee, Wis. Regulating-valve. No. 939,792; Nov. 9; Sp. p. 2973; Gaz. vol. 148; p. 489.
- Blumenauer, A. (See Willis, J. W., assignor.)
- Blumenfeld, J. B. (See Friedman, Blumenfeld, and Strimban.)
- Blumenstock, G. (See Dieterich, J. A., assignor.)
- Blumhof, W. (See Amos, G. W., assignor.)
- Blunden, A. W., Sebastopol, Cal. Kettle-still. No. 911,467; Feb. 2; Sp. p. 840; Gaz. vol. 139; p. 148.
- Blunt, J. G., Schenectady, assignor to American Locomotive Company, New York, N. Y. By-pass valve for locomotives. No. 921,583; May 11; Sp. p. 3038; Gaz. vol. 142; p. 522.
- Bly, A. B., Des Moines, Iowa. Pencil-sharpener. No. 912,357; Feb. 16; Sp. p. 2754; Gaz. vol. 139; p. 502.
- Blystone, P. L., Cambridge Springs, Pa. Mortar-mixer. No. 925,744; June 22; Sp. p. 5551; Gaz. vol. 143; p. 967.
- Boal, S., Plaquia, Ohio. Stove. No. 916,660; Mar. 30; Sp. p. 6100; Gaz. vol. 140; p. 1093.
- Board, I. D., assignor of one-half to D. E. Shipley, Cecilian, Ky. Wrench. No. 938,956; Nov. 2; Sp. p. 1106; Gaz. vol. 148; p. 176.
- Boardman, C. S., assignor to Lackawanna Steel Company, Buffalo, N. Y. Interlocking sheet-piling. No. 923,110; May 25; Sp. p. 6215; Gaz. vol. 142; p. 1078.
- Boatright, J. B., Del Rio, Tex. Book-guard. No. 944,124; Dec. 21; Sp. p. 4503; Gaz. vol. 149; p. 773.
- Boax, J. J. (See Patterson and Boax.)
- Bobbitt, H. P., assignor of one-third to J. Harriman and one-third to J. A. Harriman, Los Angeles, Cal. Furnace. No. 944,591; Dec. 28; Sp. p. 5534; Gaz. vol. 149; p. 959.
- Bober, S., St. Louis, Mo. Toy. No. 916,661; Mar. 30; Sp. p. 6101; Gaz. vol. 140; p. 1093.
- Boberg, C. E., Fort Worth, Tex. Box. No. 923,111; May 25; Sp. p. 6219; Gaz. vol. 142; p. 1078.
- Bobrick, G. A., Los Angeles, Cal. Apparatus for liquefaction of gases and separation of air into commercial oxygen and nitrogen. No. 908,644; Jan. 5; Sp. p. 449; Gaz. vol. 138; p. 72.
- Bobrick, G. A., Los Angeles, Cal. Liquefaction of gases and separation of air into commercial oxygen and nitrogen. No. 924,136; June 8; Sp. p. 2230; Gaz. vol. 143; p. 377.
- Bobrick, G. A., assignor, by mesne assignments, to United States Liquid Air & Oxygen Company, Los Angeles, Cal. Apparatus for liquefaction of gases. No. 924,137; June 8; Sp. p. 2239; Gaz. vol. 143; p. 372.
- Bock, A., Brunswick, Germany, and W. A. Kramer, Chambersburg, Pa. Grinding-mill. No. 925,987; June 22; Sp. p. 6062; Gaz. vol. 143; p. 1048.
- Bock, J., Radebeul, near Dresden, Germany. Manufacture of large crystals. No. 910,490; Jan. 26; Sp. p. 4224; Gaz. vol. 138; p. 777.
- Bock, W., Prinzenthall, near Bromberg, Germany. Diffusion apparatus. No. 923,760; June 1; Sp. p. 1425; Gaz. vol. 143; p. 221.
- Bock, W. E., assignor to Toledo Glass Company, Toledo, Ohio. Machine for making glass articles. No. 919,120; Apr. 20; Sp. p. 4463; Gaz. vol. 141; p. 780.
- Böckem, W., Rath, near Dusseldorf, assignor to W. Graaff & Compagnie, Ges. mit beschr. Haftung, Berlin, Germany. Fire-extinguishing apparatus with siphon arrangement. No. 928,897; July 20; Sp. p. 4538; Gaz. vol. 144; p. 791.
- Böckemeyer, F., Assumption, Ill. Shaft-coupling. No. 917,842; Apr. 13; Sp. p. 1765; Gaz. vol. 141; p. 324.
- Bocker, C., *et al.* (See Nishimura, F. Y., assignor.)
- Bocker, H., *et al.* (See Nishimura, F. Y., assignor.)
- Bocorselski, F. E., Springfield, Mass. Drilling attachment for various classes of machines. No. 938,113; Oct. 26; Sp. p. 5248; Gaz. vol. 147; p. 900.
- Boda, J., assignor to Independent Harvester Company, Plano, Ill. Fertilizer-distributor. No. 921,667; May 18; Sp. p. 3260; Gaz. vol. 142; p. 580.
- Boda, J., assignor to Independent Harvester Company, Plano, Ill. Corn-gathering machine. No. 923,806; June 8; Sp. p. 1614; Gaz. vol. 143; p. 267.
- Boda, J., assignor to Independent Harvester Company, Plano, Ill. Clutch-shifting mechanism for fertilizer-distributors, &c. No. 930,456; Aug. 10; Sp. p. 1675; Gaz. vol. 145; p. 303.
- Boda, J., assignor to Independent Harvester Company, Plano, Ill. Clutch mechanism. No. 942,244; Dec. 7; Sp. p. 464; Gaz. vol. 149; p. 72.
- Boddy, H. W., Woodbury, N. J. Conduit-threading machine. No. 916,985; Apr. 6; Sp. p. 40; Gaz. vol. 141; p. 11.
- Boddy, M. E., assignor of one-half to N. P. Fraser, Carsonville, Mich. Axle box and washer. No. 929,189; July 27; Sp. p. 5158; Gaz. vol. 144; p. 914.
- Bode, A., Benrath, near Dusseldorf, and R. Büsing, Bremerhaven, Germany. Crane with revolving jib sluicing a complete circle. No. 921,198; May 11; Sp. p. 2253; Gaz. vol. 142; p. 397.
- Bode, A., and K. Böttcher, Benrath, near Dusseldorf, Germany. Floating crane. No. 927,934; July 13; Sp. p. 2576; Gaz. vol. 144; p. 439.
- Bode, R. R., Los Angeles, Cal. Repair attachment for piano-hammer heads. No. 934,654; Sept. 21; Sp. p. 3391; Gaz. vol. 146; p. 591.
- Boden, F. C., assignor to National Casket Company, Oneida, N. Y. Garment display and packing case. No. 935,958; Oct. 5; Sp. p. 763; Gaz. vol. 147; p. 113.
- Boden, G., Watertown, assignor to Oakville Company, Waterbury, Conn. Mailing-box. No. 932,431; Aug. 31; Sp. p. 5916; Gaz. vol. 145; p. 1031.
- Bodendieck, H. W., St. Louis, Mo. Wheel-fender for car-trucks. No. 913,192; Feb. 23; Sp. p. 4478; Gaz. vol. 139; p. 806.
- Bodensiek, J. M., New York, N. Y. Bust-supporter. No. 912,793; Feb. 16; Sp. p. 3707; Gaz. vol. 139; p. 652.
- Bodensiek, J. M., New York, N. Y. Bust-reducing attachment. No. 933,739; Sept. 14; Sp. p. 1607; Gaz. vol. 146; p. 264.
- Bodensiek, J. M., New York, N. Y. Hip-reducing attachment for corsets. No. 934,272; Sept. 14; Sp. p. 2638; Gaz. vol. 146; p. 438.
- Boderck, C., Brooklyn, assignor to American General Engineering Company, New York, N. Y. Banding or winding machine. No. 921,668; May 18; Sp. p. 3263; Gaz. vol. 142; p. 580.
- Bodge, J. W., Chicago, Ill. Lock. No. 913,942; Mar. 2; Sp. p. 595; Gaz. vol. 140; p. 95.
- Bodley, W. S., assignor to Sunlight Double Glass Sash Co., Incorporated, Louisville, Ky. Sash for hotbeds and other purposes. No. 909,361; Jan. 12; Sp. p. 1883; Gaz. vol. 138; p. 337.
- Bodman, W. L., assignor to I. Rheinstrom, Cincinnati, Ohio. Bottle-stopper. No. 927,771; July 13; Sp. p. 2218; Gaz. vol. 144; p. 384.
- Bodmer, C., assignor to Stanley Rule & Level Company, New Britain, Conn. Joint for folding rules. No. 928,174; July 13; Sp. p. 3035; Gaz. vol. 144; p. 518.
- Bodmer, E., Chicago, Ill. Clutch. No. 912,358; Feb. 16; Sp. p. 2756; Gaz. vol. 139; p. 502.
- Boecklin, A. von. (See Trommald and Boecklin.)
- Boegel, C. W. E., Lima, and J. C. Lewis, Mansfield, Ohio; said Lewis assignor to said Boegel. Pneumatic cleaning apparatus. No. 921,669; May 18; Sp. p. 3266; Gaz. vol. 142; p. 580.
- Boehm, G., Marshfield, Wis. Woven-wire bed-bottom. No. 923,006; May 25; Sp. p. 5984; Gaz. vol. 142; p. 1044.
- Boehm, L. (See Menchen, C., assignor.)
- Boehm, O., New York, N. Y. Sign. No. 919,310; Apr. 27; Sp. p. 5048; Gaz. vol. 141; p. 876.
- Boehm, O. A., New York, N. Y. Vacuum-insulated bottle. No. 924,138; June 8; Sp. p. 2253; Gaz. vol. 143; p. 373.
- Boehm, O. A., New York, N. Y. Bowl or tureen. No. 927,102; July 6; Sp. p. 849; Gaz. vol. 144; p. 136.
- Boehringer, J. A., Buffalo, N. Y. Zither-piano. No. 917,994; Apr. 13; Sp. p. 2110; Gaz. vol. 141; p. 379.
- Boehringer & Soehne, C. F. (See Ach and Sutter, assignors.)
- Boehringer Sohn, C. H. (See Einhorn, A., assignor.)
- Boehringer Sohn, C. H. (See Schmid, H., assignor.)
- Boelzner, E. (See Ritchie, H., assignor.)
- Boemmer, W. J., Rutherford, N. J., assignor of one-half to himself and one-half to H. A. Muecke, New York, N. Y. Electric fixture. No. 918,119; Apr. 13; Sp. p. 2358; Gaz. vol. 141; p. 422.
- Boeing, G., Trenton, N. J. Electromagnetic drill-support. No. 935,291; Sept. 28; Sp. p. 4655; Gaz. vol. 146; p. 827.
- Boening, E., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Friction-rope-drive elevator. No. 932,432; Aug. 31; Sp. p. 5917; Gaz. vol. 145; p. 1031.
- Boenker, H. H., and W. D. Schone, St. Charles, Mo. Pruning implement. No. 924,882; June 15; Sp. p. 3837; Gaz. vol. 143; p. 655.
- Boermel, E., Berlin-Grunewald, Germany. Elevated water-reservoir. No. 929,542; July 27; Sp. p. 5862; Gaz. vol. 144; p. 1030.
- Boermel, E., Berlin, Germany. Pipe connection and support. No. 930,034; Aug. 3; Sp. p. 864; Gaz. vol. 145; p. 139.
- Boerngen, M. E. (See Maurer, J., assignor.)
- Boersig, R., Denver, Colo. Smoke-consuming furnace. No. 916,910; Mar. 30; Sp. p. 6568; Gaz. vol. 140; p. 1171.
- Boeswinkle, B., Grand Rapids, Mich. Folding table. No. 920,253; May 4; Sp. p. 337; Gaz. vol. 142; p. 53.
- Boeters, O., and R. Wolfenstein, Berlin, Germany. Producing nitro compounds. No. 923,761; June 1; Sp. p. 1429; Gaz. vol. 143; p. 222.
- Boethelt, R. (See Scheer, J. C. C., assignor.)
- Boettcher, W., Chicago, Ill. Door-stop. No. 938,114; Oct. 26; Sp. p. 5250; Gaz. vol. 147; p. 901.

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- Boettger, T., Hackensack, and F. Vom Eyser, Rochelle Park, N. J.; said Vom Eyser assignor to said Boettger. Treatment of materials containing silk. No. 935,292; Sept. 28; Sp. p. 4657; Gaz. vol. 146; p. 827.
- Boettler, A., *et al.* (See Reiger, C., assignor.)
- Boettler, F. (See McGowan, M., assignor.)
- Bofird, L., New York, N. Y. Swinging sliding window-sash. No. 918,270; Apr. 13; Sp. p. 2664; Gaz. vol. 141; p. 472.
- Bogan, D. J., Ballardvale, Mass., assignor to Brown-Binnian Company. Machine for the formation of blanks. No. 938,115; Oct. 26; Sp. p. 5251; Gaz. vol. 147; p. 901.
- Bogart, A. J., Far Rockaway, N. Y. Closet-seat. No. 937,046; Oct. 19; Sp. p. 3007; Gaz. vol. 147; p. 528.
- Bogdanffy, A., New York, N. Y. Apparatus for cutting cork sheets. No. 920,010; Apr. 27; Sp. p. 6511; Gaz. vol. 141; p. 1111.
- Bogenberger, F., Milwaukee, Wis. Gravity sash-lock. No. 913,096; Feb. 23; Sp. p. 4273; Gaz. vol. 139; p. 774.
- Bogenberger, F., Milwaukee, Wis. Gravity sash-lock. No. 934,655; Sept. 21; Sp. p. 3392; Gaz. vol. 146; p. 591.
- Bogert, J. L., New York, N. Y. Crank-axle lathe. No. 920,420; May 4; Sp. p. 678; Gaz. vol. 142; p. 107.
- Bogert, J. L., Flushing, N. Y. Apparatus for grinding cylindrical surfaces. No. 921,353; May 11; Sp. p. 2597; Gaz. vol. 142; p. 447.
- Bogert, J. L., Flushing, N. Y. Internal-combustion heat-engine. No. 927,103; July 6; Sp. p. 850; Gaz. vol. 144; p. 136.
- Boggess, A. G., Sioux City, Iowa, assignor of one-half to H. H. Churchill, Rensselaer, Ind. Trap-door lift. No. 936,294; Oct. 12; Sp. p. 1422; Gaz. vol. 147; p. 247.
- Boggess, E. E. (See Long, J. A., assignor.)
- Boggiano, E., Rome, Italy. Automatic vote-registering machine. No. 943,378; Dec. 14; Sp. p. 2893; Gaz. vol. 149; p. 487.
- Boggs, G. W., Philadelphia, Pa. Composition of matter. No. 933,875; Sept. 14; Sp. p. 1866; Gaz. vol. 146; p. 308.
- Boggs, T. M., Monongahela, Pa. Boring, drilling, and tapping machine. No. 920,011; Apr. 27; Sp. p. 6515; Gaz. vol. 141; p. 1112.
- Boggs, W. S., Berkeley, assignor to Imperial Oil Company, San Francisco, Cal. Fishing-tool. No. 944,768; Dec. 28; Sp. p. 5906; Gaz. vol. 149; p. 1018.
- Bogni, G., Sesto Calende, Italy. Morse telegraphic apparatus. No. 932,105; Aug. 24; Sp. p. 5281; Gaz. vol. 145; p. 900.
- Bogue, L. L., East Orwell, Ohio. Cooling system. No. 938,814; Nov. 2; Sp. p. 783; Gaz. vol. 148; p. 126.
- Bogue, S. R. (See McClintock, C. D., assignor.)
- Bogushevsky, M., New York, N. Y. Adjustable pattern. No. 933,523; Sept. 7; Sp. p. 1163; Gaz. vol. 146; p. 168.
- Bohan, G. T., Maza, N. D. Safety filling device for tea-kettles. No. 933,052; Sept. 7; Sp. p. 20; Gaz. vol. 146; p. 5.
- Bohan, W. J., St. Paul, and D. D. Smith, Jr., Minneapolis, Minn. Voting-machine. No. 934,498; Sept. 21; Sp. p. 3078; Gaz. vol. 146; p. 537.
- Bohanan, J. D., Gloversville, N. Y. Sled. No. 913,193; Feb. 23; Sp. p. 4478; Gaz. vol. 139; p. 807.
- Bohannon, O. E., Kingman, Kans. Colander. No. 914,014; Mar. 2; Sp. p. 785; Gaz. vol. 140; p. 120.
- Bohanon, C. H., *et al.* (See Flora, E. E., assignor.)
- Bolin, P., Paris, France. Manufacture of metal castings. No. 930,828; Aug. 10; Sp. p. 2471; Gaz. vol. 145; p. 428.
- Bohl, E. L., Brooklyn, N. Y., assignor of one-half to R. Y. Barrows, Rutherford, N. J. Manufacture of molds for casting metals. No. 924,728; June 15; Sp. p. 3513; Gaz. vol. 143; p. 604.
- Böhme, C. (See Loesch and Böhme.)
- Böhmer, A., Magdeburg, Germany. Device for controlling electrically-driven stages, lifts, and the like. No. 916,259; Mar. 23; Sp. p. 5286; Gaz. vol. 140; p. 935.
- Bohn, W., Pittsburg, assignor of one-half to L. Karn, Pittsburg, Pa. Toy spinner. No. 922,842; May 25; Sp. p. 5659; Gaz. vol. 142; p. 992.
- Bohrer, W. (See Illmer and Kunze, assignors.)
- Bohrmann, E., *et al.* (See Spähr, E. J., assignor.)
- Bohy, A., Hocking, Iowa. Charger for blast-holes. No. 944,938; Dec. 28; Sp. p. 6257; Gaz. vol. 149; p. 1075.
- Bohyer, J., Bloomington, Ill. Saw-jointer. No. 938,957; Nov. 2; Sp. p. 1107; Gaz. vol. 148; p. 176.
- Boileau, H. (See Mayesky and Boileau.)
- Boisubin, A., Flatbush, N. Y. Tobacco-pipe. No. 908,940; Jan. 5; Sp. p. 1039; Gaz. vol. 138; p. 167.
- Bokop, H. D., Defiance, Ohio. Crate. No. 933,876; Sept. 14; Sp. p. 1867; Gaz. vol. 146; p. 308.
- Boland, F. P., Providence, R. I. Sand-blast machine. No. 914,105; Mar. 2; Sp. p. 968; Gaz. vol. 140; p. 152.
- Boland, F. P., Providence, R. I. Sand-blast machine. No. 914,783; Mar. 9; Sp. p. 2375; Gaz. vol. 140; p. 399.
- Boland, J., and W. A. Hinkle, Decatur, Ill. Feed for acetylene-gas generators. No. 928,022; July 13; Sp. p. 2733; Gaz. vol. 144; p. 466.
- Boland Machinery & Manufacturing Co. (See Mallon, J., assignor.)
- Boland, W. J., Chicago, Ill. Gas-compressor. No. 920,421; May 4; Sp. p. 682; Gaz. vol. 142; p. 107.
- Bolander, L. P., San Francisco, Cal. Feeder for furnaces. No. 931,258; Aug. 17; Sp. p. 3455; Gaz. vol. 145; p. 599.
- Bold, C. R., Charleston, S. C. Convertlet. No. 932,433; Aug. 31; Sp. p. 5921; Gaz. vol. 145; p. 1032.
- Boldman, C. F., Canton, N. C., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Strain-insulator. No. 935,409; Oct. 26; Sp. p. 5907; Gaz. vol. 147; p. 1002.
- Bolduan, F., and C. S. Dyas, Chicago, Ill.; said Dyas assignor to said Bolduan. Animal-poisoning product. No. 920,905; May 11; Sp. p. 1664; Gaz. vol. 142; p. 297.
- Bolduc, G. H., Detroit, Mich. Street-car fender. No. 912,530; Feb. 16; Sp. p. 3120; Gaz. vol. 139; p. 560.
- Bole, S. T., assignor to J. G. Brill Co., Philadelphia, Pa. Support for contact-plows. No. 923,484; June 1; Sp. p. 827; Gaz. vol. 143; p. 124.
- Boleg, A., Rorchach, Switzerland. Drying apparatus. No. 932,106; Aug. 24; Sp. p. 5282; Gaz. vol. 145; p. 900.
- Boles, E. A., assignor, by mesne assignments, of one-half to F. D. Brosier, Marion, Ind. Match-safe. No. 928,023; July 13; Sp. p. 2736; Gaz. vol. 144; p. 467.
- Boles, H. W., Port Washington, Wis. Chair-iron. No. 908,730; Jan. 5; Sp. p. 641; Gaz. vol. 138; p. 99.
- Boles, H. W., Port Washington, Wis. Chair-iron. No. 940,232; Nov. 16; Sp. p. 3949; Gaz. vol. 148; p. 672.
- Boles, H. W., Port Washington, Wis. Chair-iron. No. 942,432; Dec. 7; Sp. p. 827; Gaz. vol. 149; p. 136.
- Boles Friction Fastener Company. (See Boles, W. H., assignor.)
- Boles, W. H., assignor to Boles Friction Fastener Company, Newark, N. J. Tool for detaching carpet-fasteners. No. 939,207; Nov. 9; Sp. p. 1629; Gaz. vol. 148; p. 288.
- Boley, H. D., *et al.* (See Dickerson, A., assignor.)
- Boley, S. J. (See Bailey, L. E., assignor.)
- Bolin, R. H., Kane, Pa. Apparatus for glass manufacture. No. 920,107; May 4; Sp. p. 8; Gaz. vol. 142; p. 4.
- Bolin, R. H., Kane, Pa. Glass-tank furnace. No. 928,175; July 13; Sp. p. 3037; Gaz. vol. 144; p. 518.
- Boling, S. M., Chandler, Okla. Attachment for scale-beams. No. 924,960; June 15; Sp. p. 3994; Gaz. vol. 143; p. 682.
- Boling, S. M., Chandler, Okla. Attachment for scale-beams. No. 924,961; June 15; Sp. p. 3997; Gaz. vol. 143; p. 683.
- Boling, S. M., Chandler, Okla. Attachment for weighing-scales. No. 924,962; June 15; Sp. p. 4001; Gaz. vol. 143; p. 683.
- Bolitto, J. B., Rockbeare House, near Exeter, England. Aim-recording apparatus. No. 926,541; June 29; Sp. p. 7168; Gaz. vol. 143; p. 1266.
- Bolitto, J. H., Boone, Iowa. Turbine. No. 927,023; July 6; Sp. p. 662; Gaz. vol. 144; p. 108.
- Boljahn, E. F., New York, N. Y. Navigator's instrument. No. 918,947; Apr. 20; Sp. p. 4150; Gaz. vol. 141; p. 726.
- Boll, C. M., Merrill, Wis. Log-buoy. No. 919,531; Apr. 27; Sp. p. 5538; Gaz. vol. 141; p. 952.
- Boll, G. M., Mount Hope, Kans. Grain-bin. No. 933,617; Sept. 7; Sp. p. 1344; Gaz. vol. 146; p. 200.
- Boll, G. W., Mount Hope, Kans. Storage-bin. No. 932,243; Aug. 24; Sp. p. 5556; Gaz. vol. 145; p. 946.
- Bolland, A. T., Oak Park, and J. Gall and J. F. Dester, Chicago, Ill. Window-cleaning device. No. 914,106; Mar. 2; Sp. p. 969; Gaz. vol. 140; p. 152.
- Bolland, W. H., assignor of one-fourth to W. G. Morrell, Savannah, Ga. Portable grate. No. 927,214; July 6; Sp. p. 1063; Gaz. vol. 144; p. 172.
- Böllbach, E., New York, N. Y. Window-fastener. No. 919,311; Apr. 27; Sp. p. 5049; Gaz. vol. 141; p. 877.
- Böllbach, E., New York, and A. Waindloch, Brooklyn, N. Y. Vehicle-spring. No. 928,242; July 20; Sp. p. 3199; Gaz. vol. 144; p. 571.
- Bolles, W. B., Cleveland, Ohio. Molding-machine. No. 928,354; July 20; Sp. p. 3461; Gaz. vol. 144; p. 610.
- Bölling, F., Frankfurt-on-the-Main, Germany, assignor to Prometheus Electric Co., New York, N. Y. Apparatus for electric heating devices. No. 917,241; Apr. 6; Sp. p. 571; Gaz. vol. 141; p. 99.
- Bölling, F., Frankfurt-on-the-Main, Germany, assignor to Prometheus Electric Co., New York, N. Y. Electric cooking vessel. No. 920,906; May 11; Sp. p. 1665; Gaz. vol. 142; p. 297.
- Bolling, J. A., Fort Crook, Nebr. Automatic flood-gate. No. 930,829; Aug. 10; Sp. p. 2476; Gaz. vol. 145; p. 428.
- Bollinger, A., and A. and E. Landry, Geneva, Switzerland. Calculating-machine. No. 944,841; Dec. 28; Sp. p. 6063; Gaz. vol. 149; p. 1043.
- Bollinger, C. S., *et al.* (See Steelman, F., assignor.)
- Bollman, H. (See Anstead and Bollman.)
- Bolta & Weyer Company. (See Weyer, J. J., assignor.)
- Bolton, A. C., assignor to Gutta Percha & Rubber Manufacturing Company, New York, N. Y. Cutting-machine. No. 942,164; Dec. 7; Sp. p. 296; Gaz. vol. 149; p. 45.
- Bolton, A. J., Rochester, N. Y. Machine for flattening top-lifts. No. 937,983; Oct. 26; Sp. p. 4969; Gaz. vol. 147; p. 856.
- Bolton, E. G. (See App, Baker, and Bolton.)
- Bolton, G. W., Jr., Detroit, Mich. Conductor. No. 918,501; Apr. 20; Sp. p. 3142; Gaz. vol. 141; p. 576.



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- Bolton, H. D., assignor to Elliott-Fisher Company, New York, N. Y. Combined type-writing and calculating machine. No. 922,559; May 25; Sp. p. 5069; Gaz. vol. 142; p. 900.
- Bolton, J. R., New York, N. Y., assignor to A. G. Spalding & Bros., Jersey City, N. J. Golf practice-net. No. 920,907; May 11; Sp. p. 1667; Gaz. vol. 142; p. 297.
- Bolton, W. von, Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Berlin, Germany. Incandescent body for electric glow-lamps. No. 915,657; Mar. 16; Sp. p. 4143; Gaz. vol. 140; p. 715.
- Bolton, W. von, Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Berlin, Germany. Apparatus for producing homogeneous ductile bodies from metals of a highly-refractory nature. No. 925,798; June 22; Sp. p. 5693; Gaz. vol. 143; p. 986.
- Bolton, W. von, Charlottenburg, assignor to Siemens & Halske A. G., Berlin, Germany. Process-of hardening tantalum. No. 925,988; June 22; Sp. p. 6064; Gaz. vol. 143; p. 1048.
- Bolton, W. von, Charlottenburg, assignor to Siemens & Halske, A. G., Berlin, Germany. Manufacturing filaments for electric lamps. No. 927,935; July 13; Sp. p. 2578; Gaz. vol. 144; p. 439.
- Bolton, W. von, Charlottenburg, assignor to Siemens & Halske, A. G., Berlin, Germany. Pen. No. 930,930; Aug. 10; Sp. p. 2694; Gaz. vol. 145; p. 461.
- Bolton, W. von, Charlottenburg, assignor to Siemens & Halske, A. G., Berlin, Germany. Pen. No. 930,931; Aug. 10; Sp. p. 2696; Gaz. vol. 145; p. 461.
- Bolton, W. von, Charlottenburg, assignor to Siemens & Halske, A. G., Berlin, Germany. Pen. No. 930,932; Aug. 10; Sp. p. 2697; Gaz. vol. 145; p. 461.
- Bolton, W. von, Charlottenburg, assignor to Siemens & Halske, A. G., Berlin, Germany. Making filaments for electric incandescent lamps. No. 936,403; Oct. 12; Sp. p. 1675; Gaz. vol. 147; p. 284.
- Bolton, W. von, Charlottenburg, and F. Hartmann, assignors to Siemens & Halske A. G., Berlin, Germany. Forming electric-incandescent lamp filaments. No. 930,723; Aug. 10; Sp. p. 2259; Gaz. vol. 145; p. 393.
- Bomborn, B. (See Harder, C. C., assignor.)
- Bomborn, B., and A. Hoffmann, Berlin, Germany; said Hoffmann assignor to said Bomborn. Self-centering chuck. No. 942,304; Dec. 7; Sp. p. 585; Gaz. vol. 149; p. 93.
- Bömcke, R., Dortmund, Germany. Metallic stuffing-box packing. No. 909,983; Jan. 19; Sp. p. 3123; Gaz. vol. 138; p. 579.
- Böminghaus, F. (See Lauber and Böminghaus.)
- Böminghaus, F., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fluid-brake. No. 927,936; July 13; Sp. p. 2579; Gaz. vol. 144; p. 439.
- Böminghaus, F., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Recoil-gun with a fluid brake. No. 532,107; Aug. 24; Sp. p. 5283; Gaz. vol. 145; p. 900.
- Bommer, E., New York, N. Y. Spring-hinge attachment for lavatory-doors. No. 916,662; Mar. 30; Sp. p. 6102; Gaz. vol. 140; p. 1093.
- Bommer, E., New York, N. Y. Spring-hinge. No. 924,422; June 8; Sp. p. 2870; Gaz. vol. 143; p. 469.
- Bommer, E., New York, N. Y. Double-acting spring-hinge. No. 941,185; Nov. 23; Sp. p. 6058; Gaz. vol. 148; p. 1016.
- Bommer, E., New York, N. Y. Double-acting spring-hinge. No. 943,807; Dec. 21; Sp. p. 3821; Gaz. vol. 149; p. 664.
- Bommer, E., New York, N. Y. Door-strike. No. 944,310; Dec. 28; Sp. p. 4885; Gaz. vol. 149; p. 860.
- Bonbright, H., New Haven, Conn. Electric speedometer and odometer. No. 910,898; Jan. 26; Sp. p. 5037; Gaz. vol. 138; p. 907.
- Bond, A. E. (See Kotrba and Freese, assignors.)
- Bond, A. E., Coshocton, Ohio. Window-scaffold. No. 933,740; Sept. 14; Sp. p. 1607; Gaz. vol. 146; p. 264.
- Bond, E. H. (See Duryea, C. E., assignor.)
- Bond, L., Evanston, Ill. Wall-plate for electric fixtures. No. 914,107; Mar. 2; Sp. p. 972; Gaz. vol. 140; p. 153.
- Bond, L. M., Forest Hill, N. J. Combined shoulder-brace and garment-supporter. No. 924,034; June 8; Sp. p. 2043; Gaz. vol. 143; p. 339.
- Bond, J. I., Taylors Store, Va. Lamp-lighter. No. 914,631; Mar. 9; Sp. p. 2048; Gaz. vol. 140; p. 349.
- Bond, J. J. (See Senter, J. F., assignor.)
- Bond, J. T., Palatka, Fla. Insulator. No. 927,321; July 6; Sp. p. 1255; Gaz. vol. 144; p. 207.
- Bond, M. L., assignor of one-half to Neal Tent & Awning Co., Minneapolis, Minn. Awning. No. 931,259; Aug. 17; Sp. p. 3457; Gaz. vol. 145; p. 600.
- Bond, O. S., Toledo, Ohio. Lavatory. No. 929,820; Aug. 3; Sp. p. 411; Gaz. vol. 145; p. 68.
- Bond, R. T., Coalgate, Okla. Bench-clip. No. 938,457; Nov. 2; Sp. p. 8; Gaz. vol. 148; p. 4.
- Bond, W., and J. Baxendale, Bolton, England. Picking-stick for underpick-loom. No. 920,528; May 4; Sp. p. 877; Gaz. vol. 142; p. 142.
- Bond, W. T., Belleville, Kans. Feeder for straw-cutting machines. No. 944,172; Dec. 21; Sp. p. 4895; Gaz. vol. 149; p. 788.
- Bonds, E. K. (See Schmidt, A., assignor.)
- Bonfield, A. R., Jr., Brooklyn, N. Y. Compression cock or bib. No. 925,679; June 22; Sp. p. 5401; Gaz. vol. 143; p. 949.
- Bonfield, E. W., and J. E. Fellows, Chicago, Ill. Cardboard-creasing machine. No. 944,536; Dec. 28; Sp. p. 5402; Gaz. vol. 149; p. 940.
- Bong, C. H., Chicago, Ill. Pressure-regulator. No. 944,255; Dec. 28; Sp. p. 4753; Gaz. vol. 149; p. 841.
- Bongardt, E., Biebrich, Germany. Machine for forming hollow articles. No. 915,331; Mar. 16; Sp. p. 3457; Gaz. vol. 140; p. 603.
- Bonham, W. R., Chicago, Ill. Calculating-machine. No. 908,731; Jan. 5; Sp. p. 643; Gaz. vol. 138; p. 100.
- Bonin, A. O., and H. Mason; said Bonin assignor to L. P. Parenteau, Holyoke, Mass. Fly-paper holder. No. 915,822; Mar. 23; Sp. p. 4477; Gaz. vol. 140; p. 704.
- Bonini, P., New York, N. Y. Automatic fire-alarm. No. 931,377; Aug. 17; Sp. p. 3720; Gaz. vol. 145; p. 642.
- Bonini, S., Ridgway, Pa. Shipping-package holder. No. 914,632; Mar. 9; Sp. p. 2050; Gaz. vol. 140; p. 349.
- Boninie, F. F., Monessen, Pa. Tin-transferring machine. No. 930,138; Aug. 3; Sp. p. 1091; Gaz. vol. 145; p. 176.
- Bonna, A. J., Paris, France. Steel pipe with a double-armored concrete coating. No. 921,354; May 11; Sp. p. 2601; Gaz. vol. 142; p. 448.
- Bonnaaz, A., Lyon, France. Elastic tire. No. 942,881; Dec. 14; Sp. p. 1803; Gaz. vol. 149; p. 319.
- Bonneau, E., Brest, France. Transmission mechanism. No. 942,882; Dec. 14; Sp. p. 1804; Gaz. vol. 149; p. 319.
- Bonneck, G., *et al.* (See Hasel, R., assignor.)
- Bonnell, G. W., Lincoln, Nebr. Vault. No. 919,686; Apr. 27; Sp. p. 5854; Gaz. vol. 141; p. 1005.
- Bonnell, H. W. (See Bonnell, W. A., assignor.)
- Bonnell, W. A., Brooklyn, N. Y. Insulating appliance. No. 929,543; July 27; Sp. p. 5363; Gaz. vol. 144; p. 1030.
- Bonnell, W. A., New York, assignor to H. W. Bonnell, Brooklyn, N. Y. Outlet-box for electric conduits. No. 921,584; May 11; Sp. p. 3040; Gaz. vol. 142; p. 522.
- Bonnell, W. A., New York, assignor to H. W. Bonnell, Brooklyn, N. Y. Combined conduit-clamp and knock-out disk. No. 921,585; May 11; Sp. p. 3043; Gaz. vol. 142; p. 523.
- Bonner, C. D., Brooklyn, N. Y. Door-mat. No. 925,219; June 15; Sp. p. 4612; Gaz. vol. 143; p. 788.
- Bonner, C. E., assignor to C. E. Bonner Manufacturing Company, Chrisman, Ill. Combination-tool. No. 929,821; Aug. 3; Sp. p. 412; Gaz. vol. 145; p. 68.
- Bonner, C. E., assignor to C. E. Bonner Manufacturing Company, Chrisman, Ill. Chain wrench. No. 937,917; Oct. 26; Sp. p. 4832; Gaz. vol. 147; p. 835.
- Bonner, S. W., *et al.* (See Lesan, S. A., assignor.)
- Bonner, W. T., Washington, N. C. Friction member. No. 931,988; Aug. 24; Sp. p. 5025; Gaz. vol. 145; p. 861.
- Bonnet, D., McLeod, Okla. Cultivator attachment. No. 944,939; Dec. 28; Sp. p. 6258; Gaz. vol. 149; p. 1075.
- Bonnavie, R., Rive-de-Gier, France. Compensating elastic suspension device for vehicles. No. 910,491; Jan. 26; Sp. p. 4225; Gaz. vol. 138; p. 777.
- Bonney, B. R., assignor to M. Sweeney, Lincoln, Nebr., and S. K. Sweeney. Stock-salting device. No. 925,619; June 22; Sp. p. 5277; Gaz. vol. 143; p. 928.
- Bonney, C. A., St. Louis, Mo. Trimming attachment for stitching-machines. No. 929,653; Aug. 3; Sp. p. 14; Gaz. vol. 145; p. 5.
- Bonney, W. L., Batavia, N. Y. Celery-cultivator. No. 908,645; Jan. 5; Sp. p. 463; Gaz. vol. 138; p. 73.
- Bonnot, C. F. (See Dorn, Ludlam, and Bonnot.)
- Bonnot, C. F. (See Ludlam and Bonnot.)
- Bonnot Company. (See Dorn, Ludlam, and Bonnot, assignors.)
- Bonnot, L. C. (See Dorn, Ludlam, and Bonnot.)
- Bonom, A., New York, N. Y. Steam-turbine. No. 924,309; June 8; Sp. p. 2656; Gaz. vol. 143; p. 432.
- Bonsall, S. W., New York, N. Y. Coat-hanger. No. 920,894; May 4; Sp. p. 1640; Gaz. vol. 142; p. 262.
- Bonsall, S. W., New York, N. Y. Trunk. No. 923,807; June 8; Sp. p. 1616; Gaz. vol. 143; p. 267.
- Bonsall, S. W., New York, N. Y. Trunk. No. 930,343; Aug. 10; Sp. p. 1452; Gaz. vol. 145; p. 266.
- Bonsall, S. W., New York, N. Y. Composite building material. No. 944,592; Dec. 28; Sp. p. 5536; Gaz. vol. 149; p. 960.
- Bonsall, S. W., New York, N. Y. Convertible trunk and wardrobe. No. 944,593; Dec. 28; Sp. p. 5538; Gaz. vol. 149; p. 960.
- Bonson, W. W., Dubuque, Iowa, and H. L. Clarke, Chicago, Ill. Match-starter for explosive-engines. No. 931,726; Aug. 24; Sp. p. 4455; Gaz. vol. 145; p. 776.
- Bonson, W. W., and W. L. McLaughlin, Dubuque, Iowa, assignors to Highspeed Dry Concentrating Company, Phoenix, Ariz. Dry-ore-separating machine. No. 933,053; Sept. 7; Sp. p. 21; Gaz. vol. 146; p. 6.

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- Bonstedt, C. W. (See Gostier and Mueller, assignors.)
- Bonvillain, P., and E. Ronceray, Paris, France, assignors, by mesne assignments, to E. H. Mumford Company, Philadelphia, Pa. Making pattern and stripping plates. No. 910,166; Jan. 19; Sp. p. 3488; Gaz. vol. 138; p. 638.
- Bonvillain, P., and E. Ronceray, Paris, France, assignor, by mesne assignments, to E. H. Mumford Company, Philadelphia, Pa. Molding-machine. No. 910,167; Jan. 19; Sp. p. 3490; Gaz. vol. 138; p. 638.
- Bonzano, M. F., New York, N. Y. Rail-fastening. No. 922,843; May 25; Sp. p. 5660; Gaz. vol. 142; p. 992.
- Bonzano, M. F., Philadelphia, Pa. Means for securing splice-bars to ties. No. 923,007; May 25; Sp. p. 5985; Gaz. vol. 142; p. 1044.
- Bonzano, M. F., Philadelphia, Pa. Rail-fastening. No. 923,008; May 25; Sp. p. 5987; Gaz. vol. 142; p. 1045.
- Bonzano, M. F., Philadelphia, Pa. Rail-fastening. No. 923,009; May 25; Sp. p. 5989; Gaz. vol. 142; p. 1045.
- Bonzano, M. F., Philadelphia, Pa., assignor to Penn Railroad Tie Company, Camden, N. J. Metallic tie. No. 940,500; Nov. 16; Sp. p. 4572; Gaz. vol. 148; p. 763.
- Bonzano, M. F., Philadelphia, Pa., assignor to Penn Railroad Tie Company, Camden, N. J. Brace for rail-supporting means of metallic ties. No. 940,579; Nov. 16; Sp. p. 4742; Gaz. vol. 148; p. 789.
- Boode, H. S., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Lantern-frame. No. 911,369; Feb. 2; Sp. p. 677; Gaz. vol. 139 p. 116.
- Book Match Sales Company. (See Fritsche, J., assignor.)
- Booker, H. (See Philia and Booker.)
- Boomer, C. P., Muncie, Ind. Spring running-gear for automobiles. No. 943,764; Dec. 21; Sp. p. 3731; Gaz. vol. 149; p. 649.
- Boon, G. W., Kerens, W. Va. Railway-switch. No. 910,352; Jan. 19; Sp. p. 3928; Gaz. vol. 138; p. 706.
- Boone, G. W., Pullman, Wash. Glove. No. 920,012; Apr. 27; Sp. p. 6517; Gaz. vol. 141; p. 1112.
- Booraem, J. F., Greenwich, Conn. Combined life-rail and gutter. No. 923,010; May 25; Sp. p. 5994; Gaz. vol. 142; p. 1045.
- Boore, H. H., Los Angeles, Cal. Carbureter. No. 930,724; Aug. 10; Sp. p. 2260; Gaz. vol. 145; p. 393.
- Booser, E. A., Altoona, Pa. Car-wheel. No. 922,844; May 25; Sp. p. 5664; Gaz. vol. 142; p. 992.
- Booth, C. F., Canandaigua, N. Y. Adjustable support for aseptic trays. No. 931,378; Aug. 17; Sp. p. 3723; Gaz. vol. 145; p. 642.
- Booth, F. (See Richardson, Booth, and Meredith.)
- Booth, F. T., Des Moines, Iowa. Oven for furnaces. No. 932,953; Aug. 31; Sp. p. 7002; Gaz. vol. 145; p. 1203.
- Booth, G. M. (See Hillyard and Booth.)
- Booth, H. D., assignor to Midvale Steel Company, Philadelphia, Pa. Steel. No. 914,633; Mar. 9; Sp. p. 2051; Gaz. vol. 140; p. 349.
- Booth, J. H., *et al.* (See Leadbeater, J. W., assignor.)
- Booth, J. N. (See Dryden, W., assignor.)
- Booth, J. S., *et al.* (See Leadbeater, J. W., assignor.)
- Booth, J. W. (See Rockliff and Booth.)
- Booth, K., assignor to Gillinder and Sons, Inc., Philadelphia, Pa. Fish-bowl. No. 925,861; June 22; Sp. p. 5821; Gaz. vol. 143; p. 1008.
- Booth, K., assignor to Gillinder and Sons, Inc., Philadelphia, Pa. Reflector for artificial light. No. 925,862; June 22; Sp. p. 5822; Gaz. vol. 143; p. 1008.
- Booth, L. M. (See Sutro and Booth.)
- Booth, L. M., Plainfield, N. J. Apparatus for starting explosive-engines. No. 909,140; Jan. 12; Sp. p. 1472; Gaz. vol. 138; p. 267.
- Booth, R. H., Monmouth, Ill. Oil-can. No. 933,877; Sept. 14; Sp. p. 1868; Gaz. vol. 146; p. 308.
- Booth, T., Boise, Idaho. Bit-wrench. No. 925,745; June 22; Sp. p. 5552; Gaz. vol. 143; p. 968.
- Booth, T., Boise, Idaho. Animal-trap. No. 925,746; June 22; Sp. p. 5553; Gaz. vol. 143; p. 968.
- Booth, W. H., Santa Cruz, Cal. Drain-tile. No. 914,231; Mar. 2; Sp. p. 1234; Gaz. vol. 140; p. 192.
- Boothe, G. P. (See Smith and Boothe.)
- Booz, E. D., Baltimore, Md. Safety gas-cock. No. 917,408; Apr. 6; Sp. p. 907; Gaz. vol. 141; p. 157.
- Booz, W. C., Vanburen, Ind. Portable derrick. (Reissue.) No. 12,915; Feb. 9; Sp. p. 2545; Gaz. vol. 139; p. 437.
- Bopp, A., New York, N. Y. Receptacle. No. 916,986; Apr. 6; Sp. p. 42; Gaz. vol. 141; p. 12.
- Bopp, C., Charleston, S. C. Adjustable caster. No. 922,381; May 18; Sp. p. 4680; Gaz. vol. 142; p. 812.
- Bopp, W. C., Arcadia, Mo. Rail connection. No. 940,954; Nov. 23; Sp. p. 5550; Gaz. vol. 148; p. 939.
- Borchardt, H., Berlin, Germany. Breech mechanism for small-arms. No. 918,951; Apr. 20; Sp. p. 4160; Gaz. vol. 141; p. 727.
- Borchardt, H., Berlin-Charlottenburg, Germany. Ball-bearing. No. 927,937; July 13; Sp. p. 2581; Gaz. vol. 144; p. 440.
- Borchardt, S., New York, N. Y. Combined shoe and sandal. No. 910,778; Jan. 26; Sp. p. 4811; Gaz. vol. 138; p. 870.
- Borchers, W., Aix-la-Chapelle, Germany. Treating titaniferous iron ores. No. 930,344; Aug. 10; Sp. p. 1455; Gaz. vol. 145; p. 266.
- Borchert, R. W., St. Louis, Mo. Switch. No. 909,742; Jan. 12; Sp. p. 2644; Gaz. vol. 138; p. 467.
- Bordas, J., Dunkirk, N. Y. Self-heating sad-iron. No. 944,842; Dec. 28; Sp. p. 6071; Gaz. vol. 149; p. 1044.
- Bordas, M. E., Dunkirk, N. Y. Comb. No. 943,765; Dec. 21; Sp. p. 3732; Gaz. vol. 149; p. 650.
- Bordeaux, J. H., Joliet, Ill. Moistener. No. 944,769; Dec. 28; Sp. p. 5908; Gaz. vol. 149; p. 1019.
- Borden, B., assignor to Borden Company, Warren, Ohio. Thread-cutting tool. No. 924,221; June 8; Sp. p. 2475; Gaz. vol. 143; p. 402.
- Borden, B., assignor to Borden Company, Warren, Ohio. Pipe-threading tool. No. 924,963; June 15; Sp. p. 4003; Gaz. vol. 143; p. 684.
- Borden, C. H., assignor of one-half to E. T. Smith, Hartford, Conn. Speculum. No. 922,845; May 25; Sp. p. 5665; Gaz. vol. 142; p. 993.
- Borden Company. (See Borden, B., assignor.)
- Borden Company. (See Nonneman, I. W., assignor.)
- Borden, M. M., Collingswood, assignor to Simplex Valve & Meter Company, Camden, N. J. Loss-of-head and rate-of-flow gage. No. 926,721; July 6; Sp. p. 2; Gaz. vol. 144; p. 3.
- Borden, O. A., St. Louis, Mo. Stopper. No. 941,302; Nov. 23; Sp. p. 6304; Gaz. vol. 148; p. 1054.
- Borden, O. A., St. Louis, Mo. Container. No. 941,303; Nov. 23; Sp. p. 6305; Gaz. vol. 148; p. 1054.
- Bordenkircher, J. E., Cuyahoga Falls, assignor of one-half to J. Hartz, Akron, Ohio. Sheave or pulley. No. 936,213; Oct. 5; Sp. p. 1271; Gaz. vol. 147; p. 193.
- Border, A. J., assignor of one-half to L. M. Coventry, Wellington, New Zealand. Indicator. No. 941,354; Nov. 30; Sp. p. 6412; Gaz. vol. 148; p. 1093.
- Borer, A. (See Barrett, J. M., assignor.)
- Borer, F. J., Westfield, N. J. Signal-cord hanger. No. 930,139; Aug. 3; Sp. p. 1092; Gaz. vol. 145; p. 176.
- Borg, C., Chicago, Ill. Indexing device for wheel-machines. No. 921,071; May 11; Sp. p. 1998; Gaz. vol. 142; p. 352.
- Borg, C. W., Rock Island, Ill. Tongue-shaping machine. No. 909,530; Jan. 12; Sp. p. 2216; Gaz. vol. 138; p. 394.
- Borgeson, C. B., Butler, Pa. Heddle-making machine. No. 923,011; May 25; Sp. p. 5996; Gaz. vol. 142; p. 1046.
- Borgmeyer, F. C., St. Charles, Mo. Window-sash. No. 918,271; Apr. 13; Sp. p. 2666; Gaz. vol. 141; p. 472.
- Borgström, A. H., Hangö, Russia. Apparatus for the continuous manufacture of butter. No. 938,815; Nov. 2; Sp. p. 785; Gaz. vol. 148; p. 126.
- Borgzinner, A., New Rochelle, N. Y. Display-stand. No. 937,671; Oct. 19; Sp. p. 4304; Gaz. vol. 147; p. 734.
- Borindum Extraction Company. (See Luckenbach, R., assignor.)
- Boring, V. H., Sumner, Mo. Draft-equalizer. No. 923,619; June 1; Sp. p. 1137; Gaz. vol. 143; p. 174.
- Borland, B., Chicago, Ill. Lock. No. 940,300; Nov. 16; Sp. p. 4111; Gaz. vol. 148; p. 695.
- Borland, C. R., Concord, assignor to American Powder Mills, Boston, Mass. Sound-recorder. No. 911,937; Feb. 9; Sp. p. 1782; Gaz. vol. 139; p. 328.
- Borland, F. D., and P. G. Haney, McKeesport, Pa. Composition of matter. No. 926,463; June 29; Sp. p. 7036; Gaz. vol. 143; p. 1240.
- Borland, J. A., and L. Benack, Mina, Nev. Horse-detacher. No. 928,843; July 20; Sp. p. 4424; Gaz. vol. 144; p. 771.
- Born, F. W., Charlottenburg, Germany. Interior arrangement for smoke-boxes of tubular boilers. No. 931,727; Aug. 24; Sp. p. 4457; Gaz. vol. 145; p. 776.
- Born, W. G., Chicago, Ill., assignor to F. Bade, London, England. Apparatus for injecting chemicals into logs. No. 935,888; Oct. 5; Sp. p. 619; Gaz. vol. 147; p. 89.
- Bornholdt, C., Avoca, Iowa. Hay rake and loader. No. 924,035; June 8; Sp. p. 2044; Gaz. vol. 143; p. 340.
- Borman, H. L., assignor to E. C. Atkins & Company, Indianapolis, Ind. Bucksaw. No. 934,499; Sept. 21; Sp. p. 3083; Gaz. vol. 146; p. 537.
- Bornot, A. F. (See Husson, L., assignor.)
- Bornside, H. B. (See Fried and Harvey, assignors.)
- Borrowdale, J. M., and J. Strain, Chicago, Ill. Refrigerator-car. No. 938,958; Nov. 2; Sp. p. 1108; Gaz. vol. 148; p. 177.
- Borsch, H. J., Philadelphia, Pa. Pocket screw-driver. No. 933,878; Sept. 14; Sp. p. 1869; Gaz. vol. 146; p. 308.
- Borsum, L., Plainfield, N. J. Photographic camera. No. 914,784; Mar. 9; Sp. p. 2376; Gaz. vol. 140; p. 399.
- Borsum, L., Plainfield, N. J. Photographic-plate holder. No. 916,911; Mar. 30; Sp. p. 6570; Gaz. vol. 140; p. 1171.
- Borth, J., Herreid, S. D. Match-safe. No. 927,024; July 6; Sp. p. 668; Gaz. vol. 144; p. 108.
- Borth, L., Herreid, S. D. Fence structure. No. 916,834; Mar. 30; Sp. p. 6407; Gaz. vol. 140; p. 1146.
- Bosch, C., and A. Mittasch, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Production of cyanides and cyanamids. No. 923,012; May 25; Sp. p. 5604; Gaz. vol. 142; p. 1046.
- Bosch, H. (See Hach and Bosch.)



*Alphabetical list of patentees—Continued.*

- Bosch, K., assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Saponification of alkaline-earth cyanids. No. 911,468; Feb. 2; Sp. p. 841; Gaz. vol. 139; p. 148.
- Bosley, E. M., St. Louis, Mo. Sectional boiler. No. 930,140; Aug. 3; Sp. p. 1093; Gaz. vol. 145; p. 177.
- Bosnyakovits, J., Cleveland, Ohio. Lamp-bracket. No. 929,381; July 27; Sp. p. 5534; Gaz. vol. 144; p. 979.
- Boss, M. P., San Francisco, Cal. Stamp-mortar. No. 939,208; Nov. 9; Sp. p. 1631; Gaz. vol. 148; p. 288.
- Bossard, T., assignor to Standard Development Company, Salt Lake City, Utah. Clutch mechanism. No. 910,353; Jan. 19; Sp. p. 3930; Gaz. vol. 138; p. 707.
- Bosse, C., Waipahu, Hawaii. Cane-unloader. No. 943,591; Dec. 14; Sp. p. 3323; Gaz. vol. 149; p. 560.
- Bosse, E., Salem, Oreg. Machine for treating flax and other fiber-yielding plants. No. 919,532; Apr. 27; Sp. p. 5539; Gaz. vol. 141; p. 952.
- Bossert, W. F., Utica, N. Y. Drilling apparatus. No. 929,822; Aug. 3; Sp. p. 413; Gaz. vol. 145; p. 68.
- Bossi, J. A., Wyalusing, Wis. Mail delivering and receiving device. No. 939,793; Nov. 9; Sp. p. 2976; Gaz. vol. 148; p. 489.
- Bossieux, J. M., *et al.* (See Cosby, J. E., assignor.)
- Bostelman, G. (See Hoops, H. G., assignor.)
- Bostian, H. C., assignor of one-third to B. B. Cannon and one-third to J. E. and P. G. Hastings, Milton, Pa. Expansion-coupling for hose. No. 941,355; Nov. 30; Sp. p. 6416; Gaz. vol. 148; p. 1094.
- Bostock, W. F., Brockton, Mass. Liquid-feeding device. No. 912,794; Feb. 16; Sp. p. 3707; Gaz. vol. 139; p. 652.
- Boston Auto Gage Company. (See Martin, M., assignor.)
- Boston Electric Company. (See Perkins, A. J., assignor.)
- Boston Incandescent Lamp Company. (See Merritt, M. M., assignor.)
- Boston Machine Works Company. (See Slocum, B. A., assignor.)
- Boston Tool Company. (See Alford, L. P., assignor.)
- Bostrom, E. A., Atlanta, Ga. Leveling instrument. No. 912,065; Feb. 9; Sp. p. 2143; Gaz. vol. 139; p. 370.
- Bostrom, J. M. (See Hermann and Bostrom.)
- Bostwick, J. B., Rahway, N. J. Switching device. No. 921,945; May 18; Sp. p. 3807; Gaz. vol. 142; p. 670.
- Bostwick, W. A., Rochester, N. Y. Cover-fastening for jars. No. 911,289; Feb. 2; Sp. p. 530; Gaz. vol. 139; p. 90.
- Boswell, E. T., Siloam, Ga. Fence-machine. No. 933,054; Sept. 7; Sp. p. 27; Gaz. vol. 146; p. 6.
- Boswell, J. G. (See Klineman, F. W., assignor.)
- Boswell, T., Sheffield, England. File and similar abrading-tool. No. 934,882; Sept. 21; Sp. p. 3831; Gaz. vol. 146; p. 665.
- Boswell, W. C., Rossville, Ga., assignor of one-half to B. F. Fritts, Chattanooga, Tenn. Hinge. No. 908,941; Jan. 5; Sp. p. 1039; Gaz. vol. 138; p. 167.
- Bosworth, A. H., Fall River Mills, Cal. Hay-pitcher. No. 943,963; Dec. 21; Sp. p. 4149; Gaz. vol. 149; p. 719.
- Bosworth, B. B., New York, N. Y. Suspended clothes-rack. No. 941,909; Nov. 30; Sp. p. 7610; Gaz. vol. 148; p. 1281.
- Bosworth, C., assignor of one-hundred-and-fifteen two-hundredths to G. F. Damon, Providence, R. I. Measuring attachment for micrometer-calipers. No. 925,280; June 15; Sp. p. 4613; Gaz. vol. 143; p. 788.
- Bosworth, P. H., San Francisco, Cal. Concrete wall. No. 927,215; July 6; Sp. p. 1064; Gaz. vol. 144; p. 172.
- Bosworth, P. H., San Francisco, Cal. Forming concrete buildings. No. 944,594; Dec. 28; Sp. p. 5540; Gaz. vol. 149; p. 961.
- Bosworth, W. P., assignor to Brockton Heel Company, Brockton, Mass. Machine for assembling heel-lift sections. No. 923,485; June 1; Sp. p. 828; Gaz. vol. 143; p. 125.
- Bosworth, W. P., assignor to Brockton Heel Company, Brockton, Mass. Making boot and shoe heels. No. 936,295; Oct. 12; Sp. p. 1424; Gaz. vol. 147; p. 248.
- Bosworth, W. P., assignor to Brockton Heel Company, Brockton, Mass. Machine for making heel-logs. No. 936,858; Oct. 12; Sp. p. 2621; Gaz. vol. 147; p. 437.
- Bothwell, F. A., East Genoa, N. Y. Baling-press. No. 939,466; Nov. 9; Sp. p. 2268; Gaz. vol. 148; p. 376.
- Bothwell, H. R. (See Newman and Bothwell.)
- Bott, G. R., and K. Langnickel, Indianapolis, Ind. Internal-combustion engine. No. 920,816; May 4; Sp. p. 1464; Gaz. vol. 142; p. 237.
- Bott, J. D. G., Fostoria, Tex. Tooth-bender. No. 919,153; Apr. 20; Sp. p. 4525; Gaz. vol. 141; p. 791.
- Böttcher, K. (See Bode and Böttcher.)
- Böttcher, K., Berlin, Germany. Weighing-machine. No. 928,491; July 20; Sp. p. 3722; Gaz. vol. 144; p. 655.
- Botten, N. L., Opelousas, La. Saw leveling and stretching machine. No. 913,463; Feb. 23; Sp. p. 5026; Gaz. vol. 139; p. 898.
- Bottle, E. K., Niagara Falls, N. Y., assignor to Carter-Crume Company, Limited, Toronto, Canada. Sales-book. No. 911,865; Feb. 9; Sp. p. 1636; Gaz. vol. 139; p. 304.
- Bottle, E. K., assignor to Carter-Crume Company, Limited, Niagara Falls, N. Y. Manifolding-pad. No. 928,625; July 20; Sp. p. 3999; Gaz. vol. 144; p. 698.
- Bottle, E. K., assignor to Carter-Crume Company, Limited, Niagara Falls, N. Y. Duplicate sales-book. No. 935,774; Oct. 5; Sp. p. 338; Gaz. vol. 147; p. 52.
- Bottle, E. K., assignor to Carter-Crume Co., Limited, Niagara Falls, N. Y. Manifolding-pad. No. 936,697; Oct. 12; Sp. p. 2313; Gaz. vol. 147; p. 384.
- Bottlers Machinery Manufacturing Company. (See Bastian, C. L., assignor.)
- Bottlers Machinery Manufacturing Company. (See Strasburger, F. C. H., assignor.)
- Bottoff, A. E., *et al.* (See Washington, D. E., assignor.)
- Botts, M. S. (See Durnell, C. M., assignor.)
- Bouchaud-Praceig, E., Paris, France. Device for detecting decomposition of explosives. No. 934,500; Sept. 21; Sp. p. 3084; Gaz. vol. 146; p. 538.
- Boucher, A. L., New York, N. Y. Cigarette-tipping machine. No. 933,359; Sept. 7; Sp. p. 733; Gaz. vol. 146; p. 115.
- Boucher, J. T. (See McLarty, W. B., assignor.)
- Boucher, L., assignor to Mitchell, Lewis & Staver Co., Portland, Oreg. Wheel-brake for dump-wagons. No. 927,322; July 6; Sp. p. 1256; Gaz. vol. 144; p. 207.
- Boucher Manufacturing Company. (See Straus, H., assignor.)
- Bouchet, M., Paris, France. Transmission mechanism. No. 914,108; Mar. 2; Sp. p. 974; Gaz. vol. 140; p. 153.
- Boughan, A. B., Chicago, Ill. Automobile-tire protector. No. 923,322; June 1; Sp. p. 495; Gaz. vol. 143; p. 71.
- Boulard, C., Worcester, Mass. Receiptacle for checks. No. 931,260; Aug. 17; Sp. p. 3460; Gaz. vol. 145; p. 600.
- Bouldin, J. R., Channing, Tex. Draft-equalizer. No. 926,542; June 29; Sp. p. 7171; Gaz. vol. 143; p. 1267.
- Boulicault, J. B. and P. L., St. Louis, Mo. Pump. No. 919,416; Apr. 27; Sp. p. 5274; Gaz. vol. 141; p. 913.
- Boulicault, P. L. (See Boulicault, J. B. and P. L.)
- Boulton, A. E., assignor of one-half to J. W. Rochevot, Buffalo, N. Y. Package-fastener. No. 935,889; Oct. 5; Sp. p. 622; Gaz. vol. 147; p. 90.
- Boulton, C. W., assignor of one-half to J. F. Shields, Waltham, Mass. Curtain-rod leader. No. 940,668; Nov. 23; Sp. p. 4932; Gaz. vol. 148; p. 843.
- Bounds, R. E. (See McManus, Reed, and Bounds.)
- Bouneau, J., Paris, France. Electric furnace. No. 926,236; June 29; Sp. p. 6620; Gaz. vol. 143; p. 1167.
- Bourdill, F. F., Paris, France. Automatic safety device. No. 930,141; Aug. 3; Sp. p. 1096; Gaz. vol. 145; p. 177.
- Bourgeois, A. (See Hawkins and Bourgeois.)
- Bourgeois, M. A., Lizy-sur-Ourcq, France. Apparatus for pressing parts of large dimensions from metal plates. No. 938,816; Nov. 2; Sp. p. 787; Gaz. vol. 148; p. 126.
- Bourgo, M. C. (See Noethig and Bourgo.)
- Bourland, J. M., Beaumont, Tex. Root-crop harvester. No. 914,232; Mar. 2; Sp. p. 1235; Gaz. vol. 140; p. 193.
- Bourne, B., Philadelphia, Pa. Securing device for track-rails. No. 935,580; Sept. 28; Sp. p. 5260; Gaz. vol. 146; p. 922.
- Bourne, G. L. (See Hocking, J., assignor.)
- Bourne, G. L., New York, N. Y., assignor to Railway Materials Company, Chicago, Ill. Oil-fuel-combustion process. No. 933,953; Sept. 14; Sp. p. 2019; Gaz. vol. 146; p. 333.
- Bournonville, E. M. (See Peterson and Bournonville.)
- Bouscal, J., San Francisco, Cal. War-machine. No. 936,296; Oct. 12; Sp. p. 1427; Gaz. vol. 147; p. 248.
- Bouslog, G. T., Raymond, Miss. Bedstead. No. 911,370; Feb. 2; Sp. p. 678; Gaz. vol. 139; p. 116.
- Bousquet, L., *et al.* (See Landry, L. H., assignor.)
- Bousquet, T., *et al.* (See Landry, L. H., assignor.)
- Boutell Manufacturing Company. (See Boutell, W. H., assignor.)
- Boutell, W. H., assignor of one-half to Boutell Manufacturing Company, Rochester, N. Y. Fruit and vegetable slicing or chopping machine. No. 943,965; Dec. 21; Sp. p. 4151; Gaz. vol. 149; p. 719.
- Bouthillier, J. A. (See Layman and Bouthillier.)
- Bouthinon, G., New York, N. Y. Match-server. No. 929,823; Aug. 3; Sp. p. 415; Gaz. vol. 145; p. 69.
- Bouton, A. N. G. (See Germeau and Bouton.)
- Bouton, G. (See Dion and Bouton.)

*Alphabetical list of patentees—Continued.*

- Bouvet, C. O., New Castle, Del. Salt-cellar. No. 933,690; Sept. 7; Sp. p. 1488; Gaz. vol. 146; p. 224.
- Bouvier, A., Lyon, France. Apparatus for mixing, measuring, and carbureting gaseous bodies. No. 924,883; June 15; Sp. p. 3838; Gaz. vol. 143; p. 656.
- Bouwman, D., Bussum, Netherlands. Life-belt. No. 925,281; June 15; Sp. p. 4614; Gaz. vol. 143; p. 789.
- Bovard, T. M., Oakdale, Pa. Device for detaching horses from vehicles. No. 912,646; Feb. 16; Sp. p. 3348; Gaz. vol. 139; p. 601.
- Bovy, A. (See Dheyne and Bovy.)
- Bowden, J. A., Los Angeles, Cal. Tire. No. 931,989; Aug. 24; Sp. p. 5028; Gaz. vol. 145; p. 861.
- Bowen, A. F. W., San Francisco, Cal. Attachable eraser-holder for pencils. No. 916,987; Apr. 6; Sp. p. 43; Gaz. vol. 141; p. 12.
- Bowen, C. E., and J. A. Coffey, Cadillac, Mich. Collapsible folding box. No. 934,273; Sept. 14; Sp. p. 2639; Gaz. vol. 146; p. 438.
- Bowen, C. E., Alameda, Cal. Window-screen fly-trap. No. 910,492; Jan. 26; Sp. p. 4226; Gaz. vol. 138; p. 777.
- Bowen, C. L., Newark, Ill. Hay-press. No. 913,873; Mar. 2; Sp. p. 434; Gaz. vol. 140; p. 70.
- Bowen, E. L., McComb, Miss. Valve-gear. No. 922,250; May 18; Sp. p. 4438; Gaz. vol. 142; p. 770.
- Bowen, E. L., McComb City, Miss. Valve mechanism for steam-engines. No. 923,486; June 1; Sp. p. 830; Gaz. vol. 143; p. 125.
- Bowen, E. S., assignor of one-half to W. L. Fay, Geneva, N. Y. Sparking mechanism for gas-engines. No. 930,345; Aug. 10; Sp. p. 1457; Gaz. vol. 145; p. 265.
- Bowen, E. W. (See Kerlin and Bowen.)
- Bowen, F., New York, N. Y. Fastener for springs. No. 941,754; Nov. 30; Sp. p. 7271; Gaz. vol. 148; p. 1226.
- Bowen, G. W., Auburn, N. Y. Cap for lubricant-cups. No. 919,285; Apr. 20; Sp. p. 4974; Gaz. vol. 141; p. 834.
- Bowen, G. W., Auburn, N. Y. Grease or lubricant cup. No. 941,849; Nov. 30; Sp. p. 7496; Gaz. vol. 148; p. 1260.
- Bowen, J. A., Salt Lake City, Utah. Belt-cleaner. No. 932,434; Aug. 31; Sp. p. 5922; Gaz. vol. 145; p. 1032.
- Bowen, J. A., Salt Lake City, Utah. Belt-cleaner. No. 936,297; Oct. 12; Sp. p. 1428; Gaz. vol. 147; p. 248.
- Bowen, J. S. S., Minneapolis, Minn. Oar-lock support. No. 920,720; May 4; Sp. p. 1287; Gaz. vol. 142; p. 206.
- Bowen, R., Cheltenham, England. Apparatus to be employed in building walls of concrete. No. 919,687; Apr. 27; Sp. p. 5856; Gaz. vol. 141; p. 1005.
- Bower, R. S., Newton, Mass. Ornamental cap for screws and other fastenings. No. 915,068; Mar. 16; Sp. p. 2896; Gaz. vol. 140; p. 517.
- Bower, G. L., Blandburg, Pa. Railway-tie. No. 911,371; Feb. 2; Sp. p. 679; Gaz. vol. 139; p. 116.
- Bower, J. G., Chicago, Ill., assignor to Pressed Steel Car Company, Pittsburg, Pa. Car construction. No. 922,846; May 25; Sp. p. 5666; Gaz. vol. 142; p. 993.
- Bower & Kaufmann. (See Schuyler, C. J., assignor.)
- Bower, R. D., Oakville, Wash. Saw-handle. No. 930,035; Aug. 3; Sp. p. 865; Gaz. vol. 145; p. 139.
- Bower, S. B., Denver, Colo. Non-freezing attachment for pumps. No. 916,663; Mar. 30; Sp. p. 6103; Gaz. vol. 140; p. 1094.
- Bowerfnd, H. J., Fort Wayne, Ind. Composition of matter for nerve-canals in teeth. No. 908,942; Jan. 5; Sp. p. 1041; Gaz. vol. 138; p. 168.
- Bowers, B. B., Macon, Ga. Truck. No. 918,819; Apr. 20; Sp. p. 3867; Gaz. vol. 141; p. 682.
- Bowers, D. E., *et al.* (See Graham, E., assignor.)
- Bowers, E. L., assignor to New Home Sewing Machine Company, Orange, Mass. Sewing-machine. No. 944,843; Dec. 28; Sp. p. 6072; Gaz. vol. 149; p. 1044.
- Bowers, F. E., New Haven, Conn. Tire-case. No. 915,069; Mar. 16; Sp. p. 2898; Gaz. vol. 140; p. 517.
- Bowers, F. E., New Haven, Conn. Spare-tire case. No. 915,265; Mar. 16; Sp. p. 3330; Gaz. vol. 140; p. 582.
- Bowers, G. W., Somerville, Mass. Tobacco-pipe stem. No. 916,097; Mar. 23; Sp. p. 4986; Gaz. vol. 140; p. 884.
- Bowers, G. W., Somerville, assignor of one-half to O. T. Curtis, Woburn, Mass. Corner-fastener for frames. No. 909,055; Jan. 5; Sp. p. 1268; Gaz. vol. 138; p. 204.
- Bowers, G. W., Somerville, Mass., assignor to Kendrick & Davis, Lebanon, N. H. Micrometer screw-driver. No. 922,080; May 18; Sp. p. 4095; Gaz. vol. 142; p. 715.
- Bowers, G. W., Somerville, Mass., assignor, by mesne assignments, to Hammel, Riglander & Co., New York, N. Y. Peg-wood sharpener. No. 933,414; Sept. 7; Sp. p. 852; Gaz. vol. 146; p. 133.
- Bowers, G. W., Somerville, Mass., assignor, by mesne assignments, to Hammel, Riglander & Co., New York, N. Y. Watch-movement holder. No. 938,817; Nov. 2; Sp. p. 789; Gaz. vol. 148; p. 127.
- Bowers, G. W., Somerville, Mass., assignor, by mesne assignments, to Hammel, Riglander & Co., New York, N. Y. Mainspring-winder. No. 938,818; Nov. 2; Sp. p. 790; Gaz. vol. 148; p. 127.
- Bowers, G. W., Somerville, Mass., assignor, by mesne assignments, to Hammel, Riglander & Co., New York, N. Y. Roller-replacing tool for watchmakers. No. 938,819; Nov. 2; Sp. p. 792; Gaz. vol. 148; p. 128.
- Bowers, J. L. (See Bowers, O. L., assignor.)
- Bowers, J. W., Seymour, Ind., assignor to E. T. Carmichael, Columbus, Ohio. Car-seal. No. 922,251; May 18; Sp. p. 4441; Gaz. vol. 142; p. 771.
- Bowers, O. A., Milford, assignor to C. F. Roper & Company, Hopedale, Mass. Reversing-propeller. No. 910,899; Jan. 26; Sp. p. 5039; Gaz. vol. 138; p. 908.
- Bowers, O. L., assignor of one-half to J. L. Bowers, Willard, Ill. Automatic wire-tying machine. No. 942,305; Dec. 7; Sp. p. 587; Gaz. vol. 149; p. 94.
- Bowersox, L. H., Minneapolis, Minn. Shirt-neckband iron. No. 915,070; Mar. 16; Sp. p. 2899; Gaz. vol. 140; p. 517.
- Bowes, E. L., St. Louis, Mo. Door-latch. No. 936,214; Oct. 5; Sp. p. 1272; Gaz. vol. 147; p. 194.
- Bowes, J. J., Jr., Pensacola, Fla. Ordinance. No. 923,620; June 1; Sp. p. 1140; Gaz. vol. 143; p. 175.
- Bowes, W. M., New York, N. Y. Tension device for shears or scissors. No. 923,621; June 1; Sp. p. 1143; Gaz. vol. 143; p. 175.
- Bowhay, A. B. (See Shaw, C. M., assignor.)
- Bowie, A. J., Jr., Washington, D. C. Centrifugal fan. No. 909,863; Jan. 19; Sp. p. 2875; Gaz. vol. 138; p. 537.
- Bowie Manufacturing Company. (See Bowie, W. S., assignor.)
- Bowie, N. M., *et al.* (See Curtis, T. F., assignor.)
- Bowie, W. E. (See Jackson, R. T., Jr., assignor.)
- Bowie, W. S., assignor to Bowie Manufacturing Company, Boston, Mass. Hammock or swinging seat and supporting-frame therefor. No. 911,570; Feb. 9; Sp. p. 1066; Gaz. vol. 139; p. 208.
- Bowler, W., Boston, Mass. Machinery for manufacturing textile fabrics. No. 939,467; Nov. 9; Sp. p. 2269; Gaz. vol. 148; p. 376.
- Bowlby, W. (See Jones and Shepherd, assignors.)
- Bowles, J., Harrison, N. J. Hoisting-machine. No. 928,626; July 20; Sp. p. 4002; Gaz. vol. 144; p. 698.
- Bowman, A. L. (See Ahlstedt and Bowman.)
- Bowman, A. M., Avalon, Pa. Barge. No. 915,410; Mar. 16; Sp. p. 3613; Gaz. vol. 140; p. 629.
- Bowman, C. (See Bowman, M., assignor.)
- Bowman, D. O., Rockford, Mich. Sprayer. No. 931,030; Aug. 17; Sp. p. 2945; Gaz. vol. 145; p. 521.
- Bowman, G. W., and J. A. Becraft, Palisades, Colo. Heater. No. 941,910; Nov. 30; Sp. p. 7612; Gaz. vol. 148; p. 1281.
- Bowman, H. J., Nodaway, Iowa. Harness-maker's stitching-horse. No. 912,795; Feb. 16; Sp. p. 3709; Gaz. vol. 139; p. 652.
- Bowman, H. J., Nodaway, Iowa. Harness or leather stitching horse. No. 926,975; July 6; Sp. p. 557; Gaz. vol. 144; p. 91.
- Bowman, J. B., Los Angeles, Cal. Toy. No. 939,586; Nov. 9; Sp. p. 2522; Gaz. vol. 148; p. 416.
- Bowman, L. H., *et al.* (See Murphy, H. M. F., assignor.)
- Bowman, L. H., Munhall, and G. L. Damon, Pittsburg, Pa. Vault or safe. No. 918,952; Apr. 20; Sp. p. 4161; Gaz. vol. 141; p. 727.
- Bowman, L. H., Munhall, and G. L. Damon, Pittsburg, Pa. Vault or safe. No. 918,953; Apr. 20; Sp. p. 4163; Gaz. vol. 141; p. 727.
- Bowman, M., assignor of one-half to F. J. Montague, Chicago, Ill. Dough mixer and raiser. No. 917,921; Apr. 13; Sp. p. 1943; Gaz. vol. 141; p. 352.
- Bowman, M., McHenry, Md., assignor of one-half to C. Bowman, Boynton, Pa. Means for disconnecting telephone-lines. No. 925,420; June 15; Sp. p. 4864; Gaz. vol. 143; p. 832.
- Bowman, N. C. (See Burrell, J. A., assignor.)
- Bowman, R. C., West Austintown, Ohio. Harrow. No. 940,501; Nov. 16; Sp. p. 4574; Gaz. vol. 148; p. 764.
- Bowman, R. H., Canon City, Colo. Clutch mechanism for motor-vehicles. No. 923,938; June 8; Sp. p. 1851; Gaz. vol. 143; p. 308.
- Bowman, R. H., Canon City, Colo. Steering-gear for motor-vehicles. No. 935,293; Sept. 23; Sp. p. 4659; Gaz. vol. 146; p. 827.
- Bowman, R. H., Canon City, Colo. Hand-lever. No. 935,581; Sept. 23; Sp. p. 5261; Gaz. vol. 146; p. 922.
- Bowman, R. H., Canon City, Colo. Motor-vehicle. No. 935,582; Sept. 23; Sp. p. 5263; Gaz. vol. 146; p. 923.
- Bowman, S., Chicago, Ill. Washing-machine attachment. No. 941,304; Nov. 23; Sp. p. 6306; Gaz. vol. 148; p. 1055.
- Bowman, W., Atlanta, Ga. Folding umbrella. No. 935,836; Oct. 5; Sp. p. 504; Gaz. vol. 147; p. 72.
- Bowman, W. H., Elmhurst, Ill. Flushometer. No. 932,244; Aug. 24; Sp. p. 5557; Gaz. vol. 145; p. 946.
- Bown, C. E., assignor to Bown Machine Company, Ltd., Battle Creek, Mich. Tool-holder. No. 911,537; Feb. 2; Sp. p. 977; Gaz. vol. 139; p. 170.
- Bown, C. E., assignor to Bown Machine Company, Ltd., Battle Creek, Mich. Tool-holder. No. 913,804; Mar. 2; Sp. p. 265; Gaz. vol. 140; p. 45.
- Bown, D. E., Pittsburg, Pa. Socket for incandescent electric lamps. No. 921,199; May 11; Sp. p. 2254; Gaz. vol. 142; p. 397.
- Bown, H. E., Columbus, Ohio. Truck. No. 913,943; Mar. 2; Sp. p. 597; Gaz. vol. 140; p. 95.



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- Bown, H. E., Columbus, Ohio. Dental cabinet. No. 917,995; Apr. 13; Sp. p. 2112; Gaz. vol. 141; p. 379.
- Bown Machine Company. (See Bown, C. E., assignor.)
- Bowring, J., Manchester, England. Life-guard or obstruction-remover for tram-cars and the like. No. 919,688; Apr. 27; Sp. p. 5859; Gaz. vol. 141; p. 1006.
- Bowser, A. A., assignor to S. F. Bowser & Company, Fort Wayne, Ind. Bung-faucet. No. 920,908; May 11; Sp. p. 1668; Gaz. vol. 142; p. 297.
- Bowser, A. A., assignor to S. F. Bowser & Co., Incorporated, Fort Wayne, Ind. Pump-piston. No. 932,371; Aug. 24; Sp. p. 5785; Gaz. vol. 145; p. 988.
- Bowser, A. A., assignor to S. F. Bowser & Company, Fort Wayne, Ind. Double-acting pump. No. 932,531; Aug. 31; Sp. p. 6131; Gaz. vol. 145; p. 1064.
- Bowser, A. A., assignor to S. F. Bowser & Co., Fort Wayne, Ind. Separator-tank. No. 932,532; Aug. 31; Sp. p. 6134; Gaz. vol. 145; p. 1065.
- Box, W. N., Northfield, and H. Brown, assignors to N. J. Blomgren, Minneapolis, Minn. Mold for building-blocks. No. 911,110; Feb. 2; Sp. p. 165; Gaz. vol. 139; p. 31.
- Boxer, F. W., assignor of one-fourth to J. Robinson, Montreal, Quebec, Canada. Metal heel-protector for rubber shoes and the like. No. 931,261; Aug. 17; Sp. p. 3461; Gaz. vol. 145; p. 601.
- Boyajean, J. A., New York, N. Y. Vehicle-wheel tire. No. 942,364; Dec. 7; Sp. p. 701; Gaz. vol. 149; p. 114.
- Boyce, E. D., New York, N. Y. Forming-dies. No. 939,468; Nov. 9; Sp. p. 2276; Gaz. vol. 148; p. 377.
- Boyce, E. I., New York, N. Y. Invalid's supporter. No. 914,785; Mar. 9; Sp. p. 2380; Gaz. vol. 140; p. 400.
- Boyce, H. H., New York, N. Y., assignor to Gillette Safety Razor Company, Boston, Mass. Safety-razor. No. 917,532; Apr. 6; Sp. p. 1125; Gaz. vol. 141; p. 197.
- Boyce, J. A., Springfield, Ill. Printing-machine. No. 924,310; June 8; Sp. p. 2658; Gaz. vol. 143; p. 432.
- Boyce, J. I., Leechburg, Pa. Lock-nut. No. 917,530; Apr. 6; Sp. p. 1121; Gaz. vol. 141; p. 196.
- Boyce, R. M., Evansville, Ind. Mangle-conveyer. No. 943,297; Dec. 14; Sp. p. 2724; Gaz. vol. 149; p. 460.
- Boyce & Son, J. H. (See Saldin, M., assignor.)
- Boyce, W. D., St. Louis, Mo. Fire-box. No. 938,036; Oct. 26; Sp. p. 5078; Gaz. vol. 147; p. 874.
- Boyd, B. K., Owosso, Mich. Crate or box. No. 925,799; June 22; Sp. p. 5694; Gaz. vol. 143; p. 926.
- Boyd, B. W., Readsboro, Vt. Pulp-screen. No. 911,469; Feb. 2; Sp. p. 842; Gaz. vol. 139; p. 148.
- Boyd, B. Y., Chicago, Ill. Electrotherapeutic apparatus. No. 926,384; June 29; Sp. p. 6893; Gaz. vol. 143; p. 1213.
- Boyd, D. C., Galion, Ohio. Culvert. No. 913,685; Mar. 2; Sp. p. 13; Gaz. vol. 140; p. 5.
- Boyd, D. C., Galion, Ohio. Culvert. No. 915,266; Mar. 16; Sp. p. 3331; Gaz. vol. 140; p. 582.
- Boyd, D. C., Galion, Ohio. Road-drag. No. 920,422; May 4; Sp. p. 684; Gaz. vol. 142; p. 107.
- Boyd, D. C., Galion, Ohio. Road-drag. No. 924,311; June 8; Sp. p. 2663; Gaz. vol. 143; p. 433.
- Boyd, D. F., Toledo, Ohio. Tire for vehicles. No. 918,820; Apr. 20; Sp. p. 3869; Gaz. vol. 141; p. 682.
- Boyd, F. P., Philadelphia, Pa. Automatic safety elevator-door opener and closer. No. 942,770; Dec. 7; Sp. p. 1525; Gaz. vol. 149; p. 250.
- Boyd, G. H., Washington, D. C. Incubator. No. 932,108; Aug. 24; Sp. p. 5285; Gaz. vol. 145; p. 901.
- Boyd, H. B. (See Cobb, A. L., assignor.)
- Boyd, I., Pond Hill, Pa. Ice-shaping machine. No. 934,135; Sept. 14; Sp. p. 2392; Gaz. vol. 144; p. 392.
- Boyd, J., Bothwell, assignor of one-half to D. Phillips and J. Scott & Sons, Limited, Dundee, Scotland. Mechanism for guiding and applying tension to spindle-driving bands. No. 940,502; Nov. 16; Sp. p. 4575; Gaz. vol. 148; p. 764.
- Boyd, J. E., Columbus, Ohio. Apparatus for measuring acceleration. No. 930,142; Aug. 3; Sp. p. 1099; Gaz. vol. 145; p. 177.
- Boyd, J. L. (See Powers and Boyd.)
- Boyd, J. M., Fond du Lac, Wis. Hay-sling. No. 939,469; Nov. 9; Sp. p. 2278; Gaz. vol. 148; p. 377.
- Boyd, P., and J. A. Hock, assignors to National Tube Company, Pittsburg, Pa. Pipe coupling or joint. No. 918,954; Apr. 20; Sp. p. 4105; Gaz. vol. 141; p. 728.
- Boyd, R. H., Philadelphia, Pa. Ventilating shoe-tree and display-form. No. 927,104; July 6; Sp. p. 854; Gaz. vol. 144; p. 137.
- Boyd, R. L., Alexandria, La. Load-binder. No. 931,710; Aug. 17; Sp. p. 4411; Gaz. vol. 145; p. 748.
- Boyd, S. O. (See Lombard, F. H., assignor.)
- Boyd, S. T., Sloan, Iowa. Flue-cutter. No. 920,254; May 4; Sp. p. 338; Gaz. vol. 142; p. 53.
- Boyd, G. A., Mount Washington, Md. Liquid gear for propellers. No. 932,435; Aug. 31; Sp. p. 5923; Gaz. vol. 145; p. 1032.
- Boyd, J. P., Brookline, Mass. Adjusting device. No. 925,448; June 22; Sp. p. 4942; Gaz. vol. 143; p. 873.
- Boye, J. H., Chicago, Ill., assignor to Boye Needle Company. Means for and method of displaying sewing-machine belts. No. 912,790; Feb. 16; Sp. p. 3713; Gaz. vol. 139; p. 652.
- Boye, J. H., assignor to Boye Needle Company, Chicago, Ill. Commodity-cabinet. No. 912,797; Feb. 16; Sp. p. 3714; Gaz. vol. 139; p. 653.
- Boye Needle Company. (See Boye, J. H., assignor.)
- Boyens, W. F. A., Brooklyn, N. Y., assignor of one-third to W. J. Dooley and one-third to E. D. Johnson, Washington, D. C. Non-refillable-bottle cap. No. 936,082; Oct. 5; Sp. p. 1021; Gaz. vol. 147; p. 154.
- Boyer, A. P., Goshen, Ind. Hay-sling lock. No. 909,141; Jan. 12; Sp. p. 1474; Gaz. vol. 138; p. 268.
- Boyer, A. P., Goshen, Ind. Trussed ladder. No. 922,847; May 25; Sp. p. 5667; Gaz. vol. 142; p. 993.
- Boyer, F. A., St. Louis, Mo. Lap-fastener. No. 943,135; Dec. 14; Sp. p. 2389; Gaz. vol. 149; p. 406.
- Boyer, H. C. (See Goble, J. F. S., assignor.)
- Boyer, J., Detroit, Mich. Pneumatic hammer. No. 917,242; Apr. 6; Sp. p. 573; Gaz. vol. 141; p. 100.
- Boyer, O., Spencerville, Ohio. Separator attachment for corn-husking machines. No. 926,464; June 29; Sp. p. 7037; Gaz. vol. 143; p. 1240.
- Boyer, O., Spencerville, Ohio. Combined hay rake and loader. No. 938,959; Nov. 2; Sp. p. 1109; Gaz. vol. 148; p. 177.
- Boyer, S., Evansville, Ind. Plow-hitch. No. 919,121; Apr. 20; Sp. p. 4470; Gaz. vol. 141; p. 780.
- Boyer, W. T., *et al.* (See Beebe, E. C., assignor.)
- Boyeux, J., Villeurbanne, France. Sizing textile materials. No. 934,034; Sept. 14; Sp. p. 2162; Gaz. vol. 146; p. 357.
- Boyington, H. A., Newington, Conn. Lamp-extinguisher. No. 923,622; June 1; Sp. p. 1144; Gaz. vol. 143; p. 175.
- Boykin, W. W., assignor of one-half to A. B. Cameron, Elm City, N. C. Hay-press. No. 940,669; Nov. 23; Sp. p. 4933; Gaz. vol. 148; p. 844.
- Boylard, J. P. (See Horner and Boyland.)
- Boyle, C. B., deceased; E. J. Boyle and Z. M. Boyle, administrators, New York, N. Y. Optical instrument. No. 931,673; Aug. 17; Sp. p. 4295; Gaz. vol. 145; p. 734.
- Boyle, E. J., *et al.*, administrators. (See Boyle, C. B.)
- Boyle, E. R., and W. B. Upton, Washington, D. C. Reinforcing means for concrete structures. No. 925,989; June 22; Sp. p. 6065; Gaz. vol. 143; p. 1049.
- Boyle, F. E., Centerville, Iowa. Sifter. No. 935,354; Sept. 28; Sp. p. 4797; Gaz. vol. 146; p. 848.
- Boyle, F. E., Centerville, Iowa. Sifter. No. 935,355; Sept. 28; Sp. p. 4798; Gaz. vol. 146; p. 848.
- Boyle, J., Peabody, Mass. Exhaust-muffler. No. 943,233; Dec. 14; Sp. p. 2586; Gaz. vol. 149; p. 438.
- Boyle, J. M., assignor to Sanderson & Porter, New York, N. Y. Comparative recording apparatus. No. 910,493; Jan. 26; Sp. p. 4227; Gaz. vol. 138; p. 778.
- Boyle, M. J., assignor of one-half to W. Sillman, New York, N. Y. Steam-trap. No. 937,505; Oct. 19; Sp. p. 4002; Gaz. vol. 147; p. 679.
- Boyle, W. A., Chicago, Ill. Vise. No. 917,243; Apr. 6; Sp. p. 580; Gaz. vol. 141; p. 100.
- Boyle, Z. M., *et al.*, administrators. (See Boyle, C. B.)
- Boyles, W. T. (See Locke, J. R., assignor.)
- Boynton Furnace Company. (See Rouse, R., Jr., assignor.)
- Boyse, C. W., assignor of one-half to D. B. Carmichael, Chicago, Ill. Gas-cock. No. 928,898; July 20; Sp. p. 4539; Gaz. vol. 144; p. 791.
- Boyse, C. W., assignor of one-half to D. B. Carmichael, Chicago, Ill. Gas-lamp. No. 928,899; July 20; Sp. p. 4542; Gaz. vol. 144; p. 792.
- Bozaad, H. B. (See Davis and Bozard.)
- Braaten, C. A., Brooklyn, N. Y. Liquid-fuel burner. No. 939,121; Nov. 2; Sp. p. 1423; Gaz. vol. 148; p. 232.
- Brabrook, G. H., Taunton, Mass. Ornamental glass. No. 921,355; May 11; Sp. p. 2602; Gaz. vol. 142; p. 448.
- Brabson, F., *et al.* (See Wilcox, H., assignor.)
- Brabson, F. (See Wilcox and Brabson.)
- Braby, H., Sydney, New South Wales, Australia. Atomizer or burner for liquid fuel. No. 930,346; Aug. 10; Sp. p. 1461; Gaz. vol. 145; p. 267.
- Brace, L. H. (See Fahrney, W. H., assignor.)
- Bracewell, L. M., Sewal, Iowa. Railway signaling. No. 910,454; Jan. 19; Sp. p. 4136; Gaz. vol. 138; p. 741.
- Brach, L. S., New York, N. Y., assignor by mesne assignments, to United States Lock-Nut Company. Nut-lock. No. 940,503; Nov. 16; Sp. p. 4576; Gaz. vol. 148; p. 764.
- Brach, W., Smithfield, N. C. Bill-file. No. 921,200; May 11; Sp. p. 2258; Gaz. vol. 142; p. 397.
- Bracher, K. A. A., Toronto, Ontario, Canada. Billiard-table. No. 921,651; May 11; Sp. p. 3209; Gaz. vol. 142; p. 548.
- Bracht, O. F., and G. E. Bernard, St. Louis, Mo. Rack for holding display-boxes. No. 930,725; Aug. 10; Sp. p. 2262; Gaz. p. 393.145; vol. 148.
- Brachvogel, J. K. (See Munn and Brachvogel.)
- Brackelsberg, C. D., Madella, Minn. Quack-grass digger. No. 910,168; Jan. 19; Sp. p. 3494; Gaz. vol. 138; p. 638.

*Alphabetical list of patentees—Continued.*

- Brackelsberg, H. J., Sherwood, N. D. Fire-escape. No. 932,436; Aug. 31; Sp. p. 5926; Gaz. vol. 145; p. 1033.
- Bracken, H. J., and W. C. Ward, Norwalk, Conn. Rubber-shoe attachment. No. 914,477; Mar. 9; Sp. p. 1736; Gaz. vol. 140; p. 298.
- Brackett, W. D., Minneapolis, Minn. Electric gas-igniter. No. 922,081; May 18; Sp. p. 4097; Gaz. vol. 142; p. 716.
- Brackney, J. W., Fullerton, Cal. Underreamer. No. 932,533; Aug. 31; Sp. p. 6137; Gaz. vol. 145; p. 1065.
- Bracy, E. L., Scotland Neck, N. C. Machine for packeting cigarettes, &c. No. 941,490; Nov. 30; Sp. p. 6719; Gaz. vol. 148; p. 1138.
- Bradau, A. J. (See Standard, C., assignor.)
- Bradburn, C. F., Delmer, Ontario, Canada. Telephone system. No. 918,955; Apr. 20; Sp. p. 4166; Gaz. vol. 141; p. 728.
- Bradburn, J. A., Syracuse, N. Y. Furnace. No. 911,550; Feb. 2; Sp. p. 1001; Gaz. vol. 139; p. 174.
- Bradbury, C. E., trustee. (See Clay, A. B., assignor.)
- Bradbury, H. L., and O. A. Grubb, Fairfield, Ill. Wire-stretcher. No. 934,387; Sept. 14; Sp. p. 2256; Gaz. vol. 146; p. 477.
- Bradbury, R., Broadstairs, England. Dental appliance. No. 920,013; Apr. 27; Sp. p. 6518; Gaz. vol. 141; p. 1112.
- Braddock, E. I., Winchester, assignor to Braddock Motive Power Company, Boston, Mass. Turbine. No. 911,470; Feb. 2; Sp. p. 844; Gaz. vol. 139; p. 148.
- Braddock, E. I., Winchester, assignor to Braddock Motive Power Company, Boston, Mass. Turbine. No. 916,386; Mar. 23; Sp. p. 5513; Gaz. vol. 140; p. 979.
- Braddock, E. I., Winchester, assignor to Braddock Motive Power Company, Boston, Mass. Turbine. No. 925,556; June 22; Sp. p. 5146; Gaz. vol. 143; p. 907.
- Braddock, E. I., Winchester, assignor to Braddock Motive Power Company, Boston, Mass. Turbine. No. 926,803; July 6; Sp. p. 196; Gaz. vol. 144; p. 33.
- Braddock Motive Power Company. (See Braddock, E. I., assignor.)
- Braden, C. H., Winfield, Kans. Gutter-scraper. No. 929,278; July 27; Sp. p. 5355; Gaz. vol. 144; p. 943.
- Braden, E. H., Pleasanton, Kans. Washing-machine. No. 915,823; Mar. 23; Sp. p. 4478; Gaz. vol. 140; p. 704.
- Braden, W. A., Chicago, Ill. Track construction. No. 927,216; July 6; Sp. p. 1065; Gaz. vol. 144; p. 173.
- Bradford, A., Kennett, Cal. Weighing apparatus. No. 923,240; June 1; Sp. p. 245; Gaz. vol. 143; p. 41.
- Bradford, A., Kennett, Cal. Weighing apparatus. No. 925,282; June 15; Sp. p. 4616; Gaz. vol. 143; p. 789.
- Bradford, C. (See Hood, E. K., assignor.)
- Bradford, C. E., Lakeview, Wash. Wrench. No. 934,589; Sept. 21; Sp. p. 3250; Gaz. vol. 146; p. 567.
- Bradford, C. T., Hoboken, N. J. Backing device. No. 917,996; Apr. 13; Sp. p. 2114; Gaz. vol. 141; p. 380.
- Bradford, E. C. (See Smith, F. E., assignor.)
- Bradford, E. E. (See Keyes, C. H., assignor.)
- Bradford, E. S., Jr., Springfield, Mass., and M. Olson, Bridgeport, Conn., assignors to Massachusetts Saw Works, Chicopee, Mass. Hack-saw-machine. No. 943,646; Dec. 21; Sp. p. 3508; Gaz. vol. 149; p. 610.
- Bradford, H., and H. V. Paris, Cave Spring, Ga. Recording device. No. 911,435; Feb. 2; Sp. p. 791; Gaz. vol. 139; p. 138.
- Bradford, J., assignor of one-half to D. Shapiro, Nebo, La. Cultivating-harrow. No. 913,256; Feb. 23; Sp. p. 4611; Gaz. vol. 139; p. 827.
- Bradford, J. G. (See McCracken and Bradford.)
- Bradford, Q. Q., Palolo Valley, Honolulu, Hawaii. Knife for tapping rubber-trees. No. 940,670; Nov. 23; Sp. p. 4935; Gaz. vol. 148; p. 844.
- Bradford, T. B., Monongahela, Pa. Closure for receptacles. No. 933,524; Sept. 7; Sp. p. 1166; Gaz. vol. 146; p. 168.
- Bradford, T. B., Monongahela, Pa. Pipe. No. 936,083; Oct. 5; Sp. p. 1023; Gaz. vol. 147; p. 155.
- Bradford, T. B., Monongahela, Pa. Metallic tie. No. 939,794; Nov. 9; Sp. p. 2980; Gaz. vol. 148; p. 490.
- Bradford, W. A. (See Buchannan, E. M., assignor.)
- Bradford, W. A. (See Buckhannon, E. M., assignor.)
- Bradley, A. H., New Orleans, La. Grass-burner for railway-tracks. No. 920,721; May 4; Sp. p. 1288; Gaz. vol. 142; p. 207.
- Bradley, A. J., New York, N. Y. Machine for oiling paper. No. 920,529; May 4; Sp. p. 878; Gaz. vol. 142; p. 142.
- Bradley, A. J., New York, N. Y. Stencil-machine. No. 920,530; May 4; Sp. p. 881; Gaz. vol. 142; p. 143.
- Bradley, A. J., New York, N. Y. Machine for printing on shoe-linings and the like. No. 920,531; May 4; Sp. p. 886; Gaz. vol. 142; p. 143.
- Bradley, A. J., New York, N. Y. Machine for printing on shoe-linings and the like. No. 920,532; May 4; Sp. p. 891; Gaz. vol. 142; p. 144.
- Bradley, A. J., New York, N. Y. Printing-stamp. No. 920,533; May 4; Sp. p. 893; Gaz. vol. 142; p. 144.
- Bradley, B. B., assignor to I. C. Freud, Detroit, Mich. Spare-rim holder. No. 941,341; Nov. 23; Sp. p. 6366; Gaz. vol. 148; p. 1065.
- Bradley, B. L., assignor to M. Nusbaum, Baltimore, Md. Varnishing-machine. No. 911,471; Feb. 2; Sp. p. 845; Gaz. vol. 139; p. 149.
- Bradley, C. A., Haviland, Kans. Four-horse doubletree. No. 917,533; Apr. 6; Sp. p. 1126; Gaz. vol. 141; p. 197.
- Bradley, C. C. (See Bradley and Fairchild, assignors.)
- Bradley, C. C. (See Raymond, F., assignor.)
- Bradley, C. S., New York, N. Y., assignor to General Electric Company. Alternating-current-motor system. No. 910,638; Jan. 26; Sp. p. 4535; Gaz. vol. 138; p. 826.
- Bradley, C. W., and G. R. Unkefer, Chicago, Ill. Fish-hook. No. 914,478; Mar. 9; Sp. p. 1737; Gaz. vol. 140; p. 298.
- Bradley, E. E., assignor to Atwood-Morrison Company, Stonington, Conn. Guide-motion for quill-winding machines. No. 922,848; May 25; Sp. p. 5668; Gaz. vol. 142; p. 993.
- Bradley, F., and F. H. Fairchild, Detroit, assignors of one-third to C. C. Bradley, Mount Clemens, Mich. Vehicle-wheel. No. 924,139; June 8; Sp. p. 2254; Gaz. vol. 143; p. 373.
- Bradley, F. E. and J. S., Corona, Cal. Cultivator. No. 937,760; Oct. 26; Sp. p. 4505; Gaz. vol. 147; p. 782.
- Bradley, F. W., McKees Rocks, Pa. Drop-door structure for cars. No. 914,786; Mar. 9; Sp. p. 2382; Gaz. vol. 140; p. 400.
- Bradley, H. E., Apponaug, R. I. Electric toaster. No. 926,714; June 29; Sp. p. 7522; Gaz. vol. 143; p. 1324.
- Bradley, H. E., Greenwood, R. I., assignor to Morse Twist Drill & Machine Company, New Bedford, Mass. Drill-socket. No. 926,845; July 6; Sp. p. 296; Gaz. vol. 144; p. 47.
- Bradley, H. L., New Haven, Conn. Ceiling-hook. No. 927,483; July 13; Sp. p. 1600; Gaz. vol. 144; p. 287.
- Bradley & Hubbard Mfg. Co. (See Crooke, R. F., assignor.)
- Bradley, J., Cold Springs, Okla. Stump-extractor. No. 914,920; Mar. 9; Sp. p. 2637; Gaz. vol. 140; p. 442.
- Bradley, J., Waltham, Mass., assignor to T. R. Almond Manufacturing Co., Brooklyn, N. Y. Drill-chuck. No. 933,741; Sept. 14; Sp. p. 1609; Gaz. vol. 146; p. 265.
- Bradley, J. C., assignor of one-fourth to F. D. Thomason, Chicago, Ill. Hair-waving device. No. 911,571; Feb. 9; Sp. p. 1068; Gaz. vol. 139; p. 208.
- Bradley, J. C., assignor of one-fourth to F. D. Thomason, Chicago, Ill. Hair-waving iron. No. 912,531; Feb. 16; Sp. p. 3122; Gaz. vol. 139; p. 561.
- Bradley, J. S. (See Bradley, F. E. and J. S.)
- Bradley, J. S., New Concord, Ohio. Computing-scale. No. 909,743; Jan. 12; Sp. p. 2646; Gaz. vol. 138; p. 467.
- Bradley, J. S., New Concord, Ohio. Platform computing-scale. No. 909,744; Jan. 12; Sp. p. 2648; Gaz. vol. 138; p. 467.
- Bradley, J. S., New Concord, Ohio. Computing-scale. No. 909,745; Jan. 12; Sp. p. 2649; Gaz. vol. 138; p. 467.
- Bradley, J. S., New Concord, Ohio. Platform computing-scale. No. 909,746; Jan. 12; Sp. p. 2651; Gaz. vol. 138; p. 468.
- Bradley, M. E., Booneville, Ark. Storehouse for vegetables. No. 934,274; Sept. 14; Sp. p. 2640; Gaz. vol. 146; p. 438.
- Bradley, P. B. (See Foote, T. M., assignor.)
- Bradley Stencil Machine Company. (See Remnsnider, G., assignor.)
- Bradley & Vrooman Company. (See Rosenthal, S., assignor.)
- Bradley, W. D., Chicago, Ill. Glass and concrete construction. No. 934,136; Sept. 14; Sp. p. 2395; Gaz. vol. 146; p. 392.
- Bradley, W. J., Troy, N. Y. Boiler-flue cleaner. No. 926,722; July 6; Sp. p. 4; Gaz. vol. 144; p. 3.
- Bradmillier, F., assignor to Seybold Machine Company, Dayton, Ohio. Paper-cutting machine. No. 918,120; Apr. 13; Sp. p. 2360; Gaz. vol. 141; p. 422.
- Bradshaw, C. A., et al. (See Haynes, J., assignor.)
- Bradshaw, E., assignor to M. Bradshaw, San Francisco, Cal. Garbage chute and can. No. 942,854; Dec. 7; Sp. p. 1712; Gaz. vol. 149; p. 278.
- Bradshaw, G. D. (See Lothrop and Bradshaw.)
- Bradshaw, M. (See Bradshaw, E., assignor.)
- Bradshaw, M. Z., et al. (See Souder, H. W., assignor.)
- Bradshaw, R. II. (See Erickson and Bradshaw.)
- Bradshaw, W. H., Nyack, N. Y. Eyeglass-holder. No. 942,480; Dec. 7; Sp. p. 950; Gaz. vol. 149; p. 153.
- Bradshaw, W. M., Wilkensburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Prepayment-machine. No. 929,911; Aug. 3; Sp. p. 623; Gaz. vol. 145; p. 98.
- Bradshaw, W. M., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mounting for speed-changing gearing. No. 930,036; Aug. 3; Sp. p. 866; Gaz. vol. 145; p. 140.
- Bradshaw, W. T., et al. (See Crow, J. W., assignor.)
- Bradt, J. H., et al. (See Purdy, H. E., assignor.)
- Bradway, C., Schenectady, N. Y., assignor to General Electric Company. Vapor electric apparatus. No. 925,620; June 22; Sp. p. 5278; Gaz. vol. 143; p. 928.
- Bradway, S. P., et al. (See Stant, I. O., assignor.)



*Alphabetical list of patentees—Continued.*

- Brady, A. J., Passaic, N. J. Washboiler attachment. No. 944,411; Dec. 28; Sp. p. 5110; Gaz. vol. 149; p. 897.
- Brady, B. W. (See Nistle, Brady, and Inskip.)
- Brady, B. W. (See Nistle, Inskip, and Brady.)
- Brady, D. J. (See Martin, G. J., assignor.)
- Brady, F. W., New York, N. Y. Internal-combustion engine. No. 909,531; Jan. 12; Sp. p. 2219; Gaz. vol. 138; p. 394.
- Brady, G., and H. F. Abbott, Jackson, Mich. Feed-regulator. No. 929,279; July 27; Sp. p. 5356; Gaz. vol. 144; p. 943.
- Brady, J. H., Kansas City, Mo. Adjustable trap. No. 934,035; Sept. 14; Sp. p. 2163; Gaz. vol. 146; p. 358.
- Brady, J. H., Kansas City, Mo. Thermostat. No. 938,548; Nov. 2; Sp. p. 244; Gaz. vol. 148; p. 36.
- Brady, J. H., assignor of one-half to D. A. Keller, Louisville, Ky. Web-cutting attachment for wrapping-machines. No. 913,352; Feb. 23; Sp. p. 4799; Gaz. vol. 139; p. 860.
- Brady, J. T., St. Louis, Mo. Gasservice-cock. No. 932,437; Aug. 31; Sp. p. 5927; Gaz. vol. 145; p. 1033.
- Brady, J. W., assignor of one-half to E. M. Walker, Neodesha, Kans. Track-sander. No. 909,056; Jan. 5; Sp. p. 1270; Gaz. vol. 138; p. 204.
- Brady, L. C., Milesburg, Pa. Tug-fastener. No. 916,664; Mar. 30; Sp. p. 6106; Gaz. vol. 140; p. 1094.
- Brady, L. H., Kansas City, Mo. Gas-burner. No. 942,709; Dec. 7; Sp. p. 1397; Gaz. vol. 149; p. 229.
- Brady, T. H., New Britain, Conn. Adjustable insulated joint. No. 916,414; Mar. 30; Sp. p. 5591; Gaz. vol. 140; p. 1013.
- Bragan, G. D., Newton, Ala. Cotton-chopper. No. 928,932; July 27; Sp. p. 4618; Gaz. vol. 144; p. 828.
- Brainard, J. W., Pittsburg, Pa. Wooden barrel or keg and head therefor. No. 914,787; Mar. 9; Sp. p. 2384; Gaz. vol. 140; p. 400.
- Brainard, J. W., Pittsburg, Pa. Metal hoop. No. 938,205; Oct. 26; Sp. p. 5460; Gaz. vol. 147; p. 933.
- Brainard, O. L., Sacramento, Cal. Spark-timer for internal-combustion gas-engines. No. 941,556; Nov. 30; Sp. p. 6846; Gaz. vol. 148. p. 1159.
- Brainard, S. R., East Waterloo township, Blackhawk county, Iowa. Motor-vehicle. No. 912,798; Feb. 16; Sp. p. 3716; Gaz. vol. 139; p. 653.
- Braine, B. G. (See Wolhaupter and Braine.)
- Braine, B. G., assignor to Rail Joint Company, New York, N. Y. Compromise rail-joint. No. 920,817; May 4; Sp. p. 1470; Gaz. vol. 142; p. 238.
- Braine, B. G., assignor to Rail Joint Company, New York, N. Y. Rail-joint. No. 927,105; July 6; Sp. p. 856; Gaz. vol. 144; p. 137.
- Braine, L. F. (See Wolhaupter and Braine.)
- Brakeley, J., Freehold, N. J., assignor to A. Slaysman, Jr., Baltimore, Md. Can-heading machine. No. 914,695; Mar. 9; Sp. p. 2196; Gaz. vol. 140; p. 369.
- Brakeman, R. R., Palatka, Fla. Handle. No. 928,101; July 13; Sp. p. 2884; Gaz. vol. 144; p. 493.
- Braley, T. E., Horton, Kans. Rotary gasoline-engine. No. 943,592; Dec. 14; Sp. p. 3325; Gaz. vol. 149; p. 560.
- Bralley, W. S. (See Taylor and Bralley.)
- Bralley, W. S., Schenectady, N. Y., assignor to General Electric Company. System of distribution. No. 916,988; Apr. 6; Sp. p. 44; Gaz. vol. 141; p. 12.
- Bramble, H. S., Philadelphia, Pa. Ash-box carrier. No. 912,444; Feb. 16; Sp. p. 2930; Gaz. vol. 139; p. 531.
- Brammer, S. V., Cincinnati, Ohio. Washing-machine. No. 933,618; Sept. 7; Sp. p. 1345; Gaz. vol. 146; p. 200.
- Brams, S. (See Martin and Brams.)
- Bramson, L., Copenhagen, Denmark. Massage apparatus. No. 916,098; Mar. 23; Sp. p. 4988; Gaz. vol. 140; p. 884.
- Bramstadt, R. F., Seattle, Wash. Spike-puller. No. 925,557; June 22; Sp. p. 5147; Gaz. vol. 143; p. 907.
- Branaman, G. M., Kansas City, Mo. Electric head-cap. No. 915,824; Mar. 23; Sp. p. 4479; Gaz. vol. 140; p. 704.
- Branch, B. O., Memphis, Tenn. Ladle. No. 917,409; Apr. 6; Sp. p. 909; Gaz. vol. 141; p. 157.
- Brand, A. W., Boise, Idaho. Milk-can cover. No. 910,169; Jan. 19; Sp. p. 3496; Gaz. vol. 138; p. 639.
- Brand, A. W., Boise, Idaho. Device for feeding air to furnaces. No. 934,275; Sept. 14; Sp. p. 2642; Gaz. vol. 146; p. 439.
- Brand, A. W., Boise, Idaho. Anchor rail-clamp. No. 938,549; Nov. 2; Sp. p. 247; Gaz. vol. 148; p. 37.
- Brand, G. P., New York, N. Y. Coin-operated releasing mechanism. No. 909,362; Jan. 12; Sp. p. 1885; Gaz. vol. 138; p. 337.
- Brand, G. P., New York, N. Y. Tracker-bar. No. 909,532; Jan. 12; Sp. p. 2222; Gaz. vol. 138; p. 394.
- Brand, G. P., New York, N. Y. Pneumatic piano-playing mechanism. No. 928,102; July 13; Sp. p. 2885; Gaz. vol. 144; p. 493.
- Brand, G. P., New York, N. Y. Mechanical musical apparatus. No. 935,775; Oct. 5; Sp. p. 339; Gaz. vol. 147; p. 52.
- Brand, J. S., Fairhaven, Mass., assignor to Signature Company, New York, N. Y. Means for simultaneously writing a plurality of signatures or inscriptions. No. 919,689; Apr. 27; Sp. p. 5861; Gaz. vol. 141; p. 1006.
- Brand, M., assignor to Improved Smoking Process Co., New York, N. Y. Smoking and curing meat products. No. 928,900; July 20; Sp. p. 4545; Gaz. vol. 144; p. 792.
- Brand, P., and C. G. Glarsrud, Sheyenne, N. D. Dumping-vehicle. No. 929,382; July 27; Sp. p. 5585; Gaz. vol. 144; p. 979.
- Brandau, G. F., Utica, N. Y. Folding car-step. No. 939,970; Nov. 16; Sp. p. 3345; Gaz. vol. 148; p. 579.
- Brandell, C. O., Chicago, Ill. Tamping-machine. No. 943,966; Dec. 21; Sp. p. 4153; Gaz. vol. 149; p. 719.
- Brandenburg, E. A., Los Angeles, Cal. Locking device for valves. No. 924,423; June 8; Sp. p. 2872; Gaz. vol. 143; p. 469.
- Brandes, H. H., Corydon, Ky. Bridle-blind. No. 921,072; May 11; Sp. p. 2004; Gaz. vol. 142; p. 352.
- Brandle, H. (See Smith, J., assignor.)
- Brandon, W. L., Reno, Nev. Milk-pail. No. 944,940; Dec. 28; Sp. p. 6259; Gaz. vol. 149; p. 1075.
- Brandow, F. W., assignor to Jacobson-Brandow Company, Pittsfield, Mass. Spark-indicator. No. 926,976; July 6; Sp. p. 560; Gaz. vol. 144; p. 92.
- Brandrick, I. E., Ardley, N. Y. Coffee-grinder. No. 934,590; Sept. 21; Sp. p. 3252; Gaz. vol. 146; p. 567.
- Brandt, C. J., Windemere, Minn. Shingle-machine. No. 944,659; Dec. 28; Sp. p. 5662; Gaz. vol. 149; p. 982.
- Brandt Cashier Company. (See Brandt, E. J., assignor.)
- Brandt, D. E., Chicago City, Minn. Bevel-square. No. 937,020; Oct. 12; Sp. p. 2944; Gaz. vol. 147; p. 490.
- Brandt, E. E., *et al.* (See Leavell, T. G., assignor.)
- Brandt, E. J., Watertown, Wis., assignor to Brandt Cashier Company, Chicago, Ill. Annunciator. No. 909,142; Jan. 12; Sp. p. 1475; Gaz. vol. 138; p. 268.
- Brandt, E. J., Watertown, Wis., assignor to Brandt Cashier Company, Chicago, Ill. Calculating implement. No. 941,004; Nov. 23; Sp. p. 5653; Gaz. vol. 148; p. 955.
- Brandt, E. J., Watertown, Wis., assignor to Brandt Cashier Company, Chicago, Ill. Designating, recording, and registering mechanism. No. 941,005; Nov. 23; Sp. p. 5654; Gaz. vol. 148; p. 956.
- Brandt, E. J., assignor to Edward J. Brandt-Dent Company, Watertown, Wis. Coin-delivery machine. No. 923,013; May 25; Sp. p. 6005; Gaz. vol. 142; p. 1046.
- Brandt, H. E. (See Brandt, P. and H. E.)
- Brandt, H. E., Chicago City, Minn., assignor of one-half to H. D. Hudson and one-half to M. S. Thurber, Minneapolis, Minn. Poison-distributor. No. 934,591; Sept. 21; Sp. p. 3253; Gaz. vol. 146; p. 567.
- Brandt, H. O., Manchester, England. Method and apparatus for atomizing and spraying oily materials. No. 913,686; Mar. 2; Sp. p. 14; Gaz. vol. 140; p. 5.
- Brandt, J. A., assignor to Simplex Company, Cleveland, Ohio. Gas-lamp. No. 919,312; Apr. 27; Sp. p. 5050; Gaz. vol. 141; p. 877.
- Brandt, N., New York, N. Y. Screen. No. 936,859; Oct. 12; Sp. p. 2625; Gaz. vol. 147; p. 437.
- Brandt, P. and H. E., Chicago City; said H. E. Brandt assignor of one-fourth to H. D. Hudson and one-fourth to M. S. Thurber, Minneapolis, Minn. Poison-distributor. No. 933,155; Sept. 7; Sp. p. 240; Gaz. vol. 146; p. 41.
- Braner, F. W., Troy, Ill. Latch-hook for gates, doors, and the like. No. 932,245; Aug. 24; Sp. p. 5560; Gaz. vol. 145; p. 846.
- Branly, E., and H. Laurent, Paris, France. Safety-screen for safes and strong-rooms. No. 926,385; June 29; Sp. p. 6894; Gaz. vol. 143; p. 1214.
- Brann, G. W. (See Symonds and Brann.)
- Brannon, J. W., Searcy, Ark. Automatic cage-loader and safety device for mines. No. 908,943; Jan. 5; Sp. p. 1042; Gaz. vol. 138; p. 168.
- Branower, B. and G., New York, N. Y. Guide for hemming. No. 909,533; Jan. 12; Sp. p. 2224; Gaz. vol. 138; p. 395.
- Branower, G. (See Branower, B. and G.)
- Branquart, A., *et al.* (See Houze, L., assignor.)
- Branshaw, F. H., Winona, Mich. Carving-fork. No. 929,190; July 27; Sp. p. 5159; Gaz. vol. 144; p. 915.
- Branston, J. H. E., Philadelphia, Pa. Passenger railway-car. No. 938,037; Oct. 26; Sp. p. 5080; Gaz. vol. 147; p. 875.
- Brantingham, A. C., Toledo, Ohio. Control device for sifters. No. 933,055; Sept. 7; Sp. p. 29; Gaz. vol. 146; p. 6.
- Brantingham, A. C., Toledo, Ohio. Control device for sifters. (Reissue.) No. 13,058; Dec. 21; Sp. p. 4734; Gaz. vol. 149; p. 811.
- Brany, A., Alpha, N. J. Manufacturing of artificial stone. No. 934,710; Sept. 21; Sp. p. 3496; Gaz. vol. 146; p. 609.
- Brasche, F., and W. Doelz, Benld, Ill. Automatic device for releasing empty cars from self-dumping mining-cages. No. 929,751; Aug. 3; Sp. p. 247; Gaz. vol. 145; p. 42.
- Brashear, H. W., Pittsburg, Pa. Machine for uncoiling springs. No. 918,121; Apr. 13; Sp. p. 2362; Gaz. vol. 141; p. 423.
- Brashiers, C. K. (See Linton, A. E., assignor.)
- Brasket, T. C. (See Green and Brasket.)
- Brassard, J. B., Holyoke, Mass. Leather-worker's tool. No. 944,660; Dec. 28; Sp. p. 5664; Gaz. vol. 149; p. 983.
- Brat, H., Charlottenburg, Germany. Combined respirator and inhaler. No. 912,532; Feb. 16; Sp. p. 3124; Gaz. vol. 139; p. 561.

*Alphabetical list of patentees—Continued.*

- Bratschie, A., New Castle, Pa. Air-ship. No. 943,732; Dec. 21; Sp. p. 3672; Gaz. vol. 149; p. 638.
- Bratt, A. W. (See Hooper and Bratt.)
- Bratt, T. (See Faulk and Bratt.)
- Brattin, M. E., Oakland, Cal. Combined washtub and heater. No. 933,954; Sept. 14; Sp. p. 2020; Gaz. vol. 146; p. 333.
- Bratton, R. J., Georgetown, Ill. Burial-vault. No. 911,027; Feb. 2; Sp. p. 7; Gaz. vol. 139; p. 4.
- Braunburger, F., Friedenau, near Berlin, assignor to Firm of Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, Germany. Foldable reflex-camera. No. 913,353; Feb. 23; Sp. p. 4801; Gaz. vol. 139; p. 860.
- Braunburger, E., assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Roller-blind for photographic cameras. No. 941,126; Nov. 23; Sp. p. 5920; Gaz. vol. 148; p. 996.
- Braunburger, E., assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Photographic camera. No. 944,595; Dec. 28; Sp. p. 5542; Gaz. vol. 149; p. 961.
- Brauchli, J., Hampton, assignor to Old Dominion Specialty Manufacturing Company, Newport News, Va. Display-holder. No. 939,942; Nov. 9; Sp. p. 3284; Gaz. vol. 148; p. 541.
- Brauchlin, G., Zurich, Switzerland. Apparatus for measuring fabrics. No. 919,313; Apr. 27; Sp. p. 5052; Gaz. vol. 141; p. 877.
- Brauchlin, G., Zurich, Switzerland. Fabric measuring and marking apparatus. No. 919,314; Apr. 27; Sp. p. 5055; Gaz. vol. 141; p. 878.
- Brauer, A., Independence, Mo. Rotary motor. No. 926,846; July 6; Sp. p. 298; Gaz. vol. 144; p. 47.
- Brauer, W. A., North Tonawanda, N. Y. Driving and controlling device. No. 936,298; Oct. 12; Sp. p. 1430; Gaz. vol. 147; p. 248.
- Braun, C. A., Redding, Cal. Watchmaker's instrument. No. 918,821; Apr. 20; Sp. p. 3871; Gaz. vol. 141; p. 683.
- Braun, C. A., Redding, Cal. Watchmaker's instrument. No. 918,822; Apr. 20; Sp. p. 3873; Gaz. vol. 141; p. 683.
- Braun, F., Detroit, Mich. Safety appliance for woodworking machinery. No. 912,799; Feb. 16; Sp. p. 3718; Gaz. vol. 139; p. 654.
- Braun, F. A., assignor to Rapid Account File Company, Lorain, Ohio. Account-book cabinet. No. 923,939; June 8; Sp. p. 1854; Gaz. vol. 143; p. 309.
- Braun, G., Paris, France. Cooling device for explosive-engines. No. 914,109; Mar. 2; Sp. p. 976; Gaz. vol. 140; p. 153.
- Braun, G., Duncan, Nebr. Track-clearer for mowers. No. 925,863; June 22; Sp. p. 5823; Gaz. vol. 143; p. 1008.
- Braun, H., and G. L. Wackerow, Mellette, S. D. Wagon-reach. No. 912,800; Feb. 16; Sp. p. 3720; Gaz. vol. 139; p. 654.
- Braun, H. C. (See Jones and Braun.)
- Braun, L. F. (See Olbon, J. A., assignor.)
- Braun, N. B., administratrix. (See Braun, R. J.)
- Braun, R., Philadelphia, Pa. Can-opener. No. 927,938; July 13; Sp. p. 2582; Gaz. vol. 144; p. 440.
- Braun, R., Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. System of electrical distribution. No. 934,628; June 15; Sp. p. 3309; Gaz. vol. 143; p. 569.
- Braun, R. J., deceased, Berkeley, Cal. N. B. Braun, administratrix. Car-stake. No. 926,045; June 22; Sp. p. 6177; Gaz. vol. 143; p. 1067.
- Braun & Sons, J. (See Braun, W. P. M., assignor.)
- Braun & Sons, J. (See Deck, H., assignor.)
- Braun, W. A., assignor of one-half to F. L. Jones, Fort Wayne, Ind. Electrical sad-iron. No. 941,342; Nov. 23; Sp. p. 6367; Gaz. vol. 148; p. 1065.
- Braun, W. P. M., assignor to J. Braun & Sons, Philadelphia, Pa. Power lawn-mower. No. 941,127; Nov. 23; Sp. p. 5922; Gaz. vol. 148; p. 996.
- Braune, F., New Braunfels, Tex. Nut-lock. No. 936,299; Oct. 12; Sp. p. 1431; Gaz. vol. 147; p. 249.
- Braunlich, H. G., assignor to H. F. Brammer Manufacturing Company, Davenport, Iowa. Operating mechanism for washing-machines. No. 932,534; Aug. 31; Sp. p. 6139; Gaz. vol. 145; p. 1065.
- Braunstein, J. (See Bartos and Braunstein.)
- Braunt, H., South Sioux City, Nebr. Ironing-board. No. 916,989; Apr. 6; Sp. p. 46; Gaz. vol. 141; p. 13.
- Brautigam, A., South Orange, N. J., assignor to A. Heckscher, New York, N. Y. Disintegrating and removing annular salamanders in nodulizing-kilns. No. 936,981; Oct. 12; Sp. p. 2858; Gaz. vol. 147; p. 477.
- Brautigam, A., South Orange, N. J., assignor to A. Heckscher, New York, N. Y. Disintegrating and removing annular salamanders in nodulizing-kilns. (Reissue.) No. 13,062; Dec. 28; Sp. p. 6409; Gaz. vol. 149; p. 1099.
- Braverman, A. S. (See Stewart, W. R. and T. S., assignors.)
- Brawley, R. V. (See Mitchell and Brawley.)
- Bray, A., Leeds, England. Acetylene-burner. No. 908,732; Jan. 5; Sp. p. 645; Gaz. vol. 138; p. 100.
- Bray, A., Leeds, England. Acetylene gas burner. No. 935,735; Oct. 5; Sp. p. 235; Gaz. vol. 147; p. 38.
- Bray, C. A., Cincinnati, Ohio. Apparatus and method for mining. No. 927,939; July 13; Sp. p. 2583; Gaz. vol. 144; p. 440.
- Bray, C. W., assignor to American Sheet & Tin Plate Company, Pittsburg, Pa. Apparatus for rolling tin plates. No. 935,356; Sept. 28; Sp. p. 4800; Gaz. vol. 146; p. 848.
- Bray, C. W., assignor to American Sheet & Tin Plate Company, Pittsburg, Pa. Manufacturing metal sheets. No. 941,850; Nov. 30; Sp. p. 7498; Gaz. vol. 148; p. 1260.
- Bray & Kates. (See Bray, R., assignor.)
- Bray & Kates. (See Bray, T., assignor.)
- Bray, R., assignor to Bray & Kates, Arlington Heights, Ill. Milk-can cover. No. 915,825; Mar. 23; Sp. p. 4480; Gaz. vol. 140; p. 704.
- Bray, R., assignor to Bray & Kates, Arlington Heights, Ill. Milk-can. No. 915,826; Mar. 23; Sp. p. 4481; Gaz. vol. 140; p. 795.
- Bray, R., assignor to Bray & Kates, Arlington Heights, Ill. Milk-can neck and making the same. No. 938,960; Nov. 2; Sp. p. 1111; Gaz. vol. 148; p. 177.
- Bray, T., assignor to Bray & Kates, Arlington Heights, Ill. Milk-can cover. No. 915,931; Mar. 23; Sp. p. 4672; Gaz. vol. 140; p. 829.
- Bray, T. J. (See Shackleford, G. C., assignor.)
- Bray, W. C., Newton, Mass., assignor to Tubular Rivet & Stud Company. Rivet. No. 938,116; Oct. 26; Sp. p. 5253; Gaz. vol. 147; p. 902.
- Braymer, H. E., Independence, Kans. Journal-box for oil-pumping powers. No. 929,544; July 27; Sp. p. 5864; Gaz. vol. 144; p. 1030.
- Braymes, M., Philadelphia, Pa. Rug-hanger. No. 938,117; Oct. 26; Sp. p. 5255; Gaz. vol. 147; p. 902.
- Brayton, G. B., Boston, Mass. Photographer's range-finder. No. 940,504; Nov. 16; Sp. p. 4580; Gaz. vol. 148; p. 764.
- Brazda, T., Amstetten, Austria-Hungary. Preventing the formation of boiler-scale. No. 925,283; June 15; Sp. p. 4621; Gaz. vol. 143; p. 789.
- Brazelle, B., Kirkwood, assignor of one-half to H. Leschen, St. Louis, Mo. Manufacturing gas. No. 928,103; July 13; Sp. p. 2888; Gaz. vol. 144; p. 493.
- Brazelton, J. F., *et al.* (See Dodson, J. H., assignor.)
- Breakspear, F. C., Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Bag for golf-clubs. No. 936,698; Oct. 12; Sp. p. 2314; Gaz. vol. 147; p. 384.
- Bread, L. H., Thibodaux, La. Cane-cutter. No. 936,404; Oct. 12; Sp. p. 1676; Gaz. vol. 147; p. 284.
- Bream, B., Taylor, N. D. Match-box. No. 917,708; Apr. 6; Sp. p. 1451; Gaz. vol. 141; p. 254.
- Brecheisen, A., Kansas City, Mo. Animal-trap. No. 942,481; Dec. 7; Sp. p. 951; Gaz. vol. 149; p. 153.
- Breckenridge, J. G., assignor to Ridgely Trimmer Company, Springfield, Ohio. Paper-trimmer. No. 908,540; Jan. 5; Sp. p. 230; Gaz. vol. 138; p. 39.
- Breckenridge, W. D., Waco, assignor of one-half to J. M. Powers, Jr., Houston, Tex. Oil-burner. No. 920,818; May 4; Sp. p. 1473; Gaz. vol. 142; p. 238.
- Breckenridge, W. D., Waco, assignor of one-half to J. M. Powers, Jr., Houston, Tex. Oil-burner. No. 920,819; May 4; Sp. p. 1474; Gaz. vol. 142; p. 238.
- Breda, A. J., Chicago, Ill. Means for preventing congestion in car-aisles. No. 927,707; July 13; Sp. p. 2093; Gaz. vol. 144; p. 363.
- Brede, M. H., Minneapolis, Minn. Tool-rack. No. 944,312; Dec. 28; Sp. p. 4888; Gaz. vol. 149; p. 861.
- Bredsdorff, T., Flensburg, Germany. Buoy for saving life and for communicating between a ship and other objects or the shore. No. 915,730; Mar. 23; Sp. p. 4304; Gaz. vol. 140; p. 765.
- Breece, J. T., Portsmouth, Ohio. Bending wood. No. 938,366; Oct. 26; Sp. p. 5818; Gaz. vol. 147; p. 987.
- Breck, B., Vevay, Ind. Reversing mechanism for engines. No. 942,998; Dec. 14; Sp. p. 2090; Gaz. vol. 149; p. 359.
- Breed, E. Z., *et al.* (See Souder, H. W., assignor.)
- Breeden, H., Washington, D. C. Sap-receiving apron and receptacle. No. 920,255; May 4; Sp. p. 339; Gaz. vol. 142; p. 54.
- Breeding, L. N. (See Hansen, C., assignor.)
- Breedlove, J. W., Muldrow, Okla. Meat-holding device. No. 943,910; Dec. 21; Sp. p. 4041; Gaz. vol. 149; p. 700.
- Breen, C. W., San Juan Bautista, Cal. Hook and eye. No. 908,733; Jan. 5; Sp. p. 645; Gaz. vol. 138; p. 101.
- Breeze, G., assignor to Breeze Motor Manufacturing Company, Newark, N. J. Carburetor for hydrocarbon-engines. No. 913,354; Feb. 23; Sp. p. 4803; Gaz. vol. 139; p. 861.
- Breeze Motor Manufacturing Company. (See Breeze, G., assignor.)
- Breeze, N. M., *et al.* (See Rouse, G. S., assignor.)
- Brehm, P. P. (See Mallonee, Dannenberg, and Brehm.)
- Breidert, G. C., Chicago, Ill. Car-ventilator. No. 923,241; June 1; Sp. p. 248; Gaz. vol. 143; p. 41.
- Breining, C. P., Hancock, Md. Combined crayon, lumber-gage, and tally-pencil. No. 942,771; Dec. 7; Sp. p. 1528; Gaz. vol. 149; p. 251.
- Breister, W. W., *et al.* (See Burns, H. B., assignor.)



*Alphabetical list of patentees—Continued.*

- Breitmeyer, C., Union Hill, N. J. Combination powder-bag and cup. No. 927,826; July 13; Sp. p. 2334; Gaz. vol. 144; p. 402.
- Brelsford, J. E. (See Whitcomb, S., assignor.)
- Brem, J. W., *et al.* (See Anderson, J., assignor.)
- Bremer, I. M., New York, N. Y. Padlock. No. 943,379; Dec. 14; Sp. p. 2895; Gaz. vol. 149; p. 487.
- Bremer, O. A., Burlington, Iowa. Card-holder. No. 936,756; Oct. 12; Sp. p. 2419; Gaz. vol. 147; p. 403.
- Breneman, H. N., Milwaukee, Wis. Support for razor-strops. No. 925,747; June 22; Sp. p. 5555; Gaz. vol. 143; p. 968.
- Brening, C. E. (See Limbert, S. H., assignor.)
- Brenizer, O. W., Philadelphia, Pa., assignor to American Fruit Machinery Co. Abrading-machine. No. 922,382; May 18; Sp. p. 4681; Gaz. vol. 142; p. 812.
- Brenizer, O. W., assignor to one-third to J. Franklin and one-third to C. G. Wilfong, Philadelphia, Pa. Trolley. No. 937,761; Oct. 26; Sp. p. 4507; Gaz. vol. 147; p. 782.
- Brennan, D., Jr. (See Williamson and Brennan.)
- Brennan, F. P., assignor to one-half to A. Rombout, Chicago, Ill. Oil-can. No. 909,747; Jan. 12; Sp. p. 2652; Gaz. vol. 138; p. 468.
- Brennan, H. J. (See Mathis and Brennan.)
- Brennan, J. J., *et al.* (See Folsom, E. C., assignor.)
- Brennan, J. P., Centraia, Pa. Trolley-polish guide. No. 927,708; July 13; Sp. p. 2095; Gaz. vol. 144; p. 364.
- Brennan, J. S., Milwaukee, Wis. Float-valve. No. 918,272; Apr. 13; Sp. p. 2667; Gaz. vol. 141; p. 473.
- Brennan, T., New York, N. Y. Feed-bag. No. 939,971; Nov. 16; Sp. p. 3347; Gaz. vol. 148; p. 579.
- Brennan, T. F. (See Mullen and Brennan.)
- Brennan, W. J., Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Work-rest. No. 909,143; Jan. 12; Sp. p. 1478; Gaz. vol. 138; p. 269.
- Brennan, W. J., Swampscott, assignor to T. G. Plant, Boston, Mass. Wax-thread-sewing-machine attachment. No. 935,620; Sept. 28; Sp. p. 5332; Gaz. vol. 146; p. 935.
- Brenneis, L., Oxnard, Cal. Beet-plow. No. 928,736; July 20; Sp. p. 4223; Gaz. vol. 144; p. 735.
- Brennen, W. J. (See Barwick and Brennen.)
- Brenner, G., assignor to one-half to A. A. Weinel, Belleville, Ill. Mop-wringer. No. 910,779; Jan. 26; Sp. p. 4812; Gaz. vol. 138; p. 870.
- Brenner, G. F. (See Moody, C. E., assignor.)
- Brenner, J., assignor to one-half to J. W. Clark, Philadelphia, Pa. Belt-coupling. No. 914,634; Mar. 9; Sp. p. 2052; Gaz. vol. 140; p. 349.
- Brenner, T. A., Reedsville, Wis. Knockdown box. No. 940,122; Nov. 16; Sp. p. 3718; Gaz. vol. 148; p. 633.
- Brenner, W. H. C., Poughkeepsie, N. Y. Controlling device for elevator-brakes. No. 916,835; Mar. 30; Sp. p. 6408; Gaz. vol. 140; p. 1146.
- Brenske, J., Hustisford, Wis. Apparatus for manufacturing cheese. No. 933,656; Sept. 7; Sp. p. 32; Gaz. vol. 146; p. 7.
- Brenske, J., Hustisford, Wis. Faucet for cheese apparatus. No. 941,694; Nov. 30; Sp. p. 7140; Gaz. vol. 148; p. 1205.
- Brent, C., Brandon, Manitoba, Canada. Low-water alarm for steam-boilers. No. 928,933; July 27; Sp. p. 4620; Gaz. vol. 144; p. 829.
- Brent, C., Brandon, Manitoba, Canada. Contact device. No. 928,934; July 27; Sp. p. 4621; Gaz. vol. 144; p. 829.
- Brent, C., Brandon, Manitoba, Canada. Feed-water regulator. No. 939,889; Nov. 9; Sp. p. 3163; Gaz. vol. 148; p. 521.
- Brent, J. T., Second, assignor to J. B. Southard, Cold Spring, N. Y., and Bergen Foundry, Jersey City, N. J. Molding-machine. No. 913,194; Feb. 23; Sp. p. 4479; Gaz. vol. 139; p. 807.
- Brenzinger, J., assignor to Max Ams Machine Company, Mount Vernon, N. Y. Forming covers for sheet-metal cans. (Reissue.) No. 12,959; May 25; Sp. p. 6278; Gaz. vol. 142; p. 1086.
- Brenzinger, J., assignor, by mesne assignments, to Max Ams Machine Company, Mount Vernon, N. Y. Flanging-machine. No. 936,598; Oct. 12; Sp. p. 2100; Gaz. vol. 147; p. 349.
- Brenzinger, J., assignor to Max Ams Machine Company, Mount Vernon, N. Y. Vacuum-sealing machine for containers. No. 940,123; Nov. 16; Sp. p. 3720; Gaz. vol. 148; p. 634.
- Brenzinger, J., Mount Vernon, N. Y., assignor to Sanitary Can Machinery Company, Ellsworth, Me. Can-heading machine. No. 941,765; Nov. 30; Sp. p. 7272; Gaz. vol. 148; p. 1226.
- Bresee, R. A., *et al.* (See Jensen, P., assignor.)
- Breslau, M., Charlottenburg, assignor to Firm of W. Graaff & Compagnie Ges. mit beschr. Haftung, Berlin, Germany. Frost-proof fire-extinguishing liquid. No. 914,233; Mar. 2; Sp. p. 1237; Gaz. vol. 140; p. 193.
- Bresnan, W. J., Washington, D. C. Adjustable film-roll holder. No. 909,534; Jan. 12; Sp. p. 2226; Gaz. vol. 138; p. 395.
- Bresser, H., Toledo, Ohio. Block-mold. No. 908,944; Jan. 5; Sp. p. 1044; Gaz. vol. 138; p. 168.
- Breth, R. L., New Washington, and P. M. Campbell, McGee's Mills, Pa. Valve. No. 923,808; June 8; Sp. p. 1617; Gaz. vol. 143; p. 267.
- Brethouwer, T. A., Prairie View, Kans. Attachment for buggy-tops. No. 930,641; Aug. 10; Sp. p. 2097; Gaz. vol. 145; p. 366.
- Bretney, H. R., assignor to J. Woher, J. T. Dickson, and J. S. Cruse, Indianapolis, Ind. Alarm apparatus. No. 942,433; Dec. 7; Sp. p. 829; Gaz. vol. 149; p. 136.
- Bretschneider, A., Halle-on-the-Saale, Germany. Article-counter. No. 940,851; Nov. 23; Sp. p. 5339; Gaz. vol. 148; p. 905.
- Brett, J. D., Cordele, Ga. Axle journal and hub. No. 921,073; May 11; Sp. p. 2006; Gaz. vol. 142; p. 353.
- Brett, T. C., Red Oak, Iowa. Train-pipe coupling. No. 944,941; Dec. 28; Sp. p. 6260; Gaz. vol. 149; p. 1076.
- Brettell, O. C. G., Wilkinsburg, and J. F. Bailey, Edgewood, Pa. Urinal. No. 935,890; Oct. 5; Sp. p. 623; Gaz. vol. 147; p. 90.
- Brettell, W. G. (See Webb, Brettell, and Adamson.)
- Bretz, F. H., New Bloomfield, Pa. Cider press and separator. No. 931,728; Aug. 24; Sp. p. 4461; Gaz. vol. 145; p. 777.
- Bretz, H. A., assignor to Federal Electric Company, Chicago, Ill. Incandescent-lamp socket. No. 938,038; Oct. 26; Sp. p. 5083; Gaz. vol. 147; p. 875.
- Breuchaud, J., Yonkers, assignor to Underpinning Company, New York, N. Y. Construction of supports for building-walls, &c. No. 944,476; Dec. 28; Sp. p. 5246; Gaz. vol. 149; p. 919.
- Brewer, A. G., assignor to H. and R. W. Harwood, Natick, Mass. Ball winding and rolling machine. No. 923,762; June 1; Sp. p. 1431; Gaz. vol. 143; p. 222.
- Brewer, C., New York, N. Y. Receptacle for baby-cloths. No. 938,961; Nov. 2; Sp. p. 1113; Gaz. vol. 148; p. 178.
- Brewer, C., New York, N. Y. Receptacle for baby-cloths. No. 944,071; Dec. 21; Sp. p. 4780; Gaz. vol. 149; p. 755.
- Brewer, H. J., New York, N. Y. Buffing-machine. No. 916,665; Mar. 30; Sp. p. 6108; Gaz. vol. 140; p. 1095.
- Brewer, J. A., Jackson, Mich., assignor to Electric Shoe Polisher Company, Jersey City, N. J. Polishing-brush. No. 936,699; Oct. 12; Sp. p. 2316; Gaz. vol. 147; p. 384.
- Brewer, J. G., Raceland, La. Mechanical filter. No. 920,909; May 11; Sp. p. 1669; Gaz. vol. 142; p. 298.
- Brewer, J. J. (See Maxwell and Brewer.)
- Brewer, J. W., Cedartown, Ga. Shade-roller frame. No. 930,143; Aug. 3; Sp. p. 1102; Gaz. vol. 145; p. 178.
- Brewer, R. L., Camden, Ark. Railway-switch. No. 922,661; May 25; Sp. p. 5280; Gaz. vol. 142; p. 934.
- Brewer, W., London, England, assignor to Union Switch & Signal Company, Swissvale, Pa. Time-limit train-stop. No. 928,355; July 20; Sp. p. 3462; Gaz. vol. 144; p. 611.
- Brewery and Distillery Equipment Corporation. (See Spikes, R. B., assignor.)
- Brewington, H. S., Baltimore, Md. Bottle-capping machine. No. 930,144; Aug. 3; Sp. p. 1104; Gaz. vol. 145; p. 178.
- Brewington, H. S., Baltimore, Md. Bottle-capping machine. No. 930,145; Aug. 3; Sp. p. 1107; Gaz. vol. 145; p. 179.
- Brewington, H. S., Baltimore, Md. Bottle-capping machine. No. 933,057; Sept. 7; Sp. p. 35; Gaz. vol. 146; p. 7.
- Brewington, H. S., Baltimore, Md. Paper container. No. 935,959; Oct. 5; Sp. p. 765; Gaz. vol. 147; p. 113.
- Brewington, H. S., Baltimore, Md. Paper bottle and other container. No. 937,141; Oct. 19; Sp. p. 3200; Gaz. vol. 147; p. 560.
- Brewington, H. S., assignor to one-half to D. F. Mallory, Baltimore, Md. Automatic machine for attaching postage-stamps. No. 938,820; Nov. 2; Sp. p. 793; Gaz. vol. 148; p. 128.
- Brewington, H. S., assignor to one-half to R. B. Tippet, Baltimore, Md. Candy-pulling machine. No. 941,610; Nov. 30; Sp. p. 6954; Gaz. vol. 148; p. 1176.
- Brewster, B. F., Burrton, Kans., assignor to two-thirds to W. S. Wilson, Fort Worth, Tex. Machine for assorting, stacking, and counting coins. No. 918,273; Apr. 13; Sp. p. 2668; Gaz. vol. 141; p. 473.
- Brewster, C. U., Oakland, Cal. Automatic ruling-machine. No. 932,676; Aug. 31; Sp. p. 6461; Gaz. vol. 145; p. 1114.
- Brewster, J. N., New York, N. Y. Vehicle-spring. No. 931,990; Aug. 24; Sp. p. 5030; Gaz. vol. 145; p. 862.
- Brey, C. J., Louisville, Ky. Top-jointer for band-saws. No. 932,752; Aug. 31; Sp. p. 6614; Gaz. vol. 145; p. 1139.
- Brey, J., Göggingen, near Augsburg, Germany. Plow. No. 936,599; Oct. 12; Sp. p. 2108; Gaz. vol. 147; p. 350.
- Breyer, L., Philadelphia, Pa. Coffee-roaster. No. 934,137; Sept. 14; Sp. p. 2397; Gaz. vol. 146; p. 392.
- Breyer, T. E., Waukegan, Ill. Manufacturing cattle food. No. 920,108; May 4; Sp. p. 15; Gaz. vol. 142; p. 4.
- Briailles, G. C. de, Paris, France. Manufacture, concentration, and simultaneous purification of sulfuric acid. No. 928,844; July 20; Sp. p. 4426; Gaz. vol. 144; p. 771.
- Briant, D., Glen Flora, Wis. Sight. No. 924,729; June 15; Sp. p. 3514; Gaz. vol. 143; p. 604.
- Brichaux, A., Brussels, Belgium, assignor to Solvay Process Company, Syracuse, N. Y. Electrolytic apparatus. No. 937,918; Oct. 26; Sp. p. 4833; Gaz. vol. 147; p. 835.
- Brick, A., Vienna, Austria-Hungary. Manufacture of a disinfectant. No. 929,383; July 27; Sp. p. 5587; Gaz. vol. 144; p. 980.

*Alphabetical list of patentees—Continued.*

- Bricken, J., assignor of one-third to H. Marks, Chicago, Ill., and one-third to R. Marks, Des Moines, Iowa. Calculating-machine. No. 938,550; Nov. 2; Sp. p. 248; Gaz. vol. 148; p. 37.
- Bricken, J., assignor of one-third to H. Marks, Chicago, Ill., and one-third to R. Marks, Des Moines, Iowa. Calculating-machine. No. 943,514; Dec. 14; Sp. p. 3185; Gaz. vol. 149; p. 535.
- Bricker, E. J., assignor of one-third to R. Babler, Minneapolis, Minn. Bottle-stopper. No. 936,515; Oct. 12; Sp. p. 1940; Gaz. vol. 147; p. 320.
- Bricker, M. L., Cleveland, Ohio. Charge for use in treating iron and steel. No. 909,864; Jan. 19; Sp. p. 2879; Gaz. vol. 138; p. 537.
- Brickey, C. P., assignor of one-half to H. P. Lumpkin, P. D. Wright, and R. A. Snow, La Fayette, Ga. Ellipsograph. No. 922,560; May 25; Sp. p. 5077; Gaz. vol. 142; p. 900.
- Briddell, C. D., Marion Station, Md. Transplanter. No. 915,546; Mar. 16; Sp. p. 3887; Gaz. vol. 140; p. 674.
- Bridenbaugh, E. H. (See Ohmer and Bridenbaugh.)
- Bridge & Beach Manufacturing Company. (See Hoener and Andreas, assignors.)
- Bridge, J. H., Philadelphia, Pa. Apparatus for electrically treating air and other gases. No. 935,457; Sept. 28; Sp. p. 4982; Gaz. vol. 146; p. 880.
- Bridgeport Brass Company. (See Stapley, W. S., assignor.)
- Bridgeport Hardware Manufacturing Corporation. (See Hobbs, W. F., assignor.)
- Bridgeport Metal Goods Manufacturing Company. (See Parker, E. D., assignor.)
- Bridges, D. M., et al. (See Seebree, W. T., assignor.)
- Bridges, E. P., Wewoka, Okla. Bench clamp or vise. No. 923,323; June 1; Sp. p. 496; Gaz. vol. 143; p. 71.
- Bridges, H. P., et al. (See Herr, C. H., assignor.)
- Bridges, I. L., Powersville, Mo. Burglar-proof lock. No. 943,647; Dec. 21; Sp. p. 3510; Gaz. vol. 149; p. 611.
- Bridges, W. C., Wapello, Iowa. Lock for side and back combs. No. 931,841; Aug. 24; Sp. p. 4690; Gaz. vol. 145; p. 813.
- Bridges, W. C., St. Louis, Mo., assignor to Sanitary Spittoon Company. Cuspidor. No. 920,722; May 4; Sp. p. 1289; Gaz. vol. 142; p. 207.
- Bridgewater, A. M., assignor of one-third to W. C. Lyons and one-third to C. E. Shuffelbarger, Denver, Colo. Mail-catcher. No. 943,336; Dec. 14; Sp. p. 2804; Gaz. vol. 149; p. 473.
- Brigman, V., London, England. Swinging berth for ships. No. 943,380; Dec. 14; Sp. p. 2897; Gaz. vol. 149; p. 487.
- Briede, O., Benrath, Germany. Manufacture of tubes. No. 914,332; Mar. 2; Sp. p. 1438; Gaz. vol. 140; p. 223.
- Briede, O., Benrath, Germany. Manufacture of tubes. No. 914,333; Mar. 2; Sp. p. 1439; Gaz. vol. 140; p. 223.
- Briegleb, Hansen & Co. (See Thoma, D., assignor.)
- Brierley, W., New Malden, England. Instrument for drawing spirals and circles. No. 925,748; June 22; Sp. p. 5556; Gaz. vol. 143; p. 969.
- Brigance, A. O., Navasota, Tex. Fireproof covering. No. 913,464; Feb. 23; Sp. p. 5027; Gaz. vol. 139; p. 898.
- Bridgen, A., Albertville, Ala. Cultivator. No. 914,788; Mar. 9; Sp. p. 2385; Gaz. vol. 140; p. 400.
- Bridgen, A., Albertville, Ala. Cultivator. No. 930,830; Aug. 10; Sp. p. 2477; Gaz. vol. 145; p. 428.
- Bridgen, G. G., Cypress, Ala. Spring-tooth cultivator. No. 944,770; Dec. 28; Sp. p. 5909; Gaz. vol. 149; p. 1019.
- Brigel, L. A., Cheviot, Ohio. Hoop-keeper. No. 929,912; Aug. 3; Sp. p. 624; Gaz. vol. 145; p. 98.
- Brigel, L. A., Cincinnati, Ohio. Bowling-alley pin-setting mechanism. No. 941,611; Nov. 30; Sp. p. 6958; Gaz. vol. 148; p. 1177.
- Briggs, A. J., assignor to Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 944,229; Dec. 21; Sp. p. 4694; Gaz. vol. 149; p. 804.
- Briggs, B. B., Creston, Iowa. Trussed ladder. No. 934,276; Sept. 14; Sp. p. 2643; Gaz. vol. 146; p. 439.
- Briggs, C. C. (See Durkee and Briggs.)
- Briggs, D., New York, assignor to Wyckoff, Seamans and Benedict, Ilion, N. Y. Type-writing machine. No. 915,547; Mar. 16; Sp. p. 3889; Gaz. vol. 140; p. 674.
- Briggs, D., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 915,732; Mar. 23; Sp. p. 4308; Gaz. vol. 140; p. 766.
- Briggs, D., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 916,836; Mar. 30; Sp. p. 6410; Gaz. vol. 140; p. 1146.
- Briggs, D., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 916,990; Apr. 6; Sp. p. 47; Gaz. vol. 141; p. 13.
- Briggs, D., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 930,642; Aug. 10; Sp. p. 2099; Gaz. vol. 145; p. 366.
- Briggs, D., Brooklyn, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 916,099; Mar. 23; Sp. p. 4989; Gaz. vol. 140; p. 884.
- Briggs, F. H., Painesville, assignor to American Dynalite Company, Cleveland, Ohio. Explosive compound. No. 934,990; Sept. 28; Sp. p. 4053; Gaz. vol. 146; p. 728.
- Briggs, F. R. (See Butler, Briggs, and Clark.)
- Briggs, G. A. H., Willard, Ga. Fire-screen. No. 920,423; May 4; Sp. p. 685; Gaz. vol. 142; p. 108.
- Briggs, G. E. (See Mayo and Houlehan, assignors.)
- Briggs, H., Hasbrouck Heights, N. J. Molding concrete blocks. No. 916,260; Mar. 23; Sp. p. 5288; Gaz. vol. 140; p. 936.
- Briggs, J. (See Haworth, Briggs, and Ayrey.)
- Briggs, J. E., Waterloo, Iowa. Street-cleaning machine. No. 926,723; July 6; Sp. p. 7; Gaz. vol. 144; p. 4.
- Briggs, J. E., Waterloo, Iowa. Dumping-wagon. No. 926,724; July 6; Sp. p. 10; Gaz. vol. 144; p. 4.
- Briggs, J. F. (See Cross and Briggs.)
- Briggs, J. H., Headingley, Leeds, England. Tramway-rail. No. 944,982; Dec. 28; Sp. p. 6350; Gaz. vol. 149; p. 1089.
- Briggs, J. W., Racine, Wis. Book-mark. No. 921,356; May 11; Sp. p. 2604; Gaz. vol. 142; p. 448.
- Briggs, M., Llanelly, England. Valve-gear and ignition apparatus for internal-combustion engines. No. 927,484; July 13; Sp. p. 1601; Gaz. vol. 144; p. 288.
- Briggs, W., Manchester, England. Apparatus for printing transfer-designs on paper in two or more colors or mediums. No. 923,242; June 1; Sp. p. 249; Gaz. vol. 143; p. 42.
- Briggs, W., Brooklyn, N. Y. Valve-operating float. No. 944,477; Dec. 28; Sp. p. 5249; Gaz. vol. 149; p. 919.
- Briggs, W. C., Winston Salem, assignor to National Stamp Vending Machine Company, Fayetteville, N. C. Vending-machine. No. 917,997; Apr. 13; Sp. p. 2115; Gaz. vol. 141; p. 380.
- Briggs, W. C., Winston Salem, assignor to National Stamp Vending Machine Company, Incorporated, Fayetteville, N. C. Vending-machine. No. 918,416; Apr. 13; Sp. p. 2942; Gaz. vol. 141; p. 519.
- Briggs, W. F., Bristol, R. I. Clothes-line prop. No. 936,982; Oct. 12; Sp. p. 2860; Gaz. vol. 147; p. 477.
- Brigham, L., Decatur, Mich. Cuff-holder. No. 925,449; June 22; Sp. p. 4943; Gaz. vol. 143; p. 873.
- Brigham, L. K., Brookline, Mass. Curtain-rod fixture. No. 935,357; Sept. 28; Sp. p. 4801; Gaz. vol. 146; p. 848.
- Brigham, M. E., Philadelphia, Pa. Oiling device. No. 915,731; Mar. 23; Sp. p. 4305; Gaz. vol. 140; p. 766.
- Bright, W. H., Hampstead, Md. Water-pipe. No. 926,092; June 29; Sp. p. 6295; Gaz. vol. 143; p. 1118.
- Brightbill, D., Lebanon, Pa. Sad-iron. No. 929,545; July 27; Sp. p. 5865; Gaz. vol. 144; p. 1030.
- Brightbill, D., Lebanon, Pa. Sausage-stuffing machine. No. 932,372; Aug. 24; Sp. p. 5787; Gaz. vol. 145; p. 988.
- Brightful, E. G., Pittsburg, Pa. Nut-lock. No. 928,845; July 20; Sp. p. 4427; Gaz. vol. 144; p. 771.
- Brightman, F. E., assignor to Brightman Hammered Nut & Manufacturing Company, Sandusky, Ohio. Automatic metal-working machine. No. 937,762; Oct. 26; Sp. p. 4508; Gaz. vol. 147; p. 782.
- Brightman Hammered Nut & Manufacturing Company. (See Brightman, F. E., assignor.)
- Brile, A., Encampment, Wyo. Miner's lamp. No. 925,077; June 15; Sp. p. 4231; Gaz. vol. 143; p. 721.
- Brill, A. O., Zanesville, Ohio. Suspension car-jack. No. 909,535; Jan. 12; Sp. p. 2228; Gaz. vol. 138; p. 396.
- Brill, A. C., Oberursel, Germany. Leather-staking machine. No. 941,851; Nov. 30; Sp. p. 7499; Gaz. vol. 148; p. 1260.
- Brill, J. A. (See Henry, F. H., assignor.)
- Brilliant Light Company. (See Curtis, F. A., assignor.)
- Brilliant, M. L., San Francisco, Cal. Davenport. No. 924,884; June 15; Sp. p. 3842; Gaz. vol. 143; p. 656.
- Brilliant, M. L., San Francisco, Cal. Couch. No. 929,546; July 27; Sp. p. 5868; Gaz. vol. 144; p. 1031.
- Brillié, A. E., assignor to Société anonyme des Automobiles Eugene Brillié, Paris, France. Motor-vehicle with three axes. No. 915,733; Mar. 23; Sp. p. 4312; Gaz. vol. 140; p. 766.
- Brimmer, E. (See De Bord, J. B., assignor.)
- Brinckerhoff, A. S. (See Brown and Brinckerhoff.)
- Brinckerhoff, F. M., assignor of two-thirds to H. Hazelton and L. B. Stillwell, New York, N. Y. Passenger-car construction. No. 909,844; Jan. 12; Sp. p. 2830; Gaz. vol. 138; p. 499.
- Brinckmann, F. W. E., Jersey City, N. J. Quoin. No. 916,991; Apr. 6; Sp. p. 52; Gaz. vol. 141; p. 13.
- Brindley, G. F., Niagara Falls, Ontario, Canada, assignor to Roessler & Hasslacher Chemical Company. Composition of matter for generating hydrogen. No. 909,536; Jan. 12; Sp. p. 2230; Gaz. vol. 138; p. 396.
- Brindley, G. F., San Francisco, Cal., and P. M. Bennie, Niagara Falls, N. Y. Composition of matter for manufacturing hydrogen gas. No. 934,036; Sept. 14; Sp. p. 2164; Gaz. vol. 146; p. 358.
- Brindley, Z. T., et al. (See Rickert, A. A., assignor.)



*Alphabetical list of patentees—Continued.*

- Brinegar, C. D. (See Wiley, W. S., assignor.)
- Briney, C. E., Coraopolis, Pa. Apparatus for removing ore-dust from furnace-gases. No. 914,696; Mar. 9; Sp. p. 2200; Gaz. vol. 140; p. 369.
- Brink, F., Hartford, Conn. Surface-indicator. No. 928,492; July 20; Sp. p. 3723; Gaz. vol. 144; p. 655.
- Brinker, H., Hamilton, Ohio. Mold for closed cylinders. No. 911,372; Feb. 2; Sp. p. 680; Gaz. vol. 139; p. 117.
- Brinkman, L. H., assignor to Whitlock Coil Pipe Company, West Hartford, Conn. Annular burner. No. 911,373; Feb. 2; Sp. p. 684; Gaz. vol. 139; p. 117.
- Brinkoeter, A., Floresville, Tex. Planter. No. 930,831; Aug. 10; Sp. p. 2480; Gaz. vol. 145; p. 429.
- Brinton, D. C. (See Rood, C. W., assignor.)
- Brinton, C. C., Stourport, England. Tuft-yarn carrier for pile-fabric looms. No. 942,999; Dec. 14; Sp. p. 2092; Gaz. vol. 149; p. 359.
- Brion, A. E. (See Price, A. M., assignor.)
- Brissy, C. T. De, Ottawa, Ontario, Canada. Printer's chase. No. 913,946; Mar. 2; Sp. p. 603; Gaz. vol. 140; p. 96.
- Brisbin, G. L., Buffalo, N. Y. Guard for lamp-bulbs. No. 924,312; June 8; Sp. p. 2665; Gaz. vol. 143; p. 434.
- Briscoe Manufacturing Company. (See Kinnucan, A. J., assignor.)
- Brislin, P. J., Upper Lehigh, Pa. Horseshoe. No. 914,015; Mar. 2; Sp. p. 786; Gaz. vol. 140; p. 121.
- Brissenden, W. W., assignor to National Steam Specialty Company, Chicago, Ill. Pressure-indicator. No. 916,261; Mar. 23; Sp. p. 5290; Gaz. vol. 140; p. 936.
- Bristol Brass Company. (See Holley, J. R., assignor.)
- Bristol Brass Company. (See Holley and Root, assignors.)
- Bristol Company. (See Bristol, W. H., assignor.)
- Bristol, M. L. (See Keith and Bristol.)
- Bristol, W. H., Waterbury, Conn. Speed indicating or recording device. No. 939,209; Nov. 9; Sp. p. 1634; Gaz. vol. 148; p. 288.
- Bristol, W. H., assignor to Bristol Company, Waterbury, Conn. Recording instrument. No. 918,274; Apr. 13; Sp. p. 2677; Gaz. vol. 141; p. 473.
- Bristol, W. H., assignor to Bristol Company, Waterbury, Conn. Radius-averaging instrument. No. 938,962; Nov. 2; Sp. p. 1114; Gaz. vol. 148; p. 178.
- Bristow, F., East Orange, N. J. Letter and document distributor. No. 933,156; Sept. 7; Sp. p. 242; Gaz. vol. 146; p. 42.
- Bristow, G. W., and G. O. Doty, Guntown, Miss. Plow. No. 943,859; Dec. 21; Sp. p. 3923; Gaz. vol. 149; p. 683.
- Bristow, J. A. (See Jackson and Bristow.)
- Bristow, J. B., Monroe City, Mo. Saw-gunmer. No. 932,677; Aug. 31; Sp. p. 6465; Gaz. vol. 145; p. 1115.
- Bristow, S., Topeka, Kans. Game apparatus. No. 927,106; July 6; Sp. p. 858; Gaz. vol. 144; p. 137.
- British Automatic Aerators Limited. (See Pearce, H., assignor.)
- British Cyanides Company. (See Chance, K. M., assignor.)
- British Hosiery & Electrolytic Bleaching Co. (See Thorp, E. L., assignor.)
- British Stone and Marble Company. (See Thom, T. M., assignor.)
- Britt, F. C., Middleport, N. Y. Bean-separator. No. 941,305; Nov. 23; Sp. p. 6307; Gaz. vol. 148; p. 1055.
- Brittain, E. H., Prairie View, Tex. Level. No. 940,671; Nov. 23; Sp. p. 4937; Gaz. vol. 148; p. 844.
- Britting, E. C., Germania, Pa. Reversible window-shade carrier. No. 934,790; Sept. 21; Sp. p. 3656; Gaz. vol. 146; p. 635.
- Britton, E. H., *et al.* (See Weiss, G. F., assignor.)
- Britton, G. W., Camden, N. J. Combined cigar lighter and cutter. No. 942,434; Dec. 7; Sp. p. 833; Gaz. vol. 149; p. 137.
- Britton, H. A., Springfield, Ill. Convertible chair. No. 925,558; June 22; Sp. p. 5148; Gaz. vol. 143; p. 908.
- Britz, J. A. (See Funk, C. L., assignor.)
- Broadbelt, D., New York, N. Y. Steam-heating system. No. 935,960; Oct. 5; Sp. p. 766; Gaz. vol. 147; p. 114.
- Broadberry, A. E., London, England. Gas lighting and extinguishing apparatus. No. 942,772; Dec. 7; Sp. p. 1529; Gaz. vol. 149; p. 251.
- Broadbooks, P., Batavia, N. Y. Pliers. No. 943,381; Dec. 14; Sp. p. 2899; Gaz. vol. 149; p. 488.
- Broadbooks, P., Batavia, N. Y. Hoof-parer. No. 943,382; Dec. 14; Sp. p. 2901; Gaz. vol. 149; p. 488.
- Broadhurst, F. K., and O. R. Rand, Smithfield, N. C. Mattress-protector. No. 920,256; May 4; Sp. p. 341; Gaz. vol. 142; p. 54.
- Broadwater, D. B., assignor of four-tenths to A. M. Downs, Clayton, N. J. Railway-switch. No. 924,629; June 15; Sp. p. 3312; Gaz. vol. 143; p. 670.
- Broadwater, L. H., Findlay, Ohio, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Apparatus for firing explosives by percussion-caps. No. 921,670; May 18; Sp. p. 3269; Gaz. vol. 142; p. 531.
- Broadwater, L. H., Findlay, Ohio, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Apparatus for firing explosives in wells. No. 941,852; Nov. 30; Sp. p. 7501; Gaz. vol. 148; p. 1261.
- Broadwater, L. H., Findlay, Ohio, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Apparatus for firing explosives in wells. No. 943,383; Dec. 14; Sp. p. 2902; Gaz. vol. 149; p. 489.
- Broadwell, E. C., and J. A. Lyons, Chicago, Ill. Lamp. No. 929,280; July 27; Sp. p. 5359; Gaz. vol. 144; p. 943.
- Broberg, W., Daggett, Mich. Mail-box. No. 936,215; Oct. 5; Sp. p. 1274; Gaz. vol. 147; p. 194.
- Bröchner-Larsen, A. S., and O. P. Krogh, Copenhagen, Denmark. Locking mechanism for railway-points. No. 925,800; June 22; Sp. p. 5695; Gaz. vol. 143; p. 987.
- Brock, A. E., Detroit, assignor of one-half to H. P. Foglesang, Springport, Mich. Elevated transportation system. No. 922,662; May 25; Sp. p. 5281; Gaz. vol. 142; p. 934.
- Brock, F. (See Etwell, T., assignor.)
- Brock, M., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Nailing apparatus. No. 919,533; Apr. 27; Sp. p. 5540; Gaz. vol. 141; p. 952.
- Brocke, G., Allegheny, Pa. Valve. No. 916,262; Mar. 23; Sp. p. 5292; Gaz. vol. 140; p. 936.
- Brockett, B. W., Cleveland, Ohio, assignor, by mesne assignments, to Ross Gear and Tool Company, La Fayette, Ind. Differential mechanism. No. 915,827; Mar. 23; Sp. p. 4483; Gaz. vol. 140; p. 795.
- Brockett, C. H. (See Klouse and Brockett.)
- Brockett, D. E. J., and F. Garver, assignors to Huber Manufacturing Company, Marion, Ohio. Garbanzon hulling and separating machine. No. 942,053; Dec. 7; Sp. p. 21; Gaz. vol. 149; p. 6.
- Brockett, W., Westmoreland, Tenn. Churn. No. 912,279; Feb. 16; Sp. p. 2585; Gaz. vol. 139; p. 476.
- Brockhausen, C. E., Chicago, Ill. Concrete construction. No. 938,458; Nov. 2; Sp. p. 10; Gaz. vol. 148; p. 4.
- Brockman, C. T. (See Brockman, J. H., assignor.)
- Brockman, J. H., assignor of one-half to C. T. Brockman, Mason, Tex. Reversible and adjustable heel-sweep. No. 938,963; Nov. 2; Sp. p. 1115; Gaz. vol. 148; p. 178.
- Brockmann, E. A. (See Miller, F. J., assignor.)
- Brockton Folding Machine Company. (See Rollins, G. E., assignor.)
- Brockton Heel Company. (See Bosworth, W. P., assignor.)
- Brockway, H. A., Denver, Colo. Pneumatic hammer. No. 924,531; June 8; Sp. p. 3081; Gaz. vol. 143; p. 504.
- Brockway, S. A., Fordyce, Nebr. Alligator-wrench. No. 923,940; June 8; Sp. p. 1855; Gaz. vol. 143; p. 309.
- Brockway, S. A., Fordyce, Nebr. Clothes-hook. No. 923,941; June 8; Sp. p. 1856; Gaz. vol. 143; p. 309.
- Brockway, S. A., Fordyce, Nebr. Ratchet-wrench. No. 923,942; June 8; Sp. p. 1857; Gaz. vol. 143; p. 310.
- Brod, H. M., Dixon, Ill. Pneumatic for automatic piano-players. No. 914,549; Mar. 9; Sp. p. 1884; Gaz. vol. 140; p. 321.
- Broders, E. F. (See Frambach, M. J., assignor.)
- Broderson, N. C., Sycamore, Ill. Check-row corn-planter. No. 920,014; Apr. 27; Sp. p. 6519; Gaz. vol. 141; p. 1113.
- Brodour, A. A., Worcester, Mass. Muscle-testing machine. No. 929,281; July 27; Sp. p. 5360; Gaz. vol. 144; p. 943.
- Brodhead, A. G., assignor of one-half to D. J. Delaney, New York, N. Y. Milk-bottle receptacle. No. 941,853; Nov. 30; Sp. p. 7503; Gaz. vol. 148; p. 1261.
- Brodie, J. E., assignor of one-half to C. Grey, Rochester, N. Y. Coupling for air-brake pipes. No. 923,112; May 25; Sp. p. 6220; Gaz. vol. 142; p. 1078.
- Brodie, J. E., assignor of one-half to C. Grey, Rochester, N. Y. Steam-pipe coupling for cars. No. 930,933; Aug. 10; Sp. p. 2698; Gaz. vol. 145; p. 461.
- Brodie, W. M., East Orange, N. J. Primary battery. No. 933,525; Sept. 7; Sp. p. 1167; Gaz. vol. 146; p. 168.
- Brodr. Refsums Stoberi & Mek. Vaerksted *et al.* (See Refsum, E. and Ta, assignors.)
- Brodton, A. L., assignor of one-half to E. and E. G. Tacon, Mobile, Ala. Catamenial garment. No. 939,943; Nov. 9; Sp. p. 3286; Gaz. vol. 148; p. 542.
- Brodton, E. R., assignor of one-fourth to G. H. Fondé and one-fourth to E. E. Wagar, Mobile, Ala. Relay. No. 923,104; July 13; Sp. p. 2892; Gaz. vol. 144; p. 494.
- Brodton, E. R., assignor of one-third to G. H. Fondé and one-third to E. E. Wagar, Mobile, Ala. Telephone system. No. 933,018; Aug. 31; Sp. p. 7125; Gaz. vol. 145; p. 1224.
- Brodton, E. R., assignor of thirteen-thirtieths to G. H. Fondé and thirteen-thirtieths to E. G. Wagar, Mobile, Ala. Wireless railway signal system. No. 936,405; Oct. 12; Sp. p. 1679; Gaz. vol. 147; p. 285.

*Alphabetical list of patentees—Continued.*

- Brofos, E. A., assignor to American Electric Telephone Co., Chicago, Ill. Electromagnetic device. No. 938,740; Nov. 2; Sp. p. 625; Gaz. vol. 148; p. 99.
- Broga, F. D., Oneida, N. Y. Fastener. No. 942,129; Dec. 7; Sp. p. 218; Gaz. vol. 149; p. 33.
- Brogan, M. F., Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting protectors, slugs, or fastenings. No. 938,118; Oct. 26; Sp. p. 5256; Gaz. vol. 147; p. 902.
- Brogden, J., assignor to David Lupton's Sons Company, Philadelphia, Pa. Sheet-metal-paneled structure. No. 929,824; Aug. 3; Sp. p. 417; Gaz. vol. 145; p. 69.
- Broich, C., *et al.* (See Peileke, G., assignor.)
- Brolin, W. A., *et al.* (See Faust, L., assignor.)
- Broluska, A., assignor to one-half to A. A. Day, Detroit, Mich. Eccentric lock-nut. No. 908,542; Jan. 5; Sp. p. 232; Gaz. vol. 138; p. 39.
- Broman, J. G. (See Jenkins and Broman.)
- Broman, P., assignor to Beaver Dam Manufacturing Company, Beaver Dam, Wis. Dust-proof journal-bearing for revoluble disks. No. 942,539; Dec. 7; Sp. p. 1073; Gaz. vol. 149; p. 174.
- Bromhead, J. S., New York, N. Y. Non-refillable bottle. No. 936,860; Oct. 12; Sp. p. 2626; Gaz. vol. 147; p. 438.
- Bromley, H. R., and A. R. Marshall, Pittsburg, Pa. Heater. No. 933,879; Sept. 14; Sp. p. 1870; Gaz. vol. 146; p. 309.
- Bromwell Brush & Wire Goods Company, (See Melish, T. G., assignor.)
- Brownell, J. H., *et al.* (See Auble, J. H., assignor.)
- Bronaugh, J. C., Kansas City, Mo. Stage border-light. No. 913,805; Mar. 2; Sp. p. 266; Gaz. vol. 140; p. 45.
- Bronhard, N., Toledo, Ohio. Cement-cistern mold. No. 929,825; Aug. 3; Sp. p. 418; Gaz. vol. 145; p. 69.
- Brons, J., Delfzijl, Netherlands. Hydrocarbon-engine. No. 922,383; May 18; Sp. p. 4682; Gaz. vol. 142; p. 813.
- Bronson, A. E., Jr., assignor to Bronson-Walton Company, Cleveland, Ohio. Coffee-mill. No. 921,074; May 11; Sp. p. 2007; Gaz. vol. 142; p. 353.
- Bronson, K. I., Rice Lake, Wis. Door-opener. No. 918,730; Apr. 20; Sp. p. 3689; Gaz. vol. 141; p. 654.
- Bronson, R. C., Chicago, Ill. Electric alarm. No. 937,919; Oct. 26; Sp. p. 4836; Gaz. vol. 147; p. 836.
- Bronson, W. T., Mishawaka, Ind. Bait-casting reel. No. 937,672; Oct. 19; Sp. p. 4306; Gaz. vol. 147; p. 734.
- Bronson-Walton Company. (See Bronson, A. E., Jr., assignor.)
- Bronston, C. J., *et al.* (See Saxton, T. G., assignor.)
- Brooke, A. M., Ensley, Ala. Device for moving mattresses. No. 915,734; Mar. 23; Sp. p. 4314; Gaz. vol. 140; p. 767.
- Brookes, W. F., Jr., *et al.* (See Herr, C. H., assignor.)
- Brooklyn Coopers Company. (See Sullivan and Young, assignors.)
- Brookman, D. S., Wellsville, Ohio, assignor to American Sheet & Tin Plate Company, Pittsburg, Pa. Manufacture of plates and sheets. No. 941,854; Nov. 30; Sp. p. 7505; Gaz. vol. 148; p. 1262.
- Brooks, A. A., assignor to one-half to P. Bendixen, Springfield, Minn. Wheat-steamer. No. 926,465; June 29; Sp. p. 7041; Gaz. vol. 143; p. 1241.
- Brooks, A. A., and F. D. Crooker, Kansas City, Kans. Clothes-washer. No. 934,501; Sept. 21; Sp. p. 8086; Gaz. vol. 146; p. 538.
- Brooks, B. A., Brooklyn, N. Y., assignor to Bandotype Company. Typographic machine. No. 933,058; Sept. 7; Sp. p. 38; Gaz. vol. 146; p. 8.
- Brooks, C. E., assignor to B. Roth Tool Company, St. Louis, Mo. Steering device. No. 918,122; Apr. 13; Sp. p. 2364; Gaz. vol. 141; p. 423.
- Brooks, C. E., assignor to B. Roth Tool Company, St. Louis, Mo. Embossing and printing press. No. 924,597; June 8; Sp. p. 3217; Gaz. vol. 143; p. 526.
- Brooks, C. E., assignor to B. Roth Tool Company, St. Louis, Mo. Winding mechanism for embossing and printing presses. No. 926,715; June 29; Sp. p. 7524; Gaz. vol. 143; p. 1324.
- Brooks, C. E., assignor to B. Roth Tool Company, St. Louis, Mo. Sub-chuck. No. 930,146; Aug. 3; Sp. p. 1109; Gaz. vol. 145; p. 179.
- Brooks, C. E., assignor to B. Roth Tool Company, St. Louis, Mo. Chuck. No. 930,147; Aug. 3; Sp. p. 1111; Gaz. vol. 145; p. 180.
- Brooks, C. K., assignor to National Malleable Castings Company, Cleveland, Ohio. Friction draft-rigging. No. 942,773; Dec. 7; Sp. p. 1533; Gaz. vol. 149; p. 251.
- Brooks, C. L., Charlottesville, Va. Hinge. No. 918,731; Apr. 20; Sp. p. 3690; Gaz. vol. 141; p. 654.
- Brooks, E. J., East Orange, N. J. Bag-seal. No. 908,945; Jan. 5; Sp. p. 1046; Gaz. vol. 138; p. 168.
- Brooks, E. J., East Orange, N. J. Seal. No. 909,363; Jan. 12; Sp. p. 1889; Gaz. vol. 138; p. 338.
- Brooks, E. J., East Orange, N. J. Bag-seal. No. 912,533; Feb. 16; Sp. p. 3128; Gaz. vol. 139; p. 562.
- Brooks, E. J., East Orange, N. J. Snap-seal. No. 912,534; Feb. 16; Sp. p. 3131; Gaz. vol. 139; p. 562.
- Brooks, E. J., East Orange, N. J. Seal. No. 917,410; Apr. 6; Sp. p. 910; Gaz. vol. 141; p. 158.
- Brooks, E. J., East Orange, N. J. Snap-seal. No. 919,815; Apr. 27; Sp. p. 5057; Gaz. vol. 141; p. 878.
- Brooks, E. J., East Orange, N. J. Seal. No. 919,316; Apr. 27; Sp. p. 5059; Gaz. vol. 141; p. 878.
- Brooks, E. J., East Orange, N. J. Snap-seal. No. 923,014; May 25; Sp. p. 6009; Gaz. vol. 142; p. 1046.
- Brooks, E. J., East Orange, N. J. Snap-seal. No. 923,015; May 25; Sp. p. 6010; Gaz. vol. 142; p. 1047.
- Brooks, E. J., East Orange, N. J. Box-seal. No. 925,450; June 22; Sp. p. 4944; Gaz. vol. 143; p. 873.
- Brooks, E. J., East Orange, N. J. Box-seal. No. 925,451; June 22; Sp. p. 4946; Gaz. vol. 143; p. 873.
- Brooks, E. J., East Orange, N. J. Device for sealing boxes. No. 925,990; June 22; Sp. p. 6067; Gaz. vol. 143; p. 1049.
- Brooks, E. J., East Orange, N. J. Box-seal. No. 927,217; July 6; Sp. p. 1066; Gaz. vol. 144; p. 173.
- Brooks, E. J., East Orange, N. J. Seal-press. No. 932,438; Aug. 31; Sp. p. 5927; Gaz. vol. 145; p. 1033.
- Brooks, E. J., East Orange, N. J. Snap-seal. No. 937,575; Oct. 19; Sp. p. 4134; Gaz. vol. 147; p. 703.
- Brooks, E. J., East Orange, N. J. Box-seal. No. 940,505; Nov. 16; Sp. p. 4582; Gaz. vol. 148; p. 765.
- Brooks, E. J., East Orange, N. J. Tag-attaching seal. No. 942,435; Dec. 7; Sp. p. 834; Gaz. vol. 149; p. 137.
- Brooks, E. J., East Orange, N. J. Snap-seal. No. 942,774; Dec. 7; Sp. p. 1536; Gaz. vol. 149; p. 252.
- Brooks, F. M., New York, N. Y. Inverted gas-lamp. No. 910,780; Jan. 26; Sp. p. 4813; Gaz. vol. 138; p. 870.
- Brooks, F. W., Washington, D. C. Car-seal. No. 931,379; Aug. 17; Sp. p. 3724; Gaz. vol. 145; p. 643.
- Brooks, G. W., Topeka, Kans. Fireproof beam. No. 928,935; July 27; Sp. p. 4623; Gaz. vol. 144; p. 829.
- Brooks, G. W., Topeka, Kans. Fire-escape. No. 931,031; Aug. 17; Sp. p. 2946; Gaz. vol. 145; p. 521.
- Brooks, G. W. E. (See Wittig, H. F., assignor.)
- Brooks, G. W. E., Baltimore, Md. Can-capping machine. No. 931,262; Aug. 17; Sp. p. 3462; Gaz. vol. 145; p. 601.
- Brooks, H., Jersey City, N. J. Glass-furnace. No. 925,864; June 22; Sp. p. 5824; Gaz. vol. 143; p. 1008.
- Brooks, H. A. (See Blaisdell and Brooks.)
- Brooks, J. C., Paterson, N. J. Textile fabric. No. 944,125; Dec. 21; Sp. p. 4504; Gaz. vol. 149; p. 773.
- Brooks, J. C., Paterson, N. J., assignor to Draper Company, Portland, Me. Automatic wet-replenishing loom. No. 911,643; Feb. 9; Sp. p. 1230; Gaz. vol. 139; p. 233.
- Brooks, L., *et al.* (See Morris, C. A., assignor.)
- Brooks, L. L. C. (See Lappen, J. E., assignor.)
- Brooks, R., Gloucester, Mass. Collapsible tube. No. 943,234; Dec. 14; Sp. p. 2587; Gaz. vol. 149; p. 438.
- Brooks, R. A., Chicago, Ill. Toilet-closet. No. 936,516; Oct. 12; Sp. p. 1941; Gaz. vol. 147; p. 321.
- Brooks, R. J., Cassopolis, Mich. Feed-bag. No. 917,534; Apr. 6; Sp. p. 1127; Gaz. vol. 141; p. 197.
- Brooks, R. S., Bonner Springs, Kans. Gate. No. 919,122; Apr. 20; Sp. p. 4470; Gaz. vol. 141; p. 780.
- Brooks, R. T., *et al.* (See Horner, S. E., assignor.)
- Brooks, R. W., Denver, Colo. Trace-carrier. No. 922,384; May 18; Sp. p. 4685; Gaz. vol. 142; p. 813.
- Brooks, T. R., and G. E. Bateman, San Francisco, Cal. Ore-concentrator belt. No. 931,991; Aug. 24; Sp. p. 5031; Gaz. vol. 145; p. 862.
- Brooks, W. M., East Orange, N. J., assignor to E. J. Brooks & Co., New York, N. Y. Box-seal. No. 928,176; July 13; Sp. p. 3039; Gaz. vol. 144; p. 519.
- Brooks, W. M., East Orange, N. J., assignor to E. J. Brooks Co., New York, N. Y. Box-seal. No. 938,206; Oct. 26; Sp. p. 5461; Gaz. vol. 147; p. 933.
- Broome, G. A. (See Broome, M. J. and G. A.)
- Broome, L. H., Jersey City, N. J. Friction device. No. 916,528; Mar. 30; Sp. p. 5854; Gaz. vol. 140; p. 1050.
- Broome, M. J. and G. A., Cedar Rapids, assignors of one-third to M. M. Miller, Mediapolis, Iowa. Fire-escape. No. 918,275; Apr. 13; Sp. p. 2679; Gaz. vol. 141; p. 474.
- Broomell, A. P., York, Pa. Submarine mine. No. 937,673; Oct. 19; Sp. p. 4307; Gaz. vol. 147; p. 734.
- Broomell, A. P., York, Pa. Submarine mine. No. 940,506; Nov. 16; Sp. p. 4584; Gaz. vol. 148; p. 765.
- Broomell, H., Philadelphia, Pa. Turbine water-wheel. No. 930,832; Aug. 10; Sp. p. 2482; Gaz. vol. 145; p. 429.
- Bropson, J., Cleveland, Ohio. Closet-seat bumper. No. 926,466; June 29; Sp. p. 7042; Gaz. vol. 143; p. 1241.
- Brose, A. C., New York, N. Y. Interchangeable sign. No. 911,699; Feb. 9; Sp. p. 1349; Gaz. vol. 139; p. 251.
- Brosier, F. D. (See Bolen, E. A., assignor.)
- Brosius, E. E. (See Taylor and Brosius.)
- Brosius, E. E., assignor to Morgan Engineering Company, Alliance, Ohio. Electric traveling crane. No. 923,133; June 1; Sp. p. 14; Gaz. vol. 143; p. 4.



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- Broski, J. W., *et al.* (See Davis, C. B., assignor.)
- Brost, C. A., assignor of one-half to P. M. Clark and J. J. P. Marquette, Kenmare, N. D. Threshing-machine attachment. No. 923,324; June 1; Sp. p. 498; Gaz. vol. 143; p. 71.
- Brothers, S. W., Denver, Colo. Rock-drill. No. 927,940; July 13; Sp. p. 2586; Gaz. vol. 144; p. 440.
- Brothers, S. W., Denver, Colo. Adjustable support for rock-drills. No. 929,826; Aug. 3; Sp. p. 419; Gaz. vol. 145; p. 69.
- Brott, E. E., Burlington, Kans. Rain-water cut-off. No. 928,846; July 20; Sp. p. 4428; Gaz. vol. 144; p. 771.
- Brott, H. G., San Jose, Cal., assignor to Sanitary Toilet Appliance Company. Sanitary appliance. No. 912,280; Feb. 16; Sp. p. 2586; Gaz. vol. 139; p. 476.
- Broughton, B., Hamilton, Ontario, Canada. Eyeglasses. No. 908,737; Jan. 5; Sp. p. 659; Gaz. vol. 138; p. 102.
- Broughton, C. W., Carlton, Ill. Mail-pouch receiving and delivery apparatus for railway-cars. No. 920,723; May 4; Sp. p. 1291; Gaz. vol. 142; p. 207.
- Broughton, C. W., Carlton, Ill. Mail-pouch receiving and delivering apparatus for railway-cars and the like. No. 931,263; Aug. 17; Sp. p. 3467; Gaz. vol. 145; p. 601.
- Broughton, C. W., Carlton, Ill. Mail-pouch-delivery apparatus. No. 938,821; Nov. 2; Sp. p. 797; Gaz. vol. 148; p. 128.
- Broughton, C. W., Carlton, Ill. Mail-pouch receiving and delivering apparatus for railway-cars and the like. No. 944,716; Dec. 28; Sp. p. 5784; Gaz. vol. 149; p. 1001.
- Broughton, L. D., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 938,454; Oct. 26; Sp. p. 6029; Gaz. vol. 147; p. 1018.
- Brouillet, A., San Luis Obispo, Cal. Stove-hood. No. 913,465; Feb. 23; Sp. p. 5028; Gaz. vol. 139; p. 898.
- Broussard, D. (See Louviere and Broussard.)
- Brousseau, J. O., North Hatley, Quebec, Canada. Flush-tank. No. 909,537; Jan. 12; Sp. p. 2231; Gaz. vol. 138; p. 396.
- Broward, N. B., Tallahassee, Fla. Boat. No. 911,806; Feb. 9; Sp. p. 1534; Gaz. vol. 139; p. 285.
- Brower, G. L., *et al.* (See Purdy, H. E., assignor.)
- Brower, S., Nebraska City, Nebr. Can-righting machine. No. 912,535; Feb. 16; Sp. p. 3134; Gaz. vol. 139; p. 562.
- Brower, W. W., Hamattan, Alberta, Canada. Elevating and loading mechanism. No. 936,517; Oct. 12; Sp. p. 1946; Gaz. vol. 147; p. 321.
- Brown, A. (See Fussey and Brown.)
- Brown, A., Rockford, Iowa. Door-check. No. 943,515; Dec. 14; Sp. p. 3186; Gaz. vol. 149; p. 536.
- Brown, A. E., *et al.* (See Clement, R. B., assignor.)
- Brown, A. E., Brookfield, N. Y. Thill coupling and support. No. 913,806; Mar. 2; Sp. p. 268; Gaz. vol. 140; p. 46.
- Brown, A. E., assignor to Brown Hoisting Machinery Company, Cleveland, Ohio. Gate for bins and other similar receptacles. No. 917,746; Apr. 13; Sp. p. 1551; Gaz. vol. 141; p. 294.
- Brown, A. E., assignor to Brown Hoisting Machinery Company, Cleveland, Ohio. Mast for space or wireless telegraphy. No. 921,075; May 11; Sp. p. 2010; Gaz. vol. 142; p. 353.
- Brown, A. E., assignor to Brown Hoisting Machinery Company, Cleveland, Ohio. Means for determining the weight of loads. No. 932,109; Aug. 24; Sp. p. 5288; Gaz. vol. 145; p. 901.
- Brown, A. E. and J. M. Roberts, Crayne, Ky. Combination door-lock. No. 939,210; Nov. 9; Sp. p. 1635; Gaz. vol. 148; p. 289.
- Brown, A. F., Somerville, Mass. Mop. No. 911,199; Feb. 2; Sp. p. 347; Gaz. vol. 139; p. 60.
- Brown, A. G., assignor to Union Fibre Company, Winona, Minn. Refrigerator-car. No. 940,124; Nov. 16; Sp. p. 3722; Gaz. vol. 148; p. 634.
- Brown, A. J., Norwood, Ohio. Reflector. No. 908,838; Jan. 5; Sp. p. 848; Gaz. vol. 138; p. 133.
- Brown, A. J., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Ventilating means for laminated cores. No. 925,991; June 22; Sp. p. 6069; Gaz. vol. 143; p. 1049.
- Brown, A. J., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Brush-holder. No. 917,535; Apr. 6; Sp. p. 1129; Gaz. vol. 141; p. 198.
- Brown, A. L., New Haven, Ind. Storm-shield. No. 924,424; June 8; Sp. p. 2874; Gaz. vol. 143; p. 469.
- Brown, A. M., and F. Hunter, Houston, Tex. Well-strainer. No. 929,191; July 27; Sp. p. 5160; Gaz. vol. 144; p. 915.
- Brown, A. T. (See Carhart, G. C., assignor.)
- Brown, A. T. (See Tomlinson, C. E., assignor.)
- Brown, A. T., Syracuse, N. Y. Gearing. No. 909,984; Jan. 19; Sp. p. 3129; Gaz. vol. 138; p. 579.
- Brown, A. T., Syracuse, N. Y. Type-writing machine. No. 910,900; Jan. 26; Sp. p. 5042; Gaz. vol. 138; p. 908.
- Brown, A. T., Syracuse, N. Y. Type-writing machine. No. 910,987; Jan. 26; Sp. p. 5195; Gaz. vol. 138; p. 937.
- Brown, A. T., Syracuse, N. Y. Type-writing machine. No. 911,198; Feb. 2; Sp. p. 343; Gaz. vol. 139; p. 60.
- Brown, A. T., Syracuse, N. Y. Type-writing machine. No. 915,015; Mar. 9; Sp. p. 2786; Gaz. vol. 140; p. 471.
- Brown, A. T., Syracuse, N. Y. Type-writing machine. No. 922,385; May 18; Sp. p. 4686; Gaz. vol. 142; p. 814.
- Brown, A. T., Syracuse, N. Y. Type-writing machine. No. 923,243; June 1; Sp. p. 252; Gaz. vol. 143; p. 42.
- Brown, A. T., Syracuse, N. Y. Type-writing machine. No. 923,763; June 1; Sp. p. 1435; Gaz. vol. 143; p. 222.
- Brown, A. T., Syracuse, N. Y. Type-writing machine. No. 924,885; June 15; Sp. p. 3844; Gaz. vol. 143; p. 656.
- Brown, A. T., Syracuse, N. Y. Type-writing machine. No. 928,627; July 20; Sp. p. 4010; Gaz. vol. 144; p. 699.
- Brown, A. T., Syracuse, N. Y. Type-writing machine. No. 935,776; Oct. 5; Sp. p. 342; Gaz. vol. 147; p. 52.
- Brown, A. T., Syracuse, N. Y. Type-writing machine. No. 937,412; Oct. 19; Sp. p. 3795; Gaz. vol. 147; p. 647.
- Brown, A. T., Syracuse, N. Y. Type-writing machine. No. 937,413; Oct. 19; Sp. p. 3800; Gaz. vol. 147; p. 648.
- Brown, A. T., Syracuse, N. Y. Type-writing machine. No. 937,414; Oct. 19; Sp. p. 3806; Gaz. vol. 147; p. 648.
- Brown, A. T., Syracuse, N. Y. Type-writing machine. No. 938,119; Oct. 26; Sp. p. 5263; Gaz. vol. 147; p. 902.
- Brown, A. T., Syracuse, N. Y. Type-writing machine. No. 939,587; Nov. 9; Sp. p. 2523; Gaz. vol. 148; p. 416.
- Brown, A. T., Syracuse, N. Y. Type-writing machine. No. 944,596; Dec. 28; Sp. p. 5543; Gaz. vol. 149; p. 961.
- Brown, A. W. (See Verner and Brown.)
- Brown, B. F., Brageton, Ind. Wheelbarrow. No. 926,467; June 29; Sp. p. 7043; Gaz. vol. 143; p. 1241.
- Brown & Bailey Company. (See Brown, R. P., assignor.)
- Brown-Binnian Company. (See Bogan, D. J., assignor.)
- Brown, C. (See Bauer and Brown.)
- Brown, C. (See Milliken, F. W., assignor.)
- Brown, C. C., Revelstoke, British Columbia, Canada. Window-shade support. No. 938,207; Oct. 26; Sp. p. 5463; Gaz. vol. 147; p. 933.
- Brown, C. C., assignor of one-half to W. H. Smith, Le Roy, N. Y. Can-stamping machine. No. 914,234; Mar. 2; Sp. p. 1238; Gaz. vol. 140; p. 193.
- Brown, C. E. L., Roemerburg, Baden, Switzerland. Automatic alternating-current contact apparatus. No. 918,417; Apr. 13; Sp. p. 2946; Gaz. vol. 141; p. 519.
- Brown, C. F., trustee. (See Davis, E., assignor.)
- Brown, C. F., trustee. (See Noyes, E. P., assignor.)
- Brown, C. F., trustee. (See Pratt, P. W., assignor.)
- Brown, C. F., trustee. (See Reeve, S. A., assignor.)
- Brown, C. F., New York, N. Y. Card-case. No. 921,076; May 11; Sp. p. 2011; Gaz. vol. 142; p. 376.
- Brown, C. J. (See Marston, E. L., assignor.)
- Brown, C. M. (See Jones, Brown, Fleming, and McDonald.)
- Brown, C. M., Cleveland, Ohio. Automatic cut-off. No. 933,880; Sept. 14; Sp. p. 1872; Gaz. vol. 146; p. 309.
- Brown, C. M., Urbana, Ill. Mold for the casting of concrete burial-vaults. No. 936,861; Oct. 12; Sp. p. 2627; Gaz. vol. 147; p. 438.
- Brown, C. N., Richmondville, N. Y. Signal. No. 914,235; Mar. 2; Sp. p. 1240; Gaz. vol. 140; p. 193.
- Brown, C. N., Boston, assignor by mesne assignments, to American Circular Loom Company, Chelsea, Mass. Pipe-bending machine. No. 926,093; June 29; Sp. p. 6296; Gaz. vol. 143; p. 1118.
- Brown, C. R., London, England. Apparatus for discharging liquids from and to filter-beds, &c. No. 922,386; May 18; Sp. p. 4699; Gaz. vol. 142; p. 814.
- Brown, C. S., and A. S. Brinkerhoff, Utica, N. Y. Cheese-hoop. No. 929,384; July 27; Sp. p. 5588; Gaz. vol. 144; p. 980.
- Brown, C. T., Chicago, Ill. Explosion-engine. No. 930,347; Aug. 10; Sp. p. 1462; Gaz. vol. 145; p. 267.
- Brown, C. V. (See Brown, W. N., C. V., and L. L.)
- Brown, C. W., Lewiston, N. C. Cultivator. No. 942,540; Dec. 7; Sp. p. 1075; Gaz. vol. 149; p. 174.
- Brown, C. W., Leonard, Tex. Window-shade bracket. No. 942,775; Dec. 7; Sp. p. 1538; Gaz. vol. 149; p. 252.
- Brown, C. W., *et al.*, trustees. (See Hitchcock, H. K., assignor.)
- Brown, D. (See Downie and Brown.)
- Brown, D., Spokane, Wash. Pulsator for milking-machines. No. 930,833; Aug. 10; Sp. p. 2483; Gaz. vol. 145; p. 429.
- Brown, D. B., Bellingham, Wash. Paper-actuating device for barbers' chairs. No. 928,243; July 20; Sp. p. 3199; Gaz. vol. 144; p. 571.
- Brown, D. F., South Framingham, Mass. Advertising automaton. No. 908,734; Jan. 5; Sp. p. 646; Gaz. vol. 138; p. 101.
- Brown, D. F., South Framingham, Mass. Advertising-automaton. No. 928,628; July 20; Sp. p. 4013; Gaz. vol. 144; p. 699.

*Alphabetical list of patentees—Continued.*

- Brown, D. S., Jr., and F. C. Stinzling, New York, N. Y. Apparatus for igniting gaseous fuel. No. 912,066; Feb. 9; Sp. p. 2147; Gaz. vol. 139; p. 370.
- Brown Davis Hardware Company. (See Davis, G. H., assignor.)
- Brown, E., Attica, Ind. Plow-cutter. No. 944,478; Dec. 23; Sp. p. 5250; Gaz. vol. 149; p. 919.
- Brown, E. B., Los Angeles, Cal. Hydrocarbon-gas generator. No. 935,294; Sept. 28; Sp. p. 4660; Gaz. vol. 146; p. 828.
- Brown, E. F., Chicago, Ill. Attachment for vehicles. No. 916,529; Mar. 30; Sp. p. 5857; Gaz. vol. 140; p. 1051.
- Brown, E. F., Chicago, Ill. Vehicle-spring. No. 920,910; May 11; Sp. p. 1672; Gaz. vol. 142; p. 298.
- Brown, E. J., Brooklyn, N. Y. Elevator safety-lock. No. 920,820; May 4; Sp. p. 1475; Gaz. vol. 142; p. 233.
- Brown, E. L., Cleveland, assignor of one-third to P. L. Andrews, Toledo, and one-third to C. Eisle, Cleveland, Ohio. Air-hose coupling. No. 939,211; Nov. 9; Sp. p. 1638; Gaz. vol. 148; p. 289.
- Brown, E. V., assignor of one-half to A. Day, New Albany, Ind. Insulator-bracket. No. 937,984; Oct. 26; Sp. p. 4971; Gaz. vol. 147; p. 857.
- Brown, E. W., *et al.*, executors. (See Brown, N. E.)
- Brown, E. W., Grenada, Miss. Switch-rod. No. 937,506; Oct. 19; Sp. p. 4003; Gaz. vol. 147; p. 679.
- Brown, F. D., and W. D. Whitney, Minneapolis, Minn. Vehicle suspension. No. 923,764; June 1; Sp. p. 1437; Gaz. vol. 143; p. 223.
- Brown, F. H., Philadelphia, Pa. Fluid-pressure regulator. No. 939,470; Nov. 9; Sp. p. 2281; Gaz. vol. 148; p. 377.
- Brown, F. H., J. E. Hanrahan, and J. L. Sellar, Baltimore, Md., assignors, by mesne assignments, to American Planograph Company, New York, N. Y. Type-setting and printing machine. No. 921,946; May 18; Sp. p. 3809; Gaz. vol. 142; p. 670.
- Brown, F. J., assignor of one-half to J. J. Scott, Scranton, Pa. Nut-lock. No. 930,148; Aug. 3; Sp. p. 1112; Gaz. vol. 145; p. 180.
- Brown, F. J., assignor of one-fourth to A. M. Lasater, Plemons, Tex. Bag-fastener. No. 943,175; Dec. 14; Sp. p. 2460; Gaz. vol. 149; p. 413.
- Brown, F. L., and I. W. Sprink, assignors to Crescent Manufacturing Company, Scottdale, Pa. Automatic die-head. No. 909,748; Jan. 12; Sp. p. 2653; Gaz. vol. 138; p. 468.
- Brown, F. L., and I. W. Sprink, assignors to Crescent Manufacturing Company, Scottdale, Pa. Adjustable collapsing tap. No. 909,749; Jan. 12; Sp. p. 2656; Gaz. vol. 138; p. 468.
- Brown, G. A., Allegheny, assignor of one-third to J. P. Bingaman and one-third to C. F. Bingaman, Pittsburg, Pa. Flushing-valve. No. 913,097; Feb. 23; Sp. p. 4274; Gaz. vol. 139; p. 775.
- Brown, G. L., Louisville, Ky., assignor to Standard Railway Equipment Company, East St. Louis, Ill. Handle-lock for pneumatic tools. No. 915,735; Mar. 23; Sp. p. 4315; Gaz. vol. 140; p. 767.
- Brown, G. T., New York, N. Y. Combined timer and distributor. No. 938,208; Oct. 26; Sp. p. 5465; Gaz. vol. 147; p. 934.
- Brown, G. V., Junction City, Kans. Tire-cover and fastening therefor. No. 931,674; Aug. 17; Sp. p. 4296; Gaz. vol. 145; p. 734.
- Brown, G. W., Madison, Ohio. Mold for making sarcophagi. No. 943,860; Dec. 21; Sp. p. 3925; Gaz. vol. 149; p. 683.
- Brown, H. (See Box and Brown.)
- Brown, H., Decatur, Ind. Incubator. No. 914,236; Mar. 2; Sp. p. 1242; Gaz. vol. 140; p. 194.
- Brown, H. A., Abney, and B. B. Burks, Hinton, W. Va. Adding and subtracting machine. No. 926,166; June 29; Sp. p. 6452; Gaz. vol. 143; p. 1143.
- Brown, H. C., Chicago, Ill. Vibratory massage apparatus. No. 921,671; May 18; Sp. p. 3270; Gaz. vol. 142; p. 581.
- Brown, H. H. (See Ramsay and Brown.)
- Brown, H. H., Boston, Mass. Electrically-operated starting device. No. 920,724; May 4; Sp. p. 1293; Gaz. vol. 142; p. 207.
- Brown, H. M., assignor to U. S. Bobbin and Shuttle Co., Providence, R. I. Loom-shuttle. No. 918,123; Apr. 13; Sp. p. 2367; Gaz. vol. 141; p. 424.
- Brown, H. P., Emeryville, Cal. Manifold-book. No. 920,015; Apr. 27; Sp. p. 6521; Gaz. vol. 141; p. 1113.
- Brown, H. P., Oakland, Cal. Triplicating-book. No. 936,084; Oct. 5; Sp. p. 1025; Gaz. vol. 147; p. 155.
- Brown, H. S., New York, N. Y. Oscillating electric fan. No. 908,735; Jan. 5; Sp. p. 648; Gaz. vol. 138; p. 101.
- Brown, H. S., New York, N. Y. Oscillating electric fan. No. 908,736; Jan. 5; Sp. p. 652; Gaz. vol. 138; p. 101.
- Brown, H. W. (See Adams, R. C., assignor.)
- Brown, H. W., trustee. (See McIntire, J. E., assignor.)
- Brown Hoisting Machinery Company. (See Baker, D., assignor.)
- Brown Hoisting Machinery Company. (See Brown, A. E., assignor.)
- Brown Hoisting Machinery Company. (See Burgess, W. G., assignor.)
- Brown Hoisting Machinery Company. (See Wright and Monroe, assignors.)
- Brown Hoisting Machinery Company. (See Wright and Scott, assignors.)
- Brown, J. (See Shemmann and Brown.)
- Brown, J., Camden, N. J. Rail-joint. No. 930,834; Aug. 10; Sp. p. 2485; Gaz. vol. 145; p. 430.
- Brown, J. B., *et al.* (See Ellis, G. M., assignor.)
- Brown, J. B., Newark, Ark. Truck. No. 935,139; Sept. 28; Sp. p. 4366; Gaz. vol. 146; p. 770.
- Brown, J. C., Philadelphia, Pa. Envelop. No. 913,612; Feb. 23; Sp. p. 5357; Gaz. vol. 139; p. 948.
- Brown, J. C., Evergreen, Ala. Power-rigging for pushing railway-rails upgrade. No. 930,643; Aug. 10; Sp. p. 2103; Gaz. vol. 145; p. 367.
- Brown, J. D., *et al.* (See Gross, A. R., assignor.)
- Brown, J. D., assignor of one-half to C. A. Lamon, Dundalk, Ontario, Canada. Safety-razor-blade holder. No. 930,149; Aug. 3; Sp. p. 1113; Gaz. vol. 145; p. 180.
- Brown, J. E., assignor of one-third to J. F. Smith, Ogden, Utah. Cover-retainer. No. 934,277; Sept. 14; Sp. p. 2644; Gaz. vol. 146; p. 439.
- Brown, J. H., Boston, Mass. Woodworker's plane. No. 936,085; Oct. 5; Sp. p. 1026; Gaz. vol. 147; p. 155.
- Brown, J. H., assignor of one-half to D. A. Berry, Northampton, England. Toe-box for use in the manufacture of boots and shoes. No. 910,781; Jan. 26; Sp. p. 4815; Gaz. vol. 138; p. 871.
- Brown, J. H., assignor, by mesne assignments, of one-half to E. Krusi, New York, N. Y. Railway-wheel mounting. No. 915,548; Mar. 16; Sp. p. 3900; Gaz. vol. 140; p. 675.
- Brown, J. H., assignor, by mesne assignments, of one-half to E. Krusi, New York, N. Y. Renovator. No. 933,526; Sept. 7; Sp. p. 1170; Gaz. vol. 146; p. 168.
- Brown, J. H., assignor of one-tenth to J. Markewich, New York, N. Y. Non-refillable receptacle for fluids. No. 944,313; Dec. 28; Sp. p. 4889; Gaz. vol. 149; p. 861.
- Brown, J. J. (See Blake, O. W., assignor.)
- Brown, J. L. (See Weber and Brown.)
- Brown, J. L., St. Paul, Minn. Sheet-inserter. No. 923,325; June 1; Sp. p. 499; Gaz. vol. 143; p. 71.
- Brown, J. P. (See Givens, G. C., assignor.)
- Brown, J. R., Vancouver, British Columbia, Canada. Fire-extinguishing device. No. 936,086; Oct. 5; Sp. p. 1028; Gaz. vol. 147; p. 156.
- Brown, J. R., assignor of forty-two and one-half hundredths to C. R. Campbell and forty-two and one-half hundredths to P. F. Kobbé, Jr., New York, N. Y. Printing in colors. No. 941,670; Nov. 30; Sp. p. 7084; Gaz. vol. 148; p. 1197.
- Brown, J. S., New York, N. Y. Ash-sifter. No. 941,613; Nov. 30; Sp. p. 6963; Gaz. vol. 148; p. 1178.
- Brown, J. T., Marblehead, Mass., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich. Last. No. 915,736; Mar. 23; Sp. p. 4317; Gaz. vol. 140; p. 767.
- Brown, J. W. (See Nixon, G. L., assignor.)
- Brown, J. W., Jr., Camden, Ark. Spark-plug. No. 919,123; Apr. 20; Sp. p. 4473; Gaz. vol. 141; p. 781.
- Brown, J. W., and E. J. Keithly, Cedar Vale, Kans. Sweep-rake. No. 931,675; Aug. 17; Sp. p. 4298; Gaz. vol. 145; p. 735.
- Brown, L. (See Lehman, Brown, and Solberg.)
- Brown, L. A., St. Louis, Mo. Post or column. No. 925,865; June 22; Sp. p. 5826; Gaz. vol. 143; p. 1008.
- Brown, L. A., Horine, Mo. Mold. No. 928,493; July 20; Sp. p. 3725; Gaz. vol. 144; p. 655.
- Brown, L. C., Logan, Iowa. Shelf for utilizing lamp heat. No. 919,534; Apr. 27; Sp. p. 5544; Gaz. vol. 141; p. 953.
- Brown, L. E., assignor to Farrington Manufacturing Company, Boston, Mass. Jewelry-box. No. 938,964; Nov. 2; Sp. p. 1117; Gaz. vol. 148; p. 179.
- Brown, L. J., Oaklyn, N. J. Flying-machine. No. 926,804; July 6; Sp. p. 199; Gaz. vol. 144; p. 33.
- Brown, L. K., Asotin, Wash. Front-wheel drive for traction-vehicles. No. 939,972; Nov. 16; Sp. p. 3348; Gaz. vol. 148; p. 579.
- Brown, L. L. (See Brown, W. N., C. V., and L. L.)
- Brown, L. P., Port Huron, Mich. Collapsible bottle or receptacle. No. 926,237; June 29; Sp. p. 6621; Gaz. vol. 143; p. 1168.
- Brown, L. P., Port Huron, Mich. Collapsible carton. No. 930,835; Aug. 10; Sp. p. 2456; Gaz. vol. 145; p. 430.
- Brown, L. P., Port Huron, Mich. Folding receptacle. No. 933,955; Sept. 14; Sp. p. 2021; Gaz. vol. 140; p. 333.
- Brown, M., Bunker Hill, Ill. Mail-box. No. 908,543; Jan. 5; Sp. p. 234; Gaz. vol. 138; p. 40.
- Brown, M., Raton, N. Mex. Ter. Mattress. No. 912,536; Feb. 16; Sp. p. 3137; Gaz. vol. 139; p. 563.
- Brown, M., Watonga, Okla. Kafir-corn header. No. 934,656; Sept. 21; Sp. p. 3393; Gaz. vol. 146; p. 591.
- Brown, M., Wilton, N. D. False rail for elevator-shafts. No. 935,736; Oct. 5; Sp. p. 236; Gaz. vol. 147; p. 38.
- Brown, M., assignor of one-half to M. Olshan, Chicago, Ill. Convertible chair-couch. No. 941,186; Nov. 23; Sp. p. 6060; Gaz. vol. 148; p. 1017.
- Brown, M. A., assignor of thirty-five one-hundredths to E. C. Paine, Baltimore, Md. Track-sanding device. No. 937,358; Oct. 19; Sp. p. 3657; Gaz. vol. 147; p. 629.



*Alphabetical list of patentees—Continued.*

- Brown, M. C., Tupelo, Miss. Weight-cabinet. No. 936,406; Oct. 12; Sp. p. 1691; Gaz. vol. 147; p. 285.
- Brown, M. E., Cavalier, N. D. Washboard. No. 916,263; Mar. 23; Sp. p. 5296; Gaz. vol. 140; p. 937.
- Brown Manufacturing Company. (See Brown, U. H., assignor.)
- Brown, N. (See Waterman and Brown.)
- Brown, N. E., deceased; E. W. Brown, E. N. Hatch, and W. M. Brown, executors, assignors to St. Joseph Iron Works, St. Joseph, Mich. Veneer-cutting machine. No. 918,651; Apr. 20; Sp. p. 3499; Gaz. vol. 141; p. 625.
- Brown, N. H., assignor to Williams, Brown & Earle, Philadelphia, Pa. Safety appliance for reeling moving-picture films. No. 930,037; Aug. 3; Sp. p. 867; Gaz. vol. 145; p. 140.
- Brown, O., *et al.* (See Nordlie, J. E., assignor.)
- Brown, O., Morrison, Iowa. Check-row planter. No. 913,466; Feb. 23; Sp. p. 5029; Gaz. vol. 139; p. 898.
- Brown, O. C., *et al.* (See Nordlie, J. E., assignor.)
- Brown, O. F. (See Shankland and Brown.)
- Brown, O. T., New Vienna, Ohio. Radiator. No. 912,067; Feb. 9; Sp. p. 2149; Gaz. vol. 139; p. 371.
- Brown, P., Troy, Idaho. Retort for the destructive distillation of resinous woods. No. 917,531; Apr. 6; Sp. p. 1122; Gaz. vol. 141; p. 196.
- Brown, P. A., Denver, Colo. Automatic signal-alarm. No. 912,359; Feb. 16; Sp. p. 2757; Gaz. vol. 139; p. 502.
- Brown, P. H., Temple, Tex. Capsule-filler. No. 928,356; July 20; Sp. p. 3464; Gaz. vol. 144; p. 611.
- Brown, P. S. (See Kern, E. F., assignor.)
- Brown, P. W. (See Cecil, R. E., assignor.)
- Brown, R., Liverpool, England. Apparatus for trimming and elevating coal and the like. No. 922,387; May 18; Sp. p. 4702; Gaz. vol. 142; p. 814.
- Brown, R., Windber, Pa. Automatic cut-off for trolley-lines. No. 930,150; Aug. 3; Sp. p. 1115; Gaz. vol. 145; p. 181.
- Brown, R., Beaver, Okla. Mail-delivery case. No. 943,766; Dec. 21; Sp. p. 3734; Gaz. vol. 149; p. 650.
- Brown, R., Jr., Ilford, assignor to N. K. Capsule Syndicate Limited, London, England. Bottle-stopper. No. 924,532; June 8; Sp. p. 3086; Gaz. vol. 143; p. 505.
- Brown, R. C., Lynchburg, Va. Wall-frame for air-registers. No. 943,298; Dec. 14; Sp. p. 2725; Gaz. vol. 149; p. 460.
- Brown, R. E., and C. G. Wyatt, St. Joseph, Mo. Sectional foldable display-case. No. 929,074; July 27; Sp. p. 4906; Gaz. vol. 144; p. 875.
- Brown, R. H., Los Angeles, Cal. Lineman's combination-tool. No. 921,792; May 18; Sp. p. 3493; Gaz. vol. 142; p. 621.
- Brown, R. H., New Haven, Conn. Wire-stitching machine. No. 923,134; June 1; Sp. p. 16; Gaz. vol. 143; p. 5.
- Brown, R. H., Sheephead Bay, and R. J. Brown, Tottenville, N. Y. Ink-well cover. No. 943,733; Dec. 21; Sp. p. 3675; Gaz. vol. 149; p. 639.
- Brown, R. J. (See Brown, R. H. and R. J.)
- Brown, R. J., assignor of one-half to J. D. McAfee, Cleveland, Ohio. Fire-escape. No. 916,100; Mar. 23; Sp. p. 4994; Gaz. vol. 140; p. 885.
- Brown, R. L., Chicago, Ill. Brake-shoe. No. 910,494; Jan. 26; Sp. p. 4232; Gaz. vol. 18; p. 3778.
- Brown, R. P., Philadelphia, Pa. Recording instrument. No. 937,047; Oct. 19; Sp. p. 3008; Gaz. vol. 147; p. 528.
- Brown, R. P., assignor to Brown & Bailey Company, Philadelphia, Pa. Collapsible box. No. 927,485; July 13; Sp. p. 1605; Gaz. vol. 144; p. 288.
- Brown, R. R., Livermore, Cal. Tire. No. 916,264; Mar. 23; Sp. p. 5297; Gaz. vol. 140; p. 937.
- Brown, R. R., assignor to National Sewing Machine Co., Belvidere, Ill. Sewing-machine cabinet. No. 920,821; May 4; Sp. p. 1477; Gaz. vol. 142; p. 238.
- Brown, R. W., Amsterdam, N. Y. Electric heater. No. 943,384; Dec. 14; Sp. p. 2906; Gaz. vol. 149; p. 489.
- Brown, S. A., Buffalo, N. Y. Battery-holder. No. 925,452; June 22; Sp. p. 4948; Gaz. vol. 143; p. 873.
- Brown, S. E., Marshall, Mo. Attachment for listers. No. 920,016; Apr. 27; Sp. p. 6522; Gaz. vol. 141; p. 1113.
- Brown, S. G., London, England. Electric conductor. No. 912,801; Feb. 16; Sp. p. 3721; Gaz. vol. 139; p. 654.
- Brown, S. G., London, England. Wireless telegraphy. No. 934,883; Sept. 21; Sp. p. 3832; Gaz. vol. 146; p. 665.
- Brown, S. M., High Road, Wood Green, England. Wheel for road-vehicles. No. 935,245; Sept. 28; Sp. p. 4566; Gaz. vol. 146; p. 812.
- Brown, T., assignor to Richardson Manufacturing Company, Worcester, Mass. Manure-spreader. No. 920,260; May 4; Sp. p. 361; Gaz. vol. 142; p. 56.
- Brown, T., assignor to Richardson Manufacturing Company, Worcester, Mass. Manure-spreader. No. 944,479; Dec. 28; Sp. p. 5252; Gaz. vol. 149; p. 920.
- Brown, T. D., assignor to Lisk Manufacturing Co., Canandaigua, N. Y. Oil-can. No. 933,881; Sept. 14; Sp. p. 1873; Gaz. vol. 146; p. 309.
- Brown, T. E. (See Gee, A., assignor.)
- Brown, T. P., assignor to Simplex Piano Player Co., Worcester, Mass. Music-sheet-controlling device. No. 912,068; Feb. 9; Sp. p. 2150; Gaz. vol. 139; p. 371.
- Brown, T. P., assignor to Simplex Piano Player Co., Worcester, Mass. Double tracker mechanism. No. 919,317; Apr. 27; Sp. p. 5061; Gaz. vol. 141; p. 879.
- Brown, T. P., assignor to Simplex Piano Player Company, Worcester, Mass. Pneumatic musical instrument. No. 928,357; July 20; Sp. p. 3466; Gaz. vol. 144; p. 611.
- Brown, T. P., assignor to Simplex Piano Player Company, Worcester, Mass. Pedal and panel mechanism. No. 939,386; Nov. 9; Sp. p. 2095; Gaz. vol. 148; p. 350.
- Brown, T. P., assignor to Simplex Piano Player Co., Worcester, Mass. Tracker mechanism for musical instruments. No. 939,387; Nov. 9; Sp. p. 2097; Gaz. vol. 148; p. 350.
- Brown, T. P., assignor to Simplex Piano Player Co., Worcester, Mass. Note-accenting device for musical instruments. No. 941,491; Nov. 30; Sp. p. 6721; Gaz. vol. 148; p. 1139.
- Brown, T. P., assignor to Simplex Piano Player Co., Worcester, Mass. Mechanism for guiding music-sheets. No. 942,956; Dec. 14; Sp. p. 1987; Gaz. vol. 149; p. 344.
- Brown, T. R., Milton, Pa. Steam-pump. No. 924,140; June 8; Sp. p. 2255; Gaz. vol. 143; p. 373.
- Brown, T. R., Milton, Pa. System of boiler-feed. No. 924,141; June 8; Sp. p. 2258; Gaz. vol. 143; p. 374.
- Brown, U. H., assignor to Brown Manufacturing Company, Zanesville, Ohio. Axle-skein. No. 923,135; June 1; Sp. p. 20; Gaz. vol. 143; p. 5.
- Brown, W., Brooklyn, N. Y. Window attachment. No. 917,747; Apr. 13; Sp. p. 1553; Gaz. vol. 141; p. 294.
- Brown, W., Binghamton, N. Y. Game-board. No. 930,151; Aug. 3; Sp. p. 1116; Gaz. vol. 145; p. 181.
- Brown, W. A., Chicago, Ill. Pneumatic-despatch apparatus. No. 933,527; Sept. 7; Sp. p. 1171; Gaz. vol. 146; p. 169.
- Brown, W. C., Fontanelle, Iowa. Cooking utensil. No. 921,077; May 11; Sp. p. 2013; Gaz. vol. 142; p. 354.
- Brown, W. C., Toronto, Ontario, Canada. Auxiliary spring. No. 925,559; June 22; Sp. p. 5150; Gaz. vol. 143; p. 908.
- Brown, W. C., and T. Johnson, Fontanet, Ind. Drilling-machine. No. 914,479; Mar. 9; Sp. p. 1739; Gaz. vol. 140; p. 298.
- Brown, W. E., *et al.* (See Wood, J., assignor.)
- Brown, W. E., Colorado Springs, Colo. Crib attachment for bedsteads. No. 912,445; Feb. 16; Sp. p. 2931; Gaz. vol. 139; p. 531.
- Brown, W. F., assignor of one-half to W. Smith, Goldthwaite, Tex. Crate. No. 917,709; Apr. 6; Sp. p. 1453; Gaz. vol. 141; p. 255.
- Brown, W. F., Minneapolis, Minn. Rotary plow. No. 921,357; May 11; Sp. p. 2605; Gaz. vol. 142; p. 449.
- Brown, W. H., Philadelphia, Pa. Reversing mechanism for rotating shafts. No. 913,195; Feb. 23; Sp. p. 4482; Gaz. vol. 139; p. 807.
- Brown, W. L. (See Nelson and Brown.)
- Brown, W. M. (See Sims and Brown.)
- Brown, W. M., *et al.*, executors. (See Brown, N. E.)
- Brown, W. M., Johnstown, Pa., assignor to Lorain Steel Company. Spring-switch. No. 920,534; May 4; Sp. p. 897; Gaz. vol. 142; p. 144.
- Brown, W. M., Johnstown, Pa., assignor to Lorain Steel Company. Surface-contact electric-railway system. No. 930,644; Aug. 10; Sp. p. 2104; Gaz. vol. 145; p. 367.
- Brown, W. M., Johnstown, Pa., assignor to Lorain Steel Company. Switch-stand. No. 930,645; Aug. 10; Sp. p. 2106; Gaz. vol. 145; p. 367.
- Brown, W. N., C. V., and L. L., Henderson, Tex. Tanning apparatus. No. 916,837; Mar. 30; Sp. p. 6414; Gaz. vol. 140; p. 1147.
- Brown, W. W., Fort Smith, Ark. Device for raising car-steps. No. 925,453; June 22; Sp. p. 4949; Gaz. vol. 143; p. 874.
- Browne, A. W., Prince Bay, N. Y., assignor to S. S. White Dental Mfg. Co., Philadelphia, Pa. Adjustable wall-bracket. No. 918,276; Apr. 13; Sp. p. 2680; Gaz. vol. 141; p. 474.
- Browne, A. W., Prince Bay, N. Y., assignor to S. S. White Dental Mfg. Co., Philadelphia, Pa. Dental-engine-handpiece swivel. No. 941,612; Nov. 30; Sp. p. 6960; Gaz. vol. 148; p. 1177.
- Browne Apparatus Company. (See Browne, R. C., assignor.)
- Browne, C. E. (See Cassleman, C., assignor.)
- Browne, D. H., Copper Cliff, Ontario, Canada, assignor to Canadian Copper Company, Cleveland, Ohio. Manufacturing nickel and nickel-copper alloys. No. 934,278; Sept. 14; Sp. p. 2646; Gaz. vol. 146; p. 440.
- Browne, D. L. V., assignor to J. B. Miller, San Francisco, Cal. Means for the purification of water. No. 910,495; Jan. 26; Sp. p. 4233; Gaz. vol. 138; p. 778.
- Browne, G. P., assignor of one-half to J. H. Callahan, Montreal, Quebec, Canada. Signal-lantern. No. 943,808; Dec. 21; Sp. p. 3824; Gaz. vol. 149; p. 665.
- Browne, H. P. C., New York, N. Y. Hub-odometer. No. 942,883; Dec. 14; Sp. p. 1806; Gaz. vol. 149; p. 319.

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- Browne, R. B., Maspeth, N. Y. Sash-operating mechanism. No. 926,094; June 29; Sp. p. 6298; Gaz. vol. 143; p. 1119.
- Browne, R. C., assignor to Browne Apparatus Company, Salem, Mass. Sparking plug. No. 920,257; May 4; Sp. p. 342; Gaz. vol. 142; p. 54.
- Browne, R. C., Salem, assignor to J. Abbott, trustee, Winchester, Mass. Telephone-transmitter. No. 920,424; May 4; Sp. p. 686; Gaz. vol. 142; p. 108.
- Browne, R. C., Salem, assignor to J. Abbott, trustee, Winchester, Mass. Telephone-transmitter. No. 920,425; May 4; Sp. p. 688; Gaz. vol. 142; p. 108.
- Browne, R. L., and A. R. Howell, New York, N. Y. Circuit-breaker. No. 931,264; Aug. 17; Sp. p. 3475; Gaz. vol. 145; p. 602.
- Browne, R. S., Alameda, Cal. Filter. No. 938,636; Nov. 2; Sp. p. 427; Gaz. vol. 148; p. 65.
- Browne, S. H., Pittsburg, Pa., assignor to American Telephone and Telegraph Company. Call-distributing telephone-exchange details. No. 913,613; Feb. 23; Sp. p. 5359; Gaz. vol. 139; p. 948.
- Browne, S. H., Pittsburg, Pa., assignor to American Telephone and Telegraph Company. System for telephone-trunking. No. 920,258; May 4; Sp. p. 345; Gaz. vol. 142; p. 54.
- Browne, S. H., Pittsburg, Pa., assignor to American Telephone and Telegraph Company. Call-distributing telephone-exchange system. No. 920,259; May 4; Sp. p. 354; Gaz. vol. 142; p. 55.
- Browne, S. H., Pittsburg, Pa., assignor to American Telephone and Telegraph Company. Call-distributing telephone-exchange system. No. 927,025; July 6; Sp. p. 670; Gaz. vol. 144; p. 109.
- Browne, S. H., Pittsburg, Pa., assignor to American Telephone and Telegraph Company. Apparatus and system for measuring telephone service. No. 938,039; Oct. 26; Sp. p. 5086; Gaz. vol. 147; p. 875.
- Brownell, E. P. (See Bailey and Brownell.)
- Brownell, G. C. (See Horne, J. A., assignor.)
- Brownell, H. A., Flint, Mich. Culvert. No. 914,110; Mar. 2; Sp. p. 977; Gaz. vol. 140; p. 154.
- Brownfield, D. L., Farmer, Wash. Steam-boiler furnace. No. 932,440; Aug. 31; Sp. p. 5931; Gaz. vol. 145; p. 1034.
- Brownfield, D. L., assignor of two-thirds to J. and R. Brownfield, Farmer, Wash. Traction-wheel. No. 913,257; Feb. 23; Sp. p. 4612; Gaz. vol. 139; p. 827.
- Brownfield, J., *et al.* (See Brownfield, D. L., assignor.)
- Brownfield, R., *et al.* (See Brownfield, D. L., assignor.)
- Browning, D. B., Morrison, Okla. Cultivator attachment. No. 914,237; Mar. 2; Sp. p. 1243; Gaz. vol. 140; p. 194.
- Browning, D. B., Morrison, Okla. Cultivator attachment. No. 937,674; Oct. 19; Sp. p. 4311; Gaz. vol. 147; p. 734.
- Browning, E. H., Nottingham, Ohio. Gearing for indexing mechanisms. No. 930,934; Aug. 10; Sp. p. 2700; Gaz. vol. 145; p. 462.
- Browning, J. B., *et al.* (See Price, G. A., assignor.)
- Browning, J. R., Springfield, La. Baling-press. No. 927,402; July 6; Sp. p. 1403; Gaz. vol. 144; p. 232.
- Brownlee, W. M., Jefferson City, Tenn. Fusible tablet for sealing receptacles. No. 937,565; Oct. 19; Sp. p. 4118; Gaz. vol. 147; p. 701.
- Browncombe, A. J., Beccive, New South Wales, Australia. Comb-cleaning attachment for strippers or harvesting-machines. No. 915,932; Mar. 23; Sp. p. 4673; Gaz. vol. 140; p. 829.
- Brownson, E. J., Allston, assignor to National Binding Machine Company, Boston, Mass. Strip-serving apparatus. No. 913,614; Feb. 23; Sp. p. 5366; Gaz. vol. 139; p. 948.
- Brownson, L., Haverhill, assignor to National Binding Machine Company, Boston, Mass. Strip-serving device. No. 919,286; Apr. 20; Sp. p. 4975; Gaz. vol. 141; p. 834.
- Brubaker, D. A., Duncansville, Pa. Track-fastening and tie. No. 909,144; Jan. 12; Sp. p. 1480; Gaz. vol. 138; p. 269.
- Brubaker, G. W., Jr., Loudonville, Ohio. Clutch. No. 941,973; Nov. 30; Sp. p. 7732; Gaz. vol. 148; p. 1302.
- Brubaker, L. F., assignor of one-half to M. J. Conroy, Cambridge, Ohio. End-gate for mine-cars. No. 939,944; Nov. 9; Sp. p. 3288; Gaz. vol. 148; p. 542.
- Bruce, A., Glasgow, Scotland. Liquid-measuring device. No. 933,528; Sept. 7; Sp. p. 1172; Gaz. vol. 146; p. 169.
- Bruce, E. S. (See Pollock, J. R., assignor.)
- Bruce, W. M., Chicago Heights, assignor to Kennicott Water-Softener Company, Chicago, Ill. Water-softening apparatus. No. 912,802; Feb. 16; Sp. p. 3723; Gaz. vol. 139; p. 655.
- Bruce, W. M., Chicago Heights, assignor to Kennicott Water-Softener Company, Chicago, Ill. Water-softening apparatus. No. 912,803; Feb. 16; Sp. p. 3727; Gaz. vol. 139; p. 655.
- Bruce, W. M., Jr., Springfield, Ohio, assignor, by mesne assignments, to American Automatic Telephone Company, Rochester, N. Y. Harmonic bell for telephones. No. 920,261; May 4; Sp. p. 362; Gaz. vol. 142; p. 56.
- Bruce, W. M., Jr., Springfield, Ohio, assignor, by mesne assignments, to American Automatic Telephone Company, Rochester, N. Y. Telephone-box. No. 944,412; Dec. 28; Sp. p. 5111; Gaz. vol. 149; p. 897.
- Bruce, W. R., Paisley, and F. Coutts, Elderslie, Scotland. Car-fender. No. 938,209; Oct. 26; Sp. p. 5468; Gaz. vol. 147; p. 934.
- Brucker, F., assignor to Standard Manufacturing Company, Shelby, Ohio. Spring-hinge. No. 918,502; Apr. 20; Sp. p. 3143; Gaz. vol. 141; p. 576.
- Bruckheimer, M. (See Fawcett, W. N., assignor.)
- Bruckner, R. E., Mount Vernon, assignor to Commercial Acetylene Company, New York, N. Y. Lamp. No. 910,455; Jan. 19; Sp. p. 4137; Gaz. vol. 138; p. 741.
- Bruckner, R. E., Mount Vernon, assignor to Commercial Acetylene Company, New York, N. Y. Welding and brazing tool. No. 935,458; Sept. 28; Sp. p. 4985; Gaz. vol. 146; p. 881.
- Bruckner, T., Vienna, Austria-Hungary. Felly for wheels with pneumatic tires. No. 925,560; June 22; Sp. p. 5152; Gaz. vol. 143; p. 908.
- Bruderlein, C., New York, N. Y. Woodworking-machine. No. 911,200; Feb. 2; Sp. p. 349; Gaz. vol. 139; p. 61.
- Bruechert, I. J., Omaha, Nebr. Game apparatus. No. 908,946; Jan. 5; Sp. p. 1048; Gaz. vol. 138; p. 169.
- Brueckmann, W. H., Newark, N. J. Type-casting machine. No. 925,866; June 22; Sp. p. 5827; Gaz. vol. 143; p. 1006.
- Brueckner, F. E., Lawrence, Mass. Beer-faucet. No. 919,124; Apr. 20; Sp. p. 4474; Gaz. vol. 141; p. 781.
- Brueggemann, J. G. (See Sapper and Brueggemann.)
- Bruff, C. M. (See Blish and Bruff.)
- Bruffat, M., Los Angeles, Cal. Reclining rocking-chair. No. 940,233; Nov. 16; Sp. p. 3951; Gaz. vol. 148; p. 672.
- Brügmann, W., Dortmund, Germany. Apparatus for pouring metal into a series of molds. No. 929,547; July 27; Sp. p. 5869; Gaz. vol. 144; p. 1031.
- Bruhn, T. C., Altona-Ottensen, Germany. Loose-leaf book. No. 933,882; Sept. 14; Sp. p. 1874; Gaz. vol. 146; p. 309.
- Brukner, M., Budapest, Austria-Hungary. Reinforced-concrete railway-sleeper. No. 912,227; Feb. 9; Sp. p. 2430; Gaz. vol. 139; p. 419.
- Brumbaugh, G. M. (See Olop, S., assignor.)
- Brumbaugh, O., Louisville, Ohio. Silo construction. No. 921,586; May 11; Sp. p. 3044; Gaz. vol. 142; p. 523.
- Brun, F. A., Paris, France. Manufacture of gear-wheels. No. 935,636; Oct. 5; Sp. p. 19; Gaz. vol. 147; p. 5.
- Brun, J., Christiania, Norway. Dental-instrument tray. No. 926,977; July 6; Sp. p. 562; Gaz. vol. 144; p. 92.
- Brunacci, L., New York, N. Y. Electric safety-razor. No. 911,472; Feb. 2; Sp. p. 849; Gaz. vol. 139; p. 149.
- Brunacci, L., New York, N. Y. Safety-razor. No. 933,415; Sept. 7; Sp. p. 854; Gaz. vol. 146; p. 133.
- Brundage, A. N. (See Eccleston, S. S., assignor.)
- Brundrit, J., Liverpool, England. Pump, circulator, and like appliance. No. 908,738; Jan. 5; Sp. p. 660; Gaz. vol. 138; p. 102.
- Bruner, C. B., Princeton, Ind. Fence-post mold. No. 920,017; Apr. 27; Sp. p. 6523; Gaz. vol. 141; p. 1113.
- Bruner, O. W., assignor to R. J. Gunning, Chicago, Ill. Baking-pan and the like. No. 914,238; Mar. 2; Sp. p. 1244; Gaz. vol. 140; p. 194.
- Brunet, H. (See Colas, J. E., assignor.)
- Brunhouse, F. C. (See Foss, W. O., assignor.)
- Brunhouse, F. C., Philadelphia, Pa. Speed-changing mechanism. No. 921,078; May 11; Sp. p. 2014; Gaz. vol. 142; p. 354.
- Brunhouse, F. C., Philadelphia, Pa. Speed-changing mechanism. No. 936,300; Oct. 12; Sp. p. 1431; Gaz. vol. 147; p. 249.
- Brunker, H. C., Middleport, Ohio. Nut-lock. No. 929,548; July 27; Sp. p. 5870; Gaz. vol. 144; p. 1031.
- Brunker, H. C., Middleport, Ohio. Drop-bottom dump-car. No. 934,279; Sept. 14; Sp. p. 2647; Gaz. vol. 146; p. 440.
- Brunn, O. A., assignor to N. Bendixen, Copenhagen, Denmark. Electric time-switch. No. 927,486; July 13; Sp. p. 1606; Gaz. vol. 144; p. 288.
- Brunner, E. H., and I. L. Higgins, Memphis, Tenn. Rotatable liquor-cooler. No. 912,281; Feb. 16; Sp. p. 2587; Gaz. vol. 139; p. 477.
- Brunnschweiler, J., Hauptwil, Switzerland. Embroidering-machine. No. 939,471; Nov. 9; Sp. p. 2284; Gaz. vol. 148; p. 378.
- Bruns, G. C. (See Krech and Bruns.)
- Brunson, A. J., North Plainfield, N. J. Fruit-cutter. No. 909,145; Jan. 12; Sp. p. 1481; Gaz. vol. 138; p. 269.
- Brunson, F. E., Custer, Wash. Self-serving table. No. 934,993; Sept. 28; Sp. p. 4058; Gaz. vol. 146; p. 729.
- Brunswick-Balke-Collender Company. (See Davenport, H. F., assignor.)
- Brunswick-Balke-Collender Company. (See McIntire, J. N., assignor.)
- Brunswick Refrigerating Company. (See Whitaker, R., assignor.)
- Brunton, J. L., and W. P., Liverpool, England. Hydraulic valve. No. 932,955; Aug. 31; Sp. p. 7006; Gaz. vol. 145; p. 1204.
- Brunton, W. P. (See Brunton, J. L. and W. P.)



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- Brush, A. P., Detroit, Mich. Spring suspension. No. 923,765; June 1; Sp. p. 1438; Gaz. vol. 143; p. 223.
- Brush, A. P., Detroit, Mich. Friction clutch or brake. No. 930,726; Aug. 10; Sp. p. 2264; Gaz. vol. 145; p. 394.
- Brush, A. P., Detroit, Mich. Planetary transmission mechanism. No. 944,597; Dec. 28; Sp. p. 5546; Gaz. vol. 149; p. 962.
- Brush, C. L., Bourne, Oreg. Ticket-holder. No. 912,804; Feb. 16; Sp. p. 3729; Gaz. vol. 139; p. 656.
- Brush, F. P., Detroit, Mich. Block-signaling system. No. 939,973; Nov. 16; Sp. p. 3349; Gaz. vol. 148; p. 579.
- Brush, F. P., Detroit, Mich. Railway signaling apparatus. No. 939,974; Nov. 16; Sp. p. 3356; Gaz. vol. 148; p. 580.
- Brust, F. P., Seattle, Wash. Combined wreck-locator and life-saver. No. 927,772; July 13; Sp. p. 2219; Gaz. vol. 144; p. 385.
- Bryan, A., Minworth Hall, near Birmingham, and W. Jones, Stourbridge, England. Sprinkler or device for spraying and distributing liquids. No. 937,507; Oct. 19; Sp. p. 4005; Gaz. vol. 147; p. 680.
- Bryan, C. H., Chicago, Ill. Chain rope. No. 924,313; June 8; Sp. p. 2666; Gaz. vol. 143; p. 434.
- Bryan, C. H., assignor of one-half to H. K. Holsman, Chicago, Ill. Lamp for automobiles, &c. No. 910,268; Jan. 19; Sp. p. 3759; Gaz. vol. 138; p. 677.
- Bryan, J., Pittsburg, and H. Etheridge, McKeesport, Pa. Trolley-wire hanger. No. 920,262; May 4; Sp. p. 364; Gaz. vol. 142; p. 57.
- Bryan, J. H. B., Buffalo, N. Y., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Driving mechanism for planer-platens. No. 918,652; Apr. 20; Sp. p. 3500; Gaz. vol. 141; p. 626.
- Bryan, J. P., Philadelphia, Pa. Changeable-letter sign. No. 919,816; Apr. 27; Sp. p. 6149; Gaz. vol. 141; p. 1048.
- Bryan, S., San Diego, Cal. Street-car trolley-pole wheel. No. 913,615; Feb. 23; Sp. p. 5369; Gaz. vol. 139; p. 949.
- Bryan, W. H., Baltimore, Md. Bottle-lock. No. 940,125; Nov. 16; Sp. p. 3724; Gaz. vol. 148; p. 635.
- Bryan, W. T. (See Ryburg and Bryan.)
- Bryant, A. S. (See Horrell and Bryant.)
- Bryant, C. B., *et al.* (See Fullbright, T., assignor.)
- Bryant, C. D., Granite Falls, Wash. Saw-guide for ax-handles. No. 938,367; Oct. 26; Sp. p. 5820; Gaz. vol. 147; p. 987.
- Bryant, C. F., Washington, D. C. Deposit and collection receptacle. No. 933,883; Sept. 14; Sp. p. 1875; Gaz. vol. 146; p. 310.
- Bryant, C. J., Chicago, Ill. Index-tab. No. 925,154; June 15; Sp. p. 4385; Gaz. vol. 143; p. 748.
- Bryant, C. J., Chicago, Ill. Index. No. 927,107; July 6; Sp. p. 861; Gaz. vol. 144; p. 138.
- Bryant, E. S., Detroit, Mich., assignor to P. L. Hussey, Cleveland, Ohio. Steering-wheel. No. 920,018; Apr. 27; Sp. p. 6525; Gaz. vol. 141; p. 1114.
- Bryant Electric Company. (See Badeau and Poole, assignors.)
- Bryant Electric Company. (See Castonguay, L. J., assignor.)
- Bryant Electric Company. (See Goodridge, G. W., assignor.)
- Bryant Electric Company. (See Keefer, P. S., assignor.)
- Bryant Electric Company. (See Poole, F. P., assignor.)
- Bryant Electric Company. (See Seeley, F. E., assignor.)
- Bryant Electric Company. (See Slady, F. W., assignor.)
- Bryant Electric Company. (See Thomas, G. B., assignor.)
- Bryant, G. H., Chicago, Ill. Car-wheel and manufacture. No. 924,314; June 8; Sp. p. 2667; Gaz. vol. 143; p. 434.
- Bryant, G. L., Victor, Colo. Air-heater. No. 941,756; Nov. 30; Sp. p. 7280; Gaz. vol. 148; p. 1227.
- Bryant, H. G., Hartford, Conn. Combined hinge and article-hanger. No. 914,697; Mar. 9; Sp. p. 2203; Gaz. vol. 140; p. 370.
- Bryant, H. H. (See Bryant, J. M. and H. H.)
- Bryant, J. H., New Orleans, La. Garment-supporter. No. 927,323; July 6; Sp. p. 1257; Gaz. vol. 144; p. 207.
- Bryant, J. M., Benwood, W. Va., and H. H. Bryant, Bellaire, Ohio. Curtain-shade-roller support. No. 916,265; Mar. 23; Sp. p. 5298; Gaz. vol. 140; p. 938.
- Bryant, J. M., Benwood, W. Va., and H. H. Bryant, Bellaire, Ohio, assignors of one-third to W. W. Gray, Benwood, and C. E. Gray, Moundsville, W. Va. Bracket or support for curtain-shade rollers. No. 940,507; Nov. 16; Sp. p. 4588; Gaz. vol. 148; p. 765.
- Bryant, J. N., and J. B. McDonald, Nashville, Tenn. Lumber-rule. No. 914,635; Mar. 9; Sp. p. 2053; Gaz. vol. 140; p. 350.
- Bryant, M. L., *et al.* (See Fullbright, T., assignor.)
- Bryant, R. B., Nashville, Ark. Railway electric switch. No. 943,809; Dec. 21; Sp. p. 3825; Gaz. vol. 149; p. 665.
- Bryant, R. F., assignor of one-half to J. F. Harwood and J. H. Wood, Bloomington, Ill. Wheel-tire. No. 910,457; Jan. 19; Sp. p. 4139; Gaz. vol. 138; p. 742.
- Bryant, R. S., Columbus, Ohio. Securing device for tire-retaining flanges. No. 912,537; Feb. 16; Sp. p. 3138; Gaz. vol. 139; p. 563.
- Bryant, R. S., assignor to Bryant Steel Wheel and Rim Company, Columbus, Ohio. Locking-ring for wheel-rims. No. 914,381; Mar. 9; Sp. p. 1559; Gaz. vol. 140; p. 265.
- Bryant Steel Wheel and Rim Company. (See Bryant, R. S., assignor.)
- Bryant, T. W., Torrington, Conn. Skate-roller. No. 913,687; Mar. 2; Sp. p. 16; Gaz. vol. 140; p. 5.
- Bryant, W. A., assignor of nine-tenths to J. A. Lancaster, W. W. Wilken, and J. R. Gamble, Wetumpka, Ala. Concrete fence-post. No. 943,648; Dec. 21; Sp. p. 3512; Gaz. vol. 149; p. 611.
- Bryant, W. L., Springfield, Vt. Multispindle metal-grinding machine. No. 925,867; June 22; Sp. p. 5831; Gaz. vol. 143; p. 1006.
- Bryant Zinc Company. (See Hovey, H. J., assignor.)
- Bryar, G., Boston, Mass. Nut-lock. No. 942,194; Dec. 7; Sp. p. 359; Gaz. vol. 149; p. 55.
- Bryar, G., Brighton, assignor of one-third to S. M. Robson, one-third to A. C. Harvey, Springfield, and one-third to F. Playter, Boston, Mass. Nut-lock. No. 929,827; Aug. 3; Sp. p. 421; Gaz. vol. 145; p. 70.
- Bryce, R. M., Indianapolis, Ind. Turn-key for light-fixtures. No. 936,518; Oct. 12; Sp. p. 1948; Gaz. vol. 147; p. 321.
- Bryk, E. (See Schmidt and Bryk.)
- Bryning, J. E. W., Philadelphia, Pa. Apparatus for molding stone. No. 934,791; Sept. 21; Sp. p. 3657; Gaz. vol. 146; p. 635.
- Bryson, D. K., Pittsburg, Pa., assignor of forty-four one-hundredths to D. P. Osborne, Cleveland, Ohio. Wave-motor. No. 918,956; Apr. 20; Sp. p. 4169; Gaz. vol. 141; p. 729.
- Bubar, B. C., Blaine, Me. Collar-supporter. No. 939,388; Nov. 9; Sp. p. 2099; Gaz. vol. 148; p. 350.
- Bubb, E. F., Chicago, Ill. Automatic switch. No. 941,227; Nov. 23; Sp. p. 6146; Gaz. vol. 148; p. 1031.
- Bucco, P., Newark, N. J. Combined extension-ladder, step-ladder, and scaffold. No. 931,265; Aug. 17; Sp. p. 3476; Gaz. vol. 145; p. 602.
- Buch, A. J., Portsmouth, Ohio. Shoe-last. No. 939,212; Nov. 9; Sp. p. 1640; Gaz. vol. 148; p. 290.
- Buchan, J. W., assignor of one-third to W. L. Taylor, Eastman, Ga. Combined steering and driving axle. No. 939,795; Nov. 9; Sp. p. 2981; Gaz. vol. 148; p. 490.
- Buchanan, F., Dayton, Ohio. Headlight. No. 916,266; Mar. 23; Sp. p. 5299; Gaz. vol. 140; p. 938.
- Buchanan, J. (See Fischer, O., assignor.)
- Buchanan, J., Chattanooga, Tenn. Plow. No. 910,496; Jan. 26; Sp. p. 4234; Gaz. vol. 138; p. 779.
- Buchanan, J., Chattanooga, Tenn. Plow. No. 933,529; Sept. 7; Sp. p. 1173; Gaz. vol. 146; p. 169.
- Buchanan, J. F., Indianapolis, Ind. Brush. No. 918,957; Apr. 20; Sp. p. 4173; Gaz. vol. 141; p. 729.
- Buchanan, J. P., Jersey City, N. J., assignor to M. Calm, New York, N. Y. Elevator for liquids. No. 922,749; May 25; Sp. p. 5460; Gaz. vol. 142; p. 961.
- Buchanan, J. P. and F. B. Wiegand, Cleveland, Ohio. Relay. No. 909,146; Jan. 12; Sp. p. 1482; Gaz. vol. 138; p. 269.
- Buchanan, J. W., Asheville, N. C. Reversible moldboard-plow. No. 943,516; Dec. 14; Sp. p. 3187; Gaz. vol. 149; p. 536.
- Buchanan, S. E. G., Newport, Ky. Picture hanging and removing device. No. 929,654; Aug. 3; Sp. p. 15; Gaz. vol. 145; p. 5.
- Buchannan, E. M., Sulphur Springs, assignor of one-half to W. A. Bradford, Birthright, Tex. Railway-gate. No. 918,653; Apr. 20; Sp. p. 3505; Gaz. vol. 141; p. 626.
- Buchenberg, A. E., assignor to Toledo Electric Welding Company, Toledo, Ohio. Electric metal-working apparatus. No. 913,616; Feb. 23; Sp. p. 5371; Gaz. vol. 139; p. 949.
- Buchenberg, A. E., assignor to Toledo Electric Welding Company, Toledo, Ohio. Electric welding-machine. No. 932,441; Aug. 31; Sp. p. 5932; Gaz. vol. 145; p. 1034.
- Buchenberg, A. E., assignor to Toledo Electric Welding Company, Toledo, Ohio. Electric welding-machine. No. 943,861; Dec. 21; Sp. p. 3927; Gaz. vol. 149; p. 683.
- Bucher & Gibbs Plow Company. (See Gould, M., assignor.)
- Bucher & Gibbs Plow Company. (See Niesz, F. B., assignor.)
- Bucherer, F., Bayonne, N. J. Power-transmitting mechanism. No. 910,901; Jan. 26; Sp. p. 5044; Gaz. vol. 138; p. 908.
- Buchhop, F., New York, N. Y., assignor to Meyrowitz Manufacturing Company. Lens-grinding implement. No. 937,763; Oct. 26; Sp. p. 4510; Gaz. vol. 147; p. 783.
- Buchhop, F., New York, N. Y., assignor to Meyrowitz Manufacturing Company. Lens-grinding machine. No. 938,459; Nov. 2; Sp. p. 12; Gaz. vol. 148; p. 4.
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- Buchi, R., Chicago, Ill. Apple-peeling machine. No. 938,822; Nov. 2; Sp. p. 801; Gaz. vol. 148; p. 129.
- Büchler, H., Zurich, Switzerland. Automatically-movable dam-crest. No. 914,789; Mar. 9; Sp. p. 2387; Gaz. vol. 140; p. 401.

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- Buchmaier, H. C., assignor, by mesne assignments, of one-half to W. H. Van Nest, Newark, N. J. Garbage and like can. No. 931,266; Aug. 17; Sp. p. 3480; Gaz. vol. 145; p. 603.
- Buchmann, E. G., Milwaukee, Wis. Support and driving mechanism for rotary tools. No. 929,282; July 27; Sp. p. 5362; Gaz. vol. 144; p. 944.
- Buck, A. F., Granada, Colo. Marker attachment for planters. No. 913,098; Feb. 23; Sp. p. 4276; Gaz. vol. 139; p. 775.
- Buck, C. E., Boston, Mass. Adjustable support for books, &c. No. 925,284; June 15; Sp. p. 4622; Gaz. vol. 143; p. 790.
- Buck, C. J. (See Whitman, (t. W., assignor.)
- Buck, C. M., Huntington, W. Va. Expansion cutter-head for boring-bars. No. 922,252; May 18; Sp. p. 4443; Gaz. vol. 142; p. 771.
- Buck, C. U., Wellsboro, assignor to Buck Explosive Company, Coudersport, Pa. Explosive. No. 940,580; Nov. 16; Sp. p. 4743; Gaz. vol. 148; p. 790.
- Buck Explosive Company. (See Buck, C. U., assignor.)
- Buck, G. H., New York, N. Y. Hammock-support. No. 944,661; Dec. 28; Sp. p. 5668; Gaz. vol. 149; p. 983.
- Buck, H. W., New York, and E. M. Hewlett, Schenectady, N. Y., assignors to General Electric Company. Suspension of high-tension lines. No. 925,561; June 22; Sp. p. 5153; Gaz. vol. 143; p. 908.
- Buck, M. L., Lansing, Mich. Coin-actuated mechanism. No. 930,457; Aug. 10; Sp. p. 1680; Gaz. vol. 145; p. 303.
- Buck, M. L., Lansing, Mich. Coin-controlled apparatus for dispensing liquids. No. 943,649; Dec. 21; Sp. p. 3513; Gaz. vol. 149; p. 611.
- Buck, M. M., Machias, N. Y. Electric heater for curling-irons. No. 928,936; July 27; Sp. p. 4623; Gaz. vol. 144; p. 829.
- Buck, V. P., Boston, Mass. Shoe-strap cutting and folding machine. No. 918,958; Apr. 20; Sp. p. 4174; Gaz. vol. 141; p. 729.
- Buck, W. T., and G. C. Willis, Vliets, Kans.; said Willis assignor to said Buck. Mail-carrier. No. 943,136; Dec. 14; Sp. p. 2390; Gaz. vol. 149; p. 407.
- Buckbee, E. J. (See McGrath and Buckbee.)
- Buckelew, A. H., Newark, N. J. Indicator for automatic elevator systems. No. 922,849; May 25; Sp. p. 5670; Gaz. vol. 142; p. 994.
- Buckeye Steel Castings Co. (See Whitridge and Goodspeed, assignors.)
- Buckham, G. T. (See Dawson and Buckham.)
- Buckhannon, E. M., Sulphur Springs, Tex. Plow. No. 941,614; Nov. 30; Sp. p. 6965; Gaz. vol. 148; p. 1178.
- Buckhannon, E. M., Sulphur Springs, assignor of one-half to W. A. Bradford, Birthright, Tex. Adjustable arch and beam-balance for cultivator-frames. No. 920,019; Apr. 27; Sp. p. 6526; Gaz. vol. 141; p. 1114.
- Buckingham, B. J., assignor to Buckingham-Rae Company, Chicago, Ill. Garment-holder. No. 915,737; Mar. 23; Sp. p. 4319; Gaz. vol. 140; p. 768.
- Buckingham, B. J., assignor to Buckingham-Rae Company, Chicago, Ill. Extension garment-rack. No. 943,137; Dec. 14; Sp. p. 2393; Gaz. vol. 149; p. 407.
- Buckingham, C. L., et al. (See Colcord, A. B., assignor.)
- Buckingham, F. H., assignor to Standard Computing Scale Company, Limited, Detroit, Mich. Scale. No. 939,213; Nov. 9; Sp. p. 1642; Gaz. vol. 148; p. 290.
- Buckingham, N. A., Jacksonville, Ill. Sash-fastener. No. 914,016; Mar. 2; Sp. p. 787; Gaz. vol. 140; p. 121.
- Buckingham-Rae Company. (See Buckingham, B. J., assignor.)
- Buckius, A. O., Jr., assignor to National Malleable Castings Company, Chicago, Ill. Molding-machine. No. 915,158; Mar. 16; Sp. p. 3121; Gaz. vol. 140; p. 547.
- Buckius, A. O., Jr., assignor to National Malleable Castings Company, Chicago, Ill. Journal-box lid. No. 923,766; June 1; Sp. p. 1441; Gaz. vol. 143; p. 223.
- Buckius, A. O., assignor to National Malleable Castings Company, Chicago, Ill. Pin and clevis. No. 923,767; June 1; Sp. p. 1441; Gaz. vol. 143; p. 223.
- Buckius, A. O., Jr., assignor to National Malleable Castings Company, Chicago, Ill. Anticreeper for rails. No. 938,210; Oct. 26; Sp. p. 5470; Gaz. vol. 147; p. 935.
- Buckius, E. M., Los Angeles, Cal. Reaming attachment for pipe-cutting machines. No. 922,082; May 18; Sp. p. 4098; Gaz. vol. 142; p. 716.
- Buckland, A. L., Marietta, Minn. Hasp-lock. No. 917,843; Apr. 13; Sp. p. 1766; Gaz. vol. 141; p. 324.
- Buckland, S. J., Springfield, Mass. Front-roller equalizer. No. 940,783; Nov. 23; Sp. p. 5198; Gaz. vol. 148; p. 883.
- Bucklen, W., Jr., Marble Rock, Iowa. Respirator. No. 913,688; Mar. 2; Sp. p. 17; Gaz. vol. 140; p. 6.
- Buckler, A., Philadelphia, Pa. Loom-shuttle. No. 916,415; Mar. 30; Sp. p. 5592; Gaz. vol. 140; p. 1013.
- Buckler, M. M., Springfield, Mass. Ink-supplying apparatus. No. 931,560; Aug. 17; Sp. p. 4061; Gaz. vol. 145; p. 700.
- Buckley, E. W. (See Taylor and Buckley.)
- Buckley, J., assignor to C. B. Schoenmehl, Waterbury, Conn. Staple-machine. No. 943,235; Dec. 14; Sp. p. 2589; Gaz. vol. 149; p. 438.
- Buckley, R. W., Jr. (See Williams, T., assignor.)
- Bucklin, C. S., Baltimore, Md. Can-filling machine. No. 931,561; Aug. 17; Sp. p. 4062; Gaz. vol. 145; p. 700.
- Bucklin, C. S., Baltimore, Md., assignor to American Can Company, New York, N. Y. Can lacquering or coating machine. No. 932,678; Aug. 31; Sp. p. 6466; Gaz. vol. 145; p. 1115.
- Buckman, F. N., Green Bay, Wis. Wick-trimming device. No. 920,822; May 4; Sp. p. 1479; Gaz. vol. 142; p. 239.
- Buckman, F. N., and H. A. Lange, Green Bay, Wis. Fence-wire tightener. No. 924,630; June 15; Sp. p. 3315; Gaz. vol. 143; p. 570.
- Buckman, G. L., Washington, D. C. Combined match-case and cigar-tip cutter. No. 924,631; June 15; Sp. p. 3316; Gaz. vol. 143; p. 571.
- Buckman, J. E., Shelbyville, Ky. Gate-operating mechanism. No. 910,782; Jan. 26; Sp. p. 4816; Gaz. vol. 138; p. 871.
- Buckmaster, B. E., Tacoma, Wash. Bank check and draft system. No. 911,374; Feb. 2; Sp. p. 685; Gaz. vol. 139; p. 117.
- Buckminster, F. S., Pasadena, Cal. Micrometer-calliper square. No. 909,538; Jan. 12; Sp. p. 2253; Gaz. vol. 138; p. 397.
- Buckminster, F. S., Los Angeles, Cal. Hat-pin. No. 930,152; Aug. 3; Sp. p. 1117; Gaz. vol. 145; p. 181.
- Buckminster, I. C. (See Mayo and Buckminster.)
- Bucknam, E. S., assignor to J. G. Brill Co., Philadelphia, Pa. Car. No. 912,983; Feb. 16; Sp. p. 4047; Gaz. vol. 139; p. 710.
- Bucknam, E. S., assignor to J. G. Brill Co., Philadelphia, Pa. Semi-convertible car. No. 920,020; Apr. 27; Sp. p. 6529; Gaz. vol. 141; p. 1114.
- Bucknam, E. S., assignor to J. G. Brill Co., Philadelphia, Pa. Car. No. 941,855; Nov. 30; Sp. p. 7506; Gaz. vol. 148; p. 1262.
- Buckner, R. H., Portsmouth, Va. Water-gate. No. 942,365; Dec. 7; Sp. p. 702; Gaz. vol. 149; p. 114.
- Buckwalter, J. R., Kinzers, Pa. Telescoping straw-stacker. No. 908,739; Jan. 5; Sp. p. 661; Gaz. vol. 138; p. 102.
- Buckwalter, J. R., Palmyra, Mo. Barn construction. No. 942,884; Dec. 14; Sp. p. 1811; Gaz. vol. 149; p. 320.
- Buckwalter, T. V., Altoona, Pa. Vehicle. No. 914,111; Mar. 2; Sp. p. 978; Gaz. vol. 140; p. 154.
- Buckwalter, T. V., Altoona, Pa. Mechanical movement. No. 926,238; June 29; Sp. p. 6622; Gaz. vol. 143; p. 1168.
- Buckwalter, T. V., Altoona, Pa. Battery-supporting mechanism. No. 929,118; July 27; Sp. p. 5002; Gaz. vol. 144; p. 890.
- Buckwalter, T. V., Altoona, Pa. Electric controller. No. 933,157; Sept. 7; Sp. p. 245; Gaz. vol. 146; p. 42.
- Buda Foundry & Manufacturing Company. (See Jenkins, M. L., assignor.)
- Buda Foundry & Manufacturing Company. (See Weston, W. S., assignor.)
- Budd, A. V., Philadelphia, Pa. Rotary engine. No. 915,549; Mar. 16; Sp. p. 3902; Gaz. vol. 140; p. 675.
- Budd, E. G. (See Kilburn and Budd.)
- Budd, E. G., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Cushion. No. 911,201; Feb. 2; Sp. p. 352; Gaz. vol. 139; p. 61.
- Budd, E. G., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Seat end. No. 916,416; Mar. 30; Sp. p. 5593; Gaz. vol. 140; p. 1014.
- Budd, E. G., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Frame construction. No. 918,959; Apr. 20; Sp. p. 4178; Gaz. vol. 141; p. 730.
- Budd, E. G., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Upper berth for sleeping-cars. No. 922,850; May 25; Sp. p. 5674; Gaz. vol. 142; p. 994.
- Budd, E. G., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Seat-frame. No. 923,809; June 8; Sp. p. 1618; Gaz. vol. 143; p. 268.
- Budd, E. G., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Frame-joint. No. 923,810; June 8; Sp. p. 1620; Gaz. vol. 143; p. 268.
- Budd, E. G., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Car construction. No. 923,811; June 8; Sp. p. 1622; Gaz. vol. 143; p. 268.
- Budd, E. G., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Frame. No. 929,283; July 27; Sp. p. 5363; Gaz. vol. 144; p. 944.
- Budd, E. G., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Seat-end. No. 933,742; Sept. 14; Sp. p. 1610; Gaz. vol. 146; p. 265.
- Budd, E. G., assignor to Hale-Kilburn Metal Company, Philadelphia, Pa. Cushion. No. 944,662; Dec. 28; Sp. p. 5669; Gaz. vol. 149; p. 998.
- Budd, E. G., and C. A. Condé, assignors to Hale-Kilburn Metal Company, Philadelphia, Pa. Car-seat. No. 909,147; Jan. 12; Sp. p. 1487; Gaz. vol. 138; p. 270.
- Budd, E. G., and J. A. Wollé, assignors to Hale-Kilburn Metal Company, Philadelphia, Pa. Seat-frame. No. 939,389; Nov. 9; Sp. p. 2100; Gaz. vol. 148; p. 351.
- Budde, H. A., Hartford, Conn. Reversing mechanism. No. 912,360; Feb. 16; Sp. p. 2759; Gaz. vol. 139; p. 502.



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- Buddington, F. E. (See Reynolds and Buddington.)
- Buddington, F. E., Chicago, Ill. Gas-burner. No. 917,998; Apr. 13; Sp. p. 2121; Gaz. vol. 141; p. 380.
- Buddle, G. T., Chicago, Ill. Door-hanger. No. 938,823; Nov. 2; Sp. p. 804; Gaz. vol. 143; p. 129.
- Buddy, C. A. (See Hull, H. E., assignor.)
- Buder, R., Gray Summit, Mo. Limekiln. No. 931,180; Aug. 17; Sp. p. 3283; Gaz. vol. 145; p. 572.
- Budge, G. A., Oakland, assignor of one-half to J. T. Ryan Vallejo, Cal. Vehicle-wheel. No. 908,442; Jan. 5; Sp. p. 17; Gaz. vol. 138; p. 4.
- Bueb, J., Dessau, Germany. Gas-furnace. No. 928,494; July 20; Sp. p. 3726; Gaz. vol. 144; p. 655.
- Bueb, J., Dessau, Germany, assignor to Roessler & Hasslacher Chemical Company, New York, N. Y. Making cyanid briquets. No. 912,538; Feb. 16; Sp. p. 3140; Gaz. vol. 139; p. 563.
- Buedel, L., *et al.* (See Hendricks, O. E., assignor.)
- Buehl, L. I., Massillon, Ohio. Frying-pan cover. No. 934,991; Sept. 28; Sp. p. 4054; Gaz. vol. 146; p. 728.
- Buehler, C., assignor to W. Jaspersen, St. Marys, Ohio. Lawn-sprinkler and hose-reel. No. 917,999; Apr. 13; Sp. p. 2122; Gaz. vol. 141; p. 381.
- Buehler, N. (See Flessa, G., assignor.)
- Buehring, F., Grand Junction, Colo. Heater. No. 924,315; June 8; Sp. p. 2609; Gaz. vol. 143; p. 434.
- Buel, D., Columbus, Ohio. Locking device for folding tables. No. 927,773; July 13; Sp. p. 2221; Gaz. vol. 144; p. 385.
- Buell, A. F., Fulton, N. Y. Carrier for radiators. No. 908,740; Jan. 5; Sp. p. 664; Gaz. vol. 138; p. 103.
- Buell, C. E., North Plainfield, N. J., assignor to General Fire Extinguisher Company, New York, N. Y. Fire-extinguishing apparatus. No. 909,985; Jan. 19; Sp. p. 3137; Gaz. vol. 138; p. 580.
- Buell, E. A., Norfolk, Va. Railway-track. No. 925,285; June 15; Sp. p. 4624; Gaz. vol. 143; p. 790.
- Buell, E. A., Norfolk, Va. Railway-tie. No. 925,286; June 15; Sp. p. 4625; Gaz. vol. 143; p. 790.
- Buell, H. J., assignor of one-half to M. F. McLean, Denver, and one-fourth to M. Greenberg, Colorado Springs, Colo. Metal railway-tie. No. 936,519; Oct. 12; Sp. p. 1950; Gaz. vol. 147; p. 322.
- Buelna, G., assignor of one-half to A. E. Burson, Santa Barbara, Cal. Automatic brake for talking-machines. No. 911,202; Feb. 2; Sp. p. 355; Gaz. vol. 139; p. 62.
- Buelna, G., and A. E. Burson, Santa Barbara, Cal. Brake mechanism for talking-machines. No. 930,038; Aug. 3; Sp. p. 870; Gaz. vol. 145; p. 140.
- Buelna, G., and A. E. Burson, Santa Barbara, Cal. Stylus-replenishing mechanism for talking-machines. No. 931,676; Aug. 17; Sp. p. 4299; Gaz. vol. 145; p. 735.
- Buendert, L., Chicago, Ill. Adjustable electric-light hanger. No. 934,992; Sept. 28; Sp. p. 4056; Gaz. vol. 146; p. 728.
- Buercklin, S. W., Prague, Okla. Stringed musical instrument. No. 921,507; May 11; Sp. p. 2911; Gaz. vol. 142; p. 499.
- Buerk, R., Schwenningen, Germany. Counting-machine. No. 922,663; May 25; Sp. p. 5285; Gaz. vol. 142; p. 934.
- Buerkle, F., Allison, Iowa. Line-roller. No. 930,591; Aug. 10; Sp. p. 1994; Gaz. vol. 145; p. 350.
- Buefikofer, R., and G. Hoffman, Portland, Oreg. Latch-lock for swinging doors. No. 943,615; Dec. 14; Sp. p. 3416; Gaz. vol. 149; p. 569.
- Buff, L. F. (See Fifield, J. J., assignor.)
- Buff, T. H., Oyonnax, France. Transformable vehicle-body. No. 914,334; Mar. 2; Sp. p. 1440; Gaz. vol. 140; p. 223.
- Buffalo Forge Company. (See Carrier and Comfort, assignors.)
- Buffalo Foundry Company. (See Sleeper, O. S., assignor.)
- Buffalo Pitts Company. (See Todd, M. J., assignor.)
- Buffalo Sled Company. (See Oreutt, C. D., assignor.)
- Buffalo Specialty Company. (See Gruitsch, A., assignor.)
- Buffalo Steam Roller Company. (See Farquhar, D., assignor.)
- Buffalo Steam Roller Company. (See Todd and Farquhar, assignors.)
- Buffalo Steel Company. (See Large, P. T., assignor.)
- Bufat, C. A., Knoxville, Tenn. Glazier's point. No. 939,796; Nov. 9; Sp. p. 2983; Gaz. vol. 148; p. 491.
- Buffehr, F. H., Millers, Nev. Electrical switch. No. 933,956; Sept. 14; Sp. p. 2023; Gaz. vol. 146; p. 333.
- Buffelen, J., Tacoma, Wash. Bearing for column-turning machines. No. 916,942; Mar. 30; Sp. p. 6637; Gaz. vol. 140; p. 1182.
- Buffett, R., *et al.* (See Kenan, J. J. W., assignor.)
- Buffington, C. A., Berkshire, N. Y. Folding stool. No. 914,239; Mar. 2; Sp. p. 1245; Gaz. vol. 140; p. 194.
- Buffington, M. H., Moline, Ill. Package-binder. No. 908,741; Jan. 5; Sp. p. 666; Gaz. vol. 138; p. 103.
- Buffum, F. D., Columbus, Ohio, assignor, by mesne assignments, to Jeffrey Manufacturing Company. Box-car-loading apparatus. No. 914,017; Mar. 2; Sp. p. 788; Gaz. vol. 140; p. 121.
- Buffum, F. W., trustee. (See Mann, M. H., assignor.)
- Buffum, F. W., Louisiana, Mo. Duplicate invoice. No. 919,817; Apr. 27; Sp. p. 6150; Gaz. vol. 141; p. 1049.
- Buffum, O. E., Enumclaw, Wash. Automatic fowl-duster. No. 944,072; Dec. 21; Sp. p. 4383; Gaz. vol. 149; p. 755.
- Buffum Tool Company. (See Neerup, P., assignor.)
- Buggy Car Company. (See Anderson, N. M., assignor.)
- Buhl, A. (See Modlin, Schenimann, Buhl, and Black.)
- Buhl, P., Lubeck, Germany. Skid. No. 923,487; June 1; Sp. p. 833; Gaz. vol. 143; p. 126.
- Buhl Stamping Company. (See Prunner, O. A., assignor.)
- Buhl, W. H. (See Modlin, Schenimann, Buhl, and Black.)
- Bühler, J., assignor to Die Vereinigten Freiburger Uhrenfabriken Aktiengesellschaft, incl. vormals Gustav Becker, Freiburg, Germany. Clock and the like. No. 942,374; Dec. 7; Sp. p. 717; Gaz. vol. 149; p. 117.
- Buhlmann, G., Gross-Lichterfelde, near Berlin, Germany. Producing incandescent mantles. No. 928,580; July 20; Sp. p. 3911; Gaz. vol. 144; p. 683.
- Buhoup, H. C., Chicago, Ill., assignor to McConway & Torley Company, Pittsburg, Pa. Draft-gear for railway-cars. No. 917,537; Apr. 6; Sp. p. 1133; Gaz. vol. 141; p. 198.
- Buhoup, H. C., Chicago, Ill., assignor to McConway & Torley Company, Pittsburg, Pa. Draft appliance for railway-cars. No. 944,844; Dec. 28; Sp. p. 6075; Gaz. vol. 149; p. 1044.
- Buhse, A. F. (See Buhse, M. E., W. W., H. L., and A. F.)
- Buhse, H. L. (See Buhse, M. E., W. W., H. L., and A. F.)
- Buhse, M. E., W. W., H. L., and A. F., Minneapolis, Minn. Candy-wrapping machine. No. 929,075; July 27; Sp. p. 4908; Gaz. vol. 144; p. 876.
- Buhse, W. W. (See Buhse, M. E., W. W., H. L., and A. F.)
- Builders Iron Foundry. (See Connet and Graham, assignors.)
- Bujewski, A., St. Louis, Mo. Weather-strip. No. 926,543; June 29; Sp. p. 7172; Gaz. vol. 143; p. 1267.
- Bukacek, J. S., and J. O. Hulcius, Riverside, Ala. Disk cultivator. No. 914,921; Mar. 9; Sp. p. 2638; Gaz. vol. 140; p. 442.
- Bukolt, J. J., Stevens Point, Wis. Milking-machine. No. 940,852; Nov. 23; Sp. p. 5341; Gaz. vol. 148; p. 905.
- Bulasky, L., New York, N. Y. Sewing-machine. No. 929,119; July 27; Sp. p. 5004; Gaz. vol. 144; p. 890.
- Bulin, A., St. Paul, Minn. Attachment for bath-tubs. No. 939,797; Nov. 9; Sp. p. 2984; Gaz. vol. 148; p. 491.
- Bulkeley, Durand & Drury. (See Morrison, W., assignor.)
- Bulkeley, L. C., Alden Bridge, La. Apparatus for coating cotton-seeds and the like. No. 908,443; Jan. 5; Sp. p. 18; Gaz. vol. 138; p. 5.
- Bulkeley, L. C., Benton, La. Gas-supply alarm. No. 928,937; July 27; Sp. p. 4626; Gaz. vol. 144; p. 830.
- Bull, E. E., Dayton, Tenn. Coal-tipple. No. 914,698; Mar. 9; Sp. p. 2204; Gaz. vol. 140; p. 370.
- Bull, G. A., Bucyrus, Ohio. Engine-starting jack. No. 929,828; Aug. 3; Sp. p. 422; Gaz. vol. 145; p. 70.
- Bull, H. (See Neal, E. E., assignor.)
- Bull, H. W., Springfield, Mass. Printing-telegraph. No. 923,488; June 1; Sp. p. 834; Gaz. vol. 143; p. 126.
- Bull, R. S. (See Strance, Bull, and Norris.)
- Bull, W. B., Chicago, Ill. Purifying water. No. 935,637; Oct. 5; Sp. p. 20; Gaz. vol. 147; p. 5.
- Bullard, A. M., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Semi-mechanical telephone system. No. 944,537; Dec. 28; Sp. p. 5406; Gaz. vol. 149; p. 940.
- Bullard, C. A., Jackson, Mich. Corn-harvester. No. 923,326; June 1; Sp. p. 501; Gaz. vol. 143; p. 72.
- Bullard, E. W. (See Bullard, J. H. and E. W.)
- Bullard, F. F. (See Rose, E. H., assignor.)
- Bullard, H. D., Nashville, Tenn. Puzzle or toy. No. 913,689; Mar. 2; Sp. p. 18; Gaz. vol. 140; p. 6.
- Bullard, J. H., Springfield, Mass. Speedometer. No. 925,992; June 22; Sp. p. 6071; Gaz. vol. 143; p. 1050.
- Bullard, J. H., assignor to Bullard Specialty Co., Springfield, Mass. Speedometer. No. 944,538; Dec. 28; Sp. p. 5410; Gaz. vol. 149; p. 941.
- Bullard, J. H. and E. W., assignors to Bullard Specialty Co., Springfield, Mass. Speedometer. No. 935,583; Sept. 28; Sp. p. 5264; Gaz. vol. 146; p. 923.
- Bullard Machine Tool Company. (See Henrikson, E., assignor.)

*Alphabetical list of patentees—Continued.*

- Bullard, R. G., assignor of two-thirds to J. B. Mosley and L. H. Baker, Birmingham, Ala. Railway-tie. No. 927,324; July 6; Sp. p. 1259; Gaz. vol. 144; p. 208.
- Bullard Specialty Co. (See Bullard, J. H., assignor.)
- Bullard Specialty Co. (See Bullard, J. H. and E. W., assignors.)
- Bullard, W. E., Belmond, Iowa. Carving-board. No. 943,767; Dec. 21; Sp. p. 3736; Gaz. vol. 149; p. 650.
- Bullis, W. S. (See Dearing, J. W., assignor.)
- Bullman, J. A., *et al.* (See Pink, S. J., assignor.)
- Bullock, A. A., Dabney, assignor of one-half to O. Davis, Henderson, N. C. Fertilizer-distributor. No. 944,173; Dec. 21; Sp. p. 4599; Gaz. vol. 149; p. 789.
- Bullock, A. R., Cleveland, Ohio. Process and apparatus for burning oxygen with other gases. No. 943,385; Dec. 14; Sp. p. 2907; Gaz. vol. 149; p. 489.
- Bullock, C. A. H. (See Daniel and Bullock.)
- Bullock Electric Company. (See Behrend, B. A., assignor.)
- Bullock Electric Manufacturing Company *et al.* (See Behrend, B. A., assignor.)
- Bullock Electric Manufacturing Company *et al.* (See Behrend and Mattman, assignors.)
- Bullock Electric Manufacturing Company *et al.* (See Bettinger, J. J., assignor.)
- Bullock Electric Manufacturing Company *et al.* (See Brown, A. J., assignor.)
- Bullock Electric Manufacturing Company. (See Cheney, H. W., assignor.)
- Bullock Electric Manufacturing Company *et al.* (See Cheney, H. W., assignor.)
- Bullock Electric Manufacturing Company *et al.* (See Elshoff, B., assignor.)
- Bullock Electric Manufacturing Company. (See Elshoff, H. F., assignor.)
- Bullock Electric Manufacturing Company. (See Field, A. B., assignor.)
- Bullock Electric Manufacturing Company. (See Firmin, J. D., assignor.)
- Bullock Electric Manufacturing Company *et al.* (See Frankenfield, B., assignor.)
- Bullock Electric Manufacturing Company. (See Hall, D., assignor.)
- Bullock Electric Manufacturing Company. (See Knight, E. R., assignor.)
- Bullock Electric Manufacturing Company *et al.* (See Mattman, E., assignor.)
- Bullock Electric Manufacturing Company. (See McHugh, A. L., assignor.)
- Bullock Electric Manufacturing Company *et al.* (See Menningen, J. F., assignor.)
- Bullock Electric Manufacturing Company. (See Mug, E. T., assignor.)
- Bullock Electric Manufacturing Company *et al.* (See Pape, L. A., assignor.)
- Bullock Electric Manufacturing Company *et al.* (See Pomeroy, W. D., assignor.)
- Bullock Electric Manufacturing Company. (See Pomeroy and McHugh, assignors.)
- Bullock Electric Manufacturing Company *et al.* (See Ralston, H. H., assignor.)
- Bullock Electric Manufacturing Company *et al.* (See Schley, G. B., assignor.)
- Bullock Electric Manufacturing Company *et al.* (See Stull, E. W., assignor.)
- Bullock Electric Manufacturing Company. (See Van Valkenburg, H. L., assignor.)
- Bullock Electric Manufacturing Company *et al.* (See Van Valkenburg, H. L., assignor.)
- Bullock Electric Manufacturing Company *et al.* (See Wouters, A. H., assignor.)
- Bullock Electric Manufacturing Company. (See Wright, E. C., assignor.)
- Bullock Electric Manufacturing Company *et al.* (See Yates, C. J., assignor.)
- Bullock, G., *et al.* (See Gordon, C. H., assignor.)
- Bullock, G., Poplar Bluff, Mo. Tie-holder. No. 915,550; Mar. 16; Sp. p. 3904; Gaz. vol. 140; p. 676.
- Bullock, H. E. (See Butz, A. M., assignor.)
- Bullock, H. E., *et al.* (See Houghton, O. C., assignor.)
- Bullock, H. E., *et al.* (See Scherling, R. C., assignor.)
- Bullock, H. S., Jr., assignor to American District Telegraph Company, New York, N. Y. Call-box. No. 932,753; Aug. 31; Sp. p. 6616; Gaz. vol. 145; p. 1139.
- Bullock, J. B., Red Level, Ala. Gate. No. 927,633; July 13; Sp. p. 1936; Gaz. vol. 144; p. 339.
- Bullock, J. E., *et al.* (See Houghton, O. C., assignor.)
- Bullock, J. E., *et al.* (See Scherling, R. C., assignor.)
- Bulman, E. O., Grand Rapids, Mich. Roll-holder. No. 909,750; Jan. 12; Sp. p. 2660; Gaz. vol. 138; p. 469.
- Bulman, E. O., Grand Rapids, Mich. Roll-holder. No. 913,099; Feb. 23; Sp. p. 4277; Gaz. vol. 139; p. 775.
- Bulman, H. D., assignor to Consolidated Dental Manufacturing Company, New York, N. Y. Vulcanizer. No. 935,295; Sept. 28; Sp. p. 4662; Gaz. vol. 146; p. 828.
- Bumpass, C. I., Bumpass, Va. Poultry-coop. No. 939,798; Nov. 9; Sp. p. 2985; Gaz. vol. 148; p. 491.
- Bunau-Varilla, P., Paris, France. Machine for molding printing-blocks. No. 912,228; Feb. 9; Sp. p. 2431; Gaz. vol. 139; p. 420.
- Bunch, C., Johnson City, Tenn., assignor of one-half to W. Wells, Baltimore, Md. Means to facilitate the application of paste to labels. No. 944,314; Dec. 28; Sp. p. 4892; Gaz. vol. 149; p. 862.
- Bundsuh, W. C., assignor to H. Jelinck, Irvington, N. J. Cutter-bar for planing-machines. No. 919,287; Apr. 20; Sp. p. 4978; Gaz. vol. 141; p. 835.
- Bundsman, E. T., assignor to Point Loma Chemical Company, Point Loma, Cal. Sulfur color and making same. No. 909,277; Jan. 12; Sp. p. 1725; Gaz. vol. 138; p. 310.
- Bundy, C. L. (See Acker and Bundy.)
- Bundy, C. L., Kingsland, N. J. Car-door hanger. No. 930,348; Aug. 10; Sp. p. 1465; Gaz. vol. 145; p. 268.
- Bundy, C. L., Jersey City, N. J., and J. J. Acker, Horton, Kans., assignors to Transom Draft Gear Company, St. Louis, Mo. Draw-bar and yoke attachment for draft-gears. No. 939,390; Nov. 9; Sp. p. 2101; Gaz. vol. 148; p. 351.
- Bundy, W. H., assignor, by mesne assignments, to Trust and Deposit Company of Onondaga, trustee, Syracuse, N. Y. Time-recorder. No. 937,920; Oct. 26; Sp. p. 4838; Gaz. vol. 147; p. 836.
- Bundy, W. H., assignor, by mesne assignments, to Trust and Deposit Company of Onondaga, trustee, Syracuse, N. Y. Time-recorder. No. 937,921; Oct. 26; Sp. p. 4841; Gaz. vol. 147; p. 836.
- Bunge, J. C., Amsterdam, Netherlands. Apparatus for perforating music-sheets. No. 935,737; Oct. 5; Sp. p. 237; Gaz. vol. 147; p. 39.
- Bunnin, P., New York, N. Y. Valve-fitting for soda-water apparatus. No. 934,037; Sept. 14; Sp. p. 2165; Gaz. vol. 146; p. 358.
- Bunn, J. D., assignor of one-half to F. F. Eastlack, Jr., Philadelphia, Pa. Dumping-wagon. No. 923,943; June 8; Sp. p. 1858; Gaz. vol. 143; p. 310.
- Bunnell, M. G., Porter, Ind., assignor to Austin Manufacturing Company, Chicago, Ill. Crusher. No. 926,725; July 6; Sp. p. 11; Gaz. vol. 144; p. 5.
- Bunnell, M. G., assignor to F. C. Austin, Chicago, Ill. Excavating-machine. No. 937,764; Oct. 26; Sp. p. 4513; Gaz. vol. 147; p. 783.
- Bunnell, M. G., assignor to F. C. Austin, Chicago, Ill. Drainage-excavator. No. 940,126; Nov. 16; Sp. p. 3727; Gaz. vol. 148; p. 635.
- Bunnell, S. H., assignor to Griscum-Spencer Company, New York, N. Y. Humidifier. No. 941,187; Nov. 23; Sp. p. 6062; Gaz. vol. 148; p. 1017.
- Bunning, G. E. (See Cromwell, C., assignor.)
- Bunting, J. J., Grandview, Wash. Hydrostatic leveling instrument. No. 936,407; Oct. 12; Sp. p. 1692; Gaz. vol. 147; p. 285.
- Bunting, W., Jr., Brookline, Mass. Combination supply and waste apparatus. No. 922,253; May 18; Sp. p. 4445; Gaz. vol. 142; p. 772.
- Bunting, W., Jr., Brookline, Mass. Lavatory. No. 924,598; June 8; Sp. p. 3227; Gaz. vol. 143; p. 526.
- Bunting, W., Jr., Brookline, Mass. Lavatory. No. 935,621; Sept. 28; Sp. p. 5336; Gaz. vol. 146; p. 936.
- Burbank, B. L. (See Ward, A. R., assignor.)
- Burbank, C. J., Enid, Okla. Railway-track. No. 918,277; Apr. 13; Sp. p. 2682; Gaz. vol. 141; p. 475.
- Burbank, L. S., assignor to Draper Company, Hopedale, Mass. Receptacle for travelers for ring-spinning frames. No. 928,177; July 13; Sp. p. 3041; Gaz. vol. 144; p. 519.
- Burbank, L. S., assignor to Draper Company, Hopedale, Mass. Holding and delivering means for ring-travelers. No. 928,303; July 20; Sp. p. 3369; Gaz. vol. 144; p. 503.
- Burbank, L. S., assignor to Draper Company, Hopedale, Mass. Holding and delivering means for ring-travelers. No. 930,935; Aug. 10; Sp. p. 2707; Gaz. vol. 145; p. 463.
- Burch, A. T., Riverside, Ill. Mortise-nail. No. 920,535; May 4; Sp. p. 898; Gaz. vol. 142; p. 145.
- Burch, W. J., Chicago, Ill. Third-rail or other electrical conductor. No. 929,284; July 27; Sp. p. 5365; Gaz. vol. 144; p. 945.
- Burckhardt, E. H., *et al.* (See Watson, W. P., assignor.)
- Burcky, M. M., Cincinnati, assignor, by mesne assignments, to Ridgely Trimmer Company, Springfield, Ohio. Graining device. No. 925,421; June 15; Sp. p. 4865; Gaz. vol. 143; p. 832.
- Burd, J., Berlin, Pa. Seat-adjusting mechanism for agricultural machines. No. 937,922; Oct. 26; Sp. p. 4843; Gaz. vol. 147; p. 837.



*Alphabetical list of patentees—Continued.*

- Burd, R. L., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 936,087; Oct. 5; Sp. p. 1031; Gaz. vol. 147; p. 156.
- Burden, G. L., assignor of one-half to C. A. Craig, Sandusky, Ohio. Nozzle. No. 922,664; May 25; Sp. p. 5287; Gaz. vol. 142; p. 934.
- Burdett, G. (See Greene and Burdett.)
- Burdett-Rowntree Manufacturing Company. (See Rowntree, H., assignor.)
- Burdge, J. L. (See Garrahrant and Burdge.)
- Burdick, A. F., Beloit, Wis. Eye-shield. No. 915,738; Mar. 23; Sp. p. 4321; Gaz. vol. 140; p. 768.
- Burdick, C. L., London, England. Stencil-printing machine. No. 932,600; Aug. 31; Sp. p. 6286; Gaz. vol. 145; p. 1087.
- Burdick, H. M., Utica, N. Y. Clothes-drier. No. 918,000; Apr. 13; Sp. p. 2123; Gaz. vol. 141; p. 381.
- Burdick & Son. (See Bedell, J., assignor.)
- Burdick, W., Madison, Ohio. Vegetable-topping machine. No. 920,426; May 4; Sp. p. 689; Gaz. vol. 142; p. 108.
- Burdock, J. H., Albia, Iowa. Light-extinguisher. No. 943,176; Dec. 14; Sp. p. 2461; Gaz. vol. 149; p. 418.
- Burdsall, S. N., Dayton, Ohio, assignor of one-half to I. Cornwell, Northumberland, Pa. Antirattling thill-coupling. No. 933,691; Sept. 7; Sp. p. 1489; Gaz. vol. 146; p. 224.
- Buress, G., Indianapolis, Ind. Gas-engine starter. No. 919,818; Apr. 27; Sp. p. 6151; Gaz. vol. 141; p. 1049.
- Buress, G., Indianapolis, Ind., assignor of one-half to R. W. Long, Indianapolis, Ind. Gas-engine starter. No. 944,315; Dec. 28; Sp. p. 4893; Gaz. vol. 149; p. 862.
- Burg, L., Dallas City, Ill. Vehicle-axle spindle. No. 913,100; Feb. 23; Sp. p. 4279; Gaz. vol. 139; p. 775.
- Burgan, G. S., Miners Mills, Pa. Safety device for elevator or mine cages. No. 922,452; May 25; Sp. p. 4844; Gaz. vol. 142; p. 865.
- Burgan, G. S., Miners Mills, Pa. Toe-tip protector. No. 933,299; Oct. 26; Sp. p. 5664; Gaz. vol. 147; p. 964.
- Burge, C. S., Tacoma, Wash. Automatically-adjustable strain-insulator house-fixture. No. 930,527; Aug. 10; Sp. p. 1867; Gaz. vol. 145; p. 329.
- Burgedorff, R. N., Denver, Colo. Fruit-jar. No. 934,657; Sept. 21; Sp. p. 3394; Gaz. vol. 146; p. 591.
- Burger, A. (See Schlüssler, A., assignor.)
- Burger, A., Watkins, Minn. Animal-catcher. No. 918,001; Apr. 13; Sp. p. 2125; Gaz. vol. 141; p. 381.
- Burger, F., and H. M. Williams, Fort Wayne, Ind.; said Burger assignor of one-half to said Williams. Dome-shaped incandescent furnace. No. 923,404; June 1; Sp. p. 668; Gaz. vol. 143; p. 98.
- Burger, J. F., Baltimore, Md. Antiseptic mouth-protector for cigars. No. 924,316; June 8; Sp. p. 2670; Gaz. vol. 143; p. 435.
- Burger, L. F., assignor to J. Thompson & Sons Manufacturing Company, Beloit, Wis. Gas-producer. No. 925,621; June 22; Sp. p. 5280; Gaz. vol. 143; p. 928.
- Burger, R., Berlin, Germany. Making double-walled vacuum vessels. No. 918,503; Apr. 20; Sp. p. 3145; Gaz. vol. 141; p. 577.
- Burger, R., Berlin, Germany. Making double-walled vacuum vessels. No. 923,136; June 1; Sp. p. 22; Gaz. vol. 143; p. 5.
- Burgess, A. O., Newark, N. J. Safety-catch for jewelry. No. 927,827; July 13; Sp. p. 2335; Gaz. vol. 144; p. 402.
- Burgess, C. F. (See Whiting and Burgess.)
- Burgess, C. L. (See Wygal and Burgess.)
- Burgess, E. T., Columbus, Ohio. Soldering-furnace. No. 942,245; Dec. 7; Sp. p. 467; Gaz. vol. 149; p. 72.
- Burgess, H. W., and J. Hapworth, Albion, Idaho. Rock-drill. No. 937,048; Oct. 19; Sp. p. 3011; Gaz. vol. 147; p. 528.
- Burgess, J. J., and S. P., Rock Island, Ill. Register-securing means. No. 935,187; Sept. 28; Sp. p. 4449; Gaz. vol. 146; p. 792.
- Burgess, N., Highlands, N. J. Amusement device for producing illusory effects. No. 924,632; June 15; Sp. p. 3317; Gaz. vol. 143; p. 571.
- Burgess, R., Pawtucket, R. I., assignor to Draper Company, Hopedale, Mass. Filling-detecting mechanism for looms. No. 913,196; Feb. 23; Sp. p. 4484; Gaz. vol. 139; p. 808.
- Burgess, R. H., Mullin, Tex. Spring-wheel. No. 924,036; June 8; Sp. p. 2046; Gaz. vol. 143; p. 340.
- Burgess, S. P. (See Burgess, J. J., and S. P.)
- Burgess, W. G., assignor to Brown Hoisting Machinery Company, Cleveland, Ohio. Planing curvilinear surfaces. No. 918,504; Apr. 20; Sp. p. 3146; Gaz. vol. 141; p. 577.
- Burgess, Y., Washington, D. C., assignor to American Signal Company, Kansas City, Mo. Third-rail system. No. 921,508; May 11; Sp. p. 2912; Gaz. vol. 142; p. 500.
- Burgess, Y., Washington, D. C., assignor to American Signalling Company. Electric railway signal system. No. 926,687; June 29; Sp. p. 7454; Gaz. vol. 143; p. 1314.
- Burgett, E. H., and C. Londick, Three Rivers, Mich. Meter-seal. No. 936,862; Oct. 12; Sp. p. 2628; Gaz. vol. 147; p. 438.
- Burgett, H. W., Brookline, Mass., assignor to American Poultry Car Company. Poultry-coop. No. 913,101; Feb. 23; Sp. p. 4280; Gaz. vol. 139; p. 776.
- Burgett, H. W., Brookline, Mass., assignor to American Poultry Car Company. Poultry-car. No. 913,690; Mar. 2; Sp. p. 19; Gaz. vol. 140; p. 6.
- Burgner, H. W., Sinking Spring, Pa. Liquid-soap holder. No. 922,453; May 25; Sp. p. 4845; Gaz. vol. 142; p. 865.
- Burgstaller, E. F. (See Binger and Burgstaller.)
- Burham Safety Razor Co. (See Hamilton, G. H., assignor.)
- Burhans, P. C., assignor of one-half to W. E. Dunkerley, Glendive, Mont. Rotary steam-engine. No. 920,911; May 11; Sp. p. 1673; Gaz. vol. 142; p. 298.
- Burhorn, E., Hoboken, N. J. By-pass. No. 940,920; Nov. 23; Sp. p. 5469; Gaz. vol. 148; p. 927.
- Burk, E., Tolona, Mo. Elevating device. No. 916,267; Mar. 23; Sp. p. 5300; Gaz. vol. 140; p. 938.
- Bürk, R., Schweningen, Germany. Time-recorder and the like. No. 934,038; Sept. 14; Sp. p. 2168; Gaz. vol. 146; p. 359.
- Burk, R. D., New York, N. Y. Push-button apparatus. No. 931,380; Aug. 17; Sp. p. 3725; Gaz. vol. 145; p. 643.
- Burk, T. W., Belleville, Ontario, Canada. Planter. No. 937,224; Oct. 19; Sp. p. 3378; Gaz. vol. 147; p. 586.
- Burke, A., Leominster, Mass. Comb-barrette. No. 937,223; Oct. 19; Sp. p. 3377; Gaz. vol. 147; p. 586.
- Burke, A. V., Greeley Center, Nebr. Draft-equalizer. No. 938,637; Nov. 2; Sp. p. 429; Gaz. vol. 148; p. 66.
- Burke, B. F., assignor of one-half to M. Corbett, Chicago, Ill. Artificial bait for fish. No. 913,102; Feb. 23; Sp. p. 4282; Gaz. vol. 139; p. 776.
- Burke, C. A., assignor of one-half to C. A. Schuler, Philadelphia, Pa. Brake mechanism. No. 927,941; July 13; Sp. p. 2588; Gaz. vol. 144; p. 441.
- Burke, C. W., R. J. Rodgers, and J. D. Perkins, Atlanta, Ga. Mail-bag-exchange apparatus. No. 922,665; May 25; Sp. p. 5288; Gaz. vol. 142; p. 935.
- Burke Electric Company. (See Burke, J., assignor.)
- Burke, G. P., assignor to Duffin, Summers and Burke, Louisville, Ky. Apparatus for automatically stopping steam and electric trains and signaling the engineer in charge. No. 921,793; May 18; Sp. p. 3495; Gaz. vol. 142; p. 621.
- Burke, J. (See Wallace, J. E., assignor.)
- Burke, J., Erie, Pa., assignor to Burke Electric Company. Electric motor. No. 909,057; Jan. 5; Sp. p. 1272; Gaz. vol. 138; p. 204.
- Burke, J., Erie, Pa., assignor to Burke Electric Company. Variable-speed motor. No. 913,691; Mar. 2; Sp. p. 22; Gaz. vol. 140; p. 6.
- Burke, J. F. (See Gallaher and Burke.)
- Burke, M., et al., executors. (See Berg, W. G.)
- Burke, R. H., Lexington, Mass. Die-stock. No. 933,884; Sept. 14; Sp. p. 1878; Gaz. vol. 146; p. 310.
- Burke, S. E., assignor of one-half to T. H. Dirrim, Hamilton, Ind. Burial-vault. No. 928,847; July 20; Sp. p. 4430; Gaz. vol. 144; p. 772.
- Burke, T. C. (See Cardy, H. D., assignor.)
- Burke, T. J., New Orleans, La. Operating mechanism for cut-off or controlling devices. No. 929,385; July 27; Sp. p. 5590; Gaz. vol. 144; p. 980.
- Burke, W. B. (See Gibson, E. J., assignor.)
- Burke, W. J., et al. (See McPhail, J., assignor.)
- Burke, W. W., Bennington, Vt. Bobbin. No. 909,986; Jan. 19; Sp. p. 3139; Gaz. vol. 138; p. 580.
- Burket, J. F., et al. (See Karg, A. E., assignor.)
- Burket, R., et al. (See Karg, A. E., assignor.)
- Burket, S. H., Findlay, Ohio. Girl's combination-suit. No. 933,286; Sept. 7; Sp. p. 584; Gaz. vol. 146; p. 90.
- Burkett, J. M., Noble, Okla. Flood-gate. No. 911,290; Feb. 2; Sp. p. 532; Gaz. vol. 139; p. 91.
- Burkett, J. W., Kansas City, Kans. assignor to Kansas City Hay Press Company. Baling-press. No. 936,216; Oct. 5; Sp. p. 1275; Gaz. vol. 147; p. 194.
- Burkhard, H., assignor of one-half to H. Levinson and J. Fliegeltaub, Chicago, Ill. Trolley. No. 920,427; May 4; Sp. p. 691; Gaz. vol. 142; p. 109.
- Burkhardt Furniture Co. (See Zwiesler, A., assignor.)
- Burkhardt, G. J., Burlingame, Cal. Toilet. No. 933,619; Sept. 7; Sp. p. 1347; Gaz. vol. 146; p. 200.
- Burkhart, C. F., Buffalo, N. Y. Coin-controlled mechanism. No. 916,838; Mar. 30; Sp. p. 6416; Gaz. vol. 140; p. 1147.
- Burkholder, E. G., Sumner, Iowa. Hog-ringer. No. 908,947; Jan. 5; Sp. p. 1049; Gaz. vol. 138; p. 169.
- Burkholder, A. (See Wilcox and Burkholder.)

*Alphabetical list of patentees—Continued.*

- Burkholder, J. B., Minneapolis, Minn. Telephone attachment. No. 933,228; Sept. 7; Sp. p. 448; Gaz. vol. 146; p. 69.
- Burkle, W. M., New Haven, Conn. Nut-cracker. No. 931,562; Aug. 17; Sp. p. 4067; Gaz. vol. 145; p. 700.
- Burks, B. B. (See Brown and Burks.)
- Burks, J. B., *et al.* (See Erwin, A. R., assignor.)
- Burks, W. D., *et al.* (See Erwin, A. R., assignor.)
- Burks, W. E., assignor of two-thirds to B. M. Hixson and L. Wallace, Kerrville, Tex. Means for raising and lowering drill disks or plows. No. 911,474; Feb. 2; Sp. p. 852; Gaz. vol. 139; p. 150.
- Burleson, A. R., Webster City, Iowa. Foldable metal egg-case. No. 940,234; Nov. 16; Sp. p. 3953; Gaz. vol. 148; p. 673.
- Burley, J. D. (See Poindexter, G. D., assignor.)
- Burlingame, D. J. (See Athey, I. H., assignor.)
- Burlingame, E., Laporte, Ind., assignor to Burlingame Telegraphing Typewriter Company. Telegraphic type-writer. No. 928,581; July 20; Sp. p. 3912; Gaz. vol. 144; p. 683.
- Burlingame, E. A., San Francisco, Cal., assignor to Burlingame Telegraphing Typewriter Company. Carriage-return mechanism for type-writers. No. 909,539; Jan. 12; Sp. p. 2234; Gaz. vol. 138; p. 397.
- Burlingame, E. A., San Francisco, Cal., assignor to Burlingame Telegraphing Typewriter Company. Polarized magnet. No. 921,794; May 18; Sp. p. 3498; Gaz. vol. 142; p. 622.
- Burlingame, E. A., San Francisco, Cal., assignor to Burlingame Telegraphing Typewriter Company. Polarized magnet. No. 928,582; July 20; Sp. p. 3916; Gaz. vol. 144; p. 684.
- Burlingame, E. A., San Francisco, Cal., assignor to Burlingame Telegraphing Typewriter Company. Unidirecting electrical currents. No. 928,583; July 20; Sp. p. 3917; Gaz. vol. 144; p. 684.
- Burlingame Telegraphing Typewriter Company. (See Burlingame, E., assignor.)
- Burlingame Telegraphing Typewriter Company. (See Burlingame, E. A., assignor.)
- Burlingame, W. R., assignor to L. Wetmore, Lowville, N. Y. Folding table. No. 910,354; Jan. 19; Sp. p. 3932; Gaz. vol. 138; p. 707.
- Burmeister, J., Spirit Lake, Iowa. Tire-shield. No. 911,203; Feb. 2; Sp. p. 356; Gaz. vol. 139; p. 62.
- Burnard, E. C., Newark, Ohio. Clothes-line fastener. No. 924,425; June 8; Sp. p. 2875; Gaz. vol. 143; p. 470.
- Burnell, W., Weston-super-Mare, England. Internal-combustion engine. No. 929,829; Aug. 3; Sp. p. 423; Gaz. vol. 145; p. 70.
- Burner, W. L. (See Doty and Burner.)
- Burner, W. L. (See Doty, Burner, and Stagg.)
- Burnes, F., assignor to American Fuel Company, St. Louis, Mo. Briquet-machine. No. 915,332; Mar. 16; Sp. p. 3461; Gaz. vol. 140; p. 603.
- Burnet, A., and H. Temple, London, England. Hair-net. No. 917,538; Apr. 6; Sp. p. 1136; Gaz. vol. 141; p. 199.
- Burnet, A., H. Temple, and L. Pfeiffer, London, England. Hair-net. No. 915,933; Mar. 23; Sp. p. 4674; Gaz. vol. 140; p. 829.
- Burnet Compound Spring, Inc. (See Burnet, L. C., assignor.)
- Burnet, L. C., assignor to Burnet Compound Spring, Inc., Newark, N. J. Vehicle-spring. No. 921,947; May 18; Sp. p. 3831; Gaz. vol. 142; p. 671.
- Burnet, I. C., assignor to Burnet Compound Spring, Inc., Newark, N. J. Vehicle-spring. No. 922,454; May 25; Sp. p. 4846; Gaz. vol. 142; p. 865.
- Burnett, H. S., Lisbon, Ohio. Combined snap-hook and choke-strap connection. No. 933,957; Sept. 14; Sp. p. 2026; Gaz. vol. 146; p. 334.
- Burnett, W. E., Ilion, N. Y. Type-bar and hanger. No. 917,244; Apr. 6; Sp. p. 563; Gaz. vol. 141; p. 101.
- Burnett, W. E., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Wrench. No. 918,505; Apr. 20; Sp. p. 3147; Gaz. vol. 141; p. 577.
- Burnfield, D., Denver, Colo. Turbine. No. 928,178; July 13; Sp. p. 3042; Gaz. vol. 144; p. 519.
- Burnham, E. E., Amite, La. Coffee-roaster. No. 920,428; May 4; Sp. p. 692; Gaz. vol. 142; p. 109.
- Burnham, H. E., Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-attaching device. No. 929,830; Aug. 3; Sp. p. 425; Gaz. vol. 145; p. 71.
- Burnham, L., Urbana, Ohio. Engine-starter. No. 936,700; Oct. 12; Sp. p. 2318; Gaz. vol. 147; p. 385.
- Burnham, R. W., Ocean Point, Me. Protecting-hood for spark-plugs. No. 920,429; May 4; Sp. p. 694; Gaz. vol. 142; p. 109.
- Burnham, Williams & Company. (See Austin, W. L., assignor.)
- Burnham, Williams & Company. (See Henry, G. W., Jr., assignor.)
- Burnham, Williams & Company. (See Ragonnet, E. L., assignor.)
- Burnham, Williams & Company. (See Vaucrain, A. C., assignor.)
- Burnham, Williams & Company. (See Vaucrain, S. M., assignor.)
- Burnitol Manufacturing Company. (See Potter, H. J., assignor.)
- Burns, A., Rye, N. Y. Machine for feeding articles to mangles. No. 916,839; Mar. 30; Sp. p. 6425; Gaz. vol. 140; p. 1148.
- Burns, A. J., assignor to F. D. H. Cobb and Cobb Preserving Company, Rochester, N. Y. Fruit parer, corer, and divider. No. 915,658; Mar. 16; Sp. p. 4144; Gaz. vol. 140; p. 715.
- Burns, A. N., *et al.* (See Fischman, M., assignor.)
- Burns, E., New Kensington, Pa. Bottle. No. 932,956; Aug. 31; Sp. p. 7008; Gaz. vol. 145; p. 1204.
- Burns, E., assignor to Beaton & Bradley Company, New Britain, Conn. Nozzle-holder. No. 925,680; June 22; Sp. p. 5402; Gaz. vol. 143; p. 946.
- Burns, E., and G. H. Horton, Hartford, Conn., assignors to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 925,422; June 15; Sp. p. 4866; Gaz. vol. 143; p. 832.
- Burns, F. B., New York, N. Y. Hollow sheet-metal furniture. No. 909,540; Jan. 12; Sp. p. 2236; Gaz. vol. 138; p. 397.
- Burns, F. J., Thomaston, Conn. Permutation-lock. No. 910,783; Jan. 26; Sp. p. 4317; Gaz. vol. 138; p. 871.
- Burns, G. (See Harrison and Burns.)
- Burns, G. B. (See Burns, J. W. and G. B.)
- Burns, H. B., assignor of one-eighth to W. W. Breister and one-fourth to C. Eberhart, Fond du Lac, Wis. Fruit-jar. No. 940,581; Nov. 16; Sp. p. 4745; Gaz. vol. 148; p. 790.
- Burns, J. D., Pittsburg, Pa. Valve-seat-grinding machine. No. 944,845; Dec. 28; Sp. p. 6076; Gaz. vol. 149; p. 1045.
- Burns, J. F., Philadelphia, Pa. Junction-box for electrical conductors. No. 927,218; July 6; Sp. p. 1069; Gaz. vol. 144; p. 173.
- Burns, J. F., Philadelphia, Pa. Junction-box for electrical conductors. No. 927,219; July 6; Sp. p. 1070; Gaz. vol. 144; p. 173.
- Burns, J. J. (See Gifford, Burns, and Bishop.)
- Burns, J. J., Pittston, Pa. Elevator. No. 944,942; Dec. 28; Sp. p. 6262; Gaz. vol. 149; p. 1076.
- Burns, J. W. and G. B., New Westminster, British Columbia, Canada. Wood-planer cutter-head. No. 932,373; Aug. 24; Sp. p. 5790; Gaz. vol. 145; p. 989.
- Burns, L. T., Waterbury, Conn. Ladder-bracket. No. 910,639; Jan. 26; Sp. p. 4537; Gaz. vol. 138; p. 826.
- Burns, M. F., assignor to Robert N. Basset Company, Shelton, Conn. Combined buckle and clasp. No. 939,122; Nov. 2; Sp. p. 1425; Gaz. vol. 148; p. 232.
- Burns, P. F., Nisbet, Pa. Rule. No. 941,492; Nov. 30; Sp. p. 6722; Gaz. vol. 148; p. 1139.
- Burns, R., assignor to Jabez Burns & Sons, New York, N. Y. Roaster for coffee and other material. No. 932,957; Aug. 31; Sp. p. 7008; Gaz. vol. 145; p. 1205.
- Burns, R. H., Woodhaven, N. Y. Smoke-preventing apparatus. No. 936,088; Oct. 5; Sp. p. 1034; Gaz. vol. 147; p. 156.
- Burns, T. F. (See Stubkjare, Burns, and McClintock.)
- Burns, W. H., Naperville, Ill. Preserving eggs. No. 938,965; Nov. 2; Sp. p. 1118; Gaz. vol. 148; p. 179.
- Burnside, J. A., Dunedin, New Zealand. Brush-ware. No. 941,306; Nov. 23; Sp. p. 6309; Gaz. vol. 148; p. 1055.
- Burnstein, J., St. John's, Newfoundland. Non-refillable bottle. No. 933,530; Sept. 7; Sp. p. 1175; Gaz. vol. 146; p. 170.
- Burpee, M., Houlton, Me. Guard-rail clamp. No. 943,138; Dec. 14; Sp. p. 2395; Gaz. vol. 149; p. 407.
- Burr, C., and H. F. Thomas, Natrona, Pa. Portable dark room for photographic purposes. No. 922,254; May 18; Sp. p. 4449; Gaz. vol. 142; p. 772.
- Burr, E. M., Champaign, Ill. Cooker. No. 921,509; May 11; Sp. p. 2914; Gaz. vol. 142; p. 500.
- Burr, E. M., Champaign, Ill. Can-feeding apparatus. No. 921,672; May 18; Sp. p. 3271; Gaz. vol. 142; p. 582.
- Burr, F. P., assignor to Autospin Company, Inc., Middletown, Conn. Ice-cream freezer. No. 926,639; June 29; Sp. p. 7358; Gaz. vol. 143; p. 1298.
- Burr, F. P., assignor to New England Enameling Company, Middletown, Conn. Egg-beater. No. 935,088; Sept. 28; Sp. p. 4259; Gaz. vol. 146; p. 761.
- Burr, J. M., and H. S. Gibbs, Norwalk, Conn. Making seamless metallic linings. No. 922,851; May 25; Sp. p. 5676; Gaz. vol. 142; p. 994.
- Burr, J. T., Cleveland, Ohio. Heater. No. 912,069; Feb. 9; Sp. p. 2152; Gaz. vol. 139; p. 371.
- Burr, W. H., El Paso, Tex. Combined Indian club and dumb-bell. No. 937,225; Oct. 19; Sp. p. 3380; Gaz. vol. 147; p. 587.
- Burrage, W. V. (See Banfill, W. A., assignor.)
- Burrell, C. A. (See Hightower and Burrell.)
- Burrell, D. V., Rocky Ford, Colo. Centrifugal pump. No. 941,557; Nov. 30; Sp. p. 6848; Gaz. vol. 148; p. 1160.
- Burrell, J. A., assignor to N. C. Bowman, Johnstown, Pa. Fifth-wheel. No. 936,983; Oct. 12; Sp. p. 2860; Gaz. vol. 147; p. 478.
- Burrell, L., assignor to D. H. Burrell & Company, Little Falls, N. Y. Milking-machine. No. 942,482; Dec. 7; Sp. p. 953; Gaz. vol. 149; p. 154.
- Burnhus, H. L., Hornell, N. Y. Telephone-hood. No. 908,444; Jan. 5; Sp. p. 21; Gaz. vol. 138; p. 5.



*Alphabetical list of patentees—Continued.*

- Burridge, L. S. (See Forkarth, J. F., assignor.)  
 Burridge, L. S., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 911,644; Feb. 9; Sp. p. 1233; Gaz. vol. 139; p. 233.  
 Burris, C. W., Black Diamond, Wash. Safety device. No. 943,862; Dec. 21; Sp. p. 3931; Gaz. vol. 149; p. 683.  
 Burris, F. O., *et al.* (See Gunn, J. M., assignor.)  
 Burris, G. P., Seattle, Wash. Mail-chute. No. 930,936; Aug. 10; Sp. p. 2708; Gaz. vol. 145; p. 463.  
 Burris, J. R., *et al.* (See Gunn, J. M., assignor.)  
 Burris, W. C., assignor of one-half to M. E. Dawson, Clarksburg, Ohio. Vehicle-body holder. No. 909,845; Jan. 12; Sp. p. 2833; Gaz. vol. 138; p. 499.  
 Burroughs Adding Machine Company. (See Benner, R. E., assignor.)  
 Burroughs Adding Machine Company. (See Burd, R. L., assignor.)  
 Burroughs Adding Machine Company. (See Gooch, C. W., assignor.)  
 Burroughs Adding Machine Company. (See Kilpatrick, W. J., assignor.)  
 Burroughs Adding Machine Company. (See Kreiss, O. C., Jr., assignor.)  
 Burroughs Adding Machine Company. (See McBerty, F. R., assignor.)  
 Burroughs Adding Machine Company. (See McFarland, C. N., assignor.)  
 Burroughs Adding Machine Company. (See Vincent, J. G., assignor.)  
 Burroughs Adding Machine Company. (See Vincent and Benner, assignors.)  
 Burroughs Adding Machine Company. (See Vincent and White, assignors.)  
 Burrows, F. M., assignor to E. T. Burrows Company, Portland, Me. Folding chair. No. 940,582; Nov. 16; Sp. p. 4746; Gaz. vol. 148; p. 790.  
 Burrows, C., Hoboken, N. J. Pen-clamping device for ruling-machines. No. 927,634; July 13; Sp. p. 1937; Gaz. vol. 144; p. 340.  
 Burrows, C. A., Lemoore, Cal. Wave-motor. No. 913,467; Feb. 23; Sp. p. 5032; Gaz. vol. 139; p. 899.  
 Burrows, C. A., Lemoore, Cal. Rotary engine. No. 938,211; Oct. 26; Sp. p. 5471; Gaz. vol. 147; p. 935.  
 Burrows, C. A., Lititz, assignor of one-half to J. K. Hartman, Lancaster, Pa. Flexible pocket savings-bank. No. 925,454; June 22; Sp. p. 4951; Gaz. vol. 143; p. 874.  
 Burrows, H. G., Fall River, Mass. Gas-cock for gas-ranges. No. 926,922; July 6; Sp. p. 454; Gaz. vol. 144; p. 73.  
 Burrows, I. I., Poolville, Tex. Composition for tanning. No. 914,382; Mar. 9; Sp. p. 1560; Gaz. vol. 140; p. 265.  
 Burrows, W. R., Newark, N. J. Loom. No. 924,142; June 8; Sp. p. 2262; Gaz. vol. 143; p. 374.  
 Burrows, W. R., Newark, N. J. Loom. No. 924,886; June 15; Sp. p. 3350; Gaz. vol. 143; p. 657.  
 Burson, A. E. (See Buelna, G., assignor.)  
 Burson, A. E. (See Buelna and Burson.)  
 Burson, W. W., Chicago, Ill. Knitting-machine. No. 923,244; July 20; Sp. p. 3202; Gaz. vol. 144; p. 571.  
 Burson, W. W., Rockford, Ill. Knitting-machine. No. 944,011; Dec. 21; Sp. p. 4270; Gaz. vol. 149; p. 735.  
 Burson, W. W., Rockford, Ill. Yarn-changing mechanism for knitting-machines. No. 944,012; Dec. 21; Sp. p. 4272; Gaz. vol. 149; p. 735.  
 Bursteen, J., Boston, Mass. Overcoat. No. 912,229; Feb. 9; Sp. p. 2433; Gaz. vol. 139; p. 420.  
 Burt, E., El Oro, Mexico. Filter. No. 931,267; Aug. 17; Sp. p. 3481; Gaz. vol. 145; p. 603.  
 Burt, G. W., Ohioville, Pa. Tool-sharpener. No. 944,943; Dec. 28; Sp. p. 6264; Gaz. vol. 149; p. 1076.  
 Burt, J., Narberth, assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Turret tool-holder for lathes. No. 936,301; Oct. 12; Sp. p. 1434; Gaz. vol. 147; p. 249.  
 Burt Machine Company. (See Wild, F. W., Jr., assignor.)  
 Burt Olney Canning Company. (See Thomas, A. W., assignor.)  
 Burt, W. E., Yuba, Wis. Meter for indicating horse-power. No. 942,130; Dec. 7; Sp. p. 220; Gaz. vol. 149; p. 34.  
 Burtche, M. A., University, Va. Artificial bait. No. 941,911; Nov. 30; Sp. p. 7613; Gaz. vol. 148; p. 1282.  
 Burton, A., Whitesboro, Tex. Liquid-fuel-lighting system. No. 939,799; Nov. 9; Sp. p. 2986; Gaz. vol. 148; p. 491.  
 Burton, C. F. (See Pickett, D. M., assignor.)  
 Burton, C. S., Oak Park, Ill., assignor to E. Tyden, Hastings, Mich. Extension-table. No. 943,337; Dec. 14; Sp. p. 2809; Gaz. vol. 149; p. 473.  
 Burton, F. F., Short Beach, assignor to Winchester Repeating Arms Co., New Haven, Conn. Recoiling-barrel gun. No. 941,006; Nov. 23; Sp. p. 5659; Gaz. vol. 148; p. 956.  
 Burton, G. D., Boston, Mass. Treating sugar-cane and similar substances. No. 909,937; Jan. 19; Sp. p. 3141; Gaz. vol. 138; p. 580.  
 Burton, H. H., Los Angeles, Cal. Adding attachment for type-writers. No. 921,358; May 11; Sp. p. 2608; Gaz. vol. 142; p. 449.  
 Burton, J. C., Sylvan Grove, Kans. Towel-rack. No. 916,417; Mar. 30; Sp. p. 5595; Gaz. vol. 140; p. 1014.  
 Burton, J. E., Whitewater, Wis. Drag attachment for plows. No. 935,738; Oct. 5; Sp. p. 240; Gaz. vol. 147; p. 39.  
 Burton, J. E., Whitewater, Wis. Plow attachment. No. 935,739; Oct. 5; Sp. p. 243; Gaz. vol. 147; p. 39.  
 Burton, J. L., Plainville, Conn., assignor of one-half to F. A. Champlin, East Long Meadow, Mass. Electrical-connection rosette. No. 923,327; June 1; Sp. p. 507; Gaz. vol. 143; p. 72.  
 Burton, J. L., Plainville, Conn., assignor of one-half to F. A. Champlin, East Long Meadow, Mass. Connection-rosette for electric wires. No. 942,710; Dec. 7; Sp. p. 1399; Gaz. vol. 149; p. 230.  
 Burton, L. C., assignor of one-half to J. Shrum, Columbus, Ohio. Compound gasoline-engine. No. 935,740; Oct. 5; Sp. p. 246; Gaz. vol. 147; p. 39.  
 Burton, L. L., Fort Worth, Tex. Automatic machine for forming plastic bodies. No. 917,748; Apr. 13; Sp. p. 1555; Gaz. vol. 141; p. 294.  
 Burton, R. C., *et al.* (See Shelburne, J. O., assignor.)  
 Burton, R. L., assignor of one-half to C. E. Chrisman, Ortonville, Minn. Film-developing machine. No. 920,263; May 4; Sp. p. 365; Gaz. vol. 142; p. 57.  
 Burtcher, G. E., Chicago, Ill. Hose-shield. No. 921,079; May 11; Sp. p. 2016; Gaz. vol. 142; p. 355.  
 Burtcher, G. E., Chicago, Ill. End-cutting pliers. No. 921,080; May 11; Sp. p. 2017; Gaz. vol. 142; p. 355.  
 Burt, W. C. (See Minue, W. E., assignor.)  
 Burwell, C. B., Cotulla, Tex. Crate. No. 934,280; Sept. 14; Sp. p. 2651; Gaz. vol. 146; p. 440.  
 Burwell, E. S., Madison, Wis. Horse-blanket. No. 939,662; Nov. 9; Sp. p. 2695; Gaz. vol. 148; p. 444.  
 Burwell, J. A., San Antonio, Tex. Garbage-burner. No. 911,375; Feb. 2; Sp. p. 687; Gaz. vol. 139; p. 118.  
 Busby, E. A., San Francisco, Cal. Bust-supporter. No. 911,204; Feb. 2; Sp. p. 357; Gaz. vol. 139; p. 62.  
 Busby, H. C., Birmingham, Ala. System of utilization of windmill-power. No. 943,000; Dec. 14; Sp. p. 2093; Gaz. vol. 149; p. 359.  
 Busch, A., Brunswick, Germany. Manufacturing soluble compounds of mercuric salts with hexamethylene-tetramine. No. 930,836; Aug. 10; Sp. p. 2488; Gaz. vol. 145; p. 431.  
 Busch, D. A., Rainier, Oreg. Grab or draft hook. No. 938,551; Nov. 2; Sp. p. 256; Gaz. vol. 148; p. 37.  
 Busch, H. F., Millvale, assignor to Armstrong Cork Company, Pittsburg, Pa. Ring buoy. No. 913,617; Feb. 23; Sp. p. 5374; Gaz. vol. 139; p. 950.  
 Buschbaum, F. O., St. Louis, Mo. Metal box. No. 933,229; Sept. 7; Sp. p. 451; Gaz. vol. 146; p. 70.  
 Busche, F. C., St. Louis, Mo. Baker's oven. No. 927,103; July 6; Sp. p. 863; Gaz. vol. 144; p. 138.  
 Buschek, R. E., Philadelphia, Pa. Fountain-pen attachment. No. 928,105; July 13; Sp. p. 2896; Gaz. vol. 144; p. 494.  
 Buscher, H. H., Huguam, Wash. Shipping case or crate. No. 910,497; Jan. 26; Sp. p. 4236; Gaz. vol. 138; p. 779.  
 Buschmann, G. A., Hamburg, Germany. Reed-organ. No. 934,161; Sept. 14; Sp. p. 2441; Gaz. vol. 146; p. 401.  
 Buschor, J. J., Muncie, Ind. Combination shade-holder. No. 916,101; Mar. 23; Sp. p. 4995; Gaz. vol. 140; p. 885.  
 Buse, F. A., Sulphur, Okla. Railway-tie. No. 911,700; Feb. 9; Sp. p. 1350; Gaz. vol. 139; p. 251.  
 Busenbark, L. F., Crawfordville, Ind. Canopy. No. 928,495; July 20; Sp. p. 3727; Gaz. vol. 144; p. 655.  
 Busenbenz, J. J., Chicago, Ill. Time-stamp. No. 938,410; Oct. 26; Sp. p. 5908; Gaz. vol. 147; p. 1002.  
 Buser, W. E., Chillicothe, Ohio. Tufting-machine. No. 911,376; Feb. 2; Sp. p. 689; Gaz. vol. 139; p. 118.  
 Busfield, J., Haverhill, Mass. Leather-splitting machine. No. 937,765; Oct. 26; Sp. p. 4518; Gaz. vol. 147; p. 783.  
 Busfield, J., Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-gouging machine. No. 933,820; Sept. 14; Sp. p. 1745; Gaz. vol. 146; p. 290.  
 Bush, C. C. (See Beach, L. R., assignor.)  
 Bush, D. F. (See Loehrer, G. G., assignor.)  
 Bush, H. T., Lakewood, assignor of one-half to G. Baker, Cleveland, Ohio. Wrench. No. 924,292; June 8; Sp. p. 2616; Gaz. vol. 143; p. 426.  
 Bush Manufacturing Company. (See Lewis, J. E., assignor.)  
 Bush, W. E., Fresno, Cal. Pipe attachment. No. 921,948; May 18; Sp. p. 3833; Gaz. vol. 142; p. 671.  
 Bushmeyer, C. J., Purcell, Okla. Grease-cup. No. 926,923; July 6; Sp. p. 455; Gaz. vol. 144; p. 73.  
 Bushnell, A. J., Philadelphia, Pa. Envelope for filing or carrying correspondence and the like. No. 930,837; Aug. 10; Sp. p. 2490; Gaz. vol. 145; p. 431.  
 Bushong, H. F. (See Farley, G. R., assignor.)  
 Bushong, H. F. (See Impey, F. P., assignor.)  
 Bushong, H. F., Kalamazoo, Mich. Temporary binder or loose-sheet holder. No. 912,361; Feb. 16; Sp. p. 2760; Gaz. vol. 139; p. 503.

*Alphabetical list of patentees—Continued.*

- Bushong, H. F., assignor to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Temporary binder or loose-sheet holder. No. 914,383; Mar. 9; Sp. p. 1561; Gaz. vol. 140; p. 265.
- Bushong, H. F., assignor to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Temporary binder or loose-sheet holder. No. 940,508; Nov. 16; Sp. p. 4589; Gaz. vol. 148; p. 766.
- Bushong, H. F., assignor to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Temporary binder or loose-sheet holder. No. 944,256; Dec. 28; Sp. p. 4761; Gaz. vol. 149; p. 841.
- Bushong, H. F., Portland, Oreg., assignor, by mesne assignments, to Kalamazoo Loose Leaf Binder Company. Loose-leaf ledger. No. 941,757; Nov. 30; Sp. p. 7280; Gaz. vol. 148; p. 1227.
- Busian, G. L., Marshall, Minn. Vacuum-cleaner. No. 944,944; Dec. 28; Sp. p. 6265; Gaz. vol. 149; p. 1077.
- Busiore, L. (See Anderson, W. W., assignor.)
- Business Improvement Company. (See Hodges, J. F., assignor.)
- Büsing, R. (See Bode and Büsing.)
- Buskard, S. G., Hamilton, Ontario, Canada. Smoothing-iron. No. 931,381; Aug. 17; Sp. p. 3728; Gaz. vol. 145; p. 643.
- Busse, A., Charlottenburg, Germany. Rail and the manufacture thereof. No. 934,884; Sept. 21; Sp. p. 3834; Gaz. vol. 146; p. 665.
- Busse, A., New York, N. Y. Metal frame for glass panes. No. 942,611; Dec. 7; Sp. p. 1210; Gaz. vol. 149; p. 198.
- Busse, E. F., Los Angeles, Cal. Gold-separator. No. 931,842; Aug. 24; Sp. p. 4691; Gaz. vol. 145; p. 813.
- Bussinger, W. J., assignor to National Specialty Manufacturing Company, Philadelphia, Pa. Measuring device for fluid-pumps. No. 910,458; Jan. 19; Sp. p. 4141; Gaz. vol. 138; p. 742.
- Bussman, P. F., Buffalo, N. Y. Filtering-bed. No. 931,032; Aug. 17; Sp. p. 2948; Gaz. vol. 145; p. 522.
- Bussmeyer, F. W. (See Parker and Bussmeyer.)
- Bust, W. B., Oakland, Cal. Ship-cleaning apparatus. No. 910,110; Jan. 19; Sp. p. 3371; Gaz. vol. 138; p. 620.
- Butstillo y Diego, R. J., Habana, Cuba. Suspension-bearing. No. 910,988; Jan. 26; Sp. p. 5198; Gaz. vol. 138; p. 937.
- Buswell, E., assignor to T. Cascaden, Jr., Waterloo, Iowa. Fertilizer-distributor. No. 928,024; July 13; Sp. p. 2738; Gaz. vol. 144; p. 467.
- Buswell, E., and T. Cascaden, Jr., Waterloo, Iowa; said Buswell assignor to said Cascaden. Adjustable clamp. No. 927,942; July 13; Sp. p. 2590; Gaz. vol. 144; p. 441.
- Buswell, E., and T. Cascaden, Jr., Waterloo, Iowa; said Buswell assignor to said Cascaden. Fertilizer-distributor. No. 928,025; July 13; Sp. p. 2742; Gaz. vol. 144; p. 468.
- Buswell, E., and T. Cascaden, Jr., Waterloo, Iowa; said Buswell assignor to said Cascaden. Fertilizer-distributor. No. 928,026; July 13; Sp. p. 2749; Gaz. vol. 144; p. 469.
- Butchart, C. D., Denver, Colo. Head-gate-locking device. No. 918,002; Apr. 13; Sp. p. 2127; Gaz. vol. 141; p. 382.
- Butcher, E., Chanute, Kans. Railway-tie. No. 937,508; Oct. 19; Sp. p. 4007; Gaz. vol. 147; p. 680.
- Butcher, J. M., assignor to International Railroad Supply Company, St. Louis, Mo. Train-order-delivering apparatus. No. 908,839; Jan. 5; Sp. p. 849; Gaz. vol. 138; p. 133.
- Butcher, R. W., and J. L. Ferrin, Manila, Philippine Islands. Revolving and sliding chair. No. 909,751; Jan. 12; Sp. p. 2661; Gaz. vol. 138; p. 469.
- Butcher, S. S. (See Hamby and Butcher.)
- Butcher, A. C., Staatsburg, N. Y. Curtain-pole. No. 927,109; July 6; Sp. p. 864; Gaz. vol. 144; p. 138.
- Butkus, J. (See Butkus, J. A. and J.)
- Butkus, J. A., Baltimore, Md., and J. Butkus, assignors of one-third to G. Kreewin, Chicago, Ill. Bottle-closure. No. 935,296; Sept. 28; Sp. p. 4663; Gaz. vol. 146; p. 823.
- Butler, B. G., assignor of one-third to E. N. Joyner, Jr., Columbia, S. C. Flush-bowl. No. 913,355; Feb. 23; Sp. p. 4806; Gaz. vol. 139; p. 861.
- Butler, B. J., Lake Mills, Iowa. Combined feed heater and trough. No. 930,458; Aug. 10; Sp. p. 1681; Gaz. vol. 145; p. 304.
- Butler, B. M. (See Butler, W., assignor.)
- Butler, C. F., Marshall, Mich. Grate. No. 939,945; Nov. 9; Sp. p. 3289; Gaz. vol. 143; p. 542.
- Butler, C. H., Oakland, Cal. Street-sweeping machine. No. 909,865; Jan. 19; Sp. p. 2880; Gaz. vol. 138; p. 537.
- Butler, C. L., Pittsburg, Pa., assignor to L. O. Hillyard, Dubuque, Iowa. Door-check. No. 941,493; Nov. 30; Sp. p. 6724; Gaz. vol. 148; p. 1139.
- Butler, E. J., assignor to J. W. York and Sons, Grand Rapids, Mich. Tube-bending device. No. 916,530; Mar. 30; Sp. p. 5859; Gaz. vol. 140; p. 1051.
- Butler, F. O., assignor to American Suspension Railway Company, Philadelphia, Pa. Truck. No. 944,663; Dec. 28; Sp. p. 5671; Gaz. vol. 149; p. 984.
- Butler, G. P., New York, N. Y. Tobacco-leaf-stemming machine. No. 920,264; May 4; Sp. p. 367; Gaz. vol. 142; p. 57.
- Butler, H. E. (See Phillips, Harris, and Dearing, assignors.)
- Butler, H. G., Kenosha, Wis. Excavating-shovel. No. 923,405; June 1; Sp. p. 670; Gaz. vol. 143; p. 98.
- Butler, J., Salford, England. Molding-machine. No. 910,640; Jan. 26; Sp. p. 4538; Gaz. vol. 138; p. 827.
- Butler, J. A., Winthrop, Mass., and L. Flick, Saylesville, R. I. Fabric inspecting and marking machine. No. 915,267; Mar. 16; Sp. p. 3332; Gaz. vol. 140; p. 582.
- Butler, J. A., Winthrop, Mass., and L. Flick, Saylesville, R. I. Fabric folding and piling mechanism. No. 937,566; Oct. 19; Sp. p. 4119; Gaz. vol. 147; p. 701.
- Butler, J. D., Pavo, Ga. Washing-machine. No. 934,592; Sept. 21; Sp. p. 3254; Gaz. vol. 146; p. 567.
- Butler, J. L., Alliance, Ohio. Flask. No. 921,949; May 18; Sp. p. 3834; Gaz. vol. 142; p. 671.
- Butler, J. W., F. R. Briggs, and E. H. Clark, assignors to Auto Funeral Car Company, Cleveland, Ohio. Body for auto funeral-cars. No. 928,179; July 13; Sp. p. 3044; Gaz. vol. 144; p. 520.
- Butler Manufacturing Company. (See Norquist, E. E., assignor.)
- Butler, R. B. (See Cox and Butler.)
- Butler, T. H., Baltimore, Md., and F. M. Widerman, New York, N. Y. Corn-husker. No. 915,934; Mar. 23; Sp. p. 4675; Gaz. vol. 140; p. 830.
- Butler, T. H., Baltimore, Md., and F. M. Widerman, New York, N. Y. Corn-harvester. No. 925,749; June 22; Sp. p. 5557; Gaz. vol. 143; p. 969.
- Butler, W., assignor of one-half to J. W. Munford, Springfield, Mo. Ratchet-screw punch. No. 910,902; Jan. 26; Sp. p. 5046; Gaz. vol. 138; p. 909.
- Butler, W., assignor of one-half to B. M. Butler, Wabeno, Wis. Mail-bag despatcher. No. 923,623; June 1; Sp. p. 1145; Gaz. vol. 143; p. 175.
- Butler, W. B., Rutland, Vt. Channeling-machine. No. 925,287; June 15; Sp. p. 4626; Gaz. vol. 143; p. 791.
- Butler, W. E., David City, Nebr. Lightning-arrester. No. 931,033; Aug. 17; Sp. p. 2949; Gaz. vol. 145; p. 522.
- Butler, W. F., Indianapolis, Ind., assignor to Sanitary Can Company, New York, N. Y. Machine for applying cement to can-caps. No. 938,460; Nov. 2; Sp. p. 15; Gaz. vol. 148; p. 5.
- Butler, W. M. (See Koehler and Butler.)
- Butler, W. M., assignor to Whitney Manufacturing Company, Hartford, Conn. Drive-chain. No. 913,618; Feb. 23; Sp. p. 5375; Gaz. vol. 139; p. 950.
- Butler, W. S., Boothwyn, Pa. Foldable vehicle-top. No. 928,584; July 20; Sp. p. 3918; Gaz. vol. 144; p. 684.
- Butler, W. W., Austinburg, Ohio. Fork and spoon holder. No. 943,517; Dec. 14; Sp. p. 3188; Gaz. vol. 149; p. 536.
- Butner, C. B. (See Chantler, J. E., assignor.)
- Butterfield, V., *et al.* (See Anderson, A., assignor.)
- Butterworth, G. H. (See Veevers and Butterworth.)
- Butterworth, J. W., Richmond, near Auckland, New Zealand. Automatic electric fire and heat alarm. No. 918,278; Apr. 13; Sp. p. 2683; Gaz. vol. 141; p. 475.
- Buttler, W., Indianapolis, Ind. Ice-cream-containing cabinet and soda-fountain. No. 930,528; Aug. 10; Sp. p. 1868; Gaz. vol. 145; p. 330.
- Buttler, W., Indianapolis, Ind. Ice-cream-containing cabinet and soda-fountain. No. 930,529; Aug. 10; Sp. p. 1871; Gaz. vol. 145; p. 330.
- Buttlorff, J. H., Greeley, Colo. Head-gate. No. 915,159; Mar. 16; Sp. p. 3123; Gaz. vol. 140; p. 548.
- Buttress, G. and J. A., Los Angeles, Cal.; said G. Buttress assignor to said J. A. Buttress. Double automatic window-lock. No. 935,584; Sept. 28; Sp. p. 5267; Gaz. vol. 146; p. 923.
- Buttress, J. A. (See Buttress, G. and J. A.)
- Butts, A. C., Jr., New York, N. Y. Cream-dipper. No. 936,757; Oct. 12; Sp. p. 2421; Gaz. vol. 147; p. 404.
- Butts, C. K., Celina, Tex. Railway-spike. No. 933,743; Sept. 14; Sp. p. 1613; Gaz. vol. 146; p. 265.
- Butts, D. G., assignor to himself and J. C. Seyl, Chicago, Ill. Envelop-sealing machine. No. 922,255; May 18; Sp. p. 4451; Gaz. vol. 142; p. 773.
- Butz, A. M., deceased, Oak Park; E. E. Butz, executrix, assignor, by mesne assignments, to H. E. Bullock, Chicago, Ill. Temperature-regulating apparatus. No. 910,269; Jan. 19; Sp. p. 3760; Gaz. vol. 138; p. 677.
- Butz, E. E., executrix. (See Butz, A. M.)
- Butz, S., Easton, Pa. Paving-block. No. 930,153; Aug. 3; Sp. p. 1118; Gaz. vol. 145; p. 181.
- Butz, S., Easton, Pa. Building-block. No. 943,518; Dec. 14; Sp. p. 3189; Gaz. vol. 149; p. 536.



*Alphabetical list of patentees—Continued.*

- Butz, W. D., Norristown, Pa. Hosiery. No. 915,551; Mar. 16; Sp. p. 3906; Gaz. vol. 140; p. 676.
- Bux, J. R., Philadelphia, Pa. Hair waver or curler. No. 938,552; Nov. 2; Sp. p. 257; Gaz. vol. 148; p. 37.
- Buzzell, A. L., Wabasha, Minn. Lid-holder and indicator. No. 917,245; Apr. 6; Sp. p. 586; Gaz. vol. 141; p. 101.
- Byer, W. M., Jersey City, N. J. Liquid-dispensing device. No. 924,887; June 15; Sp. p. 3857; Gaz. vol. 143; p. 657.
- Byer, W. M., Jersey City, N. J. Disinfecting apparatus. No. 940,921; Nov. 23; Sp. p. 5471; Gaz. vol. 148; p. 928.
- Byers, C. P., Velva, N. D. Smoke-stack. No. 926,167; June 29; Sp. p. 6455; Gaz. vol. 143; p. 1144.
- Byers, F. T., Mount Pleasant, Pa. Removing loose materials, dust, and gases from mines. (Reissue.) No. 12,923; Feb. 23; Sp. p. 5503; Gaz. vol. 139; p. 969.
- Byers, F. T., Mount Pleasant, Pa. Extinguishing fires in mines. No. 924,599; June 8; Sp. p. 3231; Gaz. vol. 143; p. 527.
- Byers, J. A., Centerville, assignor of one-half to J. R. Byers. Chattanooga, Tenn. Railway-tie. No. 921,081; May 11; Sp. p. 2019; Gaz. vol. 142; p. 355.
- Byers, J. J., Cameron, Mo., assignor to National Malleable Castings Company, Cleveland, Ohio. Truck-bolster and car-truck. No. 919,690; Apr. 27; Sp. p. 5867; Gaz. vol. 141; p. 1007.
- Byers, J. J., Cameron, Mo., assignor to National Malleable Castings Company, Chicago, Ill. Truck-bolster. No. 939,946; Nov. 9; Sp. p. 3290; Gaz. vol. 148; p. 542.
- Byers, J. R. (See Byers, J. A., assignor.)
- Byers, M. L., St. Louis, Mo. Railway-rail fastener. No. 928,496; July 20; Sp. p. 3728; Gaz. vol. 144; p. 656.
- Byers, O. J. L., Santa Rosa, Cal. Adjustable axle-cutter. No. 931,729; Aug. 24; Sp. p. 4463; Gaz. vol. 145; p. 777.
- Byers, W. J. (See Parry and Byers.)
- Bynum, A., Strathcona, Alberta, Canada. Rail-joint. No. 940,633; Nov. 16; Sp. p. 4847; Gaz. vol. 148; p. 807.
- Byor, G. A., Edgar, Nebr. Scoop-handle. No. 911,291; Feb. 2; Sp. p. 533; Gaz. vol. 139; p. 91.
- Byram Foundry Company. (See Tynan, J. A., assignor.)
- Byrd, B. E., assignor to Byrd Mfg. Co., Durham, N. C. Knotter. No. 934,388; Sept. 14; Sp. p. 2857; Gaz. vol. 146; p. 477.
- Byrd, B. E., assignor to Byrd Mfg. Co., Durham, N. C. Knotter. No. 934,389; Sept. 14; Sp. p. 2860; Gaz. vol. 146; p. 477.
- Byrd, B. E., assignor to Byrd Mfg. Co., Durham, N. C. Knotter. No. 937,693; Oct. 19; Sp. p. 4347; Gaz. vol. 147; p. 141.
- Byrd Mfg. Co. (See Byrd, B. E., assignor.)
- Byrne, C. F. (See Evans, S. J., assignor.)
- Byrne, G. and T. B., Akron, Iowa. Grain-conveyer. No. 941,060; Nov. 23; Sp. p. 5771; Gaz. vol. 148; p. 974.
- Byrne, J. F., Battle Creek, Mich. Box or container. No. 941,356; Nov. 30; Sp. p. 6417; Gaz. vol. 148; p. 1094.
- Byrne, J. L. (See Goodykoontz, F. A., assignor.)
- Byrne, J. L. (See Goodykoontz and Byrne.)
- Byrne, J. R., Schenectady, N. Y., assignor to General Electric Company. Pull-socket. No. 916,975; Apr. 6; Sp. p. 25; Gaz. vol. 141; p. 8.
- Byrne, J. R., Schenectady, N. Y., assignor to General Electric Company. Lamp-socket. No. 918,654; Apr. 20; Sp. p. 3507; Gaz. vol. 141; p. 627.
- Byrne, L. A. E. C., Lahore, India. Padlock. No. 936,863; Oct. 12; Sp. p. 2629; Gaz. vol. 147; p. 488.
- Byrne, R. E., Ottawa, Ontario, Canada. Fireproof window. No. 913,197; Feb. 23; Sp. p. 4486; Gaz. vol. 139; p. 808.
- Byrne, T. B. (See Byrne, G. and T. B.)
- Byrnes, C. B., Sewickley, Pa. Making axes and eye-tools. No. 914,240; Mar. 2; Sp. p. 1246; Gaz. vol. 140; p. 194.
- Byrnes, H. J., New Denver, British Columbia, Canada. Wire-netting stretcher. No. 936,600; Oct. 12; Sp. p. 2110; Gaz. vol. 147; p. 350.
- Byrnes, J. E., Rochester, N. Y. Washboard. No. 937,985; Oct. 26; Sp. p. 4973; Gaz. vol. 147; p. 857.
- Byrnes, J. R., Hutchinson, Kans. Windmill-power saver. No. 938,966; Nov. 2; Sp. p. 1119; Gaz. vol. 148; p. 179.
- Byrnes, R. (See Phelps, R. N. R., assignor.)
- Byrnes, T. M., Chicopee, Mass. Combined type-bar and hanger. No. 936,089; Oct. 5; Sp. p. 1035; Gaz. vol. 147; p. 157.
- Byron, J. G., Fosters Meadow, N. Y. Collapsible crate. No. 917,539; Apr. 6; Sp. p. 1137; Gaz. vol. 141; p. 199.
- Byron Jackson Iron Works. (See Jackson, F. H., assignor.)
- Bystrom, J., Chicago, Ill., assignor to Baker-Vawter Company, Portland, Me. Loose-leaf ledger. No. 933,885; Sept. 14; Sp. p. 1880; Gaz. vol. 146; p. 310.
- C. Chambers Inskeep Co. (See Shepard, L. B., assignor.)
- C. Elmer Pope Paper Company. (See Pope, E. J., assignor.)
- C. A. Mezger. (See Conover, E. K., assignor.)
- C. B. Cottrell & Sons Company. (See Babcock, E. E., assignor.)
- C. B. Cottrell & Sons Company. (See Barber, H. M., assignor.)
- C. B. Cottrell & Sons Company. (See Barber, H. M., assignor.) (Reissue.)
- C. B. Cottrell & Sons Company. (See Cottrell, A. M., assignor.)
- C. B. Cottrell & Sons Company. (See Humphry, J., assignor.)
- C. B. McLean, trustee. (See Hosack, Geltz, and McBane, assignors.)
- C. B. Seal Company. (See Batchelor, C. C., assignor.)
- C & C Electric Company. (See Siebenmorgen, W., assignor.)
- C. E. Bonner Manufacturing Company. (See Bonner, C. E., assignor.)
- C. F. Pease Blue Print Machinery and Supply Company. (See Gawler, H. C., assignor.)
- C. G. Sargent's Sons. (See Furbush, F. L., assignor.)
- C. G. Sargent's Sons. (See Sargent, F. G., assignor.)
- C. G. Sargent's Sons Corporation. (See Sargent, A. C., assignor.)
- C. G. Sargent's Sons Corporation. (See Sargent, F. G., assignor.)
- C. H. Wheeler Manufacturing Co. (See Pratt, L. L., assignor.)
- C. I. Yale Manufacturing Co. (See Peck, C. E., assignor.)
- C. P. Henry Novelty Company. (See Henry, J. N., assignor.)
- C. P. Power Company. (See Reeve, S. A., assignor.)
- C. R. Carver Company. (See Lockwood, E. M., assignor.)
- C. T. Carnahan Manufacturing Co. (See Carnahan and Murphy, assignors.)
- C. T. Ham Manufacturing Company. (See Bergener, C., assignor.)
- C. T. Patterson Company. (See Coleman, T. A., assignor.)
- C. W. Hunt Company. (See Aumund, H., assignor.)
- C. W. Hunt Company. (See Hunt, W. F., assignor.)
- C. W. Raymond Co. (See Justice, I. M., assignor.)
- Cabanne, J. P., St. Louis, Mo. Fermentation of milk. No. 944,013; Dec. 21; Sp. p. 4274; Gaz. vol. 149; p. 736.
- Cable, B. T. (See Dey, H. E., assignor.)
- Cable Company. (See Klugh, P. B., assignor.)
- Cable, D. J., assignor of one-half to J. A. Harper, Pittsburg, Pa. Packing box or case. No. 933,287; Sept. 7; Sp. p. 586; Gaz. vol. 146; p. 90.
- Cable, F. E. (See Porter and Cable.)
- Cable, J., Seattle, Wash. Sweeping apparatus. No. 941,494; Nov. 30; Sp. p. 6726; Gaz. vol. 148; p. 1140.
- Cabot, S., Brookline, Mass. Circuit-controller. No. 917,749; Apr. 13; Sp. p. 1559; Gaz. vol. 141; p. 295.
- Cabot, S., Brookline, Mass. Space telegraphy. No. 937,281; Oct. 19; Sp. p. 3503; Gaz. vol. 147; p. 606.
- Cabot, S., Brookline, Mass. Space telegraphy. No. 937,282; Oct. 19; Sp. p. 3507; Gaz. vol. 147; p. 606.
- Cabot, S., Brookline, Mass., assignor to Stone Telegraph and Telephone Company. Space telegraphy. No. 908,742; Jan. 5; Sp. p. 666; Gaz. vol. 138; p. 103.
- Cabot, S., Brookline, assignor to Stone Telegraph and Telephone Company, Boston, Mass. Relay. No. 916,840; Mar. 30; Sp. p. 6428; Gaz. vol. 140; p. 1148.
- Cachin, F., Zurich, Switzerland. Stop-valve. No. 913,356; Feb. 23; Sp. p. 4807; Gaz. vol. 139; p. 862.
- Cadallie Motor Car Company. (See Sweet, E. E., assignor.)
- Cade, B., Shelby, N. C. Composing and line-casting machine. No. 920,021; Apr. 27; Sp. p. 6530; Gaz. vol. 141; p. 1115.
- Cade, J. T., Arcola, N. J., assignor to Federal Signal Company, Albany, N. Y. Railway switch and signal controlling and operating system. No. 916,418; Mar. 30; Sp. p. 5597; Gaz. vol. 140; p. 1014.
- Cadenaccio, E., Sestri Ponente, Italy. Ball-mill. No. 925,288; June 15; Sp. p. 4628; Gaz. vol. 143; p. 791.
- Cadenhead, R. H., Comanche, Tex. Plow. No. 926,544; June 29; Sp. p. 7173; Gaz. vol. 143; p. 1267.
- Cadillac Cabinet Company. (See Bertram, H. W., assignor.)
- Cadillac Motor Car Company. (See Sweet, E. E., assignor.)
- Cadwallader, T., Salem, Ohio. Lawn-spray nozzle. No. 932,958; Aug. 31; Sp. p. 7010; Gaz. vol. 145; p. 1205.
- Cadwell, G. E., and N. E. Studebaker, Winfield, Kans. Hay rake and loader. No. 937,283; Oct. 19; Sp. p. 3508; Gaz. vol. 147; p. 606.
- Cadwell, H. W., Detroit, Mich. Puzzle. No. 931,677; Aug. 17; Sp. p. 4304; Gaz. vol. 145; p. 735.
- Cadwell, W. H., Williamston, Mich. Elevating-truck. No. 924,143; June 8; Sp. p. 2269; Gaz. vol. 143; p. 375.
- Cadwgan, T. C., Springfield, Ohio. Grinding-mill. No. 926,168; June 29; Sp. p. 6457; Gaz. vol. 143; p. 1144.

*Alphabetical list of patentees—Continued.*

- Cady, H. G., St. Louis, Mo. Lumber-drier. No. 933,744; Sept. 14; Sp. p. 1613; Gaz. vol. 146; p. 265.  
 Cady, I. D., Minneapolis, Minn. Holdback-hook. No. 927,220; July 6; Sp. p. 1071; Gaz. vol. 144; p. 174.  
 Cady, I. D., Minneapolis, Minn. Gate. No. 927,221; July 6; Sp. p. 1072; Gaz. vol. 144; p. 174.  
 Caesar, F. M., Rice Lake, Wis. Swaging-machine for vehicle-axles. No. 914,480; Mar. 9; Sp. p. 1740; Gaz. vol. 140; p. 299.  
 Caetani, G., Kellogg, Idaho. Water-jig. No. 923,328; June 1; Sp. p. 509; Gaz. vol. 143; p. 72.  
 Cafferty, T. S., Union, N. Y. Means for leveling and finishing surfaces of ballasted railway-tracks. No. 912,282; Feb. 16; Sp. p. 2589; Gaz. vol. 139; p. 477.  
 Cage, G. A., Denver, Colo. Touch key-finder for type-writers. No. 943,108; Dec. 14; Sp. p. 2338; Gaz. vol. 149; p. 397.  
 Cagle, M. F., Knoxville, Tenn. Bed-pan. No. 932,442; Aug. 31; Sp. p. 5936; Gaz. vol. 145; p. 1034.  
 Cahill Iron Works. (See Caldwell, F. H., assignor.)  
 Cahill, J. H., St. James, N. Y. Electrically-illuminated drinking-glass. No. 919,691; Apr. 27; Sp. p. 5368; Gaz. vol. 141; p. 1007.  
 Cahill, W. M., Winona, Minn. Animal-shears. No. 926,726; July 6; Sp. p. 13; Gaz. vol. 144; p. 5.  
 Cahill, W. M., Winona, Minn. Animal-shears. No. 926,727; July 6; Sp. p. 15; Gaz. vol. 144; p. 5.  
 Cahn, H. S. (See Joseph, P. E., assignor.)  
 Cahoon, C. B., New York, N. Y. Catamenial bandage. No. 938,967; Nov. 2; Sp. p. 1120; Gaz. vol. 148; p. 179.  
 Cahoon, E. R., Summit, N. J. Stove. No. 914,922; Mar. 9; Sp. p. 2640; Gaz. vol. 140; p. 442.  
 Cahoon, E. R., Summit, N. J. Stove. No. 941,974; Nov. 30; Sp. p. 7733; Gaz. vol. 148; p. 1302.  
 Cahoon, E. R., Troy, N. Y. Heating-stove. No. 914,923; Mar. 9; Sp. p. 2642; Gaz. vol. 140; p. 443.  
 Cahoon, E. R., Troy, N. Y. Heating-stove. No. 918,823; Apr. 20; Sp. p. 3875; Gaz. vol. 141; p. 683.  
 Cahoon, E. R., Troy, N. Y. Grate. No. 926,095; June 29; Sp. p. 6300; Gaz. vol. 143; p. 1119.  
 Cahoon, E. R., Troy, N. Y. Stove. No. 932,959; Aug. 31; Sp. p. 7011; Gaz. vol. 145; p. 1205.  
 Cahoon, E. R., Beaumont, Mass. Heating-stove. No. 928,737; July 20; Sp. p. 4225; Gaz. vol. 144; p. 736.  
 Cahic, L., Neumarkt, Germany. Priming charge for mines. No. 938,553; Nov. 2; Sp. p. 257; Gaz. vol. 148; p. 38.  
 Caille, C., Le Perreux, France. Valve mechanism for hot-water pumps. No. 930,646; Aug. 10; Sp. p. 2107; Gaz. vol. 145; p. 368.  
 Cain, C. M., *et al.* (See Todd, J. W., Jr., assignor.)  
 Cain, J. B., Frontenac, Minn. Mail-carrier. No. 929,120; July 27; Sp. p. 5007; Gaz. vol. 144; p. 891.  
 Cain, M. C., Welcome, Fla. Mail-carrier. No. 927,325; July 6; Sp. p. 1260; Gaz. vol. 144; p. 208.  
 Cain, T. A., assignor to Wiley & Russell Manufacturing Co., Greenfield, Mass. Elastic die-stock. No. 925,289; June 15; Sp. p. 4630; Gaz. vol. 143; p. 791.  
 Cain, W. T. (See Trickey and Cain.)  
 Cairne, J. B., Bellingham, Wash. Nut-locking washer. No. 933,886; Sept. 14; Sp. p. 1882; Gaz. vol. 146; p. 311.  
 Cairncross, R. L., Beaumont, Tex. Signal. No. 931,382; Aug. 17; Sp. p. 3729; Gaz. vol. 145; p. 643.  
 Cairns, A. M., Des Moines, Iowa. Match-safe. No. 926,316; June 29; Sp. p. 6758; Gaz. vol. 143; p. 1192.  
 Cairns, C. A., *et al.* (See Rouse, G. S., assignor.)  
 Cairns, J., London, England. Cushion-heel. No. 935,089; Sept. 28; Sp. p. 4260; Gaz. vol. 146; p. 762.  
 Cairns, W., assignor to Parish and Bingham Company, Cleveland, Ohio. Step or running-board. No. 937,415; Oct. 19; Sp. p. 3812; Gaz. vol. 147; p. 649.  
 Cake, J. C., Norristown, Pa. Portable rotary oven-bottom. No. 920,109; May 4; Sp. p. 18; Gaz. vol. 142; p. 4.  
 Calantariens, J. A., Scarborough, England. Building construction to resist the action of earthquakes. No. 932,443; Aug. 31; Sp. p. 5936; Gaz. vol. 145; p. 1035.  
 Calbraith, C. C., *et al.* (See Lesan, S. A., assignor.)  
 Calcutt, M. Y., Seattle, Wash. Sanitary telephone-transmitter. No. 943,386; Dec. 14; Sp. p. 2910; Gaz. vol. 149; p. 490.  
 Calcutt, R. B., Austin, Ill. Tire for vehicles. No. 914,481; Mar. 9; Sp. p. 1742; Gaz. vol. 140; p. 299.  
 Calcutt, R. B., Austin, Ill. Rubber cable and tire for vehicles. No. 916,992; Apr. 6; Sp. p. 53; Gaz. vol. 141; p. 14.  
 Caldbeck, W. H. (See Meyer and Caldbeck.)  
 Calder Grain Shocker Company. (See Calder, J., assignor.)  
 Calder, J., Hamilton, Ontario, assignor to Calder Grain Shocker Company, Limited, Hamilton, Canada. Apparatus for shocking grain. No. 914,790; Mar. 9; Sp. p. 2388; Gaz. vol. 140; p. 401.  
 Calder, J. W., Parnassus, Pa. Railway-tie. No. 909,752; Jan. 12; Sp. p. 2663; Gaz. vol. 138; p. 469.  
 Caldwell, A. C., Sacramento, Cal. Sanitary washable case for comfortables. No. 938,968; Nov. 2; Sp. p. 1121; Gaz. vol. 148; p. 179.  
 Caldwell, C. D., Paris, Tex. Artificial-fish hook. No. 919,820; Apr. 27; Sp. p. 6155; Gaz. vol. 141; p. 1050.  
 Caldwell, D. M. (See Roumillat and Caldwell.)  
 Caldwell, E. (See Thomas, N., assignor.)  
 Caldwell, E., Burlington, Wis. Fastening. No. 924,633; June 15; Sp. p. 3321; Gaz. vol. 143; p. 571.  
 Caldwell, E., Burlington, Wis. Comb. No. 938,040; Oct. 26; Sp. p. 5090; Gaz. vol. 147; p. 876.  
 Caldwell, E. W., New York, N. Y. X-ray apparatus. No. 931,034; Aug. 17; Sp. p. 2951; Gaz. vol. 145; p. 522.  
 Caldwell, F. H., Chattanooga, Tenn. Sink. No. 918,124; Apr. 13; Sp. p. 2368; Gaz. vol. 141; p. 424.  
 Caldwell, F. H., assignor to Cahill Iron Works, Chattanooga, Tenn. Sink, washtub, and similar article. No. 928,425; July 20; Sp. p. 3586; Gaz. vol. 144; p. 634.  
 Caldwell, J. A., Montclair, N. J. Mechanical stoker. No. 917,750; Apr. 13; Sp. p. 1565; Gaz. vol. 141; p. 295.  
 Caldwell, J. H., Philadelphia, Pa. Cluster-fixture for electric lights. No. 933,887; Sept. 14; Sp. p. 1883; Gaz. vol. 146; p. 311.  
 Caldwell, J. S., assignor of one-half to F. M. Jackson, Kansas City, Mo. Flush-tank supply-valve. No. 913,808; Mar. 2; Sp. p. 274; Gaz. vol. 140; p. 46.  
 Caldwell, J. W., Toronto, Ontario, Canada. Ladder. No. 938,638; Nov. 2; Sp. p. 430; Gaz. vol. 148; p. 66.  
 Caldwell, J. W., Coolamon, New South Wales, Australia. Auger-bit. No. 940,426; Nov. 16; Sp. p. 4412; Gaz. vol. 148; p. 738.  
 Caldwell Machine Company *et al.* (See Schmidt, G. F., assignor.)  
 Caldwell Manufacturing Company. (See Ralston, W. A., assignor.)  
 Caldwell, O. C., assignor of one-half to L. Jacobs, Klamath Falls, Oreg. Adjustable wrench. No. 920,536; May 4; Sp. p. 900; Gaz. vol. 142; p. 145.  
 Caldwell, W. A., Jr., Roswell, N. Mex. Ter. Attachment for gas stoves, lamps, &c. No. 922,666; May 25; Sp. p. 5290; Gaz. vol. 142; p. 935.  
 Calef, E. M., Ashland, Oreg. Wickerwork. No. 936,520; Oct. 12; Sp. p. 1952; Gaz. vol. 147; p. 322.  
 Calchuff, C. A., *et al.* (See Triviss, J. H., assignor.)  
 Caler, C. H., New Brighton, Pa. Window-lock. No. 912,805; Feb. 16; Sp. p. 3730; Gaz. vol. 139; p. 656.  
 Calera Mining Company. (See Pringle, C. A., assignor.)  
 Caleson, C. H., Spokane, Wash. Excavator. No. 912,806; Feb. 16; Sp. p. 3731; Gaz. vol. 139; p. 656.  
 Calhoun, J. C., assignor of one-half to G. P. Hummer, Holland, Mich. Automatically-operated electric switch. No. 919,535; Apr. 27; Sp. p. 5545; Gaz. vol. 141; p. 953.  
 California Clutch Co. (See Shearer, J. E., assignor.)  
 Calkins, A. B., Belleville, N. J. Splint-boxing machinery. No. 916,666; Mar. 30; Sp. p. 6108; Gaz. vol. 140; p. 1095.  
 Calkins, A. B., Belleville, N. J. Carrier for box-filling machines. No. 916,667; Mar. 30; Sp. p. 6115; Gaz. vol. 140; p. 1095.  
 Calkins, A. C., assignor to Calkins Company, Los Angeles, Cal. Burner. No. 929,076; July 27; Sp. p. 4914; Gaz. vol. 144; p. 876.  
 Calkins, A. C., assignor to Calkins Company, Los Angeles, Cal. Burner. No. 929,077; July 27; Sp. p. 4915; Gaz. vol. 144; p. 876.  
 Calkins Company. (See Calkins, A. C., assignor.)  
 Calkins, M. E. (See Simpson, H. W., assignor.)  
 Calkins, M. P., Varysburg, N. Y. Bean and peanut harvester and picker. No. 944,945; Dec. 28; Sp. p. 6267; Gaz. vol. 149; p. 1077.  
 Call, C. C., Springfield, Mass. Cork-pulling device. No. 911,292; Feb. 2; Sp. p. 535; Gaz. vol. 139; p. 91.  
 Call, I. A., Salt Lake City, Utah. Automatic railway-switch. No. 928,738; July 20; Sp. p. 4228; Gaz. vol. 144; p. 736.  
 Callaghan, A. J., Jackson, Mich. Cutting implement. No. 916,993; Apr. 6; Sp. p. 54; Gaz. vol. 141; p. 14.  
 Callahan, A. F., Winnetka, Ill. Bottle structure. No. 937,049; Oct. 19; Sp. p. 3012; Gaz. vol. 147; p. 528.  
 Callahan, C. J., *et al.* (See Ray, A. D., assignor.)  
 Callahan, D. H., Westbrook, assignor of two-thirds to G. C. and S. A. Lewis, Kelly, N. C. Cotton-chopper. No. 913,468; Feb. 23; Sp. p. 5033; Gaz. vol. 139; p. 899.  
 Callahan, J. H. (See Browne, G. P., assignor.)  
 Callahan, J. P., Chicago, Ill. Braking mechanism. No. 934,425; Sept. 21; Sp. p. 2941; Gaz. vol. 146; p. 513.  
 Callahan, L. C., and P. W. Eskridge, Rutherfordton, N. C. Wire-connector. No. 924,426; June 8; Sp. p. 2876; Gaz. vol. 143; p. 470.  
 Callam, W., Wilkes-Barre, assignor to Adder Machine Company, Kingston, Pa. Ribbon feeding and reversing mechanism for adding-machines. No. 917,246; Apr. 6; Sp. p. 589; Gaz. vol. 141; p. 101.  
 Callan, J. G., Nahant, Mass., assignor to General Electric Company. Elastic-fluid turbine. No. 910,170; Jan. 19; Sp. p. 3497; Gaz. vol. 138; p. 639.  
 Callan, J. G., Lynn, Mass., assignor to General Electric Company. Cooling dynamo-electric machines. No. 920,725; May 4; Sp. p. 1295; Gaz. vol. 142; p. 208.  
 Callan, J. G., Lynn, Mass., assignor to General Electric Company. Balancing device. No. 922,561; May 25; Sp. p. 5078; Gaz. vol. 142; p. 901.



*Alphabetical list of patentees—Continued.*

- Callan, J. G., Lynn, Mass., assignor to General Electric Company. Nozzle for elastic-fluid turbines. No. 922,562; May 25; Sp. p. 5081; Gaz. vol. 142; p. 901.
- Callan, J. G., Lynn, Mass., assignor to General Electric Company. Pump. No. 924,730; June 15; Sp. p. 3515; Gaz. vol. 143; p. 604.
- Callan, J. G., Nahant, and W. Johnson, Lynn, Mass., assignors to General Electric Company. Combined emergency and throttle valve. No. 927,943; July 13; Sp. p. 2592; Gaz. vol. 144; p. 441.
- Callanan, J. T., assignor to Parkersburg Machine Company, Parkersburg, W. Va. Well-pumping mechanism. No. 919,318; Apr. 27; Sp. p. 5062; Gaz. vol. 141; p. 879.
- Callanan, W. A., *et al.* (See Maitland, J. L., assignor.)
- Callander, H. B., Guelph, Ontario, Canada. Hanger for elevated tracks. No. 933,416; Sept. 7; Sp. p. 856; Gaz. vol. 146; p. 133.
- Callaway, D. A., Pueblo, Colo. Safety hitching device for vehicles drawn by horses. No. 924,731; June 15; Sp. p. 3518; Gaz. vol. 143; p. 605.
- Callaway, D. A., assignor of one-third to H. G. De Tienne and one-third to L. I. Henry, Pueblo, Colo. Device for rotating eggs in incubators. No. 927,709; July 13; Sp. p. 2096; Gaz. vol. 144; p. 364.
- Callaway, E. H., Westfield, N. J., assignor to American Clay Machinery Company, Bucyrus, Ohio. Valve for the air-ducts of brick-kilns and the like. No. 917,710; Apr. 6; Sp. p. 1454; Gaz. vol. 141; p. 255.
- Callaway, E. H., Westfield, N. J., assignor to American Clay Machinery Company, Bucyrus, Ohio. Brick-drying rack. No. 926,924; July 6; Sp. p. 456; Gaz. vol. 144; p. 74.
- Callaway, E. H., Westfield, N. J., assignor to American Clay Machinery Company, Bucyrus, Ohio. Pulverizing or grinding mill. No. 944,073; Dec. 21; Sp. p. 4384; Gaz. vol. 149; p. 756.
- Callaway, J. T., Greenfield, Ill. Time-controlled apparatus. No. 922,256; May 18; Sp. p. 4457; Gaz. vol. 142; p. 773.
- Callender, A. C., Port Gibson, Miss. Road-working machine. No. 914,241; Mar. 2; Sp. p. 1247; Gaz. vol. 140; p. 195.
- Callender, B. C., Berros, Cal. Thimble. No. 925,801; June 22; Sp. p. 5697; Gaz. vol. 143; p. 987.
- Callender, M. N., San Francisco, Cal. Dental cuspidor. No. 920,265; May 4; Sp. p. 386; Gaz. vol. 142; p. 58.
- Callender, W. G., Mansfield, Ohio. Fish-stringer device. No. 936,701; Oct. 12; Sp. p. 2320; Gaz. vol. 147; p. 395.
- Callery, W. S., San Diego, Cal. Glass and dish cleaner. No. 910,641; Jan. 26; Sp. p. 4548; Gaz. vol. 138; p. 827.
- Calleson, A. (See Adriance and Calleson.)
- Calleson, A., assignor of one-half to B. Adriance, Brooklyn, N. Y. Bottling-machine. No. 919,319; Apr. 27; Sp. p. 5063; Gaz. vol. 141; p. 879.
- Calley, F. A., Franklin, N. H. Apparatus for baking beans. No. 909,988; Jan. 19; Sp. p. 3144; Gaz. vol. 138; p. 581.
- Callis, C., and W. D. Fulbright, Springfield, Mo. Mop-wringer. No. 943,650; Dec. 21; Sp. p. 3514; Gaz. vol. 149; p. 612.
- Callow, J., Liverpool, England. Apparatus for molding dough. No. 917,711; Apr. 6; Sp. p. 1456; Gaz. vol. 141; p. 255.
- Calsen, J., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Santalol ether. No. 909,541; Jan. 12; Sp. p. 2240; Gaz. vol. 138; p. 398.
- Calsen, J., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Santalol ether. (Reissue.) No. 13,008; Aug. 17; Sp. p. 4413; Gaz. vol. 145; p. 749.
- Calm, M. (See Buchanan, J. P., assignor.)
- Calorie Fireless Cook Stove Company. (See Thoits and Gronberg, assignors.)
- Caloris Manufacturing Co. (See Keller, W. H., assignor.)
- Caloris Manufacturing Company. (See Durand, V., Jr., assignor.)
- Caloris Manufacturing Company. (See Friedrich, P. O. E., assignor.)
- Calumet Engineering Works. (See Aveling, C. W., assignor.)
- Calumet Engineering Works. (See Blake and Aveling, assignors.)
- Calumet Engineering Works. (See Krieger, J. T., assignor.)
- Calvert, B. C., and E. Frisbie, Shelburn, Ind. Violin tuning-peg. No. 909,753; Jan. 12; Sp. p. 2665; Gaz. vol. 138; p. 470.
- Calvert Sectional Hose Company. (See Calvert, W. R., assignor.)
- Calvert, W. R., assignor to Calvert Sectional Hose Company, Chickasha, Okla. Hose-pipe. No. 927,635; July 13; Sp. p. 1939; Gaz. vol. 144; p. 340.
- Calvin, M., and M. Kaufman, New Orleans, La. Clamp. No. 923,329; June 1; Sp. p. 512; Gaz. vol. 143; p. 73.
- Camden Cabinet Company. (See Blasier, G. M., assignor.)
- Cameragraph Company. (See Ellis, C. J., assignor.)
- Cameron, A., Jackson, Mich. Dumping-wagon. No. 926,169; June 29; Sp. p. 6459; Gaz. vol. 143; p. 1145.
- Cameron, A. B. (See Boykin, W. W., assignor.)
- Cameron, A. II., Knox township, Columbiana county, Ohio. Pulley-clutch. No. 939,663; Nov. 9; Sp. p. 2696; Gaz. vol. 148; p. 444.
- Cameron, A. W. (See Hinks-Martin, Cameron, and Packman.)
- Cameron, E. S. and F. F., Brockton, Mass. Rotary engine. No. 915,823; Mar. 23; Sp. p. 4486; Gaz. vol. 140; p. 795.
- Cameron, F. F. (See Cameron, E. S. and F. F.)
- Cameron, J., and B. Randolph, Detroit, Mich. Bin. No. 909,148; Jan. 12; Sp. p. 1488; Gaz. vol. 138; p. 270.
- Cameron, J. M., Cranberry, N. C. Pipe-coupling. No. 927,403; July 6; Sp. p. 1405; Gaz. vol. 144; p. 232.
- Cameron, S. S., Detroit, Mich. Last. No. 933,821; Sept. 14; Sp. p. 1750; Gaz. vol. 146; p. 290.
- Cameron, S. T., *et al.*, trustees. (See Mann, W. B., assignor.)
- Cameron, W. T., Philadelphia, Pa. High-pressure connection for fire systems. No. 916,268; Mar. 23; Sp. p. 5301; Gaz. vol. 140; p. 938.
- Cameron, D., Edinburgh, Scotland. Fountain-pen nib. No. 940,509; Nov. 16; Sp. p. 4593; Gaz. vol. 148; p. 766.
- Caminade, W. B., assignor to E. C. Lee, Camden, N. J. Shredding-machine. No. 912,807; Feb. 16; Sp. p. 3732; Gaz. vol. 139; p. 657.
- Cammack, H., Des Moines, Iowa. Gearing for washing-machines. No. 933,692; Sept. 7; Sp. p. 1491; Gaz. vol. 146; p. 224.
- Camors, V. (See Harding, D. J., assignor.)
- Camp, A. J., Birmingham, Ala. Car-record book. No. 937,923; Oct. 26; Sp. p. 4845; Gaz. vol. 147; p. 837.
- Camp Bros. & Co. (See Camp, J. E., assignor.)
- Camp, G. E., assignor to Standard Harrow Company, Utica, N. Y. Potato-digger. No. 919,281; Apr. 20; Sp. p. 4967; Gaz. vol. 141; p. 832.
- Camp, G. E., assignor to International Heater Company, Utica, N. Y. Furnace-casing ring. No. 944,257; Dec. 28; Sp. p. 4764; Gaz. vol. 149; p. 842.
- Camp, J. E., Washington, assignor to Camp Bros. & Co., Metamora, Ill. Hydraulic motor for portable grain-dumps. No. 909,278; Jan. 12; Sp. p. 1727; Gaz. vol. 138; p. 311.
- Camp, J. E., Washington, assignor to Camp Bros. & Co., Metamora, Ill. Hydraulic motor for wagon-dumps. No. 909,279; Jan. 12; Sp. p. 1732; Gaz. vol. 138; p. 311.
- Camp, J. E., Washington, assignor to Camp Bros. & Co., Metamora, Ill. Hydraulic motor for wagon-dumps. No. 909,280; Jan. 12; Sp. p. 1735; Gaz. vol. 138; p. 312.
- Camp, J. E., Washington, assignor to Camp Bros. & Co., Metamora, Ill. Wagon-dump. No. 909,281; Jan. 12; Sp. p. 1738; Gaz. vol. 138; p. 312.
- Camp, J. G. (See Heintzelman and Camp.)
- Camp, L. H. (See Camp, W. L., assignor.)
- Camp, P. R. (See Hudson and Camp.)
- Camp, S. G. (See Dodge and Camp.)
- Camp, W. L., assignor of one-half to L. H. Camp, Joppa, Ala. Plow-point attachment. No. 943,001; Dec. 14; Sp. p. 2095; Gaz. vol. 149; p. 360.
- Campagna, E. W., Randolph, Mass. Pocket saw-jointer. No. 931,992; Aug. 24; Sp. p. 5032; Gaz. vol. 145; p. 862.
- Campanello, J. A., and F. D'Aversa, New York, N. Y. Hair-clipper. No. 929,549; July 27; Sp. p. 5872; Gaz. vol. 144; p. 1032.
- Campbell, A., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car. No. 913,357; Feb. 23; Sp. p. 4808; Gaz. vol. 139; p. 862.
- Campbell, A., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car. No. 913,358; Feb. 23; Sp. p. 4809; Gaz. vol. 139; p. 862.
- Campbell, A., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car. No. 914,242; Mar. 2; Sp. p. 1248; Gaz. vol. 140; p. 195.
- Campbell, A., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car. No. 937,416; Oct. 19; Sp. p. 3813; Gaz. vol. 147; p. 649.
- Campbell, A., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car. No. 937,417; Oct. 19; Sp. p. 3814; Gaz. vol. 147; p. 649.
- Campbell, A., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car. No. 937,418; Oct. 19; Sp. p. 3815; Gaz. vol. 147; p. 649.
- Campbell, A., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car. No. 937,419; Oct. 19; Sp. p. 3817; Gaz. vol. 147; p. 650.
- Campbell, A. C., assignor to E. J. Manville Machine Company, Waterbury, Conn. Metal-heading machine. No. 926,170; June 29; Sp. p. 6463; Gaz. vol. 143; p. 1145.

*Alphabetical list of patentees—Continued.*

- Campbell, A. M., and I. Howard, Harrison, Ohio, assignors to Campbell Corn Drill Co. Seed-drill. No. 936,408; Oct. 12; Sp. p. 1694; Gaz. vol. 147; p. 285.
- Campbell, A. S. (See Daniels, H. H., assignor.)
- Campbell, A. S., Orionville, Minn. Ore-separator. No. 913,258; Feb. 23; Sp. p. 4614; Gaz. vol. 139; p. 828.
- Campbell-Bosworth Machinery Company. (See Dorsey, F. F., assignor.)
- Campbell, C., Newark, N. J., assignor to National Hoisting Engine Company. Hoisting-engine. No. 908,948; Jan. 5; Sp. p. 1050; Gaz. vol. 135; p. 169.
- Campbell, C. D., Lincoln, Nebr. Twin-boom adjustable excavator and dredge. No. 926,096; June 29; Sp. p. 6302; Gaz. vol. 143; p. 1119.
- Campbell, C. E., Detroit, Mich. Machine for clipping envelopes. No. 938,741; Nov. 2; Sp. p. 627; Gaz. vol. 148; p. 99.
- Campbell, C. H. (See Campbell, J. H. and C. H.)
- Campbell, C. L., *et al.* (See Riggs, A. W., assignor.)
- Campbell, C. R., *et al.* (See Brown, J. B., assignor.)
- Campbell Corn Drill Co. (See Campbell and Howard, assignors.)
- Campbell, D. L., Rosemary, N. C. Combination padlock. No. 941,128; Nov. 23; Sp. p. 5924; Gaz. vol. 148; p. 997.
- Campbell, E. H., Blooming Grove, Tex., assignor to Continental Gin Company, Birmingham, Ala. Automatic cotton-tramper. No. 926,046; June 22; Sp. p. 6179; Gaz. vol. 143; p. 1067.
- Campbell, E. N., *et al.* (See Devore, F. M., assignor.)
- Campbell, E. N., Council Bluffs, Iowa. Float-valve for water-tanks. No. 940,127; Nov. 16; Sp. p. 3732; Gaz. vol. 148; p. 635.
- Campbell, F. L. (See Reinmiller and Campbell.)
- Campbell, G. M., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Party-line indicating-key. No. 911,377; Feb. 2; Sp. p. 691; Gaz. vol. 139; p. 118.
- Campbell, G. W., Columbus, Ohio. Mortising-machine. No. 921,795; May 18; Sp. p. 3500; Gaz. vol. 142; p. 622.
- Campbell, H. (See Read and Campbell.)
- Campbell, H. E., New Haven, Conn. Safety attachment for gas-lighting burners. No. 944,771; Dec. 28; Sp. p. 5911; Gaz. vol. 149; p. 1019.
- Campbell, H. S. (See Krouse, J. H., assignor.)
- Campbell, J. C. L., Blairgowrie, Scotland. Treating fruit. No. 909,542; Jan. 12; Sp. p. 2241; Gaz. vol. 138; p. 338.
- Campbell, J. C. L., Achalader, Blairgowrie, Scotland. Apparatus for use in the treatment of fruit. No. 909,754; Jan. 12; Sp. p. 2666; Gaz. vol. 138; p. 470.
- Campbell, J. D., Brooklyn, N. Y. Pull-support. No. 915,712; Mar. 16; Sp. p. 4247; Gaz. vol. 140; p. 732.
- Campbell, J. F., *et al.* (See Parsons, M., assignor.)
- Campbell, J. F., Philadelphia, Pa. Cutting-tool for boring or drilling machines. No. 918,003; Apr. 13; Sp. p. 2128; Gaz. vol. 141; p. 332.
- Campbell, J. F., McKeesport, Pa., assignor to Pittsburgh Steel Foundry, Pittsburg, Pa. Annealing-box. No. 908,949; Jan. 5; Sp. p. 1053; Gaz. vol. 138; p. 170.
- Campbell, J. H., New York, N. Y., and C. H. Campbell, Philadelphia, Pa., assignors to National Nutrient Company, Jersey City, N. J. Desiccating milk. No. 910,784; Jan. 26; Sp. p. 4821; Gaz. vol. 138; p. 872.
- Campbell, J. M., assignor to one-half to W. G. Campbell, New Castle, Pa. Spacer. No. 927,110; July 6; Sp. p. 865; Gaz. vol. 144; p. 138.
- Campbell, J. S., London, England. Lock and fastening. No. 925,455; June 22; Sp. p. 4951; Gaz. vol. 143; p. 874.
- Campbell, J. W., Philadelphia, Pa. Convertible bed and sofa. No. 911,205; Feb. 2; Sp. p. 359; Gaz. vol. 139; p. 63.
- Campbell, J. W., Providence, R. I. Sprinkler. No. 941,671; Nov. 30; Sp. p. 7085; Gaz. vol. 148; p. 1197.
- Campbell, J. W., Germantown, N. Y., assignor to Ferguson Bros. Mfg. Co., Hoboken, N. J. Knockdown desk. No. 943,236; Dec. 14; Sp. p. 2592; Gaz. vol. 149; p. 439.
- Campbell, L. H., Providence, R. I. School-desk. No. 910,041; Jan. 19; Sp. p. 3241; Gaz. vol. 138; p. 598.
- Campbell, N., assignor to one-fourth to H. J. Sykes, one-fourth to J. W. Hayes, Elizabethtown, and one-fourth to G. H. Wilson, Cleves, Ohio. Traction-wheel. No. 928,848; July 20; Sp. p. 4432; Gaz. vol. 144; p. 772.
- Campbell, N. H. (See Strachan and Campbell.)
- Campbell, N. H., Binghamton, N. Y. Railway mail-handling apparatus. No. 942,054; Dec. 7; Sp. p. 23; Gaz. vol. 149; p. 6.
- Campbell, N. H., Binghamton, N. Y. Railway mail-catcher. No. 942,055; Dec. 7; Sp. p. 27; Gaz. vol. 149; p. 6.
- Campbell, O. M., Van Buren, Ark. Refrigerator. No. 933,059; Sept. 7; Sp. p. 45; Gaz. vol. 146; p. 8.
- Campbell, P. A., Chicago, Ill. Journal-box. No. 922,083; May 18; Sp. p. 4099; Gaz. vol. 142; p. 716.
- Campbell, P. A., Bloomfield, N. J. Method of and apparatus for repeating telephone-currents. No. 942,885; Dec. 14; Sp. p. 1813; Gaz. vol. 149; p. 320.
- Campbell, P. M. (See Breth and Campbell.)
- Campbell Printing Press & Manufacturing Company. (See Johnston, R. T., assignor.)
- Campbell Printing Press & Manufacturing Company. (See Jones, D. W., assignor.)
- Campbell Printing Press & Manufacturing Company. (See Wood, H. A. W., assignor.)
- Campbell, R. B. (See Olden, W. Q., assignor.)
- Campbell, R. C. (See North, R., assignor.)
- Campbell, R. H. (See Read and Campbell.)
- Campbell, R. J. (See Thomas, E. T., assignor.)
- Campbell, S. A., Watertown, assignor to Parker Manufacturing Company, Boston, Mass. Speed-indicating machine. No. 927,828; July 13; Sp. p. 2336; Gaz. vol. 144; p. 403.
- Campbell, S. A., assignor to one-half to J. R. Learned, Newton, Mass. Electric cigar-lighter. No. 938,368; Oct. 26; Sp. p. 5821; Gaz. vol. 147; p. 988.
- Campbell, S. E. C., Hamilton, Ontario, Canada. Skirt-marker. No. 942,375; Dec. 7; Sp. p. 718; Gaz. vol. 149; p. 117.
- Campbell, T. J., Lathrop, Mo. Grain-door. No. 911,701; Feb. 9; Sp. p. 1351; Gaz. vol. 139; p. 251.
- Campbell, T. S., assignor to one-half to W. J. Irwin, Toronto, Ontario, Canada. Game apparatus. No. 935,585; Sept. 28; Sp. p. 5269; Gaz. vol. 146; p. 924.
- Campbell, V., Itadena, Cal. Can-capping machine. No. 912,539; Feb. 16; Sp. p. 3141; Gaz. vol. 139; p. 563.
- Campbell, W. A., Marceline, Mo. Plow and scraper. No. 912,808; Feb. 16; Sp. p. 3734; Gaz. vol. 139; p. 657.
- Campbell, W. E., Chester, S. C. Automatic temperature-indicator. No. 934,281; Sept. 14; Sp. p. 2652; Gaz. vol. 146; p. 440.
- Campbell, W. E., and H. T. Ingham, Fairfield, Iowa. Automatic air-brake coupling. No. 941,348; Nov. 23; Sp. p. 6387; Gaz. vol. 148; p. 1068.
- Campbell, W. G. (See Campbell, J. M., assignor.)
- Campbell, W. G., Darlington, assignor to one-half to H. Thomas, Sumter, S. C. Mail-box penny-collector. No. 916,102; Mar. 23; Sp. p. 4996; Gaz. vol. 140; p. 885.
- Campus, C., New York, N. Y. Box for cigarettes and tobacco. No. 930,154; Aug. 3; Sp. p. 1120; Gaz. vol. 145; p. 182.
- Canadian Copy Company. (See Browne, D. H., assignor.)
- Canecheater, D. J., Chicago, Ill. Lamp-burner. No. 929,752; Aug. 3; Sp. p. 249; Gaz. vol. 145; p. 43.
- Canda Brothers. (See Canda, F. E., assignor.)
- Canda Brothers. (See Slatery, J., assignor.)
- Canda, F. E., assignor to Canda Brothers, New York, N. Y. Car-wheel and making the same. No. 925,423; June 15; Sp. p. 4868; Gaz. vol. 143; p. 833.
- Canda, F. E., assignor to Canda Brothers, New York, N. Y. Car-wheel and making the same. No. 925,424; June 15; Sp. p. 4872; Gaz. vol. 143; p. 833.
- Canda, F. E., assignor to Canda Brothers, New York, N. Y. Car-wheel. No. 934,835; Sept. 21; Sp. p. 3835; Gaz. vol. 146; p. 665.
- Candee, Z. P., assignor to Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Clutch mechanism. No. 920,726; May 4; Sp. p. 1297; Gaz. vol. 142; p. 208.
- Candlin, J. E. (See Ryan and Candlin.)
- Cane, W. E., assignor to W. J. Murray, Toronto, Ontario, Canada. Ball-bearing. No. 939,391; Nov. 9; Sp. p. 2102; Gaz. vol. 148; p. 351.
- Candey-Otto Manufacturing Company. (See Backstrom, M., assignor.)
- Caney, F. H., Newton, Mass. Cement-lined pipe and fittings. No. 942,436; Dec. 7; Sp. p. 835; Gaz. vol. 149; p. 137.
- Canfield, A. H., assignor to H. O. Canfield Company, Bridgeport, Conn. Reversible valve for flushing-tanks. No. 926,239; June 29; Sp. p. 6624; Gaz. vol. 143; p. 1168.
- Canfield, E., *et al.* (See Gwinn and Hovick, assignors.)
- Canfield, H. R., assignor, by mesne assignments, to F. Soss, New York, N. Y. Invisible hinge. No. 941,672; Nov. 30; Sp. p. 7086; Gaz. vol. 148; p. 1197.
- Canfield, R. R., Clearfield, Pa. Railway-tie. No. 933,417; Sept. 7; Sp. p. 857; Gaz. vol. 146; p. 134.
- Canham, V. H., Guelph, Ontario, Canada. Dressmaker's fitting-table. No. 913,692; Mar. 2; Sp. p. 26; Gaz. vol. 140; p. 7.
- Canine, C. W., Cincinnati, Ohio. Marking-machine for laundry articles. No. 927,487; July 13; Sp. p. 1607; Gaz. vol. 144; p. 289.
- Canine, C. W., Cincinnati, Ohio. Indicating mechanism. No. 927,636; July 13; Sp. p. 1940; Gaz. vol. 144; p. 340.
- Cannady, N. M., Franklinton, N. C. Letter-box. No. 910,355; Jan. 19; Sp. p. 3933; Gaz. vol. 138; p. 707.



*Alphabetical list of patentees—Continued.*

- Cannan, J. J., assignor to Henry Likly & Co., Rochester, N. Y. Drawer-cabinet. No. 922,852; May 25, Sp. p. 5678; Gaz. vol. 142; p. 995.
- Canne, H. L., Dingman township, Pike county, Pa. Metallic belt. No. 920,537; May 4; Sp. p. 902; Gaz. vol. 142; p. 145.
- Cannes, E., New York, N. Y. Concrete-reinforcing bar. No. 925,750; June 22; Sp. p. 5560; Gaz. vol. 143; p. 969.
- Canniff, W. L., New York, N. Y. Union hose and pipe coupling. No. 912,809; Feb. 16; Sp. p. 3736; Gaz. vol. 139; p. 657.
- Canning, R. W. (See Da Costa, J. S., assignor.)
- Cannon, B. B., *et al.* (See Bostian, H. C., assignor.)
- Cannon, E. E., Waukomis, Okla. Gate. No. 943,387; Dec. 14; Sp. p. 2911; Gaz. vol. 149; p. 490.
- Cannon, E. F., Portland, Oreg. Display apparatus. No. 920,538; May 4; Sp. p. 903; Gaz. vol. 142; p. 145.
- Cannon, E. F., Portland, Oreg. Display apparatus. No. 920,539; May 4; Sp. p. 904; Gaz. vol. 142; p. 146.
- Cannon, P. J., W. H. Young, and C. Bateholts, Schenectady, N. Y., assignors to General Electric Company. Insulating compound. No. 910,989; Jan. 26; Sp. p. 5200; Gaz. vol. 138; p. 937.
- Canon, L., Kansas City, Mo. Cloth-rolling tube. No. 934,502; Sept. 21; Sp. p. 3087; Gaz. vol. 146; p. 538.
- Canouts, W. O., Butternut, Mich. Folding chair. No. 937,567; Oct. 19; Sp. p. 4121; Gaz. vol. 147; p. 701.
- Canse, J. M., Seattle, Wash. Sectional bookcase. No. 925,562; June 22; Sp. p. 5155; Gaz. vol. 143; p. 908.
- Cantara, G. T., Biddeford, Me. Combination tool-vise and sharpening-gage. No. 938,969; Nov. 2; Sp. p. 1122; Gaz. vol. 148; p. 180.
- Canton Culvert Company. (See Klotz, W. N., assignor.)
- Canton Culvert Company. (See Schlafly, J. H., assignor.)
- Canton Foundry & Machine Company. (See Slentz, A. O., assignor.)
- Cantono, E., Rome, assignor to Società Anonima di Costruzioni Meccaniche Freni a Ricupero Cantono, Genoa, Italy. Automatic starting device for explosion-motors, &c. No. 944,316; Dec. 28; Sp. p. 4895; Gaz. vol. 149; p. 862.
- Cantrell, R. J., San Francisco, Cal. Clothes-line holder. No. 933,620; Sept. 7; Sp. p. 1348; Gaz. vol. 146; p. 200.
- Canty, M., Dorchester, Mass. Counter-skiving machine. No. 934,039; Sept. 14; Sp. p. 2171; Gaz. vol. 146; p. 359.
- Canutuson, C., Elsinore, Utah. Beet-blocker. No. 912,987; Feb. 23; Sp. p. 4065; Gaz. vol. 139; p. 737.
- Capell, C. F., Los Angeles, Cal. Gas-heated sad-iron. No. 924,037; June 8; Sp. p. 2047; Gaz. vol. 143; p. 340.
- Capell, G. M., Stony Stratford, England. Centrifugal fan and pump. No. 912,362; Feb. 16; Sp. p. 2763; Gaz. vol. 139; p. 503.
- Capen, W. C. (See Glanville, J. O., assignor.)
- Capers, J. T., Montgomery, Ala. Apparatus for handling acid phosphate and the like. No. 940,583; Nov. 16; Sp. p. 4748; Gaz. vol. 148; p. 790.
- Caperton, S. C., Campbellsburg, Tenn. Railway-tie. No. 916,841; Mar. 30; Sp. p. 6430; Gaz. vol. 140; p. 1148.
- Cappelaere, A., Lille, France, assignor to Rouissages Belges Legrand & Cie. Société Anonyme, Ghent, Belgium. Retting plant. No. 908,840; Jan. 5; Sp. p. 853; Gaz. vol. 138; p. 134.
- Capper, J. (See Salmon and Capper.)
- Cappoon, J. I., Syracuse, N. Y. Pressure-regulating valve. No. 932,960; Aug. 31; Sp. p. 7013; Gaz. vol. 145; p. 1206.
- Capps, F. L., assignor to American Graphophone Company, Bridgeport, Conn. Production of double-faced sound-records. No. 941,975; Nov. 30; Sp. p. 7737; Gaz. vol. 148; p. 1303.
- Capps, L. E. (See Medland and Capps.)
- Capron, M. F., Elyria, Ohio. Mill and method for rolling tubes. No. 923,944; June 8; Sp. p. 1861; Gaz. vol. 143; p. 310.
- Caps, J. E. (See Cartwright, C. A., assignor.)
- Car Heating & Lighting Company. (See Thomson, W. I., assignor.)
- Carabias, E., Mexico, Mexico. Inhaler. No. 933,360; Sept. 7; Sp. p. 739; Gaz. vol. 146; p. 115.
- Carbondale Machine Company. (See Hiller, N. H., assignor.)
- Carbone, A., New York, N. Y. Voice-reflector. No. 924,888; June 15; Sp. p. 3859; Gaz. vol. 143; p. 658.
- Carbone, T. L., Charlottenburg, Germany. Manufacturing elastic tires for wheels. No. 931,563; Aug. 17; Sp. p. 4068; Gaz. vol. 145; p. 700.
- Carborundum Company. (See Tone, F. J., assignor.)
- Card, E. M., Middlefield, Conn. Ice-cutting machine. No. 909,059; Jan. 5; Sp. p. 1274; Gaz. vol. 138; p. 205.
- Card, F. M., Bridgeport, Conn., assignor to Singer Manufacturing Company. Ruffling device for sewing-machines. No. 926,047; June 22; Sp. p. 6184; Gaz. vol. 143; p. 1068.
- Card, F. S. (See Card, W. L. and F. S.)
- Card, J. F., assignor to Sheffield Car Company, Three Rivers, Mich. Device for use in making armature-coils. No. 913,103; Feb. 23; Sp. p. 4233; Gaz. vol. 139; p. 776.
- Card, W. J., Edinboro, Pa. Can-closure. No. 934,792; Sept. 21; Sp. p. 3659; Gaz. vol. 146; p. 636.
- Card, W. L. and F. S., Denver, Colo. Concentrator-table support. No. 917,247; Apr. 6; Sp. p. 592; Gaz. vol. 141; p. 102.
- Cardell, C. O. L., assignor to T. C. Dexter, Pearl River, N. Y. Ratchet-releasing mechanism. No. 941,188; Nov. 23; Sp. p. 6063; Gaz. vol. 148; p. 1017.
- Cardin, A., Fall River, Mass. Horse-hitching device. No. 928,629; July 20; Sp. p. 4015; Gaz. vol. 144; p. 700.
- Cardozo, H. A. (See Lambert and Cardozo.)
- Cardwell, J. R., Chicago, Ill. Wallet. No. 940,853; Nov. 23; Sp. p. 5343; Gaz. vol. 148; p. 906.
- Cardwell, T. L., New Florence, Mo. Animal-holder. No. 922,667; May 25; Sp. p. 5292; Gaz. vol. 142; p. 935.
- Carey, A. B., Hythe, England. Cartridge-feed for firearms. No. 924,732; June 15; Sp. p. 3519; Gaz. vol. 143; p. 605.
- Carey, A. C., Boston, Mass. Electric signal for railways. No. 935,892; Oct. 5; Sp. p. 625; Gaz. vol. 147; p. 90.
- Carey, C. W., assignor of one-half to O. K. Truitt, Washington, D. C. Toy. No. 925,290; June 15; Sp. p. 4631; Gaz. vol. 143; p. 791.
- Carey, J. F., assignor of one-half to A. A. Jackson, New York, N. Y. Tip-cat. No. 910,903; Jan. 26; Sp. p. 5048; Gaz. vol. 138; p. 909.
- Carey, M., New York, N. Y. Ink-feeder for pens. No. 923,406; June 1; Sp. p. 672; Gaz. vol. 143; p. 98.
- Carey, O. O., Converse, Ind. Papering apparatus. No. 924,317; June 8; Sp. p. 2671; Gaz. vol. 143; p. 435.
- Carey, T. W., Jr., New Orleans, La. Oar-lock. No. 926,847; July 6; Sp. p. 300; Gaz. vol. 144; p. 48.
- Carey, W. J., Trenton, N. J. Wrapping, twisting, and polishing machine. No. 930,039; Aug. 3; Sp. p. 871; Gaz. vol. 145; p. 141.
- Cargill, L. W., Columbus, Ohio. Measuring attachment for concrete-mixers. No. 926,171; June 29; Sp. p. 6469; Gaz. vol. 143; p. 1146.
- Cargill, L. W., Columbus, Ohio. Feed mechanism for concrete-mixers. No. 926,172; June 29; Sp. p. 6470; Gaz. vol. 143; p. 1146.
- Cargill, L. W., Columbus, Ohio. Concrete-mixer. No. 935,891; Oct. 5; Sp. p. 624; Gaz. vol. 147; p. 90.
- Carhart, G. C., assignor to A. T. Brown, Syracuse, N. Y. Type-writing machine. No. 923,016; May 23, Sp. p. 6012; Gaz. vol. 142; p. 1047.
- Carithers, J. T., Morning Sun, Iowa. Tire. No. 916,668; Mar. 30; Sp. p. 6116; Gaz. vol. 140; p. 1095.
- Carlin, E. A., Medford, assignor to H. B. Mitchell, Malden, Mass. Quick-releasing whiffletree. No. 938,120; Oct. 26; Sp. p. 5273; Gaz. vol. 147; p. 903.
- Carl, F. J. and H. G., Chicago, Ill. Pedestal. No. 926,097; June 29; Sp. p. 6305; Gaz. vol. 143; p. 1120.
- Carl, H. G. (See Carl, F. J. and H. G.)
- Carl, R., Buffalo, N. Y. Last. No. 918,506; Apr. 20; Sp. p. 3149; Gaz. vol. 141; p. 577.
- Carlborg, O., assignor to Goodson Electric and Manufacturing Company, Providence, R. I. Combination lathe-tool. No. 940,301; Nov. 16; Sp. p. 4123; Gaz. vol. 148; p. 695.
- Carle, C. L. (See Badge and Carle.)
- Carlesimo, J., Buenos Ayres, Argentina. Dredging apparatus. No. 909,543; Jan. 12; Sp. p. 2242; Gaz. vol. 138; p. 398.
- Carlesimo, J., Buenos Ayres, Argentina. Dredge. No. 925,079; June 15; Sp. p. 4237; Gaz. vol. 143; p. 722.
- Carlesimo, J., Buenos Ayres, Argentina. Dredge. No. 934,593; Sept. 21; Sp. p. 3256; Gaz. vol. 146; p. 568.
- Carleton, H. E., Marietta, Ohio. Heater. No. 931,730; Aug. 24; Sp. p. 4465; Gaz. vol. 145; p. 777.
- Carleton, S. S., New York, N. Y., assignor to J. W. Ivory, Philadelphia, Pa. Dental matrix-clamp. No. 912,810; Feb. 16; Sp. p. 3736; Gaz. vol. 139; p. 657.
- Carlin, R., Opelousas, La. Press-box. No. 922,257; May 18; Sp. p. 4460; Gaz. vol. 142; p. 774.
- Carlisle, R. H., Covington, Ky. Strainer. No. 931,564; Aug. 17; Sp. p. 4070; Gaz. vol. 145; p. 701.
- Carlson, A., and O. Carlson, Sioux City, Iowa. Spring-wheel. No. 916,842; Mar. 30; Sp. p. 6431; Gaz. vol. 140; p. 1149.
- Carlson, A. E. (See Eagle and Carlson.)
- Carlson, A. E., assignor to E. Dannecker, Minneapolis, Minn. Ink-well. No. 908,544; Jan. 5; Sp. p. 236; Gaz. vol. 138; p. 40.
- Carlson, A. F., Axtell, Nebr. Cross-line buckle. No. 933,745; Sept. 14; Sp. p. 1614; Gaz. vol. 146; p. 266.
- Carlson, A. G., Sholes, Nebr. Tong. No. 928,849; July 20; Sp. p. 4434; Gaz. vol. 144; p. 773.
- Carlson, A. L., Center City, Minn. Hay-rack attachment. No. 913,693; Mar. 2; Sp. p. 27; Gaz. vol. 140; p. 7.
- Carlson, C., Kennedy, Minn. Water-gage. No. 928,304; July 20; Sp. p. 3371; Gaz. vol. 144; p. 593.
- Carlson, C. H., Iron Mountain, Mich. Butter and lard cutter. No. 933,621; Sept. 7; Sp. p. 1350; Gaz. vol. 146; p. 201.
- Carlson, C. H., Iron Mountain, Mich. Butter and lard cutter. No. 938,970; Nov. 2; Sp. p. 1123; Gaz. vol. 148; p. 180.
- Carlson, E. (See Dahlin and Carlson.)
- Carlson, E. W. (See Kennedy, Carlson, and Jeffes.)
- Carlson, F. W., Chicago, Ill. Silcock and other valve. No. 942,541; Dec. 7; Sp. p. 1076; Gaz. vol. 149; p. 174.
- Carlson, G. A., Laurium, Mich. Washing-machine. No. 943,177; Dec. 14; Sp. p. 2462; Gaz. vol. 149; p. 419.
- Carlson, I. O., Chicago, Ill. Food-vendering machine. No. 941,495; Nov. 30; Sp. p. 6727; Gaz. vol. 148; p. 1140.
- Carlson, J. A., Denver, Colo. Carburetor. No. 926,848; July 6; Sp. p. 303; Gaz. vol. 144; p. 49.

*Alphabetical list of patentees—Continued.*

- Carlson, J. W., assignor of one-half to R. Manary, Clifton, Oreg. Jack. No. 909,364; Jan. 12; Sp. p. 1890; Gaz. vol. 138; p. 338.
- Carlson, M., Diamond Bluff, Wis., Band-cutter and feeder. No. 922,668; May 25; Sp. p. 5294; Gaz. vol. 142; p. 936.
- Carlson, O. A. (See Dahlberg, F. J., assignor.)
- Carlson, P., Tolley, N. D. Nail-holding attachment for hammers. No. 937,987; Oct. 26; Sp. p. 4978; Gaz. vol. 147; p. 858.
- Carlson, P. G. (See Miller, Morlock, and Carlson.)
- Carlsson, K. O. A., Newark, N. J. Cream-separator. No. 937,986; Oct. 26; Sp. p. 4975; Gaz. vol. 147; p. 837.
- Carlstedt, J. A. (See Spencer and Carlstedt.)
- Carlstrom, J. A., assignor to John J. Mitchell Co., New York, N. Y. Tailor's square. No. 918,279; Apr. 13; Sp. p. 2685; Gaz. vol. 141; p. 475.
- Carlton, A. (See Millis and Carlton.)
- Carlton, F. A., Syracuse, N. Y. Belt-shifter. No. 927,222; July 6; Sp. p. 1074; Gaz. vol. 144; p. 174.
- Carlton, I. L., Hartsville, Ga. Combined line and trace holder. No. 911,938; Feb. 9; Sp. p. 1786; Gaz. vol. 139; p. 328.
- Carlton, W. F., Advance, Mo. Pneumatic grain-conveyer. No. 908,445; Jan. 5; Sp. p. 23; Gaz. vol. 138; p. 6.
- Carlucci, M., Newark, N. J. Receptacle for garbage. No. 936,702; Oct. 12; Sp. p. 2321; Gaz. vol. 147; p. 385.
- Carman, C. W., Mount Hope, assignor of one-half to W. E. Deegans, Glen Jean, W. Va. Mine-door. No. 931,035; Aug. 17; Sp. p. 2953; Gaz. vol. 145; p. 523.
- Carman, F. V., Oakland, Cal. Spike-hole-plug machine. No. 908,950; Jan. 5; Sp. p. 1054; Gaz. vol. 138; p. 170.
- Carman, G. C., St. John, New Brunswick, Canada. Shipping-tag. No. 911,206; Feb. 2; Sp. p. 361; Gaz. vol. 139; p. 63.
- Carmichael, A. W., Savannah, Ga. Manufacture of rosin soap and the like. No. 908,951; Jan. 5; Sp. p. 1056; Gaz. vol. 138; p. 170.
- Carmichael, A. W., Savannah, Ga. Apparatus for the manufacture of rosin soap and the like. No. 909,058; Jan. 5; Sp. p. 1273; Gaz. vol. 138; p. 205.
- Carmichael, B. B. (See Carmichael, J. G. and B. B.)
- Carmichael, D. B. (See Boyse, C. W., assignor.)
- Carmichael, E. T. (See Bowers, J. W., assignor.)
- Carmichael, J. G. and B. B., assignors of one-half to J. N. Shaw, Seattle, Wash. Butter-cutter. No. 915,935; Mar. 23; Sp. p. 4677; Gaz. vol. 140; p. 830.
- Carmody, J. J., Mount Vernon, N. Y. Button. No. 918,960; Apr. 20; Sp. p. 4180; Gaz. vol. 141; p. 730.
- Carmody, P. E. (See Beardsley and Carmody.)
- Carmody, T. E., *et al.* (See Huntley, S. A., assignor.)
- Carmory, W. E., Belvidere, Ill. Sectional derrick. No. 926,925; July 6; Sp. p. 459; Gaz. vol. 144; p. 74.
- Carnahan, C. T., and J. Murphy, assignors to C. T. Carnahan Manufacturing Co., Denver, Colo. Water attachment for pneumatic hammers. No. 940,510; Nov. 16; Sp. p. 4595; Gaz. vol. 148; p. 766.
- Carnahan, J. E., assignor to Carnahan Tin Plate & Sheet Company, Canton, Ohio. Nozzle for bluing steel sheets. No. 927,449; July 6; Sp. p. 1507; Gaz. vol. 144; p. 250.
- Carnahan, L. L., Mount Jewett, Pa. Gas-burner valve. No. 928,497; July 20; Sp. p. 3729; Gaz. vol. 144; p. 656.
- Carnahan, R. B., Jr., Middletown, Ohio, assignor to International Metal Products Company, Newark, N. J. Iron manufacture. No. 940,784; Nov. 23; Sp. p. 5201; Gaz. vol. 148; p. 883.
- Carnahan, R. B., Jr., Middletown, Ohio, assignor to International Metal Products Company, Newark, N. J. Ingot. No. 940,785; Nov. 23; Sp. p. 5202; Gaz. vol. 148; p. 883.
- Carnahan Tin Plate & Sheet Company. (See Carnahan, J. E., assignor.)
- Carnefix, J. P., Richmond, Va. Folding coop or crate. No. 934,282; Sept. 14; Sp. p. 2654; Gaz. vol. 146; p. 441.
- Carnegie Steel Company. (See Wales, S. S., assignor.)
- Carnes, E. W. (See Rudolph and Carnes.)
- Carnes, E. W., Chicago, Ill., assignor to American Can Company, New York, N. Y. Sheet-metal disinfectant cabinet or holder. No. 910,270; Jan. 19; Sp. p. 3764; Gaz. vol. 138; p. 678.
- Carnes, E. W., assignor to American Can Company, Chicago, Ill. Display-receptacle. No. 921,673; May 18; Sp. p. 3273; Gaz. vol. 142; p. 582.
- Carney, E., Glendale, and E. Stine, Richmond Hill, assignors to Eastern Salesbook Company, Glendale, N. Y. Manifolding-pad. No. 937,420; Oct. 19; Sp. p. 3818; Gaz. vol. 147; p. 650.
- Carney, E. F., Montchanin, Del. Puzzle. No. 920,727; May 4; Sp. p. 1299; Gaz. vol. 142; p. 209.
- Carney, F. D., and T. T. McEntee, Steelton, assignors, by mesne assignments, to Keystone Furnace Construction Company, Pittsburg, Pa. Air and gas port for open-hearth furnaces. No. 919,125; Apr. 20; Sp. p. 4476; Gaz. vol. 141; p. 781.
- Carney, J. D., assignor to Automatic Cashier Machine Company, Philadelphia, Pa. Automatic coin-changing machine. No. 929,550; July 27; Sp. p. 5873; Gaz. vol. 144; p. 1032.
- Carney, M., Philadelphia, Pa. Attachment for stoves. No. 944,317; Dec. 28; Sp. p. 4897; Gaz. vol. 149; p. 863.
- Carney, W. J., Norwich, Conn. Machine for polishing knife-handles. No. 909,544; Jan. 12; Sp. p. 2244; Gaz. vol. 138; p. 398.
- Carnt, E. C. (See Parsons and Carnt.)
- Carnyn, J. M. (See Winterknight, H. A., assignor.)
- Caro, L. (See Heim, M., assignor.)
- Caron, O., Montgomery, Minn. Cultivator. No. 909,149; Jan. 12; Sp. p. 1490; Gaz. vol. 138; p. 271.
- Caroselli, A. (See Noerdlinger, Caroselli, and Berg.)
- Carothers, C. A., Cleveland, Ohio, assignor to Standard Sanitary Manufacturing Company. Drinking-fountain. No. 920,266; May 4; Sp. p. 388; Gaz. vol. 142; p. 58.
- Carpenter, A., Findlay, Ohio. Locking mechanism for emergency exit-doors. No. 926,545; June 29; Sp. p. 7174; Gaz. vol. 143; p. 1267.
- Carpenter, A., and C. C. Kisselle, Findlay, Ohio. Vehicle-spring. No. 912,988; Feb. 23; Sp. p. 4067; Gaz. vol. 139; p. 738.
- Carpenter, A., and C. C. Kisselle, Findlay, Ohio. Cushioning device for vehicles. No. 912,989; Feb. 23; Sp. p. 4068; Gaz. vol. 139; p. 738.
- Carpenter, B. F., Roselle Park, N. J. Cooking-cabinet and heat-conservator. No. 938,121; Oct. 26; Sp. p. 5274; Gaz. vol. 147; p. 903.
- Carpenter, C. E., New York, N. Y., assignor to Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controlling device. No. 910,042; Jan. 19; Sp. p. 3243; Gaz. vol. 138; p. 598.
- Carpenter, C. H. (See Currew and Carpenter.)
- Carpenter, C. U., New York, N. Y. Electric protection system. No. 927,111; July 6; Sp. p. 866; Gaz. vol. 144; p. 139.
- Carpenter, D. A., New York, N. Y. Button-setting machine. No. 908,952; Jan. 5; Sp. p. 1057; Gaz. vol. 138; p. 171.
- Carpenter, D. A., Mansfield, Ohio. Lavatory-fixture. No. 937,509; Oct. 19; Sp. p. 4009; Gaz. vol. 147; p. 681.
- Carpenter, D. S. (See Taylor and Carpenter.)
- Carpenter, E., Newton, Mass., assignor to Automatic Refrigerating Company, Hartford, Conn. Refrigerating-counter. No. 938,554; Nov. 2; Sp. p. 259; Gaz. vol. 148; p. 38.
- Carpenter, E. A., *et al.* (See Woods, J., assignor.)
- Carpenter, F. R., Denver, Colo. Making ferro-nickel and nickel-steel. No. 922,388; May 18; Sp. p. 4704; Gaz. vol. 142; p. 815.
- Carpenter, F. R., Denver, Colo., assignor, by mesne assignments, to The American Iron and Steel Alloys Company. Obtaining sulfur, &c., from furnace-gases. No. 925,751; June 2; Sp. p. 5561; Gaz. vol. 143; p. 970.
- Carpenter, G. W., J. Rasmussen, and F. B. McCrosky, Ontario, Cal. Electric heater. No. 916,994; Apr. 6; Sp. p. 56; Gaz. vol. 141; p. 14.
- Carpenter, J., Oak Lake, Manitoba, Canada. Wooden post. No. 910,356; Jan. 19; Sp. p. 3934; Gaz. vol. 138; p. 707.
- Carpenter, J., Oak Lake, Manitoba, Canada. Apparatus for pickling grain. No. 917,712; Apr. 6; Sp. p. 1459; Gaz. vol. 141; p. 256.
- Carpenter, J. B. (See Carpenter, W. A., assignor.)
- Carpenter, J. H., Reading, assignor of one-third to J. R. Yost, Wyomissing, and one-third to R. R. Yost, Sinking Spring, Pa. Reinforced-concrete post. No. 930,040; Aug. 3; Sp. p. 877; Gaz. vol. 145; p. 142.
- Carpenter, J. R., Hancock, assignor of one-half to T. A. Steller, Houghton, Mich. Electric thermostat. No. 935,460; Sept. 28; Sp. p. 4989; Gaz. vol. 146; p. 881.
- Carpenter, R. (See Barton, E. H. R., assignor.)
- Carpenter, S. H., assignor to F. M. Bell, Morrilton, Ark. Plow-sweep. No. 938,639; Nov. 2; Sp. p. 432; Gaz. vol. 148; p. 66.
- Carpenter Steel Company. (See Poole, E. J., assignor.)
- Carpenter, T. E., Providence, R. I. Nose-grip for eyeglasses. No. 922,853; May 25; Sp. p. 5679; Gaz. vol. 142; p. 995.
- Carpenter, T. E., Providence, R. I. Eyeglass-mounting. No. 927,637; July 13; Sp. p. 1941; Gaz. vol. 144; p. 340.
- Carpenter, W. A., assignor of one-fourth to J. B. Carpenter, Charlotte, N. C. Mail-bag. No. 928,106; July 13; Sp. p. 2897; Gaz. vol. 144; p. 494.
- Carpenter, W. D., and J. A. Humphrey, Lima, Ohio. Railway-tie. No. 934,040; Sept. 14; Sp. p. 2174; Gaz. vol. 146; p. 359.
- Carpenter, W. H., Bristol, Conn. Storm-garment for letter-carriers. No. 913,694; Mar. 2; Sp. p. 28; Gaz. vol. 140; p. 7.
- Carpenter, W. H., Bristol, Conn., assignor of one-half to A. L. Haasis, Brooklyn, N. Y. Treating and utilizing sillage from molten metals. No. 913,874; Mar. 2; Sp. p. 436; Gaz. vol. 140; p. 71.
- Carpenter, W. H., Bristol, Conn., assignor of one-half to A. L. Haasis, Brooklyn, N. Y. Cover for tanks used in skimming sillage from crucibles into water. No. 938,555; Nov. 2; Sp. p. 261; Gaz. vol. 148; p. 38.
- Carpenter, W. J., and T. F. McDermott, Providence, R. I. Incandescent electric light. No. 919,821; Apr. 27; Sp. p. 6155; Gaz. vol. 141; p. 1050.



*Alphabetical list of patentees—Continued.*

- Carpenter, W. W., Tampa, Fla. Framework for the construction of concrete buildings. No. 912,070; Feb. 9; Sp. p. 2154; Gaz. vol. 139; p. 372.
- Carr, C. W., Jr. (See Meeker and Carr.)
- Carr, E. M., Newcastle, Ind. Electric switch. No. 913,809; Mar. 2; Sp. p. 275; Gaz. vol. 140; p. 47.
- Carr, F. A. (See Stewart and Carr.)
- Carr, F. J. (See Martin, W. J., assignor.)
- Carr, F. S., Brookline, assignor to Carr Fastener Company, Boston, Mass. Fastening device. No. 916,995; Apr. 6; Sp. p. 58; Gaz. vol. 141; p. 14.
- Carr, F. S., Brookline, assignor to Carr Fastener Company, Boston, Mass. Fastening device. No. 942,542; Dec. 7; Sp. p. 1078; Gaz. vol. 149; p. 175.
- Carr, F. S., Brookline, assignor to Carr Fastener Company, Boston, Mass. Carriage-curtain fastener. No. 942,612; Dec. 7; Sp. p. 1211; Gaz. vol. 149; p. 198.
- Carr Fastener Company. (See Carr, F. S., assignor.)
- Carr, J., Chicago, Ill. Form for concrete construction. No. 925,080; June 15; Sp. p. 4238; Gaz. vol. 143; p. 722.
- Carr, J. and W., Syracuse, N. Y., assignors to Henry G. Thompson & Son Company, New Haven, Conn. Lathe-tool holder. No. 939,976; Nov. 16; Sp. p. 3360; Gaz. vol. 148; p. 581.
- Carr, J. W., Braddock, Pa. Safety-envelop. No. 927,112; July 6; Sp. p. 869; Gaz. vol. 144; p. 139.
- Carr, L., Oakland, Cal. Cooking utensil. No. 940,672; Nov. 23; Sp. p. 4938; Gaz. vol. 148; p. 844.
- Carr, S. (See Baham and Carr.)
- Carr, S., Tyrone, Ark. Hay-press. No. 927,829; July 13; Sp. p. 2339; Gaz. vol. 144; p. 403.
- Carr, U. U., Pittsburg, Pa. Automatic mine-car stop. No. 917,540; Apr. 6; Sp. p. 1138; Gaz. vol. 141; p. 199.
- Carr, W. (See Carr, J. and W.)
- Carr, W. C., Buffalo, N. Y. Transportation system. No. 915,071; Mar. 16; Sp. p. 2899; Gaz. vol. 140; p. 517.
- Carr, W. C., Buffalo, N. Y. Transportation system. No. 916,531; Mar. 30; Sp. p. 5860; Gaz. vol. 140; p. 1051.
- Carr, W. C., Buffalo, N. Y. Car for transporting ore or other material. No. 941,405; Nov. 30; Sp. p. 6548; Gaz. vol. 148; p. 1110.
- Carr, W. C., Buffalo, N. Y. Transportation system. No. 942,437; Dec. 7; Sp. p. 838; Gaz. vol. 149; p. 137.
- Carr, W. C., Buffalo, N. Y. Transportation system. No. 943,810; Dec. 21; Sp. p. 3827; Gaz. vol. 149; p. 665.
- Carr, W. H., Minneapolis, Minn. Combination-tool. No. 935,459; Sept. 28; Sp. p. 4987; Gaz. vol. 146; p. 881.
- Carr, W. M., New York, N. Y., assignor of one-half to C. H. Speer, Chester, Pa. Melting apparatus. No. 929,831; Aug. 3; Sp. p. 427; Gaz. vol. 145; p. 71.
- Carr, W. M., New York, N. Y., and C. H. Speer, Chester, Pa. Melting-furnace and using the same. No. 936,758; Oct. 12; Sp. p. 2422; Gaz. vol. 147; p. 404.
- Carr, W. M., New York, N. Y., and C. H. Speer, Chester, Pa. Melting apparatus. No. 936,759; Oct. 12; Sp. p. 2427; Gaz. vol. 147; p. 404.
- Carraher, F. B., Pittsburg, Pa. Ingot-turning device. No. 944,318; Dec. 28; Sp. p. 4898; Gaz. vol. 149; p. 864.
- Carrell, C., Newman, Ill. Rail-tie. No. 941,307; Nov. 23; Sp. p. 6310; Gaz. vol. 148; p. 1055.
- Carrère, J. M., assignor to Blanc Stainless Cement Company, Allentown, Pa. Making Portland cement. No. 932,374; Aug. 24; Sp. p. 5791; Gaz. vol. 145; p. 989.
- Carrick, J. T., assignor of one-half to B. S. Pattison, Johannesburg, Transvaal. Pyritic smelting. No. 912,540; Feb. 16; Sp. p. 3143; Gaz. vol. 139; p. 564.
- Carrick, J. T., assignor of one-half to B. S. Pattison, Johannesburg, Transvaal. Agitating and separating mixtures of solid matter and liquids. No. 912,541; Feb. 16; Sp. p. 3145; Gaz. vol. 139; p. 564.
- Carrick, J. T., assignor of one-half to B. S. Pattison, Johannesburg, Transvaal. Smelting ores. No. 913,655; Feb. 23; Sp. p. 5463; Gaz. vol. 139; p. 962.
- Carrick, J. T., assignor of one-half to B. S. Pattison, Johannesburg, Transvaal. Treatment of copper or copper-nickel mattes. No. 939,947; Nov. 9; Sp. p. 3291; Gaz. vol. 148; p. 543.
- Carrick, R. F. (See Phillips and Carrick.)
- Carrick, T., San Francisco, Cal. Lubricating-cup for steam-chests and the like. No. 921,201; May 11; Sp. p. 2259; Gaz. vol. 142; p. 397.
- Carrico, C. I., and B. Hawkins, Owensboro, Ky., assignors of three-fifths to said Carrico and two-fifths to said Hawkins. Liquid-volume recorder. No. 941,007; Nov. 23; Sp. p. 5660; Gaz. vol. 148; p. 956.
- Carrico, C. I., and B. Hawkins, Owensboro, Ky., assignors of three-fifths to said Carrico and two-fifths to said Hawkins. Liquid-volume recorder. No. 941,008; Nov. 23; Sp. p. 5663; Gaz. vol. 148; p. 956.
- Carrier, C. F., Jr., Elmira, N. Y. Apparatus for decomposing alkali-metal amalgams. No. 908,545; Jan. 5; Sp. p. 237; Gaz. vol. 138; p. 40.
- Carrier, C. F., Jr., Elmira, N. Y. Circulating-pump for electrolytic cells. No. 908,546; Jan. 5; Sp. p. 239; Gaz. vol. 138; p. 40.
- Carrier, C. F., Jr., Elmira, N. Y. Manufacturing chemical compounds. No. 910,498; Jan. 26; Sp. p. 4239; Gaz. vol. 138; p. 779.
- Carrier, C. O., Cleveland, Ohio. Folding trammel. No. 916,912; Mar. 30; Sp. p. 6572; Gaz. vol. 140; p. 1171.
- Carrier, W. H., and E. W. Comfort, assignors to Buffalo Forge Company, Buffalo, N. Y. Thermostatic regulating device. No. 929,655; Aug. 3; Sp. p. 17; Gaz. vol. 145; p. 5.
- Carrigan, H. J., assignor to W. H. Mount, Buffalo, N. Y. Gravity-level. No. 909,060; Jan. 5; Sp. p. 1277; Gaz. vol. 138; p. 205.
- Carrigan, H. J., and A. J. Sangster, Buffalo, N. Y., assignors to Auto Safety Specialty Company. Electric switch. No. 943,215; Dec. 14; Sp. p. 2544; Gaz. vol. 149; p. 431.
- Carrington, M. L., Bristol, Conn. Chair-strap for holding babies. No. 928,305; July 20; Sp. p. 3372; Gaz. vol. 144; p. 593.
- Carroll, A. L., St. Louis, Mo. Car-washer brush. No. 912,811; Feb. 16; Sp. p. 3738; Gaz. vol. 139; p. 658.
- Carroll, F. M., New Haven, Conn. Reducing-valve. No. 944,664; Dec. 28; Sp. p. 5672; Gaz. vol. 149; p. 984.
- Carroll, G. P., Bridgeport, Conn. Valve and connection. No. 924,964; June 15; Sp. p. 4004; Gaz. vol. 143; p. 684.
- Carroll, G. P., Bridgeport, Conn. Electric expansion-valve. No. 925,081; June 15; Sp. p. 4240; Gaz. vol. 143; p. 722.
- Carroll, J. (See Kendrick and Carroll.)
- Carroll, J. R., West Hoboken, N. J. Measure. No. 926,688; June 29; Sp. p. 7460; Gaz. vol. 143; p. 1315.
- Carroll, J. T., Billings, Mont. Beet-harvester. No. 922,084; May 18; Sp. p. 4101; Gaz. vol. 142; p. 716.
- Carroll, L. D., assignor to Humphreys and Glasgow, Westminster, England. Water-gas apparatus. No. 922,389; May 18; Sp. p. 4705; Gaz. vol. 142; p. 815.
- Carroll, R. W., New Brighton, N. Y. Box. No. 940,922; Nov. 23; Sp. p. 5475; Gaz. vol. 148; p. 928.
- Carroll, S. C., Dallas, Tex. Car-ventilator. No. 914,924; Mar. 9; Sp. p. 2645; Gaz. vol. 140; p. 444.
- Carroll, S. C., Dallas, Tex. Cleaning and polishing apparatus. No. 919,417; Apr. 27; Sp. p. 5275; Gaz. vol. 141; p. 943.
- Carroll, S. H. (See Keenan and Tobin, assignors.)
- Carroll, T. (See Allen, G., assignor.)
- Carroll, T., assignor, by mesne assignments, to National Cash Register Company, Dayton, Ohio. Keyboard mechanism for registering-machines. No. 909,866; Jan. 19; Sp. p. 2886; Gaz. vol. 138; p. 538.
- Carroll, T., assignor, by mesne assignments, to National Cash Register Company, Dayton, Ohio. Keyboard mechanism for registering-machines. No. 909,867; Jan. 19; Sp. p. 2891; Gaz. vol. 138; p. 538.
- Carroll, T., assignor, by mesne assignments, to National Cash Register Company, Dayton, Ohio. Cash-register. No. 934,994; Sept. 28; Sp. p. 4062; Gaz. vol. 146; p. 730.
- Carroll, T. J., et al. (See Richardson, C. H., assignor.)
- Carroll, V. D., San Francisco, Cal. Street-sweeping machine. No. 911,702; Feb. 9; Sp. p. 1353; Gaz. vol. 139; p. 252.
- Carroll, W. H., Jersey City, N. J. Shoe draw-strap and horn. No. 913,695; Mar. 2; Sp. p. 29; Gaz. vol. 140; p. 8.
- Carroll, W. H., Jersey City, N. J. Transportation-check holder. No. 927,710; July 13; Sp. p. 2097; Gaz. vol. 144; p. 364.
- Carroll, W. N., Minneapolis, Minn. Railway switch and signal. No. 920,267; May 4; Sp. p. 389; Gaz. vol. 142; p. 58.
- Carrom-Archarena Company. (See Haskell, H. L., assignor.)
- Carson, C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch. No. 936,601; Oct. 12; Sp. p. 2111; Gaz. vol. 147; p. 350.
- Carson, C. T., Bremerton, Wash. Pencil-holder. No. 918,125; Apr. 13; Sp. p. 2370; Gaz. vol. 141; p. 425.
- Carson, D. A., Wilkinsburg, Pa. Attachment for beds. No. 926,849; July 6; Sp. p. 304; Gaz. vol. 144; p. 49.
- Carson, R. F., et al. (See Dotson, C. A., assignor.)
- Carson, W. E., Riverton, Va. Plastic material and making the same. No. 915,060; Mar. 9; Sp. p. 2873; Gaz. vol. 140; p. 487.
- Carson, W. E., Riverton, Va. Cementitious composition and making the same. No. 939,977; Nov. 16; Sp. p. 3363; Gaz. vol. 148; p. 581.
- Carstens, C., Denver, Colo. Dish-washer. No. 922,455; May 25; Sp. p. 4847; Gaz. vol. 142; p. 865.
- Carstens, H. M., Chicago, Ill. Printer's galley. No. 920,430; May 4; Sp. p. 695; Gaz. vol. 142; p. 109.
- Carswell, E. R., Sr., Philadelphia, Pa. Bed and crib sheet. No. 924,733; June 15; Sp. p. 3523; Gaz. vol. 143; p. 605.
- Carter, A., Los Angeles, Cal., assignor to Storeheat Manufacturing Company, Phoenix, Ariz. Freezer. No. 933,230; Sept. 7; Sp. p. 452; Gaz. vol. 146; p. 70.
- Carter, A., Los Angeles, Cal., assignor to Storeheat Manufacturing Company, Phoenix, Ariz. Store-heat lunch-box. No. 934,041; Sept. 14; Sp. p. 2175; Gaz. vol. 146; p. 360.
- Carter, C. C. (See Dressmann, R., assignor.)

*Alphabetical list of patentees—Continued.*

- Carter, C. E. (See Eberman, I. E., assignor.)  
 Carter, C. W., Minneapolis, Minn. Loading molds with molding material. No. 921,082; May 11; Sp. p. 2019; Gaz. vol. 142; p. 355.  
 Carter-Crume Co. (See Bengough, J., assignor.)  
 Carter-Crume Co. (See Klein, E., assignor.)  
 Carter-Crume Co. (See Pringle, W. A., assignor.)  
 Carter Crume Company. (See Bailey, W. T., assignor.)  
 Carter-Crume Company. (See Bottle, E. K., assignor.)  
 Carter, D., Toronto, Ontario, Canada. Stamp-affixing machine. No. 933,158; Sept. 7; Sp. p. 247; Gaz. vol. 146; p. 42.  
 Carter, E. (See Carter, F. and E.)  
 Carter, E. G., Omaha, Nebr. Hay-stacker. No. 938,461; Nov. 2; Sp. p. 18; Gaz. vol. 148; p. 5.  
 Carter, E. J., Fremont, Ohio. Manifold account-book. No. 915,411; Mar. 16; Sp. p. 3616; Gaz. vol. 140; p. 630.  
 Carter, E. J., and L. J. Houle, East Concord, N. H. Removable cap for pipes. No. 943,338; Dec. 14; Sp. p. 2813; Gaz. vol. 149; p. 473.  
 Carter, F. and E., assignors of one-third to E. C. Blackstone, Stamford, England. Internal-combustion engine. No. 942,886; Dec. 14; Sp. p. 1816; Gaz. vol. 149; p. 320.  
 Carter, F. M., Oakland, Cal. Stirrup. No. 933,958; Sept. 14; Sp. p. 2027; Gaz. vol. 146; p. 334.  
 Carter, G. H., assignor of forty-five one-hundredths to J. T. Sherlock, New York, N. Y. Car-fender. No. 936,703; Oct. 12; Sp. p. 2322; Gaz. vol. 147; p. 385.  
 Carter, H. F. (See Grothe and Carter.)  
 Carter, H. L., Traverse City, Mich. Lawn-edger. No. 910,111; Jan. 19; Sp. p. 3373; Gaz. vol. 138; p. 620.  
 Carter, H. W., Providence, R. I. Water-heater. No. 921,359; May 11; Sp. p. 2613; Gaz. vol. 142; p. 450.  
 Carter Howe & Company. (See Farrow, H. L., assignor.)  
 Carter, J., Norwalk, Cal. Automobile steering device. No. 913,198; Feb. 23; Sp. p. 4488; Gaz. vol. 139; p. 808.  
 Carter, J. H., Chicago, Ill. Cell-carton. No. 927,488; July 13; Sp. p. 1609; Gaz. vol. 144; p. 289.  
 Carter, J. M., Memphis, Tenn. Retaining-valve for automatic air-brakes. No. 916,669; Mar. 30; Sp. p. 6118; Gaz. vol. 140; p. 1096.  
 Carter, J. O. (See Evans, W. P., assignor.)  
 Carter, J. R., Newton, Mass. Stay-strip. No. 910,271; Jan. 19; Sp. p. 3766; Gaz. vol. 138; p. 678.  
 Carter, J. W., Abilene, Tex. Electric-light hanger. No. 910,112; Jan. 19; Sp. p. 3375; Gaz. vol. 138; p. 620.  
 Carter, J. W., Turnersville, N. J. Automatic locking-receptacle. No. 912,071; Feb. 9; Sp. p. 2156; Gaz. vol. 139; p. 372.  
 Carter, J. W., Bath, Me. Pocket-protector. No. 933,288; Sept. 7; Sp. p. 587; Gaz. vol. 146; p. 90.  
 Carter, L. A., St. Louis, Mo. Chuck. No. 919,536; Apr. 27; Sp. p. 5546; Gaz. vol. 141; p. 953.  
 Carter, M. L., Glassport, Pa. Combination woodworking-plane. No. 943,178; Dec. 14; Sp. p. 2463; Gaz. vol. 149; p. 419.  
 Carter, O., *et al.* (See Gregory, G. L., assignor.)  
 Carter, R., Rush City, Minn. Game apparatus. No. 924,038; June 8; Sp. p. 2048; Gaz. vol. 143; p. 340.  
 Carter, R. A., Pittsburg, Pa. Bending-machine. No. 938,556; Nov. 2; Sp. p. 263; Gaz. vol. 148; p. 39.  
 Carter, S. L., Tonieville, Ky. Press. No. 938,462; Nov. 2; Sp. p. 20; Gaz. vol. 148; p. 5.  
 Carter, S. R., New York, N. Y. Lino-slug-trimming machine. No. 939,800; Nov. 9; Sp. p. 2988; Gaz. vol. 148; p. 492.  
 Carter, T. O. (See Connor, Carter, and Ray.)  
 Carter, V. E., Goshen, Ala. Boiler. No. 934,426; Sept. 21; Sp. p. 2943; Gaz. vol. 146; p. 513.  
 Carter, W. A., Good Ground, N. Y. Automatic match-box. No. 936,302; Oct. 12; Sp. p. 1437; Gaz. vol. 147; p. 250.  
 Carter, W. H., Marshall, Tex. Ice-chamber for refrigerators. No. 923,624; June 1; Sp. p. 1147; Gaz. vol. 143; p. 176.  
 Carter's Ink Company. (See Robbins, R. A., assignor.)  
 Carter's Ink Company. (See Schmitt, C. A., assignor.)  
 Cartin, F. P., *et al.* (See Cartin, J., assignor.)  
 Cartin, J., Ogdensburg, N. Y., assignor of one-tenth to J. W. Emond, one-tenth to W. Emond, one-tenth to J. Emond, one-tenth to W. P. Kaufmann, Cardinal, Canada, one-tenth to A. White, one-tenth to P. J. Cartin, Watertown, one-tenth to T. J. Hall, one-tenth to F. P. Cartin, and one-tenth to J. H. Cartin, Ogdensburg, N. Y. Apparatus for producing complete combustion. No. 917,996; Apr. 6; Sp. p. 60; Gaz. vol. 141; p. 15.  
 Cartin, J. H., *et al.* (See Cartin, J., assignor.)  
 Cartin, P. J., *et al.* (See Cartin, J., assignor.)  
 Cartledge, W. E., McDonalds Mills, Miss. Combined plow and harrow. No. 932,961; Aug. 31; Sp. p. 7014; Gaz. vol. 145; p. 1206.  
 Cartmill, J. C., Leadmine, Wis. Vat for cleaning hogs. No. 944,230; Dec. 21; Sp. p. 4698; Gaz. vol. 149; p. 805.  
 Cartwright, A. D., Toledo, Ohio. Horseshoe. No. 937,568; Oct. 19; Sp. p. 4122; Gaz. vol. 147; p. 701.  
 Cartwright, C. A., assignor of one-half to J. E. Caps, Chicago, Ill. Water-heating system. No. 918,961; Apr. 20; Sp. p. 4180; Gaz. vol. 141; p. 730.  
 Cartwright, D. J., Boston, Mass. Carbureter for explosive-engines. No. 916,103; Mar. 23; Sp. p. 4996; Gaz. vol. 140; p. 885.  
 Cartwright, D. J., Dorchester, Mass. Safety percussion-fuse for projectiles. No. 935,188; Sept. 28; Sp. p. 4450; Gaz. vol. 146; p. 793.  
 Cartwright, E. O., Springfield, assignor of one-half to L. Fisher, West Milton, Ohio. Printing-press. No. 926,850; July 6; Sp. p. 306; Gaz. vol. 144; p. 50.  
 Cartwright, E. O., Springfield, assignor of one-half to L. Fisher, West Milton, Ohio. Printing-press. No. 926,851; July 6; Sp. p. 312; Gaz. vol. 144; p. 850.  
 Cartwright, W. J., New York, N. Y. Elastic-fluid turbine. No. 933,693; Sept. 7; Sp. p. 1493; Gaz. vol. 146; p. 225.  
 Carty, A. B. and R. F., Washington, D. C. Puzzle. No. 925,752; June 22; Sp. p. 5563; Gaz. vol. 143; p. 970.  
 Carty, R. F. (See Carty, A. B. and R. F.)  
 Carver, J. M., Grand Rapids, Mich. Mail-bag catcher. No. 917,922; Apr. 13; Sp. p. 1945; Gaz. vol. 141; p. 352.  
 Carver, T. A. B., assignor to Textile Appliances Limited, Glasgow, Scotland. Stopping mechanism for looms. No. 911,378; Feb. 2; Sp. p. 693; Gaz. vol. 139; p. 119.  
 Cary, B. T. (See Ellis, T. H., assignor.)  
 Cary, H. B., Los Angeles, Cal. Fruit-sizer. No. 931,993; Aug. 24; Sp. p. 5033; Gaz. vol. 145; p. 862.  
 Cary, L. C., Los Angeles, Cal., assignor to L. C. C. Automatic Couplers Company. Automatic train-pipe coupling. No. 930,041; Aug. 3; Sp. p. 878; Gaz. vol. 145; p. 142.  
 Caryl, D., Wiscovy, N. Y. Rail-splice. No. 936,217; Oct. 5; Sp. p. 1279; Gaz. vol. 147; p. 195.  
 Casaccia, J., assignor to M. M. Fennell, San Francisco, Cal. Non-refillable bottle. No. 919,282; Apr. 20; Sp. p. 4969; Gaz. vol. 141; p. 833.  
 Casaday, W. L., South Bend, Ind. Weedless or self-clearing propeller. No. 911,939; Feb. 9; Sp. p. 1787; Gaz. vol. 139; p. 329.  
 Casale, A., and W. Partello, New Haven, Conn. Railway-switch. No. 919,692; Apr. 27; Sp. p. 5870; Gaz. vol. 141; p. 1008.  
 Casale, J., assignor to Casale Pocket Umbrella Company, New York, N. Y. Folding umbrella. No. 941,615; Nov. 30; Sp. p. 6967; Gaz. vol. 148; p. 1178.  
 Casale Pocket Umbrella Company. (See Casale, J., assignor.)  
 Cascade Gas & Electric Fixture Co. (See Walin, A. G., assignor.)  
 Cascaden, T., Jr. (See Buswell, E., assignor.)  
 Cascaden, T., Jr. (See Buswell and Cascaden.)  
 Case, A. B., Springfield, Mass. Cutter for lawn-mowers. No. 924,318; June 8; Sp. p. 2672; Gaz. vol. 143; p. 435.  
 Case, A. B., Springfield, Mass. Lawn-mower. No. 940,854; Nov. 23; Sp. p. 5344; Gaz. vol. 148; p. 906.  
 Case, C. A., assignor to Case Tunnel & Engineering Company, New York, N. Y. Tramway loading device. No. 910,499; Jan. 26; Sp. p. 4241; Gaz. vol. 138; p. 779.  
 Case, C. A., assignor to Case Tunnel & Engineering Company, New York, N. Y. Tunneling-machine. No. 910,500; Jan. 26; Sp. p. 4244; Gaz. vol. 138; p. 780.  
 Case, C. A., assignor to Case Tunnel & Engineering Company, New York, N. Y. Rotary tunneling-machine. No. 914,636; Mar. 9; Sp. p. 2054; Gaz. vol. 140; p. 350.  
 Case, C. A., assignor to Case Tunnel & Engineering Company, New York, N. Y. Adjustable gripping-link for vehicles. No. 935,586; Sept. 28; Sp. p. 5270; Gaz. vol. 146; p. 924.  
 Case, C. S., Chicago, Ill. Tooth-regulating device. No. 934,958; Sept. 21; Sp. p. 3986; Gaz. vol. 146; p. 692.  
 Case, E., New York, N. Y. Bodkin. No. 935,638; Oct. 5; Sp. p. 22; Gaz. vol. 147; p. 5.  
 Case, F. E., assignor to Harvard Company, Canton, Ohio. Dental chair. No. 910,357; Jan. 19; Sp. p. 3935; Gaz. vol. 138; p. 708.  
 Case, F. E., assignor to Harvard Company, Canton, Ohio. Electric controller. No. 915,016; Mar. 9; Sp. p. 2790; Gaz. vol. 140; p. 472.  
 Case, F. E., Schenectady, N. Y., assignor to General Electric Company. Induction-motor control. No. 919,537; Apr. 27; Sp. p. 5548; Gaz. vol. 141; p. 954.  
 Case, F. E., Schenectady, N. Y., assignor to General Electric Company. Battery-charging apparatus. No. 920,103; Apr. 27; Sp. p. 6749; Gaz. vol. 141; p. 1143.  
 Case, F. E., Schenectady, N. Y., assignor to General Electric Company. Motor-vehicle. No. 940,511; Nov. 16; Sp. p. 4597; Gaz. vol. 148; p. 767.  
 Case, H. T., Franklin, Pa. Combination fluid and vacuum check. No. 942,887; Dec. 14; Sp. p. 1819; Gaz. vol. 149; p. 321.



*Alphabetical list of patentees—Continued.*

- Case, H. W., Clinton Corners, N. Y. Sifter. No. 934,283; Sept. 14; Sp. p. 2655; Gaz. vol. 146; p. 441.
- Case, L. E. (See Case, S. D. and L. E.)
- Case, S. D. and L. E., New York, N. Y. Gravity sash-holder. No. 910,113; Jan. 19; Sp. p. 3377; Gaz. vol. 138; p. 621.
- Case Tunnel & Engineering Company. (See Case, C. A., assignor.)
- Caseln Company of America. (See Dunham, A. A., assignor.)
- Cassella, S. L., and P. M. Reynolds, San Francisco, Cal., assignors to National Power Company. Wave-motor. No. 917,411; Apr. 6; Sp. p. 912; Gaz. vol. 141; p. 158.
- Casey, A., assignor to Goulds Manufacturing Company, Seneca Falls, N. Y. Making hollow balls of cast metal. No. 935,741; Oct. 5; Sp. p. 248; Gaz. vol. 147; p. 40.
- Casey, A., assignor to Goulds Manufacturing Company, Seneca Falls, N. Y. Casting apparatus. No. 940,302; Nov. 16; Sp. p. 4125; Gaz. vol. 148; p. 696.
- Casey, E. J., Springfield, Mass. Quoin. No. 942,543; Dec. 7; Sp. p. 1079; Gaz. vol. 149; p. 175.
- Casey, F. A., Billerica, assignor of one-half to Ashton Valve Company, Boston, Mass. Safety-valve. No. 921,360; May 11; Sp. p. 2614; Gaz. vol. 142; p. 450.
- Casey-Hedges Company. (See Hedges, M. M., assignor.)
- Casey-Hedges Company. (See Stimmel, F. C., assignor.)
- Casey, J. P., *et al.* (See Hofmeister, R., assignor.)
- Casey, J. P., St. Louis, Mo. Emergency-stopper for automatic sprinklers. No. 917,923; Apr. 13; Sp. p. 1947; Gaz. vol. 141; p. 353.
- Casey, J. P., St. Louis, Mo. Automatic sprinkler system. No. 922,456; May 25; Sp. p. 4848; Gaz. vol. 142; p. 866.
- Casey, J. V., Brooklyn, N. Y. Advertising apparatus. No. 943,179; Dec. 14; Sp. p. 2465; Gaz. vol. 149; p. 419.
- Casey, W. J., Denver, Colo. Instantaneous hose-coupling. No. 935,587; Sept. 28; Sp. p. 5272; Gaz. vol. 146; p. 924.
- Casgrain, L. A., Winchester, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Pegging-machine. No. 924,965; June 15; Sp. p. 4008; Gaz. vol. 143; p. 684.
- Casgrain, L. A., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for driving fastenings. No. 932,535; Aug. 31; Sp. p. 6140; Gaz. vol. 145; p. 1066.
- Cash, A. W., Newark, N. J. Valve. No. 909,545; Jan. 12; Sp. p. 2246; Gaz. vol. 138; p. 399.
- Cash, I. L., Portland, Oreg. Incandescent-lamp socket and switch. No. 932,246; Aug. 24; Sp. p. 5561; Gaz. vol. 145; p. 947.
- Cashmore, C. E. (See Bjorn and Cashmore.)
- Caskey, S. S., Philadelphia, Pa., assignor to Caskey Valve Company, New York, N. Y. Hydraulic valve. No. 920,268; May 4; Sp. p. 391; Gaz. vol. 142; p. 59.
- Caskey, S. S., assignor to Caskey Valve Company, Philadelphia, Pa. Valve. No. 944,598; Dec. 28; Sp. p. 5550; Gaz. vol. 149; p. 962.
- Caskey Valve Company. (See Caskey, S. S., assignor.)
- Casler, B. G., Tonawanda, N. Y., assignor of one-half to F. W. Ritter, Jr., Washington, D. C. Mandrel for reeling ready-roofing fabrics. No. 925,425; June 15; Sp. p. 4874; Gaz. vol. 143; p. 834.
- Casmire, B. A., Martinsville, Ind. Ice-cream freezer. No. 930,530; Aug. 10; Sp. p. 1873; Gaz. vol. 145; p. 330.
- Casner, C. B., Kansas City, Mo. Station-indicator. No. 914,550; Mar. 9; Sp. p. 1886; Gaz. vol. 140; p. 322.
- Casner, C. H., Hepburnville, Pa. Road-scraper. No. 939,664; Nov. 9; Sp. p. 2700; Gaz. vol. 148; p. 445.
- Casner, C. H., Williamsport, Pa. Road-scraper. No. 939,665; Nov. 9; Sp. p. 2701; Gaz. vol. 148; p. 446.
- Caspian, P. G., Chicago, Ill. Starting device for internal-combustion engines. No. 942,957; Dec. 14; Sp. p. 1988; Gaz. vol. 149; p. 345.
- Cass, L. F., Weston, Ohio. Grain-drier. No. 923,137; June 1; Sp. p. 23; Gaz. vol. 143; p. 6.
- Cassel, E. L., assignor to Allis-Chalmers Company, Milwaukee, Wis. Hydraulic turbine. No. 921,950; May 18; Sp. p. 3836; Gaz. vol. 142; p. 671.
- Cassella Color Company. (See Haas, L., assignor.)
- Cassella Color Company. (See Kraus, E., assignor.)
- Cassella Color Company. (See Schüle, R., assignor.)
- Cassella Color Company. (See Winslow, H., assignor.)
- Cassidy, J. (See McNutt, J. H., assignor.)
- Cassidy, J. J., *et al.* (See Weiner, J., assignor.)
- Cassidy, J. P., New Haven, Conn. Sash-lock. No. 926,173; June 29; Sp. p. 6472; Gaz. vol. 143; p. 1146.
- Cassie, J., and J. D. Martin, Lawrence, Mass. Combined match-safe and cigar-cutter. No. 910,045; Jan. 19; Sp. p. 3245; Gaz. vol. 138; p. 598.
- Cassity, O. P. (See Morton, J. C., assignor.)
- Cassleman, C., assignor of one-third to C. E. Browne, Chicago, Ill. Swinging window. No. 943,061; Dec. 14; Sp. p. 2248; Gaz. vol. 149; p. 381.
- Cassleman, C., assignor of one-third to C. E. Browne, Chicago, Ill. Window-bead fastener. No. 943,062; Dec. 14; Sp. p. 2250; Gaz. vol. 149; p. 382.
- Casson, J. H., Detroit, Mich. Molder's tool. No. 909,150; Jan. 12; Sp. p. 1491; Gaz. vol. 138; p. 271.
- Cast Steel Tender and Engine Track Company. (See Howard, C. H., assignor.)
- Castagnos, J. B., Donaldsonville, La. Grapple. No. 915,017; Mar. 9; Sp. p. 2797; Gaz. vol. 140; p. 473.
- Castellani, J. D., Paris, France. Lasting device. No. 919,418; Apr. 27; Sp. p. 5277; Gaz. vol. 141; p. 913.
- Castilio, O. (See Benas, B., assignor.)
- Castillo y Romero, A. del, Cienfuegos, Cuba. Hopper-measuring machine. No. 932,754; Aug. 31; Sp. p. 6618; Gaz. vol. 145; p. 1140.
- Castle, J. R., Abingdon, Ill. Suspended dasher for churns, &c. No. 919,693; Apr. 27; Sp. p. 5871; Gaz. vol. 141; p. 1008.
- Castle, P. C. D., Bèbington, assignor to Gum Tragasol Supply Company, Limited, Hooton, England. Extraction of gum. No. 924,319; June 8; Sp. p. 2674; Gaz. vol. 143; p. 435.
- Castle, W. H., Geneva, Ohio. Railway-tie. No. 915,072; Mar. 16; Sp. p. 2902; Gaz. vol. 140; p. 518.
- Castonguay, L. J., assignor to Bryant Electric Company, Bridgeport, Conn. Multiple lamp-socket. No. 911,475; Feb. 2; Sp. p. 853; Gaz. vol. 139; p. 150.
- Castracane, L., New York, N. Y. Thread-cutting die. No. 934,139; Sept. 14; Sp. p. 2401; Gaz. vol. 146; p. 393.
- Caswell, A. E. (See Caswell, W. B., assignor.)
- Caswell, C. H. (See Caswell, R. A., C. H., and W.)
- Caswell, F. K., Los Angeles, Cal., assignor to Paul Dickinson (Incorporated), Chicago, Ill. Metal-working power-press. No. 937,226; Oct. 19; Sp. p. 3382; Gaz. vol. 147; p. 587.
- Caswell, R. A., C. H., and W., Cherokee, Iowa. Baling-machine. No. 932,755; Aug. 31; Sp. p. 6620; Gaz. vol. 145; p. 1140.
- Caswell, W. (See Caswell, R. A., C. H., and W.)
- Caswell, W. B., assignor of one-half to A. E. Caswell, Newport, R. I. Adjustable shade-hanger. No. 940,380; Nov. 16; Sp. p. 4320; Gaz. vol. 148; p. 723.
- Caswell, W. M., Warren, Pa. Metal conduit. No. 913,359; Feb. 23; Sp. p. 4814; Gaz. vol. 139; p. 863.
- Caswell, W. M., Warren, Pa. Trolley-wheel harp. No. 920,269; May 4; Sp. p. 393; Gaz. vol. 142; p. 59.
- Catani, R., Rome, Italy. Producing carbids. No. 918,419; Apr. 13; Sp. p. 2948; Gaz. vol. 141; p. 520.
- Cates, G. D. (See Raynor and Foster, assignors.)
- Cates, R. L., Kingman, Kans. Game apparatus. No. 933,289; Sept. 7; Sp. p. 588; Gaz. vol. 146; p. 90.
- Cates, R. S., Kingman, Kans. Means for expanding compressed air. No. 912,647; Feb. 16; Sp. p. 3349; Gaz. vol. 139; p. 601.
- Catherwood, T. (See Holland, S., assignor.)
- Catlett, C., Staunton, and B. F. Childress, Lynchburg, Va. Fractional-insurance policy. No. 918,280; Apr. 13; Sp. p. 2687; Gaz. vol. 141; p. 476.
- Catlin, A. D., Chattanooga, Tenn. Rotary valve. No. 918,004; Apr. 13; Sp. p. 2129; Gaz. vol. 141; p. 382.
- Catlin, C. P., Duluth, Minn. Knife-display rack. No. 926,852; July 6; Sp. p. 318; Gaz. vol. 144; p. 61.
- Catlin, F. M. (See Lappen, J. E., assignor.)
- Catlow, J. N. (See Armitage, P. G., assignor.)
- Catlow, J. N., *et al.*, trustees. (See Walker, R. L., assignor.)
- Caton, F. E., assignor to Caton's Foundry and Machine Company, San Jose, Cal. Fruit-slicing machine. No. 931,843; Aug. 24; Sp. p. 4696; Gaz. vol. 145; p. 813.
- Caton's Foundry and Machine Company. (See Caton, F. E., assignor.)
- Cator, L. (See Cator, R. G. and L.)
- Cator, R. G. and L., Palmyra, N. Y. Fifth-wheel. No. 909,755; Jan. 12; Sp. p. 2667; Gaz. vol. 138; p. 470.
- Catron, J. J., Bonham, Tex. Magazine-rifle. No. 920,912; May 11; Sp. p. 1675; Gaz. vol. 142; p. 298.
- Catron, I. C., Brimfield, Ill. Tie and means for fastening rails thereon. No. 942,438; Dec. 7; Sp. p. 841; Gaz. vol. 149; p. 138.
- Catucci, P. (See Meisselbach and Catucci.)
- Cathemont, A., Paris, France. Suction device for air, gas, or smoke pipes. No. 918,962; Apr. 20; Sp. p. 4182; Gaz. vol. 141; p. 731.
- Cauchois, F. A., New York, N. Y. Apparatus for preparing infusions. No. 941,009; Nov. 23; Sp. p. 5665; Gaz. vol. 148; p. 957.
- Caudie, T. W., Dayton, Tenn. Locking device for axle-nuts. No. 937,924; Oct. 26; Sp. p. 4848; Gaz. vol. 147; p. 837.

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- Cauffman, R. M., and W. Best, Centerville, Mich.; said Best assignor to said Cauffman. Bottle-closure. No. 938,971; Nov. 2; Sp. p. 1126; Gaz. vol. 148; p. 181.
- Caughy, E. G., Sewickley, Pa. Railroad journal-box. No. 913,360; Feb. 23; Sp. p. 4816; Gaz. vol. 139; p. 863.
- Caul, L., Cleveland, Ohio. Agitating device for mixing carbonic-acid gas and water. No. 944,717; Dec. 28; Sp. p. 5794; Gaz. vol. 149; p. 1001.
- Caulkings, F. (See Thomas, C. L., assignor.)
- Caulkins, F. L., and F. Wienand, Chicago, Ill. Folding organ-case. No. 910,501; Jan. 26; Sp. p. 4250; Gaz. vol. 138; p. 780.
- Caulkins, F. L., and F. Wienand, Chicago, Ill. Folding organ. No. 931,678; Aug. 17; Sp. p. 4205; Gaz. vol. 145; p. 736.
- Cavanagh, F. A. (See Davenport, I. L., assignor.)
- Cavanagh, M., New York, N. Y. Gage for skiving-machines. No. 920,823; May 4; Sp. p. 1480; Gaz. vol. 142; p. 239.
- Cave-Browne-Cave, H. W., London, England. Cover for pneumatic and like tires. No. 929,193; July 27; Sp. p. 5164; Gaz. vol. 144; p. 915.
- Cavell, G. W., Cleveland, Ohio. Rope-reel. No. 908,743; Jan. 5; Sp. p. 669; Gaz. vol. 138; p. 104.
- Caven, F. H., Philadelphia, Pa. Spanner-wrench. No. 922,258; May 18; Sp. p. 4461; Gaz. vol. 142; p. 774.
- Caven, T. M., assignor to I. C. Soule, Kansas City, Mo. Electrical cooking apparatus. No. 933,622; Sept. 7; Sp. p. 1351; Gaz. vol. 146; p. 201.
- Cavicchi, E., Quincy, Mass. Polishing-machine. No. 931,383; Aug. 17; Sp. p. 3733; Gaz. vol. 145; p. 644.
- Cavileer, W. N., assignor of one-half to F. Logue, San Francisco, Cal. Plumb-bob and chalk-line holder. No. 909,846; Jan. 12; Sp. p. 2834; Gaz. vol. 138; p. 499.
- Cawthon, A. K. (See Doyle, A. H., assignor.)
- Cay, R. (See Cross, J. I., assignor.)
- Caya, H. (See Leith, J., assignor.)
- Caygill, J., Ridgway, Pa. Furnace. No. 931,565; Aug. 17; Sp. p. 4071; Gaz. vol. 145; p. 701.
- Cayley, H. C., Riverside, Cal. Receiver for wireless signaling. No. 925,291; June 15; Sp. p. 4632; Gaz. vol. 143; p. 792.
- Caywood, A. D., Chicago, Ill. Fire door and wall. No. 918,824; Apr. 20; Sp. p. 3878; Gaz. vol. 141; p. 684.
- Caywood, F. E., Elyria, Ohio. Sign. No. 915,268; Mar. 16; Sp. p. 3338; Gaz. vol. 140; p. 552.
- Cazier, M. H., Chicago, Ill. Folding clothes-hanger. No. 932,756; Aug. 31; Sp. p. 6631; Gaz. vol. 145; p. 1141.
- Cazier, M. H., Chicago, Ill. Shoe-support. No. 935,461; Sept. 28; Sp. p. 4990; Gaz. vol. 146; p. 881.
- Cecil, R. E., Ambridge, assignor of one-half to P. W. Brown, Pittsburg, Pa. Mechanical toy. No. 933,623; Sept. 7; Sp. p. 1352; Gaz. vol. 146; p. 201.
- Cecil, R. E., Ambridge, and C. R. Wassell, Sewickley, Pa. Steam and vacuum pump. No. 943,911; Dec. 21; Sp. p. 4042; Gaz. vol. 149; p. 701.
- Cecil, R. E., Ambridge, and C. R. Wassell, Sewickley, Pa. Steam and vacuum pump. No. 943,912; Dec. 21; Sp. p. 4046; Gaz. vol. 149; p. 701.
- Cedergren, G. V., Denver, Colo. Gas-analyzing apparatus. No. 928,027; July 13; Sp. p. 2751; Gaz. vol. 144; p. 469.
- Cedergren, F., assignor to F. S. Betz, Hammond, Ind. Undulating-current apparatus. No. 913,104; Feb. 23; Sp. p. 4285; Gaz. vol. 139; p. 777.
- Cee-Bap Manufacturing Company. (See Proctor, B. A., assignor.)
- Ceeder, F. E. (See Doane and Ceeder.)
- Celfor Tool Company. (See Fredrickson, O., assignor.)
- Celfor Tool Company. (See Rich, G. R., assignor.)
- Cement Tile Machinery Company. (See Schenk and Stewart, assignors.)
- Cement Tile Machinery Company. (See Stewart, J. H., assignor.)
- Cement Tile Machinery Company. (See Stewart and Schenk, assignors.)
- Centerfreze Ice Process Company. (See Havenstrite, D. J., assignor.)
- Central Brass Manufacturing Company. (See Mortimer and Strauss, assignors.)
- Central Laboratory Supply Company. (See Harris, J., assignor.)
- Central Station Steam Company. (See Barnes, E. L., assignor.)
- Central Tool Company. (See Jaques, F. O., assignor.)
- Central Tool Company. (See Jaques, F. O., Jr., assignor.)
- Central Trust Company of New York, trustee. (See Price, E. F., assignor.)
- Century Brass Manufacturing Company. (See Milne, C. D., assignor.)
- Century Manufacturing Company. (See Sharp, H. J., assignor.)
- Century Telephone Construction Company. (See Sweet, B. W., assignor.)
- Ceramic Machinery Company. (See Goldsmith, F. E., assignor.)
- Ceramic Machinery Company. (See Schenck, M., assignor.)
- Cerf, G., New York, N. Y. Packing-box. No. 923,017; May 25; Sp. p. 6015; Gaz. vol. 142; p. 1048.
- Ceriat, E. (See De Marquis and Ceriat.)
- Cerruti, F. A., New York, N. Y. Means of cleaning sewers. No. 928,938; July 27; Sp. p. 4628; Gaz. vol. 144; p. 830.
- Chabassol, P. R., Gradatim, Pa. Track for bed-casters. No. 927,113; July 6; Sp. p. 871; Gaz. vol. 144; p. 139.
- Chace, V. C., New Bedford, Mass., assignor to Morse Twist Drill & Machine Co. High-speed attachment for milling-machines and the like. No. 916,269; Mar. 23; Sp. p. 5303; Gaz. vol. 140; p. 939.
- Chadbourne, C. D., and W. R. Simpson, Wyoming, Ill. Changeable sign for advertising purposes, &c. No. 941,695; Nov. 30; Sp. p. 7141; Gaz. vol. 148; p. 1205.
- Chaddock, C. E. and R. G., Canton, Ohio. Glove. No. 944,357; Dec. 28; Sp. p. 4987; Gaz. vol. 149; p. 878.
- Chaddock, R. G. (See Chaddock, C. E. and R. G.)
- Chadeloid Chemical Company. (See Ellis, C., assignor.)
- Chadwick Engineering Works. (See Chadwick, L. S., assignor.)
- Chadwick, F. C., Utica, assignor to Savage Arms Company, Frankfort, N. Y. Rebounding hammer for firearms. No. 923,113; May 25; Sp. p. 6222; Gaz. vol. 142; p. 1079.
- Chadwick, F. C., Utica, assignor to Savage Arms Company, Frankfort, N. Y. Hammer-indicator for firearms. No. 923,244; June 1; Sp. p. 259; Gaz. vol. 143; p. 43.
- Chadwick, J. T., Reynoldsville, Pa. Nut-lock. No. 916,997; Apr. 6; Sp. p. 68; Gaz. vol. 141; p. 16.
- Chadwick, L. S., Pottstown, Pa. Automobile-spring. No. 909,365; Jan. 12; Sp. p. 1891; Gaz. vol. 138; p. 338.
- Chadwick, L. S., Pottstown, Pa. Muffler cut-out mechanism. No. 922,563; May 25; Sp. p. 5083; Gaz. vol. 142; p. 901.
- Chadwick, L. S., Ridley Park, Pa. Lever mechanism. No. 920,022; Apr. 27; Sp. p. 6537; Gaz. vol. 141; p. 1115.
- Chadwick, L. S., assignor to Chadwick Engineering Works, Philadelphia, Pa. Chain-drive adjustment and casing for automobiles. No. 930,531; Aug. 10; Sp. p. 1875; Gaz. vol. 145; p. 331.
- Chaffee, F. F., New York, assignor to O. M. Edwards, Syracuse, N. Y. Trap-door for railway-cars and similar structures. No. 942,711; Dec. 7; Sp. p. 1400; Gaz. vol. 149; p. 230.
- Chatney, E., assignor to Florence Mfg. Co., Florence, Wis. Saw-set. No. 944,174; Dec. 21; Sp. p. 4600; Gaz. vol. 149; p. 789.
- Chalfant, G. E., Philadelphia, Pa. Device for unloading and delivering coal from vehicles. No. 922,390; May 18; Sp. p. 4707; Gaz. vol. 142; p. 815.
- Chalk, J. F., Mackay, Queensland, Australia. Eyelet for boots and shoes. No. 926,317; June 29; Sp. p. 6759; Gaz. vol. 143; p. 1192.
- Chalk, R. H., Sonora, Tex. Valve. No. 927,326; July 6; Sp. p. 1262; Gaz. vol. 144; p. 208.
- Challiss, P. G., Forest Hill, England. Detachable rim for vehicle-wheels. No. 943,811; Dec. 21; Sp. p. 3830; Gaz. vol. 149; p. 666.
- Chalmers-Detroit Motor Company. (See Coffin, H. E., assignor.)
- Chalmers, R. B., Springfield, Mo. Car-coupling. No. 933,959; Sept. 14; Sp. p. 2029; Gaz. vol. 146; p. 334.
- Chaloner, T. T., New York, N. Y. Antiskid attachment for vehicle-wheels. No. 944,772; Dec. 28; Sp. p. 5912; Gaz. vol. 149; p. 1019.
- Chamberlain, D. B. (See Quarles, T. M., assignor.)
- Chamberlain, G. W., Kansas City, Mo. Measuring apparatus. No. 922,085; May 18; Sp. p. 4106; Gaz. vol. 142; p. 717.
- Chamberlain, H. B., Wethersfield, Conn. Hoop. No. 910,114; Jan. 19; Sp. p. 3378; Gaz. vol. 138; p. 621.
- Chamberlain, J. W. (See Humason, G. A., assignor.)
- Chamberlain, R., East Liberty, Ohio. Check-row corn-planter. No. 928,358; July 20; Sp. p. 3468; Gaz. vol. 144; p. 612.
- Chamberlain, R. N., Depew, N. Y., assignor to Gould Storage Battery Company. Storage battery. No. 929,121; July 27; Sp. p. 5008; Gaz. vol. 144; p. 891.
- Chamberlain, R. N., Depew, assignor to Gould Storage Battery Company, New York, N. Y. Tool or machine for making storage-battery grids. No. 929,386; July 27; Sp. p. 5592; Gaz. vol. 144; p. 980.
- Chamberlain, R. N., Depew, assignor to Gould Storage Battery Company, New York, N. Y. Storage battery. No. 930,727; Aug. 10; Sp. p. 2267; Gaz. vol. 145; p. 334.
- Chamberlain, R. N., H. E. Pratt, Depew, N. Y., and A. S. Hubbard, Belleville, N. J., assignors to Gould Storage Battery Company, New York, N. Y. Storage battery. No. 930,728; Aug. 10; Sp. p. 2269; Gaz. vol. 145; p. 395.
- Chamberlain, T. (See Baker and Chamberlain.)



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- Chamberlin, A. W., New York, N. Y. Type-bar and bearing therefor. No. 913,199; Feb. 23; Sp. p. 4489; Gaz. vol. 139; p. 809.
- Chamberlin, A. W., New York, N. Y. Type-bar and bearing therefor. No. 913,200; Feb. 23; Sp. p. 4492; Gaz. vol. 139; p. 809.
- Chamberlin, C. E., *et al.* (See Shand, J., assignor.)
- Chamberlin, C. H. (See Blohm and Chamberlin.)
- Chamberlin Cartridge and Target Company. (See North, P., assignor.)
- Chamberlin, E. M. (See Chamberlin and Moulton, assignors.)
- Chamberlin, G. A. (See Fitch and Chamberlin.)
- Chamberlin, N. W., and L. V. Moulton, Grand Rapids, Mich.; said Chamberlin assignor to E. M. Chamberlin. Trolley-retriever. No. 908,547; Jan. 5; Sp. p. 241; Gaz. vol. 138; p. 41.
- Chamberlin, V. E., Indianapolis, Ind., assignor to Pope Manufacturing Company, Jersey City, N. J. Controller for electric motors. No. 928,028; July 13; Sp. p. 2755; Gaz. vol. 144; p. 470.
- Chamberlin, W. M., Jr., Detroit, Mich. Memorandum calendar pad and stand. No. 926,853; July 6; Sp. p. 319; Gaz. vol. 144; p. 51.
- Chambers, A. M. (See Fajans and Chambers.)
- Chambers, A. R., Somerville, Mass. Protector for blow-off pipes. No. 940,427; Nov. 16; Sp. p. 4415; Gaz. vol. 148; p. 738.
- Chambers, B. V., Rome, Ga. Oil-can. No. 916,998; Apr. 6; Sp. p. 69; Gaz. vol. 141; p. 16.
- Chambers Brothers Company. (See King, H. K., assignor.)
- Chambers, C., Jr., Overbrook, Pa. Dough-mixing machine. No. 921,202; May 11; Sp. p. 2261; Gaz. vol. 142; p. 398.
- Chambers, C., Jr., Overbrook, Pa. Dough-mixing machine. No. 921,361; May 11; Sp. p. 2615; Gaz. vol. 142; p. 451.
- Chambers, C., Jr., Overbrook, Pa. Dough-mixing machine. No. 921,796; May 13; Sp. p. 3503; Gaz. vol. 142; p. 622.
- Chambers, C., Jr., Overbrook, Pa. Dough-mixing machine. No. 939,392; Nov. 9; Sp. p. 2103; Gaz. vol. 148; p. 351.
- Chambers, C. B., Milo, Mo. Air-heater for gasoline-engines. No. 916,999; Apr. 6; Sp. p. 70; Gaz. vol. 141; p. 16.
- Chambers, E. C. (See Griswold and Chambers.)
- Chambers, E. C., Kansas City, Mo. Tooth-cleaning device. No. 918,281; Apr. 13; Sp. p. 2690; Gaz. vol. 141; p. 476.
- Chambers, E. R., East Dedham, Mass. Cover for cooking utensils. No. 918,282; Apr. 13; Sp. p. 2691; Gaz. vol. 141; p. 476.
- Chambers, J. M. (See Dougal and Chambers.)
- Chambers, L. (See Stover and Chambers.)
- Chambers, O. J., *et al.* (See Runnion, A., assignor.)
- Chambers, S., Tahoka, Tex. Stump-puller. No. 932,444; Aug. 31; Sp. p. 5939; Gaz. vol. 145; p. 1035.
- Chambers, S. J., Hastings, Nebr. Bench-clamp. No. 911,028; Feb. 2; Sp. p. 10; Gaz. vol. 139; p. 4.
- Chambers, W. J., Chicago, Ill., assignor to American Can Company, New York, N. Y. Sheet-metal pocket tobacco-box. No. 927,638; July 13; Sp. p. 1943; Gaz. vol. 144; p. 341.
- Chambers, W. L. C., Chicago, Ill. Sled. No. 930,729; Aug. 10; Sp. p. 2271; Gaz. vol. 145; p. 395.
- Chambless, A. J., Xenia, Ohio. Rail-tie. No. 939,801; Nov. 9; Sp. p. 2990; Gaz. vol. 148; p. 492.
- Chambonnaud, L., Paris, France. Type-writer. No. 917,248; Apr. 6; Sp. p. 595; Gaz. vol. 141; p. 102.
- Champ, J. H., Cleveland, Ohio. Bottle-centering device for bottle-filling machines. No. 909,868; Jan. 19; Sp. p. 2895; Gaz. vol. 138; p. 536.
- Champ, J. H., Cleveland, Ohio. Bottling-machine. No. 933,361; Sept. 7; Sp. p. 740; Gaz. vol. 146; p. 115.
- Champ, J. H., Cleveland, Ohio. Bottle-rest for filling-machines. No. 933,362; Sept. 7; Sp. p. 747; Gaz. vol. 146; p. 116.
- Champ, J. H., Cleveland, Ohio. Bottling-machine. No. 939,214; Nov. 9; Sp. p. 1644; Gaz. vol. 148; p. 290.
- Champ, J. H., Cleveland, Ohio. Bottling-machine. No. 939,978; Nov. 16; Sp. p. 3366; Gaz. vol. 148; p. 581.
- Champeau, A., Vancouver, British Columbia, Canada. Combined rake gage and jointer. No. 916,670; Mar. 30; Sp. p. 6122; Gaz. vol. 140; p. 1097.
- Champion Chemical Company. (See Hennessy, T. B., assignor.)
- Champion Chemical Company. (See Lannert, C. H., assignor.)
- Champion Machinery Company. (See Streich, F., assignor.)
- Champion Safety Lock Company. (See Larkin and Woody, assignors.)
- Champion Tool Works Company. (See Pfianzer, J. C., assignor.)
- Champion, W. R., Berkeley, Cal. Fireplace-damper. No. 926,048; June 22; Sp. p. 6186; Gaz. vol. 143; p. 1068.
- Champlin, A. B., *et al.* (See Flanagan, P. J., assignor.)
- Champlin, F. A. (See Burton, J. L., assignor.)
- Chance, F. S., Indianapolis, Ind. Amusement apparatus. No. 923,489; June 1; Sp. p. 836; Gaz. vol. 143; p. 127.
- Chance, K. M., assignor to British Cyanides Company, Limited, London, England. Manufacture of sulfocyanids. No. 922,564; May 25; Sp. p. 5084; Gaz. vol. 142; p. 902.
- Chance, W. J., Dawson, Yukon Territory, Canada. Dumping-car. No. 914,925; Mar. 9; Sp. p. 2647; Gaz. vol. 140; p. 444.
- Chance, W. J., Dawson, Yukon Territory, Canada. Navigation apparatus. No. 938,972; Nov. 2; Sp. p. 1127; Gaz. vol. 148; p. 181.
- Chandeysson, P. I., St. Louis, Mo., assignor to Peters Signal Company, Knox, Ind. Electric signal. No. 922,391; May 18; Sp. p. 4708; Gaz. vol. 142; p. 816.
- Chandler, A. D., trustee, *et al.* (See Ellis, E. H., assignor.)
- Chandler, A. J., Hermitage, Tenn. Reel-holder. No. 915,333; Mar. 16; Sp. p. 3463; Gaz. vol. 140; p. 604.
- Chandler, C. A., East Bridgewater, Mass. Cotton-seed huller. No. 916,913; Mar. 30; Sp. p. 6573; Gaz. vol. 140; p. 1172.
- Chandler, C. N., and G. Dow, Yarraville, Victoria, Australia. Downdraft-boiler. No. 917,751; Apr. 13; Sp. p. 1566; Gaz. vol. 141; p. 295.
- Chandler Company. (See Walbridge, H. L., assignor.)
- Chandler, E. F., Brooklyn, N. Y. Device for timing wagons. No. 933,418; Sept. 7; Sp. p. 859; Gaz. vol. 146; p. 134.
- Chandler, E. N., Brockton, assignor, by mesne assignments, to C. S. Luitwieler, Newton, Mass. Treeing-machine. No. 930,937; Aug. 10; Sp. p. 2710; Gaz. vol. 145; p. 463.
- Chandler, G. T., Juniper, Ga. Package-tie. No. 916,671; Mar. 30; Sp. p. 6123; Gaz. vol. 140; p. 1097.
- Chandler, J., Toledo, Ohio. Replenishing device. No. 938,557; Nov. 2; Sp. p. 264; Gaz. vol. 148; p. 39.
- Chandler, P. S., Mountpleasant, Tenn. Nursery-chair. No. 933,624; Sept. 7; Sp. p. 1354; Gaz. vol. 146; p. 201.
- Chandler & Price Company. (See La Due, E. A., assignor.)
- Chandler, R., and C. F. Autenrieth, Brooklyn, N. Y. Theatrical appliance. No. 943,651; Dec. 21; Sp. p. 3516; Gaz. vol. 149; p. 612.
- Chandler, S. (See Billburg and Chandler.)
- Chandler, T. P., Philadelphia, Pa. Wire-support. No. 921,362; May 11; Sp. p. 2622; Gaz. vol. 142; p. 451.
- Chaney, A. A., Hopedale, Ohio. Harness. No. 921,587; May 11; Sp. p. 3046; Gaz. vol. 142; p. 523.
- Chaney, G. C., Boston, Mass. Measuring the weight and other qualities of a material. No. 921,083; May 11; Sp. p. 2021; Gaz. vol. 142; p. 356.
- Channell, L. W. (See Channell, O. and L. W.)
- Channell, O. and L. W., Canton, Ohio. Mail-bag catching and delivering apparatus. No. 921,084; May 11; Sp. p. 2023; Gaz. vol. 142; p. 356.
- Channon, J. H., Chicago, Ill. Dusting-brush. No. 908,953; Jan. 5; Sp. p. 1060; Gaz. vol. 138; p. 171.
- Channon, J. H., Chicago, Ill. Intermediate support for awning-rollers and the like. No. 908,954; Jan. 5; Sp. p. 1062; Gaz. vol. 138; p. 172.
- Chantler, J. E., assignor of one-half to C. B. Butner, Lamar, Colo. Folding grain-door. No. 915,739; Mar. 23; Sp. p. 4322; Gaz. vol. 140; p. 768.
- Chapa, F. P., Eva, assignor of one-half to T. Salazar, Alice, Tex. Stalk-cutter. No. 912,072; Feb. 9; Sp. p. 2158; Gaz. vol. 139; p. 373.
- Chapin, E. S., New York, N. Y. Sulfur dye and making same. No. 909,151; Jan. 12; Sp. p. 1492; Gaz. vol. 138; p. 271.
- Chapin, E. S., New York, N. Y. Sulfur dye and making same. No. 909,152; Jan. 12; Sp. p. 1495; Gaz. vol. 138; p. 271.
- Chapin, E. S., New York, N. Y. Sulfur color and making same. No. 909,153; Jan. 12; Sp. p. 1497; Gaz. vol. 138; p. 271.
- Chapin, E. S., New York, N. Y. Sulfur dye and making same. No. 909,154; Jan. 12; Sp. p. 1500; Gaz. vol. 138; p. 272.
- Chapin, E. S., New York, N. Y. Sulfur dye and making same. No. 909,155; Jan. 12; Sp. p. 1500; Gaz. vol. 138; p. 272.
- Chapin, E. S., New York, N. Y. Sulfur color and making same. No. 909,156; Jan. 12; Sp. p. 1501; Gaz. vol. 138; p. 272.
- Chapin, J., Chicago, Ill. Filing-folder. No. 915,073; Mar. 16; Sp. p. 2902; Gaz. vol. 140; p. 518.
- Chapin, W. D., New York, N. Y. Blade-sharpening device. No. 939,215; Nov. 9; Sp. p. 1650; Gaz. vol. 148; p. 291.
- Chapin, W. G., Brooklyn, N. Y. Corrugated box-board. No. 918,964; Apr. 20; Sp. p. 4187; Gaz. vol. 141; p. 731.
- Chaple, G. F. (See Bishop and Chaple.)
- Chaplet, F. M., Laval, and A. Rémond, Paris, France. Electric furnace. No. 923,018; May 25; Sp. p. 6017; Gaz. vol. 142; p. 1048.
- Chaplin, O. R., assignor of one-half to R. W. Howard, Boston, Mass. Carpet-sweeper. No. 909,366; Jan. 12; Sp. p. 1893; Gaz. vol. 138; p. 339.
- Chapman, A. B., Silver Creek, and F. A. Shoemaker, Buffalo, N. Y.; said Shoemaker assignor to said Chapman. Rotary motor. No. 927,639; July 13; Sp. p. 1944; Gaz. vol. 144; p. 341.
- Chapman, A. W. (See Smith, S. L., assignor.)
- Chapman Ball Bearing Company. (See James, C. R., assignor.)
- Chapman, C. B., London, Ontario, Canada. Binder for loose-leaf books. No. 929,387; July 27; Sp. p. 5594; Gaz. vol. 144; p. 981.
- Chapman, C. C. (See Inwood and Chapman.)
- Chapman, C. C., assignor to National Wire Bound Box Co., South Bend, Ind. Woodworking-machine. No. 918,655; Apr. 20; Sp. p. 3509; Gaz. vol. 141; p. 627.
- Chapman, C. C., South Bend, Ind., assignor to National Wire Bound Box Company. Box-end-stapling machine. No. 921,588; May 11; Sp. p. 3047; Gaz. vol. 142; p. 523.

*Alphabetical list of patentees—Continued.*

- Chapman, C. E., assignor of one-half to J. Goodfellow, Fort Edward, N. Y. Boiler. No. 932,445; Aug. 31; Sp. p. 5940; Gaz. vol. 145; p. 1035.
- Chapman, C. H., Winchester, Mass., assignor to Lightning Hose-Coupling Company. Hose-coupling. No. 913,259; Feb. 23; Sp. p. 4615; Gaz. vol. 139; p. 828.
- Chapman, C. M. (See Fisher, J. H., assignor.)
- Chapman, C. M., and J. E. Woodbridge, New York, N. Y. Packing-case. No. 935,961; Oct. 5; Sp. p. 768; Gaz. vol. 147; p. 114.
- Chapman, E., Pontiac, Mich. Internal-combustion engine. No. 936,409; Oct. 12; Sp. p. 1696; Gaz. vol. 147; p. 286.
- Chapman, E., Ariel, Pa. Metal tie for concrete constructions. No. 941,616; Nov. 30; Sp. p. 6969; Gaz. vol. 148; p. 1179.
- Chapman, E., Ariel, Pa. Building-block. No. 941,617; Nov. 30; Sp. p. 6970; Gaz. vol. 148; p. 1179.
- Chapman Electric Neutralizer Company. (See Chapman, W. H., assignor.)
- Chapman, F. R. B., Winchester, Mass. Poultry-picking frame. No. 925,993; June 22; Sp. p. 6073; Gaz. vol. 143; p. 1050.
- Chapman, F. M., assignor of one-half to R. McWhorter, Fort Edward, N. Y. Machine for forming pulp-board. No. 910,358; Jan. 19; Sp. p. 3938; Gaz. vol. 138; p. 708.
- Chapman, F. S., Kenton, Ohio. Soldering device. No. 934,711; Sept. 21; Sp. p. 3497; Gaz. vol. 146; p. 609.
- Chapman, G. F., Linton, Ind. Screw-threading implement. No. 938,973; Nov. 2; Sp. p. 1130; Gaz. vol. 148; p. 181.
- Chapman, I., assignor of one-half to F. E. Knudsen, Eckelson, N. D. Pot and kettle cover. No. 939,802; Nov. 9; Sp. p. 2991; Gaz. vol. 148; p. 492.
- Chapman, J. B. (See Egenas and Chapman.)
- Chapman, J. L. (See Frederick and Chapman.)
- Chapman, J. W. (See Savage and Chapman.)
- Chapman, L. S., Schenectady, N. Y., assignor to General Electric Company. Rheostat. No. 917,000; Apr. 6; Sp. p. 71; Gaz. vol. 141; p. 16.
- Chapman, M. T., assignor to American Well Works, Aurora, Ill. Well-sinking apparatus. No. 943,913; Dec. 21; Sp. p. 4050; Gaz. vol. 149; p. 702.
- Chapman, R. F., Content, Alberta, Canada. Ratchet-wrench. No. 934,503; Sept. 21; Sp. p. 3088; Gaz. vol. 146; p. 538.
- Chapman Valve Manufacturing Company. (See Johnston, G. W., assignor.)
- Chapman Valve Manufacturing Company. (See Ward and Yerrick, assignors.)
- Chapman, W. A., Smithville, Ark. Sound-box. No. 943,339; Dec. 14; Sp. p. 2815; Gaz. vol. 149; p. 474.
- Chapman, W. B., Brooklyn, N. Y. Apparatus for burning brick. No. 933,419; Sept. 7; Sp. p. 862; Gaz. vol. 146; p. 135.
- Chapman, W. H., Portland, Me. Means for neutralizing static electricity. No. 940,431; Nov. 16; Sp. p. 4425; Gaz. vol. 148; p. 740.
- Chapman, W. H., assignor to Chapman Electric Neutralizer Company, Portland, Me. Apparatus for neutralizing electricity in moving material. No. 940,428; Nov. 16; Sp. p. 4418; Gaz. vol. 148; p. 739.
- Chapman, W. H., assignor to Chapman Electric Neutralizer Company, Portland, Me. Neutralizing static electricity. No. 940,429; Nov. 16; Sp. p. 4431; Gaz. vol. 148; p. 739.
- Chapman, W. H., assignor to Chapman Electric Neutralizer Company, Portland, Me. Process and apparatus for neutralizing static electricity. No. 940,430; Nov. 16; Sp. p. 4423; Gaz. vol. 148; p. 740.
- Chapman, W. M., Needham, Mass., assignor to Electric-Railway Signal Company, Kittery, Me. Signal-controlling apparatus. No. 942,195; Dec. 7; Sp. p. 360; Gaz. vol. 149; p. 55.
- Chapman, W. F., Toronto, Ontario, Canada. Stress-indicator. No. 924,427; June 8; Sp. p. 2877; Gaz. vol. 143; p. 470.
- Chappelear, T. H., Lavonia, Ga. Churn. No. 944,014; Dec. 21; Sp. p. 4275; Gaz. vol. 149; p. 736.
- Chappell, C. S., *et al.* (See Smith, J. F., assignor.)
- Chappell, E. O., *et al.* (See Smith, J. F., assignor.)
- Chappell, W. H., Chicago, Ill. Electric production-controlling device for factories. No. 926,386; June 29; Sp. p. 6896; Gaz. vol. 143; p. 1214.
- Chappelle, W. D., *et al.* (See Flynn, J., assignor.)
- Chappelow, C. W., Independence, Mo. Producing concrete structures. No. 937,142; Oct. 19; Sp. p. 3202; Gaz. vol. 147; p. 560.
- Chapsal, F. J., Paris, and A. L. E. Saillot, Colombes, France. Accelerator for continuous pneumatic brakes. No. 929,551; July 27; Sp. p. 5876; Gaz. vol. 144; p. 1032.
- Charbeneau, C. A. (See Charbeneau, J. H. and C. A.)
- Charbeneau, J. H. and C. A., Mount Clemens, Mich. Cigar-band. No. 916,672; Mar. 30; Sp. p. 6125; Gaz. vol. 140; p. 1097.
- Charles Bond Company. (See Grundy, J. R., assignor.)
- Charles, E. E. (See Baker, E. E., assignor.)
- Charles, H. H., Manor township, Lancaster county, Pa. Incubator. No. 927,711; July 13; Sp. p. 2101; Gaz. vol. 144; p. 365.
- Charles, F., and S. Faujat, assignors to J. Livingston, Frankfurt-on-the-Main, Germany. Printing medium. No. 929,913; Aug. 3; Sp. p. 626; Gaz. vol. 145; p. 99.
- Charles, S., Neillville, Wis. Automobile sleigh attachment. No. 939,666; Nov. 9; Sp. p. 2703; Gaz. vol. 148; p. 446.
- Charles Smith Company. (See Smith, C., assignor.)
- Charles W. Shonk Company. (See Hall, W. H., assignor.)
- Charlesworth, J., Horfield, Bristol, England. Folding umbrella. No. 928,426; July 20; Sp. p. 3588; Gaz. vol. 144; p. 634.
- Charlier, A. T., Livorno, N. D. Railroad steel tie. No. 916,419; Mar. 30; Sp. p. 5602; Gaz. vol. 140; p. 1015.
- Charlson, N. J., Charlson, N. D. Potato-planter. No. 937,421; Oct. 19; Sp. p. 3920; Gaz. vol. 147; p. 651.
- Charlton, A. J., Bennett, Iowa. Rotary engine. No. 908,955; Jan. 5; Sp. p. 1064; Gaz. vol. 138; p. 172.
- Charlton, E. H., Ottawa, Ontario, Canada. Fare-collecting box. No. 918,963; Apr. 20; Sp. p. 4184; Gaz. vol. 141; p. 731.
- Charlton, T., Chicago, Ill. Assignor of one-fifth to R. L. Dorbandt and one-fifth to J. H. Parker, El Paso, Tex. Electromagnetic ore-separator. No. 912,363; Feb. 16; Sp. p. 2765; Gaz. vol. 139; p. 504.
- Charnat, E., Paris, France. Apparatus for fermentation and decantation of sparkling wines under pressure. No. 927,944; July 13; Sp. p. 2596; Gaz. vol. 144; p. 442.
- Charnois, D. C., Canton, Ohio. Stop and waste valve. No. 909,989; Jan. 19; Sp. p. 3146; Gaz. vol. 138; p. 581.
- Charnois, D. C., Canton, Ohio. Supply and waste for bath-tubs. No. 912,990; Feb. 23; Sp. p. 4070; Gaz. vol. 139; p. 738.
- Charonne, B., London, England. Vapor lamp and burner. No. 918,005; Apr. 13; Sp. p. 2130; Gaz. vol. 141; p. 383.
- Charpentier, J. O., Concord, N. H. Metal-cutting shears. No. 938,122; Oct. 26; Sp. p. 3279; Gaz. vol. 147; p. 903.
- Charter, J. (See Charter, J. A. and J.)
- Charter, J. A., Chicago, Ill. Motor-vehicle. No. 941,129; Nov. 23; Sp. p. 5926; Gaz. vol. 148; p. 997.
- Charter, J. A., assignor to Austin Manufacturing Company, Chicago, Ill. Float-controlled oil-supply device for gas-engines. No. 933,888; Sept. 14; Sp. p. 1884; Gaz. vol. 146; p. 311.
- Charter, J. A., assignor to Austin Manufacturing Company, Chicago, Ill. Electric igniter for gas-engines. No. 938,123; Oct. 26; Sp. p. 5280; Gaz. vol. 147; p. 904.
- Charter, J. A., Chicago, and J. Charter, Xenia, assignors to Austin Manufacturing Company, Chicago, Ill. Charge-forming device for gas-engines. No. 928,939; July 27; Sp. p. 4630; Gaz. vol. 144; p. 831.
- Charters, W. A., and E. G. Bardwell, Buffalo, N. Y. Junction-box. No. 911,293; Feb. 2; Sp. p. 537; Gaz. vol. 139; p. 92.
- Charters, W. J. (See Abel, N. P., assignor.)
- Chartier, A. N., Brookline, Mass. Thread-cop. No. 939,667; Nov. 9; Sp. p. 2705; Gaz. vol. 148; p. 446.
- Charvin, A., Paris, France. Friction-clutch. No. 914,112; Mar. 2; Sp. p. 979; Gaz. vol. 140; p. 154.
- Chase & Baker Company. (See Bayer, W. F., assignor.)
- Chase, C. B., Worcester, N. Y. Wheel. No. 917,001; Apr. 6; Sp. p. 73; Gaz. vol. 141; p. 17.
- Chase, E. A., assignor of one-half to A. F. Lanier, Northfield, Vt. Stone-cutting machine. No. 916,104; Mar. 23; Sp. p. 5001; Gaz. vol. 140; p. 886.
- Chase, E. L., and B. F. Milton, West Sound, Wash. Egg-beater. No. 936,410; Oct. 12; Sp. p. 1698; Gaz. vol. 147; p. 286.
- Chase, F., Waterville, Me., assignor, by mesne assignments, to United Shoe Machinery Company. Lasting-machine. No. 935,090; Sept. 28; Sp. p. 4261; Gaz. vol. 146; p. 762.
- Chase, F. H., Chicago, Ill. Stamp-cabinet. No. 920,913; May 11; Sp. p. 1679; Gaz. vol. 142; p. 299.
- Chase, F. K., Cincinnati, Ohio. Coin-actuated weighing and vending machine. No. 923,245; June 1; Sp. p. 200; Gaz. vol. 143; p. 43.
- Chase, H. E. (See Lathrop and Chase.)
- Chase, J. S., Fennville, Mich. Water-craft. No. 919,694; Apr. 27; Sp. p. 5872; Gaz. vol. 141; p. 1008.
- Chase, M., Haverhill, Mass. Storage apparatus for liquefied gas. No. 911,294; Feb. 2; Sp. p. 538; Gaz. vol. 139; p. 92.
- Chase, M. M., Buck Grove, Iowa. Fruit-butter cooker. No. 926,240; June 29; Sp. p. 6625; Gaz. vol. 143; p. 1168.
- Chase, N. N., Peoria, Ill. Steam-cooker. No. 918,656; Apr. 20; Sp. p. 3510; Gaz. vol. 141; p. 627.
- Chase, P. C., Upland, Cal. Electric heating device. No. 918,732; Apr. 20; Sp. p. 3691; Gaz. vol. 141; p. 655.
- Chase, R. A., assignor of one-half to W. H. Whitney, Waterbury, Conn. Night-latch. No. 943,216; Dec. 14; Sp. p. 2547; Gaz. vol. 149; p. 432.
- Chase-Shawmut Co. (See Conant, F. N., assignor.)
- Chase, W. O., Detroit, Mich. Shoe-support. No. 932,757; Aug. 31; Sp. p. 6632; Gaz. vol. 145; p. 1141.
- Chasse, G. G., North Craftsbury, Vt. Sap-spout. No. 908,744; Jan. 5; Sp. p. 670; Gaz. vol. 138; p. 104.
- Chasse, G. G., North Craftsbury, Vt. Valve for evaporating-pans. No. 944,175; Dec. 21; Sp. p. 4601; Gaz. vol. 149; p. 789.
- Chateau, J., and J. Merklen, Paris, France. Impregnating wood. No. 925,292; June 15; Sp. p. 4635; Gaz. vol. 143; p. 792.
- Chatfield & Woods Sack Co. (See Pullinger, J., assignor.)



*Alphabetical list of patentees—Continued.*

- Chatterton, A. E. (See Copeland, R. J., assignor.)  
 Chatterton, B. (See Sheppard and Chatterton.)  
 Chattrin, F. W. (See Wheeler, W., assignor.) (Reissue.)  
 Chaumat, H., Paris, France. Preparation of the indigo-vat employed in dyeing. (Reissue.) No. 12,946; Apr. 27; Sp. p. 6752; Gaz. vol. 141; p. 1143.  
 Chauncey, J. W., assignor of one-half to C. J. W. Summers, Alexandria, Va. Stove-door fender. No. 920,270; May 4; Sp. p. 394; Gaz. vol. 142; p. 59.  
 Chausse, W., Long Island City, assignor of one-fourth to L. P. Smith, New York, and one-half to G. Osborn, Mount Vernon, N. Y. Vapor-torch. No. 918,006; Apr. 13; Sp. p. 2131; Gaz. vol. 141; p. 383.  
 Chausse, W., Long Island City, assignor of one-fourth to L. P. Smith, New York, and one-half to G. Osborn, Mount Vernon, N. Y. Vapor-burner. No. 933,822; Sept. 14; Sp. p. 1751; Gaz. vol. 146; p. 291.  
 Chausse, W., Long Island City, assignor of one-fourth to L. P. Smith, New York, and one-half to G. Osborn, Mount Vernon, N. Y. Vapor-burner. No. 933,823; Sept. 14; Sp. p. 1753; Gaz. vol. 146; p. 291.  
 Chaussinand, H., St. Dizier, France. Oar. No. 923,945; June 8; Sp. p. 1863; Gaz. vol. 143; p. 311.  
 Chavanne, I. A., St. Chamond, France. Gas-generator. No. 930,532; Aug. 10; Sp. p. 1878; Gaz. vol. 145; p. 331.  
 Chavériat, V., St. Denis, France, assignor of one-half to J. P. O'Donnell, Westminster, England. Apparatus for adjusting railway-vehicle and like brakes. No. 920,540; May 4; Sp. p. 905; Gaz. vol. 142; p. 146.  
 Chavis, C. D., St. Paul, Minn. Potato-ricer. No. 916,420; Mar. 30; Sp. p. 5604; Gaz. vol. 140; p. 1015.  
 Cheape, J. A., assignor to Simplex Adder Company, Charlottesville, Va. Adding device. No. 924,320; June 8; Sp. p. 2676; Gaz. vol. 143; p. 436.  
 Cheatham Electric Switching Device Company. (See Cheatham, R. V., assignor.)  
 Cheatham, R. V., St. Mathews, Ky. Fluid-pressure switching device. No. 934,138; Sept. 14; Sp. p. 2398; Gaz. vol. 146; p. 393.  
 Cheatham, R. V., St. Mathews, Ky. Electric signaling device. No. 934,284; Sept. 14; Sp. p. 2656; Gaz. vol. 146; p. 441.  
 Cheatham, R. V., assignor to Cheatham Electric Switching Device Company, Louisville, Ky. Electric switching device for railways. No. 917,541; Apr. 6; Sp. p. 1140; Gaz. vol. 141; p. 199.  
 Chedest, W. R., Morrisville, Pa. Point for guard-rails. No. 910,115; Jan. 19; Sp. p. 3379; Gaz. vol. 138; p. 621.  
 Chédru, G., assignor to E. R. Thomas Motor Company, Buffalo, N. Y. Variable-speed gearing. No. 924,889; June 15; Sp. p. 3860; Gaz. vol. 143; p. 658.  
 Cheely, I. W. (See Lasswell, Hopper, Cheely, and Lasswell.)  
 Cheesman, R. E., La Fayette, Ind. Fireman's mask. No. 911,476; Feb. 2; Sp. p. 854; Gaz. vol. 139; p. 151.  
 Cheevers, P. A., London, Ontario, Canada. Automatic horse and cattle water-bowl. No. 909,282; Jan. 12; Sp. p. 1740; Gaz. vol. 138; p. 313.  
 Chemical Industrial Syndicate Limited. (See Stange, L., assignor.)  
 Chemienes, S., St. Clairsville, Ohio. Knife. No. 915,269; Mar. 16; Sp. p. 3339; Gaz. vol. 140; p. 583.  
 Chemische Fabrik auf Actien (vorm. E. Schering). (See Dohrn, M., assignor.)  
 Chemische Fabrik auf Actien (vorm. E. Schering). (See Rehländer, P., assignor.)  
 Chemische Fabrik Buckau. (See Adolph and Pietzsch, assignors.)  
 Chemische Fabrik Florsheim, Dr. H. Noerdlinger. (See Noerdlinger, Caroselli, and Berg, assignors.)  
 Chemische Fabrik Griesheim-Elektron. (See Rakowicz, P., assignor.)  
 Chemische Fabrik Griesheim Electron. (See Schultze, H., assignor.)  
 Chemische Fabrik Griesheim Electron. (See Specketer, H., assignor.)  
 Chemische Fabrik Griesheim Electron. (See Wiss, E., assignor.)  
 Chemische Fabrik Helfenberg, A. G., formerly Eugen Dieterich. (See Schmidt, A., assignor.)  
 Chemische Fabrik von Heyden Aktiengesellschaft. (See Philipp, C., assignor.)  
 Chemische Werke vorm. Dr. Heinrich Byk. (See Grüter, R., assignor.)  
 Cheney, A. J., Beverly, Mass. Urinal-ventilator. No. 931,268; Aug. 17; Sp. p. 3489; Gaz. vol. 145; p. 604.  
 Cheney, C. W., Brookline, Mass. Aeroplane. No. 936,303; Oct. 12; Sp. p. 1438; Gaz. vol. 147; p. 250.  
 Cheney, C. W., Atlanta, Ga. Automatic toy. No. 936,602; Oct. 12; Sp. p. 2113; Gaz. vol. 147; p. 351.  
 Cheney, G. K., New York, N. Y., assignor, by mesne assignments, to Victor Talking Machine Company. Reproducing-stylus for talking-machines. No. 915,936; Mar. 23; Sp. p. 4678; Gaz. vol. 140; p. 830.  
 Cheney, G. K., New York, N. Y., assignor, by mesne assignments, to Victor Talking Machine Company. Recording sound. No. 941,010; Nov. 23; Sp. p. 5666; Gaz. vol. 148; p. 957.  
 Cheney, G. K., New York, N. Y., assignor, by mesne assignments, to Victor Talking Machine Company. Apparatus for recording sound. No. 941,011; Nov. 23; Sp. p. 5669; Gaz. vol. 148; p. 957.  
 Cheney, G. L., Essex, assignor to Pratt, Read & Company, Deep River, Conn. Key for organs, pianos, &c. No. 927,945; July 13; Sp. p. 2598; Gaz. vol. 144; p. 442.  
 Cheney, H. N. (See McKay and Cheney.)  
 Cheney, H. N., and H. L. V. Nickerson, Boston, Mass. Apparatus for analyzing gas. No. 922,086; May 18; Sp. p. 4107; Gaz. vol. 142; p. 717.  
 Cheney, H. W., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Potential starter attachment. No. 909,367; Jan. 12; Sp. p. 1896; Gaz. vol. 138; p. 339.  
 Cheney, H. W., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Multiple-unit switch. No. 912,542; Feb. 16; Sp. p. 3145; Gaz. vol. 139; p. 564.  
 Cheney, H. W., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Switch construction. No. 917,542; Apr. 6; Sp. p. 1142; Gaz. vol. 141; p. 199.  
 Cheney, H. W., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Controller. No. 916,843; Mar. 30; Sp. p. 6432; Gaz. vol. 140; p. 1149.  
 Cheney, H. W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Controller for electric motors. No. 921,589; May 11; Sp. p. 3051; Gaz. vol. 142; p. 524.  
 Cheney, H. W., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Controller. No. 911,029; Feb. 2; Sp. p. 10; Gaz. vol. 139; p. 5.  
 Cheney, H. W., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Cable-connector. No. 925,293; June 15; Sp. p. 4636; Gaz. vol. 143; p. 792.  
 Cheney, H. W., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Circuit-breaker. No. 925,441; June 15; Sp. p. 4916; Gaz. vol. 143; p. 839.  
 Cheney, H. W., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Oil-switch. No. 925,994; June 22; Sp. p. 6075; Gaz. vol. 143; p. 1050.  
 Cheney, H. W., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Controller. No. 925,995; June 22; Sp. p. 6078; Gaz. vol. 143; p. 1051.  
 Cheney, H. W., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Automatic circuit-breaker. No. 928,901; July 20; Sp. p. 4547; Gaz. vol. 144; p. 793.  
 Cheney, H. W., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Circuit-breaker. No. 930,155; Aug. 3; Sp. p. 1122; Gaz. vol. 145; p. 182.  
 Cheney, H. W., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Oil-switch. No. 930,156; Aug. 3; Sp. p. 1124; Gaz. vol. 145; p. 182.  
 Cheney, H. W., Norwood, Ohio, assignor to Allis-Chalmers Company. Motor-controller. No. 931,384; Aug. 17; Sp. p. 3738; Gaz. vol. 145; p. 644.  
 Cheney, H. W., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Time-limit device for controllers. No. 931,994; Aug. 24; Sp. p. 5035; Gaz. vol. 145; p. 863.  
 Cheney, W. W., Manlius, N. Y. Combined waste-cremator and urn. No. 934,594; Sept. 21; Sp. p. 3257; Gaz. vol. 146; p. 568.  
 Chenoweth, A. N., Waterbury, Conn. Telephone-line-testing system. No. 938,974; Nov. 2; Sp. p. 1131; Gaz. vol. 148; p. 182.  
 Chernack, A. E., Boston, Mass. Machine for cutting nozzles for turbines and the like. No. 927,450; July 6; Sp. p. 1508; Gaz. vol. 144; p. 250.  
 Chernack, A. E., assignor to Chernack Circular Loom Company, Boston, Mass. Circular loom. No. 920,728; May 4; Sp. p. 1299; Gaz. vol. 142; p. 209.  
 Chernack, A. E., assignor to Chernack Braider Company, Boston, Mass. Braiding-machine. No. 939,216; Nov. 9; Sp. p. 1651; Gaz. vol. 148; p. 291.  
 Chernack Braider Company. (See Chernack, A. E., assignor.)  
 Chernack Circular Loom Company. (See Chernack, A. E., assignor.)  
 Cherry, A. E., Bellwood, Pa. Incubator. No. 915,412; Mar. 16; Sp. p. 3617; Gaz. vol. 140; p. 630.  
 Cherry, A. E., Bellwood, Pa. Window-pane fastener. No. 928,359; July 20; Sp. p. 3469; Gaz. vol. 144; p. 612.  
 Cherry, D. W., Donaldsonville, Ga. Grate. No. 909,756; Jan. 12; Sp. p. 2668; Gaz. vol. 138; p. 470.  
 Cherry, P. H., Los Angeles, Cal. Inhaling apparatus. No. 943,180; Dec. 14; Sp. p. 2468; Gaz. vol. 149; p. 419.  
 Cherry, T. E. (See Evans and Cherry.)

*Alphabetical list of patentees—Continued.*

- Cherry, T. E., Revere, Mass. Pump. No. 918,007; Apr. 13; Sp. p. 2133; Gaz. vol. 141; p. 383.  
 Cherry, U. R., *et al.* (See Ellis, G. M., assignor.)  
 Cherry, W. E. W., Columbus, Ohio. Store-window. No. 943,812; Dec. 21; Sp. p. 3831; Gaz. vol. 149; p. 666.  
 Cherryvale Specialty Manufacturing Company. (See Akers, H. H., assignor.)  
 Chesebro, D. P., assignor to New York Scaffolding Company, New York, N. Y. Scaffold-hanger. No. 927,946; July 13; Sp. p. 2599; Gaz. vol. 144; p. 443.  
 Chesebro, H., Seattle, Wash. Hay-beater. No. 926,241; June 29; Sp. p. 6626; Gaz. vol. 143; p. 1169.  
 Chesney, C. C., Pittsfield, Mass., and H. B. Wilson, Schenectady, N. Y., assignors to General Electric Company. Electric fluid-heater. No. 925,155; June 15; Sp. p. 4386; Gaz. vol. 143; p. 748.  
 Chesney, J., Paulsboro, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Paper-shell machine. No. 914,384; Mar. 9; Sp. p. 1564; Gaz. vol. 140; p. 266.  
 Chesney, J., Paulsboro, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Machine for making paper shells. No. 931,269; Aug. 17; Sp. p. 3490; Gaz. vol. 145; p. 604.  
 Chesney, J., Paulsboro, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Machine for making paper shells. No. 939,948; Nov. 9; Sp. p. 3292; Gaz. vol. 148; p. 543.  
 Chesnutt, T. S., assignor of three-fourths to L. Langford, P. B. Smith, and W. B. Thornton, Oklahoma, Okla. Loading-truck. No. 911,111; Feb. 2; Sp. p. 169; Gaz. vol. 139; p. 32.  
 Chesrown, J. W., Mansfield, Ohio. Burial-vault. No. 919,126; Apr. 20; Sp. p. 4478; Gaz. vol. 141; p. 782.  
 Chesrown, M. M. (See Fairer, A., assignor.)  
 Chesser, J. L., Gainesville, Fla. Fish-hook. No. 929,914; Aug. 3; Sp. p. 627; Gaz. vol. 145; p. 99.  
 Chesson, A. J., Suffolk, Va. Bundle-forming machine. No. 920,541; May 4; Sp. p. 908; Gaz. vol. 142; p. 146.  
 Chester B. Albree Iron Works Company. (See Albree, C. B., assignor.)  
 Chester, T., *et al.* (See Ray, A. D., assignor.)  
 Chevrolet, L., Philadelphia, Pa. Speed-changing mechanism. No. 919,538; Apr. 27; Sp. p. 5549; Gaz. vol. 141; p. 954.  
 Chew, B. A., Augusta, Ga. Pressure-holding valve. No. 909,061; Jan. 5; Sp. p. 1278; Gaz. vol. 138; p. 206.  
 Chew, L. (See Webster and Chew.)  
 Chiariglione, H., *et al.* (See Tavella, F., assignor.)  
 Chicago Card Cutting Company. (See Sargent and Peebles, assignors.)  
 Chicago Fireproof Covering Co. (See Todd and Mayr, assignors.)  
 Chicago Folding Box Company. (See Seegmiller, C. H., assignor.)  
 Chicago Grain Door Company. (See Hill, E. A., assignor.)  
 Chicago Laundry Machinery Co. (See Spansail, G. H., assignor.)  
 Chicago Metal Weather Strip Company. (See Hedberg, P. L., assignor.)  
 Chicago Nut Company. (See Messinger, C. F., assignor.)  
 Chicago Pneumatic Tool Company. (See Duntley, W. O., assignor.)  
 Chicago Pneumatic Tool Company. (See Duntley and Kimman, assignors.)  
 Chicago Pneumatic Tool Company. (See Thompson and Mackie, assignors.)  
 Chicago Pneumatic Tool Company. (See Thompson, Mackie, and Doyle, assignors.)  
 Chicago Railway Equipment Company. (See Robischung, H. B., assignor.)  
 Chicago Railway Equipment Company. (See Williams, C. H., Jr., assignor.)  
 Chicago Spring Butt Company. (See Keene, W. J., assignor.)  
 Chicago Spring Butt Company. (See Keene and Schuster, assignors.)  
 Chicago Title Trust Company. (See Parsons, W. R., assignor.)  
 Chicago Title & Trust Company. (See Parsons, W. R., assignor.)  
 Chicago Title & Trust Company, trustee. (See Parsons, W. R., assignor.)  
 Chicago Vacuum Jar Co. (See Moody, J. W., assignor.)  
 Chicago Varnish Company. (See Scott, W. G., assignor.)  
 Chickering, F. W. (See White and Chickering.)  
 Chidester, D. F. (See Robertson, J. B., assignor.)  
 Chidester, J. H., Dobbs Ferry, N. Y. Shipping-can. No. 927,223; July 6; Sp. p. 1076; Gaz. vol. 144; p. 175.  
 Chiesanova, A. F., Brussels, Belgium. Lamp burning with hydrocarbon or other vapors. No. 929,285; July 27; Sp. p. 5368; Gaz. vol. 144; p. 945.  
 Chiesanova, A. F., Brussels, Belgium. Dismountable petroleum or the like stove. No. 935,639; Oct. 5; Sp. p. 23; Gaz. vol. 147; p. 6.  
 Chigbrow, H. P. (See Sharp, J., assignor.)  
 Child, A., and A. Kraemer, Denver, Colo.; said Kraemer assignor to said Child. Floor-smoothing machine. No. 923,330; June 1; Sp. p. 513; Gaz. vol. 143; p. 73.  
 Childress, B. F. (See Catlett and Childress.)  
 Childs, C. N., Lowell, Mass. Attachment for spinning-frames. No. 921,797; May 18; Sp. p. 3509; Gaz. vol. 142; p. 623.  
 Childs, E., assignor to Trimont Manufacturing Company, Boston, Mass. Machine for drilling stock. No. 919,823; Apr. 27; Sp. p. 6157; Gaz. vol. 141; p. 1050.  
 Childs, E. N., assignor to American Calking Machine Company, Perry, Iowa. Horseshoe-calk former. No. 940,235; Nov. 16; Sp. p. 3954; Gaz. vol. 148; p. 673.  
 Childs, G. A. (See Hackmann and Childs.)  
 Childs, G. W., New York, N. Y. Leather-dressing process. No. 929,552; July 27; Sp. p. 5879; Gaz. vol. 144; p. 1033.  
 Childs, G. W., Ridgway, Pa. Concentrating liquids. No. 936,760; Oct. 12; Sp. p. 2431; Gaz. vol. 147; p. 405.  
 Childs, G. W., Seeleyville, Ind. Closure for powder-cans. No. 940,128; Nov. 16; Sp. p. 3733; Gaz. vol. 148; p. 635.  
 Childs, S. S., Bernardsville, N. J. Tire. No. 929,122; July 27; Sp. p. 5011; Gaz. vol. 144; p. 891.  
 Childs, S. S., Bernardsville, N. J. Armor for tires. No. 943,002; Dec. 14; Sp. p. 2096; Gaz. vol. 149; p. 360.  
 Chilson, A. A., Salem, Mass. Leather-splitting machine. No. 909,157; Jan. 12; Sp. p. 1502; Gaz. vol. 138; p. 272.  
 Chilton, J. W. (See Penington and Chilton.)  
 Chipera, T., Breckenridge, Minn. Sieve for fanning-mills. No. 910,904; Jan. 26; Sp. p. 5049; Gaz. vol. 138; p. 909.  
 Chippes, H. H. (See Wegner, W. F., assignor.)  
 Chirgwin, E. J., Portland, Oreg. Illuminated sign. No. 936,234; Oct. 5; Sp. p. 1306; Gaz. vol. 147; p. 200.  
 Chisholm, C. L., Marysville, New Brunswick, Canada. Telephone-transmitter. No. 920,431; May 4; Sp. p. 697; Gaz. vol. 142; p. 110.  
 Chisholm, C. L., Marysville, New Brunswick, Canada. Transmission of electrical power. No. 936,304; Oct. 12; Sp. p. 1441; Gaz. vol. 147; p. 250.  
 Chisholm, D. H. (See Hawks, W., assignor.)  
 Chisholm, G. H., Sutter Creek, Cal. Friction-gearing. No. 941,856; Nov. 30; Sp. p. 7508; Gaz. vol. 148; p. 1262.  
 Chisholm, J. E. (See Seddon, C. W., assignor.)  
 Chisholm and Moore Manufacturing Co. (See Tompkins, B. T., assignor.)  
 Chisholm, W. J., Houston, Tex. Mud-guard. No. 941,228; Nov. 23; Sp. p. 6147; Gaz. vol. 148; p. 1031.  
 Chism, M. S., Philadelphia, Pa. Instrument-case. No. 920,023; Apr. 20; Sp. p. 6540; Gaz. vol. 141; p. 1116.  
 Chiselm, T. R., Blackville, S. C. Coin-controlled vending apparatus. No. 919,824; Apr. 27; Sp. p. 6160; Gaz. vol. 141; p. 1051.  
 Chivers, C., Brooklyn, N. Y. Loose-back book. No. 931,679; Aug. 17; Sp. p. 4307; Gaz. vol. 145; p. 736.  
 Chleborad, H. E., Atwood, Kans. Compressed-air water-elevator. No. 935,742; Oct. 5; Sp. p. 250; Gaz. vol. 147; p. 40.  
 Chleborad, J., Omaha, Nebr. Window. No. 925,294; June 15; Sp. p. 4638; Gaz. vol. 143; p. 792.  
 Choate, H. H., assignor to United Dairies Company, Gloucester, Mass. Cabinet for holding milk-bottles and the like. No. 937,510; Oct. 19; Sp. p. 4011; Gaz. vol. 147; p. 681.  
 Chojński, A. de, Dresden, Germany. Apparatus for preventing human beings from being buried alive. No. 945,007; Dec. 28; Sp. p. 6398; Gaz. vol. 149; p. 1097.  
 Choitz, W. P., Chicago, Ill. Smoke-consuming attachment for furnaces. No. 941,496; Nov. 30; Sp. p. 6730; Gaz. vol. 148; p. 1140.  
 Cholet, A. P., *et al.* (See Daniel, T. J., assignor.)  
 Cholet, L., New York, N. Y. Picture-molding. No. 931,566; Aug. 17; Sp. p. 4073; Gaz. vol. 145; p. 701.  
 Cholutis, J. E., and H. Jeannesson, Paris, France. Stove. No. 939,890; Nov. 9; Sp. p. 3165; Gaz. vol. 148; p. 522.  
 Chorier, L. M., assignor to Société Française de La Viscose, Paris, France. Applying and treating strands with viscose, and the article No. 912,812; Feb. 16; Sp. p. 3739; Gaz. vol. 139; p. 658.  
 Chott, E. L., assignor of one-half to H. J. Chott, Chicago, Ill. Dental instrument. No. 938,640; Nov. 2; Sp. p. 432; Gaz. vol. 148; p. 66.  
 Chott, H. J. (See Chott, E. L., assignor.)  
 Chow, J. A., Helena, Mont. Table attachment. No. 942,613; Dec. 7; Sp. p. 1213; Gaz. vol. 149; p. 198.  
 Chreitzberg, H. F., Monroe, N. C. Coin-controlled lock for doors. No. 918,008; Apr. 13; Sp. p. 2135; Gaz. vol. 141; p. 384.  
 Chriske, A., Ladysmith, Wls. Rail-joint. No. 923,331; June 1; Sp. p. 516; Gaz. vol. 143; p. 73.  
 Chrisman, C. C., St. Louis, Mo. Type-writer. No. 918,283; Apr. 13; Sp. p. 2692; Gaz. vol. 141; p. 476.



*Alphabetical list of patentees—Continued.*

- Chrisman, C. E. (See Burton, R. L., assignor.)  
 Chrisman, C. E. (See Smithson, H., assignor.)  
 Chrisman, C. S., West Chester, Pa. Burner. No. 933,019; Aug. 31; Sp. p. 7129; Gaz. vol. 145; p. 1225.  
 Chrisman, H., Edgewood Park, Pa., assignor to Pittsburg Meter Company. Gas-meter. No. 933,159; Sept. 7; Sp. p. 259; Gaz. vol. 146; p. 43.  
 Christ, R., Hamilton, Ohio. Gas-cock. No. 920,914; May 11; Sp. p. 1683; Gaz. vol. 142; p. 299.  
 Christa, J., Winnipeg, Manitoba, Canada. Plowshare. No. 923,138; June 1; Sp. p. 24; Gaz. vol. 143; p. 6.  
 Christensen, C., assignor to David Bradley Manufacturing Company, Bradley, Ill. Plow. No. 938,975; Nov. 2; Sp. p. 1135; Gaz. vol. 148; p. 182.  
 Christensen, C., Bradley, Ill., and C. W. Noonan, Council Bluffs, Iowa, assignors to David Bradley Manufacturing Company, Bradley, Ill. Neck-yoke. No. 911,112; Feb. 2; Sp. p. 172; Gaz. vol. 139; p. 32.  
 Christensen, C. J., New York, N. Y. Device for lowering life-boats. No. 940,512; Nov. 16; Sp. p. 4598; Gaz. vol. 148; p. 767.  
 Christensen, E. (See Pfleger and Christensen.)  
 Christensen, H., Seattle, Wash. Electric-lamp-socket fastening. No. 938,212; Oct. 26; Sp. p. 5472; Gaz. vol. 147; p. 935.  
 Christensen, H., Seattle, Wash. Electric-lamp-socket retainer. No. 938,213; Oct. 26; Sp. p. 5473; Gaz. vol. 147; p. 936.  
 Christensen, H., Byron, Cal. Disk harrow. No. 940,923; Nov. 23; Sp. p. 5476; Gaz. vol. 148; p. 928.  
 Christensen, H., assignor to Miller Pasteurizing Machine Company, Canton, Ohio. Apparatus for pasteurizing or sterilizing liquids. No. 916,532; Mar. 30; Sp. p. 5862; Gaz. vol. 140; p. 1052.  
 Christensen, J. S., Norway Lake, Minn. Tank-heater and feed-cooker. No. 922,457; May 25; Sp. p. 4851; Gaz. vol. 142; p. 866.  
 Christensen, M., assignor of one-half to F. J. Greene, Racine, Wis. Book-stitching apparatus. No. 937,925; Oct. 26; Sp. p. 4850; Gaz. vol. 147; p. 838.  
 Christensen, N., Jr. (See Rhett, J. M., assignor.)  
 Christensen, N. A. (See Waite, H. C., assignor.)  
 Christensen, N. A., Milwaukee, Wis. Compressor-valve. No. 914,699; Mar. 9; Sp. p. 2207; Gaz. vol. 140; p. 370.  
 Christensen, N. A., Milwaukee, Wis. Forming herring-bone gears. No. 914,700; Mar. 9; Sp. p. 2209; Gaz. vol. 140; p. 371.  
 Christensen, N. A., Milwaukee, Wis. Compound air-compressor. No. 938,742; Nov. 2; Sp. p. 629; Gaz. vol. 148; p. 100.  
 Christensen, P. M. (See Pedersen and Christensen.)  
 Christensen, P. M., Belmont, assignor to American Telephone and Telegraph Company, Boston, Mass. Telephone-key and means for actuating the same. No. 940,673; Nov. 23; Sp. p. 4939; Gaz. vol. 148; p. 845.  
 Christenson, A. L., Stockholm, Sweden. Device for facilitating reinsection of disks forming liners of centrifugal drums. No. 944,074; Dec. 21; Sp. p. 4389; Gaz. vol. 149; p. 756.  
 Christenson, C. J., Kellogg, Iowa. Valve. No. 912,073; Feb. 9; Sp. p. 2159; Gaz. vol. 139; p. 373.  
 Christian, E. L., El Paso, Tex. Seal-lock. No. 919,539; Apr. 27; Sp. p. 5553; Gaz. vol. 141; p. 954.  
 Christian, G. B. (See Stone, J. M., assignor.)  
 Christian, H. W., Longbeach, Cal. Heater for water-bottles. No. 925,681; June 22; Sp. p. 5404; Gaz. vol. 143; p. 946.  
 Christian, K., Wächtersbach, Germany. Device for drawing and pressing lids or covers having beaded rims. No. 936,603; Oct. 12; Sp. p. 2114; Gaz. vol. 147; p. 351.  
 Christian, T. W., Chicago, Ill. Coupling. No. 911,645; Feb. 9; Sp. p. 1243; Gaz. vol. 139; p. 234.  
 Christians, H. R., Brooklyn, N. Y. Inkstand. No. 941,308; Nov. 23; Sp. p. 6311; Gaz. vol. 148; p. 1056.  
 Christiansen, C., Gelsenkirchen, Germany. Pneumatic tool. No. 939,803; Nov. 9; Sp. p. 2992; Gaz. vol. 148; p. 492.  
 Christiansen, J. (See Schröder and Christiansen.)  
 Christiansen, L., Lynn, Mass. Elevator-door guard. No. 925,456; June 22; Sp. p. 4957; Gaz. vol. 143; p. 875.  
 Christianson, A., Butler, assignor to Forged Steel Wheel Company, Pittsburg, Pa. Forging-press. No. 922,392; May 18; Sp. p. 4711; Gaz. vol. 142; p. 816.  
 Christianson, A., Butler, assignor to Standard Steel Car Company, Pittsburg, Pa. Motor-truck. No. 925,682; June 22; Sp. p. 5406; Gaz. vol. 143; p. 947.  
 Christianson, A. W. (See Soss and Christianson.)  
 Christianson, C., Bowbells, N. D. Plow attachment. No. 930,266; Aug. 3; Sp. p. 1307; Gaz. vol. 145; p. 216.  
 Christianson, H., Upham, N. D. Shock-carrier. No. 927,114; July 6; Sp. p. 872; Gaz. vol. 144; p. 140.  
 Christie, E. W., Sewaren, N. J. Pump. No. 930,838; Aug. 10; Sp. p. 2491; Gaz. vol. 145; p. 431.  
 Christie, W. H. M., Greenwich, England. Range-finder. No. 928,902; July 20; Sp. p. 4555; Gaz. vol. 144; p. 793.  
 Christie, W. R. (See Kane and Christie.)  
 Christin, M. D., Liberty, N. Y. Egg-beater. No. 938,369; Oct. 26; Sp. p. 5821; Gaz. vol. 147; p. 988.  
 Christl, J. V., assignor to Taylor & Co., Newark, N. J. Safety-catch for jewelry. No. 937,968; Oct. 26; Sp. p. 4979; Gaz. vol. 147; p. 858.  
 Christman, E. A., Baltimore, Md. Shirt-collar. No. 918,284; Apr. 13; Sp. p. 2693; Gaz. vol. 141; p. 477.  
 Christman, F. J., Syracuse, N. Y. Clamp. No. 937,766; Oct. 26; Sp. p. 4520; Gaz. vol. 147; p. 784.  
 Christodoule, G., Paris, France. Hernia-truss. No. 923,625; June 1; Sp. p. 1149; Gaz. vol. 143; p. 176.  
 Christoph, E. A., Chicago, Ill. Wall-rack. No. 926,468; June 29; Sp. p. 7044; Gaz. vol. 143; p. 1242.  
 Christoph, G. W., assignor to Sterling Blower and Pipe Mfg. Co., Hartford, Conn. Separator. No. 927,712; July 13; Sp. p. 2103; Gaz. vol. 144; p. 365.  
 Christoph, G. W., assignor to Sterling Blower & Pipe Manufacturing Company, Hartford, Conn. Separator. No. 934,042; Sept. 14; Sp. p. 2176; Gaz. vol. 146; p. 360.  
 Christy, H. L. (See Christy, J. W. and H. L.)  
 Christy, J. (See Denmead, J. W., assignor.)  
 Christy, J., Akron, Ohio. Wheel-tire. No. 914,551; Mar. 9; Sp. p. 1891; Gaz. vol. 140; p. 322.  
 Christy, J. F., Sheridan, Pa. Testing-plug for sewer-traps. No. 939,804; Nov. 9; Sp. p. 2994; Gaz. vol. 148; p. 493.  
 Christy, J. W. and H. L., Philadelphia, Pa. Dust-pan. No. 910,116; Jan. 19; Sp. p. 3380; Gaz. vol. 138; p. 621.  
 Christy, T. W., New York, N. Y. Flushing apparatus. No. 939,123; Nov. 2; Sp. p. 1427; Gaz. vol. 148; p. 232.  
 Chrysler, F. (See Van Zile and Chrysler.)  
 Chrysler, W. L., and J. W. Kays, Eugene, Oreg. Pitman connection. No. 921,363; May 11; Sp. p. 2624; Gaz. vol. 142; p. 451.  
 Chrysler, W. L., and J. W. Kays, Eugene, Oreg. Pitman connection. No. 935,140; Sept. 28; Sp. p. 4367; Gaz. vol. 146; p. 779.  
 Chrysler, W. L., W. J. Luther, and J. W. Kays, Eugene, Oreg. Car-fender. No. 918,733; Apr. 20; Sp. p. 3692; Gaz. vol. 141; p. 655.  
 Chubb, A., and C. R. Mullen, Cincinnati, Ohio. Valve-gear. No. 941,189; Nov. 23; Sp. p. 6065; Gaz. vol. 148; p. 1018.  
 Chubbuck, W., Arverne, N. Y. Powder-package. No. 929,553; July 27; Sp. p. 5880; Gaz. vol. 144; p. 1033.  
 Church, A. E., New Britain, Conn. Reamer. No. 941,912; Nov. 30; Sp. p. 7615; Gaz. vol. 148; p. 1282.  
 Church, A. E., assignor to Union Manufacturing Company, New Britain, Conn. Rotary tool-head. No. 928,180; July 13; Sp. p. 3046; Gaz. vol. 144; p. 520.  
 Church, A. S., Bath, Mich. Shaft-aligner. No. 915,552; Mar. 16; Sp. p. 3907; Gaz. vol. 140; p. 676.  
 Church Differential Car Wheel Company. (See Church, W. A., assignor.)  
 Church, E. D., assignor to American Sandstone Brick Machinery Company, Saginaw, Mich. Safety appliance for connecting-rods. No. 917,924; Apr. 13; Sp. p. 1949; Gaz. vol. 141; p. 353.  
 Church, E. S., assignor to National Cash Register Company, Dayton, Ohio. Cash-register. No. 935,640; Oct. 5; Sp. p. 24; Gaz. vol. 147; p. 6.  
 Church, F. F., assignor to Eastman Kodak Company, Rochester, N. Y. Developing apparatus. No. 917,002; Apr. 6; Sp. p. 75; Gaz. vol. 141; p. 17.  
 Church, H. B. (See Farmer and Church.)  
 Church, J., New York, N. Y. Barber's account-check. No. 939,979; Nov. 16; Sp. p. 3377; Gaz. vol. 148; p. 582.  
 Church, J. B., Washington, D. C., assignor to Lanston Monotype Machine Company, New York, N. Y. Controller composing-machine. No. 915,553; Mar. 16; Sp. p. 3908; Gaz. vol. 140; p. 677.  
 Church, L. H., Stamford, Conn. Outlet-box. No. 934,995; Sept. 28; Sp. p. 4072; Gaz. vol. 146; p. 730.  
 Church, W. A., assignor to Church Differential Car Wheel Company, Los Angeles, Cal. Car-wheel. No. 935,962; Oct. 5; Sp. p. 769; Gaz. vol. 147; p. 115.  
 Church, W. A., assignor to Electro-Vibrating Couch Company, Los Angeles, Cal. Electro-vibratory couch. No. 941,673; Nov. 30; Sp. p. 7088; Gaz. vol. 148; p. 1198.  
 Church, W. B., and J. H. McCall, Minneapolis, Minn. Safety hitching device. No. 931,844; Aug. 24; Sp. p. 4697; Gaz. vol. 145; p. 814.  
 Church, W. G., assignor of one-half to W. F. Gubitz, Hartford, Conn. Dental plugger. No. 916,387; Mar. 23; Sp. p. 5515; Gaz. vol. 140; p. 979.  
 Church, W. W., Rock Island, Ill. Clinker-tongs. No. 913,619; Feb. 23; Sp. p. 5376; Gaz. vol. 139; p. 950.  
 Churchill, H. H. (See Bogges, A. G., assignor.)  
 Churchill, H. R., Buffalo, N. Y. Water-heater. No. 941,618; Nov. 30; Sp. p. 6971; Gaz. vol. 148; p. 1179.  
 Churchill, J. A., Council Bluffs, Iowa. Window-shade fixture. No. 927,947; July 13; Sp. p. 2601; Gaz. vol. 144; p. 443.  
 Churchill, W., and M. J. O'Neil, Janesville, Wis. Rail-tie. No. 941,913; Nov. 30; Sp. p. 7616; Gaz. vol. 148; p. 1283.  
 Chuse, J. F., Mattoon, Ill. Steam-engine. No. 912,991; Feb. 23; Sp. p. 4071; Gaz. vol. 139; p. 738.

*Alphabetical list of patentees—Continued.*

- Chute, H. O., Cleveland, Ohio. Making acetates. No. 939,980; Nov. 16; Sp. p. 3379; Gaz. vol. 148; p. 582.
- Cibulas, S. E., Bridgeport, Conn. Sash-operating mechanism. No. 941,343; Nov. 23; Sp. p. 6368; Gaz. vol. 148; p. 1066.
- Ciervo, M., New York, N. Y. Tailor's measure. No. 927,948; July 13; Sp. p. 2602; Gaz. vol. 144; p. 443.
- Cihak, A. L., Waterloo, Iowa. Gas apparatus. No. 911,572; Feb. 9; Sp. p. 1070; Gaz. vol. 139; p. 209.
- Cincinnati Butchers Supply Company. (See Lawson, J. F., assignor.)
- Cincinnati Chuck Company. (See Kern, A. P., assignor.)
- Cincinnati Lathe & Tool Company. (See Perrine, J. R., assignor.)
- Cincinnati Milling Machine Company. (See De Leeuw, A. L., assignor.)
- Cincinnati Planer Company. (See Meier and Langen, assignors.)
- Cincinnati Shaper Company. (See Anderson, L. W., assignor.)
- Cincinnati Shaper Company. (See Murray, A. R., assignor.)
- Cinnamon, S. A., Marshall county, Ill. Hook and eye. No. 928,585; July 20; Sp. p. 3920; Gaz. vol. 144; p. 685.
- Ciri, S., Rome, Italy. Car-fender for tramways and the like. No. 944,075; Dec. 21; Sp. p. 4392; Gaz. vol. 149; p. 756.
- Citizens Loan Trust & Savings Company, executor and trustee. (See Loughman, G. W., assignor.)
- City Trust Company. (See Scales, W. S., assignor.)
- Clack, F. P. (See Sant, Cooper, and Clack.)
- Claessen, C. P. H., Wilmersdorf, near Berlin, Germany. Smokeless gunpowder. No. 909,546; Jan. 12; Sp. p. 2248; Gaz. vol. 138; p. 399.
- Claessen, C. P. H., Berlin, Germany. Gunpowder. No. 914,113; Mar. 2; Sp. p. 980; Gaz. vol. 140; p. 155.
- Claff, M. B., Randolph, Mass. Shipping-box. No. 941,438; Nov. 30; Sp. p. 6610; Gaz. vol. 148; p. 1120.
- Cladfin, C. A., Medford, Mass. Device for delivering gaseous fluid under pressure. No. 913,260; Feb. 23; Sp. p. 4617; Gaz. vol. 139; p. 828.
- Cladfin, W. B., Kansas City, Mo. Needle-holder for talking-machines. No. 917,925; Apr. 13; Sp. p. 1951; Gaz. vol. 141; p. 354.
- Clagett, G. M., Boonton, N. J. Bag-holder. No. 915,740; Mar. 23; Sp. p. 4324; Gaz. vol. 140; p. 769.
- Clagett, M. H., *et al.* (See St. Hoer, S. S., assignor.)
- Clagett, W. S., *et al.* (See St. Hoer, S. S., assignor.)
- Clamer, G. H., Philadelphia, Pa. Metal coating. No. 909,869; Jan. 19; Sp. p. 2901; Gaz. vol. 138; p. 536.
- Clancy, J. M., Chicago, Ill. Air-actuated street-car fender. No. 941,497; Nov. 30; Sp. p. 6731; Gaz. vol. 148; p. 1141.
- Clancy, J. R., Syracuse, N. Y. Hose-clamp. No. 919,127; Apr. 20; Sp. p. 4480; Gaz. vol. 141; p. 782.
- Clanton, J. B., Charlotte, N. C. Apparatus for cooling water. No. 911,207; Feb. 2; Sp. p. 362; Gaz. vol. 139; p. 63.
- Clapham, G., Hamilton, Ontario, Canada. Composition of matter for the finishing coat on wainscoting, walls, and the like. No. 941,498; Nov. 30; Sp. p. 6732; Gaz. vol. 148; p. 1141.
- Clapp, A. R., Mackinaw, Mich. Cradle. No. 919,320; Apr. 27; Sp. p. 5069; Gaz. vol. 141; p. 880.
- Clapp, C. C. (See Jacobs, W. S., assignor.)
- Clapp-Eastham Company. (See Eastham, M., assignor.)
- Clapp, F. M., assignor to Ohio Varnish Company, Cleveland, Ohio. Graining compound. No. 909,847; Jan. 12; Sp. p. 2836; Gaz. vol. 138; p. 500.
- Clapp, J. F., Los Angeles, Cal. Alloy. No. 909,283; Jan. 12; Sp. p. 1742; Gaz. vol. 138; p. 313.
- Clapp, J. W., Avon, Mass. Means for attaching plates to fabrics. No. 919,695; Apr. 27; Sp. p. 5874; Gaz. vol. 141; p. 1008.
- Clardy, S. B., Ackerman, Miss. Drum harrow. No. 942,376; Dec. 7; Sp. p. 719; Gaz. vol. 149; p. 117.
- Claremont, E. A. (See Stratton and Claremont.)
- Clarine Company. (See Schultze, C. W., assignor.)
- Clark, A., Macon, Ga. Banking-machine. No. 939,472; Nov. 9; Sp. p. 2286; Gaz. vol. 148; p. 378.
- Clark, A. A., Baltimore, Md. Means for igniting and controlling vehicle-lamps. No. 933,694; Sept. 7; Sp. p. 1495; Gaz. vol. 146; p. 225.
- Clark, A. C., Chicago, Ill. Fountain-spittoon. No. 923,946; June 8; Sp. p. 1866; Gaz. vol. 143; p. 311.
- Clark, A. G., Schenectady, N. Y., assignor to General Electric Company. Semaphore-signal. No. 917,003; Apr. 6; Sp. p. 77; Gaz. vol. 141; p. 18.
- Clark, A. H., Denver, Colo., assignor to one-half to F. W. Clark. Chair. No. 920,542; May 4; Sp. p. 913; Gaz. vol. 142; p. 147.
- Clark, A. J. (See Oestreicher and Clark.)
- Clark, A. L., Dubuque, Iowa. Truck. No. 921,798; May 18; Sp. p. 3511; Gaz. vol. 142; p. 623.
- Clark, A. L., Dubuque, Iowa. Truck. No. 921,799; May 18; Sp. p. 3512; Gaz. vol. 142; p. 625.
- Clark, A. M., Marshalltown, Iowa. Railway-truck. No. 922,750; May 25; Sp. p. 5464; Gaz. vol. 142; p. 961.
- Clark, A. R. (See Ridley and Clark.)
- Clark, A. R., Indianola, Nebr. Oil-can. No. 921,085; May 11; Sp. p. 2026; Gaz. vol. 142; p. 356.
- Clark, A. R., Petoskey, Mich. Damper and flue-ventilator. No. 926,174; June 29; Sp. p. 6473; Gaz. vol. 143; p. 1146.
- Clark, A. W., Conshohocken, Pa., assignor to Johnson & Johnson, New Brunswick, N. J. Manufacture of surgical ligatures. No. 923,768; June 1; Sp. p. 1442; Gaz. vol. 143; p. 224.
- Clark, B. F., assignor to Standard Optical Company, Geneva, N. Y. Lens-grinding machine. No. 927,949; July 13; Sp. p. 2604; Gaz. vol. 144; p. 444.
- Clark, B. F., assignor to Standard Optical Company, Geneva, N. Y. Instrument for positioning lenses. No. 944,846; Dec. 28; Sp. p. 6079; Gaz. vol. 149; p. 1045.
- Clark, C., Boissevain, Manitoba, Canada. Trap. No. 938,743; Nov. 2; Sp. p. 632; Gaz. vol. 148; p. 100.
- Clark, C. A., Hartford, assignor to Trumbull Electric Manufacturing Company, Plainville, Conn. Indicator for switches. No. 934,421; Sept. 14; Sp. p. 2928; Gaz. vol. 146; p. 489.
- Clark, C. A., Hartford, assignor to Trumbull Electric Manufacturing Company, Plainville, Conn. Switch-indicator. No. 943,914; Dec. 21; Sp. p. 4053; Gaz. vol. 149; p. 702.
- Clark, C. B., New Albany, Ind., assignor to B. F. Avery & Sons. Plow. No. 909,848; Jan. 12; Sp. p. 2836; Gaz. vol. 138; p. 500.
- Clark, C. B., Bangor, Me. Manufacturing wood-pulp. No. 927,950; July 13; Sp. p. 2611; Gaz. vol. 144; p. 444.
- Clark, C. B., Bangor, Me. Reclaiming apparatus for pulp-mills. No. 927,951; July 13; Sp. p. 2613; Gaz. vol. 144; p. 445.
- Clark, C. C., Stoughton, Wis. Vehicle-reach. No. 934,595; Sept. 21; Sp. p. 3258; Gaz. vol. 146; p. 568.
- Clark, C. D., Waterbury, Conn. Attachment for bedsteads. No. 943,217; Dec. 14; Sp. p. 2548; Gaz. vol. 149; p. 432.
- Clark, C. E., Salina, Kans. Folding crate. No. 928,586; July 20; Sp. p. 3921; Gaz. vol. 144; p. 685.
- Clark, C. F., Chicago, Ill. Hat-frame former. No. 918,825; Apr. 20; Sp. p. 3880; Gaz. vol. 141; p. 684.
- Clark, C. H., Crafton, Pa. Loose punch. No. 915,659; Mar. 16; Sp. p. 4150; Gaz. vol. 140; p. 716.
- Clark, C. H., Crafton, Pa. Lining for box-cars. No. 918,965; Apr. 20; Sp. p. 4188; Gaz. vol. 141; p. 732.
- Clark, C. H., Crafton, Pa. Dump-car. No. 938,976; Nov. 2; Sp. p. 1138; Gaz. vol. 148; p. 182.
- Clark, C. H., Crafton, Pa. Dump-car. No. 939,588; Nov. 9; Sp. p. 2529; Gaz. vol. 148; p. 417.
- Clark, C. H., Crafton, Pa. Ore dump-car. No. 944,232; Dec. 21; Sp. p. 4701; Gaz. vol. 149; p. 806.
- Clark, C. H., Rockton, Ill. Figure toy. No. 932,962; Aug. 31; Sp. p. 7015; Gaz. vol. 145; p. 1206.
- Clark, C. H., Columbus, Ohio. Machine for punching holes in metal plates. No. 939,185; Nov. 2; Sp. p. 1573; Gaz. vol. 148; p. 255.
- Clark, C. K., Pulaski, N. Y. Hot-air register. No. 914,791; Mar. 9; Sp. p. 2394; Gaz. vol. 140; p. 402.
- Clark, C. M. (See McCauley, A. J., assignor.)
- Clark, C. M. (See Shallenberger, C. S., assignor.)
- Clark, C. P., Chattanooga, Tenn. Cuff-holder. No. 908,745; Jan. 5; Sp. p. 672; Gaz. vol. 138; p. 104.
- Clark, C. R. (See McLean, Lyons, and Clark.)
- Clark, C. T. (See Farren and Clark.)
- Clark, C. W., Portland, Oreg. Molding-flask connection. No. 915,270; Mar. 16; Sp. p. 3340; Gaz. vol. 140; p. 583.
- Clark, C. W., Sikeston, Mo. Yielding concave for threshers. No. 918,285; Apr. 13; Sp. p. 2694; Gaz. vol. 141; p. 477.
- Clark, C. W., Mishawaka, Ind. Mixing-machine. No. 937,359; Oct. 19; Sp. p. 3660; Gaz. vol. 147; p. 630.
- Clark, C. W., assignor to E. I. Horsman Co., New York, N. Y. Automaton. No. 916,105; Mar. 23; Sp. p. 5002; Gaz. vol. 140; p. 886.
- Clark, C. W., assignor to E. I. Horsman Co., New York, N. Y. Mechanical toy. No. 921,364; May 11; Sp. p. 2626; Gaz. vol. 142; p. 452.
- Clark, D. P. (See Lint, A., assignor.)
- Clark, D. P., Dayton, Ohio. Locomotive toy. No. 919,540; Apr. 27; Sp. p. 5556; Gaz. vol. 141; p. 955.
- Clark, D. S., Detroit, Mich. Drawing instrument. No. 924,734; June 15; Sp. p. 3524; Gaz. vol. 143; p. 605.
- Clark Dredge Manufacturing Company. (See Clark, H. J., assignor.)
- Clark, E. A., Chicago, Ill. Extensible supporting device. No. 909,990; Jan. 19; Sp. p. 3147; Gaz. vol. 138; p. 581.
- Clark, E. H. (See Butler, Briggs, and Clark.)
- Clark, E. J., Glendive, Mont. Face-bleach. No. 920,824; May 4; Sp. p. 1481; Gaz. vol. 142; p. 239.
- Clark, E. S., *et al.* (See Driskill, W. S., assignor.)
- Clark, E. W. (See Oden, W. F., assignor.)
- Clark, E. W., Los Angeles, Cal. Water-tube boiler. No. 943,139; Dec. 14; Sp. p. 2396; Gaz. vol. 149; p. 408.
- Clark, F., New York, N. Y. Ball-cock. No. 910,171; Jan. 19; Sp. p. 3500; Gaz. vol. 138; p. 640.
- Clark, F. A., Fremont, Nebr. Metal roof-covering. No. 924,144; June 8; Sp. p. 2271; Gaz. vol. 143; p. 375.



*Alphabetical list of patentees—Continued.*

- Clark, F. J., assignor to Eastman Machine Company, Buffalo, N. Y. Cloth-cutting machine. No. 910,172; Jan. 19; Sp. p. 3501; Gaz. vol. 138; p. 640.
- Clark, F. W. (See Clark, A. H., assignor.)
- Clark, G., assignor to Economic Specialty Company, Chicago, Ill. Pipe-fitting. No. 924,039; June 8; Sp. p. 2050; Gaz. vol. 143; p. 341.
- Clark, G. A., assignor to Keasbey & Mattison Company, Ambler, Pa. Multiple spooler. No. 916,388; Mar. 23; Sp. p. 5517; Gaz. vol. 140; p. 980.
- Clark, G. B., Rushville, Ind. Rural-mail carrier. No. 927,489; July 13; Sp. p. 1611; Gaz. vol. 144; p. 290.
- Clark, G. E., *et al.* (See Parsons, M., assignor.)
- Clark, G. F. (See McCord, Clark, and Hall.)
- Clark, G. R., assignor to Clark & Harvey, Dayton, Ohio. Electric time-switch. No. 944,319; Dec. 28; Sp. p. 4900; Gaz. vol. 149; p. 864.
- Clark, H. H., Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 912,074; Feb. 9; Sp. p. 2160; Gaz. vol. 139; p. 373.
- Clark, H. J., assignor to Clark Dredge Manufacturing Company, Chicago, Ill. Suction-mouthpiece for dredges. No. 909,062; Jan. 5; Sp. p. 1281; Gaz. vol. 138; p. 206.
- Clark, H. J., assignor to Clark Dredge Manufacturing Company, Chicago, Ill. Gold-dredge. No. 909,063; Jan. 5; Sp. p. 1283; Gaz. vol. 138; p. 206.
- Clark, H. O., New York, N. Y. Vehicle-wheel. No. 941,976; Nov. 30; Sp. p. 7739; Gaz. vol. 148; p. 1304.
- Clark, H. S., and R. Netter, New York, N. Y., assignors to General Pump Appliance Company. Device for refacing valve-seats. No. 908,746; Jan. 5; Sp. p. 673; Gaz. vol. 138; p. 105.
- Clark, H. W., St. Louis, Mo. Lumber-stacker. No. 944,946; Dec. 28; Sp. p. 6269; Gaz. vol. 149; p. 1077.
- Clark & Harvey. (See Clark, G. R., assignor.)
- Clark, I. D. (See Tawls, A., assignor.)
- Clark, J., Medina, N. Y. Rotary engine. No. 935,641; Oct. 5; Sp. p. 27; Gaz. vol. 147; p. 6.
- Clark, J., assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Pipe-coupling. No. 932,963; Aug. 31; Sp. p. 7018; Gaz. vol. 145; p. 1207.
- Clark, J. A., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Needle-motion for pile-fabric looms. No. 912,648; Feb. 16; Sp. p. 3351; Gaz. vol. 139; p. 602.
- Clark, J. A., assignor to G. I. Daniels, Los Angeles, Cal. Stand. No. 909,547; Jan. 12; Sp. p. 2249; Gaz. vol. 138; p. 399.
- Clark, J. B., Cleveland, Ohio. Handling slag, cinder, &c. No. 926,242; June 29; Sp. p. 6627; Gaz. vol. 143; p. 1169.
- Clark, J. B., Cleveland, Ohio. Slag-net. No. 926,719; June 29; Sp. p. 7533; Gaz. vol. 143; p. 1325.
- Clark, J. C., Atlanta, Ga. Pulverizing-mill. No. 940,129; Nov. 16; Sp. p. 3734; Gaz. vol. 148; p. 636.
- Clark, J. C., Atlanta, Ga. Grinding-mill. No. 940,513; Nov. 16; Sp. p. 4599; Gaz. vol. 148; p. 767.
- Clark, J. D. (See Worley, G. D., assignor.)
- Clark, J. D., Watertown, Mass. Tree-protector. No. 916,106; Mar. 23; Sp. p. 5004; Gaz. vol. 140; p. 886.
- Clark, J. F., Christopher, Ill. Automatic electric interlock system. No. 924,735; June 15; Sp. p. 3525; Gaz. vol. 143; p. 606.
- Clark, J. H., Schenectady, N. Y., assignor to General Electric Company. Pumping system for hydrostatic apparatus. No. 920,825; May 4; Sp. p. 1482; Gaz. vol. 142; p. 239.
- Clark, J. J., Sagola, Mich. Bank-check, money-order, and the like. No. 915,554; Mar. 16; Sp. p. 3926; Gaz. vol. 140; p. 677.
- Clark, J. W. (See Brenner, J., assignor.)
- Clark, L., Detroit, Mich. Vehicle-wheel designated as double safety bolster-wheel. No. 919,825; Apr. 27; Sp. p. 6163; Gaz. vol. 141; p. 1051.
- Clark, L., Detroit, Mich. Railway-track. No. 927,830; July 13; Sp. p. 2341; Gaz. vol. 144; p. 463.
- Clark, L., Greenfield, Ind. Grain-cutter. No. 942,614; Dec. 7; Sp. p. 1215; Gaz. vol. 149; p. 193.
- Clark, L. S. (See Wright, J. D., assignor.)
- Clark, M., Chicago, Ill. Duplex tracker-board for automatic musical instruments. No. 915,018; Mar. 9; Sp. p. 2799; Gaz. vol. 140; p. 473.
- Clark, M., Chicago, Ill. Duplex tracker-board for automatic musical instruments or players. No. 921,590; May 11; Sp. p. 3053; Gaz. vol. 142; p. 544.
- Clark, M., Chicago, Ill. Duplex tracker-board for automatic musical instruments. No. 921,639; May 11; Sp. p. 3179; Gaz. vol. 142; p. 544.
- Clark, M. C., Brookline, Mass. Cutlery-scourer. No. 921,086; May 11; Sp. p. 2027; Gaz. vol. 142; p. 357.
- Clark, M. C., Providence, R. I., assignor to Marvel Rubber Company. Article of vulcanized footwear. No. 926,387; June 29; Sp. p. 6899; Gaz. vol. 143; p. 1214.
- Clark, N. E., Plainville, Conn. Slitting mechanism. No. 930,349; Aug. 10; Sp. p. 1466; Gaz. vol. 145; p. 268.
- Clark, N. E., Plainville, Conn. Expanded metal fabric. No. 930,350; Aug. 10; Sp. p. 1468; Gaz. vol. 145; p. 268.
- Clark, O. A., Newark, N. J. Safety-razor. No. 918,126; Apr. 13; Sp. p. 2373; Gaz. vol. 141; p. 425.
- Clark, O. A., Newark, N. J. Safety-razor. No. 933,020; Aug. 31; Sp. p. 7131; Gaz. vol. 145; p. 1225.
- Clark, P. L., Baltimore, Md. Luminous sign. No. 931,036; Aug. 17; Sp. p. 2955; Gaz. vol. 145; p. 523.
- Clark, P. M., *et al.* (See Brost, C. A., assignor.)
- Clark, R., Minneapolis, Minn. Furniture-supporting foot. No. 918,009; Apr. 13; Sp. p. 2138; Gaz. vol. 141; p. 385.
- Clark, R. G., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 925,753; June 22; Sp. p. 5564; Gaz. vol. 143; p. 970.
- Clark, R. M., Webb City, Mo. Eccentric. No. 920,543; May 4; Sp. p. 915; Gaz. vol. 142; p. 147.
- Clark, R. M., Webb City, Mo. Ore-separator. No. 922,259; May 18; Sp. p. 4462; Gaz. vol. 142; p. 774.
- Clark, R. W., Fremont, Ohio. Dimmer for headlights. No. 923,769; June 1; Sp. p. 1443; Gaz. vol. 143; p. 224.
- Clark, R. W., assignor of one-half to himself and one-half to A. G. Kantmann, Nashville, Tenn. Locomotive ash-pan. No. 938,824; Nov. 2; Sp. p. 805; Gaz. vol. 148; p. 130.
- Clark, S. (See Percival, C. F., assignor.)
- Clark, S. J., Auburn, Ill. Cigar-maker's table. No. 936,411; Oct. 12; Sp. p. 1699; Gaz. vol. 147; p. 287.
- Clark, S. W., Cincinnati, Ohio. Wall-pocket for sleeping-car berths. No. 914,701; Mar. 9; Sp. p. 2210; Gaz. vol. 140; p. 371.
- Clark, T. (See Singer and Clark.)
- Clark, T., and I. Vlasto, Stockton Heath, England. Electrical switch. No. 913,810; Mar. 2; Sp. p. 277; Gaz. vol. 140; p. 47.
- Clark, T. E., Detroit, Mich. Lighting attachment for show-cases. No. 918,966; Apr. 20; Sp. p. 4191; Gaz. vol. 141; p. 732.
- Clark, T. J. (See Sweet and Clark.)
- Clark, T. R., Bradford, Pa. Station-indicator. No. 912,992; Feb. 23; Sp. p. 4073; Gaz. vol. 139; p. 739.
- Clark, W., Junee, New South Wales, Australia. Exchanger in tablet systems of railway-traffic control. No. 930,042; Aug. 3; Sp. p. 883; Gaz. vol. 145; p. 142.
- Clark, W. C., Keewatin, Ontario, Canada. Electric-light key-socket. No. 921,800; May 18; Sp. p. 3514; Gaz. vol. 142; p. 624.
- Clark, W. F. (See Mortenson, H., assignor.)
- Clark, W. G. (See Letts, J. S., assignor.)
- Clark, W. G., New York, N. Y. Insulator. No. 918,127; Apr. 13; Sp. p. 2374; Gaz. vol. 141; p. 425.
- Clark, W. G., Geelong, Victoria, Australia. Copperizing iron. No. 932,964; Aug. 31; Sp. p. 7020; Gaz. vol. 145; p. 1207.
- Clark, W. H., Elk City, Okla. Gate. No. 935,588; Sept. 28; Sp. p. 5274; Gaz. vol. 146; p. 924.
- Clark, W. J., Britton, Mich. Switch. No. 927,115; July 6; Sp. p. 874; Gaz. vol. 144; p. 140.
- Clark, W. L., New York, N. Y. Case for shaving appliances. No. 942,483; Dec. 7; Sp. p. 956; Gaz. vol. 149; p. 154.
- Clark, W. L., New York, N. Y. Razor-case. No. 942,484; Dec. 7; Sp. p. 958; Gaz. vol. 149; p. 154.
- Clark, W. M., Toronto, Ontario, Canada. Chair. No. 934,285; Sept. 14; Sp. p. 2662; Gaz. vol. 146; p. 442.
- Clark, W. R. (See Baker, Loucks, and Clark.)
- Clark, W. S. (See Leighton, H., assignor.)
- Clark, W. W., Buffalo, N. Y. Hanger for sliding doors. No. 913,261; Feb. 23; Sp. p. 4621; Gaz. vol. 139; p. 829.
- Clark, W. W., Minneapolis, Minn. Apparatus for producing reinforced pulp-board. No. 921,674; May 18; Sp. p. 3275; Gaz. vol. 142; p. 582.
- Clarke, A., Folsom, W. Va., assignor to South Penn Oil Company, Pittsburg, Pa. Spark-plug. No. 930,351; Aug. 10; Sp. p. 1469; Gaz. vol. 145; p. 269.
- Clarke, A. F., Butler, Pa. Explosive-engine. No. 929,554; July 27; Sp. p. 5881; Gaz. vol. 144; p. 1033.
- Clarke, A. F., Butler, Pa. Ignition device for explosive-engines. No. 939,805; Nov. 9; Sp. p. 2996; Gaz. vol. 148; p. 493.
- Clarke, A. F., Seattle, Wash. Railway-tie. No. 930,157; Aug. 3; Sp. p. 1127; Gaz. vol. 145; p. 183.
- Clarke, C. M., Pittsburg, assignor to Hebb Coke Drawer Company, Uniontown, Pa. Coke-drawing apparatus. No. 923,139; June 1; Sp. p. 25; Gaz. vol. 143; p. 6.
- Clarke, C. M., Pittsburg, assignor to Hebb Coke Drawer Company, Uniontown, Pa. Coke-drawing apparatus. No. 923,140; June 1; Sp. p. 27; Gaz. vol. 143; p. 6.
- Clarke, Chapman & Company. (See Robson, J., assignor.)
- Clarke, E. S. (See Marcuse and Clarke.)
- Clarke, H. B., Highland Park, Ill. Section-insulator. No. 931,385; Aug. 17; Sp. p. 3740; Gaz. vol. 145; p. 645.
- Clarke, H. L. (See Bonson and Clarke.)
- Clarke, J. L., Leamington, England. Drinking-tube. No. 942,306; Dec. 7; Sp. p. 595; Gaz. vol. 149; p. 94.
- Clarke, L. H., Camden, N. J. Coin-mailing card. No. 912,446; Feb. 16; Sp. p. 2932; Gaz. vol. 139; p. 532.

*Alphabetical list of patentees—Continued.*

- Clarke, M. S., Houston, Tex., assignor of one-half to E. L. Adreon, Jr., St. Louis, Mo. Combined tie-plate and rail-antireepeer. No. 942,307; Dec. 7; Sp. p. 597; Gaz. vol. 149; p. 94.
- Clarke, W. A., assignor to Pioneer Steel Company, Rockford, Ill. Furnace. No. 943,513; Dec. 21; Sp. p. 3832; Gaz. vol. 149; p. 666.
- Clarke, W. J., and S. A. Stream, El Reno, Okla.; said Stream assignor of one-half of his right to said Clarke. Grass-cutting attachment for cars. No. 940,514; Nov. 16; Sp. p. 4602; Gaz. vol. 148; p. 768.
- Clarke, W. R., Reading, Mass. Confectioner's dipping-tray. No. 929,555; July 27; Sp. p. 5882; Gaz. vol. 144; p. 1034.
- Clarkson, A. (See Clarkson, A. R., assignor.)
- Clarkson, A. R., assignor to Mound City Duck & Rubber Company, St. Louis, Mo. Pole-brace. No. 917,249; Apr. 6; Sp. p. 598; Gaz. vol. 141; p. 103.
- Clarkson, A. R., Birmingham, Ala., assignor of four-fifths to A. Clarkson, Fall River, Mass. Humidifier. No. 921,365; May 11; Sp. p. 2629; Gaz. vol. 142; p. 452.
- Clarkson, J. P., St. Charles, Minn. Milk-can brush. No. 922,458; May 25; Sp. p. 4853; Gaz. vol. 142; p. 867.
- Clarkson, W. R., Tenino, Wash. Swivel-hook. No. 931,270; Aug. 17; Sp. p. 3493; Gaz. vol. 145; p. 605.
- Clarkson, W. R., Tenino, Wash. Ball-bearing retaining collar and cap. No. 932,247; Aug. 24; Sp. p. 5563; Gaz. vol. 145; p. 947.
- Clarkson, W. R., Tenino, Wash. Swivel. No. 933,625; Sept. 7; Sp. p. 1356; Gaz. vol. 146; p. 202.
- Clarkson, W. R., assignor to Clarkson Washer & Nut Lock Co., Inc., Tenino, Wash. Conveyer-flight. No. 919,419; Apr. 27; Sp. p. 5279; Gaz. vol. 141; p. 914.
- Clarkson Washer & Nut Lock Co. (See Clarkson, W. R., assignor.)
- Clarus, B., Liege, Belgium. Automatic pistol. No. 929,286; July 27; Sp. p. 5370; Gaz. vol. 144; p. 946.
- Clary, F. W., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of electric-circuit control. No. 926,243; June 29; Sp. p. 6628; Gaz. vol. 143; p. 1169.
- Clary, S., Carnegie, Pa. Metallic railway-tie and fastener. No. 914,792; Mar. 9; Sp. p. 2395; Gaz. vol. 140; p. 402.
- Clasen, W. F., Milwaukee, Wis. Train-pipe coupling. No. 913,811; Mar. 2; Sp. p. 279; Gaz. vol. 140; p. 47.
- Class, C. A. (See Hughes, F. J., assignor.)
- Classen, W. G., South Haven, Mich. Combination automatic extender and recliner. No. 910,642; Jan. 26; Sp. p. 4549; Gaz. vol. 138; p. 827.
- Claude, G. M. A., Paris, France. Separating oxygen from air. No. 924,428; June 8; Sp. p. 2879; Gaz. vol. 143; p. 471.
- Claudin, J. L., assignor, by mesne assignments, to Interlocking Fence Company, Morton, Ill. Wire-fence machine. No. 923,770; June 1; Sp. p. 1444; Gaz. vol. 143; p. 224.
- Claudin, J. L., assignor, by mesne assignments, to Interlocking Fence Company, Morton, Ill. Wire-fabric machine. No. 923,771; June 1; Sp. p. 1462; Gaz. vol. 143; p. 224.
- Clausen, A. C., Chicago, Ill. Gearing for washing-machines. No. 934,886; Sept. 21; Sp. p. 3838; Gaz. vol. 146; p. 666.
- Clausen, E. C., Blair, Nebr. Lock-jointed foldable draft-beam for sectional harrows. No. 927,713; July 13; Sp. p. 2104; Gaz. vol. 144; p. 365.
- Clausen, H. P., Chicago, Ill. Electrically-controlled meter system. No. 928,245; July 20; Sp. p. 3204; Gaz. vol. 144; p. 572.
- Clausen, H. P., assignor to American Electric Telephone Company, Chicago, Ill. Telephone-transmitter. No. 913,944; Mar. 2; Sp. p. 598; Gaz. vol. 140; p. 95.
- Clausen, H. P., assignor to American Electric Telephone Company, Chicago, Ill. Telephone system. No. 937,050; Oct. 19; Sp. p. 3012; Gaz. vol. 147; p. 529.
- Clausen, W. H., Luxemburg, Mo. Vehicle-wheel. No. 919,826; Apr. 27; Sp. p. 6166; Gaz. vol. 141; p. 1051.
- Clauss, F., and L. Lewissou, Berlin, Germany. Filling, storing, and discharging inflammable liquids. No. 938,977; Nov. 2; Sp. p. 1144; Gaz. vol. 148; p. 183.
- Clauss, H. (See Lorenzen, J., assignor.)
- Clauss, H., Fremont, Ohio. Pocket cigar-scissors. No. 921,801; May 18; Sp. p. 3516; Gaz. vol. 142; p. 624.
- Claussen, E. E., Hartford, Conn. Apparatus for concentrating milk. No. 915,019; Mar. 9; Sp. p. 2800; Gaz. vol. 140; p. 474.
- Claussen, E. E., Hartford, Conn. Paper-bag machine. No. 940,515; Nov. 16; Sp. p. 4605; Gaz. vol. 148; p. 768.
- Claussen, E. E., Hartford, Conn., assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine. No. 925,295; June 15; Sp. p. 4640; Gaz. vol. 143; p. 793.
- Claussen, E. E., Hartford, Conn., assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine. No. 925,296; June 15; Sp. p. 4645; Gaz. vol. 143; p. 793.
- Clawson, C. F., Mount Pleasant, Iowa. Pipe-support. No. 916,673; Mar. 30; Sp. p. 6126; Gaz. vol. 140; p. 1097.
- Clawson, L. E., San Francisco, Cal. Swimming and life-saving apparatus. No. 923,407; June 1; Sp. p. 672; Gaz. vol. 143; p. 98.
- Clawson Lock Manufacturing Company. (See Clawson, W. S., assignor.)
- Clawson, S. I., Salt Lake City, Utah. Apparatus for condensing and purifying smoke, &c. No. 922,260; May 18; Sp. p. 4464; Gaz. vol. 142; p. 774.
- Clawson, W. S., Lawrence, Kans., assignor to Clawson Lock Manufacturing Company, Kansas City, Mo. Door-lock. No. 931,567; Aug. 17; Sp. p. 4074; Gaz. vol. 145; p. 702.
- Clay, A. B., assignor to C. E. Bradbury, trustee, Scranton, Pa. Combination fly-excluder and weather-strip. No. 936,235; Oct. 5; Sp. p. 1308; Gaz. vol. 147; p. 200.
- Clay, C. M. (See Hannold, E. J., assignor.)
- Clay, F. W. H., Pittsburg, Pa. Bottle-closure. No. 938,825; Nov. 2; Sp. p. 809; Gaz. vol. 148; p. 130.
- Clay, F. W. H., Pittsburg, Pa. Steerable sled. No. 944,773; Dec. 28; Sp. p. 5913; Gaz. vol. 149; p. 1020.
- Clay, H. C., assignor to Reeves & Company, Columbus, Ind. Gang-plow. No. 911,703; Feb. 9; Sp. p. 1355; Gaz. vol. 139; p. 252.
- Clay, P., assignor of one-half to E. Wright, Gibson, La. Nut-lock. No. 922,261; May 18; Sp. p. 4465; Gaz. vol. 142; p. 775.
- Clay, W. F., Camden, N. J. Card-holder. No. 925,683; June 22; Sp. p. 5408; Gaz. vol. 143; p. 947.
- Clay, W. H., Williamsburg, Colo. Trunk-lock. No. 917,250; Apr. 6; Sp. p. 599; Gaz. vol. 141; p. 103.
- Clay, W. J., Cotton Valley, La. Reel-operated hydrant. No. 933,290; Sept. 7; Sp. p. 590; Gaz. vol. 146; p. 91.
- Claycomb, W. T., Owensboro, Ky. Crate and protector. No. 936,984; Oct. 12; Sp. p. 2862; Gaz. vol. 147; p. 478.
- Clayman, F., Rush, N. Y. Ditching-machine. No. 923,141; June 1; Sp. p. 33; Gaz. vol. 143; p. 7.
- Claypoole, W. B., assignor to E. G. Jack, Kittanning, Pa. Bull-wheel for well-rigs. No. 917,412; Apr. 6; Sp. p. 914; Gaz. vol. 141; p. 158.
- Clayton Aniline Company. (See Weizmann, C., assignor.)
- Clayton & Bentley Co. (See Clayton, W. F., assignor.)
- Clayton, F. T., Sandwich, Mass. Valve for pneumatic tires. No. 935,837; Oct. 5; Sp. p. 505; Gaz. vol. 147; p. 72.
- Clayton, N. J., Galveston, Tex. Sanitary flooring. No. 927,026; July 6; Sp. p. 677; Gaz. vol. 144; p. 109.
- Clayton, W. F., Jr., Beaver Falls, Pa. Automatic cue-chalker. No. 908,956; Jan. 5; Sp. p. 1065; Gaz. vol. 138; p. 172.
- Clayton, W. F., Atlanta, Ga., assignor to Clayton & Bentley Co. Shuttle. No. 912,935; Feb. 16; Sp. p. 3944; Gaz. vol. 139; p. 694.
- Cleal, J. P., and A. Macauley, assignors, by mesne assignments, to National Cash Register Company, Dayton, Ohio. Cash-register. No. 920,110; May 4; Sp. p. 19; Gaz. vol. 142; p. 5.
- Cleary, J. F., Chicago, Ill. Creasing-machine. No. 913,361; Feb. 23; Sp. p. 4817; Gaz. vol. 139; p. 863.
- Cleary, S. P., Philadelphia, Pa. Attachable sharp pad. No. 912,813; Feb. 16; Sp. p. 3740; Gaz. vol. 139; p. 658.
- Cleary, T. W., San Mateo, Cal. Collapsible and suspensible baby-chair. No. 930,839; Aug. 10; Sp. p. 2495; Gaz. vol. 145; p. 432.
- Cleaton, J. D., Atlanta, Ga. Type-writer cabinet. No. 936,864; Oct. 12; Sp. p. 2631; Gaz. vol. 147; p. 439.
- Cleaveland, W. M., Highlands, N. C. Package-fastener. No. 913,469; Feb. 23; Sp. p. 5036; Gaz. vol. 139; p. 900.
- Cleaver, W. (See Whitcomb and Cleaver.)
- Cleaves, E., Searsport, Me. Device for handling invalids. No. 943,003; Dec. 14; Sp. p. 2097; Gaz. vol. 149; p. 360.
- Cleavland, C. M., Wausau, Wis. Electric railway signal system. No. 925,622; June 22; Sp. p. 5282; Gaz. vol. 143; p. 928.
- Cleborne, C. J. (See Klemm, J. W., assignor.)
- Clem, R. R., Ames, Iowa. Timber-tie. No. 911,208; Feb. 2; Sp. p. 364; Gaz. vol. 139; p. 64.
- Clemens, A. B., Columbus, Ohio. Game apparatus. No. 940,555; Nov. 23; Sp. p. 5346; Gaz. vol. 148; p. 906.
- Clemens, F. J., Crestline, Ohio. Check-valve for sewers. No. 922,262; May 18; Sp. p. 4466; Gaz. vol. 142; p. 775.
- Clemens, P., and G. H. Repert, Scranton, Pa. Cutting attachment for looms. No. 944,947; Dec. 28; Sp. p. 6273; Gaz. vol. 149; p. 1078.
- Clément, C., and J. Langhard, assignors to G. Grobet, Vallorbe, Switzerland. Explosive. No. 933,060; Sept. 7; Sp. p. 47; Gaz. vol. 146; p. 9.
- Clement, C. P. (See Wiles, R., assignor.)
- Clement, E. E. (See Zahm, C. L., assignor.)
- Clement, E. E., Washington, D. C. Electric clock. No. 920,024; Apr. 27; Sp. p. 6541; Gaz. vol. 141; p. 1116.
- Clement, E. E., Washington, D. C., assignor to North Electric Company, Cleveland, Ohio. Electrical relay. No. 928,360; July 20; Sp. p. 3471; Gaz. vol. 144; p. 612.
- Clement, E. E., Washington, D. C., assignor to North Electric Company, Cleveland, Ohio. Selective apparatus for systems of communication. No. 939,186; Nov. 2; Sp. p. 1577; Gaz. vol. 148; p. 255.
- Clement, E. E., Washington, D. C., assignor to North Electric Company, Cleveland, Ohio. Selection in systems of communication. No. 939,187; Nov. 2; Sp. p. 1580; Gaz. vol. 148; p. 256.
- Clement, E. E., Washington, D. C., assignor to North Electric Company, Cleveland, Ohio. Selection in systems of communication. No. 939,188; Nov. 2; Sp. p. 1582; Gaz. vol. 148; p. 256.



*Alphabetical list of patentees—Continued.*

- Clement, F. H. (See Perkins and Clement.)
- Clement, H. E., Cheraw, S. C. Knockdown crate. No. 943,388; Dec. 14; Sp. p. 2913; Gaz. vol. 149; p. 490.
- Clement, J. F., Philadelphia, Pa. Valveless pneumatic tool. No. 928,181; July 13; Sp. p. 3047; Gaz. vol. 144; p. 520.
- Clement, R. B., assignor of one-third to A. E. Brown and one-third to J. F. Dorroh, Crayne, Ky. Screen-shovel. No. 917,251; Apr. 6; Sp. p. 600; Gaz. vol. 141; p. 103.
- Clement Restein Company. (See Miller, N. B., assignor.)
- Clement, S. L. (See Ewel and Clement.)
- Clement, T. J., Atlantic City, N. J. Coffee-pot. No. 929,388; July 27; Sp. p. 5595; Gaz. vol. 144; p. 981.
- Clement, T. J., Atlantic City, N. J. Serving-cup for beverages. No. 929,389; July 27; Sp. p. 5596; Gaz. vol. 144; p. 981.
- Clement, T. J., Atlantic City, N. J. Cover for teapots. No. 930,938; Aug. 10; Sp. p. 2712; Gaz. vol. 145; p. 464.
- Clements, B. (See Martell, F., assignor.)
- Clements, C., Boston, Mass. Producing photographic representations of structural designs. No. 910,990; Jan. 26; Sp. p. 5201; Gaz. vol. 138; p. 938.
- Clements, C., Boston, Mass. Producing photographic representations of structural designs. No. 927,116; July 6; Sp. p. 876; Gaz. vol. 144; p. 140.
- Clements, G., and J. M. Hostler, assignors to Hygienic Renovating Company, Chicago, Ill. Renovating system. No. 928,940; July 27; Sp. p. 4632; Gaz. vol. 144; p. 831.
- Clements, G. P., assignor of one-half to C. H. Ainey, New Milford, Pa. Sad-iron. No. 932,248; Aug. 24; Sp. p. 5564; Gaz. vol. 145; p. 947.
- Clements, J., Philadelphia, Pa. Flower-pot support for jardinières. No. 910,905; Jan. 26; Sp. p. 5050; Gaz. vol. 138; p. 910.
- Clements, J. H., Jr. (See Dalton and Clements, Jr.)
- Clemetsen Company. (See Vaaler, J., assignor.)
- Clemmons, J. I., et al. (See Sandiford, G. W., assignor.)
- Clemons, H. K., St. Paul, Minn. Road-grading machine. No. 924,966; June 15; Sp. p. 4022; Gaz. vol. 143; p. 685.
- Clephane, M. W., et al. (See Hoofnagle, W. T., assignor.)
- Clergy, L. J., and H. Morrow, Belt, Mont. Antiskidding device. No. 923,332; June 1; Sp. p. 517; Gaz. vol. 143; p. 74.
- Cleveland, A., assignor of one-half to T. O. Rock, Canby, Minn. Pail. No. 925,457; June 22; Sp. p. 4959; Gaz. vol. 143; p. 875.
- Cleveland-Akron Bag Company. (See Rogers, T., assignor.)
- Cleveland-Akron Bag Company. (See Scherf, T., assignor.)
- Cleveland Armature Works. (See Pifer, A. A., assignor.)
- Cleveland Art Metal Company. (See Zitzmann, A. J., assignor.)
- Cleveland, C. E., Fond du Lac, Wis. Saw-straining mechanism. No. 919,128; Apr. 20; Sp. p. 4481; Gaz. vol. 141; p. 782.
- Cleveland, C. E., Fond du Lac, Wis. Apparatus for handling lumber. No. 922,854; May 25; Sp. p. 5681; Gaz. vol. 142; p. 995.
- Cleveland, C. E., Fond du Lac, Wis. Setting mechanism for twin band-saw mills. No. 922,855; May 25; Sp. p. 5684; Gaz. vol. 142; p. 996.
- Cleveland, C. E., Fond du Lac, Wis. Sawmill set-works. No. 923,408; June 1; Sp. p. 674; Gaz. vol. 143; p. 99.
- Cleveland, C. E., Fond du Lac, Wis. Log-handling mechanism. No. 933,231; Sept. 7; Sp. p. 453; Gaz. vol. 146; p. 70.
- Cleveland, C. E., Fond du Lac, Wis. Band-saw resawing-machine. No. 941,758; Nov. 30; Sp. p. 7284; Gaz. vol. 148; p. 1227.
- Cleveland Car Specialty Company. (See Weiss, G. L., assignor.)
- Cleveland Collet and Machine Company. (See Schultz, C. F., assignor.)
- Cleveland, F. A., New York, N. Y. Rotary engine. No. 910,272; Jan. 19; Sp. p. 3767; Gaz. vol. 138; p. 678.
- Cleveland, F. A., New York, N. Y. Rotary engine. No. 933,363; Sept. 7; Sp. p. 749; Gaz. vol. 146; p. 116.
- Cleveland Gas & Electric Fixture Company. (See Hine, W. C., assignor.)
- Cleveland, H. G., Plymouth, Conn. Electric-light hanger. No. 920,915; May 11; Sp. p. 1684; Gaz. vol. 142; p. 299.
- Cleveland, H. S., Faribault, Minn., assignor of one-half to C. H. Rodenbach, Cedar Falls, Iowa. Cooking-stove. No. 918,734; Apr. 20; Sp. p. 3694; Gaz. vol. 141; p. 655.
- Cleveland, H. S., Faribault, Minn., assignor of one-half to C. H. Rodenbach, Cedar Falls, Iowa. Cooking-stove. No. 918,826; Apr. 20; Sp. p. 3881; Gaz. vol. 141; p. 684.
- Cleveland Hardware Company. (See Higley, G., assignor.)
- Cleveland Pneumatic Tool Company. (See Richards, C. B., assignor.)
- Cleveland, R. M., assignor of one-half to C. L. Hutcheson, Chattanooga, Tenn. Sample-displaying cover for receptacles. No. 921,591; May 11; Sp. p. 3055; Gaz. vol. 142; p. 525.
- Cleveland Rock Drill Company. (See Richards, C. B., assignor.)
- Cleveland, W. B., assignor to Electric Railway Improvement Company, Cleveland, Ohio. Rail-bond protector. No. 911,209; Feb. 2; Sp. p. 365; Gaz. vol. 139; p. 64.
- Cleveland, W. E., assignor to National Piano Player Company, Oregon, Ill. Coin-ejector for musical instruments. No. 910,502; Jan. 26; Sp. p. 4252; Gaz. vol. 138; p. 781.
- Clevenger, W. L., Watson, Mo. Disk cultivator. No. 935,297; Sept. 28; Sp. p. 4665; Gaz. vol. 146; p. 829.
- Cleverdon, F. R. W., New Rochelle, and J. De Temple, New York, N. Y. Bolt-anchorage. No. 913,875; Mar. 2; Sp. p. 437; Gaz. vol. 140; p. 71.
- Cliff, E. R., New York, N. Y. Electric transformer and governor. No. 942,544; Dec. 7; Sp. p. 1081; Gaz. vol. 149; p. 175.
- Clifford, G. R., Chicago, Ill. Hydroplane vessel. No. 912,814; Feb. 16; Sp. p. 3741; Gaz. vol. 139; p. 658.
- Clifford, H. M., Westminster, assignor to Cork Asphalt Limited, London, England. Manufacture of blocks, plates, and other articles for use in road-making, building, and for similar purposes. No. 917,004; Apr. 6; Sp. p. 79; Gaz. vol. 141; p. 18.
- Clifford, J., assignor to L. Wolf Manufacturing Company, Chicago, Ill. Overflow and waste plug or valve for lavatories, baths, &c. No. 919,420; Apr. 27; Sp. p. 5281; Gaz. vol. 141; p. 914.
- Clifford, J., Chicago, Ill., and C. Weelans, assignors to Monument Pottery Company, Trenton, N. J. Manufacturing lavatory-basins or other earthenware articles. No. 929,390; July 27; Sp. p. 5598; Gaz. vol. 144; p. 982.
- Clifford, T. G., New York, N. Y., assignor of two-thirds to W. Cranstoun, Stratford, Conn., and G. F. Rose, New York, N. Y. Non-refillable bottle. No. 944,015; Dec. 21; Sp. p. 4277; Gaz. vol. 149; p. 736.
- Clifford, W., et al. (See Gunnell, E., assignor.)
- Clifford, W. E., assignor to Draper Company, Hopedale, Mass. Thread-parting mechanism for looms. No. 931,913; Aug. 24; Sp. p. 4877; Gaz. vol. 145; p. 836.
- Clifford, W. S., New York, N. Y. Nosing for curb-corners. No. 940,432; Nov. 16; Sp. p. 4423; Gaz. vol. 148; p. 740.
- Clift, C., New York, N. Y., assignor to Clift Company, Cleveland, Ohio. Garment-hanger. No. 943,340; Dec. 14; Sp. p. 2819; Gaz. vol. 149; p. 474.
- Clift Company. (See Clift, C., assignor.)
- Clift, I. L., Philadelphia, Pa. Window-cleaner. No. 929,391; July 27; Sp. p. 5600; Gaz. vol. 144; p. 982.
- Clifton, C. H., San Quentin, Cal. Boat-rowing machine. No. 921,951; May 18; Sp. p. 3837; Gaz. vol. 142; p. 672.
- Clifton, E., Enfield, England. Color photography. No. 923,019; May 25; Sp. p. 6018; Gaz. vol. 142; p. 1048.
- Clifton, J. H. F., Pilotmountain, N. C. Grain-cradle. No. 925,297; June 15; Sp. p. 4650; Gaz. vol. 143; p. 794.
- Clifton Manufacturing Company. (See Thoma, A., assignor.)
- Clifton, W. G., Highbury, London, England. Power-transmission mechanism. No. 929,556; July 27; Sp. p. 5884; Gaz. vol. 144; p. 1034.
- Climax Lubricator Company. (See Enos and West, assignors.)
- Climax Patents. (See Stocks and Webb, assignors.)
- Climax Road Machine Co. (See McAlpine, L. B., assignor.)
- Clindinin, W. W., Chicago, Ill. Truss. No. 935,777; Oct. 5; Sp. p. 353; Gaz. vol. 147; p. 53.
- Cline, A. R., Philadelphia, Pa. Metallic rail-tie and rail-fastening. No. 929,915; Aug. 3; Sp. p. 629; Gaz. vol. 145; p. 99.
- Cline, D. L., Medford, Okla. Account-keeping system. No. 916,270; Mar. 23; Sp. p. 5304; Gaz. vol. 140; p. 939.
- Cline, F. N., Chicago, Ill. Casting-machine. No. 928,246; July 20; Sp. p. 3210; Gaz. vol. 144; p. 572.
- Cline, J. P., Charity, Mo. Buggy-top support. No. 930,352; Aug. 10; Sp. p. 1471; Gaz. vol. 145; p. 269.
- Cline, S., Henry, N. C. Cutter and matcher head. No. 933,695; Sept. 7; Sp. p. 1497; Gaz. vol. 146; p. 226.
- Cline, W. H., Charleston, S. C. Bed. No. 926,854; July 6; Sp. p. 320; Gaz. vol. 144; p. 51.
- Clipperton, J. H., Sherburn, Minn. Boiler-cleaner. No. 930,647; Aug. 10; Sp. p. 2109; Gaz. vol. 145; p. 368.
- Clippinger, A. B. and M. A., Kansas City, Mo. Hay-stacker. No. 939,393; Nov. 9; Sp. p. 2110; Gaz. vol. 148; p. 352.
- Clippinger, M. A. (See Clippinger, A. B. and M. A.)
- Cliver, J. C., Ogden, Utah. Car-inspector's lamp. No. 929,916; Aug. 3; Sp. p. 630; Gaz. vol. 145; p. 99.
- Cloak, W. H., Philadelphia, Pa. Extension-hopper and soil-pipe cleaner. No. 941,558; Nov. 30; Sp. p. 6849; Gaz. vol. 148; p. 1160.
- Cloos, J., Milwaukee, Wis. Sliding-door fastener. No. 924,145; June 8; Sp. p. 2272; Gaz. vol. 143; p. 375.
- Cloos, J., assignor to J. H. Hirz and H. H. Schroeder, Milwaukee, Wis. Elevator safety device. No. 925,426; June 15; Sp. p. 4877; Gaz. vol. 143; p. 834.
- Close, G. L., Mount Vernon, N. Y., assignor, by mesne assignments, to Slip Scarf Company. Neckwear. No. 923,409; June 1; Sp. p. 681; Gaz. vol. 143; p. 99.

*Alphabetical list of patentees—Continued.*

- Close, J. V., assignor to R. S. Barclay, Rowayton, Conn. Combined jointer and raker. No. 918,967; Apr. 20; Sp. p. 4192; Gaz. vol. 141; p. 732.
- Close, R. T., Duluth, Minn. System of cataloging. No. 941,499; Nov. 30; Sp. p. 6733; Gaz. vol. 148; p. 1141.
- Closz, C., Webster City, Iowa. Adjustable sieve. No. 909,757; Jan. 12; Sp. p. 2670; Gaz. vol. 138; p. 471.
- Closz, C., Webster City, Iowa. Adjustable sieve. No. 925,623; June 22; Sp. p. 5285; Gaz. vol. 143; p. 929.
- Clothworthy, W., Grand Rapids, Mich. Lubricator. No. 915,937; Mar. 23; Sp. p. 4680; Gaz. vol. 140; p. 831.
- Clough, H. B., Concordia, assignor of one-half to J. T. McKenna, Topeka, Kans. Display-rack. No. 908,548; Jan. 5; Sp. p. 243; Gaz. vol. 138; p. 41.
- Cloud, J. W., London, England, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Triple valve. No. 931,271; Aug. 17; Sp. p. 3494; Gaz. vol. 145; p. 605.
- Clough, E. S. (See Clough, W. D., E. S., and J. G.)
- Clough, J. A., Spring Valley, Wis. Step-ladder. No. 923,246; June 1; Sp. p. 262; Gaz. vol. 143; p. 43.
- Clough, J. G. (See Clough, W. D., E. S., and J. G.)
- Clough, J. H. (See Hilaman and Clough.)
- Clough, W. D., E. S., and J. G., Quincy, Ill. Concrete-mixer. No. 927,117; July 6; Sp. p. 878; Gaz. vol. 144; p. 141.
- Clouse, N. W., Newton, Iowa. Screen-wire cabinet and measuring-table. No. 940,236; Nov. 16; Sp. p. 3959; Gaz. vol. 148; p. 673.
- Clouse, W. L., assignor to National Machinery Company, Tiffin, Ohio. Nut-making machine. No. 943,768; Dec. 21; Sp. p. 3737; Gaz. vol. 149; p. 651.
- Clouse, W. L., assignor to National Machinery Company Tiffin, Ohio. Nut-tap socket. No. 943,863; Dec. 21; Sp. p. 3934; Gaz. vol. 149; p. 684.
- Clouser, W., Dana, Ind. Husking-machine. No. 941,229; Nov. 23; Sp. p. 6149; Gaz. vol. 148; p. 1031.
- Clouston, H., Antler, N. D. Automatic stoker. No. 908,747; Jan. 5; Sp. p. 677; Gaz. vol. 138; p. 105.
- Clover, B. L. and G. H., Chicago, Ill. Valve for steam-traps. No. 942,246; Dec. 7; Sp. p. 469; Gaz. vol. 149; p. 73.
- Clover, G. H. (See Clover, B. L. and G. H.)
- Clover Manufacturing Company. (See Gallaher, E. B., assignor.) (Reissue.)
- Clover, R. D., Weston, Colo. Puzzle. No. 932,845; Aug. 31; Sp. p. 6805; Gaz. vol. 145; p. 1167.
- Clow, W. C., assignor of one-fourth to C. W. Moore and one-fourth to C. A. Rambo, Vancouver, Wash. Jeweler's soldering-clamp. No. 920,111; May 4; Sp. p. 34; Gaz. vol. 142; p. 5.
- Clowers, W. B., Lehigh, Pa. Boiler-flue cleaner. No. 935,141; Sept. 28; Sp. p. 4368; Gaz. vol. 146; p. 779.
- Cloyes, E., Aurora, Ill. Paper file and binder. No. 912,075; Feb. 9; Sp. p. 2162; Gaz. vol. 139; p. 374.
- Cluett, Peabody & Company. (See Estes, L. V., assignor.)
- Cluett, Peabody & Company. (See Kennedy, H. S., assignor.)
- Clugsten, W. F., Hamburg, Ill. Head-rest. No. 931,181; Aug. 17; Sp. p. 3285; Gaz. vol. 145; p. 573.
- Clulee, S. J., Attleboro, Mass., assignor to Bay State Optical Company, Saco, Me. Eyeglass-mounting. No. 938,744; Nov. 2; Sp. p. 633; Gaz. vol. 148; p. 100.
- Clulee, S. J., Attleboro, Mass., assignor to Bay State Optical Company. Eyeglasses. No. 939,668; Nov. 9; Sp. p. 2707; Gaz. vol. 148; p. 447.
- Clumdt, C., and J. Reidt, San Francisco, Cal. Account-register. No. 938,214; Oct. 26; Sp. p. 5475; Gaz. vol. 147; p. 936.
- Clumies, A. B., assignor to Sill Stove Works, Rochester, N. Y. Gas-stove. No. 910,503; Jan. 26; Sp. p. 4253; Gaz. vol. 138; p. 781.
- Clutter, L. P., Deer Lick, Pa. Excavating-machine. No. 944,320; Dec. 28; Sp. p. 4907; Gaz. vol. 149; p. 864.
- Cluxton, M. W., Chicago, Ill. Metal sheet-piling, (junction unit.) No. 909,548; Jan. 12; Sp. p. 2250; Gaz. vol. 138; p. 400.
- Cluxton, M. W., Chicago, Ill. Metal sheet-piling. No. 909,549; Jan. 12; Sp. p. 2252; Gaz. vol. 138; p. 400.
- Cluxton, S. H., Washington, D. C. Device for automatically stopping vehicles. No. 923,020; May 25; Sp. p. 6020; Gaz. vol. 142; p. 1048.
- Clyde Iron Works. (See McGiffert, J. R., assignor.)
- Clymans, E. G., assignor to Geiser Manufacturing Company, Waynesboro, Pa. Grain-separator. No. 928,498; July 20; Sp. p. 3730; Gaz. vol. 144; p. 656.
- Clymer, F., Belmar, and J. Degen, assignors to United Revolving Door Company, Trenton, N. J. Revolving door. No. 941,619; Nov. 30; Sp. p. 6973; Gaz. vol. 148; p. 1180.
- Clymer, R. S., Allentown, Pa. Apparatus for magnetic treatment of diseases. No. 910,643; Jan. 26; Sp. p. 4550; Gaz. vol. 138; p. 828.
- Coad, E. (See Hobart and Coad.)
- Coady, P. J., Columbus, Ohio. Track-sander. No. 942,377; Dec. 7; Sp. p. 721; Gaz. vol. 149; p. 118.
- Coal and Coke By-Products Company. (See Ernst, A., assignor.)
- Coal Products and Power Company. (See Cone, W. H., assignor.)
- Coelecon Company. (See Shoals, W. G., assignor.)
- Coate, S. T., and J. T. Saris, Springfield, Ill. Fire-supporter. No. 943,341; Dec. 14; Sp. p. 2821; Gaz. vol. 149; p. 475.
- Coates, F., Springfield, Mass. Box-labeling machine. No. 940,674; Nov. 23; Sp. p. 4943; Gaz. vol. 148; p. 845.
- Cobb, A. L., assignor of forty-nine one-hundredths to H. B. Boyd, Estes Park, Colo. Extension-clamp. No. 912,543; Feb. 16; Sp. p. 3148; Gaz. vol. 139; p. 555.
- Cobb, E. M., South Portland, assignor to E. M. Lang, Jr., Portland, Me. Can-cap dropper. No. 941,357; Nov. 30; Sp. p. 6419; Gaz. vol. 148; p. 1094.
- Cobb, F. D. H., *et al.* (See Burns, A. J., assignor.)
- Cobb, H. Z., Chelsea, assignor to Revere Rubber Company, Boston, Mass. Braided fabric and making it. No. 937,021; Oct. 12; Sp. p. 2946; Gaz. vol. 147; p. 490.
- Cobb, J. H., and G. T. Fleming, Belton, assignors to E. S. Tennent, Spartanburg, S. C. Holder for travelers used in cotton-spinning machines. No. 925,298; June 15; Sp. p. 4652; Gaz. vol. 143; p. 794.
- Cobb Preserving Company *et al.* (See Burns, A. J., assignor.)
- Cobbe, H. N. G. (See Middleton and Cobbe.)
- Cobedash, W. F., Salem, Ohio. Gas-burner. No. 938,745; Nov. 2; Sp. p. 636; Gaz. vol. 148; p. 101.
- Cobham, F. P., Jamestown, N. Y., assignor of one-third to F. E. Windsor and one-third to L. Schmutz, Warren, Pa. Electric-arc light. No. 936,305; Oct. 12; Sp. p. 1450; Gaz. vol. 147; p. 251.
- Coburn, A. A. (See Harden and Coburn.)
- Coburn Cotton Harvester Company. (See Coburn, H. S., assignor.)
- Coburn, E., *et al.* (See Lewis, F. G., assignor.)
- Coburn, E. B., Worcester, Mass. Cutting-machine for pastry. No. 939,981; Nov. 16; Sp. p. 3382; Gaz. vol. 148; p. 582.
- Coburn, H. B. (See Merritt and Coburn.)
- Coburn, H. S., Malden, Mass., assignor to Coburn Cotton Harvester Company. Picker-stem. No. 936,236; Oct. 5; Sp. p. 1309; Gaz. vol. 147; p. 201.
- Coburn, R. G. (See Strid, S. J., assignor.)
- Cochius, G. L., Remboen, Java, assignor to Maatschappij tot Voortzetting van de Zaken der Firma Ruhaak & Co., Haarlem, Netherlands. Weighing-machine. No. 944,847; Dec. 28; Sp. p. 6081; Gaz. vol. 149; p. 1046.
- Cochran, A., assignor to Cochran, Drugan & Co., Trenton, N. J. Water-closet. No. 934,422; Sept. 14; Sp. p. 2930; Gaz. vol. 146; p. 489.
- Cochran, C. F., and C. F. Long, Vandergrift, Pa. Rail-joint. No. 933,061; Sept. 7; Sp. p. 48; Gaz. vol. 146; p. 9.
- Cochran, C. R., Meeteetse, Wyo. Door-catch. No. 914,796; Mar. 9; Sp. p. 2401; Gaz. vol. 140; p. 403.
- Cochran, C. W., Philadelphia, Pa. Staple-puller. No. 910,173; Jan. 19; Sp. p. 3505; Gaz. vol. 138; p. 641.
- Cochran, Drugan & Co. (See Cochran, A., assignor.)
- Cochran, E. J., Sterling, Ill. Chimney-top. No. 912,076; Feb. 9; Sp. p. 2163; Gaz. vol. 139; p. 374.
- Cochran, G. F. (See Payne and Cochran.)
- Cochran, J., Lockport, N. Y. Box. No. 926,640; June 29; Sp. p. 7359; Gaz. vol. 143; p. 1298.
- Cochran, J. B., Cleveland, Ohio. Detachable link. No. 944,016; Dec. 21; Sp. p. 4277; Gaz. vol. 149; p. 736.
- Cochran, J. E., Elkhart, Ind. Weighing-scale. No. 937,767; Oct. 26; Sp. p. 4523; Gaz. vol. 147; p. 784.
- Cochran, J. E., Dundee, Ill. Weighing-scale. No. 937,768; Oct. 26; Sp. p. 4527; Gaz. vol. 147; p. 785.
- Cochran, W., Paterson, N. J. Jacquard-card wire. No. 919,321; Apr. 27; Sp. p. 5070; Gaz. vol. 141; p. 880.
- Cochran, W., Paterson, N. J. Shuttle for sewing-machines. No. 953,062; Sept. 7; Sp. p. 49; Gaz. vol. 146; p. 9.
- Cochran, W. E., assignor to Howler Manufacturing Co., Montgomery, Ala. Alcohol-gas burner. No. 922,445; May 18; Sp. p. 4824; Gaz. vol. 142; p. 834.
- Cochrane, J. E. (See Hargreaves, J., assignor.)
- Cochrane, J. J. and M. E., Jersey City, N. J. Insect-exterminator. No. 919,827; Apr. 27; Sp. p. 6167; Gaz. vol. 141; p. 1052.
- Cochrane, M. E. (See Cochrane, J. J. and M. E.)
- Cochrane, R. B., assignor to German American Button Company, Rochester, N. Y. Button-making machine. No. 924,736; June 15; Sp. p. 3530; Gaz. vol. 143; p. 606.
- Cockburn, S. M., London, England. Boiler-tube cleaner. No. 928,361; July 20; Sp. p. 3473; Gaz. vol. 144; p. 613.
- Cockell, H., Columbus, Ohio. Railway-tie. No. 928,499; July 20; Sp. p. 3731; Gaz. vol. 144; p. 656.
- Cocker, J. A. (See Haynes and Cocker.)



*Alphabetical list of patentees—Continued.*

- Cockrell, B. C., Washington, D. C. Paper receptacle. No. 943,389; Dec. 14; Sp. p. 2914; Gaz. vol. 149; p. 490.
- Cockrum, G. R., Mineral Wells, Tex. Bracket. No. 919,421; Apr. 27; Sp. p. 5282; Gaz. vol. 141; p. 914.
- Cockshutt Plow Co. (See Wedlake, G. K., assignor.)
- Coco, J. M. and P. J., Voorhies, La. Boll-weevil trap. No. 926,244; June 29; Sp. p. 6630; Gaz. vol. 143; p. 1170.
- Coco, P. J. (See Coco, J. M. and P. J.)
- Coda, C. F., assignor to Art Stove Company, Detroit, Mich. Fire-pot. No. 913,812; Mar. 2; Sp. p. 281; Gaz. vol. 140; p. 48.
- Coddington, B. W., Colon, Mich. Curtain-fixture. No. 942,439; Dec. 7; Sp. p. 843; Gaz. vol. 149; p. 138.
- Coderre, A. (See Cuniff, Coderre, and Benson.)
- Cody, R. D., Winona, Minn. Explosion-engine. No. 924,634; June 15; Sp. p. 3322; Gaz. vol. 143; p. 571.
- Coe Brass Manufacturing Company. (See Hine, A. P., assignor.)
- Coe Brass Manufacturing Company. (See Smith, L. C., assignor.)
- Coe Brass Manufacturing Company. (See Steele and Hansen, assignors.)
- Coe, C. E., assignor of one-half to J. T. Van Dillen, St. Louis, Mo. Metallic belt-fastener. No. 929,078; July 27; Sp. p. 4917; Gaz. vol. 144; p. 876.
- Coe, C. T., Albany, N. Y. Steam-jet blower. No. 923,490; June 1; Sp. p. 838; Gaz. vol. 143; p. 127.
- Coe, D. E., Pawtucket, R. I. Blanket-clamp. No. 914,637; Mar. 9; Sp. p. 2058; Gaz. vol. 140; p. 350.
- Coe, E. D., executrix. (See Coe, W. H.)
- Coe, J. B., assignor of one-fourth to F. B. Lenzi, Boston, Mass. Selective electric signaling apparatus. No. 944,665; Dec. 28; Sp. p. 5675; Gaz. vol. 149; p. 985.
- Coe, J. R., Ansonia, Conn., assignor, by mesne assignments, to Connecticut Mill Supply Company. Bobbin. No. 914,793; Mar. 9; Sp. p. 2397; Gaz. vol. 140; p. 402.
- Coe, J. R., Ansonia, Conn., assignor, by mesne assignments, to Connecticut Mill Supply Company. Spindle. No. 914,794; Mar. 9; Sp. p. 2398; Gaz. vol. 140; p. 402.
- Coe, J. R., assignor of one-half to A. P. Hine, Waterbury, Conn. Gage and measuring instrument. No. 930,330; Aug. 3; Sp. p. 1425; Gaz. vol. 145; p. 236.
- Coe, M. B., Rankin, Okla. Cotton-picker. No. 927,118; July 6; Sp. p. 881; Gaz. vol. 144; p. 141.
- Coe, S. L. W. (See Werden, H. T., assignor.)
- Coe, S. L. W., New York, N. Y. Stamp-strip. No. 943,653; Dec. 21; Sp. p. 3519; Gaz. vol. 149; p. 613.
- Coe, S. L. W., and H. Werden, New York, N. Y. Pocket-strip for use in vending-machines. No. 943,652; Dec. 21; Sp. p. 3518; Gaz. vol. 149; p. 612.
- Coe, W. H., deceased, Providence, R. I.; E. D. Coe executrix. Package-roll of metallic leaf. No. 929,557; July 27; Sp. p. 5887; Gaz. vol. 144; p. 1034.
- Coe, W. H., deceased, Providence, R. I.; E. D. Coe executrix. Package-roll of metallic leaf. No. 929,558; July 27; Sp. p. 5888; Gaz. vol. 144; p. 1034.
- Coe, W. H., deceased, Providence, R. I.; E. D. Coe executrix. Apparatus for depositing metallic leaf from the surface of a heated roller. No. 929,559; July 27; Sp. p. 5888; Gaz. vol. 144; p. 1035.
- Coe, W. H., deceased, Providence, R. I.; E. D. Coe, executrix. Package-roll of metallic leaf. No. 939,189; Nov. 2; Sp. p. 1585; Gaz. vol. 148; p. 256.
- Coen, F. W., Chicago, Ill. Starter-crank for explosive-engines. No. 903,841; Jan. 5; Sp. p. 854; Gaz. vol. 138; p. 134.
- Coenen, G., Hoboken, N. J. Flushing apparatus. No. 935,642; Oct. 5; Sp. p. 30; Gaz. vol. 147; p. 7.
- Coes Wrench Company. (See Searle, F., assignor.)
- Coe, W. D., Chicago, Ill. Guard for veil-racks. No. 914,795; Mar. 9; Sp. p. 2400; Gaz. vol. 140; p. 403.
- Coffee, R. W., Richmond, Va., assignor to L. M. Keizer, Baltimore, Md. Circuit-controller. No. 912,447; Feb. 16; Sp. p. 2933; Gaz. vol. 139; p. 532.
- Coffee, R. W., Richmond, Va., assignor to L. M. Keizer, Baltimore, Md. Three-speed transmission-gearing. No. 918,057; Apr. 20; Sp. p. 3512; Gaz. vol. 141; p. 628.
- Coffee, R. W., Richmond, Va., assignor to L. M. Keizer, Baltimore, Md. Power-transmission gearing. No. 918,658; Apr. 20; Sp. p. 3515; Gaz. vol. 141; p. 628.
- Coffee, R. W., Richmond, Va., assignor to L. M. Keizer, Baltimore, Md. Explosive-engine. No. 923,491; June 1; Sp. p. 839; Gaz. vol. 143; p. 128.
- Coffey, B. H., Boston, Mass. Subaqueous rock-breaker. No. 918,968; Apr. 20; Sp. p. 4194; Gaz. vol. 141; p. 732.
- Coffey, B. H., Elizabeth, assignor, by mesne assignments, to Submarine Company, Hoboken, N. J. Subaqueous rock-breaker. No. 919,422; Apr. 27; Sp. p. 5283; Gaz. vol. 141; p. 915.
- Coffey, B. H., Boston, Mass., assignor, by mesne assignments, to Submarine Company, Hoboken, N. J. Subaqueous rock-breaker. No. 929,832; Aug. 3; Sp. p. 430; Gaz. vol. 145; p. 71.
- Coffey, C. C., T. Pfennighausen, and E. A. Robinson, Riverside, Cal. Explosive-engine. No. 926,641; June 29; Sp. p. 7361; Gaz. vol. 143; p. 1299.
- Coffey, J. A. (See Bowen and Coffey.)
- Coffey, M. D., Chicago, and T. C. Blayney, Riverside, Ill. Garment-clasp. No. 918,010; Apr. 13; Sp. p. 2139; Gaz. vol. 141; p. 385.
- Coffield Motor Washer Co. (See Davidson, H. C., assignor.)
- Coffield Motor Washer Company. (See Coffield, P. T., assignor.)
- Coffield, P. T., assignor to Coffield Motor Washer Company, Dayton, Ohio. Rotary pressure-motor. No. 926,689; June 29; Sp. p. 7462; Gaz. vol. 143; p. 1315.
- Coffin, A. O., Springfield, Mo. Concrete tie and rail-fastening. No. 943,519; Dec. 14; Sp. p. 3190; Gaz. vol. 149; p. 536.
- Coffin, C. L., assignor to Electric Metal Working Company, Detroit, Mich. Metallic vessel. No. 920,432; May 4; Sp. p. 698; Gaz. vol. 142; p. 110.
- Coffin, C. W., Portland, Me. Fastening device for storm-windows. No. 911,477; Feb. 2; Sp. p. 855; Gaz. vol. 139; p. 151.
- Coffin, F. W., Slatington, Pa. Tenspin-spotting machine. No. 930,353; Aug. 10; Sp. p. 1472; Gaz. vol. 145; p. 269.
- Coffin, H. E., Detroit, Mich. Dust pan or shield for automobiles. No. 917,926; Apr. 13; Sp. p. 1952; Gaz. vol. 141; p. 354.
- Coffin, H. E., Detroit, Mich. Control mechanism. No. 920,916; May 11; Sp. p. 1685; Gaz. vol. 142; p. 299.
- Coffin, H. E., New York, N. Y. Advertising-sign. No. 933,531; Sept. 7; Sp. p. 1176; Gaz. vol. 146; p. 170.
- Coffin, H. E., assignor to Chalmers-Detroit Motor Company, Detroit, Mich. Combined sediment-cup, strainer, and drain-plug. No. 920,271; May 4; Sp. p. 396; Gaz. vol. 142; p. 60.
- Coffin, H. E., assignor to Chalmers-Detroit Motor Company, Detroit, Mich. Coupling for power transmission in motor-vehicles. No. 934,043; Sept. 14; Sp. p. 2177; Gaz. vol. 146; p. 360.
- Coffin, H. E., assignor to Chalmers-Detroit Motor Company, Detroit, Mich. Transmission unit for motor-vehicles. No. 935,643; Oct. 5; Sp. p. 32; Gaz. vol. 147; p. 7.
- Coffin, H. E., assignor to Chalmers-Detroit Motor Company, Detroit, Mich. Clutch. No. 935,644; Oct. 5; Sp. p. 34; Gaz. vol. 147; p. 7.
- Coffman, A. (See Craig and Coffman.)
- Coffman, J. H., Philadelphia, Pa. Wall-tie. No. 930,267; Aug. 3; Sp. p. 1308; Gaz. vol. 145; p. 216.
- Coffman, W. H., Bluefield, W. Va. Rail-chair. No. 927,327; July 6; Sp. p. 1263; Gaz. vol. 144; p. 208.
- Coffman, W. M., Madison, Wis., assignor to Northern Electrical Manufacturing Company. Brush-support for dynamo-electric machines. No. 917,005; Apr. 6; Sp. p. 80; Gaz. vol. 141; p. 18.
- Cogan, J. E., Cleveland, Ohio. Phorometer. No. 938,463; Nov. 2; Sp. p. 21; Gaz. vol. 148; p. 6.
- Coggeshall, J. W. (See Tillotson, M., assignor.)
- Coggins, L. D. (See Hards, E., assignor.)
- Cogill, F. L. (See Daniels, Cogill, and Fray.)
- Cogswell, A. F., Pretty Prairie, Kans., and J. W. Puckett, Geneva, Nebr. Vulcanizing apparatus. No. 923,772; June 1; Sp. p. 1472; Gaz. vol. 143; p. 225.
- Cogswell, G. W., and W. H. MacCrone, Rochester, N. Y. Horseshoe. No. 939,473; Nov. 9; Sp. p. 2288; Gaz. vol. 148; p. 379.
- Cogswell, J. A., Malden, assignor of one-fourth to W. H. Stewart, one-fourth to J. D. Lowe, and one-fourth to L. Anerbach, Boston, Mass. Preserving-shield for poles and posts. No. 933,291; Sept. 7; Sp. p. 593; Gaz. vol. 146; p. 91.
- Cohen, A., New York, N. Y. Buckle. No. 939,394; Nov. 9; Sp. p. 2112; Gaz. vol. 148; p. 352.
- Cohen, A. J., Philadelphia, Pa., assignor to Merchant & Evans Company, Camden, N. J. Roofing material. No. 917,543; Apr. 6; Sp. p. 1146; Gaz. vol. 141; p. 200.
- Cohen, H., Brooklyn, N. Y. Spare-tire cover. No. 922,669; May 25; Sp. p. 5295; Gaz. vol. 142; p. 936.
- Cohen, I., New York, N. Y. Bank-note tester. No. 935,963; Oct. 5; Sp. p. 771; Gaz. vol. 147; p. 115.
- Cohen, L. P., assignor to G. Leve, New York, N. Y. Furnace. No. 913,697; Mar. 2; Sp. p. 36; Gaz. vol. 140; p. 8.
- Cohen, H., Brooklyn, N. Y. Gaiter. No. 912,283; Feb. 16; Sp. p. 2590; Gaz. vol. 139; p. 477.
- Cohen, J. G., New York, N. Y., and F. X. Walsh, St. Louis, Mo. Sample-card. No. 913,262; Feb. 23; Sp. p. 4622; Gaz. vol. 139; p. 829.
- Cohen, M. I., Chicago, Ill. Lamp. No. 924,600; June 8; Sp. p. 3233; Gaz. vol. 143; p. 527.

*Alphabetical list of patentees—Continued.*

- Cohen, M. I., assignor to Economy Light Company, Chicago, Ill. Lamp. No. 936,521; Oct. 12; Sp. p. 1953; Gaz. vol. 147; p. 322.
- Cohen, P., Chicago, Ill. Clip-binder. No. 913,876; Mar. 2; Sp. p. 439; Gaz. vol. 140; p. 71.
- Cohen, S. A., New York, N. Y. Playing-cards. No. 927,119; July 6; Sp. p. 882; Gaz. vol. 144; p. 142.
- Cohen, S. L., New York, N. Y. Watch-pouch. No. 920,433; May 4; Sp. p. 699; Gaz. vol. 142; p. 110.
- Cohn, A., and L. M. Kronheimer, New York, N. Y. Loose-wrap-gluing machine. No. 927,224; July 6; Sp. p. 1078; Gaz. vol. 144; p. 175.
- Cohn, A. B., Philadelphia, Pa. Power-transmitter for sewing-machines. No. 941,857; Nov. 30; Sp. p. 7509; Gaz. vol. 148; p. 1262.
- Cohn, B. (See Prisant, L., assignor.)
- Cohn, C. H., New York, N. Y. Combination-lock. No. 910,174; Jan. 19; Sp. p. 3506; Gaz. vol. 138; p. 641.
- Cohn, H. (See Plasier and Cohn.)
- Cohn, S., assignor to Machine Mantle Sewing Company, New York, N. Y. Mantle-tying machine. No. 918,011; Apr. 13; Sp. p. 2142; Gaz. vol. 141; p. 385.
- Cohn, S., assignor to Machine Mantle Sewing Company, New York, N. Y. Mantle-tying machine. No. 918,012; Apr. 13; Sp. p. 2144; Gaz. vol. 141; p. 386.
- Cohn, S., assignor to Machine Mantle Sewing Company, New York, N. Y. Center jaw for mantle-sewing machines. No. 918,735; Apr. 20; Sp. p. 3696; Gaz. vol. 141; p. 656.
- Cohn, S., assignor to Machine Mantle Sewing Company, New York, N. Y. Mantle-shirring machine. No. 937,511; Oct. 19; Sp. p. 4013; Gaz. vol. 147; p. 682.
- Cohn, T., New York, N. Y. Ice-cream mold. No. 909,550; Jan. 12; Sp. p. 2254; Gaz. vol. 138; p. 400.
- Cohn, T., New York, N. Y. Oil-pan and candle-holder. No. 930,592; Aug. 10; Sp. p. 1995; Gaz. vol. 145; p. 350.
- Coignet, E., Paris, France. Foundation construction. No. 937,694; Oct. 19; Sp. p. 4349; Gaz. vol. 147; p. 741.
- Coit, J. L. (See McElney W. A., assignor.)
- Cokely, E. W., Coalinga, Cal. Wire or cord tightener. No. 930,533; Aug. 10; Sp. p. 1880; Gaz. vol. 145; p. 332.
- Colas, J. E., assignor of one-half to H. Brunet, Paris, France. Apparatus for indicating the passage of a train at definite points of a track. No. 926,098; June 29; Sp. p. 6306; Gaz. vol. 143; p. 1120.
- Colbath, M. D., Hamden, Me. Carburetor. No. 931,386; Aug. 17; Sp. p. 3743; Gaz. vol. 145; p. 645.
- Colbert, S. B., assignor of one-half to S. J. Douthitt, Pierce City, Mo. Mail-bag deliverer. No. 939,806; Nov. 9; Sp. p. 3000; Gaz. vol. 148; p. 494.
- Colborne, O., Chicago, Ill. Pie-machine. No. 927,490; July 13; Sp. p. 1612; Gaz. vol. 144; p. 290.
- Colborne, O., Chicago, Ill. Ladder. No. 927,491; July 13; Sp. p. 1616; Gaz. vol. 144; p. 290.
- Colburn, I. W., assignor to Colburn Machine Glass Company, Franklin, Pa. Device for maintaining the width of sheets of glass being drawn. No. 940,675; Nov. 23; Sp. p. 4954; Gaz. vol. 148; p. 846.
- Colburn, J. P., Kilbourn, Wis. Vehicle-body attachment. No. 925,299; June 15; Sp. p. 4654; Gaz. vol. 143; p. 795.
- Colburn Machine Glass Company. (See Colburn, I. W., assignor.)
- Colby, C. H., East Baldwin, Mo. Rotary-filler heater for corn-cookers. No. 917,544; Apr. 6; Sp. p. 1147; Gaz. vol. 141; p. 200.
- Colby, E. A., Newark, N. J. Electrical connecting device. No. 916,844; Mar. 30; Sp. p. 6436; Gaz. vol. 140; p. 1149.
- Colby, E. B., Montclair, N. J. Heating-stove. No. 912,077; Feb. 9; Sp. p. 2165; Gaz. vol. 139; p. 374.
- Colby, H. W., assignor to Automatic Racking Machine Company, Chicago, Ill. Barrel-filler. No. 924,737; June 15; Sp. p. 3539; Gaz. vol. 143; p. 607.
- Colby, H. W., assignor to Automatic Racking Machine Company, Chicago, Ill. Ammonia-condenser for refrigerating apparatus. No. 924,738; June 15; Sp. p. 3542; Gaz. vol. 143; p. 607.
- Colby, I. N. (See Sturgis, C. H., assignor.)
- Colcord, A. B., Kokomo, assignor to R. B. McConney and C. L. Buckingham, Denver, Colo. Oscillating screen for ore and other materials. No. 911,113; Feb. 2; Sp. p. 173; Gaz. vol. 139; p. 33.
- Coldwater Specialty Manufacturing Company. (See Stowe, M. F., assignor.)
- Coldwell, H. T., Newburgh, N. Y. Traction and lawn-rolling roller. No. 933,292; Sept. 7; Sp. p. 594; Gaz. vol. 146; p. 91.
- Cole, A. A., Lowell, Mass. Card-fillet tightener. No. 936,218; Oct. 5; Sp. p. 1280; Gaz. vol. 147; p. 195.
- Cole, A. B., St. Louis, Mo. Friction drive mechanism for automobiles. No. 928,739; July 20; Sp. p. 4230; Gaz. vol. 144; p. 737.
- Cole, A. B., Camden, N. J. Adjustable and detachable fire-hose-nozzle holder. No. 929,392; July 27; Sp. p. 5602; Gaz. vol. 144; p. 982.
- Cole, A. I., Oberlin, Kans. Blotter-holder. No. 924,739; June 15; Sp. p. 3544; Gaz. vol. 143; p. 608.
- Cole, A. J., Minneapolis, Minn. Explosive-engine. No. 939,669; Nov. 9; Sp. p. 2708; Gaz. vol. 148; p. 447.
- Cole, B. E., Menardville, Tex. Rod-coupling. No. 922,263; May 18; Sp. p. 4468; Gaz. vol. 142; p. 775.
- Cole, C. N., assignor of one-half to F. R. Rix, Ilion, N. Y. Shoe bunion-protector. No. 921,592; May 11; Sp. p. 3057; Gaz. vol. 142; p. 525.
- Cole, C. S., Sandy Hook, Conn. Electric storage battery. No. 910,991; Jan. 26; Sp. p. 5203; Gaz. vol. 138; p. 938.
- Cole, D. (See Neff, Cole, and Ebersole.)
- Cole, E. B. (See McDaniel, C. W., assignor.)
- Cole, E. C., Chicago, Ill. Stove. No. 934,887; Sept. 21; Sp. p. 3840; Gaz. vol. 146; p. 666.
- Cole, E. L., Chicago, Ill. Means for opening envelopes. No. 943,814; Dec. 21; Sp. p. 3834; Gaz. vol. 149; p. 666.
- Cole, E. M., Charlotte, N. C. Planter. No. 908,549; Jan. 5; Sp. p. 244; Gaz. vol. 138; p. 42.
- Cole, F. E., Boston, Mass. Compensating-spool. No. 936,306; Oct. 12; Sp. p. 1454; Gaz. vol. 147; p. 251.
- Cole, F. J. (See Mellin and Cole.)
- Cole, F. J., Schenectady, N. Y. Steam-boiler superheater. No. 936,412; Oct. 12; Sp. p. 1700; Gaz. vol. 147; p. 287.
- Cole, F. J., and F. F. Scoville, Schenectady, N. Y. Locomotive-engine. No. 936,413; Oct. 12; Sp. p. 1704; Gaz. vol. 147; p. 287.
- Cole, F. W., San Francisco, Cal. Track-sander. No. 935,778; Oct. 5; Sp. p. 354; Gaz. vol. 147; p. 53.
- Cole, F. W., Newton, Mass., assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Fire-alarm-telegraph apparatus. No. 923,114; May 25; Sp. p. 6224; Gaz. vol. 142; p. 1079.
- Cole, F. W., Newton, Mass., assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Frangible protecting device. No. 923,115; May 25; Sp. p. 6229; Gaz. vol. 142; p. 1079.
- Cole, H., Erdington, near Birmingham, England. Motor-car and other lamp. No. 917,844; Apr. 13; Sp. p. 1768; Gaz. vol. 141; p. 325.
- Cole, H., Columbus, Ohio. Drawing-table. No. 922,565; May 25; Sp. p. 5085; Gaz. vol. 142; p. 902.
- Cole, H. W., Brooklyn, N. Y. Rotary compressor. No. 910,175; Jan. 19; Sp. p. 3510; Gaz. vol. 138; p. 641.
- Cole, I. F., Williamsfield, Ill. Bundle-carrier for binders. No. 933,160; Sept. 7; Sp. p. 263; Gaz. vol. 146; p. 43.
- Cole, J. A., Chicago, Ill. Device for indicating the condition of valves. No. 921,675; May 18; Sp. p. 3276; Gaz. vol. 142; p. 583.
- Cole, J. H. (See Lawrence, D. F., assignor.)
- Cole, J. T. (See Kershaw and Cole.)
- Cole, O. K. (See Meyers, P. P., assignor.)
- Cole, R., Hudson, Mich. Grain-drill shoe. No. 909,991; Jan. 19; Sp. p. 3149; Gaz. vol. 138; p. 581.
- Cole, R. C., assignor to Johns-Pratt Company, Hartford, Conn. Indicating-fuse. No. 908,646; Jan. 5; Sp. p. 468; Gaz. vol. 138; p. 73.
- Cole, R. C., West Hartford, assignor to Johns-Pratt Company, Hartford, Conn. Insulating-bushing for electrical service-boxes. No. 918,969; Apr. 20; Sp. p. 4196; Gaz. vol. 141; p. 733.
- Cole, S. (See Bennick, H., assignor.)
- Cole, S. M., Anamosa, Iowa. Cuff-shaper. No. 936,761; Oct. 12; Sp. p. 2434; Gaz. vol. 147; p. 405.
- Cole, S. M., Chickasha, Okla. Trap. No. 937,350; Oct. 19; Sp. p. 3662; Gaz. vol. 147; p. 630.
- Cole & Treat Co. (See Tunstall, W. B., assignor.)
- Cole, W., Mina, Pa. Valve. No. 934,286; Sept. 14; Sp. p. 2665; Gaz. vol. 146; p. 442.
- Cole, W. H., Philadelphia, Pa. Construction of boats. No. 927,640; July 13; Sp. p. 1947; Gaz. vol. 144; p. 341.
- Coleman, B. F., Confidence, Cal. Stamp-lifter. No. 925,156; June 15; Sp. p. 4387; Gaz. vol. 143; p. 749.
- Coleman, C., *et al.* (See Harman, J., assignor.)
- Coleman, C. J., New York, N. Y. Railway signaling system. No. 916,674; Mar. 30; Sp. p. 6127; Gaz. vol. 140; p. 1098.
- Coleman, C. J., Rockaway, N. Y., assignor to Hall Signal Company. Signal apparatus. No. 909,551; Jan. 12; Sp. p. 2255; Gaz. vol. 138; p. 401.
- Coleman, C. J., New York, N. Y., assignor to Hall Signal Company. Apparatus for operating railway-signals. No. 915,741; Mar. 23; Sp. p. 4325; Gaz. vol. 140; p. 769.
- Coleman, C. J., assignor to C. Hubert, New York, N. Y. Battery-filling machine. No. 925,300; June 15; Sp. p. 4656; Gaz. vol. 143; p. 795.
- Coleman, C. W., Westfield, N. J., assignor to Hall Signal Company. Electric switch instrument. No. 927,714; July 13; Sp. p. 2105; Gaz. vol. 144; p. 365.
- Coleman, C. W., Westfield, N. J., assignor to Hall Signal Company. Railway-signal. No. 934,996; Sept. 28; Sp. p. 4074; Gaz. vol. 146; p. 730.
- Coleman, G. D., Brookline, Mass. Structural preservative. No. 937,227; Oct. 19; Sp. p. 3385; Gaz. vol. 147; p. 588.
- Coleman, H. A. (See Kluting, H. N., assignor.)
- Coleman, I., New York, N. Y. Fastening. No. 930,840; Aug. 10; Sp. p. 2496; Gaz. vol. 145; p. 432.
- Coleman, J. G. (See Davis, B. M., assignor.)
- Coleman, J. H., Tottenham, Ontario, Canada. Fare-collecting apparatus. No. 913,698; Mar. 2; Sp. p. 39; Gaz. vol. 140; p. 9.



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- Coleman, J. H., Tottenham, Ontario, Canada. Fare-collector. No. 927,451; July 6; Sp. p. 1510; Gaz. vol. 144; p. 250.
- Coleman, J. M., St. Lambert, Quebec, Canada. Brake-head. No. 920,434; May 4; Sp. p. 700; Gaz. vol. 142; p. 110.
- Coleman, J. M., St. Lambert, Quebec, Canada. Roller side bearing. No. 935,893; Oct. 5; Sp. p. 629; Gaz. vol. 147; p. 91.
- Coleman, J. M., assignor of one-half to C. G. Austin, Jr., St. Albans, Vt. Car-heater. No. 937,361; Oct. 19; Sp. p. 3663; Gaz. vol. 147; p. 630.
- Coleman, J. N., Pittsburgh, Pa. Stairway. No. 932,679; Aug. 31; Sp. p. 6471; Gaz. vol. 145; p. 1115.
- Coleman, J. P., New York, N. Y., assignor to Union Switch & Signal Company, Swissvale, Pa. Apparatus for selectively and automatically announcing the approach and destination of trains to a junction-point. No. 920,435; May 4; Sp. p. 701; Gaz. vol. 142; p. 111.
- Coleman, J. T. (See Johnson, C. A., assignor.)
- Coleman, L. A., assignor of one-third to E. D. Hobbs, Norfolk, Va. Spark-arrester. No. 940,955; Nov. 23; Sp. p. 5551; Gaz. vol. 148; p. 939.
- Coleman, L. A., assignor of one-third to J. E. Sebrell and one-third to H. Abrames, Norfolk, Va. Waterproofing composition. No. 944,233; Dec. 21; Sp. p. 4702; Gaz. vol. 149; p. 806.
- Coleman, R., Herndon, Va. Fish-stringing device. No. 928,427; July 20; Sp. p. 3589; Gaz. vol. 144; p. 635.
- Coleman, R. S., Sikeston, Mo. Stop device for engines. No. 918,507; Apr. 20; Sp. p. 3151; Gaz. vol. 141; p. 578.
- Coleman, S. H., assignor of one-half to D. W. Orr, Idabel, Okla. Nut-lock. No. 913,201; Feb. 23; Sp. p. 4493; Gaz. vol. 139; p. 809.
- Coleman, S. R. (See Fife and Coleman.)
- Coleman, T. A., Longville, assignor to C. T. Patterson Company, Ltd., New Orleans, La. Chain conveyer. No. 943,734; Dec. 21; Sp. p. 3676; Gaz. vol. 149; p. 639.
- Coleman, T. M., Falmouth, Ky. Hat-holder. No. 933,062; Sept. 7; Sp. p. 51; Gaz. vol. 146; p. 9.
- Coleman, W. H., assignor to Wilkinson Manufacturing Company, Binghamton, N. Y. Folding or collapsible sled. No. 938,300; Oct. 26; Sp. p. 5665; Gaz. vol. 147; p. 965.
- Coleman, W. T., Seattle, Wash. Automobile turn-table. No. 926,388; June 29; Sp. p. 6901; Gaz. vol. 143; p. 1215.
- Coles, A. S., Mamaronock, N. Y. Muffler. No. 929,656; Aug. 3; Sp. p. 20; Gaz. vol. 145; p. 6.
- Coles, D. H., Brooklyn, N. Y. Steering mechanism for self-propelled vehicles. No. 914,018; Mar. 2; Sp. p. 794; Gaz. vol. 140; p. 122.
- Coles, D. H., Brooklyn, N. Y. Steering-gear for motor-vehicles. No. 914,019; Mar. 2; Sp. p. 799; Gaz. vol. 140; p. 122.
- Coles, D. H., Brooklyn, N. Y. Steering and governing mechanism for motor-cars. No. 914,020; Mar. 2; Sp. p. 802; Gaz. vol. 140; p. 122.
- Coles, D. H., Brooklyn, N. Y. Internal-combustion engine. No. 933,960; Sept. 14; Sp. p. 2030; Gaz. vol. 146; p. 335.
- Coles, D. H., Brooklyn, N. Y. Spark-plug for gas-engines. No. 934,427; Sept. 21; Sp. p. 2944; Gaz. vol. 146; p. 514.
- Coles, D. H., Brooklyn, N. Y. Culinary utensil. No. 935,189; Sept. 28; Sp. p. 4459; Gaz. vol. 146; p. 793.
- Coles, I. R. (See Luckenbach, H., assignor.)
- Coley, N. T., Wilson, N. C. Coffee-roaster. No. 928,500; July 20; Sp. p. 3732; Gaz. vol. 144; p. 657.
- Colgan, E. J., *et al.* (See Beebe, E. C., assignor.)
- Colgan, E. J., Kansas City, Kans. Triple-feed-bag supporter. No. 925,624; June 22; Sp. p. 5286; Gaz. vol. 143; p. 929.
- Colgan, E. J., Kansas City, Kans. Feed-bag supporter. No. 910,644; Jan. 26; Sp. p. 4552; Gaz. vol. 138; p. 828.
- Colgrove, J. H., Buffalo, N. Y. Plastic compound for making burial-vaults. No. 925,301; June 15; Sp. p. 4660; Gaz. vol. 143; p. 796.
- Colidge, P., New York, N. Y. Adjusting device for supports. No. 942,545; Dec. 7; Sp. p. 1084; Gaz. vol. 149; p. 176.
- Coligny Hydraulic Transmission Co. (See De Coligny, F., assignor.)
- Coll, G. (See Flessa, G., assignor.)
- Collas, T. G., Seymour, Victoria, Australia. Collapsible crate. No. 937,422; Oct. 19; Sp. p. 3822; Gaz. vol. 147; p. 651.
- Colleen, I. H. P., Brooklyn, N. Y. Copy-holder. No. 938,978; Nov. 2; Sp. p. 1145; Gaz. vol. 148; p. 183.
- Colleen, I. H. P., Brooklyn, N. Y. Bill-holder. No. 941,559; Nov. 30; Sp. p. 6852; Gaz. vol. 148; p. 1160.
- Colleran, T. W., Toronto, Ontario, Canada. Elastic wire cable. No. 923,626; June 1; Sp. p. 1149; Gaz. vol. 143; p. 176.
- Collett, J. C., Dayton, Ohio. Horse-collar-stuffing machine. No. 930,043; Aug. 3; Sp. p. 884; Gaz. vol. 145; p. 142.
- Collett, J. C., and A. C. Jackson, assignors to Foglesong Machine Company, Dayton, Ohio. Horse-collar machine. No. 939,218; Nov. 9; Sp. p. 1655; Gaz. vol. 148; p. 292.
- Collette, E. J., Spencer, Mass. Box-opener. No. 933,364; Sept. 7; Sp. p. 751; Gaz. vol. 146; p. 117.
- Colley, G. H., assignor to J. Siegel, Detroit, Mich. Corset. No. 934,044; Sept. 14; Sp. p. 2178; Gaz. vol. 146; p. 361.
- Collicott, J., Salt Lake City, Utah. Iron heated by electricity. No. 942,308; Dec. 7; Sp. p. 599; Gaz. vol. 149; p. 95.
- Collier, A. T., St. Albans, assignor to PNeumatic Syndicate, Limited, London, England. Filling hollow elastic vehicle-tires with spongy material. No. 917,545; Apr. 6; Sp. p. 1148; Gaz. vol. 141; p. 200.
- Collier, A. T., St. Albans, assignor of one-fifth to H. S. Foster, London, England. Apparatus for cutting globoid worms. No. 921,593; May 11; Sp. p. 3058; Gaz. vol. 142; p. 525.
- Collier, D., assignor of four-tenths to G. K. Lutz, Birdsboro, Pa. Casting-ladle. No. 927,715; July 13; Sp. p. 2111; Gaz. vol. 144; p. 366.
- Collier, D. R., assignor to Collier-Keyworth Company, Gardner, Mass. Hood attachment for children's carriages. No. 914,114; Mar. 2; Sp. p. 981; Gaz. vol. 140; p. 155.
- Collier, D. R., assignor to Collier-Keyworth Company, Gardner, Mass. Perambulator. No. 929,560; July 27; Sp. p. 5889; Gaz. vol. 144; p. 1035.
- Collier, D. R., assignor to Collier-Keyworth Company, Gardner, Mass. Perambulator. No. 930,044; Aug. 3; Sp. p. 886; Gaz. vol. 145; p. 143.
- Collier, G. B., Kinderhook, N. Y. Heating apparatus. No. 935,743; Oct. 5; Sp. p. 252; Gaz. vol. 147; p. 41.
- Collier, H. B., Prairie Grove, Ark. Socket-post for supporting croquet-arches. No. 931,568; Aug. 17; Sp. p. 4076; Gaz. vol. 145; p. 702.
- Collier-Keyworth Company. (See Collier, D. R., assignor.)
- Collier, R. B., and J. S. Martin, Yeager, Okla. Churn. No. 916,845; Mar. 30; Sp. p. 6438; Gaz. vol. 140; p. 1149.
- Collin, F. J., Dortmund, Germany. Horizontal coke-oven. No. 915,660; Mar. 16; Sp. p. 4152; Gaz. vol. 140; p. 716.
- Collin, F. J., Dortmund, Germany. Recovering ammonia from coal-gases. No. 932,758; Aug. 31; Sp. p. 6633; Gaz. vol. 145; p. 1141.
- Collin, G. W., Mansfield, Ohio. Gage-cock. No. 911,379; Feb. 2; Sp. p. 694; Gaz. vol. 139; p. 119.
- Collin, G. W., Bridgeport, Conn. Electrically-operated valve. No. 926,389; June 29; Sp. p. 6902; Gaz. vol. 143; p. 1215.
- Collin, G. W., Bridgeport, Conn., assignor to Safety Car Heating and Lighting Company. Regulator. No. 914,115; Mar. 2; Sp. p. 984; Gaz. vol. 140; p. 155.
- Collin, G. W., Bridgeport, Conn., assignor to Safety Car Heating and Lighting Company. Pressure-regulator. No. 942,546; Dec. 7; Sp. p. 1088; Gaz. vol. 149; p. 176.
- Colling, C. J., Beaver, Pa. Cover for cooking utensils. No. 909,284; Jan. 12; Sp. p. 1743; Gaz. vol. 138; p. 313.
- Collings, H. E. H., Kulm, N. D. Chair. No. 928,107; July 13; Sp. p. 2898; Gaz. vol. 144; p. 494.
- Collings, H. H., Kulm, N. D. Nursery chair. No. 909,758; Jan. 12; Sp. p. 2672; Gaz. vol. 138; p. 471.
- Collins, B. H., Shreveport, La. Pen attachment. No. 916,107; Mar. 23; Sp. p. 5005; Gaz. vol. 140; p. 887.
- Collins, C., San Francisco, Cal. Fireproof building construction. (Reissue.) No. 12,922; Feb. 23; Sp. p. 5502; Gaz. vol. 139; p. 969.
- Collins, C. C., New York, N. Y. Wearing-apparel. No. 944,176; Dec. 21; Sp. p. 4603; Gaz. vol. 149; p. 789.
- Collins, C. G., Woodmere, assignor to C. A. Stevens, New York, N. Y. Extracting metal from ore. No. 919,129; Apr. 20; Sp. p. 4483; Gaz. vol. 141; p. 783.
- Collins, C. G., Woodmere, assignor to C. A. Stevens, New York, N. Y. Extracting copper from ores. No. 919,130; Apr. 20; Sp. p. 4485; Gaz. vol. 141; p. 783.
- Collins, C. H., Albany, N. Y. Advertising device. No. 941,012; Nov. 23; Sp. p. 5671; Gaz. vol. 148; p. 958.
- Collins, D. N., Colorado Springs, Colo. Scale extension. No. 940,130; Nov. 16; Sp. p. 3735; Gaz. vol. 145; p. 636.
- Collins, E., Chicago, Ill. Electric-light bath appliance. No. 924,040; June 8; Sp. p. 2052; Gaz. vol. 143; p. 341.
- Collins, G. D., Springfield, Mass. Door-fastener. No. 929,287; July 27; Sp. p. 5372; Gaz. vol. 144; p. 946.
- Collins, H. (See Sheets and Barlow, assignors.)
- Collins, H. B., assignor to Swift and Company, Chicago, Ill. Filler for egg-cases. No. 926,049; June 22; Sp. p. 6187; Gaz. vol. 143; p. 1068.
- Collins, H. L. (See Arbogast, J. I., assignor.)
- Collins, H. P., East Orange, N. J. Inhaler. No. 930,841; Aug. 10; Sp. p. 2496; Gaz. vol. 145; p. 432.
- Collins, J. D., Chicago, Ill., assignor, by mesne assignments, to Creamery Package Mfg. Company. Mechanism for freezers. No. 943,735; Dec. 21; Sp. p. 3677; Gaz. vol. 149; p. 639.
- Collins, J. F., Philadelphia, Pa. Puzzle. No. 943,390; Dec. 14; Sp. p. 2915; Gaz. vol. 149; p. 491.
- Collins, J. H., Harrisburg, Pa. Culinary utensil. No. 929,917; Aug. 3; Sp. p. 632; Gaz. vol. 145; p. 100.
- Collins, J. J., Clema, Pa. Spring-wheel. No. 917,845; Apr. 13; Sp. p. 1769; Gaz. vol. 141; p. 325.
- Collins, J. M. (See Doyle, W. J., assignor.)
- Collins, J. T., Hartford, Conn. Apparatus for making paper barrel-staves. No. 912,284; Feb. 16; Sp. p. 2592; Gaz. vol. 139; p. 478.
- Collins, J. T., Hartford, Conn. Making paper barrel-staves. No. 912,285; Feb. 16; Sp. p. 2593; Gaz. vol. 139; p. 478.
- Collins, J. T., Hartford, Conn. Apparatus for making shingles from paper-pulp. No. 928,501; July 20; Sp. p. 3734; Gaz. vol. 144; p. 657.
- Collins, N., *et al.* (See Kinder, G. A., assignor.)
- Collins, R. N., St. Louis, Mo. Wagon-seat riser. No. 936,414; Oct. 12; Sp. p. 1707; Gaz. vol. 147; p. 288.
- Collins, R. V., assignor to American Automatic Switch Company, New York, N. Y. Moisture-proof packing. No. 908,647; Jan. 5; Sp. p. 470; Gaz. vol. 138; p. 74.
- Collins, T., and E. L. Hartmann, assignors to American Separator Company, Bainbridge, N. Y. Centrifugal liquid-separator. No. 944,321; Dec. 28; Sp. p. 4911; Gaz. vol. 149; p. 865.

*Alphabetical list of patentees—Continued.*

- Collins, T., and E. L. Hartmann, assignors to American Separator Company, Bainbridge, N. Y. Centrifugal liquid-separator. No. 919,131; Apr. 20; Sp. p. 4488; Gaz. vol. 141; p. 784.
- Collins, T. E., Chicago, Ill. Fire-door. No. 926,978; July 6; Sp. p. 563; Gaz. vol. 144; p. 92.
- Collins, W., Hanford, Cal. Seal. No. 938,979; Nov. 2; Sp. p. 1148; Gaz. vol. 148; p. 183.
- Collins, W. E., assignor to J. B. Rice Seed Company, Cambridge, N. Y. Packing and display receptacle. No. 939,807; Nov. 9; Sp. p. 3002; Gaz. vol. 148; p. 494.
- Collins, W. J., assignor of one-half to D. H. Crown, New York, N. Y. Sausage twisting and linking machine. No. 938,215; Oct. 26; Sp. p. 5476; Gaz. vol. 147; p. 986.
- Collins, W. P., San Francisco, Cal. Spring-hinge. No. 936,090; Oct. 5; Sp. p. 1037; Gaz. vol. 147; p. 157.
- Collis, G., Dubuque, Iowa. Machine for bleaching and dyeing fabrics. No. 914,797; Mar. 9; Sp. p. 2403; Gaz. vol. 140; p. 403.
- Collis, H. J., Taunton, Mass. Ankle support and protector. No. 913,263; Feb. 23; Sp. p. 4623; Gaz. vol. 139; p. 829.
- Collis, H. J., Taunton, Mass. Wristband. No. 937,769; Oct. 26; Sp. p. 4532; Gaz. vol. 147; p. 785.
- Collis, J., Newark, N. J. Heating system. No. 931,037; Aug. 17; Sp. p. 2962; Gaz. vol. 145; p. 523.
- Collis, L., New York, N. Y. Amusement apparatus. No. 929,753; Aug. 3; Sp. p. 254; Gaz. vol. 145; p. 43.
- Collison, J., assignor of one-half to B. R. Craycroft, Evansville, Ind. Printing-machine. No. 925,458; June 22; Sp. p. 4961; Gaz. vol. 143; p. 876.
- Collison, T. A., Lebanon, Pa. Railway-car bolster. No. 918,736; Apr. 20; Sp. p. 3697; Gaz. vol. 141; p. 656.
- Collyer, W. C. (See Parker and Collyer.)
- Colman, G. A., Seattle, Wash. Inductor dynamo. No. 937,675; Oct. 19; Sp. p. 4312; Gaz. vol. 147; p. 735.
- Colman, H. D., assignor to Barber-Colman Company, Rockford, Ill. Warp-carriage. No. 938,124; Oct. 26; Sp. p. 5282; Gaz. vol. 147; p. 904.
- Colman, H. D., assignor to Barber-Colman Company, Rockford, Ill. Warp-carriage. No. 942,247; Dec. 7; Sp. p. 472; Gaz. vol. 149; p. 73.
- Colman, W. H., Paducah, Ky. Churn-operating mechanism. No. 918,508; Apr. 20; Sp. p. 3152; Gaz. vol. 141; p. 578.
- Colona Manufacturing Company. (See White, B. C., assignor.)
- Colonial Fireplace Company. (See Guy, W. W., assignor.)
- Colorado Iron Works Company. (See Fitts, N. V., assignor.)
- Colorado Iron Works Company. (See Gross, F. D., assignor.)
- Colorado Iron Works Company. (See Nesmith, J. W., assignor.)
- Colorado Pressed Steel Co. (See Lees, J. R., assignor.)
- Colpitts, C. N., assignor to American Shade Machine Company, Boston, Mass. Cloth cutting and folding machine. No. 931,996; Aug. 24; Sp. p. 5039; Gaz. vol. 145; p. 863.
- Colt, A. M., assignor of one-third to J. R. Colt, Batavia, N. Y. Lifting-jack. No. 922,856; May 25; Sp. p. 5687; Gaz. vol. 142; p. 996.
- Colt, G. H., West Hampstead, England. Agricultural machine for rolling, mowing, and other similar operations. No. 941,309; Nov. 23; Sp. p. 6312; Gaz. vol. 148; p. 1056.
- Colt, J. R. (See Colt, A. M., assignor.)
- Colt, W. A., *et al.* (See Kite, W., assignor.)
- Colthar, W. U. (See Pfeiffer, F. A., assignor.)
- Colton, T. C., Griswold, Manitoba, Canada. Soap-dish. No. 910,785; Jan. 26; Sp. p. 4825; Gaz. vol. 138; p. 872.
- Coltrin, R. B., Jackson, Mich. Feed-regulator. No. 932,110; Aug. 24; Sp. p. 5290; Gaz. vol. 145; p. 902.
- Colt's Patent Fire Arms Manufacturing Company. (See Ehbets, C. J., assignor.)
- Columbia, C. L., Orange, Cal. Railway-spike. No. 931,272; Aug. 17; Sp. p. 3496; Gaz. vol. 145; p. 605.
- Columbia Engineering Works. (See Alger, P. E., assignor.)
- Columbia Jewelry Company. (See Viano, F., assignor.)
- Columbia Machine Works & Malleable Iron Co. (See Remellus, C., assignor.)
- Columbia Postal Supply Company. (See Ielfield, F. C., assignor.)
- Columbia School Supply Company. (See Moore, J. C., assignor.)
- Columbia Steel Company. (See Hesse, F., assignor.)
- Columbian Hardware Company. (See Hess, H. L., assignor.)
- Columbiana Pump Co. (See Strickler, D., assignor.)
- Columbus Heating and Ventilating Company. (See Ebinger, D. A., assignor.)
- Columbus Machine Company. (See Frayer, L. A., assignor.)
- Columbus Pharmaceutical Company. (See Odgers, H. T., assignor.)
- Colver, F. A., Frankfort, Ind. Metallic fence-post. No. 928,108; July 13; Sp. p. 2899; Gaz. vol. 144; p. 495.
- Colvin, C. R. (See Colvin, F. R. and C. R.)
- Colvin, F. R., and C. R., Lansing, Mich. Tire-protector. No. 939,474; Nov. 9; Sp. p. 2290; Gaz. vol. 148; p. 379.
- Colwell, E., Jr., Greensboro, N. C. Coin-controlled type-writer. No. 923,142; June 1; Sp. p. 35; Gaz. vol. 143; p. 7.
- Colwell, E., Jr., Greensboro, N. C. Coin-controlled type-writer locking mechanism. No. 923,143; June 1; Sp. p. 40; Gaz. vol. 143; p. 7.
- Colwell, S. H., Wallace, N. C. Conveying apparatus. No. 915,413; Mar. 16; Sp. p. 3619; Gaz. vol. 140; p. 630.
- Colwitz, C., Shiocton, Wis. Machine for molding concrete blocks. No. 940,131; Nov. 16; Sp. p. 3737; Gaz. vol. 148; p. 637.
- Colyar, W. H., assignor to Parr-Colyar Warehouse Supply Company, San Francisco, Cal. Car-moving device. No. 943,654; Dec. 21; Sp. p. 3520; Gaz. vol. 149; p. 613.
- Combined Automatic Signaling and Telephone System. (See Salisbury, E. E., assignor.)
- Combs, A. E., Johnson, Kans. Corn-harvester. No. 917,846; Apr. 13; Sp. p. 1771; Gaz. vol. 141; p. 325.
- Combs, E. U., assignor to Pneumatic Water Lift Power & Irrigation Company, Denver, Colo. Rotary pump. No. 932,446; Aug. 31; Sp. p. 5942; Gaz. vol. 145; p. 1036.
- Combs, I. D. (See Combs, J. G. O. and I. D.)
- Combs, J. G. O. and I. D., Walnut Grove, Wis. Electric block-signal. No. 908,748; Jan. 5; Sp. p. 679; Gaz. vol. 138; p. 105.
- Combs, J. G. O. and I. D., Walnut Grove, Wis. Railway-gate. No. 908,749; Jan. 5; Sp. p. 681; Gaz. vol. 138; p. 106.
- Combs, R. L., Kerrville, Tex. Surgical instrument. No. 929,833; Aug. 3; Sp. p. 431; Gaz. vol. 145; p. 72.
- Combs, W. D., Canon City, Colo. Washing-machine. No. 932,759; Aug. 31; Sp. p. 6634; Gaz. vol. 145; p. 1141.
- Combustion Utilities Company. (See Doherty, H. L., assignor.)
- Combustion Utilities Company. (See Eldred, B. E., assignor.)
- Cornier, J. H., Corners Rock, Va. Invalid-bed. No. 941,620; Nov. 30; Sp. p. 6978; Gaz. vol. 148; p. 1180.
- Cornier, J. J., assignor to G. R. Webb, Baltimore, Md. Multiplex transmitter. No. 943,915; Dec. 21; Sp. p. 4055; Gaz. vol. 149; p. 702.
- Cornier, T. (See Skelly, J. M. J., assignor.)
- Cormerma, J., assignor to H. W. Bell, New York, N. Y. Reinforced fireproof partition. No. 922,393; May 18; Sp. p. 4715; Gaz. vol. 142; p. 817.
- Comfort-Bennor Tie Company. (See Bennor, J., assignor.)
- Comfort-Bennor Tie Company. (See Comfort, D., assignor.)
- Comfort, D., assignor to Comfort-Bennor Tie Company, Tifton, Ga. Package-tie. No. 924,146; June 8; Sp. p. 2274; Gaz. vol. 143; p. 376.
- Comfort, E. W. (See Carrier and Comfort.)
- Comfort E. W., assignor to National Regulator Company, Chicago, Ill. Thermostat. No. 912,286; Feb. 16; Sp. p. 2595; Gaz. vol. 139; p. 478.
- Comfort, E. W., assignor to National Regulator Company, Chicago, Ill. Thermostat. No. 912,287; Feb. 16; Sp. p. 2600; Gaz. vol. 139; p. 479.
- Comfort, E. W., assignor to National Regulator Company, Chicago, Ill. Thermostat. No. 912,288; Feb. 16; Sp. p. 2604; Gaz. vol. 139; p. 479.
- Comfort, E. W., Merchantville, N. J., assignor to Warren Webster & Company. Water and air valve for steam-heating systems. No. 923,333; June 1; Sp. p. 518; Gaz. vol. 143; p. 74.
- Comfort, E. W., and J. L. Fitts, Pensauken township, Camden county, N. J., assignors to Warren Webster & Company. Modulation-valve for steam-heating systems. No. 929,657; Aug. 3; Sp. p. 22; Gaz. vol. 145; p. 6.
- Comfort, W. J., Brooklyn, N. Y. Mechanical motor. No. 914,926; Mar. 9; Sp. p. 2649; Gaz. vol. 140; p. 444.
- Comings, W. R., Wimbledon Park, England. Closure. No. 911,380; Feb. 2; Sp. p. 696; Gaz. vol. 139; p. 119.
- Comings, W. R., Wimbledon Park, England. Distributing-receptacle. No. 915,742; Mar. 23; Sp. p. 4328; Gaz. vol. 140; p. 769.
- Comins, F. B., Sharon, Mass. Humidifier. No. 931,845; Aug. 24; Sp. p. 4699; Gaz. vol. 145; p. 814.
- Comins, F. B., Sharon, Mass. Humidifier. No. 942,712; Dec. 7; Sp. p. 1406; Gaz. vol. 149; p. 230.
- Commander, H., Milwaukee, Wis. Hydraulic motor. No. 917,546; Apr. 6; Sp. p. 1149; Gaz. vol. 141; p. 201.
- Commercial Acetylene Company. (See Bruckner, R. E., assignor.)
- Commercial Manufacturing Company. (See Rice, L. E., assignor.)
- Commonwealth Steel Company. (See Bawden and Thomas, assignors.)
- Commonwealth Steel Company. (See Pfleger, H. M., assignor.)
- Commonwealth Steel Company. (See Schwartz, C. L., assignor.)



*Alphabetical list of patentees—Continued.*

- Commonwealth Steel Company. (See Washburn, E. C., assignor.)  
 Compagnie Francaise des Produits Fixator. (See Quillot, M., assignor.)  
 Compagnie Generale De Phonographes, Cinematographes & Appareils De Precision. (See Ivatts, E. A., assignor.)  
 Compagnie Internationale La Norgine. (See Hermann, E., assignor.)  
 Company Itala, Fabbrica di Automobili. (See Balloca, E., assignor.)  
 Company Wülffing Dahl & Co., Actiengesellschaft, Farbenfabriken. (See Ulrichs, E., assignor.)  
 Complex Aural Company. (See Valiquet, L. P., assignor.)  
 Compton, A. J., Trenton, N. J. Adjustable paint-brush holder. No. 918,420; Apr. 13; Sp. p. 2951; Gaz. vol. 141; p. 520.  
 Compton, A. J., Trenton, N. J. Putty-knife. No. 929,194; July 27; Sp. p. 5165; Gaz. vol. 144; p. 916.  
 Compton, F. W., Lamport, Colo. Hay-loader. No. 944,017; Dec. 21; Sp. p. 4279; Gaz. vol. 149; p. 737.  
 Compton, H. B., Denver, and W. W. Ramsey, Como, Colo. Acetylene-gas generator. No. 924,533; June 8; Sp. p. 3088; Gaz. vol. 143; p. 505.  
 Compton, H. F. (See Berray, G. E., assignor.)  
 Computing Scale Company. (See Good, J. L., assignor.)  
 Computing Scale Company. (See Ozias, O. O., assignor.)  
 Comrie, E. P., Gloversville, N. Y. Focusing-hood for cameras. No. 936,307; Oct. 12; Sp. p. 1457; Gaz. vol. 147; p. 252.  
 Comsa, D. I., Salem, Ohio. Swarm-catcher. No. 916,108; Mar. 23; Sp. p. 5006; Gaz. vol. 140; p. 887.  
 Comsa, D. I., Salem, Ohio. Beehive. No. 936,604; Oct. 12; Sp. p. 2117; Gaz. vol. 147; p. 352.  
 Comstock, C., Ridgewood, N. J. Lubricator for graphite. No. 919,322; Apr. 27; Sp. p. 5071; Gaz. vol. 141; p. 880.  
 Comstock, D. F., Brookline, and J. T. Kalmus, Boston, Mass. Speed-measuring machine. No. 942,132; Dec. 7; Sp. p. 228; Gaz. vol. 149; p. 35.  
 Comstock, F. E. (See Dodd and Comstock.)  
 Comstock, J. K. (See Hutchins, N. A., assignor.)  
 Comtograph Company. (See Wetmore, C. F., assignor.)  
 Conant, F. N., assignor to Chase-Shawmut Co., Newburyport, Mass. Electric-current indicator. No. 913,105; Feb. 23; Sp. p. 4288; Gaz. vol. 139; p. 777.  
 Conarton, E. W., Jersey City, N. J. Tool for stopping run-outs in molds. No. 924,740; June 15; Sp. p. 3545; Gaz. vol. 143; p. 608.  
 Conaway, W. B., and C. L. Stevens, Aurora, Ind. Photographic-printing apparatus. No. 918,509; Apr. 20; Sp. p. 3154; Gaz. vol. 141; p. 579.  
 Conboie, J. A., Colma, Cal. Can-cap-soldering machine. No. 935,462; Sept. 28; Sp. p. 4991; Gaz. vol. 146; p. 882.  
 Conboy, F. J., Auburn, N. Y. Composition of matter. No. 939,982; Nov. 16; Sp. p. 3383; Gaz. vol. 148; p. 583.  
 Concoff, I. R., and R. S. Lovett, Portland, Oreg. Ladder. No. 926,642; June 29; Sp. p. 7363; Gaz. vol. 143; p. 1299.  
 Conde, B. (See Condé, S. L., assignor.)  
 Condé, C. A. (See Budd and Condé.)  
 Condé, S. L., assignor to B. Conde, Cleveland, Ohio. Fulcrum attachment for forks and spades. No. 931,387; Aug. 17; Sp. p. 3745; Gaz. vol. 145; p. 646.  
 Condell, M. J., H. C. Beck, and F. H. Dannenberg, Chicago, Ill.; said Dannenberg assignor to said Condell and said Beck. Meat-hanger. No. 940,924; Nov. 23; Sp. p. 5477; Gaz. vol. 148; p. 929.  
 Conder, C. E., Cambridge, Mass. Blacking-box. No. 914,638; Mar. 9; Sp. p. 2059; Gaz. vol. 140; p. 350.  
 Condit, A. M., East Orange, N. J. Removable tire for vehicles. No. 924,429; June 8; Sp. p. 2881; Gaz. vol. 143; p. 471.  
 Condit, L. C., Catonsville, Md. Means for packing waste in journal-boxes. No. 936,704; Oct. 12; Sp. p. 2324; Gaz. vol. 147; p. 386.  
 Condit, W. D. (See Searle, E. H., assignor.)  
 Condit, W. J., *et al.* (See Bennett, G. L., assignor.)  
 Condon, D. J., Goodland, Ind. Canopy for draft-animals. No. 923,021; May 25; Sp. p. 6022; Gaz. vol. 142; p. 1049.  
 Condon, G. V., assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Heel-band for bed-lasting machines and the like. No. 924,967; June 15; Sp. p. 4025; Gaz. vol. 143; p. 685.  
 Condon, H. C., *et al.* (See Keith, G. P., assignor.)  
 Condon, S. E., New York, N. Y. Stuffing-box. No. 911,807; Feb. 9; Sp. p. 1535; Gaz. vol. 139; p. 286.  
 Condon, S. E., New York, N. Y. Packing. No. 911,808; Feb. 9; Sp. p. 1538; Gaz. vol. 139; p. 286.  
 Condon, W., and A. Barrett, Kansas City, Mo. Anti-induction method for telephone systems. No. 910,176; Jan. 19; Sp. p. 3512; Gaz. vol. 138; p. 642.  
 Condon, W., and A. Barrett, Kansas City, Mo. Anti-induction telephone system. No. 910,177; Jan. 19; Sp. p. 3518; Gaz. vol. 138; p. 642.  
 Condray, A. L., Pine Bluff, Ark. Shingle-painting device. No. 911,381; Feb. 2; Sp. p. 698; Gaz. vol. 139; p. 120.  
 Cone, W. H., assignor to Coal Products and Power Company, Detroit, Mich. Manufacturing gas. No. 922,857; May 25; Sp. p. 5689; Gaz. vol. 142; p. 997.  
 Conekin, D., St. Petersburg, assignor of one-half to P. A. Larche, Tampa, Fla. Safety-razor-blade holder. No. 940,516; Nov. 16; Sp. p. 4609; Gaz. vol. 148; p. 769.  
 Confectioners and Bakers Supply Co. (See Dickson, G. F., assignor.)  
 Confectioners' Machinery & Manufacturing Company. (See Bausman, A. L., assignor.)  
 Congdon, G. A., West Somerville, Mass. Sineu-extractor. No. 941,759; Nov. 30; Sp. p. 7291; Gaz. vol. 148; p. 1228.  
 Congdon, G. E., Jacksonville, N. Y. Air-brake system. No. 936,415; Oct. 12; Sp. p. 1708; Gaz. vol. 147; p. 288.  
 Congdon, H. A., Slocum, R. I. Hoe. No. 932,249; Aug. 24; Sp. p. 5565; Gaz. vol. 145; p. 948.  
 Conger, C. P., New York, N. Y. Toast-rack. No. 940,303; Nov. 16; Sp. p. 4128; Gaz. vol. 148; p. 696.  
 Conger, G. S., and C. Pearce, assignors to Eltypic Manufacturing Company, New York, N. Y. Paper-feed mechanism. No. 918,013; Apr. 13; Sp. p. 2145; Gaz. vol. 141; p. 386.  
 Conger, J. H. B., assignor to Tea Tray Company, Newark, N. J. Amplifying-horn. No. 917,252; Apr. 6; Sp. p. 601; Gaz. vol. 141; p. 103.  
 Conger, J. H. B., assignor to Tea Tray Company, Newark, N. J. Horn-crane. No. 924,635; June 15; Sp. p. 3323; Gaz. vol. 143; p. 572.  
 Conger, J. H. B., Newark, N. J., assignor to Tea Tray Company of Newark, N. J. Horn-crane. No. 944,018; Dec. 21; Sp. p. 4280; Gaz. vol. 149; p. 737.  
 Conger, N. H., Minneapolis, Minn. Railway-tie. No. 921,510; May 11; Sp. p. 2915; Gaz. vol. 142; p. 510.  
 Conger, N. H., Minneapolis, Minn. Window-sash support. No. 928,362; July 20; Sp. p. 3475; Gaz. vol. 144; p. 613.  
 Conibear, G., Wiscovy, N. Y. Excavating-tooth. No. 916,271; Mar. 23; Sp. p. 5305; Gaz. vol. 140; p. 939.  
 Conig, B. H., *et al.* (See Costello, P. H., assignor.)  
 Conkell, E. W., assignor of one-fourth to W. A. Hammerly and one-fourth to J. J. Hein, Canton, Ohio. Duplex steam-engine. No. 929,658; Aug. 3; Sp. p. 24; Gaz. vol. 145; p. 7.  
 Conkey, S. H., Minneapolis, Minn. Rotary explosive-engine. No. 921,802; May 18; Sp. p. 3517; Gaz. vol. 142; p. 624.  
 Conklin, A. M., *et al.* (See Conklin, E. A., assignor.)  
 Conklin, C., New York, N. Y. Hoisting apparatus. No. 923,022; May 25; Sp. p. 6024; Gaz. vol. 142; p. 1049.  
 Conklin, C. M., assignor to Lunken Steel Window Co., Cincinnati, Ohio. Sash-weight. No. 913,470; Feb. 23; Sp. p. 5038; Gaz. vol. 139; p. 900.  
 Conklin, E. A., Shelby, Mich., assignor of one-half to W. Graham, Harrison Valley, Pa., and A. M. Conklin, Grant, Mich. Harrow. No. 944,415; Dec. 28; Sp. p. 5118; Gaz. vol. 149; p. 899.  
 Conklin, E. J. (See Schrade and Conklin.)  
 Conklin, G. W., Shelton, Conn. Lifting-board for drop-hammers. No. 940,956; Nov. 23; Sp. p. 5552; Gaz. vol. 148; p. 940.  
 Conkling Company. (See Hawley, C. G., assignor.)  
 Conkling Company. (See Snow, F., assignor.)  
 Conkling, D. C. (See Smith and Conkling.)  
 Conkling, D. H., Fort Pierce, Fla. Fire-extinguisher. No. 936,985; Oct. 12; Sp. p. 2864; Gaz. vol. 147; p. 478.  
 Conlan, D., Jr., New York, assignor to E. Conlan, Brooklyn, N. Y. Junction, wall, floor, or other box. No. 936,705; Oct. 12; Sp. p. 2325; Gaz. vol. 147; p. 386.  
 Conlan, E. (See Conlan, D., Jr., assignor.)  
 Conlan, W. J., *et al.* (See Herr, C. H., assignor.)  
 Conley, A., Peytona, W. Va. Book-clasp. No. 922,858; May 25; Sp. p. 5691; Gaz. vol. 142; p. 997.  
 Conley, E., Norristown, Pa. Water-pressure-regulating valve. No. 927,492; July 13; Sp. p. 1618; Gaz. vol. 144; p. 291.  
 Conley, E. T., U. S. Army. Individual intrenching or prospector's tool. No. 919,132; Apr. 20; Sp. p. 4490; Gaz. vol. 141; p. 784.  
 Conley, E. V., 2d, Kearney, N. J. Automatic bleeder for air-brake systems. No. 940,676; Nov. 23; Sp. p. 4958; Gaz. vol. 148; p. 846.  
 Conley, G. B., Cleveland, Ohio. Box or carton. No. 936,986; Oct. 12; Sp. p. 2857; Gaz. vol. 147; p. 479.  
 Conley, J., Anadarko, Okla. Latrine-incinerator. No. 926,099; June 29; Sp. p. 6307; Gaz. vol. 143; p. 1120.  
 Conley, J., Anadarko, Okla. Latrine-incinerator. No. 926,100; June 29; Sp. p. 6309; Gaz. vol. 143; p. 1121.  
 Conley, J., Anadarko, Okla. Garbage-receptacle. No. 930,842; Aug. 10; Sp. p. 2498; Gaz. vol. 145; p. 433.  
 Conley, J. A. (See Allen and Conley.)  
 Conney, F. W., Wyoming, Iowa. Fuel-economizer. No. 918,970; Apr. 20; Sp. p. 4198; Gaz. vol. 141; p. 733.

*Alphabetical list of patentees—Continued.*

- Conn, C. A. (See Elliott, Conn, and Holt.)
- Conn, C. A. (See Mills and Conn.)
- Conn, C. G., Elkhart, Ind. Bell-mute for cornets. No. 911,940; Feb. 9; Sp. p. 1789; Gaz. vol. 139; p. 329.
- Conn, C. G., Elkhart, Ind. Valve for cornets. No. 923,812; June 8; Sp. p. 1624; Gaz. vol. 143; p. 269.
- Conn, C. G., Elkhart, Ind. Rotary machine. No. 931,038; Aug. 17; Sp. p. 2966; Gaz. vol. 145; p. 524.
- Conn, C. G., Elkhart, Ind. Rotary valve for wind musical instruments. No. 931,039; Aug. 17; Sp. p. 2968; Gaz. vol. 145; p. 525.
- Conn, C. G., Elkhart, Ind. Brass wind musical instrument. No. 931,273; Aug. 17; Sp. p. 3497; Gaz. vol. 145; p. 605.
- Connecticut Auto Engineering Corporation. (See Cuno, C., assignor.)
- Connecticut Mill Supply Company. (See Coe, J. R., assignor.)
- Connecticut Telephone & Electric Company. (See Lawton, B. L., assignor.)
- Connecticut Telephone & Electric Company. (See Wilcox, E. C., assignor.)
- Connecticut Telephone & Electric Company. (See Wilson, J. M., assignor.)
- Connecticut Web and Buckle Company. (See Oppenheim, A., assignor.)
- Connell, D. G., Corry, Pa. Wrench. No. 912,993; Feb. 23; Sp. p. 4077; Gaz. vol. 139; p. 739.
- Connell, D. W., assignor to Pontiac Buggy Company, Pontiac, Mich. Shifting-rail. No. 914,702; Mar. 9; Sp. p. 2212; Gaz. vol. 140; p. 371.
- Connell, J. and W., Climax Springs, Mo. Brake-lever. No. 930,045; Aug. 3; Sp. p. 888; Gaz. vol. 145; p. 143.
- Connell, J. F., Los Angeles, Cal. Apparatus for storing, supplying, and utilizing mineral oils, &c. No. 930,268; Aug. 3; Sp. p. 1309; Gaz. vol. 145; p. 216.
- Connell, W. (See Connell, J. and W.)
- Connell, W. B., assignor of one-third to J. J. McGraw and one-third to A. A. Shideman, Chicago, Ill. Tire. No. 936,416; Oct. 12; Sp. p. 1711; Gaz. vol. 147; p. 288.
- Connolly, O. M., and G. W. Rudolph, Philadelphia, Pa. Amusement apparatus. No. 923,334; June 1; Sp. p. 519; Gaz. vol. 143; p. 74.
- Conner, A. E., Knoxville, Tenn. Cooking utensil. No. 917,413; Apr. 6; Sp. p. 915; Gaz. vol. 141; p. 159.
- Conner, C. H. (See Paul, W. C., assignor.)
- Conner, C. W., Indianapolis, Ind. Method of producing bifocal lenses. No. 925,802; June 22; Sp. p. 5698; Gaz. vol. 143; p. 987.
- Conner, C. W., Indianapolis, Ind. Solid bifocal lens. No. 932,965; Aug. 31; Sp. p. 7021; Gaz. vol. 145; p. 1207.
- Conner, E. A., Tacoma, Wash. Mold and means for making the same. No. 915,555; Mar. 16; Sp. p. 3927; Gaz. vol. 140; p. 677.
- Conner, F., Tecumseh, assignor of one-half to W. Davis, Topeka, Kans. Door-opener. No. 909,552; Jan. 12; Sp. p. 2259; Gaz. vol. 138; p. 401.
- Conner, G. F., Port Huron, Mich. Conveyor-chain. No. 908,750; Jan. 5; Sp. p. 682; Gaz. vol. 138; p. 106.
- Conner, H. W., Boston, assignor, by mesne assignments, to S. G. Conner, Reading, Mass. Camera. No. 941,696; Nov. 30; Sp. p. 7144; Gaz. vol. 148; p. 1206.
- Conner, L. H., Altus, Okla. Press. No. 939,475; Nov. 9; Sp. p. 2291; Gaz. vol. 148; p. 379.
- Conner, M. S., assignor to Stromberg Carlson Telephone Manufacturing Company, Rochester, N. Y. Harmonic ringer. No. 915,334; Mar. 16; Sp. p. 3464; Gaz. vol. 140; p. 604.
- Conner, M. S., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Switching apparatus. No. 926,175; June 29; Sp. p. 6475; Gaz. vol. 143; p. 1147.
- Conner, S. G. (See Conner, H. W., assignor.)
- Connorsville Blower Co. (See Wilkin, J. T., assignor.)
- Connet, F. N., Providence, R. I. Integrating device and recording-manometer. No. 920,025; Apr. 27; Sp. p. 6545; Gaz. vol. 141; p. 1116.
- Connet, F. N., Providence, R. I. Grinding-machine. No. 926,101; June 29; Sp. p. 6311; Gaz. vol. 143; p. 1121.
- Connet, F. N., Providence, R. I. Rate-regulating device for fluids. No. 930,158; Aug. 3; Sp. p. 1128; Gaz. vol. 145; p. 184.
- Connet, F. N., Providence, R. I. Dynamometer. No. 931,274; Aug. 17; Sp. p. 3497; Gaz. vol. 145; p. 606.
- Connet, F. N., Providence, R. I. Meter for liquids and gases. No. 934,504; Sept. 21; Sp. p. 3090; Gaz. vol. 146; p. 539.
- Connet, F. N., Providence, R. I. Indicator device for reservoir-filters. No. 941,061; Nov. 23; Sp. p. 5772; Gaz. vol. 148; p. 974.
- Connet, F. N., Providence, R. I. Meter. No. 944,417; Dec. 28; Sp. p. 5120; Gaz. vol. 149; p. 899.
- Connet, F. N., and A. W. Graham, assignors to Builders Iron Foundry, Providence, R. I. Valve. No. 944,416; Dec. 28; Sp. p. 5119; Gaz. vol. 149; p. 899.
- Connolly, F. M. (See Slaven, J. W., assignor.)
- Connolly, F. M., New Haven, Conn. Pen-feeder. No. 944,177; Dec. 21; Sp. p. 4604; Gaz. vol. 149; p. 790.
- Connolly, J. B. (See Connolly, T. A. and J. B.)
- Connolly, J. B., Washington, D. C. Alarm-clock. No. 930,939; Aug. 10; Sp. p. 2713; Gaz. vol. 145; p. 464.
- Connolly, J. B., Washington, D. C. Alarm-watch. No. 944,948; Dec. 28; Sp. p. 6274; Gaz. vol. 149; p. 1078.
- Connolly, S. F., and V. Osborne, London, England. Planimeter. No. 917,547; Apr. 6; Sp. p. 1151; Gaz. vol. 141; p. 201.
- Connolly, T. A. and J. B., Washington, D. C. Repeating watch. No. 933,696; Sept. 7; Sp. p. 1499; Gaz. vol. 146; p. 226.
- Connor, A., Montezuma, Ind. Drain-tile trimmer. No. 913,620; Feb. 23; Sp. p. 5377; Gaz. vol. 139; p. 950.
- Connor Gorham Company. (See Gorham, F. C., assignor.)
- Connor, H. P., Englewood, N. J. Door-catch. No. 914,798; Mar. 9; Sp. p. 2404; Gaz. vol. 140; p. 404.
- Connor, J. A., Grogan, Ohio. Wheel tire-rim. No. 909,368; Jan. 12; Sp. p. 1900; Gaz. vol. 138; p. 339.
- Connor, J. H., Nashville, Tenn. Making fertilizer. No. 931,846; Aug. 24; Sp. p. 4701; Gaz. vol. 145; p. 814.
- Connor, J. T., O. Carter, and A. Ray, Barstow, Cal. Railway-tie plate. No. 919,133; Apr. 20; Sp. p. 4493; Gaz. vol. 141; p. 785.
- Connor, M., Pueblo, Colo. Steam-generator. No. 943,916; Dec. 21; Sp. p. 4058; Gaz. vol. 149; p. 703.
- Connor, M. A., Lockport, N. Y. Pipe-coupling. No. 931,914; Aug. 24; Sp. p. 4879; Gaz. vol. 145; p. 836.
- Connors, J. J. (See Danglemyer and Connors.)
- Connolly, J., Aidan, assignor of one-half to P. J. McDevitt, Philadelphia, Pa. Game-board. No. 921,366; May 11; Sp. p. 2631; Gaz. vol. 142; p. 452.
- Conover, E. K., Paterson, N. J., assignor, by mesne assignments, to C. A. Mezger, Incorporated, Brooklyn, N. Y. Wind-screen. No. 917,752; Apr. 13; Sp. p. 1567; Gaz. vol. 141; p. 296.
- Conover, E. K., Paterson, N. J., assignor, by mesne assignments, to C. A. Mezger, Incorporated, Brooklyn, N. Y. Wind-screen. No. 935,190; Sept. 28; Sp. p. 4460; Gaz. vol. 146; p. 793.
- Conover, I. S., North Tarrytown, N. Y. Siding. No. 941,358; Nov. 30; Sp. p. 6422; Gaz. vol. 148; p. 1094.
- Conover, J. B., Jersey City, N. J., assignor to Dairymen's Manufacturing Company. Milk-can. No. 917,253; Apr. 6; Sp. p. 602; Gaz. vol. 141; p. 104.
- Conover, J. B., Jersey City, N. J., assignor to Dairymen's Manufacturing Company. Can-marking machine. No. 943,140; Dec. 14; Sp. p. 2397; Gaz. vol. 149; p. 408.
- Conover, J. F., Chicago, Ill. Piano tuning-pin. No. 921,203; May 11; Sp. p. 2268; Gaz. vol. 142; p. 398.
- Conrad, B. B., assignor to American Numbering Machine Company, Brooklyn, N. Y. Dating-machine. No. 928,740; July 20; Sp. p. 4234; Gaz. vol. 144; p. 737.
- Conrad, B. B., and F. Sander, New York, assignors to American Numbering Machine Company, Brooklyn, N. Y. Typographic numbering-machine. No. 920,917; May 11; Sp. p. 1686; Gaz. vol. 142; p. 300.
- Conrad, B. B., and F. Sander, Brooklyn, and F. W. Wright, Bronxville, assignors to American Numbering Machine Company, Brooklyn, N. Y. Removable type for numbering-wheels. No. 923,773; June 1; Sp. p. 1474; Gaz. vol. 143; p. 225.
- Conrad, F., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric heating apparatus. No. 912,994; Feb. 23; Sp. p. 4079; Gaz. vol. 139; p. 740.
- Conrad, F., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Voltage-regulator. No. 923,627; June 1; Sp. p. 1150; Gaz. vol. 143; p. 176.
- Conrad, F., Swissvale, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. System for vapor electric apparatus. No. 931,114; Aug. 17; Sp. p. 3139; Gaz. vol. 145; p. 549.
- Conrad, F., Swissvale, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. System of distribution for mercury-vapor rectifiers. No. 931,115; Aug. 17; Sp. p. 3142; Gaz. vol. 145; p. 550.
- Conrad, F., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Overload and reverse current relay device. No. 933,746; Sept. 14; Sp. p. 1615; Gaz. vol. 146; p. 266.
- Conrad, F., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Overload and reverse current relay device. No. 934,390; Sept. 14; Sp. p. 2863; Gaz. vol. 146; p. 478.
- Conrad, F., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Overload and reverse current relay device. No. 934,391; Sept. 14; Sp. p. 2867; Gaz. vol. 146; p. 478.
- Conrad, F., Swissvale, Pa., assignor to Westinghouse Electric Manufacturing Company. Electrical system. No. 934,596; Sept. 21; Sp. p. 3261; Gaz. vol. 146; p. 569.
- Conrad, F. C., Jr. (See Sullivan, J. D., assignor.)
- Conrad, I., Philadelphia, Pa. Strop for safety-razor blades. No. 932,536; Aug. 31; Sp. p. 6147; Gaz. vol. 145; p. 1066.
- Conrad, I., Philadelphia, Pa. Strop for razor-blades. No. 939,219; Nov. 9; Sp. p. 1657; Gaz. vol. 148; p. 292.
- Conrad, M., assignor of one-half to C. Schuttler, Chicago, Ill. Making wheel-fellies. No. 925,868; June 22; Sp. p. 5840; Gaz. vol. 143; p. 1010.



*Alphabetical list of patentees—Continued.*

- Conrad, R. D. (See Gehring and Conrad.)
- Conrad, R. D., and J. Gehring; said Gehring assignor, by mesne assignments, to Winner Natural Gas Burner Company, Pittsburg, Pa. Burner. No. 943,917; Dec. 21; Sp. p. 4060; Gaz. vol. 149; p. 703.
- Conrad, S. J., Cedar Rapids, Iowa. Insulator for electrically-charged wires. No. 912,364; Feb. 16; Sp. p. 2767; Gaz. vol. 139; p. 504.
- Conrad, W. M., Chelsea, Mass. Infant's diaper-fastener. No. 927,120; July 6; Sp. p. 883; Gaz. vol. 144; p. 142.
- Conrad, W. M., Chelsea, Mass. Package-fastening member. No. 931,569; Aug. 17; Sp. p. 4077; Gaz. vol. 145; p. 702.
- Conrader, R., Erie, Pa. Controlling device for two-stage compressors. No. 921,803; May 18; Sp. p. 3520; Gaz. vol. 142; p. 625.
- Conrader, R., Erie, Pa. Pump. No. 936,605; Oct. 12; Sp. p. 2119; Gaz. vol. 147; p. 352.
- Conrader, R., Erie, Pa. Pump. No. 936,606; Oct. 12; Sp. p. 2125; Gaz. vol. 147; p. 352.
- Conrader, R., Erie, Pa. Pump-governor. No. 937,228; Oct. 19; Sp. p. 3386; Gaz. vol. 147; p. 588.
- Conradi, J. S., Belvedere, E. Tilston, Manchester, and P. W. Masson, Belvedere, England. Lock-nut device. No. 933,420; Sept. 7, Sp. p. 867; Gaz. vol. 146; p. 135.
- Conradson, C. M., Madison, Wis., assignor to Precision Glass Grinding Machine Company, Sioux Falls, S. D. Grinding-machine. No. 911,210; Feb. 2; Sp. p. 367; Gaz. vol. 139; p. 64.
- Conradson, C. M., Madison, Wis., assignor, by mesne assignments, to Precision Glass Grinding Machine Company, Sioux Falls, S. D. Grinding-interchangeable ground-glass bottle-necks and stoppers therefor. No. 911,809; Feb. 9; Sp. p. 1540; Gaz. vol. 139; p. 286.
- Conradson, C. M., Madison, Wis., assignor, by mesne assignments, to Precision Glass Grinding Machine Company, Sioux Falls, S. D. Machine for spirally grinding interchangeable spirally-ground bottle-necks and stoppers therefor. No. 914,243; Mar. 2; Sp. p. 1250; Gaz. vol. 140; p. 195.
- Conradson, C. M., Madison, Wis., assignor, by mesne assignments, to Precision Glass Grinding Machine Company, Sioux Falls, S. D. Making interchangeable ground-glass bottle-necks and ground-glass stoppers therefor. No. 914,244; Mar. 2; Sp. p. 1256; Gaz. vol. 140; p. 196.
- Conradson, P. H., Franklin, Pa. Tubular lantern. No. 916,533; Mar. 30; Sp. p. 5864; Gaz. vol. 140; p. 1052.
- Conradson, P. H., assignor to Galena-Signal Oil Co., Franklin, Pa. Wick-adjusting device for railroad-lanterns. No. 916,534; Mar. 30; Sp. p. 5867; Gaz. vol. 140; p. 1053.
- Conrady, Firm of C. (See Löwendahl, V., assignor.)
- Conrad, C. A., Washington, D. C. Fastener. No. 941,977; Nov. 30; Sp. p. 7740; Gaz. vol. 148; p. 1304.
- Conrath, G., *et al.* (See Frederick, L., assignor.)
- Conrath, S., Olean, N. Y. Street-sweeper. No. 930,269; Aug. 3; Sp. p. 1313; Gaz. vol. 145; p. 217.
- Conrow, G. W., New York, N. Y. Portable gas-fixture. No. 915,271; Mar. 16; Sp. p. 3342; Gaz. vol. 140; p. 583.
- Conrow, L. T., Philadelphia, Pa. Stripper or cutter for embroidery, tucking, and similar material. No. 944,019; Dec. 21; Sp. p. 4282; Gaz. vol. 149; p. 737.
- Conroy, M. J. (See Brubaker, L. F., assignor.)
- Conry, W. (See Swanson, C. C., assignor.)
- Consolidated Car Fender Company. (See Thornley, A. J., assignor.)
- Consolidated Car Heating Company. (See Macomber, J. E., assignor.)
- Consolidated Car Heating Company. (See McElroy, J. F., assignor.)
- Consolidated Cross Tie Company. (See Watkins, B. F., assignor.)
- Consolidated Dental Manufacturing Company. (See Bultman, H. D., assignor.)
- Consolidated Fire Alarm Company. (See Latimer, J. M., assignor.)
- Consolidated Fire Alarm Company. (See Spamer, R. F., assignor.)
- Consolidated Railway Electric Lighting and Equipment Company. (See Kennedy, P., assignor)
- Consolidated Safety Pin Company. (See Farmer, W. H., assignor.)
- Consolidated Safety Valve Company. (See Blanchard and Darling, assignors.)
- Consolidated Sporting Goods Manufacturing Company. (See Peach, J. A., assignor.) (Reissue.)
- Consolidated Waterproof Company. (See Glassford, J., assignor.)
- Consortium für Elektrochemische Industrie G. m. b. H. (See Mugdan, M., assignor.)
- Constable, E. E., Cleveland, Ohio. Swinging counter-cabinet. No. 928,941; July 27; Sp. p. 4634; Gaz. vol. 144; p. 832.
- Constable, H., New York, N. Y. Tunnel-ventilating device. No. 918,510; Apr. 20; Sp. p. 3157; Gaz. vol. 141; p. 579.
- Constantine, M., New York, N. Y., assignor to McCall Company. Infant's cap. No. 918,511; Apr. 20; Sp. p. 3160; Gaz. vol. 141; p. 579.
- Constantineau, G. J. (See Lavallée and Constantineau.)
- Continental-Cauchouc & Guttapercha Compagnie. (See Kindscherf, C., assignor.)
- Continental Can Company. (See Abrams, J. E., assignor.)
- Continental Can Company. (See Larkin, B. H., assignor.)
- Continental Can Company. (See Robinson, D. P., assignor.)
- Continental Can Company. (See Warme, I. F., assignor.)
- Continental Can Company. (See Wing, J. F., assignor.)
- Continental Gin Company. (See Campbell, E. H., assignor.)
- Continental Gin Company. (See Ligon, H. W., assignor.)
- Continental Investment Company. (See Hartenstein, H. L., assignor.)
- Continental Manufacturing Company. (See Koons, V. C., assignor.)
- Continental Rubber Company. (See Hunnicke, F. H., assignor.)
- Continental Signal Company. (See Short, W. A. D., assignor.)
- Continuous Extracting Press Corporation. (See Fiddymont, J. C., assignor.)
- Continuous Glass Press Company. (See Shuman, A., assignor.)
- Continuous Rail & Safety Switch Co. (See Roach, H. F., assignor.)
- Continuous Zinc Furnace Company. (See Johnson, W. M., assignor.)
- Converse, A. D., Winchendon, Mass. Drum. No. 928,741; July 20; Sp. p. 4236; Gaz. vol. 144; p. 738.
- Converse, E. L., Newton, Mass. Tumbler-case. No. 924,890; June 15; Sp. p. 3864; Gaz. vol. 143; p. 658.
- Converse, F. B., New Haven, Conn., assignor to Mergenthaler Linotype Company. Linotype-machine. No. 925,754; June 22; Sp. p. 5565; Gaz. vol. 143; p. 970.
- Converse, F. B., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Linotype-machine. No. 925,755; June 22; Sp. p. 5589; Gaz. vol. 143; p. 971.
- Converse, F. B., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 942,848; Dec. 7; Sp. p. 1701; Gaz. vol. 149; p. 276.
- Converse, W. T., Aurora, Ill. Heat-retainer. No. 943,004; Dec. 14; Sp. p. 2099; Gaz. vol. 149; p. 361.
- Conway, A. H., Mason City, Iowa. Coupling for electric conductors. No. 917,548; Apr. 6; Sp. p. 1152; Gaz. vol. 141; p. 201.
- Conway, E. A. (See Deputy, E. E., assignor.)
- Conway, J., Baltimore, Md. Device for dislodging matter from valves in water-supply systems. No. 911,941; Feb. 9; Sp. p. 1790; Gaz. vol. 139; p. 329.
- Conway, J., Bellevue, Ohio. Roofing-nail. No. 928,630; July 20; Sp. p. 4016; Gaz. vol. 144; p. 700.
- Conway, J., Austin, Minn. Post-sharpener. No. 935,779; Oct. 5; Sp. p. 356; Gaz. vol. 147; p. 53.
- Conway, J. M. (See McDonough and Conway.)
- Conway, J. M., *et al.* (See Washington, D. E., assignor.)
- Conway, R. H., and H. E. Bisbing, assignors of one-fourth to L. K. Marr, Philadelphia, Pa. Reversible fused and solid terminal. No. 935,838; Oct. 5; Sp. p. 507; Gaz. vol. 147; p. 73.
- Conwell, W. A., Conway, Iowa. Currency-tray. No. 922,751; May 25; Sp. p. 5468; Gaz. vol. 142; p. 962.
- Cooper, H. L., Davenport, Iowa. Amusement device. No. 917,006; Apr. 6; Sp. p. 81; Gaz. vol. 141; p. 19.
- Coo, T. J., Toronto, Ontario, Canada, assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 943,141; Dec. 14; Sp. p. 2402; Gaz. vol. 149; p. 408.
- Cook, A. B., San Pedro, Cal. Device to protect pilings. No. 923,813; June 8; Sp. p. 1626; Gaz. vol. 143; p. 269.
- Cook, A. E., Odebolt, Iowa, assignor to International Motor Plow Company, Chicago, Ill. Motor-plow. No. 918,128; Apr. 13; Sp. p. 2375; Gaz. vol. 141; p. 425.
- Cook, C. E., New London, Iowa. Shooting-glasses. No. 916,109; Mar. 23; Sp. p. 5008; Gaz. vol. 140; p. 887.
- Cook, C. E., New London, Iowa. Shooting-glasses. No. 936,987; Oct. 12; Sp. p. 2868; Gaz. vol. 147; p. 479.
- Cook, C. E., assignor to F. B. Cook, Chicago, Ill. Tool for twisting wire-joints. No. 919,323; Apr. 27; Sp. p. 5075; Gaz. vol. 141; p. 881.
- Cook, C. E., assignor to F. B. Cook, Chicago, Ill. Messenger-hanger. No. 938,216; Oct. 26; Sp. p. 5484; Gaz. vol. 147; p. 937.
- Cook, C. G. (See Cook, M. H. and C. G.)
- Cook, C. L., Louisville, Ky. Metallic packing. No. 925,459; June 22; Sp. p. 4962; Gaz. vol. 143; p. 876.
- Cook, C. L., Louisville, Ky. Packing-casing. No. 925,460; June 22; Sp. p. 4963; Gaz. vol. 143; p. 876.
- Cook, C. W., Provo City, Utah. Gate or door hinge. No. 924,430; June 8; Sp. p. 2882; Gaz. vol. 143; p. 471.
- Cook, E. (See Hargie, T., assignor.)

*Alphabetical list of patentees—Continued.*

- Cook, E. (See Martin, W. H., assignor.)
- Cook, E., Kalamazoo, Mich. Chuck. No. 912,448; Feb. 16; Sp. p. 2935; Gaz. vol. 139; p. 532.
- Cook, E., Kalamazoo, Mich. Lifting-jack. No. 940,433; Nov. 16; Sp. p. 4429; Gaz. vol. 148; p. 740.
- Cook, E., Portland, Me. Draft-equalizer. No. 925,461; June 22; Sp. p. 4964; Gaz. vol. 143; p. 876.
- Cook, E. B., Pottstown, Pa. Blast-furnace. No. 936,308; Oct. 12; Sp. p. 1458; Gaz. vol. 147; p. 252.
- Cook, E. C., Chicago, Ill. Tent-support. No. 917,007; Apr. 6; Sp. p. 84; Gaz. vol. 141; p. 19.
- Cook, E. H., Great Neck, N. Y. Case for coin-controlled vending-machines. No. 910,906; Jan. 26; Sp. p. 5051; Gaz. vol. 138; p. 910.
- Cook, E. H., Great Neck, N. Y. Coin-controlled vending-machine. No. 910,907; Jan. 26; Sp. p. 5054; Gaz. vol. 138; p. 910.
- Cook, E. M., Oberlin, Ohio. Clutch member. No. 930,270; Aug. 3; Sp. p. 1314; Gaz. vol. 145; p. 217.
- Cook, F. A., Elkader, Iowa. Attachment to corn-planters. No. 939,983; Nov. 16; Sp. p. 3384; Gaz. vol. 148; p. 583.
- Cook, F. A., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 926,050; June 22; Sp. p. 6189; Gaz. vol. 143; p. 1069.
- Cook, F. B. (See Cook, C. E., assignor.)
- Cook, F. B. (See Hewitt and Nolen, assignors.)
- Cook, F. B. (See Nolen, J. G., assignor.)
- Cook, F. B., Chicago, Ill. Cable-terminal. No. 913,264; Feb. 23; Sp. p. 4625; Gaz. vol. 139; p. 830.
- Cook, F. B., Chicago, Ill. Clamp. No. 913,699; Mar. 2; Sp. p. 44; Gaz. vol. 140; p. 9.
- Cook, F. B., Chicago, Ill. Individual protector. No. 919,696; Apr. 27; Sp. p. 5875; Gaz. vol. 141; p. 1009.
- Cook, F. B., Chicago, Ill. Cable-terminal. No. 923,428; July 20; Sp. p. 3591; Gaz. vol. 144; p. 635.
- Cook, F. B., Chicago, Ill. Automatic self-indicating fuse. No. 942,248; Dec. 7; Sp. p. 473; Gaz. vol. 149; p. 73.
- Cook, F. B., Chicago, Ill. Individual protector. No. 944,258; Dec. 28; Sp. p. 4765; Gaz. vol. 149; p. 842.
- Cook, F. D. G., Chippewa Falls, Wis. Attachment for wheeled vehicles. No. 926,469; June 29; Sp. p. 7045; Gaz. vol. 143; p. 1242.
- Cook, F. E., assignor, by mesne assignments, of one-half to T. Mitchell, Traverse City, Mich. Boat and propeller mechanism. No. 916,846; Mar. 30; Sp. p. 6440; Gaz. vol. 140; p. 1150.
- Cook, F. H., Buckeye, Wash. Game apparatus. No. 917,254; Apr. 6; Sp. p. 604; Gaz. vol. 141; p. 104.
- Cook, G., Louisville, Ky. Paper-hanging machine. No. 920,272; May 4; Sp. p. 397; Gaz. vol. 142; p. 60.
- Cook, G., Elba, N. Y. Locomotive-boiler. No. 936,607; Oct. 12; Sp. p. 2130; Gaz. vol. 147; p. 353.
- Cook, G. H., Quincy, Mich. Turbine. No. 923,947; June 8; Sp. p. 1869; Gaz. vol. 143; p. 312.
- Cook, G. W. (See Denison, F. W., assignor.)
- Cook, H., Verona, N. J. Potato-digger. No. 927,121; July 6; Sp. p. 884; Gaz. vol. 144; p. 142.
- Cook, H. F., Sag Harbor, N. Y. Talking-machine. No. 933,234; Sept. 7; Sp. p. 466; Gaz. vol. 146; p. 72.
- Cook, H. F., Lake Mills, Iowa. Window-shade and lace-curtain support. No. 939,808; Nov. 9; Sp. p. 3004; Gaz. vol. 148; p. 494.
- Cook, H. F., Clear Lake, Tex. Shaving-cup. No. 926,805; July 6; Sp. p. 201; Gaz. vol. 144; p. 34.
- Cook, J., West Berkeley, Cal. Can-cooker. No. 942,812; Dec. 7; Sp. p. 1601; Gaz. vol. 149; p. 263.
- Cook, J. A., Greer, S. C. Coffin-box. No. 912,078; Feb. 9; Sp. p. 2166; Gaz. vol. 139; p. 375.
- Cook, J. D., *et al.* (See Laughterback, W. Z., assignor.)
- Cook, J. H., Brooklyn, N. Y. Roller-bearing. No. 932,760; Aug. 31; Sp. p. 6636; Gaz. vol. 145; p. 1142.
- Cook, J. H., New York, N. Y., assignor to H. B. Newhall, Plainfield, N. J. Wall-anchor. No. 917,927; Apr. 13; Sp. p. 1953; Gaz. vol. 141; p. 354.
- Cook, J. H., New York, N. Y., assignor to H. B. Newhall, Plainfield, N. J. Support or bracket. No. 943,237; Dec. 14; Sp. p. 2593; Gaz. vol. 149; p. 439.
- Cook, J. R. (See Fairall and Cook.)
- Cook, J. R., Lawrence, Mich. Potato-digger. No. 926,979; July 6; Sp. p. 564; Gaz. vol. 144; p. 92.
- Cook, J. W., Didsbury, near Manchester, England. Thread-guide for spinning-machines. No. 919,697; Apr. 27; Sp. p. 5877; Gaz. vol. 141; p. 1009.
- Cook, J. W., Didsbury, near Manchester, England. Lappet or thread-board for spinning, doubling, and twisting frames. No. 920,026; Apr. 27; Sp. p. 6548; Gaz. vol. 141; p. 1117.
- Cook, J. W., Didsbury, near Manchester, England. Automatic weft-replenishing mechanism for looms for weaving. No. 931,997; Aug. 24; Sp. p. 5050; Gaz. vol. 145; p. 864.
- Cook, J. W., Omaha, Neb. Puff-iron. No. 937,229; Oct. 19; Sp. p. 3396; Gaz. vol. 147; p. 588.
- Cook, L., Anabel, Mo. Cross-line buckle. No. 924,636; June 15; Sp. p. 3325; Gaz. vol. 143; p. 572.
- Cook, L. C., assignor to E. C. Atkins & Company, Indianapolis, Ind. Side file and jointer for saws. No. 944,322; Dec. 28; Sp. p. 4913; Gaz. vol. 149; p. 865.
- Cook, L. P., Clarendon, N. Y. Wagon-rack standard. No. 944,539; Dec. 28; Sp. p. 5416; Gaz. vol. 149; p. 941.
- Cook, M. H. and C. G., San Francisco, Cal. Stretching and straightening leather belting. No. 908,957; Jan. 5; Sp. p. 1066; Gaz. vol. 138; p. 172.
- Cook, M. H. and C. G., San Francisco, Cal. Apparatus for stretching and straightening leather belting. No. 908,958; Jan. 5; Sp. p. 1067; Gaz. vol. 138; p. 173.
- Cook, R., Indianapolis, assignor of one-third to C. V. Marshall and one-third to F. B. Davenport, Marion county, Ind. Marking device. No. 930,046; Aug. 3; Sp. p. 891; Gaz. vol. 145; p. 144.
- Cook, S., Wilmerding, assignor to G. Westinghouse, Pittsburg, Pa. Apparatus for controlling the flow of fluids. No. 930,843; Aug. 10; Sp. p. 2500; Gaz. vol. 145; p. 433.
- Cook, S. C. (See Simms and Cook.)
- Cook, W. A., and G. S. Hadley, Coldwater, Mich. Atomizing dental obtunder. No. 911,646; Feb. 9; Sp. p. 1245; Gaz. vol. 139; p. 234.
- Cook, W. H., *et al.* (See McCarthy, C. A., assignor.)
- Cook, W. J., Denver, Colo. Electric railway signaling apparatus. No. 939,984; Nov. 16; Sp. p. 3385; Gaz. vol. 148; p. 583.
- Cook, W. J., Denver, Colo. Automatically-operated gate for railway-crossings. No. 940,786; Nov. 23; Sp. p. 5203; Gaz. vol. 148; p. 883.
- Cook, W. J., Denver, Colo. Railway signaling apparatus. No. 940,787; Nov. 23; Sp. p. 5210; Gaz. vol. 148; p. 884.
- Cook, W. F., Chicago, Ill., assignor of one-fourth to W. S. Pearne, Moitstener. No. 912,815; Feb. 16; Sp. p. 3743; Gaz. vol. 139; p. 659.
- Cook, W. W., Fort Ripley, Minn. Vehicle. No. 916,272; Mar. 23; Sp. p. 5306; Gaz. vol. 140; p. 939.
- Cooke, A. C., Rockyhill, Conn. Light-fixture. No. 908,751; Jan. 5; Sp. p. 683; Gaz. vol. 138; p. 106.
- Cooke, A. C., Rockyhill, Conn. Truss. No. 910,504; Jan. 26; Sp. p. 4255; Gaz. vol. 138; p. 781.
- Cooke, A. D., Portland, Oreg. Printing-machine. No. 932,250; Aug. 24; Sp. p. 5567; Gaz. vol. 145; p. 948.
- Cooke, C. M., New York, N. Y. Bandage-support. No. 908,959; Jan. 5; Sp. p. 1069; Gaz. vol. 138; p. 173.
- Cooke, D. I., Chicago, Ill. Car-ventilating system. No. 920,918; May 11; Sp. p. 1688; Gaz. vol. 142; p. 300.
- Cooke, D. I., Chicago, Ill. Car-ventilating system. No. 932,761; Aug. 31; Sp. p. 6636; Gaz. vol. 145; p. 1142.
- Cooke, E. J., Traverse City, Mich. Fire-escape. No. 931,040; Aug. 17; Sp. p. 2969; Gaz. vol. 145; p. 525.
- Cooke, H. D., Monmouth Beach, N. J., and A. Fornander, said Fornander assignor to American Farm Products Company, New York, N. Y. Apparatus for extracting butter-fat from milk. No. 917,008; Apr. 6; Sp. p. 85; Gaz. vol. 141; p. 20.
- Cooke, L. H., Wimbledon, England. Theodolite, &c. No. 943,063; Dec. 14; Sp. p. 2251; Gaz. vol. 149; p. 352.
- Cooke, T. F. (See Roe, J. M., assignor.)
- Cooke, W. J., Oak Park, assignor to McGuire-Cummings Manufacturing Company, Chicago, Ill. Snow-sweeper. No. 942,888; Dec. 14; Sp. p. 1820; Gaz. vol. 149; p. 321.
- Cooke, W. L., assignor to National Paint & Varnish Company, Cleveland, Ohio. Agitator for paint in barrels. No. 927,952; July 13; Sp. p. 2621; Gaz. vol. 144; p. 445.
- Cookingham, D. C., assignor to Rauch and Lang Carriage Company, Cleveland, Ohio. Combined controller and circuit-closer. No. 911,030; Feb. 2; Sp. p. 15; Gaz. vol. 139; p. 5.
- Cookingham, F. P., assignor of one-third to J. H. Frederick, Longbeach, Cal. Tubular rail for railway-tracks. No. 937,022; Oct. 12; Sp. p. 2948; Gaz. vol. 147; p. 491.
- Cookson, A. W., Hornell, N. Y. Potato-digger. No. 937,423; Oct. 19; Sp. p. 3824; Gaz. vol. 147; p. 651.
- Cookson, T. J., Cincinnati, Ohio. Steam-trap. No. 911,031; Feb. 2; Sp. p. 18; Gaz. vol. 139; p. 5.
- Cooley Development Company. (See Alcorn, J. S., assignor.)
- Cooley, J. F., New York, N. Y., assignor of one-half to W. Ball, Boston, Mass. Mechanical movement. No. 916,914; Mar. 30; Sp. p. 6575; Gaz. vol. 140; p. 1172.
- Cooley, W. H., Brockport, N. Y. Forming expanded metal. No. 909,064; Jan. 5; Sp. p. 1287; Gaz. vol. 138; p. 207.
- Cooley, W. H., Brockport, N. Y. Machine for expanding sheet metal. No. 909,065; Jan. 5; Sp. p. 1293; Gaz. vol. 138; p. 207.
- Cooley, W. H., Brockport, N. Y. Machine for cutting and corrugating sheet metal. No. 909,066; Jan. 5; Sp. p. 1296; Gaz. vol. 138; p. 208.
- Cooley, W. H., Brockport, N. Y. Forming expanded metal. No. 942,309; Dec. 7; Sp. p. 600; Gaz. vol. 149; p. 95.
- Cooley, W. H., Brockport, and H. E. Marks, Poughkeepsie, N. Y. Sectional tubular handle for tools. No. 914,552; Mar. 9; Sp. p. 1893; Gaz. vol. 140; p. 322.
- Cooley, W. H., Brockport, and H. E. Marks, Poughkeepsie, N. Y. Thill for wagons, carriages, &c. No. 914,553; Mar. 9; Sp. p. 1895; Gaz. vol. 140; p. 323.



*Alphabetical list of patentees—Continued.*

- Cooley, W. H., Brockport, and H. E. Marks, Poughkeepsie, N. Y. Tubular handle for tools. No. 914,554; Mar. 9; Sp. p. 1896; Gaz. vol. 140; p. 323.
- Cooley, W. H., Brockport, and H. E. Marks, Poughkeepsie, N. Y. Thill for carriages. No. 914,555; Mar. 9; Sp. p. 1898; Gaz. vol. 140; p. 323.
- Cooley, W. I. (See Short and Cooley.)
- Coolidge, W. D., Schenectady, N. Y., assignor to General Electric Company. Die and die-support. No. 935,463; Sept. 28; Sp. p. 4995; Gaz. vol. 146; p. 882.
- Cooling, A. B. (See Bills, K. E., assignor.)
- Coom, C. S., Rockledge, Pa. Telephone-stand. No. 933,824; Sept. 14; Sp. p. 1755; Gaz. vol. 146; p. 291.
- Coomber, E. A., *et al.* (See Coomber, J., assignor.)
- Coomber, J., Newport, Victoria, assignor of one-third to R. J. Coomber and one-third to E. A. Coomber, Northcote, Australia. Flaying-knife and the like. No. 933,626; Sept. 7; Sp. p. 1357; Gaz. vol. 146; p. 202.
- Coomber, E. J., *et al.* (See Coomber, J., assignor.)
- Coombs, A. H., assignor of one-half to G. A. Coombs, St. Louis, Mo. Lamp-burner. No. 937,362; Oct. 19; Sp. p. 3664; Gaz. vol. 147; p. 631.
- Coombs, C. L., Fairton, N. J. Bunching-machine. No. 917,549; Apr. 6; Sp. p. 1153; Gaz. vol. 141; p. 201.
- Coombs, D. D., assignor of one-half to B. F. Sturgis, Auburn, Me. Nursing-bottle holder. No. 917,753; Apr. 13; Sp. p. 1570; Gaz. vol. 141; p. 296.
- Coombs, G. A. (See Coombs, A. H., assignor.)
- Coomes, H. M., Queens, N. Y., assignor to William R. Pitt Composite Iron Works. Folding gate. No. 917,713; Apr. 6; Sp. p. 1460; Gaz. vol. 141; p. 256.
- Coon, A. M., Hutsonville, Ill. Wagon-jack. No. 928,587; July 20; Sp. p. 3922; Gaz. vol. 144; p. 685.
- Coon, E. M. (See Learnan, L. F., assignor.)
- Coon, N. L. (See Coon, W. H., assignor.)
- Coon, O., Chicago, Ill. Cement-block machine. No. 915,556; Mar. 16; Sp. p. 3929; Gaz. vol. 140; p. 678.
- Coon, W. H., assignor to N. L. Coon, Rochester, N. Y. Massage instrument. No. 926,245; June 29; Sp. p. 6631; Gaz. vol. 143; p. 1170.
- Cooney, J., assignor to Safety Window Company, New York, N. Y. Window. No. 941,310; Nov. 23; Sp. p. 6319; Gaz. vol. 148; p. 1056.
- Coons, A. C., Muir, Ky. Shelf. No. 916,273; Mar. 23; Sp. p. 5308; Gaz. vol. 140; p. 940.
- Coons, A. M., assignor to Scovill Manufacturing Company, Waterbury, Conn. Powder-can top. No. 920,273; May 4; Sp. p. 399; Gaz. vol. 142; p. 61.
- Cooper, A., *et al.*, executors. (See Barratt, W. T., assignor.)
- Cooper, A. (See Hurley and Barratt, assignors.)
- Cooper, A. C. (See Hower, Mull, and Cooper.)
- Cooper, A. J., *et al.*, executors. (See Barratt, W. T., assignor.)
- Cooper, A. J. (See Hurley and Barratt, assignors.)
- Cooper, A. R., Mobile, Ala. Nut-lock. No. 936,091; Oct. 5; Sp. p. 1038; Gaz. vol. 147; p. 157.
- Cooper, A. S., Cookeville, Tenn. Grate-trivet. No. 915,938; Mar. 23; Sp. p. 4682; Gaz. vol. 140; p. 831.
- Cooper, B. H., and T. O. Henry, assignors to Cooper & Henry Foundry Co., Terre Haute, Ind. Sash-weight-molding apparatus. No. 921,640; May 11; Sp. p. 3185; Gaz. vol. 142; p. 543.
- Cooper, C., deceased. (See Barratt, W. T.)
- Cooper, C., deceased. (See Hurley and Barratt.)
- Cooper, C. E. (See Plimpton, J. W., assignor.)
- Cooper, C. J., assignor to H. W. Cooper Saddlery Hardware Mfg. Co., Moline, Ill. Harness-loop. No. 920,027; Apr. 27; Sp. p. 6549; Gaz. vol. 141; p. 1117.
- Cooper, C. M. (See Summers and Cooper.)
- Cooper, F. J., San Francisco, Cal. Artificial-fly envelop. No. 915,557; Mar. 16; Sp. p. 3930; Gaz. vol. 140; p. 678.
- Cooper, F. J., assignor of one-half to J. M. Skinner, Toledo, Ohio. Wheelbarrow-frame. No. 917,414; Apr. 6; Sp. p. 917; Gaz. vol. 141; p. 159.
- Cooper, F. W., Charleroi, Pa., assignor to C. O. Frye, J. J. Hott, C. Piper, and C. A. Sperber. Churn. No. 913,621; Feb. 23; Sp. p. 5380; Gaz. vol. 139; p. 951.
- Cooper & Henry Foundry Co. (See Cooper and Henry, assignors.)
- Cooper Hewitt Electric Company. (See Flichtner, S. E., assignor.)
- Cooper Hewitt Electric Company. (See Hewitt, P. C., assignor.)
- Cooper Hewitt Electric Company. (See Recklinghausen, M. von, assignor.)
- Cooper Hewitt Electric Company. (See Thomas, P. H., assignor.)
- Cooper, I., New York, N. Y. Automobile-radiator. No. 912,289; Feb. 16; Sp. p. 2607; Gaz. vol. 139; p. 480.
- Cooper, J., J. F. White, and L. Cooper, Bradford, England; said White assignor to said J. Cooper and said L. Cooper. Combing-machine for wool and other similar fibers. No. 911,114; Feb. 2; Sp. p. 178; Gaz. vol. 139; p. 33.
- Cooper, J., J. F. White, and L. Cooper, Bradford, England; said White assignor to said J. Cooper and said L. Cooper. Combing-machine for wool and other similar fibers. No. 911,115; Feb. 2; Sp. p. 179; Gaz. vol. 139; p. 34.
- Cooper, J. H., Rochester, N. Y. Carburizer. No. 941,406; Nov. 30; Sp. p. 6550; Gaz. vol. 148; p. 1111.
- Cooper, J. J., London, England, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 929,834; Aug. 3; Sp. p. 432; Gaz. vol. 145; p. 72.
- Cooper, J. J., London, England, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 930,730; Aug. 10; Sp. p. 2273; Gaz. vol. 145; p. 395.
- Cooper, J. J., London, England, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 930,731; Aug. 10; Sp. p. 2276; Gaz. vol. 145; p. 396.
- Cooper, J. J., London, England, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 931,680; Aug. 17; Sp. p. 4309; Gaz. vol. 145; p. 736.
- Cooper, J. W., Buffalo, N. Y. Flush-cuspidor. No. 914,927; Mar. 9; Sp. p. 2651; Gaz. vol. 140; p. 445.
- Cooper, J. W., Buffalo, N. Y., assignor to Enterprise Specialty Company, Columbus, Ohio. Window. No. 937,051; Oct. 19; Sp. p. 3014; Gaz. vol. 147; p. 529.
- Cooper, L. (See Cooper, White, and Cooper.)
- Cooper, M., Steeds, N. C. Mail-holder. No. 913,471; Feb. 23; Sp. p. 5039; Gaz. vol. 139; p. 900.
- Cooper, M. A., Sr. (See Pearson, J. H., assignor.)
- Cooper, O. B. (See Sant, Cooper, and Clack.)
- Cooper, S., Mexico, Mexico, assignor of one-half to C. L. Bernheim, New York, N. Y. Crushing or grinding machine. No. 918,014; Apr. 13; Sp. p. 2147; Gaz. vol. 141; p. 386.
- Cooper, S., assignor of one-half to C. L. Bernheim, New York, N. Y. Apparatus for grading pulverulent materials. No. 933,532; Sept. 7; Sp. p. 1177; Gaz. vol. 146; p. 170.
- Cooper, S. C. (See Austin and Cooper.)
- Cooper, S. C., Nunda, N. Y. Scale. No. 939,809; Nov. 9; Sp. p. 3005; Gaz. vol. 148; p. 495.
- Cooper, S. C., Johnstown, N. Y., and W. M. Austin, Swissvale, Pa., assignors to said Cooper, P. Keck, and to S. E. Trumbull, Johnstown, N. Y. Trolley-pole supporting and cushioning means. No. 917,714; Apr. 6; Sp. p. 1462; Gaz. vol. 141; p. 256.
- Cooper, S. M., McKeesport, assignor to American Sheet & Tin Plate Company, Pittsburg, Pa. Making planished sheet-iron. No. 918,971; Apr. 20; Sp. p. 4200; Gaz. vol. 141; p. 734.
- Cooper, W., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-motor-control system. No. 912,995; Feb. 23; Sp. p. 4081; Gaz. vol. 139; p. 740.
- Cooper, W., Pittsburg, Pa. Pressure-relieving device. No. 920,729; May 4; Sp. p. 1301; Gaz. vol. 142; p. 209.
- Cooper, W., Patten, Me. Attachment for potato-diggers. No. 920,919; May 11; Sp. p. 1690; Gaz. vol. 142; p. 301.
- Cooper, W., Black Bear, Idaho. Miner's candle-protector. No. 924,741; June 15; Sp. p. 3547; Gaz. vol. 143; p. 608.
- Cooper, W., Georgetown, Colo. Safety device. No. 928,903; July 20; Sp. p. 4558; Gaz. vol. 144; p. 793.
- Cooper, W. M., Kennedale, assignor of one-third to W. A. McEntire, Fort Worth, and one-third to J. F. McEntire, Kennedale, Tex. Automatically-adjustable headlight for locomotives. No. 914,335; Mar. 2; Sp. p. 1443; Gaz. vol. 140; p. 224.
- Coopersmith, R., St. Louis, Mo. Machine for making matrices. No. 931,998; Aug. 24; Sp. p. 5052; Gaz. vol. 145; p. 864.
- Cooperstock, J., New York, N. Y. Train interlocker and cross-bridge. No. 938,980; Nov. 2; Sp. p. 1149; Gaz. vol. 148; p. 183.
- Cooté, A. H., *et al.* (See Bayless, Hodgkinson, Harcastle, Cooté, and Payne.)
- Coover, A. J., Medway, Ohio. Railway-track construction. No. 937,770; Oct. 26; Sp. p. 4535; Gaz. vol. 147; p. 786.
- Cope, G. W., assignor to W. F. Stimpson, Detroit, Mich. Scale. No. 913,202; Feb. 23; Sp. p. 4495; Gaz. vol. 139; p. 810.
- Cope, G. W., Detroit, Mich., and H. R. Gummer, assignors to Gem City Stove Company, Dayton, Ohio. Stove. No. 916,915; Mar. 30; Sp. p. 6577; Gaz. vol. 140; p. 1172.
- Cope, J. A., Fulton, Ill. Card and picture holder. No. 942,713; Dec. 7; Sp. p. 1408; Gaz. vol. 149; p. 231.
- Cope, J. H., Windsor, Colo. Hay-stacker. No. 924,534; June 8; Sp. p. 3090; Gaz. vol. 143; p. 505.
- Cope, T. J., Philadelphia, Pa. Device for removing obstructions in conduits. No. 920,544; May 4; Sp. p. 917; Gaz. vol. 142; p. 148.

*Alphabetical list of patentees—Continued.*

- Copeland, G. H., Fort Payne, Ala. Barrel-truck. No. 920,826; May 4; Sp. p. 1483; Gaz. vol. 142; p. 240.  
 Copeland, H., Beallsville, Md. Vehicle-brake. No. 918,129; Apr. 13; Sp. p. 2378; Gaz. vol. 141; p. 426.  
 Copeland, H. B., Denver, Colo. Fastening device for slabs for walls, ceilings, &c. No. 916,916; Mar. 30; Sp. p. 6581; Gaz. vol. 140; p. 1173.  
 Copeland, H. B., Denver, Colo. Machine for molding portable wall blocks, slabs, &c. No. 935,246; Sept. 28; Sp. p. 4567; Gaz. vol. 146; p. 812.  
 Copeland, I. W. (See Benjamin, F., assignor.)  
 Copeland, J. C., New York, N. Y. Clasp for garment-supporters. No. 927,953; July 13; Sp. p. 2624; Gaz. vol. 144; p. 445.  
 Copeland, R. J., assignor of one-half to A. E. Chatterson, Toronto, Ontario, Canada. Keyhole-guard. No. 924,321; June 8; Sp. p. 2679; Gaz. vol. 143; p. 436.  
 Copeman, L. G., Berkeley, Cal. Electrothermostatic heat-regulator. No. 932,966; Aug. 31; Sp. p. 7023; Gaz. vol. 145; p. 1207.  
 Copilovich, H., Hinckley, Minn. Wood-distilling apparatus. No. 918,421; Apr. 13; Sp. p. 2952; Gaz. vol. 141; p. 520.  
 Copleston, E., Brooklyn, assignor of one-fourth to L. Copleston and one-fourth to H. Copleston, Rockaway Beach, N. Y. Automobile-alarm. No. 917,415; Apr. 6; Sp. p. 918; Gaz. vol. 141; p. 159.  
 Copleston, H., *et al.* (See Copleston, E., assignor.)  
 Copleston, L., *et al.* (See Copleston, E., assignor.)  
 Coplinky, J., Harrisburg, Pa. Can-opener. No. 926,051; June 22; Sp. p. 6191; Gaz. vol. 143; p. 1069.  
 Coplinky, J., Harrisburg, Pa. Ladder. No. 936,219; Oct. 5; Sp. p. 1282; Gaz. vol. 147; p. 195.  
 Copp, B. F., Las Cruces, N. Mex. Dental inlay-holder. No. 939,476; Nov. 9; Sp. p. 2293; Gaz. vol. 148; p. 380.  
 Copping, B. D., Wilmington, assignor to Edge Moor Iron Company, Edgemoor, Del. Pipe connection. No. 913,265; Feb. 23; Sp. p. 4626; Gaz. vol. 139; p. 830.  
 Copping, L. R. (See Curry and Copping.)  
 Coppins, S. R., assignor to Evans-Coppins & Starks Company, Princeton, Ill. Ball-bearing. No. 918,422; Apr. 13; Sp. p. 2953; Gaz. vol. 141; p. 520.  
 Coppola, J. E., Mexico, Mexico. Embalming apparatus. No. 935,839; Oct. 5; Sp. p. 509; Gaz. vol. 147; p. 73.  
 Coppridge Heater Corporation. (See Sadler, E. B., assignor.)  
 Corbett, J. R., assignor to National Casket Company, Rochester, N. Y. Separable hinge. No. 932,601; Aug. 31; Sp. p. 6292; Gaz. vol. 145; p. 1088.  
 Corbett, J. T., Columbus, Ohio. Chain and link therefor. No. 932,680; Aug. 31; Sp. p. 6472; Gaz. vol. 145; p. 1115.  
 Corbett, M. (See Burke, B. F., assignor.)  
 Corbett, W. H., Portland, Oreg. Logging and hoisting engine. No. 920,436; May 4; Sp. p. 704; Gaz. vol. 142; p. 111.  
 Corbett, W. H., Portland, Oreg. Hoisting or logging device. No. 939,670; Nov. 9; Sp. p. 2710; Gaz. vol. 148; p. 1228.  
 Corbin, C. B., assignor of one-half to Michigan Tool and Stamping Works, Grand Rapids, Mich. Extensible bracket. No. 922,566; May 25; Sp. p. 5087; Gaz. vol. 142; p. 902.  
 Corbin Cabinet Lock Company. (See Johnson, C. E., assignor.)  
 Corbin Cabinet Lock Company. (See Stone, E. B., assignor.)  
 Corbin Cabinet Lock Company. (See Townsend, H. P., assignor.)  
 Corbin, R., Champlain, N. Y. Sash-lifter. No. 931,388; Aug. 17; Sp. p. 3746; Gaz. vol. 145; p. 646.  
 Corcoran, C. L., Northfield, N. J. Traveling rocking-horse. No. 936,092; Oct. 5; Sp. p. 1039; Gaz. vol. 147; p. 157.  
 Corcoran, D., Yonkers, N. Y. Universal joint. No. 934,140; Sept. 14; Sp. p. 2402; Gaz. vol. 146; p. 393.  
 Corcoran, D., Yonkers, N. Y. Elevator. No. 934,141; Sept. 14; Sp. p. 2404; Gaz. vol. 146; p. 394.  
 Corcoran, T., Brockton, Mass. Shoe for runners. No. 910,505; Jan. 26; Sp. p. 4257; Gaz. vol. 138; p. 782.  
 Cord, W. S., Oceanpark, and H. F. Heywood, Los Angeles, Cal. Lock-switch for electric meters. No. 919,423; Apr. 27; Sp. p. 5288; Gaz. vol. 141; p. 915.  
 Corder, W. D., Philippi, W. Va. Suspenders. No. 914,021; Mar. 2; Sp. p. 805; Gaz. vol. 140; p. 123.  
 Cordes, F., assignor to United Engineering & Foundry Company, Pittsburg, Pa. Annealing-box. No. 910,908; Jan. 26; Sp. p. 5058; Gaz. vol. 138; p. 911.  
 Cordes, F., assignor to United Engineering & Foundry Company, Pittsburg, Pa. Annealing-box. No. 910,909; Jan. 26; Sp. p. 5059; Gaz. vol. 138; p. 911.  
 Cordes-Watson Company. (See Watson, G. B., assignor.)  
 Cordley, A. M., Glenridge, N. J. Surgical appliance and forming the same. No. 920,112; May 4; Sp. p. 36; Gaz. vol. 142; p. 5.  
 Cordley, H. G., Glenridge, N. J. Liquid-vending device. No. 941,760; Nov. 30; Sp. p. 7292; Gaz. vol. 148; p. 1228.  
 Corey, F. B., Schenectady, N. Y., assignor to General Electric Company. Block-signal system. No. 909,158; Jan. 12; Sp. p. 1504; Gaz. vol. 138; p. 272.  
 Corey, F. B., Schenectady, N. Y., assignor to General Electric Company. Relay. No. 912,079; Feb. 9; Sp. p. 2167; Gaz. vol. 139; p. 375.  
 Corey, F. B., Schenectady, N. Y., assignor to General Electric Company. Relay. No. 929,393; July 27; Sp. p. 5603; Gaz. vol. 144; p. 982.  
 Corey, J. L., Indianapolis, Ind. Self-centering fixture-stud. No. 917,847; Apr. 13; Sp. p. 1773; Gaz. vol. 141; p. 325.  
 Cork Asphalt Limited. (See Clifford, H. M., assignor.)  
 Corken, T. J., Wilmerding, Pa. Window-fixture. No. 924,431; June 8; Sp. p. 2883; Gaz. vol. 143; p. 471.  
 Corkins, F., Adams township, Lucas county, Ohio. Head-rest. No. 942,485; Dec. 7; Sp. p. 959; Gaz. vol. 149; p. 155.  
 Corlew, C. C., Broderick, Cal. Hose-hydrant. No. 924,041; June 8; Sp. p. 2053; Gaz. vol. 143; p. 341.  
 Corlew, C. C., Fresno, Cal. Hose-coupling. No. 929,561; July 27; Sp. p. 5891; Gaz. vol. 144; p. 1035.  
 Corliss, H. A., Grants Pass, Oreg. Amalgamator. No. 941,560; Nov. 30; Sp. p. 6854; Gaz. vol. 148; p. 1161.  
 Corliss, W., Providence, R. I. Railway-crossing. No. 910,786; Jan. 26; Sp. p. 4826; Gaz. vol. 138; p. 873.  
 Cormeny, M. M., Philadelphia, Pa. Awning. No. 914,639; Mar. 9; Sp. p. 2060; Gaz. vol. 140; p. 350.  
 Cormey, W. D., Manchester, N. H. Mitten. No. 944,949; Dec. 28; Sp. p. 6276; Gaz. vol. 149; p. 1078.  
 Cormier, D., River Point, R. I. Picker-check. No. 918,827; Apr. 20; Sp. p. 3884; Gaz. vol. 141; p. 685.  
 Cormyn, J. M. (See Winternight, H. A., assignor.)  
 Corn Products Refining Company. (See Spain, W., assignor.)  
 Cornbrooks, W. A., Moline, Ill., assignor to Williams, White & Company. Relief mechanism for pressure-exerting machines. No. 914,799; Mar. 9; Sp. p. 2405; Gaz. vol. 140; p. 404.  
 Cornell, R. F., Phillipsburg, Mont. Churn. No. 918,659; Apr. 20; Sp. p. 3519; Gaz. vol. 141; p. 628.  
 Cornelison, A. C. (See Nelson, O. H., assignor.)  
 Cornelison, A. C., Highland Falls, N. Y. Calculating-machine. No. 927,452; July 6; Sp. p. 1513; Gaz. vol. 144; p. 251.  
 Cornelison, J. H., St. Louis, Mo. Window-screen. No. 910,910; Jan. 26; Sp. p. 5060; Gaz. vol. 138; p. 911.  
 Cornelison, J. H., St. Louis, Mo. Window-screen. No. 938,641; Nov. 2; Sp. p. 434; Gaz. vol. 148; p. 67.  
 Cornelius, F. M. (See Adamson, A. J., assignor.)  
 Cornelius, J. M., Sherrills Ford, N. C. Ditching-plow. No. 935,464; Sept. 28; Sp. p. 4997; Gaz. vol. 146; p. 882.  
 Cornelius, L. A., Grand Rapids, Mich. Valve apparatus for tanks. No. 924,432; June 8; Sp. p. 2884; Gaz. vol. 143; p. 472.  
 Cornelius, L. M., Rocky Hill Station, Ky. Advertising apparatus. No. 923,335; June 1; Sp. p. 521; Gaz. vol. 143; p. 75.  
 Cornell, C. C., *et al.* (See Sheeley, C. M., assignor.)  
 Cornell, C. H., Valentine, Nebr. Railway-fastening. No. 921,511; May 11; Sp. p. 2918; Gaz. vol. 142; p. 501.  
 Cornell, C. H., Valentine, Nebr. Railway-fastening. No. 928,231; July 13; Sp. p. 3154; Gaz. vol. 144; p. 537.  
 Cornell, C. H., Valentine, Nebr. Railway-fastener. No. 943,520; Dec. 14; Sp. p. 3191; Gaz. vol. 149; p. 537.  
 Cornell, C. H., Valentine, Nebr. Railway-fastener. No. 943,521; Dec. 14; Sp. p. 3194; Gaz. vol. 149; p. 537.  
 Cornell, C. H., Valentine, Nebr. Railway-fastening. No. 943,522; Dec. 14; Sp. p. 3196; Gaz. vol. 149; p. 537.  
 Cornell, E. W., Traverse City, Mich. Paper fruit-box. No. 922,459; May 25; Sp. p. 4854; Gaz. vol. 142; p. 867.  
 Cornell, E. W., assignor of one-half to A. B. Pack, Adrian, Mich. Machine for making wire fabric. No. 930,159; Aug. 3; Sp. p. 1130; Gaz. vol. 145; p. 184.  
 Cornell, F. E., New York, N. Y. Paper box for packing paints, &c. No. 938,981; Nov. 2; Sp. p. 1151; Gaz. vol. 148; p. 184.  
 Cornely, R., Paris, France. Sewing and embroidering machine. No. 940,788; Nov. 23; Sp. p. 5213; Gaz. vol. 148; p. 885.  
 Cornely, R., Paris, France. Sewing and embroidering machine. No. 944,599; Dec. 28; Sp. p. 5552; Gaz. vol. 149; p. 962.  
 Cornet, J. G., *et al.* (See Moreau, J., assignor.)  
 Cornett, C. A. (See Cornett, E. W. and C. A.)  
 Cornett, E. W. and C. A., Spring Valley, Va. Trestle. No. 923,492; June 1; Sp. p. 842; Gaz. vol. 143; p. 128.  
 Cornford, W. H., Mornington, Victoria, Australia. Game apparatus. No. 932,846; Aug. 31; Sp. p. 6807; Gaz. vol. 145; p. 1168.  
 Cornford, W. H., Mornington, Victoria, Australia. Toy cannon. No. 938,982; Nov. 2; Sp. p. 1153; Gaz. vol. 148; p. 184.  
 Cornick, T. (See White and Cornick.)  
 Cornish, H. B., assignor of one-half to P. G. Reiter, Minneapolis, Minn. Combined gas range and cooker. No. 917,848; Apr. 13; Sp. p. 1774; Gaz. vol. 141; p. 326.  
 Cornish, H. S., New York, N. Y. Liquid-dispensing apparatus. No. 942,165; Dec. 7; Sp. p. 302; Gaz. vol. 149; p. 46.  
 Cornish, H. S., New York, assignor to H. A. King, Far Rockaway, N. Y. Apparatus for dispensing a measured quantity of beer. No. 928,588; July 20; Sp. p. 3924; Gaz. vol. 144; p. 686.



*Alphabetical list of patentees—Continued.*

- Cornman, W. W., assignor of one-half to J. H. Maginn, Chicago, Ill. Door-locking device. No. 913,700; Mar. 2; Sp. p. 45; Gaz. vol. 140; p. 9.
- Cornwall, F. R., St. Louis, Mo. Game apparatus. No. 908,752; Jan. 5; Sp. p. 685; Gaz. vol. 138; p. 107.
- Cornwall, G. R., Rye, assignor to American Planograph Co., New York, N. Y. Printing-press. No. 926,102; June 29; Sp. p. 6313; Gaz. vol. 143; p. 1121.
- Cornwall, H. B. (See Meadows, F., assignor.)
- Cornwall, J. B., assignor to Barnard and Leas Manufacturing Company, Moline, Ill. Machine for separating grain. No. 927,328; July 6; Sp. p. 1264; Gaz. vol. 144; p. 209.
- Cornwell, F. I. (See Hand, J. H., assignor.)
- Cornwell, I. (See Burdsall, S. N., assignor.)
- Corrigan, J., assignor of one-third to P. Cramp and one-third to D. M. Thomson, Rockledge, Pa. Flexible-rim vehicle-wheel. No. 931,999; Aug. 24; Sp. p. 5056; Gaz. vol. 145; p. 865.
- Corrigan, J. F. (See De Soria and Corrigan.)
- Corrigan, P. D., Wellsville, N. Y. Fountain-pen. No. 932,447; Aug. 31; Sp. p. 5947; Gaz. vol. 145; p. 1036.
- Corrington, A. R., assignor of one-half to G. E. Knaack, Hartley, Iowa. Driving-gear for motor-vehicles. No. 944,600; Dec. 28; Sp. p. 5553; Gaz. vol. 149; p. 963.
- Corrington, M., New York, N. Y. Fluid-pressure-brake apparatus. No. 941,914; Nov. 30; Sp. p. 7618; Gaz. vol. 148; p. 1283.
- Corron, C., St. Chamond, France. Apparatus for dyeing yarn. No. 915,939; Mar. 23; Sp. p. 4683; Gaz. vol. 140; p. 831.
- Corron, C., St. Chamond, France. Apparatus for dyeing yarns, fabrics, and the like. No. 929,562; July 27; Sp. p. 5893; Gaz. vol. 144; p. 1036.
- Corrugated Bar Company. (See Lindau, A. E., assignor.)
- Corry Castor Co. (See Humphrey, E. H., assignor.)
- Corson, A. L., Pueblo, Colo. Placer-mining machine. No. 909,553; Jan. 12; Sp. p. 2261; Gaz. vol. 138; p. 401.
- Corson, D. M., and G. T. Gilkerson, Los Angeles, Cal. Detachable swivel. No. 943,299; Dec. 14; Sp. p. 2727; Gaz. vol. 149; p. 460.
- Corson, H. L., Dayton, Ohio. Window-sash lock. No. 922,670; May 25; Sp. p. 5297; Gaz. vol. 142; p. 936.
- Corthell, W. M., Chicago, Ill. Mail delivering and collecting apparatus. No. 923,336; June 1; Sp. p. 522; Gaz. vol. 143; p. 75.
- Corthell, W. M., Chicago, Ill. Mail collecting and delivering device. No. 929,659; Aug. 3; Sp. p. 30; Gaz. vol. 145; p. 8.
- Corthell, W. M., Chicago, Ill. Mail-bag hanger. No. 935,894; Oct. 5; Sp. p. 630; Gaz. vol. 147; p. 91.
- Corthell, W. M., assignor to F. M. Waterman, Chicago, Ill. Hook and eye. No. 909,554; Jan. 12; Sp. p. 2264; Gaz. vol. 138; p. 402.
- Corthell, W. M., assignor to F. M. Waterman, Chicago, Ill. Hook and eye. No. 910,645; Jan. 26; Sp. p. 4553; Gaz. vol. 138; p. 828.
- Cortland Carriage Goods Company. (See Murray, A. J., assignor.)
- Corts, A., Wyncote, Pa. Rail-grip. No. 916,675; Mar. 30; Sp. p. 6131; Gaz. vol. 140; p. 1098.
- Corwin, B. F., Brooklyn, N. Y. Combined disinfectant and lamp. No. 924,433; June 8; Sp. p. 2887; Gaz. vol. 143; p. 472.
- Corwin, E. R., assignor to Corwin Telephone Manufacturing Company, Chicago, Ill. Intercommunicating trunking system. No. 918,660; Apr. 20; Sp. p. 3521; Gaz. vol. 141; p. 629.
- Corwin, E. R., and C. A. Bals, assignors to Corwin Telephone Manufacturing Company, Chicago, Ill. Desk-telephone. No. 911,866; Feb. 9; Sp. p. 1639; Gaz. vol. 139; p. 304.
- Corwin, E. R., and C. A. Bals, assignors to Corwin Telephone Manufacturing Company, Chicago, Ill. Relay. No. 941,761; Nov. 30; Sp. p. 7295; Gaz. vol. 148; p. 1229.
- Corwin, E. R., and C. A. Bals, assignors to Corwin Telephone Manufacturing Company, Chicago, Ill. Desk-telephone. No. 941,762; Nov. 30; Sp. p. 7298; Gaz. vol. 148; p. 1229.
- Corwin, E. R., and C. A. Bals, assignors to Corwin Telephone Manufacturing Company, Chicago, Ill. Bank of locking switch-keys. No. 941,763; Nov. 30; Sp. p. 7300; Gaz. vol. 148; p. 1230.
- Corwin Telephone Manufacturing Company. (See Corwin, E. R., assignor.)
- Corwin Telephone Manufacturing Company. (See Corwin and Bals, assignors.)
- Cory, C., *et al.* (See Wood, F. W., assignor.)
- Cory, C. and J. M. (See Wood, F. W., assignor.)
- Cory, F. G., Tisbury, England. Self-leveling mechanism for use in maritime vessels. No. 910,506; Jan. 26; Sp. p. 4258; Gaz. vol. 138; p. 782.
- Cory, H., Pittsburg, Pa. Coke-drawer. No. 923,410; June 1; Sp. p. 682; Gaz. vol. 143; p. 100.
- Cory, H., and E. F. Dandridge, Pittsburg, Pa. Conveyer. No. 933,365; Sept. 7; Sp. p. 753; Gaz. vol. 146; p. 117.
- Cory, J. M., *et al.* (See Wood, F. W., assignor.)
- Cory & Reynolds Company. (See Reynolds, F. S., assignor.)
- Cory & Son, C. (See Wood, F. W., assignor.)
- Cory Temperance Syndicate, Limited. (See Moser, L. J., assignor.)
- Cosby, D., Columbia, Va. Message-holder. No. 909,870; Jan. 19; Sp. p. 2901; Gaz. vol. 138; p. 540.
- Cosby, J. E., assignor of one-third to L. B. Hancock and one-third to J. M. Bossieux, Richmond, Va. Cash-register attachment. No. 937,576; Oct. 19; Sp. p. 4136; Gaz. vol. 147; p. 704.
- Cosby, W. B., Kansas City, Mo. Carrier for target-traps. No. 917,009; Apr. 6; Sp. p. 87; Gaz. vol. 141; p. 20.
- Cosby, W. B., Kansas City, Mo., assignor of one-half to Z. Taylor, Houston, Tex. Glazier's table. No. 926,470; June 29; Sp. p. 7046; Gaz. vol. 143; p. 1242.
- Cosey, H. M., assignor to T. O. Taylor, Lincoln, Nebr. Automatic mechanism for barb-wire reels. No. 932,420; Aug. 24; Sp. p. 5877; Gaz. vol. 145; p. 1003.
- Cosgrove, E. L. (See Smith and Cosgrove.)
- Cosgrove, E. L., and W. S. Smith, Wharton, Ohio. Collapsible crate. No. 938,041; Oct. 26; Sp. p. 5091; Gaz. vol. 147; p. 876.
- Cosgrove, J. J., Philadelphia, assignor to Standard Sanitary Manufacturing Company, Pittsburg, Pa. Water-closet and soil-pipe connection therefor. No. 919,283; Apr. 20; Sp. p. 4971; Gaz. vol. 141; p. 833.
- Cosgrove, J. J., Scranton, assignor to Standard Sanitary Manufacturing Company, Pittsburg, Pa. Sanitary ware. No. 942,547; Dec. 7; Sp. p. 1089; Gaz. vol. 149; p. 176.
- Cosgrove, T., Los Angeles, Cal. Suit-case attachment. No. 922,567; May 25; Sp. p. 5089; Gaz. vol. 142; p. 903.
- Cosgrove, T., Los Angeles, Cal. Collapsible-cottage construction. No. 935,744; Oct. 5; Sp. p. 258; Gaz. vol. 147; p. 41.
- Cosmopolitan Addressing Company. (See Sinisi, J., assignor.)
- Cosmos Construction Company. (See Lamson, F. S., assignor.)
- Cosmovich, G., Bucharest, Roumania. Burner. No. 910,178; Jan. 19; Sp. p. 3526; Gaz. vol. 138; p. 642.
- Cosper, W. P., Chicago, Ill., assignor to Lord Electric Company, Boston, Mass. Electric controller. No. 915,719; Mar. 16; Sp. p. 4267; Gaz. vol. 140; p. 735.
- Cosper, W. P., and W. J. O. Johnson, Chicago, Ill., assignors to Lord Electric Company, Boston, Mass. Controller-regulator. No. 915,720; Mar. 16; Sp. p. 4273; Gaz. vol. 140; p. 735.
- Coss, J. C., Cleveland, Ohio. Vehicle-top-joint brace. No. 943,655; Dec. 21; Sp. p. 3521; Gaz. vol. 149; p. 613.
- Costa, J. A., East Cambridge, Mass. Hack. No. 915,743; Mar. 23; Sp. p. 4330; Gaz. vol. 140; p. 770.
- Costa, J. F., Watsonville, Cal. Baking-pan. No. 937,424; Oct. 19; Sp. p. 3826; Gaz. vol. 147; p. 651.
- Costello, F. M., *et al.* (See Costello, P. H., assignor.)
- Costello, C., Jr., Philadelphia, Pa. Window. No. 923,628; June 1; Sp. p. 1154; Gaz. vol. 143; p. 177.
- Costello, J. T., Pittsburg, Pa. Plumbing-trap. No. 941,062; Nov. 23; Sp. p. 5774; Gaz. vol. 148; p. 975.
- Costello, P. H., assignor to F. M. Costello and B. H. Conig, Boston, Mass. Elevator safety device. No. 920,437; May 4; Sp. p. 706; Gaz. vol. 142; p. 112.
- Costephens, E. A., and D. D. Snow, Nubia, Tex. Pump. No. 915,744; Mar. 23; Sp. p. 4332; Gaz. vol. 140; p. 770.
- Cotikyan, N., Leicester, England. Yarn-printing machine. No. 928,631; July 20; Sp. p. 4016; Gaz. vol. 144; p. 700.
- Cota, S. F., Dickinson, N. D. Cut-out or release for air-brake apparatus. No. 943,769; Dec. 21; Sp. p. 3740; Gaz. vol. 149; p. 651.
- Côte, E. P., and F. R. Pierron, Lyon, France. Electric furnace for the continuous extraction of zinc from its ores. No. 944,774; Dec. 28; Sp. p. 5916; Gaz. vol. 149; p. 1020.
- Côte, G. M., Pittsburg, Pa. Rail-fastener. No. 941,697; Nov. 30; Sp. p. 7147; Gaz. vol. 148; p. 1206.
- Côte, G. M., assignor to Standard Steel Tie Company, Pittsburg, Pa. Rail-support. No. 939,477; Nov. 9; Sp. p. 2294; Gaz. vol. 148; p. 380.
- Côte, H., West Warren, and R. C. Snow, Ware, Mass. Reed for looms. No. 915,335; Mar. 16; Sp. p. 3466; Gaz. vol. 140; p. 605.
- Côte, H., West Warren, and R. C. Snow, Ware, Mass. Device for threading loom-reefs. No. 915,336; Mar. 16; Sp. p. 3468; Gaz. vol. 140; p. 605.
- Côte, H., West Warren, and R. C. Snow, Ware, Mass. Picker-stick. No. 919,541; Apr. 27; Sp. p. 5559; Gaz. vol. 141; p. 955.
- Cote, N. J., Montreal, Quebec, Canada. Combination furniture. No. 921,952; May 18; Sp. p. 3358; Gaz. vol. 142; p. 672.
- Cotner, J. S. (See Hake, W. E., assignor.)
- Cott, C. M., Columbus, Ohio. Loose-leaf binder. No. 925,869; June 22; Sp. p. 5842; Gaz. vol. 143; p. 1010.
- Cott, C. M., Columbus, Ohio. Loose-leaf binder. No. 929,394; July 27; Sp. p. 5604; Gaz. vol. 144; p. 983.
- Cotta, C., assignor to Cotta Transmission Co., Inc., Rockford, Ill. Change-speed gearing. No. 934,505; Sept. 21; Sp. p. 3093; Gaz. vol. 146; p. 539.
- Cotta Transmission Co. (See Cotta, C., assignor.)
- Cotten, C. K., San Angelo, Tex. Counterbalancing device for pumps. No. 914,385; Mar. 9; Sp. p. 1567; Gaz. vol. 140; p. 266.

*Alphabetical list of patentees—Continued.*

- Cotter, J. F., St. Louis, Mo. Flush-tank valve. No. 934,045; Sept. 14; Sp. p. 2179; Gaz. vol. 146; p. 361.
- Cottrell, F., Melbourne, Victoria, Australia. Glass-beveling machine. No. 922,087; May 18; Sp. p. 4109; Gaz. vol. 142; p. 718.
- Cottet, F., Cleveland, N. Y. Pan-cake turner. No. 924,535; June 8; Sp. p. 3094; Gaz. vol. 143; p. 506.
- Cottie, J. C., New York, assignor of one-half to A. P. Tostevin, Brooklyn, N. Y. Belt-coupling. No. 909,555; Jan. 12; Sp. p. 2266; Gaz. vol. 138; p. 402.
- Cottle, E. E. (See Eitel, W. D., assignor.)
- Cotto-Waxo Chemical Company. (See Punch, S. C., D. T., and J. C., assignors.)
- Cotton, A., Newark, N. J. Door-securing means. No. 922,460; May 25; Sp. p. 4856; Gaz. vol. 142; p. 867.
- Cotton, A. H., Rawene, Hokiang, New Zealand. Toy. No. 941,311; Nov. 23; Sp. p. 6323; Gaz. vol. 145; p. 1057.
- Cotton, F., Hornsby, New South Wales, Australia. Removing sulfur, arsenic, and other like impurities from refractory ores. No. 922,088; May 18; Sp. p. 4112; Gaz. vol. 142; p. 718.
- Cotton Harvester Company. (See Patterson, W. A., assignor.)
- Cotton, R. C. (See Johnson and Cotton.)
- Cotton, W. H., and T. D. Henderson, Chicago, Ill. Railway-rail stay. No. 915,558; Mar. 16; Sp. p. 3932; Gaz. vol. 140; p. 678.
- Cotton, W. H., and T. D. Henderson, Chicago, Ill. Railway-rail support. No. 928,942; July 27; Sp. p. 4635; Gaz. vol. 144; p. 832.
- Cottrell, A. M., Westerly, R. I., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Ink-fountain for printing-presses. No. 943,218; Dec. 14; Sp. p. 2549; Gaz. vol. 149; p. 432.
- Cottrell, A. P., Pomona, Mo. Lifting-jack for vehicles. No. 914,245; Mar. 2; Sp. p. 1259; Gaz. vol. 140; p. 196.
- Cottrell, H. W., assignor of one-half to H. W. Rountree, Richmond, Va. Trunk-lock. No. 928,904; July 20; Sp. p. 4561; Gaz. vol. 144; p. 794.
- Cottrell, H. W., assignor of one-half to H. W. Rountree, Richmond, Va. Trunk-lock. No. 928,905; July 20; Sp. p. 4563; Gaz. vol. 144; p. 794.
- Cottrell, J. W. (See Culverhouse, T. R., assignor.)
- Cottrell, W. H., Chicago, Ill. Nut-lock. No. 913,266; Feb. 23; Sp. p. 4628; Gaz. vol. 139; p. 830.
- Cottrell, W. H., Chicago, Ill. Nut-lock. No. 913,267; Feb. 23; Sp. p. 4630; Gaz. vol. 139; p. 830.
- Cottrill, F. H., and A. Leihammer, Milwaukee, Wis. Autograph time-recorder. No. 912,230; Feb. 9; Sp. p. 2434; Gaz. vol. 139; p. 420.
- Couch, B. C. (See Kneeder, J. D., assignor.)
- Couch, E. Q., Jones, Okla. Potato-cutter. No. 917,849; Apr. 13; Sp. p. 1776; Gaz. vol. 141; p. 326.
- Couch, J. A. and L. F., Nashville, Ark. Automatic air-brake appliance. No. 924,742; June 15; Sp. p. 3548; Gaz. vol. 143; p. 609.
- Couch, L. F. (See Couch, J. A. and L. F.)
- Couch, R. O., Charleston, W. Va. Trolley-wire support. No. 935,895; Oct. 5; Sp. p. 632; Gaz. vol. 147; p. 92.
- Coughlan, J. M., St. Joseph, Mo. Shade and curtain rack. No. 925,996; June 22; Sp. p. 6080; Gaz. vol. 143; p. 1051.
- Coughlin, D. E., assignor of one-fourth to H. W. Frost, Detroit, Mich. Mail-handling apparatus. No. 912,996; Feb. 23; Sp. p. 4083; Gaz. vol. 139; p. 741.
- Coughlin, J. (See Parks and Coughlin.)
- Coughlin, J. D., assignor of one-third to F. T. Nightingale and one third to F. T. Grant, Boston, Mass. Crown-seal opener. No. 930,732; Aug. 10; Sp. p. 2280; Gaz. vol. 145; p. 396.
- Coughlin, J. M., *et al.* (See Moore, J., assignor.)
- Coughlin, W. C., *et al.* (See Moore, J., assignor.)
- Coulby, H. (See De Mars, A. A., assignor.)
- Coulston, E. V., Rock Island, Ill. Furnace. No. 940,789; Nov. 23; Sp. p. 5215; Gaz. vol. 148; p. 885.
- Coult, J. H., assignor to Houghtaling-Coult Manufacturing Company, Fairmont, Minn. Grass-catcher. No. 921,804; May 18; Sp. p. 3522; Gaz. vol. 142; p. 625.
- Coults, C. G., Murrayville, Ill. Hog-gambrel. No. 940,434; Nov. 16; Sp. p. 4431; Gaz. vol. 148; p. 741.
- Coulter, C. J., Longmont, Colo. Combination machine-drill. No. 929,563; July 27; Sp. p. 5895; Gaz. vol. 144; p. 1036.
- Coulter, F. P., Clatskanie, Oreg. Beacon or anchor lantern. No. 925,563; June 22; Sp. p. 5157; Gaz. vol. 143; p. 909.
- Coulter, H. M., assignor of one-half to A. Stromberg, Chicago, Ill. Block-signaling system. No. 914,386; Mar. 9; Sp. p. 1568; Gaz. vol. 140; p. 266.
- Coulter, J., Bridgeport, Conn. Automatic screw-cutting and turning lathe. No. 908,960; Jan. 5; Sp. p. 1070; Gaz. vol. 138; p. 174.
- Coulthard, A. E. (See Zepp and Coulthard.)
- Council, D. W., Rutherfordton, N. C. Mail-bag catcher. No. 932,251; Aug. 24; Sp. p. 5569; Gaz. vol. 145; p. 948.
- Countryman, G. C. (See Roush, F., assignor.)
- Coup, E. B., McKeesport, Pa. Governor for air-compressors. No. 914,116; Mar. 2; Sp. p. 985; Gaz. vol. 140; p. 156.
- Couper, G. H., Elmira Heights, assignor to Eclipse Machine Company, Elmira, N. Y. Hacksaw. No. 925,684; June 22; Sp. p. 5409; Gaz. vol. 143; p. 947.
- Coupland, D. B., San Angelo, Tex. Railway-joint. No. 931,275; Aug. 17; Sp. p. 3500; Gaz. vol. 145; p. 606.
- Coursen, W. L., East Orange, N. J., assignor to Western Electric Company, Chicago, Ill. Heat-coil. No. 944,540; Dec. 28; Sp. p. 5417; Gaz. vol. 149; p. 942.
- Courson, J. F., Pitcairn, Pa. Side bearing for railway-cars. No. 931,681; Aug. 17; Sp. p. 4316; Gaz. vol. 145; p. 737.
- Courson, J. F., Pitcairn, Pa. Draw-gear apparatus. No. 931,682; Aug. 17; Sp. p. 4317; Gaz. vol. 145; p. 737.
- Court, E., Milwaukee, Wis. Bottle-rinsing machine. No. 908,446; Jan. 5; Sp. p. 24; Gaz. vol. 138; p. 6.
- Courteuisse, V. (See Gin and Courteuisse.)
- Courtenay, J., Aviemore, Elsie's River Halt, Cape Colony. Harrow or cultivator. No. 922,671; May 25; Sp. p. 5298; Gaz. vol. 142; p. 936.
- Courtney, D. S., Chicopee, Mass. Woodworking-machine. No. 924,536; June 8; Sp. p. 3095; Gaz. vol. 143; p. 506.
- Courtney, F. H., New York, N. Y. Thrust-bearing. No. 933,627; Sept. 7; Sp. p. 1353; Gaz. vol. 146; p. 202.
- Courtney, J. N., Excelsior Springs, Mo. Tobacco-pipe. No. 933,628; Sept. 7; Sp. p. 1360; Gaz. vol. 146; p. 203.
- Courtney, J. W., and J. C. Porter, Ringwood, Okla. Broom-corn seeder. No. 944,178; Dec. 21; Sp. p. 4605; Gaz. vol. 149; p. 790.
- Courtney, T. F. (See Courtney, W. J. and T. F.)
- Courtney, W. E., assignor to Mathews Gravity Carrier Company, St. Paul, Minn. Elevator. No. 931,570; Aug. 17; Sp. p. 4079; Gaz. vol. 145; p. 702.
- Courtney, W. J. and T. F., Chicago, Ill. Implement for slitting the envelop of twin insulated wires. No. 918,972; Apr. 20; Sp. p. 4201; Gaz. vol. 141; p. 734.
- Courtright, O. C., and A. D. Mika, Fort Madison, Iowa. Photographic-printing cabinet. No. 929,195; July 27; Sp. p. 5165; Gaz. vol. 144; p. 916.
- Courts, B. D. (See Dettman and Courts.)
- Cousar, J. G. (See Ganit, M. W., assignor.)
- Cousens, C. C., Springfield, Mass. Sanitary milk and cream saving device. No. 920,545; May 4; Sp. p. 918; Gaz. vol. 142; p. 148.
- Cousino, C. D. and L., Toledo, Ohio. Rail-fastener for metallic ties. No. 917,255; Apr. 6; Sp. p. 605; Gaz. vol. 141; p. 104.
- Cousino, L. (See Cousino, C. D. and L.)
- Cousins, A. B. (See Howard and Cousins.)
- Cousins, J. R., Burkeville, Tex. Clevis. No. 916,847; Mar. 30; Sp. p. 6441; Gaz. vol. 140; p. 1150.
- Cousins, R. A. (See Scribner, E. L., assignor.)
- Coutts, F. (See Bruce and Coutts.)
- Coval, P., and D. A. Kunkle, New Kensington, Pa. Trolley. No. 921,512; May 11; Sp. p. 2920; Gaz. vol. 142; p. 501.
- Covel, W. L., Biloxi, Miss. Saw-swaging machine. No. 934,046; Sept. 14; Sp. p. 2181; Gaz. vol. 146; p. 361.
- Covell, H. N., New York, N. Y., assignor to Lidgerwood Manufacturing Company. Logging-locomotive. No. 930,354; Aug. 10; Sp. p. 1475; Gaz. vol. 145; p. 270.
- Covell, H. N., Brooklyn, N. Y., and J. H. Dickinson, Montclair, N. J., said Covell assignor to Lidgerwood Manufacturing Company. Road-engine. No. 933,825; Sept. 14; Sp. p. 1756; Gaz. vol. 146; p. 291.
- Covelle, A. E., Medford, Mass. Bifocal lens. No. 931,571; Aug. 17; Sp. p. 4081; Gaz. vol. 145; p. 703.
- Covenrly, L. M. (See Border, A. J., assignor.)
- Cover, H. S., South Bend, Ind. Eye-guard. (Reissue.) No. 12,924; Mar. 2; Sp. p. 1538; Gaz. vol. 140; p. 237.
- Covert, E. C., New Kensington, assignor to P. H. Murphy, Pittsburg, Pa. Car-roof. No. 942,249; Dec. 7; Sp. p. 474; Gaz. vol. 149; p. 73.
- Covert, F. W., assignor to Covert Manufacturing Company, Watervliet, N. Y. Snap-hook. No. 908,842; Jan. 5; Sp. p. 855; Gaz. vol. 138; p. 134.
- Covert, F. W., assignor to Covert Manufacturing Company, Watervliet, N. Y. Spring-tongue snap-hook. No. 917,550; Apr. 6; Sp. p. 1158; Gaz. vol. 141; p. 202.
- Covert, H. T. E., Calvin, N. D. Music-leaf turner. No. 931,572; Aug. 17; Sp. p. 4082; Gaz. vol. 145; p. 703.
- Covert, H. W., Waterford, N. Y. Sash-lock. No. 916,274; Mar. 23; Sp. p. 5309; Gaz. vol. 140; p. 940.
- Covert, J. C., Watervliet, N. Y. Fire-escape. No. 929,288; July 27; Sp. p. 5373; Gaz. vol. 144; p. 946.
- Covert, J. C., assignor to Covert Manufacturing Company, Watervliet, N. Y. Breast-strap snap-hook. No. 908,843; Jan. 5; Sp. p. 857; Gaz. vol. 138; p. 135.
- Covert Manufacturing Company. (See Covert, F. W., assignor.)
- Covert Manufacturing Company. (See Covert, J. C., assignor.)



*Alphabetical list of patentees—Continued.*

- Covey, A. L., St. Paul, Nebr. Plow. No. 924,222; June 8; Sp. p. 2476; Gaz. vol. 143; p. 402.  
 Covey, M. E., Elgin, Ill. Thill-support. No. 925,157; June 15; Sp. p. 4389; Gaz. vol. 143; p. 749.  
 Covey, N. S. (See Humphrey, E. H., assignor.)  
 Covington, J. C., assignor of one-half to H. J. Bennett, Clio, S. C. Fertilizer-distributer. No. 915,661; Mar. 16; Sp. p. 4154; Gaz. vol. 140; p. 716.  
 Covington, S. E., Bellefontaine, Ohio. Corset. No. 932,681; Aug. 31; Sp. p. 6473; Gaz. vol. 145; p. 1115.  
 Cowan, F. W. (See Wilder and Cowan.)  
 Cowan, J. H. (See Jolliffe and Cowan.)  
 Cowan, J. H., Ottawa, Ontario, Canada. Pocket-holder for pens, pencils, or like articles. No. 923,948; June 8; Sp. p. 1871; Gaz. vol. 143; p. 312.  
 Cowan, J. P., Pittsburg, Pa. Water-closet seat. No. 911,942; Feb. 9; Sp. p. 1792; Gaz. vol. 139; p. 330.  
 Cowan, W. W., assignor to Stratford Bridge and Iron Works Company, Stratford, Ontario, Canada. Snow-plow for sidewalks and highways. No. 928,363; July 20; Sp. p. 3478; Gaz. vol. 144; p. 614.  
 Cowburn, T., Brockworth, England. Egg-opener. No. 940,790; Nov. 23; Sp. p. 5218; Gaz. vol. 148; p. 886.  
 Cowden, R. I., Falconer, N. Y. Bob-sled. No. 930,459; Aug. 10; Sp. p. 1682; Gaz. vol. 145; p. 304.  
 Cowdrey, M. E., Arlington, Ga. Table attachment for bedsteads. No. 912,936; Feb. 16; Sp. p. 3945; Gaz. vol. 139; p. 694.  
 Cowell, L. L., and G. Unser, Ludington, Mich. Window-screen. No. 916,389; Mar. 23; Sp. p. 5519; Gaz. vol. 140; p. 980.  
 Cowen, G. A., Boston, Mass. Measuring apparatus. No. 941,359; Nov. 30; Sp. p. 6423; Gaz. vol. 148; p. 1095.  
 Cowen, J. T., Pittsburg, Pa. Necktie. No. 922,089; May 18; Sp. p. 4114; Gaz. vol. 142; p. 718.  
 Cowgill, G. W., administrator. (See Embleton, J.)  
 Cowgill, P., Central City, Nebr. Oil-can attachment. No. 925,870; June 22; Sp. p. 5844; Gaz. vol. 143; p. 1010.  
 Cowham, W. F. (See Normandin, L. P., assignor.)  
 Cowie, J. T. (See Schaake and Cowie.)  
 Cowie, J. T., assignor of one-half to H. Schaake, New Westminster, British Columbia, Canada. Gas-engine. No. 935,091; Sept. 28; Sp. p. 4267; Gaz. vol. 146; p. 762.  
 Cowles, E. P., Lansing, Mich. Variable-speed-transmission gear. No. 939,589; Nov. 9; Sp. p. 2533; Gaz. vol. 148; p. 417.  
 Cowles, J. T., Chicago, Ill. Basement-stairway. No. 920,274; May 4; Sp. p. 401; Gaz. vol. 142; p. 61.  
 Cowley, J. T., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Conveying apparatus. No. 923,337; June 1; Sp. p. 525; Gaz. vol. 143; p. 75.  
 Cowley, J. T., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Elevator. No. 928,364; July 20; Sp. p. 3479; Gaz. vol. 144; p. 614.  
 Cowley, J. T., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Conveying apparatus. No. 928,365; July 20; Sp. p. 3482; Gaz. vol. 144; p. 614.  
 Cowley, J. T., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Ball-carrier. No. 932,762; Aug. 31; Sp. p. 6638; Gaz. vol. 145; p. 1142.  
 Cowper-Coles, S. O., London, England. Inlaying, ornamenting, and case-hardening metallic surfaces. No. 911,116; Feb. 2; Sp. p. 181; Gaz. vol. 139; p. 34.  
 Cowper-Coles, S. O., Westminster, London, England. Manufacture of reflectors. No. 915,414; Mar. 16; Sp. p. 3621; Gaz. vol. 140; p. 631.  
 Cowper-Coles, S. O., Westminster, London, England. Manufacture of metallic mirrors. No. 915,415; Mar. 16; Sp. p. 3623; Gaz. vol. 140; p. 631.  
 Cowper-Coles, S. O., Westminster, London, England. Manufacture of cement. No. 939,217; Nov. 9; Sp. p. 1653; Gaz. vol. 148; p. 291.  
 Cowper-Coles, S. O., London, England. Manufacture of zinc-dust. No. 923,411; June 1; Sp. p. 686; Gaz. vol. 143; p. 100.  
 Cox, A. G., assignor to A. G. Cox Mfg. Co., Winterville, N. C. Combined school desk and seat. No. 923,814; June 8; Sp. p. 1627; Gaz. vol. 143; p. 269.  
 Cox, A. L., *et al.* (See Sims, Hatch, and Turrentine, assignors.)  
 Cox, A. L., Elizabethtown, Ky. Cover for milk-receptacles. No. 928,943; July 27; Sp. p. 4637; Gaz. vol. 144; p. 832.  
 Cox, A. L., Elizabethtown, Ky. Door-fastener. No. 930,534; Aug. 10; Sp. p. 1881; Gaz. vol. 145; p. 332.  
 Cox, B. E., San Francisco, Cal. Weather-strip for doors. No. 924,434; June 8; Sp. p. 2888; Gaz. vol. 143; p. 472.  
 Cox & Brother, G. S. (See Cox, G. S., assignor.)  
 Cox, C. B., Wilmington, Del. Oil-can for oilstone-boxes. No. 913,268; Feb. 23; Sp. p. 4631; Gaz. vol. 139; p. 831.  
 Cox, D. (See Greear and Cox.)  
 Cox, C. E., Indianapolis, Ind. Transmission-controller. No. 941,407; Nov. 30; Sp. p. 6553; Gaz. vol. 148; p. 1111.  
 Cox, C. H., *et al.* (See Parker, E. A., assignor.)  
 Cox, C. S., and R. B. Butler, San Francisco, Cal. Rotary rock-drill. No. 924,743; June 15; Sp. p. 3550; Gaz. vol. 143; p. 609.  
 Cox, F. W., *et al.*, trustees. (See Taylor, W. M., assignor.)  
 Cox, F. W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Commutator for dynamo-electric machines. No. 920,920; May 11; Sp. p. 1692; Gaz. vol. 142; p. 301.  
 Cox, G. S., Fitzwaterstown, Pa., assignor to G. S. Cox and Brother. Selecting device for haircloth-loom. No. 923,144; June 1; Sp. p. 45; Gaz. vol. 143; p. 8.  
 Cox, G. S., Edge Hill, Pa., assignor to G. S. Cox & Brother. Haircloth-loom. No. 931,276; Aug. 17; Sp. p. 3502; Gaz. vol. 145; p. 606.  
 Cox, G. S., Edge Hill, Pa., assignor to G. S. Cox and Brother. Haircloth-loom. No. 931,683; Aug. 17; Sp. p. 4319; Gaz. vol. 145; p. 738.  
 Cox, J. H., Aston, juxta Birmingham, England. Magazine air-gun. No. 926,546; June 29; Sp. p. 7176; Gaz. vol. 143; p. 1268.  
 Cox, J. J., *et al.* (See Cox, J. T., assignor.)  
 Cox, J. T., Monticello, assignor of two-thirds to W. S. Cox, Culverton, and J. J. Cox, Macon, Ga. Cotton-seed separator. No. 914,800; Mar. 9; Sp. p. 2408; Gaz. vol. 140; p. 404.  
 Cox, J. W. (See Shields and Cox.)  
 Cox, L. M., Brooklyn, N. Y. Dry-dock. No. 931,182; Aug. 17; Sp. p. 3286; Gaz. vol. 145; p. 573.  
 Cox, M. O., Tygh Valley, Oreg. Animal-trap. No. 921,204; May 11; Sp. p. 2269; Gaz. vol. 142; p. 398.  
 Cox, L. P., Fort Wayne, Ind. Folding crate. No. 916,848; Mar. 30; Sp. p. 6442; Gaz. vol. 140; p. 1150.  
 Cox, P. F., Jackson, Mich. Beer-tapping device. No. 908,447; Jan. 5; Sp. p. 27; Gaz. vol. 138; p. 6.  
 Cox, P. F., Battle Creek, Mich., assignor, by mesne assignments, to Standard Assembler Company, Augusta, Me. Feeder for stuffing-machines, &c. No. 924,637; June 15; Sp. p. 3326; Gaz. vol. 143; p. 573.  
 Cox, R. J., Chaney, Okla. Penholder. No. 939,810; Nov. 9; Sp. p. 3007; Gaz. vol. 148; p. 495.  
 Cox, R. W., assignor of one-half to J. L. Kohl, Springfield, Ohio. Railway-switch. No. 928,632; July 20; Sp. p. 4019; Gaz. vol. 144; p. 701.  
 Cox, W., Toronto, Ontario, Canada. Receptacle for coins, tickets, admission-fees, and the like. No. 917,256; Apr. 6; Sp. p. 606; Gaz. vol. 141; p. 104.  
 Cox, W., assignor to Trust Company of North America, trustee, Philadelphia, Pa. Apparatus for handling shaped masses of incoherent material. No. 920,275; May 4; Sp. p. 404; Gaz. vol. 142; p. 61.  
 Cox, W., assignor to Trust Company of North America, trustee, Philadelphia, Pa. Handling shaped or molded masses of incoherent material. No. 920,276; May 4; Sp. p. 405; Gaz. vol. 142; p. 61.  
 Cox, W., and P. R. Peterson, Provo, Utah. Grinding attachment for sewing-machines. No. 926,471; June 29; Sp. p. 7048; Gaz. vol. 143; p. 1243.  
 Cox, W., and W. Staples, assignors to George Glover & Company, Limited, London, England. Prepayment apparatus for delivering gas and like fluids. No. 910,179; Jan. 19; Sp. p. 3528; Gaz. vol. 138; p. 643.  
 Cox, W. H., Bucyrus, assignor of one-third to J. A. Morrison and one-third to B. W. Motter, Mansfield, Ohio. Detachable horseshoe-calk. No. 944,666; Dec. 28; Sp. p. 5677; Gaz. vol. 149; p. 985.  
 Cox, W. N., *et al.* (See Moritz, A., assignor.)  
 Cox, W. S., *et al.* (See Cox, J. T., assignor.)  
 Cox, Z. T., Salt Lake City, Utah. Gate. No. 922,461; May 25; Sp. p. 4857; Gaz. vol. 142; p. 868.  
 Coy, E. S., Tacoma, Wash. Tag-holder. No. 917,010; Apr. 6; Sp. p. 89; Gaz. vol. 141; p. 20.  
 Coyle, J. (See Aupperle, J. A. and G. H., assignors.)  
 Coyne, J. J., Fond du Lac, Wis. Concrete building-block. No. 944,950; Dec. 28; Sp. p. 6277; Gaz. vol. 149; p. 1079.  
 Cozins, W. W., Hadley, Pa. Acetylene-gas generator. No. 922,090; May 18; Sp. p. 4115; Gaz. vol. 142; p. 718.  
 Cozzens, C. E., assignor of one-half to H. Groat, Toledo, Ohio. Trolley-pole-controlling means. No. 928,306; July 20; Sp. p. 3373; Gaz. vol. 144; p. 594.  
 Crabb, G. G., Louisville, Ky. Extension-ladder. No. 922,091; May 18; Sp. p. 4117; Gaz. vol. 142; p. 719.  
 Crabtree, J. R., Keota, Okla. Head-gate. No. 908,961; Jan. 5; Sp. p. 1072; Gaz. vol. 138; p. 174.  
 Crabtree, J. R., Garrett, Okla. Gun. No. 938,983; Nov. 2; Sp. p. 1155; Gaz. vol. 148; p. 184.  
 Cracraft-Leich Electric Co. (See Leich, O. M., assignor.)  
 Craft, E. B., assignor to Western Electric Company, Chicago, Ill. Adjustable bracket. No. 921,367; May 11; Sp. p. 2632; Gaz. vol. 142; p. 453.

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- Craft, E. B., assignor to Western Electric Company, Chicago, Ill. Electromagnetic signal-controlling device. No. 923,949; June 8; Sp. p. 1872; Gaz. vol. 143; p. 312.
- Craft, E. B., and J. W. Harris, Hackensack, N. J., assignors to Western Electric Company, Chicago, Ill. Alloy. No. 937,284; Oct. 19; Sp. p. 3511; Gaz. vol. 147; p. 607.
- Craft, E. B., and J. W. Harris, Hackensack, N. J., assignors to Western Electric Company, Chicago, Ill. Alloy. No. 937,285; Oct. 19; Sp. p. 3512; Gaz. vol. 147; p. 607.
- Craft, L. H., Dennison, Ohio, assignor to Union Switch & Signal Company, Swissvale, Pa. Railway signaling mechanism. No. 910,911; Jan. 26; Sp. p. 5062; Gaz. vol. 138; p. 912.
- Cragg, H. C., Washington, D. C. Cigar cutter and perforator. No. 925,158; June 15; Sp. p. 4390; Gaz. vol. 143; p. 749.
- Crago, A. C., Waynesburg, Pa. Bracket-support. No. 914,387; Mar. 9; Sp. p. 1574; Gaz. vol. 140; p. 267.
- Craig, A. E. S., West Ealing, England. Dynamometer. No. 943,391; Dec. 14; Sp. p. 2916; Gaz. vol. 149; p. 491.
- Craig, C. A. (See Burden, C. L., assignor.)
- Craig, C. H., Boulder, Colo. Sash-balance. No. 931,007; Aug. 10; Sp. p. 2889; Gaz. vol. 145; p. 486.
- Craig, D., Melrose, Mass., assignor to David Craig Company. Stool for water-closets. No. 940,435; Nov. 16; Sp. p. 4432; Gaz. vol. 148; p. 741.
- Craig, E., Springfield, Ohio. Fence. No. 910,459; Jan. 19; Sp. p. 4143; Gaz. vol. 138; p. 743.
- Craig, E. J., Tuttle, Okla. Cultivator. No. 928,029; July 13; Sp. p. 2758; Gaz. vol. 144; p. 470.
- Craig, J., assignor to National Iron and Wire Company, Cleveland, Ohio. Post-cap. No. 915,074; Mar. 16; Sp. p. 2904; Gaz. vol. 140; p. 518.
- Craig, J. F. and W. D., Oakland, Ill.; said W. D. Craig assignor to said J. F. Craig. Brooder. No. 913,813; Mar. 2; Sp. p. 282; Gaz. vol. 140; p. 48.
- Craig, L. D., San Francisco, Cal. Apparatus for cutting road-beds. No. 916,676; Mar. 30; Sp. p. 6133; Gaz. vol. 140; p. 1098.
- Craig, L. D., San Francisco, Cal. Apparatus for cutting road-beds. (Reissue.) No. 13,055; Dec. 14; Sp. p. 3486; Gaz. vol. 149; p. 579.
- Craig, R. B., and A. Coffman, assignors to Automatic Vending Machines Company, Kansas City, Mo. Ribbon-feeding mechanism. No. 943,624; Dec. 14; Sp. p. 3434; Gaz. vol. 149; p. 573.
- Craig, S., Decatur, Ill. Truck. No. 938,301; Oct. 26; Sp. p. 5666; Gaz. vol. 147; p. 965.
- Craig, W. D. (See Craig, J. F. and W. D.)
- Craig, W. N., Moline, Ill. Folding square. No. 944,541; Dec. 28; Sp. p. 5419; Gaz. vol. 149; p. 942.
- Craige, E. H., New York, N. Y. Needle and shuttle operating mechanism for sewing machines. No. 933,235; Sept. 7; Sp. p. 469; Gaz. vol. 146; p. 73.
- Crain, W., assignor of one-half to W. Moulie, Percy, Ill. Mowing-machine. No. 943,181; Dec. 14; Sp. p. 2469; Gaz. vol. 149; p. 420.
- Craine, W., Brookfield, N. Y. Fire-escape. No. 935,142; Sept. 28; Sp. p. 4370; Gaz. vol. 146; p. 779.
- Cralle, A. F., Aberdeen, S. D. Extensible ladder. No. 923,815; June 8; Sp. p. 1628; Gaz. vol. 143; p. 270.
- Cram, E. B., Brooklyn, N. Y., assignor to New York Adding Typewriter Company, Orange, N. J. Stop device for type-writers. No. 913,362; Feb. 23; Sp. p. 4820; Gaz. vol. 139; p. 864.
- Cram, E. B., Brooklyn, N. Y., assignor to New York Adding Typewriter Company, Orange, N. J. Tabulator. No. 932,768; Aug. 31; Sp. p. 6640; Gaz. vol. 145; p. 1142.
- Cram, E. B., Brooklyn, N. Y., assignor to New York Adding Typewriter Company, Orange, N. J. Line-spacing mechanism. No. 933,021; Aug. 31; Sp. p. 7132; Gaz. vol. 145; p. 1225.
- Cram, V. D., Salt Lake City, Utah. Combined ironing-board and step-ladder. No. 924,744; June 15; Sp. p. 3553; Gaz. vol. 143; p. 610.
- Cramer, C. W., Minneapolis, Minn. Governor-regulator. No. 924,638; June 15; Sp. p. 3328; Gaz. vol. 143; p. 573.
- Cramer, E. F., Satsop, Wash. Refrigerator. No. 939,891; Nov. 9; Sp. p. 3166; Gaz. vol. 148; p. 522.
- Cramer, H. C., Kingwood, Pa. Kettle-hanger. No. 936,093; Oct. 5; Sp. p. 1040; Gaz. vol. 147; p. 158.
- Cramer, H. M., assignor to "New Way" Motor Company, Lansing, Mich. Motor-pump. No. 913,701; Mar. 2; Sp. p. 48; Gaz. vol. 140; p. 10.
- Cramer, H. M., assignor to "New Way" Motor Company, Lansing, Mich. Sparker mechanism for engines. No. 918,286; Apr. 13; Sp. p. 2696; Gaz. vol. 141; p. 477.
- Cramer, H. M., assignor to "New Way" Motor Company, Lansing, Mich. Sprayer. No. 918,512; Apr. 20; Sp. p. 3161; Gaz. vol. 141; p. 579.
- Cramer, H. M., assignor to "New Way" Motor Company, Lansing, Mich. Governor for explosion-engines. No. 924,639; June 15; Sp. p. 3330; Gaz. vol. 143; p. 573.
- Cramer, H. M., assignor to "New Way" Motor Company, Lansing, Mich. Explosion-engine. No. 924,640; June 15; Sp. p. 3333; Gaz. vol. 143; p. 574.
- Cramer, J. G., East Orange, N. J. Vehicle-tire. No. 927,122; July 6; Sp. p. 886; Gaz. vol. 144; p. 143.
- Cramer, J. M., Gardner, Kans. Match-box. No. 934,287; Sept. 14; Sp. p. 2665; Gaz. vol. 146; p. 442.
- Cramer, J. T., and F. S. Langley, Cabinet, Idaho. Lock or safety nut. No. 915,559; Mar. 16; Sp. p. 3933; Gaz. vol. 140; p. 678.
- Cramer, S. W., Charlotte, N. C. Humidifier and air-moistening apparatus. No. 908,962; Jan. 5; Sp. p. 1073; Gaz. vol. 138; p. 174.
- Cramer, S. W., Charlotte, N. C. Humidifying and air-moistening apparatus. No. 908,963; Jan. 5; Sp. p. 1079; Gaz. vol. 138; p. 174.
- Cramer, S. W., Charlotte, N. C. Humidifier and air-moistening apparatus. No. 908,964; Jan. 5; Sp. p. 1081; Gaz. vol. 138; p. 175.
- Cramer, S. W., Charlotte, N. C. Humidifying and air-conditioning apparatus. No. 914,640; Mar. 9; Sp. p. 2062; Gaz. vol. 140; p. 351.
- Cramer, S. W., Charlotte, N. C. Spray-nozzle for humidifiers. No. 921,205; May 11; Sp. p. 2271; Gaz. vol. 142; p. 399.
- Cramer, W. G., Buffalo, N. Y. Sewer and gutter pipe connection. No. 916,275; Mar. 23; Sp. p. 5311; Gaz. vol. 140; p. 940.
- Crammer, H. C., Philadelphia, Pa. Wind-shield. No. 920,546; May 4; Sp. p. 920; Gaz. vol. 142; p. 148.
- Crammer, N. P., Long Branch, N. J. Carpenter's implement. No. 918,130; Apr. 13; Sp. p. 2379; Gaz. vol. 141; p. 426.
- Cramp, P., *et al.* (See Corrigan, J., assignor.)
- Crampton, B. R., Chicago, Ill. Latch for doors, gates, windows, &c. No. 928,030; July 13; Sp. p. 2759; Gaz. vol. 144; p. 471.
- Crandall, C., Newport, R. I. Electrical signaling system for railways. No. 924,968; June 15; Sp. p. 4027; Gaz. vol. 143; p. 686.
- Crandall, C., Newport, R. I., assignor of one-half to H. F. Curran, Springfield, Mass. Automatic electrical signaling system for railways. No. 914,801; Mar. 9; Sp. p. 2409; Gaz. vol. 140; p. 404.
- Crandall, J. A., assignor of one-third to E. B. Schnebley, trustee, Brooklyn, and one-third to W. P. Hampshire, Aqueduct, N. Y. Vehicle-wheel. No. 934,793; Sept. 21; Sp. p. 3660; Gaz. vol. 146; p. 636.
- Crandall, L. S., Washington, N. J., assignor to B. F. Tracy, New York, N. Y. Type-bar. No. 926,318; June 29; Sp. p. 6760; Gaz. vol. 143; p. 1192.
- Crandall, L. S., Washington, N. J., assignor to B. F. Tracy, New York, N. Y. Adding and listing machine. No. 926,319; June 29; Sp. p. 6765; Gaz. vol. 143; p. 1193.
- Crane, A. T., New Britain, Conn. Tool for finishing screw-threads. No. 935,247; Sept. 28; Sp. p. 4570; Gaz. vol. 146; p. 813.
- Crane, C. F., New York, N. Y. Air-tight fire-pail. No. 939,220; Nov. 9; Sp. p. 1658; Gaz. vol. 148; p. 292.
- Crane Company. (See Doolittle, W. W., assignor.)
- Crane Company. (See Houser, A. M., assignor.)
- Crane Company. (See Olson and Hayden, assignors.)
- Crane, D., Rutland, Vt. Guard-rail chair. No. 915,745; Mar. 23; Sp. p. 4333; Gaz. vol. 140; p. 770.
- Crane, E. H. (See Crane, E. T. and E. H.)
- Crane, E. H., Kalamazoo, Mich. Fishing-rod. No. 931,277; Aug. 17; Sp. p. 3505; Gaz. vol. 145; p. 606.
- Crane, E. T. and E. H., Odebolt, Iowa. Folding umbrella. No. 934,506; Sept. 21; Sp. p. 3095; Gaz. vol. 146; p. 540.
- Crane, F., *et al.* (See Baker, W., assignor.)
- Crane, F. H., New York, N. Y., and C. A. King, Jersey City, N. J. Power-transmission and reversing gearing. No. 937,771; Oct. 26; Sp. p. 4537; Gaz. vol. 147; p. 786.
- Crane, G. G., Rockford, Ill. Car-oller. No. 921,594; May 11; Sp. p. 3061; Gaz. vol. 142; p. 526.
- Crane, G. G., Rockford, Ill. Car-schedule. No. 934,507; Sept. 21; Sp. p. 3096; Gaz. vol. 146; p. 540.
- Crane, G. W. (See Glaser and Olsen, assignors.)
- Crane, I. B., Brooklyn, N. Y. Car-fender. No. 922,092; May 18; Sp. p. 4118; Gaz. vol. 142; p. 719.
- Crane, J. A., Handsworth Wood, England. Bedstead and the like. No. 917,551; Apr. 6; Sp. p. 1160; Gaz. vol. 141; p. 202.
- Crane, J. H. V., Seattle, Wash. Life-preserver. No. 917,416; Apr. 6; Sp. p. 920; Gaz. vol. 141; p. 160.
- Crane, J., Jr., Westwood, Mass. Advertising apparatus for cars, &c. No. 932,764; Aug. 31; Sp. p. 6643; Gaz. vol. 145; p. 1143.
- Crane, J. J. (See Lynch and Crane.)
- Crane, J. P., Springfield, Mass. Silver-can. No. 923,493; June 1; Sp. p. 843; Gaz. vol. 143; p. 128.
- Crane, M. B., assignor to A. R. Creditor, Springfield, Mass. Heel-cushion. No. 927,831; July 13; Sp. p. 2343; Gaz. vol. 144; p. 404.
- Crane, R., Philadelphia, Pa. System of accounting and tagging. No. 922,672; May 25; Sp. p. 5299; Gaz. vol. 142; p. 937.
- Crane, S. G. (See Bane and Crane.)
- Crane, S. W., La Fayette, Ind. Filing-cabinet. No. 934,428; Sept. 21; Sp. p. 2948; Gaz. vol. 146; p. 514.
- Cranneil, C. W., assignor of one-third to C. D. Steward and two-thirds to E. E. McCurdy, Lebanon, Pa. Horseshoe. No. 929,395; July 27; Sp. p. 5606; Gaz. vol. 144; p. 983.
- Cranneil, C. W., assignor of one-third to C. D. Steward and two-thirds to E. E. McCurdy, Lebanon, Pa. Horseshoe. No. 929,396; July 27; Sp. p. 5608; Gaz. vol. 144; p. 983.
- Cranston, S., Glasgow, Scotland. Machine for roasting coffee and for other purposes. No. 918,423; Apr. 13; Sp. p. 2955; Gaz. vol. 141; p. 521.
- Cranstoun, W., *et al.* (See Clifford, T. G., assignor.)



*Alphabetical list of patentees—Continued.*

- Cranwell, B. F., Henderson, and C. F. F. Allan and J. H. Trudgeon, Auckland, New Zealand. Broadcast attachment for planters and fertilizer-distributors. No. 923,023; May 25; Sp. p. 6026; Gaz. vol. 142; p. 1049.
- Crass, G. F., assignor of one-half to D. Finkelstein, Ithaca, N. Y. Shock-absorbing wheel. No. 935,622; Sept. 28; Sp. p. 5338; Gaz. vol. 146; p. 936.
- Crater, J. M., New Germantown, N. J. Bed-pan. No. 926,103; June 29; Sp. p. 6319; Gaz. vol. 143; p. 1122.
- Craven, J. F., *et al.* (See Craven, J. F., assignor.)
- Craven, J. F., Pittsburg, Pa. Nut and bolt lock. No. 915,830; Mar. 23; Sp. p. 4492; Gaz. vol. 140; p. 977.
- Craven, J. F., Pittsburg, Pa. Sectional sheet-metal wheel. No. 928,633; July 20; Sp. p. 4021; Gaz. vol. 144; p. 701.
- Craven, J. F., Pittsburg, Pa. Barrel or keg. No. 943,815; Dec. 21; Sp. p. 3835; Gaz. vol. 149; p. 667.
- Craven, J. F., Crafton, Pa. Making sheet-metal wheels or pulleys. No. 926,643; June 29; Sp. p. 7366; Gaz. vol. 143; p. 1300.
- Craven, J. F., assignor, by direct and mesne assignments, to said J. F. Craven and G. McCargo, Pittsburg, Pa. Sheet-metal wheel. No. 915,829; Mar. 23; Sp. p. 4490; Gaz. vol. 140; p. 796.
- Craw, F. C., South Norwalk, assignor of one-half to F. M. Raymond, Saugatuck, Conn. Speed-regulating and brake mechanism. No. 928,182; July 13; Sp. p. 3049; Gaz. vol. 144; p. 521.
- Crawford, A. B. (See Mills, B. L., assignor.)
- Crawford, A. G., Newcastle, Pa. Tool for applying bridles to piano-actions. No. 938,826; Nov. 2; Sp. p. 811; Gaz. vol. 148; p. 130.
- Crawford, A. R. (See Mooney, W. T., assignor.)
- Crawford, D. F., Pittsburg, Pa. Draft-gear mechanism. No. 915,272; Mar. 16; Sp. p. 3342; Gaz. vol. 140; p. 584.
- Crawford, D. F., Pittsburg, Pa. Mechanical stoker for locomotives. No. 941,698; Nov. 30; Sp. p. 7148; Gaz. vol. 148; p. 1207.
- Crawford, F. M., Branson, Mo. Collapsible crate. No. 919,828; Apr. 27; Sp. p. 6169; Gaz. vol. 141; p. 1052.
- Crawford-Frost, W. A., Baltimore, Md. Trolley device for electric cars. No. 918,287; Apr. 13; Sp. p. 2699; Gaz. vol. 141; p. 478.
- Crawford, G. N., Chicago, Ill., assignor to Lidgerwood Manufacturing Company, New York, N. Y. Wheel-check. No. 936,417; Oct. 12; Sp. p. 1712; Gaz. vol. 147; p. 289.
- Crawford, H. E. S., Sumner, Mo. Backwater cut-off. No. 921,513; May 11; Sp. p. 2922; Gaz. vol. 142; p. 501.
- Crawford, H. H., El Paso, Tex. Harness. No. 939,985; Nov. 16; Sp. p. 3388; Gaz. vol. 148; p. 584.
- Crawford, J. G., Millinocket, Me. Cement building-block. No. 912,080; Feb. 9; Sp. p. 2169; Gaz. vol. 139; p. 375.
- Crawford, J. G. (See Terry, O. M., assignor.)
- Crawford, J. G., La Grange, assignor to Western Electric Company, Chicago, Ill. Connection-board for electric machines. No. 931,573; Aug. 17; Sp. p. 4083; Gaz. vol. 145; p. 703.
- Crawford, N. B. (See Van Fossen, W. H., assignor.)
- Crawford, R. W., Jr., and R. H. Beck, Lamar, Colo. Attachment for mail-catchers. No. 914,802; Mar. 9; Sp. p. 2413; Gaz. vol. 140; p. 405.
- Crawford, R. W., Jr., R. H. Beck, and L. W. Davies, Lamar, Colo. Intensifier for telegraph-sounders. No. 928,589; July 20; Sp. p. 3927; Gaz. vol. 144; p. 688.
- Crawford, S. T., assignor of one-half to W. Green, Baltimore, Md. Boat-propeller. No. 929,564; July 27; Sp. p. 5897; Gaz. vol. 144; p. 1036.
- Crawford, T. J., Tallapoosa, Ga. Air-brake attachment. No. 908,648; Jan. 5; Sp. p. 471; Gaz. vol. 138; p. 74.
- Crawford, V. O., Fort Smith, Ark. Crib attachment for bedsteads. No. 914,641; Mar. 9; Sp. p. 2064; Gaz. vol. 140; p. 351.
- Crawford, V. T., Ohio, Miss. Window-shade-roller bracket. No. 938,642; Nov. 2; Sp. p. 436; Gaz. vol. 148; p. 67.
- Crawford, W. C. (See Guyer, C., assignor.)
- Crawshaw, G. *et al.* (See Haworth, Briggs, and Ayrey, assignors.)
- Craycroft, B. R. (See Collison, J., assignor.)
- Creamer, E. R., Huntington, assignor of one-half to G. F. Kreitlein, Indianapolis, Ind. Lock for automobiles and the like. No. 915,416; Mar. 16; Sp. p. 3623; Gaz. vol. 140; p. 631.
- Creamery Package Mfg. Company. (See Collins, J. D., assignor.)
- Creamery Package Manufacturing Company. (See Macnish, F. J., assignor.)
- Creamery Package Manufacturing Company. (See Macnish and Penn, assignors.)
- Creamery Package Manufacturing Company. (See Valerius, T. L., assignor.)
- Crease-Williams, G. H., Buenos Ayres, Argentina. Device for drawing liquids from closed receptacles. No. 933,161; Sept. 7; Sp. p. 267; Gaz. vol. 146; p. 44.
- Crease-Williams, G. H., Buenos Ayres, Argentina. Sash-fastener. No. 944,542; Dec. 28; Sp. p. 5422; Gaz. vol. 149; p. 942.
- Creasey, S. E., Portland, Me. Fly-book. No. 940,132; Nov. 16; Sp. p. 3739; Gaz. vol. 148; p. 637.
- Crececius, I. R., Gibson county, Ind. Coupling device. No. 915,160; Mar. 16; Sp. p. 3125; Gaz. vol. 140; p. 548.
- Créchirou, Y. M., Monterey, Cal. Car-fender. No. 929,397; July 27; Sp. p. 5610; Gaz. vol. 144; p. 984.
- Crediford, A. R. (See Crane, M. B., assignor.)
- Crech, J. S. (See Ellis, Purvis, and Crech.)
- Crecey, E. W. (See Cribb, B. W., assignor.)
- Criegler, N. B., Chicago, Ill. Signaling system. No. 915,075; Mar. 16; Sp. p. 2907; Gaz. vol. 140; p. 519.
- Crehore, A. C., Yonkers, N. Y. Synchronizing means for electrical apparatus. No. 913,363; Feb. 23; Sp. p. 4823; Gaz. vol. 139; p. 864.
- Crehore, A. C., Yonkers, assignor to Typewriting Telegraph Company, New York, N. Y. Printing-telegraph. No. 917,011; Apr. 6; Sp. p. 90; Gaz. vol. 141; p. 20.
- Creighton, E. E. F., Schenectady, N. Y., assignor, by mesne assignments, to General Electric Company. Lightning-arrester. No. 923,024; May 25; Sp. p. 6028; Gaz. vol. 142; p. 1050.
- Creighton, E. E. F., Schenectady, N. Y., assignor to General Electric Company. Ground-leg connection for electrolytic arresters. No. 923,338; June 1; Sp. p. 628; Gaz. vol. 143; p. 76.
- Creighton, E. E. F., Schenectady, N. Y., assignor, by mesne assignments, to General Electric Company. Electrolytic cell or condenser. No. 923,774; June 1; Sp. p. 1475; Gaz. vol. 143; p. 225.
- Creighton, E. E. F., Schenectady, N. Y., assignor to General Electric Company. Electrolytic condenser combined with autotransformer. No. 933,697; Sept. 7; Sp. p. 1508; Gaz. vol. 146; p. 226.
- Creighton, E. E. F., Schenectady, N. Y., assignor to General Electric Company. Intermittent line-switch. No. 933,826; Sept. 14; Sp. p. 1759; Gaz. vol. 146; p. 292.
- Creighton, E. E. F., Schenectady, N. Y., assignor to General Electric Company. Adjunct for aluminum-cell lightning-arresters. No. 933,827; Sept. 14; Sp. p. 1761; Gaz. vol. 146; p. 292.
- Creighton, N. B., New York, N. Y. Valve. No. 912,816; Feb. 16; Sp. p. 3745; Gaz. vol. 139; p. 659.
- Creighton, N. B., New York, N. Y. Shield and burner. No. 916,110; Mar. 23; Sp. p. 5010; Gaz. vol. 140; p. 888.
- Creller, C. F. (See Harton and Creller.)
- Crell, A. P., Ionia, Mich. Mechanical movement. No. 925,564; June 22; Sp. p. 5158; Gaz. vol. 143; p. 909.
- Crell, A. P., Ionia, Mich. Alternating mechanical movement. No. 930,271; Aug. 3; Sp. p. 1315; Gaz. vol. 145; p. 217.
- Crenshaw, J. A., Coleman, Fla. Target-trap. No. 917,850; Apr. 13; Sp. p. 1779; Gaz. vol. 141; p. 327.
- Crepeau, W., Scotia, N. Y. Water-cycle. No. 919,134; Apr. 20; Sp. p. 4495; Gaz. vol. 141; p. 785.
- Creque, F. J., Cuyahoga Falls, Ohio. Balloon-cane. No. 918,973; Apr. 20; Sp. p. 4202; Gaz. vol. 141; p. 734.
- Crescent Machine Company. (See Wilderson, C. G., assignor.)
- Crescent Manufacturing Company. (See Brown and Sprink, assignors.)
- Cresse, E., West Cape May, N. J. Closet-seat warmer. No. 929,079; July 27; Sp. p. 4918; Gaz. vol. 144; p. 877.
- Cressman, J., Jansen, Neb. Belt-shifter. No. 932,000; Aug. 24; Sp. p. 5057; Gaz. vol. 145; p. 865.
- Cretors, C., Chicago, Ill. Steam-generator. No. 923,145; June 1; Sp. p. 47; Gaz. vol. 143; p. 8.
- Creveling, J. L., New York, N. Y. Telephone apparatus. No. 920,277; May 4; Sp. p. 407; Gaz. vol. 142; p. 62.
- Creveling, J. L., New York, N. Y. Electric train or vehicle. No. 922,752; May 25; Sp. p. 5471; Gaz. vol. 142; p. 962.
- Creveling, J. L., New York, N. Y., assignor to Safety Car Heating & Lighting Company. Electric-lighting system. No. 920,827; May 4; Sp. p. 1484; Gaz. vol. 142; p. 240.
- Creveling, J. L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric distribution. No. 934,997; Sept. 28; Sp. p. 4076; Gaz. vol. 146; p. 731.
- Cribb, B. W., Baltimore, Md., assignor to E. W. Crecey, Washington, D. C. Welding oil-burner. No. 936,220; Oct. 5; Sp. p. 1284; Gaz. vol. 147; p. 195.
- Cribb, B. W., Baltimore, Md., assignor to E. W. Crecey, Washington, D. C. Welding-furnace. No. 936,221; Oct. 5; Sp. p. 1286; Gaz. vol. 147; p. 196.
- Cridger, G. M., Marion, Ky. Type-writer desk or table-top. No. 938,464; Nov. 2; Sp. p. 24; Gaz. vol. 148; p. 6.
- Cridgerman, W. E., Portland, Ore. Fly-trap. No. 917,012; Apr. 6; Sp. p. 97; Gaz. vol. 141; p. 21.
- Crigger, H. C., Memphis, Tenn., assignor of one-third to D. O. Simpson, Kenova, W. Va. Car-coupling. No. 927,453; July 6; Sp. p. 1525; Gaz. vol. 144; p. 251.
- Crim, H. F., and W. C. Loy, Rochester, Ind. Automobile-lock. No. 931,684; Aug. 17; Sp. p. 4321; Gaz. vol. 145; p. 738.
- Crim, H. F., and W. C. Loy, assignors of one-third to C. Hoover, Rochester, Ind. Lock for automobiles. No. 931,685; Aug. 17; Sp. p. 4322; Gaz. vol. 145; p. 738.

*Alphabetical list of patentees—Continued.*

- Crippen, G. F., Detroit, Mich. Bean-picking machine. No. 937,695; Oct. 19; Sp. p. 4351; Gaz. vol. 147; p. 742.  
 Crippen, H. O., Louisville, Ky. Spike-holder. No. 941,621; Nov. 30; Sp. p. 6981; Gaz. vol. 148; p. 1181.  
 Crippen, R. W., Arlington, Kans. Threshing-machine. No. 931,731; Aug. 24; Sp. p. 4466; Gaz. vol. 145; p. 778.  
 Crippen, W. R., Cambridge, assignor to Emerson Piano Company, Boston, Mass. Note-sheet-cutting apparatus. No. 920,921; May 11; Sp. p. 1694; Gaz. vol. 142; p. 301.  
 Crippen, W. R., Cambridge, assignor to Emerson Piano Company, Boston, Mass. Receiving-spool for note-sheets. No. 942,548; Dec. 7; Sp. p. 1091; Gaz. vol. 149; p. 177.  
 Crispin, C. G., Berwick, Pa. Fluid-valve. No. 924,641; June 15; Sp. p. 3334; Gaz. vol. 143; p. 574.  
 Crispo, D., Antwerp, Belgium. Recovery of copper from cuprous residues. No. 936,762; Oct. 12; Sp. p. 2437; Gaz. vol. 147; p. 405.  
 Crist, M. B., Pittsburg, Pa., assignor to Westinghouse Machine Company. Ignition system for internal-combustion engines. No. 922,673; May 25; Sp. p. 5302; Gaz. vol. 142; p. 937.  
 Critchlow, T., Jersey City, N. J. Process of and apparatus for casting metal. No. 917,257; Apr. 6; Sp. p. 614; Gaz. vol. 141; p. 105.  
 Crites, S. J. (See Richey and Crites.)  
 Crittenden, O., Ashland, Ohio. Nut-lock. No. 916,421; Mar. 30; Sp. p. 5605; Gaz. vol. 140; p. 1015.  
 Critz, F. A., Jr., West Point, Miss. Shoe. No. 940,856; Nov. 23; Sp. p. 5348; Gaz. vol. 148; p. 907.  
 Crochet, O., assignor to La Société de Constructions Mécaniques d'Alais, Alais, France. Press for agglomerating combustible briquets. No. 932,682; Aug. 31; Sp. p. 6474; Gaz. vol. 145; p. 1116.  
 Crochet, O., assignor to La Société de Constructions Mécaniques d'Alais, Alais, France. Agglomerating-machine. No. 938,217; Oct. 26; Sp. p. 5485; Gaz. vol. 147; p. 937.  
 Crockard, F. H., Birmingham, Ala. Blast-furnace-charging apparatus. No. 938,411; Oct. 26; Sp. p. 5917; Gaz. vol. 147; p. 1003.  
 Crocker, A. (See Welch and Crocker.)  
 Crocker, E. B. (See Blanchard and Crocker.)  
 Crocker, F. W., North Baltimore, Ohio. Engraver's spoon-clamp. No. 909,759; Jan. 12; Sp. p. 2673; Gaz. vol. 138; p. 472.  
 Crocker, S., Mustang, Okla. Adjustable frame for table-screens. No. 910,117; Jan. 19; Sp. p. 3381; Gaz. vol. 138; p. 621.  
 Crocker, S. H., London, England, assignor to Eagle Pencil Company, New York, N. Y. Spring-protector for india-rubber pencil-tips. No. 922,093; May 18; Sp. p. 4120; Gaz. vol. 142; p. 720.  
 Crocker, W. B., New York, N. Y. Dipping-machine. No. 914,803; Mar. 9; Sp. p. 2413; Gaz. vol. 140; p. 405.  
 Crocker-Wheeler Company. (See Dunn, G. S., assignor.)  
 Crocker Wheeler Company. (See Heitmann, E., assignor.)  
 Crocker-Wheeler Company. (See Young, F. W., assignor.)  
 Crocker-Wheeler Company. (See Young and Heitmann, assignors.)  
 Crockett, D., Birmingham, Ala. Door-stop. No. 940,436; Nov. 16; Sp. p. 4436; Gaz. vol. 148; p. 742.  
 Crockett, W. P., et al. (See Eck, R., assignor.)  
 Croel, C. A., Ithaca, Mich. Bean-separator. No. 933,629; Sept. 7; Sp. p. 1361; Gaz. vol. 146; p. 203.  
 Croft, H. W. (See Walker and Croft.)  
 Crofut, U. E., Jr., Scranton, Pa. Extension car-step. No. 924,537; June 8; Sp. p. 3100; Gaz. vol. 143; p. 506.  
 Crombie, H. S., Woburn, Mass. Device for supporting hides. No. 936,522; Oct. 12; Sp. p. 1957; Gaz. vol. 147; p. 323.  
 Crompton & Company. (See Williams, A., assignor.)  
 Crompton, G. C., Park City, Utah. Presser-foot. No. 937,204; Oct. 19; Sp. p. 3333; Gaz. vol. 147; p. 580.  
 Crompton & Knowles Loom Works. (See Ambler, G. B., assignor.)  
 Crompton & Knowles Loom Works. (See Arthur, H. N., assignor.)  
 Crompton & Knowles Loom Works. (See Bardsley, H., assignor.)  
 Crompton & Knowles Loom Works. (See Clark, J. A., assignor.)  
 Crompton & Knowles Loom Works. (See Crompton, R., assignor.)  
 Crompton & Knowles Loom Works. (See Crompton and Fitton, assignors.)  
 Crompton & Knowles Loom Works. (See Davidson, J. L., assignor.)  
 Crompton & Knowles Loom Works. (See Fitton and Berglund, assignors.)  
 Crompton & Knowles Loom Works. (See Gordon, A. A., Jr., assignor.)  
 Crompton & Knowles Loom Works. (See Holmes, E. R., assignor.)  
 Crompton & Knowles Loom Works. (See Holmes and Verry, assignors.)  
 Crompton & Knowles Loom Works. (See Hutchins, G. F., assignor.)  
 Crompton & Knowles Loom Works. (See Jenckes and Hutchins, assignors.)  
 Crompton & Knowles Loom Works. (See Le Doux, H., assignor.)  
 Crompton & Knowles Loom Works. (See Lutton, W. J., assignor.)  
 Crompton & Knowles Loom Works. (See Macpherson, P., assignor.)  
 Crompton & Knowles Loom Works. (See Marco, J. M., assignor.)  
 Crompton & Knowles Loom Works. (See McCleary, W. E., assignor.)  
 Crompton & Knowles Loom Works. (See McGuiness, B. F., assignor.)  
 Crompton & Knowles Loom Works. (See Miller, D. D., assignor.)  
 Crompton & Knowles Loom Works. (See Partlow, C., assignor.)  
 Crompton & Knowles Loom Works. (See Regan, J., assignor.)  
 Crompton & Knowles Loom Works. (See Ryan, E. H., assignor.)  
 Crompton & Knowles Loom Works. (See Smith, H. W., assignor.)  
 Crompton & Knowles Loom Works. (See Wächtler, F. L., assignor.)  
 Crompton & Knowles Loom Works. (See Wattie, W., assignor.)  
 Crompton & Knowles Loom Works. (See Whitmore, F. A., assignor.)  
 Crompton & Knowles Loom Works. (See Whitmore and Dougherty, assignors.)  
 Crompton & Knowles Loom Works. (See Wyman, H., assignor.)  
 Crompton & Knowles Loom Works. (See Wyman and Cyr, assignors.)  
 Crompton, R., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Shuttle. No. 914,703; Mar. 9; Sp. p. 2213; Gaz. vol. 140; p. 372.  
 Crompton, R., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Automatic weft-replenishing loom. No. 935,645; Oct. 5; Sp. p. 35; Gaz. vol. 147; p. 8.  
 Crompton, R., and J. R. Fitton, Worcester, Mass., assignors to Crompton & Knowles Loom Works. Loom. No. 934,047; Sept. 14; Sp. p. 2186; Gaz. vol. 146; p. 362.  
 Cromwell, C., Longreach, Queensland, assignor to G. E. Bunning, Dalveen, Australia. Fence-dropper and wire-retaining means. No. 932,967; Aug. 31; Sp. p. 7024; Gaz. vol. 145; p. 1208.  
 Cromwell, J. C., and H. W. Lash, assignors to Garret-Cromwell Engineering Company, Cleveland, Ohio. Steel plant. No. 935,964; Oct. 5; Sp. p. 772; Gaz. vol. 147; p. 115.  
 Cromwell, T. V., St. Louis, Mo. Wire wall-pocket. No. 942,714; Dec. 7; Sp. p. 1409; Gaz. vol. 149; p. 231.  
 Cronan, L. W., et al. (See Larsen, L. B., assignor.)  
 Crone, S. A., East Orange, N. J. Railway brake-beam. No. 911,867; Feb. 9; Sp. p. 1642; Gaz. vol. 139; p. 305.  
 Croner, M., Longton, Kans. Mechanic's adjustable trestle. No. 926,320; June 29; Sp. p. 6780; Gaz. vol. 143; p. 1193.  
 Cronk, C. M. (See Snyder and Cronk.)  
 Cronk, W., Montour Falls, N. Y. Pliers. No. 942,549; Dec. 7; Sp. p. 1092; Gaz. vol. 149; p. 177.  
 Crook, C. M., Chicago, Ill. Ribbon-feed mechanism. No. 941,130; Nov. 23; Sp. p. 5931; Gaz. vol. 148; p. 998.  
 Crook, C. M., assignor to Perry Time Stamp Company, Chicago, Ill. Time-stamp. No. 920,113; May 4; Sp. p. 37; Gaz. vol. 142; p. 6.  
 Crook, G. L., assignor to Atlas Engine Works, trustee, Indianapolis, Ind. Internal-combustion engine. No. 931,389; Aug. 17; Sp. p. 3748; Gaz. vol. 145; p. 646.  
 Crook, G. L., assignor to Atlas Engine Works, trustee, Indianapolis, Ind. Valve. No. 933,698; Sept. 7; Sp. p. 1503; Gaz. vol. 146; p. 226.  
 Crook, W. E., Surry Hills, near Sydney, New South Wales, Australia. Hose-coupling. No. 921,368; May 11; Sp. p. 2634; Gaz. vol. 142; p. 453.  
 Crooke, A. (See Crooke, W. and A.)  
 Crooke, R. F., assignor to Bradley & Hubbard Mfg. Co., Meriden, Conn. Candlestick. No. 914,804; Mar. 9; Sp. p. 2415; Gaz. vol. 140; p. 406.  
 Crooke, W., Millom, and A. Crooke, Frodingham, England. Apparatus for charging blast-furnaces. No. 939,671; Nov. 9; Sp. p. 2711; Gaz. vol. 148; p. 447.  
 Crooker, E. R., et al. (See Parks, J. W., assignor.)  
 Crooker, E. R., Lauderdale, Miss. Clothes-pounder. No. 930,733; Aug. 10; Sp. p. 2282; Gaz. vol. 145; p. 396.  
 Crooker, F. D. (See Brooks and Crooker.)  
 Crooks, J., Philadelphia, Pa. Envelop-fastener. No. 910,912; Jan. 26; Sp. p. 5063; Gaz. vol. 138; p. 912.



*Alphabetical list of patentees—Continued.*

- Crooks, J., Philadelphia, Pa. Shoe-lace tip. No. 911,573; Feb. 9; Sp. p. 1073; Gaz. vol. 139; p. 210.  
 Crooks, J., Philadelphia, Pa. Rail-joint. No. 920,028; Apr. 27; Sp. p. 6550; Gaz. vol. 141; p. 1117.  
 Cropp, C. W., Seattle, Wash. Check-lock. No. 925,302; June 15; Sp. p. 4661; Gaz. vol. 143; p. 796.  
 Crosby, A. F., Towners, N. Y. Whiffletree-hook. No. 909,067; Jan. 5; Sp. p. 1301; Gaz. vol. 138; p. 208.  
 Crosby, E. B., Lockport, N. Y. Antiseptic attachment for telephone-transmitters. No. 923,950; June 8; Sp. p. 1874; Gaz. vol. 143; p. 313.  
 Crosby, E. W., Sheffield, Ala. Vehicle-body. No. 939,478; Nov. 9; Sp. p. 2296; Gaz. vol. 148; p. 380.  
 Crosby, G. F., Newton Highlands, Mass. Color-chart. No. 924,322; June 8; Sp. p. 2681; Gaz. vol. 143; p. 436.  
 Crosby, J. A., assignor to Selig Polyscope Company, Chicago, Ill. Moving-picture machine. No. 925,159; June 15; Sp. p. 4392; Gaz. vol. 143; p. 750.  
 Crosby, O., St. Paul, Minn. Pile-driver. No. 911,574; Feb. 9; Sp. p. 1074; Gaz. vol. 139; p. 210.  
 Crosby, O., St. Paul, Minn. Rope-clamp. No. 944,718; Dec. 28; Sp. p. 5796; Gaz. vol. 149; p. 1002.  
 Crosby, O. T., Nome, Alaska. Recovering values from alluvial deposits. No. 923,116; May 25; Sp. p. 6231; Gaz. vol. 142; p. 1080.  
 Crosby Steam Gage and Valve Company. (See Phillips, A. P., assignor.)  
 Crose, M. O. (See Murphy, R. E., assignor.)  
 Croshier, V. A., Chicago, Ill. Automatic cut-off. No. 921,953; May 18; Sp. p. 3839; Gaz. vol. 142; p. 672.  
 Croshier, V. A., Chicago, Ill. Street feeding device for horses. No. 924,435; June 8; Sp. p. 2889; Gaz. vol. 143; p. 473.  
 Crosier, H. H., West Brookfield, Mass. Attachment for fishing-rods. No. 911,117; Feb. 2; Sp. p. 182; Gaz. vol. 139; p. 34.  
 Crosier, J. H., Philadelphia, Pa. Dissolving-shutter for kinetoscopes. No. 919,324; Apr. 27; Sp. p. 5076; Gaz. vol. 141; p. 881.  
 Cross, B. B. (See Parks and Cross.)  
 Cross, C. F., and J. F. Briggs, London, England. Making a cellulose material. No. 920,828; May 4; Sp. p. 1487; Gaz. vol. 142; p. 240.  
 Cross, F. L., Mystic, Conn., assignor to Cross Paper Feeder Company. Registering mechanism. No. 912,544; Feb. 16; Sp. p. 3151; Gaz. vol. 139; p. 565.  
 Cross, J. B., Akron, Colo. Wagon-box corner-iron. No. 934,048; Sept. 14; Sp. p. 2190; Gaz. vol. 146; p. 362.  
 Cross, J. E. (See Daly, J. R., assignor.)  
 Cross, J. H., Philadelphia, Pa. Amusement-steps. No. 914,805; Mar. 9; Sp. p. 2416; Gaz. vol. 140; p. 406.  
 Cross, J. I., assignor of one-half to R. C. Ray, Jacksonville, Fla. Brick-press. No. 917,851; Apr. 13; Sp. p. 1783; Gaz. vol. 141; p. 327.  
 Cross, N. D., Silver Creek, N. Y. Woodworking-machine. No. 908,753; Jan. 5; Sp. p. 692; Gaz. vol. 138; p. 107.  
 Cross Paper Feeder Company. (See Cross, F. L., assignor.)  
 Cross, R. E., assignor to Franklin Moore Co., Winsted, Conn. Friction chain hoist. No. 916,111; Mar. 23; Sp. p. 5011; Gaz. vol. 140; p. 888.  
 Cross, T. W., Everett, Wash. Saw swaging and shaping device. No. 941,131; Nov. 23; Sp. p. 5934; Gaz. vol. 148; p. 998.  
 Crosser, W., Mount Morrison, Colo. Gate. No. 934,288; Sept. 14; Sp. p. 2667; Gaz. vol. 146; p. 443.  
 Crossland, G. J. (See Hodgen, J. R., assignor.)  
 Crossley, W., West Haven, Conn. Veterinary operating-table. No. 935,965; Oct. 5; Sp. p. 773; Gaz. vol. 147; p. 115.  
 Crossley, W. J., Openshaw, and T. Rigby, Fairfield, Manchester, England. Manufacture of producer-gas. No. 926,729; July 6; Sp. p. 18; Gaz. vol. 144; p. 6.  
 Crossley, W. J., and T. Rigby, Manchester, England. Apparatus for the manufacture of producer-gas. No. 943,182; Dec. 14; Sp. p. 2471; Gaz. vol. 149; p. 420.  
 Crosswell, J. C., Hillsboro, Ark. Lock. No. 937,286; Oct. 19; Sp. p. 3513; Gaz. vol. 147; p. 607.  
 Croston, E. V., Hazard, Nebr. Fan for cooling explosion-engines. No. 911,382; Feb. 2; Sp. p. 699; Gaz. vol. 139; p. 120.  
 Crowell, S. P., Medford, Mass. Door-stop. No. 934,392; Sept. 14; Sp. p. 2869; Gaz. vol. 146; p. 479.  
 Crotteau, E. (See Wendt, F. H., assignor.)  
 Crotty, J. J. (See Bernesser and Crotty.)  
 Crouch, F. J., Seattle, Wash. Folding bed. No. 929,289; July 27; Sp. p. 5376; Gaz. vol. 144; p. 947.  
 Crouch, F. J., assignor of two-thirds to J. A. Becker and H. D. Smith, Seattle, Wash. Fabric. No. 929,290; July 27; Sp. p. 5377; Gaz. vol. 144; p. 947.  
 Crouch & Fitzgerald. (See Leavy, J., assignor.)  
 Crouch, H. D., Montreal, Quebec, Canada, assignor to Western Electric Company, Chicago, Ill. Annunciator-case. No. 939,672; Nov. 9; Sp. p. 2712; Gaz. vol. 148; p. 448.  
 Crouch, J. L., De Kalb, Tex. Cattle-guard. No. 911,211; Feb. 2; Sp. p. 371; Gaz. vol. 139; p. 65.  
 Crouch, J. R., and N. H. Turbyfill, Asheville, N. C. Bread-slicer. No. 912,290; Feb. 16; Sp. p. 2612; Gaz. vol. 139; p. 480.  
 Crouch, J. W. (See Oliver, T., assignor.)  
 Crouch, M. L., Plymouth, Ill. Dish-washer. No. 937,926; Oct. 26; Sp. p. 4856; Gaz. vol. 147; p. 838.  
 Crouse, D. D., Gage, Okla. Window-pane fastener. No. 941,764; Nov. 30; Sp. p. 7302; Gaz. vol. 148; p. 1230.  
 Crouse, E. V. (See Crouse, H. M. and E. V.)  
 Crouse, F. L., Beloit, Wis., assignor of one-half to E. Wessell. Adjustable angle-chuck. No. 927,493; July 13; Sp. p. 1619; Gaz. vol. 144; p. 291.  
 Crouse, H. M. and E. V., Chicago, Ill. Index for time-tables. No. 934,658; Sept. 21; Sp. p. 3396; Gaz. vol. 146; p. 592.  
 Crouse-Hinds Company. (See Hinds, J. L., assignor.)  
 Crow, B., Findlay, Ohio. Trolley-wheel. No. 929,918; Aug. 3; Sp. p. 633; Gaz. vol. 145; p. 100.  
 Crow, G. A., El Dorado, Ark. Travis-wheel. No. 910,787; Jan. 26; Sp. p. 4827; Gaz. vol. 138; p. 873.  
 Crow, G. A., El Dorado, Ark. Whiffletree and trace connection. No. 910,788; Jan. 26; Sp. p. 4828; Gaz. vol. 138; p. 873.  
 Crow, J. W., assignor of one-half to W. T. Bradshaw and one-half to M. E. Crow, Oakland, Cal. Illuminated sign. No. 944,951; Dec. 28; Sp. p. 6278; Gaz. vol. 149; p. 1079.  
 Crow, M. E., et al. (See Crow, J. W., assignor.)  
 Crow, N. E., Nashville, Tenn. Combination mail-box lock and collection-indicator. No. 934,959; Sept. 21; Sp. p. 3987; Gaz. vol. 146; p. 692.  
 Crow, R. D., Henderson, Tex. Combined baling and compress machine. No. 924,223; June 8; Sp. p. 2478; Gaz. vol. 143; p. 402.  
 Crow, W. A., Cement, Okla. Cotton-chopper. No. 941,230; Nov. 23; Sp. p. 6151; Gaz. vol. 148; p. 1032.  
 Crowder, A. B. (See Henley and Crowder.)  
 Crowe, G. P., et al. (See Hahnke, R. C., assignor.)  
 Crowe, T., Hamilton, Ontario, Canada. Faucet, tap, valve, ball-cock, and the like. No. 918,288; Apr. 13; Sp. p. 2700; Gaz. vol. 141; p. 478.  
 Crowell, C. H., Swampscott, Mass. Gummed paper. No. 930,648; Aug. 10; Sp. p. 2110; Gaz. vol. 145; p. 368.  
 Crowell, E. (See Sholes, T. G., assignor.)  
 Crowell, J. W., Lexington, N. C. Spring bed-bottom. No. 914,246; Mar. 2; Sp. p. 1260; Gaz. vol. 140; p. 196.  
 Crowell, L. C. (See Timerman, E. J. C., assignor.)  
 Crowell, M. O. (See Rennie, E., assignor.)  
 Crowhurst, A. E., Humber Bay, Ontario, Canada. Hot-water heating system. No. 913,364; Feb. 23; Sp. p. 4829; Gaz. vol. 139; p. 865.  
 Crowle, J. E., Ballarat, Victoria, Australia. Lifting-jack. No. 936,309; Oct. 12; Sp. p. 1459; Gaz. vol. 147; p. 252.  
 Crowley, J. H., Duluth, Minn. Tie-bar for railway-rails. No. 914,806; Mar. 9; Sp. p. 2417; Gaz. vol. 140; p. 406.  
 Crowley, W. J., Newburyport, Mass. Cigar cutter and lighter. No. 914,928; Mar. 9; Sp. p. 2653; Gaz. vol. 140; p. 445.  
 Crown Cork Company. (See Moore, E. K., assignor.)  
 Crown Cork and Seal Company. (See Gillette, G. H., assignor.)  
 Crown, D. H. (See Collins, W. J., assignor.)  
 Crown Manufacturing Company. (See Yaeger, M., assignor.)  
 Crowson, J. C., Pensacola, Fla. Nut-lock. No. 921,805; May 18; Sp. p. 3524; Gaz. vol. 142; p. 625.  
 Crowson, J. C., Pensacola, Fla. Rail-clamp. No. 922,394; May 18; Sp. p. 4718; Gaz. vol. 142; p. 817.  
 Crowson, J. C., Pensacola, Fla. Rail-clamp. No. 938,218; Oct. 26; Sp. p. 5487; Gaz. vol. 147; p. 938.  
 Croxton, D. T., Cleveland, Ohio. Apparatus for handling slag. No. 932,765; Aug. 31; Sp. p. 6648; Gaz. vol. 145; p. 1143.  
 Croxton, D. T., Cleveland, Ohio. Slag-handling table. No. 934,998; Sept. 28; Sp. p. 4079; Gaz. vol. 146; p. 731.  
 Crozier, C., and W. J. Dyer, assignors to Honolulu Iron Works Company, Honolulu, Hawaii. Stirrer for crystallizers. No. 936,608; Oct. 12; Sp. p. 2131; Gaz. vol. 147; p. 353.  
 Crozier, E. M., Augusta, Ga. Combined bearing and lubricator. No. 935,465; Sept. 28; Sp. p. 4998; Gaz. vol. 146; p. 833.  
 Crozier, J. M., Minneapolis, Minn. Boiler-flue. No. 927,329; July 6; Sp. p. 1267; Gaz. vol. 144; p. 209.  
 Crude, H. J., Montreal, Quebec, assignor of one-half to F. P. Gutelius, Montreal, Canada. Kinetograph. No. 912,365; Feb. 16; Sp. p. 2769; Gaz. vol. 139; p. 504.  
 Cruff, J. F., Cranston, R. I. Combined abdominal supporter and truss. No. 922,859; May 25; Sp. p. 5692; Gaz. vol. 142; p. 997.  
 Cruickshank, A. B., London, England. Heat-distributor for cooking utensils. No. 928,634; July 20; Sp. p. 4024; Gaz. vol. 144; p. 701.  
 Cruickshank, W. P., Bonnington, Edinburgh, Scotland. Chute for mills, granaries, warehouses, and the like. No. 921,595; May 11; Sp. p. 3062; Gaz. vol. 142; p. 526.  
 Cruickshank, E. W., Baltimore, Md. Mat. No. 933,889; Sept. 14; Sp. p. 1885; Gaz. vol. 146; p. 312.  
 Cruickshank, J. W., Oakmont, Pa. Glass-drawing apparatus. No. 914,117; Mar. 2; Sp. p. 988; Gaz. vol. 140; p. 157.  
 Crull, A., Andrews, Ind. Rotary engine. No. 919,698; Apr. 27; Sp. p. 5878; Gaz. vol. 141; p. 1009.

*Alphabetical list of patentees—Continued.*

- Crum, J. A. (See Wyman, W. F., assignor.)
- Crum, M., Little Rock, Ark. Step-ladder. No. 920,547; May 4; Sp. p. 922; Gaz. vol. 142; p. 149.
- Crum, W. H., Houston, Tex. Molding appliance. No. 930,844; Aug. 10; Sp. p. 2502; Gaz. vol. 145; p. 433.
- Crumb, F. K., Niobe, N. Y. Stool. No. 938,219; Oct. 26; Sp. p. 5490; Gaz. vol. 147; p. 938.
- Crumb, W. B., Forestville, Conn. Cattle-stanchion. No. 909,760; Jan. 12; Sp. p. 2674; Gaz. vol. 138; p. 472.
- Crumière, E., Paris, France. Production of cellulose solutions. No. 908,754; Jan. 5; Sp. p. 693; Gaz. vol. 138; p. 107.
- Crumière, E., Paris, France. Manufacture of artificial horsehair and other cellulose products having resistance and elasticity. No. 911,868; Feb. 9; Sp. p. 1644; Gaz. vol. 139; p. 305.
- Crumm, C. E., Anutt, Mo. Automatic vehicle-brake. No. 941,063; Nov. 23; Sp. p. 5778; Gaz. vol. 148; p. 975.
- Crump, F. H., Los Angeles, Cal. Posting-post. No. 923,775; June 1; Sp. p. 1477; Gaz. vol. 143; p. 226.
- Crump, F. H., Los Angeles, Cal. Way-bill. No. 925,871; June 22; Sp. p. 5845; Gaz. vol. 143; p. 1010.
- Crump, F. H., Los Angeles, Cal. Extension-bolt. No. 937,577; Oct. 19; Sp. p. 4137; Gaz. vol. 147; p. 704.
- Crump, F. H., Los Angeles, Cal. Reinforcement for book-leaves. No. 938,370; Oct. 26; Sp. p. 5824; Gaz. vol. 147; p. 988.
- Crump, F. H., Los Angeles, Cal. Loose-leaf-binder post. No. 944,179; Dec. 21; Sp. p. 4607; Gaz. vol. 149; p. 790.
- Crump, W. M., Fries, Va. Cotton and peanut planter. No. 932,001; Aug. 24; Sp. p. 5059; Gaz. vol. 145; p. 865.
- Crumpton, W. B., Montgomery, Ala. Calendar for collection purposes. No. 944,952; Dec. 28; Sp. p. 6279; Gaz. vol. 149; p. 1079.
- Cruse, A. H., assignor to R. Hoe, New York, N. Y. Machine for casting printing-plates. No. 932,602; Aug. 31; Sp. p. 6293; Gaz. vol. 145; p. 1088.
- Cruse, J. J., Houston, Tex. Mail-bag catching and delivering device. No. 928,502; July 20; Sp. p. 3735; Gaz. vol. 144; p. 657.
- Cruse, J. S., *et al.* (See Bretney, H. R., assignor.)
- Cruse, S. D. (See Shindlebower, G. W. and P., assignors.)
- Cruseo, G. (See Friel and Cruseo.)
- Crutchfield, C. H., assignor of one-half to A. W. Deshong, New Boston, Tex. Incandescent lamp. No. 944,667; Dec. 28; Sp. p. 5678; Gaz. vol. 149; p. 985.
- Crutchfield, F. C., Washington, D. C. Fire-alarm signaling device. No. 910,118; Jan. 19; Sp. p. 3383; Gaz. vol. 138; p. 622.
- Crutchley, H., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 923,951; June 8; Sp. p. 1875; Gaz. vol. 143; p. 313.
- Crutchley, H., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 929,080; July 27; Sp. p. 4919; Gaz. vol. 144; p. 877.
- Crutchley, H., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 929,835; Aug. 3; Sp. p. 438; Gaz. vol. 145; p. 72.
- Crutchley, H., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 942,776; Dec. 7; Sp. p. 1540; Gaz. vol. 149; p. 252.
- Cruver, C. L., Chicago, Ill. Hat-mirror. No. 943,005; Dec. 14; Sp. p. 2100; Gaz. vol. 149; p. 361.
- Cruyff, C. J., Amsterdam, Netherlands. Revolving door. No. 941,699; Nov. 30; Sp. p. 7150; Gaz. vol. 148; p. 1207.
- Cruze, F., New Haven, Conn. Pliers. No. 917,417; Apr. 6; Sp. p. 921; Gaz. vol. 141; p. 160.
- Cryderman, G. (See Howard, J. F., assignor.)
- Cryer, A. A., New York, N. Y. Valve device. No. 929,398; July 27; Sp. p. 5611; Gaz. vol. 144; p. 984.
- Crypto Patents Limited. (See Salomon, F., assignor.)
- Crysler, G., Chicago, Ill. Smoke-consuming furnace. No. 921,087; May 11; Sp. p. 2028; Gaz. vol. 142; p. 357.
- Crystallized Milk Co. (See Roeh, J., assignor.)
- Csiky, Z. B., *et al.* (See Tamassy, Z., assignor.)
- Csupák, A. (See Kovacs and Csupák.)
- Cuthy, S., Cleveland, Ohio. Invalid-bed. No. 920,922; May 11; Sp. p. 1700; Gaz. vol. 142; p. 302.
- Cubbison, W. W. (See Lyda, Cubbison, and Robinson.)
- Cubine, B. T. (See Ulrich and Cubine.)
- Cubitt, A. S., Schenectady, N. Y., assignor to General Electric Company. Relay. No. 923,247; June 1; Sp. p. 263; Gaz. vol. 143; p. 44.
- Cubitt, A. S., Schenectady, N. Y., assignor to General Electric Company. Electromagnetically-controlled switch. No. 925,160; June 15; Sp. p. 4395; Gaz. vol. 143; p. 750.
- Cubitt, A. S., Schenectady, N. Y., assignor to General Electric Company. Control of electrically-operated switches. No. 941,408; Nov. 30; Sp. p. 6556; Gaz. vol. 148; p. 1112.
- Cudahy, F. P., Jefferson, Iowa. End-gate fastener. No. 917,258; Apr. 6; Sp. p. 619; Gaz. vol. 141; p. 105.
- Cudahy Packing Co. (See Bergquist, J., assignor.)
- Cudahy Packing Co. (See Nicklin and Bergquist, assignors.)
- Cuddeback, N. H., Los Angeles, Cal. Sunbonnet. No. 932,968; Aug. 31; Sp. p. 7027; Gaz. vol. 145; p. 1208.
- Cuddehly, R. S., assignor of one-half to J. J. Lake, St. Paul, Minn. Ventilator. No. 919,284; Apr. 20; Sp. p. 4973; Gaz. vol. 141; p. 833.
- Cudell, F. E., Cleveland, Ohio. Sewer-gas trap. No. 909,871; Jan. 19; Sp. p. 2902; Gaz. vol. 138; p. 540.
- Cudworth, H. N. (See Norton, Spence, and Cudworth.)
- Cuff, W. H., Braintree, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Jack for nailing and slugging machines. No. 919,424; Apr. 27; Sp. p. 5290; Gaz. vol. 141; p. 915.
- Cuinat, E. P., Unieux, France. Solidifying process for ingots. No. 909,556; Jan. 12; Sp. p. 2267; Gaz. vol. 138; p. 402.
- Culbertson, G. A., Chicago, Ill. Clothes-line support. No. 939,811; Nov. 9; Sp. p. 3008; Gaz. vol. 148; p. 495.
- Culbertson, G. W. R., Little, assignor to C. Welton, Winslow, Ind. Powder-container and measuring-can. No. 915,560; Mar. 16; Sp. p. 3934; Gaz. vol. 140; p. 679.
- Culbertson, G. W. R., Glezen, assignor of one-fourth to C. C. Wilson, one-fourth to E. P. Blan, and one-fourth to J. Culbertson, Monroe City, Ind. Road-bed. No. 918,289; Apr. 13; Sp. p. 2701; Gaz. vol. 141; p. 478.
- Culbertson, J., *et al.* (See Culbertson, G. W. R., assignor.)
- Culbertson, J. A. (See Harbin, C., assignor.)
- Culbertson, J. W. (See Darling and Culbertson.)
- Culbertson, S. F. (See Williams, H. G., assignor.)
- Cullen, M., Hartford, Conn. Garbage-receptacle. No. 937,772; Oct. 26; Sp. p. 4539; Gaz. vol. 147; p. 786.
- Cullen, T. B., Woolston, England. Chimney-pot. No. 909,159; Jan. 12; Sp. p. 1506; Gaz. vol. 138; p. 273.
- Culler, J., Denver, Colo. Quilting-frame. No. 937,578; Oct. 19; Sp. p. 4139; Gaz. vol. 147; p. 705.
- Culley, J. W. (See Thornton, W. H., assignor.)
- Culley, L. D. (See Wilson and Culley.)
- Culliney, J. V., assignor to American Iron and Steel Manufacturing Company, Lebanon, Pa. Nutting-machine. No. 914,807; Mar. 9; Sp. p. 2418; Gaz. vol. 140; p. 406.
- Cullison, C. T., Worthington, Ind. Vehicle-axle. No. 933,293; Sept. 7; Sp. p. 596; Gaz. vol. 146; p. 92.
- Culmer, J. W., Cleveland, Ohio. Scale-pendulum. No. 910,646; Jan. 26; Sp. p. 4555; Gaz. vol. 138; p. 829.
- Culmore, M., Houston, Tex. Inner tube for pneumatic tires. No. 919,135; Apr. 20; Sp. p. 4496; Gaz. vol. 141; p. 785.
- Culp, C. M., South Bend, Ind. Railway-rail bed. No. 926,547; June 29; Sp. p. 7178; Gaz. vol. 143; p. 1268.
- Culver, A. B., Aguascalientes, Mexico. Circuit-closer. No. 911,943; Feb. 9; Sp. p. 1793; Gaz. vol. 139; p. 330.
- Culver, B. B., St. Louis, Mo. Cooking stove and range top. No. 941,064; Nov. 23; Sp. p. 5779; Gaz. vol. 148; p. 975.
- Culver, C. B., and J. A. Heckard, Seaside, Ore. Turbine. No. 909,369; Jan. 12; Sp. p. 1901; Gaz. vol. 138; p. 340.
- Culver, C. R., Springfield, Mass. Flying-machine. No. 922,264; May 18; Sp. p. 4469; Gaz. vol. 142; p. 776.
- Culver, E. C., Boone, Iowa. Rail-tie. No. 908,965; Jan. 5; Sp. p. 1084; Gaz. vol. 138; p. 175.
- Culver, F. S., Taunton, Mass. Thread-breaking attachment for doubling and twisting machines. No. 917,013; Apr. 6; Sp. p. 99; Gaz. vol. 141; p. 21.
- Culver, G. A., Clarinda, Iowa. Lawn-mower. No. 911,559; Feb. 2; Sp. p. 1027; Gaz. vol. 139; p. 17.
- Culver, L. R., Salt Lake City, Utah. Speed-adjuster. No. 922,674; May 25; Sp. p. 5305; Gaz. vol. 142; p. 938.
- Culver, W. B., Carbondale, Pa. Valve. No. 922,265; May 13; Sp. p. 4470; Gaz. vol. 142; p. 776.
- Culverhouse, T. R., assignor of one-half to J. W. Cottrell, Republic, Ala. Trap. No. 916,677; Mar. 30; Sp. p. 6135; Gaz. vol. 140; p. 1099.
- Cumberland, P. E. G., St. Kilda, Victoria, Australia. Preventing corrosion of metals immersed in liquids. No. 921,641; May 11; Sp. p. 3187; Gaz. vol. 142; p. 543.
- Cumfer, H. A., assignor of one-half to F. A. Mitchell, Chicago, Ill. Friction-clutch. No. 942,056; Dec. 7; Sp. p. 29; Gaz. vol. 149; p. 7.
- Cuming, M. A., New York, N. Y. Carving-machine. No. 908,844; Jan. 5; Sp. p. 853; Gaz. vol. 138; p. 135.
- Cumiskey, J. W., Youngstown, Ohio. Mixing-drum. No. 928,850; July 20; Sp. p. 4435; Gaz. vol. 144; p. 773.
- Cumner, W. M., Cleveland, Ohio. Mechanical drier. No. 934,712; Sept. 21; Sp. p. 3498; Gaz. vol. 146; p. 609.
- Cumming, W. O., Macon, Ga. Baling-press. No. 909,761; Jan. 12; Sp. p. 2676; Gaz. vol. 138; p. 472.
- Cummings, A. (See Noreau, G., assignor.)
- Cummings, A. (See Weingarden and Cummings.)



*Alphabetical list of patentees—Continued.*

- Cummings, A. G., Upper Paxton township, Dauphin county, Pa. Land and water boat. No. 919,829; Apr. 27; Sp. p. 6170; Gaz. vol. 141; p. 1053.
- Cummings, B. E., Ridgefield Park, N. J. Draft-ventilator. No. 931,183; Aug. 17; Sp. p. 3292; Gaz. vol. 145; p. 573.
- Cummings, E. A., Butler, Pa. Display-rack. No. 920,829; May 4; Sp. p. 1489; Gaz. vol. 142; p. 241.
- Cummings, F., Waterloo, Iowa. Fence-wire-releasing device. No. 923,494; June 1; Sp. p. 845; Gaz. vol. 143; p. 129.
- Cummings, F. L., Waterloo, Iowa. Fence-wire-releasing device. No. 934,999; Sept. 28; Sp. p. 4081; Gaz. vol. 146; p. 731.
- Cummings, G. C., Western Springs, Ill. Telephony. No. 933,890; Sept. 14; Sp. p. 1887; Gaz. vol. 146; p. 312.
- Cummings, H. H. (See Marston and Cummings.)
- Cummings, H. H., Malden, Mass., assignor to Sub-Target Gun Company, Saco, Me. Target-practice apparatus. No. 920,029; Apr. 27; Sp. p. 6551; Gaz. vol. 141; p. 1117.
- Cummings, H. H., Malden, assignor to Sub-Target Gun Company, Boston, Mass. Target-practice apparatus. No. 936,418; Oct. 12; Sp. p. 1714; Gaz. vol. 147; p. 289.
- Cummings, H. H., Malden, assignor to Sub-Target Gun Company, Boston, Mass. Target-practice apparatus. No. 936,419; Oct. 12; Sp. p. 1723; Gaz. vol. 147; p. 289.
- Cummings, H. H., Malden, Mass., assignor to Sub-Target Gun Company, Saco, Me. Coin-controlled target-practice apparatus. No. 941,360; Nov. 30; Sp. p. 6424; Gaz. vol. 148; p. 1095.
- Cummings, H. H., Newton, assignor to Samuel E. Jordan Brush Company, Malden, Mass. Machine for bunching bristles. No. 927,832; July 13; Sp. p. 2345; Gaz. vol. 144; p. 404.
- Cummings, H. H., Newton, assignor to Sub-Target Gun Company, Boston, Mass. Target-practice apparatus. No. 942,615; Dec. 7; Sp. p. 1217; Gaz. vol. 149; p. 199.
- Cummings, J., New York, N. Y. Bridle-bit. No. 909,160; Jan. 12; Sp. p. 1507; Gaz. vol. 138; p. 273.
- Cummings, J., and J. D. Leen, Bangor, Me. Harness attachment. No. 915,076; Mar. 16; Sp. p. 2914; Gaz. vol. 140; p. 519.
- Cummings, J. F., Providence, R. I. Friction-brake. No. 925,303; June 15; Sp. p. 4662; Gaz. vol. 143; p. 796.
- Cummings, J. F., Providence, R. I. Brake. No. 925,304; June 15; Sp. p. 4663; Gaz. vol. 143; p. 796.
- Cummings, J. F., Providence, R. I. Cover for brakes. No. 935,466; Sept. 28; Sp. p. 4999; Gaz. vol. 146; p. 883.
- Cummings, L. E., Pittsburg, Pa. Heel-cushion for shoes. No. 922,094; May 18; Sp. p. 4121; Gaz. vol. 142; p. 720.
- Cummings, M. W., and J. F. Jordan, Olyphant, Pa. Card-case or pocket-book. No. 939,673; Nov. 9; Sp. p. 2713; Gaz. vol. 148; p. 448.
- Cummings, R. A. (See McMullin, F. V., assignor.)
- Cummings, R. A., Beaver, Pa. Protector for piles. No. 917,259; Apr. 6; Sp. p. 620; Gaz. vol. 141; p. 105.
- Cummins, B. V. (See Leake, B. G., assignor.)
- Cummins, C. R., Philadelphia, Pa., assignor to W. B. Hodge, Charlotte, N. C. Apparatus for generating and administering gases for general anesthesia. No. 912,251; Feb. 9; Sp. p. 2438; Gaz. vol. 139; p. 421.
- Cummins, J. A., assignor to Turner Day & Woolworth Handle Co. Inc., Louisville, Ky. Variable feed for ax-handle lathes. No. 910,507; Jan. 26; Sp. p. 4260; Gaz. vol. 138; p. 782.
- Cummins, M., Manchester, England. Fire glazing or finishing of glass articles. No. 916,959; Mar. 30; Sp. p. 6670; Gaz. vol. 140; p. 1188.
- Cummiskey, W. M. (See Gurney and Cummiskey.)
- Cummiskey, W. M., Honesdale, Pa., assignor to H. F. Gurney, New York, N. Y. Electric elevator. No. 909,872; Jan. 19; Sp. p. 2902; Gaz. vol. 138; p. 540.
- Cumms, F. F., deceased; M. Cumms, executrix, Chicago, Ill. Leather-edging tool. No. 940,857; Nov. 23; Sp. p. 5349; Gaz. vol. 148; p. 907.
- Cumms, M., executrix. (See Cumms, F. F.)
- Cumner, M. S. (See Geissenhainer and Cumner.)
- Cumner, M. S., and W. Ostrander, assignors to Nestor Manufacturing Company, New York, N. Y. Machine-tool holder. No. 910,647; Jan. 26; Sp. p. 4556; Gaz. vol. 138; p. 829.
- Cumpston, F. B., Blooming Grove, Tex. Automatic cotton press and feeder. No. 917,754; Apr. 13; Sp. p. 1571; Gaz. vol. 141; p. 296.
- Cunneen, J. F., Chicago, Ill. Furnace traveling grate. No. 916,112; Mar. 23; Sp. p. 5015; Gaz. vol. 140; p. 888.
- Cuniff, E. A. (See Ford and Cuniff.)
- Cuniff, E., A. Coderre, and O. Benson, New Bedford, assignors to Draper Company, Hopedale, Mass. Tip-support for automatic filling-replenishing looms. No. 915,161; Mar. 16; Sp. p. 3126; Gaz. vol. 140; p. 548.
- Cuniff, J. V., Fall River, assignor to Draper Company, Hopedale, Mass. Rotatable spindle. No. 920,830; May 4; Sp. p. 1490; Gaz. vol. 142; p. 241.
- Cuniff, J. V., Fall River, assignor to W. F. Draper, Hopedale, Mass. Spinning-spindle. No. 942,777; Dec. 7; Sp. p. 1542; Gaz. vol. 149; p. 253.
- Cuniff, J. V., and C. Rafferty, Fall River, Mass. Loom-shuttle. No. 939,892; Nov. 9; Sp. p. 3169; Gaz. vol. 148; p. 523.
- Cunning, H., assignor of one-half to J. E. McCready, New Castle, Pa. Pump. No. 930,940; Aug. 10; Sp. p. 2715; Gaz. vol. 145; p. 464.
- Cunning, H. F., Roanoke, Va. Check-valve. No. 937,773; Oct. 26; Sp. p. 4551; Gaz. vol. 147; p. 787.
- Cunning, H. F., Roanoke, Va. Pressure-regulating valve. No. 937,774; Oct. 26; Sp. p. 4542; Gaz. vol. 147; p. 787.
- Cunningham, A. C., Norfolk, Va. Steel car-axle and making the same. No. 938,827; Nov. 2; Sp. p. 812; Gaz. vol. 148; p. 130.
- Cunningham, A. V., Sr., Zelenople, Pa. Tug and trace fastener. No. 910,359; Jan. 19; Sp. p. 3939; Gaz. vol. 138; p. 709.
- Cunningham, C. V., assignor to Cunningham Kaleidoscope Top Co., Springfield, Mo. Mechanical demonstrator for color-changing tops. No. 917,260; Apr. 6; Sp. p. 621; Gaz. vol. 141; p. 106.
- Cunningham, D. W., Des Moines, Iowa. Water-heater. No. 927,494; July 13; Sp. p. 1621; Gaz. vol. 144; p. 291.
- Cunningham, E. A., Ambridge, Pa. Treating photographic paper. No. 917,418; Apr. 6; Sp. p. 922; Gaz. vol. 141; p. 160.
- Cunningham, E. A., assignor of one-half to A. Davis, Oskaloosa, Iowa. Drill and cutting-machine. No. 929,399; July 27; Sp. p. 5614; Gaz. vol. 144; p. 984.
- Cunningham, F. R., Medford, Mass., assignor to Kendrick & Davis, Lebanon, N. H. Multiple tool. No. 910,789; Jan. 26; Sp. p. 4830; Gaz. vol. 138; p. 873.
- Cunningham, F. R., Medford, Mass., assignor to Kendrick & Davis, Lebanon, N. H. Apparatus for adjusting balance-wheels. No. 922,095; May 18; Sp. p. 4122; Gaz. vol. 142; p. 720.
- Cunningham, F. R., Medford, Mass., assignor to Kendrick & Davis, Lebanon, N. H. Watch-hand remover. No. 922,096; May 18; Sp. p. 4124; Gaz. vol. 142; p. 720.
- Cunningham, F. R., Medford, Mass., assignor to Kendrick & Davis, Lebanon, N. H. Staking-tool. No. 923,495; June 1; Sp. p. 846; Gaz. vol. 143; p. 129.
- Cunningham, H. L., Springfield, Mo. Cooking and canning tank. No. 923,339; June 1; Sp. p. 529; Gaz. vol. 143; p. 76.
- Cunningham, J., et al. (See Jackson, J. E., assignor.)
- Cunningham, J., Dayton, Ohio. Gravity speed-governor for elevator safety mechanisms. No. 943,523; Dec. 14; Sp. p. 3198; Gaz. vol. 149; p. 538.
- Cunningham, J., Dayton, Ohio. Safety-gate mechanism for elevators. No. 943,524; Dec. 14; Sp. p. 3200; Gaz. vol. 149; p. 538.
- Cunningham, J. A., Caruthersville, Mo. Clothing-case. No. 925,872; June 22; Sp. p. 5847; Gaz. vol. 143; p. 1011.
- Cunningham, J. D. (See Beach and Cunningham.)
- Cunningham, J. H., Syracuse, N. Y. Oarsmen's apparatus. No. 927,833; July 13; Sp. p. 2349; Gaz. vol. 144; p. 404.
- Cunningham, J. M., Bethany, Ill. Rail-joint. No. 927,330; July 6; Sp. p. 1269; Gaz. vol. 144; p. 209.
- Cunningham, J. W., et al. (See Krutsch, W. W., assignor.)
- Cunningham Kaleidoscope Top Co. (See Cunningham, C. V., assignor.)
- Cunningham, M. J., Springfield, Mo. Lathe. No. 944,480; Dec. 28; Sp. p. 5254; Gaz. vol. 149; p. 920.
- Cunningham, R. B., Chicago, Ill. Switch-signal. No. 920,030; Apr. 27; Sp. p. 6558; Gaz. vol. 141; p. 1118.
- Cunningham, T., Wenham, Mass. Nautical-clock register. No. 931,278; Aug. 17; Sp. p. 3506; Gaz. vol. 145; p. 607.
- Cunningham, W. J., Philadelphia, Pa. Machine for capping bottles. No. 934,794; Sept. 21; Sp. p. 3661; Gaz. vol. 146; p. 636.
- Cunningham, W. R., assignor to American Clay Machinery Company, Bucyrus, Ohio. Off-bearing attachment for brick-presses. No. 927,834; July 13; Sp. p. 2352; Gaz. vol. 144; p. 405.
- Cunningham, W. R., assignor to American Clay Machinery Co., Bucyrus, Ohio. Conveying system. No. 928,183; July 13; Sp. p. 3060; Gaz. vol. 144; p. 621.
- Cunningham, W. R., assignor to American Clay Machinery Co., Bucyrus, Ohio. Grinding-mill. No. 931,279; Aug. 17; Sp. p. 3508; Gaz. vol. 145; p. 607.
- Cunningham, W. R., assignor to American Clay Machinery Co., Bucyrus, Ohio. Centrifugal screen. No. 931,280; Aug. 17; Sp. p. 3511; Gaz. vol. 145; p. 608.
- Cunnius, A. R., Brooklyn, N. Y. Sound-augmenting horn. No. 921,676; May 18; Sp. p. 3278; Gaz. vol. 142; p. 583.
- Cuno, C., assignor to Connecticut Auto Engineering Corporation, Meriden, Conn. Electric-circuit controller for internal-combustion engines. No. 910,913; Jan. 26; Sp. p. 5065; Gaz. vol. 138; p. 912.
- Cuno, C., assignor to Connecticut Auto Engineering Corporation, Meriden, Conn. Terminal connector. No. 916,390; Mar. 23; Sp. p. 5521; Gaz. vol. 140; p. 980.

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- Cuno, C., assignor to Connecticut Auto Engineering Corporation, Meriden, Conn. Terminal-connector construction. No. 937,052; Oct. 19; Sp. p. 3017; Gaz. vol. 147; p. 530.
- Cuntz, J. H., Hoboken, N. J. Electric log. No. 912,291; Feb. 16; Sp. p. 2613; Gaz. vol. 139; p. 480.
- Cuntz, J. H., Hoboken, N. J. Wireless telegraphy. No. 927,641; July 13; Sp. p. 1947; Gaz. vol. 144; p. 341.
- Cuny, E. G. and G. H., Chicago, Ill. Sign-exhibitor and display-rack. No. 925,757; June 22; Sp. p. 5601; Gaz. vol. 143; p. 972.
- Cuny, G. H. (See Cuny, E. G. and G. H.)
- Cupelli, F., Point Marion, Pa. Safety-razor. No. 941,231; Nov. 23; Sp. p. 6153; Gaz. vol. 148; p. 1032.
- Cuppet, O. T., Clifton Mills, W. Va. Hoe. No. 937,927; Oct. 26; Sp. p. 4558; Gaz. vol. 147; p. 839.
- Cupstid, T. J., Swansea, S. C. Hub-fastener. No. 938,220; Oct. 26; Sp. p. 5491; Gaz. vol. 147; p. 938.
- Curcio, L., Philadelphia, Pa. Device for fitting and turning ladies' skirts and coats. No. 910,508; Jan. 26; Sp. p. 4261; Gaz. vol. 138; p. 782.
- Curfew, C. H., and C. H. Carpenter, Providence, R. I. Bobbin-holder. No. 924,891; June 15; Sp. p. 3865; Gaz. vol. 143; p. 659.
- Curlett, W., San Francisco, Cal. Key-fastener. No. 927,835; July 13; Sp. p. 2364; Gaz. vol. 144; p. 405.
- Curlett, W., San Francisco, Cal. Door-lock. No. 933,630; Sept. 7; Sp. p. 1364; Gaz. vol. 146; p. 203.
- Curran, E. J., Sydney, New South Wales, Australia, assignor of one-half to D. H. Ackerman, New York, N. Y. Apparatus for drafting garment-patterns. No. 943,770; Dec. 21; Sp. p. 3742; Gaz. vol. 149; p. 651.
- Curran, H. F. (See Crandall, C., assignor.)
- Curran, J. L., Syracuse, N. Y. System of heating storage-water. No. 923,025; May 25; Sp. p. 6031; Gaz. vol. 142; p. 1050.
- Curran, M., assignor to Perfection Manufacturing Company, Portland, Me. Dish-washing machine. No. 936,237; Oct. 5; Sp. p. 1311; Gaz. vol. 147; p. 201.
- Curran, P., Brooklyn, N. Y. Clothes-line holder. No. 936,420; Oct. 12; Sp. p. 1729; Gaz. vol. 147; p. 290.
- Current, C. R., Danville, Ill. Collar attachment. No. 911,295; Feb. 2; Sp. p. 542; Gaz. vol. 139; p. 92.
- Currey, C. F., assignor to Kansas Voting Machine Company, Topeka, Kans. Voting-machine construction. No. 938,643; Nov. 2; Sp. p. 437; Gaz. vol. 148; p. 67.
- Currey, C. F., assignor to Kansas Voting Machine Company, Topeka, Kans. Counter construction for voting-machines. No. 939,674; Nov. 9; Sp. p. 2715; Gaz. vol. 148; p. 448.
- Currie, J. W., Minneapolis, Minn. Feed-water heater. No. 934,393; Sept. 14; Sp. p. 2871; Gaz. vol. 146; p. 479.
- Currier, C. R., and J. Leitschuh, assignors to Federal Manufacturing Company, Columbus, Ohio. Collar dampening and burnishing machine. No. 909,557; Jan. 12; Sp. p. 2270; Gaz. vol. 138; p. 403.
- Currier, G. O. (See Estabrook and Currier.)
- Curry, C. A., assignor of one-half to G. Freeman, Brooklyn, N. Y. Bilge-water discharger. No. 933,891; Sept. 14; Sp. p. 1892; Gaz. vol. 146; p. 312.
- Curry, F. H., Arlington Heights, and L. R. Coppage, assignors to A. E. Martell Company, Boston, Mass. Temporary binder. No. 943,006; Dec. 14; Sp. p. 2100; Gaz. vol. 149; p. 361.
- Curry, G. W., Brooklyn, assignor to Good Manufacturing Company, New York, N. Y. Pipe-coupling. No. 938,984; Nov. 2; Sp. p. 1156; Gaz. vol. 148; p. 184.
- Curry, J. P., New York, N. Y. Tool for twisting wire ties. No. 908,649; Jan. 5; Sp. p. 473; Gaz. vol. 138; p. 74.
- Curry, T. P., Danville, Ky. Capsule-filling machine. No. 915,561; Mar. 16; Sp. p. 3935; Gaz. vol. 140; p. 679.
- Curry, W. J., Victoria, British Columbia, Canada. Portable camp-chair. No. 926,472; June 29; Sp. p. 7049; Gaz. vol. 143; p. 1243.
- Curtain Supply Company. (See Hopkins, C. L., assignor.)
- Curtain Supply Company. (See Houghtaling, P. A., assignor.)
- Curtain Supply Company. (See Keeler, H. E., assignor.)
- Curtin, D., Villanova, Pa. Lift-strap for recumbent patients. No. 908,845; Jan. 5; Sp. p. 861; Gaz. vol. 138; p. 135.
- Curtin, D. F., St. Louis, Mo. Butter measurer and cutter. No. 924,642; June 15; Sp. p. 3336; Gaz. vol. 143; p. 575.
- Curtin, F., Gloversville, N. Y. Emery-wheel dresser. No. 930,535; Aug. 10; Sp. p. 1882; Gaz. vol. 145; p. 332.
- Curtin, M., Brooklyn, N. Y. Compound for cleaning, polishing, and plating metal. No. 912,031; Feb. 9; Sp. p. 2170; Gaz. vol. 139; p. 376.
- Curtis, A. J., East Williamson, N. Y. Fruit-slicer. No. 922,266; May 18; Sp. p. 4472; Gaz. vol. 142; p. 776.
- Curtis, C. G., New York, N. Y., assignor, by mesne assignments, to General Electric Company. Slotting-machine. No. 911,944; Feb. 9; Sp. p. 1794; Gaz. vol. 139; p. 330.
- Curtis, C. G., New York, N. Y., assignor, by mesne assignments, to General Electric Company. Elastic-fluid turbine. No. 917,419; Apr. 6; Sp. p. 923; Gaz. vol. 141; p. 160.
- Curtis, C. G., New York, N. Y., assignor, by mesne assignments, to General Electric Company. Elastic-fluid turbine. No. 920,438; May 4; Sp. p. 707; Gaz. vol. 142; p. 112.
- Curtis, C. G., New York, N. Y., assignor, by mesne assignments, to General Electric Company. Elastic-fluid turbine. No. 923,146; June 1; Sp. p. 49; Gaz. vol. 143; p. 9.
- Curtis, C. G., New York, N. Y., assignor, by mesne assignments, to General Electric Company. Elastic-fluid turbine. No. 928,109; July 13; Sp. p. 2900; Gaz. vol. 144; p. 495.
- Curtis, C. L., New York, assignor to C. Ewing, Tarrytown, N. Y. Door-knob. No. 929,565; July 27; Sp. p. 5900; Gaz. vol. 144; p. 1037.
- Curtis Dry Placer Machine Company. (See Curtis, H. P., assignor.)
- Curtis, E. A., Decatur, Ill. Pedestal for car-trucks. No. 911,575; Feb. 9; Sp. p. 1076; Gaz. vol. 139; p. 210.
- Curtis, E. A., Decatur, Ill. Car-truck. No. 940,133; Nov. 16; Sp. p. 3740; Gaz. vol. 148; p. 637.
- Curtis, E. D., Chicago, Ill. Door-operating mechanism. No. 941,132; Nov. 23; Sp. p. 5938; Gaz. vol. 148; p. 998.
- Curtis, F. A., assignor to Standard Wick & Burner Co., Chicago, Ill. Burner. No. 917,261; Apr. 6; Sp. p. 623; Gaz. vol. 141; p. 106.
- Curtis, F. A., assignor to Standard Wick & Burner Co., Chicago, Ill. Lamp. No. 917,262; Apr. 6; Sp. p. 625; Gaz. vol. 141; p. 106.
- Curtis, F. A., assignor to Brilliant Light Company, Chicago, Ill. Lamp. No. 933,162; Sept. 7; Sp. p. 268; Gaz. vol. 146; p. 44.
- Curtis, G. W., assignor to Parish & Bingham Company, Cleveland, Ohio. Lever. No. 914,118; Mar. 2; Sp. p. 990; Gaz. vol. 140; p. 157.
- Curtis, H. P., assignor to Curtis Dry Placer Machine Company, Denver, Colo. Dry-placer machine or concentrator. No. 910,992; Jan. 26; Sp. p. 5204; Gaz. vol. 138; p. 938.
- Curtis, J. T., Bement, Ill. Telephone-receiver. No. 908,846; Jan. 5; Sp. p. 862; Gaz. vol. 138; p. 136.
- Curtis, L. E., Chicago, Ill., assignor to B. Jones, trustee, St. Louis, Mo. Machine for expanding sheet metal. No. 917,715; Apr. 6; Sp. p. 1465; Gaz. vol. 141; p. 257.
- Curtis, M. E., Everett, Mass. Machine for making tubes. No. 912,292; Feb. 16; Sp. p. 2615; Gaz. vol. 139; p. 481.
- Curtis, O. T. (See Bowers, G. W., assignor.)
- Curtis, T. F., Pineville, assignor of one-third to J. D. Askins and one-third to N. M. Bowie, Louisville, Ky. Mail-bag catching and delivering apparatus. No. 938,985; Nov. 2; Sp. p. 1157; Gaz. vol. 148; p. 185.
- Curtis, T. H., Louisville, Ky. Railway steam-motor car. No. 920,114; May 4; Sp. p. 44; Gaz. vol. 142; p. 6.
- Curtis, T. H., Louisville, Ky. Grip-tread for elastic tires. No. 925,161; June 15; Sp. p. 4398; Gaz. vol. 143; p. 751.
- Curtis, V. D., Chicago, Ill. Combined land roller, pulverizer, and seed-planter. No. 925,565; June 22; Sp. p. 5159; Gaz. vol. 143; p. 910.
- Curtis, W. M., Vancouver, British Columbia, Canada. Oil-can cutter and tapping valve. No. 938,644; Nov. 2; Sp. p. 438; Gaz. vol. 148; p. 68.
- Curtis, W. T., Battersea, London, England. Apparatus for filling vessels with liquid. No. 933,892; Sept. 14; Sp. p. 1894; Gaz. vol. 146; p. 313.
- Curtis, W. W. (See Larson, J. M., assignor.)
- Curtis, W. W., assignor to National Regulator Company, Chicago, Ill. Temperature-regulating device. No. 912,293; Feb. 16; Sp. p. 2618; Gaz. vol. 139; p. 481.
- Curtiss, Z. A., Channing, Tex. Vehicle-wheel. No. 930,355; Aug. 10; Sp. p. 1477; Gaz. vol. 145; p. 270.
- Curtiss, D. S., Seattle, Wash. Chair attachment. No. 918,737; Apr. 20; Sp. p. 3699; Gaz. vol. 141; p. 656.
- Curtiss, E., assignor of one-fourth to M. L. Matheson, one-fourth to E. Matheson, and one-fourth to A. De Noble, Virginia, Minn. Fly-screen. No. 939,395; Nov. 9; Sp. p. 2113; Gaz. vol. 148; p. 353.
- Curtiss, G. E. (See Smith and Curtiss.)
- Curtiss, G. W., Kansas City, Mo. Camera. No. 924,147; June 8; Sp. p. 2275; Gaz. vol. 143; p. 376.
- Curtright, H. P., Holliday, Mo. Riding attachment for plows, harrows, and the like. No. 926,548; June 29; Sp. p. 7179; Gaz. vol. 143; p. 1269.
- Curwen, S. M., Haverford, assignor to J. G. Brill Company, Philadelphia, Pa. Passenger-car. No. 922,395; May 18; Sp. p. 4720; Gaz. vol. 142; p. 817.
- Curwen, S. M., assignor to J. G. Brill Company, Philadelphia, Pa. Brake-hanger. No. 937,512; Oct. 19; Sp. p. 4016; Gaz. vol. 147; p. 682.
- Curwen, S. M., Haverford, and W. M. Smith, Moores, assignors to J. G. Brill Company, Philadelphia, Pa. Passenger-car. No. 909,762; Jan. 12; Sp. p. 2678; Gaz. vol. 138; p. 473.
- Curwen, S. M., Haverford, and W. M. Smith, Moores, assignors to J. G. Brill Company, Philadelphia, Pa. Passenger-car. No. 934,142; Sept. 14; Sp. p. 2407; Gaz. vol. 146; p. 394.
- Cushing, J. S., Norwood, Mass. Wheel-tire. No. 943,816; Dec. 21; Sp. p. 3837; Gaz. vol. 149; p. 667.
- Cushing, W., Claysville, Pa. Feed mechanism for tube-cutters. No. 935,467; Sept. 28; Sp. p. 5000; Gaz. vol. 146; p. 883.
- Cushion Carton Mfg. Co. (See Hilliker, J. A., assignor.)



*Alphabetical list of patentees—Continued.*

- Cushman, A. L., Concord, N. H. Dynamo-electric machine. No. 938,558; Nov. 2; Sp. p. 266; Gaz. vol. 148; p. 39.
- Cushman, A. L., assignor of one-half to B. A. Kimball, Concord, N. H. Dynamo-electric machine. No. 932,537; Aug. 31; Sp. p. 6148; Gaz. vol. 145; p. 1066.
- Cushman, I. B., *et al.* (See Lyon, G. L., assignor.)
- Cusson Frères et Cie., G. et A. (See Cusson, G., assignor.)
- Cusson, G., assignor to G. et A. Cusson Frères et Cie., Chateauroux, France. Centrifugal bolting-machine. No. 932,847; Aug. 31; Sp. p. 6807; Gaz. vol. 145; p. 1168.
- Custard, J. F., Coplay, Pa. Centrifugal grinding-mill. No. 925,305; June 15; Sp. p. 4665; Gaz. vol. 143; p. 797.
- Custer, D. W., Brooklyn, assignor to Custer Printing Press Company, New York, N. Y. Ruling mechanism. No. 910,460; Jan. 19; Sp. p. 4145; Gaz. vol. 138; p. 743.
- Custer, D. W., Brooklyn, assignor to Custer Printing Press Company, New York, N. Y. Printing-press. No. 910,461; Jan. 19; Sp. p. 4146; Gaz. vol. 138; p. 743.
- Custer, D. W., Brooklyn, assignor to Custer Printing Press Company, New York, N. Y. Automatic multiplex press. No. 927,123; July 6; Sp. p. 887; Gaz. vol. 144; p. 143.
- Custer, E. A., Philadelphia, Pa., assignor to Custer Sandless Casting Company. Casting structures. No. 922,753; May 25; Sp. p. 5473; Gaz. vol. 142; p. 963.
- Custer, E. A., Philadelphia, Pa., assignor to Custer Sandless Casting Company. Casting hollow structures in permanent molds. No. 922,754; May 25; Sp. p. 5475; Gaz. vol. 142; p. 963.
- Custer, E. A., Philadelphia, Pa., assignor to Custer Sandless Casting Company. Mode of casting metal structures in permanent molds having permanent cores. No. 925,803; June 22; Sp. p. 5699; Gaz. vol. 143; p. 987.
- Custer, E. A., Philadelphia, Pa., assignor to Custer Sandless Casting Company. Producing from foundry-iron a product having cutting and other properties of high-grade tool and high-speed steel. No. 927,495; July 13; Sp. p. 1625; Gaz. vol. 144; p. 292.
- Custer, E. A., Philadelphia, Pa., assignor to Custer Sandless Casting Company, Wilmington, Del. Metal product from cast-iron. No. 927,496; July 13; Sp. p. 1626; Gaz. vol. 144; p. 292.
- Custer, J. S. (See Turner and Custer.)
- Custer, L. E., Dayton, Ohio. Means for controlling dirigible torpedoes. No. 913,814; Mar. 2; Sp. p. 284; Gaz. vol. 140; p. 49.
- Custer, L. R., Munhall, Pa. Mill for rolling shapes. No. 929,400; July 27; Sp. p. 5617; Gaz. vol. 144; p. 985.
- Custer Printing Press Company. (See Custer, D. W., assignor.)
- Custer Sandless Casting Company. (See Custer, E. A., assignor.)
- Custis, M. A. (See Smith, O. H., assignor.)
- Cuthbert, W. D., Mobile, Ala. Rock-chisel machine for channel-excavation. No. 920,031; Apr. 27; Sp. p. 6560; Gaz. vol. 141; p. 1118.
- Cuthbertson, W. E., *et al.* (See Haynes, J., assignor.)
- Cutler, H. H., Milwaukee, Wis. Combustion-engine. No. 923,496; June 1; Sp. p. 848; Gaz. vol. 143; p. 129.
- Cutler-Hammer Manufacturing Company. (See Miller, C. H., assignor.)
- Cutler-Hammer Manufacturing Company. (See Townsend, F. P., assignor.)
- Cutler-Hammer Mfg. Co. (See Barnum, T. E., assignor.)
- Cutler-Hammer Mfg. Co. (See Berresford, A. W., assignor.)
- Cutler-Hammer Mfg. Co. (See Carpenter, C. E., assignor.)
- Cutler-Hammer Mfg. Co. (See Janette, J. T., assignor.)
- Cutler-Hammer Mfg. Co. (See Tatum, L. L., assignor.)
- Cutler-Hammer Mfg. Co. (See Wiegand, H. J., assignor.)
- Cutler, J. W., assignor to Cutler Manufacturing Company, Rochester, N. Y. Mail-receptacle. No. 923,816; June 8; Sp. p. 1631; Gaz. vol. 143; p. 270.
- Cutler, J. W., assignor, by mesne assignments, to Cutler Mail Chute Company, Rochester, N. Y. Mail-chute. No. 943,183; Dec. 14; Sp. p. 2474; Gaz. vol. 149; p. 420.
- Cutler Mail Chute Company. (See Cutler, J. W., assignor.)
- Cutler Manufacturing Company. (See Cutler, J. W., assignor.)
- Cutler, P. D., *et al.* (See Ball, J. F., assignor.)
- Cutright, A. H., Salt Lake City, Utah. Washing-machine. No. 917,014; Apr. 6; Sp. p. 101; Gaz. vol. 141; p. 22.
- Cutter, C. H., *et al.* (See Stewart, A. C., assignor.)
- Cutter Electrical and Manufacturing Company. (See Scott, W. M., assignor.)
- Cutter, J. H. (See Schneider, C. C., assignor.)
- Cutter, S. M., Montreal, Quebec, Canada, assignor, by mesne assignments, to United Shoe Machinery Company. Pegging-machine. No. 930,047; Aug. 3; Sp. p. 891; Gaz. vol. 145; p. 144.
- Cutts, W. E. (See Lingenfelter and Cutts.)
- Cuyler, E. S., near Tacoma, Wash. Timber-felling machine. No. 938,559; Nov. 2; Sp. p. 268; Gaz. vol. 148; p. 40.
- Cyclone Drill Company. (See Pfouts, L. S., assignor.)
- Cyclone Drill Company. (See Tschantz, W. H., assignor.)
- Cyphers, C. A., assignor to Model Incubator Company, Buffalo, N. Y. Holder for incubator-thermometers. No. 926,549; June 29; Sp. p. 7182; Gaz. vol. 143; p. 1269.
- Cyphers, C. A., assignor to Model Incubator Company, Buffalo, N. Y. Extinguisher for incubator-heaters. No. 932,448; Aug. 31; Sp. p. 5948; Gaz. vol. 145; p. 1036.
- Cyphers Incubator Company. (See Adair, C. E., assignor.)
- Cyphers Incubator Company. (See Davis, C. Z., assignor.)
- Cyphers Incubator Company. (See Perkins, F. C., assignor.)
- Cyphers Incubator Company. (See Perkins and Davis, assignors.)
- Cyr, A. T., Hugo, Minn. Drop wagon-box. No. 928,503; July 20; Sp. p. 3738; Gaz. vol. 144; p. 658.
- Cyr, J. T. (See Wyman and Cyr.)
- Czapiewski, J. P., Winona, Minn. Umbrella. No. 918,015; Apr. 13; Sp. p. 2149; Gaz. vol. 141; p. 387.
- Czilling, L. E. v., Pittsburg, Pa. Device for controlling horses. No. 925,873; June 22; Sp. p. 5847; Gaz. vol. 143; p. 1011.
- D. and A. Post Mold Company. (See Dougherty and Armstrong, assignors.)
- D. H. Burrell & Company. (See Burrell, L., assignor.)
- D. H. Burrell & Company. (See Dalzell, C. B., assignor.)
- D. M. Sechler Carriage Company. (See Englund, E. E., assignor.)
- D. P. Company. (See Gamage, H. C., assignor.)
- D & W Fuse Co. (See Downes, L. W., assignor.)
- D'Aix, F. C. L., New York, N. Y. Line-casting machine. No. 944,588; Dec. 28; Sp. p. 5528; Gaz. vol. 149; p. 959.
- D'Aix, F. C. L., New York, N. Y. Line-casting machine. No. 944,981; Dec. 28; Sp. p. 6345; Gaz. vol. 149; p. 1089.
- D'Aix, F. C. L., assignor, by mesne assignments, to Empire Trust Company, trustee, New York, N. Y. Line-casting machine. (Reissue.) No. 13,048; Dec. 7; Sp. p. 1768; Gaz. vol. 149; p. 285.
- D'Amario, A., Providence, R. I. Flushing apparatus. No. 930,537; Aug. 10; Sp. p. 1885; Gaz. vol. 145; p. 332.
- D'Aoust, V., and N. Deck, Brussels, Belgium. Traveler for ring-spinning machines. No. 924,325; June 8; Sp. p. 2687; Gaz. vol. 143; p. 437.
- D'Aversa, F. (See Campanello and D'Aversa.)
- D'Aversa, F., New York, N. Y. Fan. No. 915,663; Mar. 16; Sp. p. 4159; Gaz. vol. 140; p. 717.
- D'Elia L., New York, N. Y. Skirt-marker. No. 923,029; May 25; Sp. p. 6039; Gaz. vol. 142; p. 1052.
- D'Equieville-Montjustin, R., Kiel, Germany. Entrance-shaft for submarine boats. No. 932,379; Aug. 24; Sp. p. 5797; Gaz. vol. 145; p. 991.
- D'Equieville-Montjustin, R., Kiel, Germany. Submarine boat. No. 943,604; Dec. 14; Sp. p. 3350; Gaz. vol. 149; p. 565.
- D'Equieville-Montjustin, R., Kiel, Germany. Submarine boat. No. 931,915; Aug. 24; Sp. p. 4881; Gaz. vol. 145; p. 837.
- D'Espósito, J., Pittsburg, Pa. Rail-joint. No. 933,534; Sept. 7; Sp. p. 1183; Gaz. vol. 146; p. 171.
- D'Homerque, J. B., Pittsburg, Pa. Apparatus for melting snow. No. 933,837; Sept. 14; Sp. p. 1783; Gaz. vol. 146; p. 295.
- D'Humy, F. E., Englewood, N. J. Perforating apparatus. No. 944,612; Dec. 28; Sp. p. 5579; Gaz. vol. 149; p. 967.
- Da Costa, J. S., Easton, assignor of one-half to R. W. Canning, South Bethlehem, Pa. Rotary engine. No. 934,143; Sept. 14; Sp. p. 2408; Gaz. vol. 146; p. 395.
- Dabney, C., Winnsboro, Tex. Feed-mixing machine. No. 923,248; June 1; Sp. p. 266; Gaz. vol. 143; p. 44.
- Dacheux, R., Liege, Belgium. Device for justifying lines of type. No. 931,915; Aug. 24; Sp. p. 4881; Gaz. vol. 145; p. 837.
- Dacus, A., San Antonio, Tex. Drinking-cup. No. 921,514; May 11; Sp. p. 2923; Gaz. vol. 142; p. 501.
- Daellenbach, C. R., Braddock, assignor of one-half to J. W. Vernam, Swissvale, Pa. Internal-combustion engine. No. 909,558; Jan. 12; Sp. p. 2273; Gaz. vol. 138; p. 403.
- Dafoe, F. W., Rock Island, Ill. Bottling device. No. 926,550; June 29; Sp. p. 7183; Gaz. vol. 143; p. 1269.
- Dagel, T., Sibley, Iowa. Threshing-cylinder tooth. No. 927,331; July 6; Sp. p. 1270; Gaz. vol. 144; p. 210.
- Daggett, F. G., and E. G. Slinghart, Cleveland, Ohio. Hair-growing device. No. 938,125; Oct. 26; Sp. p. 5283; Gaz. vol. 147; p. 904.

*Alphabetical list of patentees—Continued.*

- Dague, H. P., Akron, Ohio. Lawn-edge trimmer. No. 937,579; Oct. 19; Sp. p. 4140; Gaz. vol. 147; p. 705.
- Dahl, A., New York, N. Y. Sheet-metal shelf and brackets. No. 930,734; Aug. 10; Sp. p. 2283; Gaz. vol. 145; p. 397.
- Dahl, C. A., assignor to Reece Buttonhole Machine Company, Boston, Mass. Buttonhole-sewing machine. No. 911,551; Feb. 2; Sp. p. 1003; Gaz. vol. 139; p. 175.
- Dahl, C. J. H. (See Dahl, L. F., assignor.)
- Dahl, F., Bruckhausen, Germany. Hearth-furnace. No. 931,916; Aug. 24; Sp. p. 4881; Gaz. vol. 145; p. 837.
- Dahl, H., and M. Martin, Berlin, Germany; said Martin assignor to said Dahl. Speed-indicator. No. 928,635; July 20; Sp. p. 4026; Gaz. vol. 144; p. 702.
- Dahl, J., Gross-Flottbek, assignor to Blohm and Voss, Commanditgesellschaft auf Actien, Hamburg, Germany. Device for fixing turbine-blades. No. 930,735; Aug. 10; Sp. p. 2284; Gaz. vol. 145; p. 397.
- Dahl, K. M., assignor to Union Iron Works Co., San Francisco, Cal. Safety cross-head. No. 927,774; July 13; Sp. p. 2222; Gaz. vol. 144; p. 385.
- Dahl, L. F., assignor of one-half to G. W. Parr, Snohomish, Wash. Tumbler-lock. No. 913,622; Feb. 23; Sp. p. 5381; Gaz. vol. 139; p. 951.
- Dahl, L. F., Snohomish, assignor of one-fourth to C. J. H. Dahl, Blaine, Wash. Device for overcoming dead-centers. No. 929,919; Aug. 3; Sp. p. 635; Gaz. vol. 145; p. 101.
- Dahl, N., Trondhjem, Norway. Box-fastener. No. 909,161; Jan. 12; Sp. p. 1508; Gaz. vol. 138; p. 273.
- Dahl, O. M. (See Mortensen, M., assignor.)
- Dahl, P. B., Chicago, Ill. Piano-shipping case. No. 910,792; Jan. 26; Sp. p. 4837; Gaz. vol. 138; p. 874.
- Dahlberg, C. L., Des Moines, Iowa. Note-book holder. No. 934,883; Sept. 21; Sp. p. 3841; Gaz. vol. 146; p. 666.
- Dahlberg, F. J., assignor of one-fourth to O. A. Carlson, Redding, Cal. Valve-stem. No. 912,082; Feb. 9; Sp. p. 2170; Gaz. vol. 139; p. 376.
- Dahlberg, S., assignor of three-tenths to G. N. Tegnell, Springfield, Mass. Air-compressing pump. No. 929,401; July 27; Sp. p. 5619; Gaz. vol. 144; p. 985.
- Dahlen, J. P., Idaho Falls, Idaho. Gate. No. 929,836; Aug. 3; Sp. p. 442; Gaz. vol. 145; p. 73.
- Dahlin, F. A., Chicago, and E. Carlson, Waukegan, Ill. Aerial railway. No. 935,780; Oct. 5; Sp. p. 357; Gaz. vol. 147; p. 54.
- Dahlin, F. A., Chicago, and E. Carlson, Waukegan, Ill. Car. No. 943,007; Dec. 14; Sp. p. 2108; Gaz. vol. 149; p. 362.
- Dahlmann, H., Gevelsberg, Germany. Blade for spades or shovels. No. 942,616; Dec. 7; Sp. p. 1220; Gaz. vol. 149; p. 199.
- Dahquist, J. L., assignor of one-half to E. E. Woodworth and T. J. Swartz, St. Paul, Minn. Jar-holder. No. 922,097; May 18; Sp. p. 4126; Gaz. vol. 142; p. 721.
- Dahquist, W. (See Laughlin, W. S., assignor.)
- Dahlstedt, D., Kansas City, Mo. Water-gate for steam-boilers. No. 933,236; Sept. 7; Sp. p. 471; Gaz. vol. 146; p. 73.
- Dahly, J., assignor to Latham Machinery Company, Chicago, Ill. Machine for crimping book-leaves. No. 910,790; Jan. 26; Sp. p. 4832; Gaz. vol. 138; p. 874.
- Dahly, J., assignor to Latham Machinery Company, Chicago, Ill. Machine for creasing covers for books, magazines, pamphlets, and the like. No. 910,791; Jan. 26; Sp. p. 4834; Gaz. vol. 138; p. 874.
- Dahly, J., assignor to Latham Machinery Company, Chicago, Ill. Paper-cutter. No. 928,636; July 20; Sp. p. 4027; Gaz. vol. 144; p. 702.
- Dahm, H., Edgewater, N. J. Locking device for coal-hole covers. No. 909,873; Jan. 19; Sp. p. 2905; Gaz. vol. 138; p. 540.
- Dailey, E. B., Omaha, Nebr., assignor to E. H. Harriman, Arden, N. Y. Truck construction. No. 927,497; July 13; Sp. p. 1627; Gaz. vol. 144; p. 292.
- Dailey, E. C., New York, N. Y. Corset attachment. No. 917,852; Apr. 13; Sp. p. 1786; Gaz. vol. 141; p. 328.
- Dailey, E. C., New York, N. Y. Hat-holder. No. 922,267; May 18; Sp. p. 4474; Gaz. vol. 142; p. 777.
- Dailey, F. A., St. Paul, and B. Long, Minneapolis, assignors to Plunger Plastic Packing Company, St. Paul, Minn. Storage-chamber stuffing-box. No. 934,289; Sept. 14; Sp. p. 2668; Gaz. vol. 146; p. 443.
- Dailey, J. H., Wilson, N. Y. Air-compressor. No. 936,609; Oct. 12; Sp. p. 2132; Gaz. vol. 147; p. 353.
- Dailey, T., Kibbey, Mont. Gate-latch. No. 925,874; June 22; Sp. p. 5849; Gaz. vol. 143; p. 1011.
- Daily, W. H., Tucson, Ariz. Ter. Wave-motor. No. 930,536; Aug. 10; Sp. p. 1884; Gaz. vol. 145; p. 332.
- Daimler-Motoren-Gesellschaft. (See Daimler, P., assignor.)
- Daimler Motoren-Gesellschaft. (See Lorenz, W., assignor.)
- Daimler, P., Untertürkheim, Germany. Spring-buckle for securing springs to axles. No. 926,176; June 29; Sp. p. 6480; Gaz. vol. 143; p. 1147.
- Daimler, P., Untertürkheim, near Stuttgart, assignor to Daimler-Motoren-Gesellschaft, Stuttgart, Germany. Transmission-gear for propeller-shafts and the like. No. 924,323; June 8; Sp. p. 2683; Gaz. vol. 143; p. 437.
- Dain, J., Ottumwa, Iowa. Stacker-tooth. No. 913,702; Mar. 2; Sp. p. 50; Gaz. vol. 140; p. 11.
- Dain, J., Ottumwa, Iowa. Pitman. No. 919,542; Apr. 27; Sp. p. 5560; Gaz. vol. 141; p. 955.
- Dain, J., Ottumwa, Iowa. Fender-rod for mowers. No. 921,955; May 18; Sp. p. 3843; Gaz. vol. 142; p. 673.
- Dain, J., Ottumwa, Iowa. Hay-stacker. No. 935,298; Sept. 28; Sp. p. 4666; Gaz. vol. 146; p. 829.
- Dain, J., Ottumwa, Iowa. Hay-press. No. 943,656; Dec. 21; Sp. p. 3523; Gaz. vol. 149; p. 613.
- Dain, J., Ottumwa, Iowa, and J. L. Jackson, River Forest, Ill., assignors to Dain Manufacturing Company, Ottumwa, Iowa. Hay-retainer for hay-stackers. No. 921,954; May 18; Sp. p. 3841; Gaz. vol. 142; p. 672.
- Dain Manufacturing Company. (See Dain and Jackson, assignors.)
- Dainty, J. A., Newark, N. J. Detonating toy. No. 927,775; July 13; Sp. p. 2224; Gaz. vol. 144; p. 385.
- Dairymen's Manufacturing Company. (See Conover, J. B., assignor.)
- Dairymen's Supply Co. (See Meloney, G. R. and W. L., assignors.)
- Dake-American Steam Turbine Company. (See Dake, C. W., assignor.)
- Dake, C. W., assignor to Dake-American Steam Turbine Company, Grand Rapids, Mich. Elastic-fluid turbine. No. 911,576; Feb. 9; Sp. p. 1079; Gaz. vol. 139; p. 211.
- Dake, C. W., assignor to Dake-American Steam Turbine Company, Grand Rapids, Mich. Elastic-fluid turbine. No. 911,577; Feb. 9; Sp. p. 1082; Gaz. vol. 139; p. 211.
- Dake, C. W., assignor to Dake-American Steam Turbine Company, Grand Rapids, Mich. Governing means for elastic-fluid turbines. No. 930,048; Aug. 3; Sp. p. 899; Gaz. vol. 145; p. 144.
- Dale, B., Milwaukee, Wis. Flushing-tank valve. No. 926,730; July 6; Sp. p. 21; Gaz. vol. 144; p. 6.
- Dale Company. (See Salt, H. S., assignor.)
- Dale, J. H. (See Lewis, H. J., assignor.)
- Dale, J. H., New York, N. Y. Shade-holder. No. 936,421; Oct. 12; Sp. p. 1731; Gaz. vol. 147; p. 290.
- Dalén, G., assignor to Aktiebolaget Gasaccumulator, Stockholm, Sweden. Signal-light apparatus. (Reissue.) No. 12,940; Apr. 13; Sp. p. 3112; Gaz. vol. 141; p. 545.
- Dalén, G., Stockholm, Sweden, assignor, by mesne assignments, to American Gasaccumulator Company. Automatically opening and closing valves. No. 939,986; Nov. 16; Sp. p. 3390; Gaz. vol. 148; p. 584.
- Dalén, G., Stockholm, Sweden, assignor, by mesne assignments, to American Gasaccumulator Company, Philadelphia, Pa. Signal-light apparatus. No. 943,300; Dec. 14; Sp. p. 2728; Gaz. vol. 149; p. 461.
- Daley, D. M., West Seneca, A. H. Long and H. L. Maltbie, Roland, N. Y. Safety-brake apparatus for railway-trains. No. 935,468; Sept. 28; Sp. p. 5001; Gaz. vol. 146; p. 884.
- Daley, F. R., Parkersburg, W. Va. Domestic still. No. 915,273; Mar. 16; Sp. p. 3344; Gaz. vol. 140; p. 584.
- Daley, J. A., assignor to Olmstead-Quaboag Corset Company, West Brookfield, Mass. Corset. No. 939,893; Nov. 9; Sp. p. 3170; Gaz. vol. 148; p. 523.
- Daley, W. A., Chicago, Ill. Carburetor for internal-combustion engines. No. 912,083; Feb. 9; Sp. p. 2171; Gaz. vol. 139; p. 376.
- Daley, W. T. (See Hines, G. E., assignor.)
- Dalgarn, L. M. (See Nix, J. D., assignor.)
- Dalhousie, L. C., Chicago, Ill. Door. No. 913,269; Feb. 23; Sp. p. 4632; Gaz. vol. 139; p. 831.
- Dalin, C. (See Sasseman and Dalin.)
- Dalitz, H., Cleveland, Ohio. Touring-map carrier for automobiles. No. 938,828; Nov. 2; Sp. p. 816; Gaz. vol. 148; p. 131.
- Dalkranian, J. K., assignor, by mesne assignments, to United States Persian Carpet Company, New York, N. Y. Forming woven pile fabrics. No. 923,026; May 25; Sp. p. 6032; Gaz. vol. 142; p. 1030.
- Dalkranian, J. K., assignor, by mesne assignments, to United States Persian Carpet Company, New York, N. Y. Woven pile fabric. No. 923,027; May 25; Sp. p. 6035; Gaz. vol. 142; p. 1050.
- Dall, W. M., Basking Ridge, N. J. Cue. No. 942,486; Dec. 7; Sp. p. 960; Gaz. vol. 149; p. 155.
- Dallaine, E. C., New York, N. Y. Coffee-urn. No. 918,974; Apr. 20; Sp. p. 4204; Gaz. vol. 141; p. 734.
- Dallimore, G. W., Pocatello, Idaho. Flag or signal. No. 938,221; Oct. 26; Sp. p. 5492; Gaz. vol. 147; p. 939.
- Dallison, G. J., Ottawa, Ontario, Canada. Variable-speed gear. No. 913,623; Feb. 23; Sp. p. 5383; Gaz. vol. 139; p. 951.
- Dallison, G. J., Ottawa, Ontario, Canada. Cranking-handle. No. 927,642; July 13; Sp. p. 1952; Gaz. vol. 144; p. 342.
- Dallman, C. F., Antigo, Wis. Hoisting-machine. No. 928,851; July 20; Sp. p. 4436; Gaz. vol. 144; p. 774.
- Dally, A. B., Jr., et al. (See Wright, W. J., assignor.)
- Dalmar, R., and A. K. Wander, Chicago, Ill. Belt attachment. No. 934,290; Sept. 14; Sp. p. 2670; Gaz. vol. 146; p. 443.



*Alphabetical list of patentees—Continued.*

- Dalpay, J., Newport, Wash. Hoe attachment for rakes. No. 923,629; June 1; Sp. p. 1156; Gaz. vol. 143; p. 177.
- Dalton, C. (See Dalton, W., assignor.)
- Dalton, F. J., Joliet, Ill., assignor to Rail Joint Company, New York, N. Y. Rail-joint. No. 920,831; May 4; Sp. p. 1491; Gaz. vol. 142; p. 241.
- Dalton, W., Buffalo, N. Y., assignor to C. Dalton, Limerick, Ireland. Elastic belt. No. 924,324; June 8; Sp. p. 2686; Gaz. vol. 143; p. 487.
- Dalton, W., Schenectady, assignor to American Locomotive Company, New York, N. Y. Spark-arresting appliance for lignite-burning locomotives. No. 934,795; Sept. 21; Sp. p. 3667; Gaz. vol. 146; p. 637.
- Dalton, W., and J. H. Clements, Jr., Schenectady, N. Y. Ditch-filling mechanism. No. 918,016; Apr. 13; Sp. p. 2150; Gaz. vol. 141; p. 387.
- Dalton, W., and W. E. Woodard, Schenectady, assignors to American Locomotive Company, New York, N. Y. Spring and equalizer system for electric locomotives. No. 918,828; Apr. 20; Sp. p. 3885; Gaz. vol. 141; p. 685.
- Daly, C. M., G. A. Weidhaas, and W. S. Henry, New York, N. Y. Hygienic eating utensil. No. 910,914; Jan. 26; Sp. p. 5067; Gaz. vol. 138; p. 913.
- Daly, H. M., Presidio, Tex. Door-holder. No. 942,310; Dec. 7; Sp. p. 602; Gaz. vol. 149; p. 95.
- Daly, J. M., Chicago, Ill. Computing-machine. No. 939,221; Nov. 9; Sp. p. 1659; Gaz. vol. 148; p. 293.
- Daly, J. M., Chicago, Ill. Tonnage-equating machine. No. 939,222; Nov. 9; Sp. p. 1671; Gaz. vol. 148; p. 293.
- Daly, J. M., Chicago, Ill. Computing-machine. No. 939,479; Nov. 9; Sp. p. 2297; Gaz. vol. 148; p. 380.
- Daly, J. R., New Orleans, La., assignor to J. E. Cross, Baltimore, Md. Automatic oiling device for gas-meter diaphragms. No. 939,675; Nov. 9; Sp. p. 2717; Gaz. vol. 148; p. 449.
- Daly, J. R., New Orleans, La., assignor to J. E. Cross, Baltimore, Md. Automatic oiling device for gas-meter diaphragms. No. 940,304; Nov. 16; Sp. p. 4129; Gaz. vol. 148; p. 696.
- Daly, T. E. (See Fowler and Daly.)
- Daly, T. E. (See Goyette, A. J., assignor.)
- Daly, T. E., Springfield, Mass. Cart. No. 911,212; Feb. 2; Sp. p. 372; Gaz. vol. 139; p. 65.
- Daizell, C. B., assignor to D. H. Burrell & Company, Little Falls, N. Y. Pneumatic cleaning-tool. No. 936,222; Oct. 5; Sp. p. 1287; Gaz. vol. 147; p. 196.
- Dalziel, J., Derby, England. Reversing-switch. No. 915,053; Mar. 9; Sp. p. 2862; Gaz. vol. 140; p. 485.
- Dam, G., Monsey, N. Y. Spark-arrester. No. 918,290; Apr. 13; Sp. p. 2703; Gaz. vol. 141; p. 479.
- Daman, L. W., Sackville, New Brunswick, Canada. Flask. No. 940,858; Nov. 23; Sp. p. 5351; Gaz. vol. 148; p. 907.
- Damey, J. (See Lathrop, F. H., assignor.)
- Damitz, A., Berlin, Germany. Closing device with stop for swinging doors. No. 927,498; July 13; Sp. p. 1628; Gaz. vol. 144; p. 293.
- Damm, F. C., St. Louis, Mo. Water-heater. No. 921,088; May 11; Sp. p. 2030; Gaz. vol. 142; p. 357.
- Damon, G. B., Glenside, Pa. Apparatus for briquetting fine coal and the waste materials thereof. No. 914,247; Mar. 2; Sp. p. 1262; Gaz. vol. 140; p. 197.
- Damon, G. B., Glenside, Pa. Briquetting coal and the waste materials thereof. No. 914,248; Mar. 2; Sp. p. 1268; Gaz. vol. 140; p. 198.
- Damon, G. F. (See Bosworth, C., assignor.)
- Damon, G. L. (See Bowman and Damon.)
- Damon, G. L., Pittsburg, Pa. Mounting heavy doors of safes and vaults. No. 908,448; Jan. 5; Sp. p. 30; Gaz. vol. 138; p. 7.
- Damoude, R. R., Plainview, Minn. Weed-digger. No. 943,817; Dec. 21; Sp. p. 3839; Gaz. vol. 149; p. 667.
- Damour, L., Trois Pistoles, Quebec, Canada. Axle-oiling device. No. 909,370; Jan. 12; Sp. p. 1904; Gaz. vol. 138; p. 340.
- Damron, J. C., Roanoke, Va. Baling-press. No. 914,336; Mar. 2; Sp. p. 1444; Gaz. vol. 140; p. 224.
- Damrow, E. C. (See Damrow, G. H. and E. C.)
- Damrow, G. H. and E. C., Fond du Lac, Wis. Milk-can. No. 941,232; Nov. 23; Sp. p. 6154; Gaz. vol. 148; p. 1032.
- Dana, G. C., *et al.* (See Hetherington, W., assignor.)
- Danahay, M. E., Eureka, Ill. Pencil attachment. No. 928,852; July 20; Sp. p. 4439; Gaz. vol. 144; p. 774.
- Danckwardt, P., Denver, Colo. Purifying smelter-gases. No. 918,424; Apr. 13; Sp. p. 2958; Gaz. vol. 141; p. 521.
- Danckwardt, P., Denver, Colo. Power-producing apparatus. No. 933,022; Aug. 31; Sp. p. 7135; Gaz. vol. 145; p. 1226.
- Danckwardt, P., Denver, Colo. Power-producing process. No. 933,023; Aug. 31; Sp. p. 7137; Gaz. vol. 145; p. 1226.
- Dando, F., Beaconsfield, Tasmania, Australia. Game apparatus. No. 935,469; Sept. 28; Sp. p. 5003; Gaz. vol. 146; p. 884.
- Dandridge, E. P. (See Cory and Dandridge.)
- Dandridge, E. P., Philadelphia, Pa. Elevating and lowering apparatus. No. 938,986; Nov. 2; Sp. p. 1160; Gaz. vol. 148; p. 185.
- Danford, J. W., Marazion, England. Boat-plug. No. 936,312; Oct. 12; Sp. p. 1465; Gaz. vol. 147; p. 253.
- Danforth, C. W., and N. Jones, Sharon, Pa. Electrolytically removing iron-oxid scale. No. 939,223; Nov. 9; Sp. p. 1685; Gaz. vol. 148; p. 293.
- Danforth, C. W., and N. Jones, Sharon, Pa. Electrolytically removing iron-oxid scale. No. 939,224; Nov. 9; Sp. p. 1687; Gaz. vol. 148; p. 294.
- Danforth, L. D., Denver, Colo. Wire-bender. No. 942,440; Dec. 7; Sp. p. 844; Gaz. vol. 149; p. 138.
- Danforth, M. E., Washington, D. C., assignor to United States Radiator Company, Dunkirk, N. Y. Radiator. No. 914,929; Mar. 9; Sp. p. 2655; Gaz. vol. 140; p. 445.
- Danglemeier, C. W., and J. J. Connors, Dubuque, Iowa. Portable grinding-machine. No. 942,311; Dec. 7; Sp. p. 604; Gaz. vol. 149; p. 96.
- Dani, F. (See Dani, G., assignor.)
- Dani, G., assignor of one-half to F. Dani, New York, N. Y. Live-stock tying and releasing device. No. 920,923; May 11; Sp. p. 1702; Gaz. vol. 142; p. 302.
- Daniel, A. D., Tacoma, Wash. Clothes-rack. No. 913,106; Feb. 23; Sp. p. 4289; Gaz. vol. 139; p. 778.
- Daniel, A. J., St. Louis, Mo. Practice-keyboard. No. 921,806; May 18; Sp. p. 3526; Gaz. vol. 142; p. 626.
- Daniel, E., Dearborn, Mich. Propeller for boats. No. 913,624; Feb. 23; Sp. p. 5385; Gaz. vol. 139; p. 952.
- Daniel, J. F., Fort Worth, Tex. Bit-stock for braces. No. 915,562; Mar. 16; Sp. p. 3937; Gaz. vol. 140; p. 679.
- Daniel, L. M., Thornton, assignor of one-half to R. M. Daniel, Lacrosse, Wash. Adding-machine attachment for type-writers. No. 925,685; June 22; Sp. p. 5411; Gaz. vol. 143; p. 947.
- Daniel, P., Austin, Tex. Non-refillable bottle. No. 934,659; Sept. 21; Sp. p. 3397; Gaz. vol. 146; p. 592.
- Daniel, P. G. E., Clevedon, and C. A. H. Bullock, London, England. Apparatus for cutting paper, &c. No. 940,862; Nov. 23; Sp. p. 5359; Gaz. vol. 148; p. 908.
- Daniel, R. M. (See Daniel, L. M., assignor.)
- Daniel, R. T., Lynchburg, Va. Hub-attaching device. No. 915,831; Mar. 23; Sp. p. 4493; Gaz. vol. 140; p. 977.
- Daniel, T. J., assignor of one-sixth to W. B. Lohrer, one-sixth to A. J. Griffith, one-sixth to L. Nichole, and one sixth to A. P. Cholet, East St. Louis, Ill. Window-bead fastener. No. 916,113; Mar. 23; Sp. p. 5018; Gaz. vol. 140; p. 889.
- Danielewicz, S., San Francisco, Cal. Filtrative inhaler. No. 923,776; June 14; Sp. p. 1478; Gaz. vol. 143; p. 226.
- Daniell, F. H. (See Hebden and Daniell.)
- Daniell, F. H., Franklin, N. H., and J. C. Hebden, Providence, R. I. Dyeing. No. 942,166; Dec. 7; Sp. p. 305; Gaz. vol. 149; p. 46.
- Daniels, A., *et al.* (See Flanagan, P. J., assignor.)
- Daniels, A. D., *et al.* (See Beaudin, E., assignor.)
- Daniels, A. O., Bellefourche, S. D. Clothes-drainer. No. 917,552; Apr. 6; Sp. p. 1161; Gaz. vol. 141; p. 202.
- Daniels, C. M., Paris, Ill. Lamp. No. 927,124; July 6; Sp. p. 890; Gaz. vol. 144; p. 143.
- Daniels, C. M., Paris, Ill. Lamp. No. 944,775; Dec. 28; Sp. p. 5917; Gaz. vol. 149; p. 1020.
- Daniels, D., Los Angeles, Cal. Heaving-plug for wells. No. 932,766; Aug. 31; Sp. p. 6650; Gaz. vol. 145; p. 1143.
- Daniels, E. N., La Fargeville, N. Y. Steering-gear for vehicles. No. 934,144; Sept. 14; Sp. p. 2411; Gaz. vol. 146; p. 395.
- Daniels, F. H., Worcester, Mass. Rail-bond. No. 914,808; Mar. 9; Sp. p. 2421; Gaz. vol. 140; p. 407.
- Daniels, F. H., Worcester, Mass. Reel for coiling flats or other rolled sections. No. 936,610; Oct. 12; Sp. p. 2134; Gaz. vol. 147; p. 354.
- Daniels, F. H., Worcester, Mass. Annealing-furnace. No. 936,611; Oct. 12; Sp. p. 2137; Gaz. vol. 147; p. 354.
- Daniels, F. H., Worcester, Mass. Treatment of steel rails. No. 941,134; Nov. 23; Sp. p. 5943; Gaz. vol. 148; p. 999.
- Daniels, F. H., Worcester, Mass. Heat-retainer. No. 941,858; Nov. 30; Sp. p. 7511; Gaz. vol. 148; p. 1263.
- Daniels, F. H., Worcester, Mass. Annealing flats and other shapes. No. 943,392; Dec. 14; Sp. p. 2918; Gaz. vol. 149; p. 491.
- Daniels, F. H., Worcester, Mass. Annealing flats. No. 943,393; Dec. 14; Sp. p. 2920; Gaz. vol. 149; p. 492.
- Daniels, F. H., Worcester, Mass. Apparatus for annealing flats and other shapes. No. 943,625; Dec. 14; Sp. p. 3435; Gaz. vol. 149; p. 573.
- Daniels, F. H., Worcester, Mass. Apparatus for annealing flats and other shapes. No. 943,626; Dec. 14; Sp. p. 3438; Gaz. vol. 149; p. 574.
- Daniels, F. H., Worcester, Mass., and F. L. Cogill and J. A. Fray, Bridgeport, Mass.; said Cogill and Fray assignors to American Steel & Wire Company, Chicago, Ill. Shearing-machine. No. 915,020; Mar. 9; Sp. p. 2804; Gaz. vol. 140; p. 474.
- Daniels, G. I. (See Clark, J. A., assignor.)
- Daniels, H. H., Winthrop, Mass., assignor to A. S. Campbell, Teaneck, N. J. Vending-machine. No. 919,543; Apr. 27; Sp. p. 5563; Gaz. vol. 141; p. 956.
- Daniels, H. M., Nazareth, Pa. Tool for forming spiral springs. No. 911,296; Feb. 2; Sp. p. 543; Gaz. vol. 139; p. 92.
- Daniels, J. T., assignor to Hanson & Van Winkle Company, Newark, N. J. Electroplating apparatus. No. 911,578; Feb. 9; Sp. p. 1086; Gaz. vol. 139; p. 212.

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- Daniels, S. D., *et al.* (See Daring, W. G., assignor.)
- Daniels, W. A., assignor to National Waterproof Film Company, Chicago, Ill. Web-coating machine. No. 939,396; Nov. 9; Sp. p. 2115; Gaz. vol. 143; p. 353.
- Danielson, A., Chicago, Ill. Spring-hinge. No. 937,053; Oct. 19; Sp. p. 3018; Gaz. vol. 147; p. 530.
- Danielson, G. F., Youngstown, Ohio. Seat for agricultural machines. No. 909,874; Jan. 19; Sp. p. 2906; Gaz. vol. 138; p. 541.
- Danielson, G. F., Youngstown, Ohio. Whiffletree. No. 916,917; Mar. 30; Sp. p. 6583; Gaz. vol. 140; p. 1173.
- Danielson, O. A., New York, N. Y. Hat-guard. No. 920,924; May 11; Sp. p. 1703; Gaz. vol. 142; p. 302.
- Danielson, W. A., Des Moines, Iowa, assignor to General Electric Company. Motor-generator set. No. 941,439; Nov. 30; Sp. p. 6611; Gaz. vol. 148; p. 1121.
- Danker, H. M., Austin, assignor of one-half to Gerwig & Iden Company, Chicago, Ill. Reel. No. 909,559; Jan. 12; Sp. p. 2276; Gaz. vol. 138; p. 403.
- Danks, S. T., Norwood, Ohio. Reducing-motion for engine-indicators. No. 923,952; June 8; Sp. p. 1877; Gaz. vol. 143; p. 313.
- Dann, A. C., and R. L. Ford, assignors to Ohio Cultivator Company, Bellevue, Ohio. Tongue-truck. No. 919,325; Apr. 27; Sp. p. 5078; Gaz. vol. 141; p. 881.
- Dannecker, E. (See Carlson, A. E., assignor.)
- Dannenberg, F. (See Mallonee, Dannenberg, and Brehm.)
- Dannenberg, F. H. (See Condell, Beck, and Dannenberg.)
- Danner, E. (See Keith and Danner.)
- Dannheiser, J., San Francisco, Cal. Vertical-filing system. No. 923,412; June 1; Sp. p. 687; Gaz. vol. 143; p. 100.
- Dannheiser, J., San Francisco, Cal. Filing-cabinet. No. 929,566; July 27; Sp. p. 5901; Gaz. vol. 144; p. 1037.
- Dannheiser, J., San Francisco, Cal. Filing-cabinet. No. 941,133; Nov. 23; Sp. p. 5941; Gaz. vol. 148; p. 999.
- Danquard, T., assignor to Autopiano Co., New York, N. Y. Double-scale pneumatic musical instrument. No. 933,366; Sept. 7; Sp. p. 754; Gaz. vol. 146; p. 117.
- Dansey, Z. T., Topeka, Kans. Safety device for elevators. No. 944,076; Dec. 21; Sp. p. 4393; Gaz. vol. 149; p. 757.
- Danver, J. H., Beaver, and W. H. Lose, Zelenople, Pa. Molding apparatus. No. 924,436; June 8; Sp. p. 2891; Gaz. vol. 143; p. 473.
- Danver, J. H., Beaver, and W. H. Lose, Zelenople, Pa. Forming patterns for hollow cast ware. No. 925,306; June 15; Sp. p. 4666; Gaz. vol. 143; p. 797.
- Danver, J. H., Beaver, and W. H. Lose, Zelenople, Pa. Apparatus for forming patterns for hollow cast ware. No. 925,307; June 15; Sp. p. 4669; Gaz. vol. 143; p. 797.
- Danver, J. H., Beaver, and W. H. Lose, Zelenople, Pa. Forming guides for molding apparatus. No. 925,686; June 22; Sp. p. 5417; Gaz. vol. 143; p. 948.
- Danver, J. H., Beaver, and W. H. Lose, Zelenople, Pa. Guiding device for molding apparatus. No. 925,687; June 22; Sp. p. 5419; Gaz. vol. 143; p. 948.
- Danziger, J., Chicago, Ill., assignor to Savespace Garment Holder Co., Des Moines, Iowa. Display-rack. No. 921,956; May 18; Sp. p. 3845; Gaz. vol. 142; p. 673.
- Dargent, C., New York, N. Y. Coupling for floats. No. 939,397; Nov. 9; Sp. p. 2118; Gaz. vol. 148; p. 353.
- Dargin, E. P., Denver, Colo. Rail for monorail-railway systems. No. 933,294; Sept. 7; Sp. p. 597; Gaz. vol. 146; p. 92.
- Daring, W. G., assignor of one-third to C. B. Henry and one-third to S. D. Daniels, Pittsburg, Pa. Automatic safety appliance for railways. No. 941,233; Nov. 23; Sp. p. 6155; Gaz. vol. 148; p. 1032.
- Dark, F. (See Wicke and Dark.)
- Darke, J. M., Lynn, Mass., assignor to General Electric Company. Tool-steel. No. 919,544; Apr. 27; Sp. p. 5567; Gaz. vol. 141; p. 956.
- Darley, J. W., Jr., Baltimore, Md. Pedal for automatic pianos. No. 936,763; Oct. 12; Sp. p. 2437; Gaz. vol. 147; p. 405.
- Darling, H. M. (See MacCarthy and Darling.)
- Darling, H. M., and W. Runge, assignors to Seneca Falls Manufacturing Company, Seneca Falls, N. Y. Gearing for machine-tools. No. 917,015; Apr. 6; Sp. p. 102; Gaz. vol. 141; p. 22.
- Darling, J., Chicago, Pa. Toy pistol. No. 915,563; Mar. 16; Sp. p. 3938; Gaz. vol. 140; p. 680.
- Darling, J., Chicago, Pa. Curtain-fixture. No. 932,252; Aug. 24; Sp. p. 5571; Gaz. vol. 145; p. 949.
- Darling, J., Williamsport, Ind. Staple for fence-posts. No. 941,978; Nov. 30; Sp. p. 7741; Gaz. vol. 148; p. 1304.
- Darling, J., Chicago, Pa., assignor to Smokeless Heat & Power Company, Cleveland, Ohio. Gas-generator. No. 933,828; Sept. 14; Sp. p. 1762; Gaz. vol. 146; p. 292.
- Darling, J., Chicago, Pa., assignor to Smokeless Heat & Power Company, Cleveland, Ohio. Liquid-fuel burner. No. 933,829; Sept. 14; Sp. p. 1766; Gaz. vol. 146; p. 293.
- Darling, J., Chicago, and J. W. Culbertson, Knox, Pa. Reversing-pulley mechanism. No. 915,564; Mar. 16; Sp. p. 3940; Gaz. vol. 140; p. 680.
- Darling, P. G. (See Blanchard and Darling.)
- Darlington, F., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Voltage-regulator. No. 920,925; May 11; Sp. p. 1705; Gaz. vol. 142; p. 303.
- Darlington, F., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Movable terminal for voltage-regulators. No. 920,926; May 11; Sp. p. 1707; Gaz. vol. 142; p. 303.
- Darlington, F., Great Barrington, Mass., assignor to Westinghouse Electric & Manufacturing Company. Controller for electrical apparatus. No. 921,642; May 11; Sp. p. 3189; Gaz. vol. 142; p. 543.
- Darlington, P. J., New Britain, Conn. Rotary motor. No. 914,022; Mar. 2; Sp. p. 806; Gaz. vol. 140; p. 123.
- Darlington, P. J., Plainville, Conn. Fluid-pressure motor. No. 919,326; Apr. 27; Sp. p. 5080; Gaz. vol. 141; p. 882.
- Darlington, P. J., Pittsburg, Pa. Rotary tube-cleaner. No. 942,312; Dec. 7; Sp. p. 607; Gaz. vol. 149; p. 96.
- Darmac Commutator Company. (See MacCarthy and Darling, assignors.)
- Darré, B. R. G., New York, N. Y. Automobile-tire. No. 916,678; Mar. 30; Sp. p. 6136; Gaz. vol. 140; p. 1099.
- Darrow, E. E. (See Tornwall and Darrow.)
- Darrow, G. L., assignor of one-half to W. C. Grant, Ogdensburg, N. Y. Washbench. No. 932,683; Aug. 31; Sp. p. 6476; Gaz. vol. 145; p. 1116.
- Darrow, H. W., assignor to Paragon Mfg. Co., Chicago, Ill. Gearing for washing-machines. No. 923,819; June 8; Sp. p. 1636; Gaz. vol. 143; p. 271.
- Darrow, H. W., assignor to Paragon Mfg. Co., Chicago, Ill. Washing-machine. No. 933,295; Sept. 7; Sp. p. 598; Gaz. vol. 146; p. 92.
- Darrow, K. A., Chicago, Ill. Ironing-table. No. 916,849; Mar. 30; Sp. p. 6443; Gaz. vol. 140; p. 1151.
- Darrow, W. E., Sutter Creek, Cal. Concentrating apparatus. No. 908,966; Jan. 5; Sp. p. 1084; Gaz. vol. 138; p. 175.
- Dart, S. E., South Manchester, Conn. Paper-machine. No. 924,643; June 15; Sp. p. 3338; Gaz. vol. 143; p. 575.
- Darter, R. L., Murphysboro, Ill. Combination level, square, and tape-measure. No. 913,703; Mar. 2; Sp. p. 53; Gaz. vol. 140; p. 11.
- Darvas, A., Budapest, Austria-Hungary. Machine for making paper bags and the like. No. 931,041; Aug. 17; Sp. p. 2972; Gaz. vol. 145; p. 525.
- Darwin, H., Cambridge, England. Measuring instrument. No. 910,509; Jan. 26; Sp. p. 4262; Gaz. vol. 138; p. 783.
- Darwood, H. L., Philadelphia, Pa. Pump for drawing and measuring liquids. No. 923,031; July 13; Sp. p. 2760; Gaz. vol. 144; p. 471.
- Dash, J. H. (See Bible, F. O., assignor.)
- Dasher, J. W., Glennville, Ga. Wrecking-car. No. 933,631; Sept. 7; Sp. p. 1365; Gaz. vol. 146; p. 204.
- Dath, C. E., Denver, Colo., assignor to Double Body Bolster Company. Metallic end frame for car-bodies. No. 917,716; Apr. 6; Sp. p. 1468; Gaz. vol. 141; p. 257.
- Dath, E., Newton, Mass. Composition for dressing textile stock. No. 941,361; Nov. 30; Sp. p. 6429; Gaz. vol. 148; p. 1095.
- Datter, O., Elizabeth, N. J. Curtain-fixture. No. 924,892; June 15; Sp. p. 3866; Gaz. vol. 143; p. 659.
- Datz Manufacturing Company. (See Garrett, C. A., assignor.)
- Daub, C., New York, N. Y. Wind-motor. No. 932,253; Aug. 24; Sp. p. 5573; Gaz. vol. 145; p. 949.
- Daubenspeck, J. A., Amos, W. Va. Lubricator for engine-cylinders. No. 928,906; July 20; Sp. p. 4565; Gaz. vol. 144; p. 795.
- Daubenspeck, R. P., assignor of one-half to R. A. Orbison, Huntingdon, Pa. Clock-controlled damper-controlling mechanism. No. 937,569; Oct. 19; Sp. p. 4123; Gaz. vol. 147; p. 701.
- Dauber, C. W. (See Davy and Dauber.)
- Daubert H. J., Tamaqua, Pa. Car-coupling. No. 944,953; Dec. 28; Sp. p. 6281; Gaz. vol. 149; p. 1079.
- Daubert, J. G., Loudonville, Ohio. Cushion-heel for shoes. No. 937,425; Oct. 19; Sp. p. 3827; Gaz. vol. 147; p. 652.
- Daudelin, L., *et al.* (See Augustin, L., assignor.)
- Daudt, D. S., North Plainfield, N. J. Catamenial appliance. No. 924,644; June 15; Sp. p. 3340; Gaz. vol. 143; p. 575.
- Daughdrill, K. W., Oneonta, Ala. Wheel-locking attachment for tram-cars. No. 917,553; Apr. 6; Sp. p. 1162; Gaz. vol. 141; p. 203.
- Daugherty, J. D., Kittanning, Pa., assignor to Union Typewriter Company. Type-writing machine. No. 915,662; Mar. 16; Sp. p. 4156; Gaz. vol. 140; p. 717.
- Daugherty, W. B., San Luis Obispo, Cal. Brace for wrench-jacks. No. 917,928; Apr. 13; Sp. p. 1954; Gaz. vol. 141; p. 355.
- Daun, A., Pittsburg, Pa. Folding umbrella. No. 910,462; Jan. 19; Sp. p. 4147; Gaz. vol. 138; p. 744.



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- Davenport, A. B., Jr., and C. Reigart, assignors to William Wharton, Jr., & Company, Incorporated, Philadelphia, Pa. Actuating and locking mechanism for tongue-switches. No. 922,396; May 18; Sp. p. 4721; Gaz. vol. 142; p. 818.
- Davenport, B. R., Philadelphia, Pa., assignor to Electric Couch Company. Electrical medical appliance. No. 943,918; Dec. 21; Sp. p. 4062; Gaz. vol. 149; p. 703.
- Davenport, C. B., Fort Lupton, Colo. Buckle. No. 928,944; July 27; Sp. p. 4638; Gaz. vol. 144; p. 832.
- Davenport, F. B., *et al.* (See Cook, R., assignor.)
- Davenport, F. S., Atlanta, Ga. Signaling means for telephone systems. No. 923,499; June 1; Sp. p. 856; Gaz. vol. 143; p. 130.
- Davenport, H. A., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 930,272; Aug. 3; Sp. p. 1317; Gaz. vol. 145; p. 218.
- Davenport, H. A., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing pad. No. 942,133; Dec. 7; Sp. p. 229; Gaz. vol. 149; p. 35.
- Davenport, H. F., assignor to Brunswick-Balke-Collender Company, Chicago, Ill. Convertible pocket-carom billiard-table. No. 923,249; June 1; Sp. p. 267; Gaz. vol. 143; p. 44.
- Davenport, I. L., Camden, N. J., assignor of one-half to F. A. Cavanagh, Ashbourne, Pa. Hand-truck. No. 910,360; Jan. 19; Sp. p. 3940; Gaz. vol. 138; p. 709.
- Davenport, I. L., Camden, N. J., assignor of one-half to F. A. Cavanagh, Ashbourne, Pa. Measuring instrument. No. 925,082; June 15; Sp. p. 4247; Gaz. vol. 143; p. 723.
- Davenport, J. D. (See Pride and Davenport.)
- Davenport, R. P., *et al.* (See Lewis, S. T., assignor.)
- Davey, J. F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pegging-machine. No. 931,042; Aug. 17; Sp. p. 2975; Gaz. vol. 145; p. 526.
- Davey, T. M., Buffalo, N. Y. Detachable tread for automobile-tires. No. 938,371; Oct. 26; Sp. p. 5825; Gaz. vol. 147; p. 989.
- David-Anderson, A. (See Rostad, A., assignor.)
- David Bradley Manufacturing Company. (See Christensen, C., assignor.)
- David Bradley Manufacturing Company. (See Christensen and Noonen, assignors.)
- David Bradley Manufacturing Company. (See Paul, W. A., assignor.)
- David, C. C., *et al.* (See Waddell, T. J., assignor.) (Reissue.)
- David & Cie., J. (See David, J., assignor.)
- David Craig Company. (See Craig, D., assignor.)
- David, J., assignor to J. David & Cie., Geneva, Switzerland. Motor-cycle. No. 926,390; June 29; Sp. p. 6905; Gaz. vol. 143; p. 1215.
- David Lupton's Sons Company. (See Brodgen, J., assignor.)
- David, O., New York, N. Y. Vehicle-starter. No. 913,625; Feb. 23; Sp. p. 5386; Gaz. vol. 139; p. 952.
- David, S. S. (See Webb, E. W., assignor.)
- Davidge, J. M., *et al.* (See Evans, L. J., assignor.)
- Davids, W. C., Rutherford, N. J. Clothes-drier. No. 931,917; Aug. 24; Sp. p. 4883; Gaz. vol. 145; p. 837.
- Davidsen, M. J., Paris, France. Belt controller and tightener. No. 936,094; Oct. 5; Sp. p. 1041; Gaz. vol. 147; p. 158.
- Davidson, A. and D., Sioux City, Iowa. Umbrella show-case and stand. No. 919,545; Apr. 27; Sp. p. 5569; Gaz. vol. 141; p. 956.
- Davidson, A. M. (See Davidson, G. A., assignor.)
- Davidson, C. E., Greenville, Ill. Ladder attachment. No. 916,535; Mar. 30; Sp. p. 5768; Gaz. vol. 140; p. 1053.
- Davidson, C. L. (See Ward and Davidson.)
- Davidson, D. (See Davidson, A. and D.)
- Davidson, E., Danville, Ill. Shade and curtain hanger. No. 912,084; Feb. 9; Sp. p. 2174; Gaz. vol. 139; p. 376.
- Davidson, F. B., Marseilles, Ill., assignor to Howe and Davidson Company, East Orange, N. J. Container. No. 910,180; Jan. 19; Sp. p. 3530; Gaz. vol. 138; p. 643.
- Davidson, F. B., Marseilles, Ill., assignor to Howe and Davidson Company, East Orange, N. J. Sheet-feeding device. No. 928,637; July 20; Sp. p. 4030; Gaz. vol. 144; p. 702.
- Davidson, G. A., Dayton, Ohio, assignor to A. M. Davidson, Chicago, Ill. Separating milk and churning butter. No. 909,763; Jan. 12; Sp. p. 2679; Gaz. vol. 138; p. 473.
- Davidson, G. R., Lenox, Mich. Grain-cleaner. No. 917,016; Apr. 6; Sp. p. 113; Gaz. vol. 141; p. 22.
- Davidson, H. C., Springfield, assignor, by mesne assignments, to Coffield Motor Washer Co., Dayton, Ohio. Water-motor. No. 926,644; June 29; Sp. p. 7368; Gaz. vol. 143; p. 1300.
- Davidson, J., Norwich, Kans. Rail tie and brace. No. 917,554; Apr. 6; Sp. p. 1166; Gaz. vol. 141; p. 203.
- Davidson, J. C., *et al.* (See McKay, J. R., assignor.)
- Davidson, J. L., Griffin, Ga., assignor to Crompton & Knowles Loom Works. Terry-motion for looms. No. 936,310; Oct. 12; Sp. p. 1462; Gaz. vol. 147; p. 253.
- Davidson, J. M., Roxabell, Ohio. Railway-tie. No. 937,054; Oct. 19; Sp. p. 3020; Gaz. vol. 147; p. 530.
- Davidson, J. W. (See Yates, G. M., assignor.)
- Davidson, L. C., Calgary, Alberta, Canada, assignor to Big 4 Manufacturing Company, Chicago, Ill. Step-by-step motor. No. 934,889; Sept. 21; Sp. p. 3842; Gaz. vol. 146; p. 667.
- Davidson, L. C., assignor to Big 4 Manufacturing Company, Chicago, Ill. Load-gripping mechanism for conveyers. No. 934,890; Sept. 21; Sp. p. 3845; Gaz. vol. 146; p. 668.
- Davidson, L. C., assignor to Big 4 Manufacturing Company, Chicago, Ill. Frame for display sheets or curtains. No. 941,622; Nov. 30; Sp. p. 6983; Gaz. vol. 148; p. 1181.
- Davidson, L. T. (See Whitten, L. W., assignor.)
- Davidson, M., Cambridge, Mass. Coffee-pot. No. 929,754; Aug. 3; Sp. p. 258; Gaz. vol. 145; p. 44.
- Davidson, R. J., Hillburn, N. Y., assignor to Standard Equipment Company, Mahwah, N. J. Manufacture of slide-plates for railway-switches. No. 941,623; Nov. 30; Sp. p. 6985; Gaz. vol. 148; p. 1182.
- Davidson Rubber Company. (See Upton, H. J., assignor.)
- Davidson, S. C., Belfast, Ireland. Apparatus for drying tea, coffee, grain, or other substances. No. 921,206; May 11; Sp. p. 2272; Gaz. vol. 142; p. 399.
- Davidson, S. C., Belfast, Ireland. Apparatus for drying tea, grain, or other substances. No. 940,237; Nov. 16; Sp. p. 3960; Gaz. vol. 148; p. 674.
- Davidson, S. C., Belfast, Ireland, assignor, by mesne assignments, to American Blower Company, Green Island, N. Y. Fan-casing and the pedestal or bracket which carries the bearings for the fan-wheel shaft. No. 929,567; July 27; Sp. p. 5903; Gaz. vol. 144; p. 1037.
- Davidson, W. H., Boston, Mass. Strap-fastener, &c. No. 918,829; Apr. 20; Sp. p. 3887; Gaz. vol. 141; p. 685.
- Davidson, W. L., Kearney, Nebr. Cement block for wall structure. No. 941,624; Nov. 30; Sp. p. 6987; Gaz. vol. 148; p. 1182.
- Davidson, W. S., Nashville, Tenn. Canopy-frame having doors. No. 941,765; Nov. 30; Sp. p. 7303; Gaz. vol. 148; p. 1230.
- Davie, R. C., Woonsocket, R. I. Adjustable curtain-hanging fixture. No. 923,630; June 1; Sp. p. 1157; Gaz. vol. 143; p. 177.
- Davies, A. H., Canton, Ohio. Self-heated sad-iron. No. 931,686; Aug. 17; Sp. p. 4323; Gaz. vol. 145; p. 738.
- Davies Automatic Shear Company. (See Davies, F. D., assignor.)
- Davies, C. E., Ottawa, Ontario, Canada. Electrical circuit breaking and making device for telegraphic purposes. No. 916,918; Mar. 30; Sp. p. 6584; Gaz. vol. 140; p. 1174.
- Davies, C. E., Ottawa, Ontario, Canada. Telegraph-repeater. No. 917,263; Apr. 6; Sp. p. 627; Gaz. vol. 141; p. 107.
- Davies Car Wheel & Machine Company. (See Davies, J. R., assignor.)
- Davies, D. G., Coeur d'Alene, Idaho. Electric indicator and signal. No. 934,713; Sept. 21; Sp. p. 3500; Gaz. vol. 146; p. 609.
- Davies, D. L., Nelson, Nebr. Balance-staff-pivot-truing device. No. 934,429; Sept. 21; Sp. p. 2950; Gaz. vol. 146; p. 514.
- Davies, F. D., Brooklyn, assignor to Davies Automatic Shear Company, New York, N. Y. Shears or the like. No. 938,042; Oct. 26; Sp. p. 5092; Gaz. vol. 147; p. 876.
- Davies, H. E., Weehawken Heights, N. J. Arc-lamp. No. 934,796; Sept. 21; Sp. p. 3670; Gaz. vol. 146; p. 637.
- Davies, H. P., Scranton, Pa. Nut-lock. No. 939,124; Nov. 2; Sp. p. 1430; Gaz. vol. 148; p. 233.
- Davies, J. R., Waukegan, assignor to Davies Car Wheel & Machine Company, Chicago, Ill. Apparatus for making cores. No. 913,270; Feb. 23; Sp. p. 4635; Gaz. vol. 139; p. 831.
- Davies, J. R., Waukegan, assignor to Davies Car Wheel & Machine Company, Chicago, Ill. Metallic railway-tie. No. 932,002; Aug. 24; Sp. p. 5060; Gaz. vol. 145; p. 866.
- Davies, L. W. (See Crawford, Beck, and Davies.)
- Davies, R. E., St. Joseph, Mo. Car-stop. No. 925,875; June 22; Sp. p. 5850; Gaz. vol. 143; p. 1011.
- Davies, R. W. (See Strawn and Davies.)
- Davies, T. M. and W., assignors to Stepney Spare Motor Wheel, Limited, Llanelly, England. Means for preventing an auxiliary wheel creeping. No. 913,704; Mar. 2; Sp. p. 54; Gaz. vol. 140; p. 11.
- Davies, W. (See Davies, T. M. and W.)
- Davies, W. E., Butte, Mont. File for papers. No. 921,957; May 18; Sp. p. 3847; Gaz. vol. 142; p. 673.

*Alphabetical list of patentees—Continued.*

- Davies, W. P., Cincinnati, Ohio. Wheel. No. 940,584; Nov. 16; Sp. p. 4750; Gaz. vol. 148; p. 791.
- Davin, J. J., Washington, Pa. Line-cutter. No. 917,555; Apr. 6; Sp. p. 1166; Gaz. vol. 141; p. 203.
- Davis, A. (See Cunningham, E. A., assignor.)
- Davis, A., Washington, Ind. Extensible wagon-reach. No. 926,855; July 6; Sp. p. 322; Gaz. vol. 144; p. 51.
- Davis, A., Millinocket, Me. Drilling-machine table. No. 935,470; Sept. 28; Sp. p. 5005; Gaz. vol. 146; p. 884.
- Davis, A., East Orange, N. J. Acetylene generating apparatus. No. 940,437; Nov. 16; Sp. p. 4437; Gaz. vol. 148; p. 742.
- Davis, A., Chicago, Ill., assignor to Davis Acetylene Company, Elkhart, Ind. Carbide-feeding device. No. 928,853; July 20; Sp. p. 4440; Gaz. vol. 144; p. 772.
- Davis, A. A., Hammond, Ind. Car-door. No. 927,332; July 6; Sp. p. 1271; Gaz. vol. 144; p. 210.
- Davis, A. A., assignor of one-half to B. Grieshaber, Chicago, Ill. Spark-plug. No. 919,425; Apr. 27; Sp. p. 5296; Gaz. vol. 141; p. 916.
- Davis, A. C., Mulberry, Fla. Garment-supporter. No. 926,856; July 6; Sp. p. 323; Gaz. vol. 144; p. 51.
- Davis, A. C., Battle Ground, Ind. Window and door screen. No. 928,366; July 20; Sp. p. 3483; Gaz. vol. 144; p. 615.
- Davis, A. D., and W. A. Thompson, Cleveland, N. C. Wrench. No. 943,771; Dec. 21; Sp. p. 3745; Gaz. vol. 149; p. 652.
- Davis, A. E., Johannesburg, Transvaal. Track for single-rail vehicles. No. 928,184; July 13; Sp. p. 3065; Gaz. vol. 144; p. 522.
- Davis, A. E., assignor of three-fifths to R. Meyer, Johannesburg, Transvaal, F. H. Medhurst, Westminster Chambers, London, England, and J. E. Ferrar, Johannesburg, Transvaal. Transporting apparatus for mines. No. 918,661; Apr. 20; Sp. p. 3527; Gaz. vol. 141; p. 621.
- Davis, A. G., Schenectady, N. Y., assignor to General Electric Company. Block-signal system. No. 927,404; July 6; Sp. p. 1406; Gaz. vol. 144; p. 233.
- Davis, A. I., Lowell, Mass., assignor to American Mason Safety Tread Company, Saco, Me. Safety device for treads of steps. No. 942,031; Nov. 30; Sp. p. 7833; Gaz. vol. 148; p. 1320.
- Davis, A. J. (See Davis, T., assignor.)
- Davis, A. J., Toledo, Ohio. Adjustable seat or stool. No. 916,536; Mar. 30; Sp. p. 5870; Gaz. vol. 140; p. 1053.
- Davis, A. N., New York, assignor to C. K. Volckening, Brooklyn, N. Y. Mounting for bottle-washer brushes. No. 912,085; Feb. 9; Sp. p. 2175; Gaz. vol. 139; p. 377.
- Davis, A. N., New York, assignor to C. K. Volckening, Brooklyn, N. Y. Automatic window-lock. No. 912,817; Feb. 16; Sp. p. 3746; Gaz. vol. 139; p. 660.
- Davis, A. N., assignor to C. K. Volckening, Brooklyn, N. Y. Mounting for bottle-washing brushes. No. 930,049; Aug. 3; Sp. p. 904; Gaz. vol. 145; p. 145.
- Davis, A. R., Winnipeg, Manitoba, Canada. Combination pan-lifter and lid-holder. No. 917,929; Apr. 13; Sp. p. 1956; Gaz. vol. 141; p. 355.
- Davis, A. R., Ball, La. Combined match and cigarette box. No. 944,954; Dec. 28; Sp. p. 6283; Gaz. vol. 149; p. 1080.
- Davis, A. V., Pasadena, Cal. Bench-clamp. No. 919,546; Apr. 27; Sp. p. 5570; Gaz. vol. 141; p. 957.
- Davis, A. V., Topeka, Kans. Grip-nut. No. 921,369; May 11; Sp. p. 2635; Gaz. vol. 142; p. 453.
- Davis Acetylene Company. (See Davis, A., assignor.)
- Davis, B. H., and C. B. Ross, assignors to Safety Emery Wheel Company, Springfield, Ohio. Grinding-machine. No. 932,603; Aug. 31; Sp. p. 6301; Gaz. vol. 145; p. 1089.
- Davis, B. M., Morris, assignor to J. G. Coleman, Chicago, Ill. Discharge mechanism for peanut-vending machines. No. 911,945; Feb. 9; Sp. p. 1797; Gaz. vol. 139; p. 331.
- Davis, B. M., Morris, assignor to J. G. Coleman, Chicago, Ill. Vending-machine. No. 929,568; July 27; Sp. p. 5905; Gaz. vol. 144; p. 1038.
- Davis, B. M., Morris, assignor to J. G. Coleman, Chicago, Ill. Casing for vending-machines. No. 930,331; Aug. 3; Sp. p. 1427; Gaz. vol. 145; p. 237.
- Davis, B. M., Morris, assignor to J. G. Coleman, Chicago, Ill. Peanut-feeding mechanism. No. 930,736; Aug. 10; Sp. p. 2286; Gaz. vol. 145; p. 397.
- Davis, B. M., Morris, assignor to J. G. Coleman, Chicago, Ill. Coin-controlled mechanism. No. 931,574; Aug. 17; Sp. p. 4085; Gaz. vol. 145; p. 704.
- Davis, B. N., New Orleans, La. Safety-adjuster for ignition-timers. No. 921,958; May 18; Sp. p. 3848; Gaz. vol. 142; p. 674.
- Davis-Birely Table Co. (See Birely, C., assignor.)
- Davis-Bournonville Acetylene Development Company. (See Peterson and Bournonville, assignors.)
- Davis, C., London, England. Lamp for motor road-vehicles. No. 912,232; Feb. 9; Sp. p. 2439; Gaz. vol. 139; p. 421.
- Davis, C., London, England. Means for use with balloons and other air vessels for indicating air-currents. No. 921,515; May 11; Sp. p. 2923; Gaz. vol. 142; p. 502.
- Davis, C., U. S. Navy. Treating steel plates. No. 935,353; Sept. 28; Sp. p. 4803; Gaz. vol. 146; p. 849.
- Davis, C., U. S. Navy. Attachment for projectiles. No. 942,617; Dec. 7; Sp. p. 1220; Gaz. vol. 149; p. 199.
- Davis, C., U. S. Navy, assignor, by mesne assignments, to National Torpedo Company, New York, N. Y. Firing means for torpedoes. No. 914,871; Mar. 2; Sp. p. 1535; Gaz. vol. 140; p. 237.
- Davis, C. B., Manchester, Va. Drenching-bottle. No. 942,057; Dec. 7; Sp. p. 30; Gaz. vol. 149; p. 7.
- Davis, C. B., Manchester, Va., assignor of one-half to F. Hall, Ridgefield, N. J., and one-sixteenth to J. W. Broski, Richmond, Va. Paper box. No. 940,634; Nov. 16; Sp. p. 4848; Gaz. vol. 148; p. 807.
- Davis, C. F., Providence, R. I., assignor to Automatic Envelope Sealing and Stamping Machine Company. Machine for sealing and stamping envelopes. No. 930,737; Aug. 10; Sp. p. 2283; Gaz. vol. 145; p. 398.
- Davis, C. F., and W. N. Parsons, assignors to W. P. Davis Machine Co., Rochester, N. Y. Lathe. No. 921,807; May 18; Sp. p. 3527; Gaz. vol. 142; p. 626.
- Davis, C. G., Manistee, Mich. Coupling-link for fish-hooks. No. 918,017; Apr. 13; Sp. p. 2152; Gaz. vol. 141; p. 387.
- Davis, C. H., Milwaukee, Wis. Mop. No. 925,758; June 22; Sp. p. 5603; Gaz. vol. 143; p. 972.
- Davis, C. M., administratrix. (See Evans and Taylor.)
- Davis, C. S. (See Phillips, E., assignor.)
- Davis, C. S., Oakland, Md. Stove. No. 934,891; Sept. 21; Sp. p. 3847; Gaz. vol. 146; p. 668.
- Davis, C. W., Donaldson, Minn. Hay-stacker. No. 914,388; Mar. 9; Sp. p. 1575; Gaz. vol. 140; p. 267.
- Davis, C. W., Edgeworth, Pa. Junction-box. No. 916,537; Mar. 30; Sp. p. 5871; Gaz. vol. 140; p. 1054.
- Davis, C. W., Edgeworth, Pa. Terminal for electric cables. No. 919,830; Apr. 27; Sp. p. 6173; Gaz. vol. 141; p. 1053.
- Davis, C. W., Edgeworth, Pa. Terminal for electrical cables. No. 941,860; Nov. 30; Sp. p. 7514; Gaz. vol. 148; p. 1264.
- Davis, C. W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburg, Pa. Terminal for electric cables. No. 926,857; July 6; Sp. p. 324; Gaz. vol. 144; p. 52.
- Davis, C. W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburg, Pa. Terminal for electric cables. No. 941,859; Nov. 30; Sp. p. 7513; Gaz. vol. 148; p. 1263.
- Davis, C. Z. (See Perkins and Davis.)
- Davis, C. Z., assignor to Cyphers Incubator Company, Buffalo, N. Y. Lamp-burner attachment. No. 912,818; Feb. 16; Sp. p. 3748; Gaz. vol. 139; p. 660.
- Davis, D., Wichita, Kans. Vehicle-axle. No. 910,510; Jan. 26; Sp. p. 4264; Gaz. vol. 138; p. 783.
- Davis, D., and A. O. Berry, assignors to Benjamin Eastwood Company, Paterson, N. J. Singeing-machine. No. 943,657; Dec. 21; Sp. p. 3529; Gaz. vol. 149; p. 614.
- Davis, D. G., Punxsutawney, Pa. Valve. No. 923,413; June 1; Sp. p. 689; Gaz. vol. 143; p. 101.
- Davis, D. O., New York, N. Y. Window-ventilator. No. 937,205; Oct. 19; Sp. p. 3334; Gaz. vol. 147; p. 580.
- Davis, D. R., Dover, Del. Spring draft appliance. No. 923,953; June 8; Sp. p. 1881; Gaz. vol. 143; p. 314.
- Davis, E., *et al.* (See Lore, R. J., assignor.)
- Davis, E., Chicago, Ill. Book. No. 914,704; Mar. 9; Sp. p. 2216; Gaz. vol. 140; p. 372.
- Davis, E., Boston, assignor to C. F. Brown, trustee, Reading, Mass. Dispensing apparatus. No. 911,946; Feb. 9; Sp. p. 1798; Gaz. vol. 139; p. 331.
- Davis, E. and E. E., Sugargrove, Pa. Tenon-forming machine for wheel-spokes. No. 941,625; Nov. 30; Sp. p. 6988; Gaz. vol. 148; p. 1182.
- Davis, E. E. (See Davis, E. and E. E.)
- Davis, E. F., Corning, N. Y. Railway-tie. No. 935,966; Oct. 5; Sp. p. 775; Gaz. vol. 147; p. 116.
- Davis, E. H., *et al.* (See Regendorf, F., assignor.)
- Davis, E. K., Philadelphia, Pa. Self-locking box. No. 914,809; Mar. 9; Sp. p. 2422; Gaz. vol. 140; p. 407.
- Davis, E. W., Chicago, Ill. Moving-picture toy. No. 931,184; Aug. 17; Sp. p. 3294; Gaz. vol. 145; p. 574.
- Davis, F., Luton, Iowa. Wire-stretcher. No. 923,817; June 8; Sp. p. 1633; Gaz. vol. 143; p. 270.
- Davis, F. A. W., Indianapolis, Ind. Building-block. No. 917,980; Apr. 13; Sp. p. 1956; Gaz. vol. 141; p. 355.
- Davis, F. H., Chicago, Ill. Tire-protector. No. 926,104; June 29; Sp. p. 6320; Gaz. vol. 143; p. 1122.
- Davis & Furber Machine Company. (See Thiel, C. P., assignor.)
- Davis, G., Doran, Va. Envelop. No. 914,337; Mar. 2; Sp. p. 1446; Gaz. vol. 140; p. 225.
- Davis, G., North Salem, assignor of one-half to W. E. Kurtz, Indianapolis, Ind. Loading and unloading mechanism. No. 923,028; May 25; Sp. p. 6036; Gaz. vol. 142; p. 1051.
- Davis, G. A., San Antonio, Tex. Railway-crossing signal. No. 914,389; Mar. 9; Sp. p. 1576; Gaz. vol. 140; p. 268.
- Davis, G. A., San Antonio, Tex. Trip and signal device. No. 930,356; Aug. 10; Sp. p. 1479; Gaz. vol. 145; p. 270.
- Davis, G. C., *et al.* (See Matsek, J., assignor.)



*Alphabetical list of patentees—Continued.*

- Davis, G. E., McKees Rocks, Pa. Damper for gas and gasoline stoves. No. 913,626; Feb. 23; Sp. p. 5390; Gaz. vol. 139; p. 952.
- Davis, G. G., Indianapolis, Ind. Uncoupling-chain for car-couplings. No. 942,134; Dec. 7; Sp. p. 232; Gaz. vol. 149; p. 35.
- Davis, G. H., West Orange, N. J. Combined electrical piano playing and recording attachment. No. 923,147; June 1; Sp. p. 53; Gaz. vol. 143; p. 9.
- Davis, G. H., West Orange, N. J. Friction-shoe for musical-instrument playing mechanisms. No. 923,148; June 1; Sp. p. 63; Gaz. vol. 143; p. 10.
- Davis, G. H., West Orange, N. J. Pedal mechanism. No. 935,967; Oct. 5; Sp. p. 777; Gaz. vol. 147; p. 116.
- Davis, G. H., West Orange, N. J. Contact device for self-playing musical instruments and other apparatus. No. 942,550; Dec. 7; Sp. p. 1093; Gaz. vol. 149; p. 177.
- Davis, G. H., Llewellyn Park, West Orange, N. J. Electrical musical instrument. No. 931,281; Aug. 17; Sp. p. 3517; Gaz. vol. 145; p. 608.
- Davis, G. H., assignor to Brown Davis Hardware Company, Worcester, Mass. Hinge. No. 923,250; June 1; Sp. p. 270; Gaz. vol. 143; p. 45.
- Davis, G. W., Chicago, Ill. Coat. No. 934,049; Sept. 14; Sp. p. 2191; Gaz. vol. 146; p. 362.
- Davis, G. W., New Albany, Ind. Lathe. No. 935,143; Sept. 28; Sp. p. 4371; Gaz. vol. 146; p. 780.
- Davis, H., Addy, Wash. Automatic signaling and train-stopping device. No. 918,018; Apr. 13; Sp. p. 2153; Gaz. vol. 141; p. 387.
- Davis, H. A., Benton Harbor, Mich. Self-rolling sleeve. No. 917,931; Apr. 13; Sp. p. 1957; Gaz. vol. 141; p. 355.
- Davis, H. A., Gilmanton, N. H. Washer. No. 938,302; Oct. 26; Sp. p. 5607; Gaz. vol. 147; p. 965.
- Davis, H. C., Philadelphia, Pa. Ship. No. 938,645; Nov. 2; Sp. p. 439; Gaz. vol. 148; p. 68.
- Davis, H. G., East Lake, Ala. Type-writing machine. No. 928,945; July 27; Sp. p. 4639; Gaz. vol. 144; p. 833.
- Davis, H. O. (See Dean, F., assignor.)
- Davis, H. P., New Middletown, Ohio. Mail-box. No. 923,818; June 8; Sp. p. 1634; Gaz. vol. 143; p. 270.
- Davis, H. P., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-clamp. No. 931,390; Aug. 17; Sp. p. 3751; Gaz. vol. 145; p. 647.
- Davis, H. P., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-clamp. No. 931,391; Aug. 17; Sp. p. 3752; Gaz. vol. 145; p. 647.
- Davis, H. P., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Trolley-hanger. No. 931,392; Aug. 17; Sp. p. 3753; Gaz. vol. 145; p. 647.
- Davis, H. P., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-conductor hanger. No. 931,393; Aug. 17; Sp. p. 3754; Gaz. vol. 145; p. 648.
- Davis, H. P., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Over-head-line material for electrical railways. No. 933,747; Sept. 14; Sp. p. 1620; Gaz. vol. 146; p. 266.
- Davis, H. P., and P. MacGahan, Pittsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Indicating means for instruments. No. 920,927; May 11; Sp. p. 1709; Gaz. vol. 142; p. 303.
- Davis, H. P., and T. Varney, Pittsburg, assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Trolley. No. 932,538; Aug. 31; Sp. p. 6149; Gaz. vol. 145; p. 1067.
- Davis, I. N., assignor of one-half to F. Welles, Wyafusing, Pa. Pickle-cabinet and banana-display tree. No. 925,876; June 22; Sp. p. 5851; Gaz. vol. 143; p. 1012.
- Davis, J., Chicago, Ill. Educational device. No. 927,499; July 13; Sp. p. 1630; Gaz. vol. 144; p. 293.
- Davis, J., and J. M. Lutz, Philadelphia, Pa. Window-holder and weather-strip. No. 919,426; Apr. 27; Sp. p. 5296; Gaz. vol. 141; p. 916.
- Davis, J. A., Chicago, Ill. Device for making puffs and curls of hair. No. 920,439; May 4; Sp. p. 710; Gaz. vol. 142; p. 112.
- Davis, J. A., and D. L. Reed, Wright, W. Va. Car-brake. No. 924,645; June 15; Sp. p. 3342; Gaz. vol. 143; p. 576.
- Davis, J. C., Concord, N. C. Non-refillable bottle. No. 921,809; May 18; Sp. p. 3532; Gaz. vol. 142; p. 627.
- Davis, J. C., Urbana, Ill. Cycle. No. 934,797; Sept. 21; Sp. p. 3672; Gaz. vol. 146; p. 637.
- Davis, J. E., *et al.* (See Lore, R. J., assignor.)
- Davis, J. H., Hamilton, Ohio. Flushing mechanism. No. 920,928; May 11; Sp. p. 1711; Gaz. vol. 142; p. 304.
- Davis, J. H., Hamilton, Ohio. Sanitary closet. No. 933,830; Sept. 14; Sp. p. 1769; Gaz. vol. 146; p. 298.
- Davis, J. J., St. Louis, Mo. Mop-wringer. No. 921,207; May 11; Sp. p. 2276; Gaz. vol. 142; p. 400.
- Davis, J. J., Columbus, Ohio. Means for warming show-windows. No. 923,149; June 1; Sp. p. 66; Gaz. vol. 143; p. 10.
- Davis, J. N., Denver, Colo. Battery box or tray and handle therefor. No. 921,808; May 18; Sp. p. 3530; Gaz. vol. 142; p. 626.
- Davis, J. N., Denver, Colo. Electric vehicle-charging wall-socket and plug. No. 921,959; May 18; Sp. p. 3850; Gaz. vol. 142; p. 674.
- Davis, J. F., Chicago, Ill. Friction transmission mechanism. No. 911,947; Feb. 9; Sp. p. 1801; Gaz. vol. 139; p. 332.
- Davis, J. F., Olmsted, W. Va. Traction-engine. No. 935,588; Sept. 28; Sp. p. 5275; Gaz. vol. 146; p. 925.
- Davis, J. V. (See Kennedy and Davis.)
- Davis, J. W., *et al.* (See Parker, E. A., assignor.)
- Davis, J. W., Concordia, Kan. Chain-grip and clevis. No. 919,699; Apr. 27; Sp. p. 5879; Gaz. vol. 141; p. 1009.
- Davis, J. W., Middleton, assignor of one-half to J. W. McIntyre, Pocahtontas, Tenn. Motor-vehicle. No. 928,110; July 13; Sp. p. 2903; Gaz. vol. 144; p. 496.
- Davis, J. X., St. Louis, Mo. Mud-guard. No. 914,390; Mar. 9; Sp. p. 1578; Gaz. vol. 140; p. 268.
- Davis, K., Wilkes-Barre, Pa. Massaging device. No. 927,125; July 6; Sp. p. 891; Gaz. vol. 144; p. 143.
- Davis, L., Alton, Ill. Locking device for incandescent-electric-lamp bulbs. No. 933,296; Sept. 7; Sp. p. 601; Gaz. vol. 146; p. 93.
- Davis, L. A., Larned, Kan. Automatic self-guiding coupling for threshing machines. No. 929,920; Aug. 3; Sp. p. 636; Gaz. vol. 145; p. 101.
- Davis, L. D., Erie, Pa. Machine for straightening tubes and for other uses. No. 927,716; July 13; Sp. p. 2111; Gaz. vol. 144; p. 366.
- Davis, L. D., Erie, Pa. Machine for reducing the walls of tubular billets and for other uses. No. 928,946; July 27; Sp. p. 4640; Gaz. vol. 144; p. 833.
- Davis, L. D., Erie, Pa. Cutting-off machine. No. 931,043; Aug. 17; Sp. p. 2985; Gaz. vol. 145; p. 526.
- Davis, L. D., Erie, Pa. Forming metallic tubes. No. 938,646; Nov. 2; Sp. p. 440; Gaz. vol. 148; p. 68.
- Davis, L. J., Battle Creek, Mich. Poultry-marker. No. 912,820; Feb. 16; Sp. p. 3750; Gaz. vol. 139; p. 660.
- Davis, L. K., New York, N. Y. Building construction. No. 912,819; Feb. 16; Sp. p. 3749; Gaz. vol. 139; p. 660.
- Davis, L. K., New York, N. Y. Building construction. No. 933,163; Sept. 7; Sp. p. 270; Gaz. vol. 146; p. 45.
- Davis, L. K., assignor to G. L. Galbraith, New York, N. Y. Building construction. No. 915,664; Mar. 16; Sp. p. 4160; Gaz. vol. 140; p. 717.
- Davis Locomotive Wheel Company. (See Westlake and Thomas, assignors.)
- Davis, M., Blackwell, Okla. Grain-weighing machine. No. 915,940; Mar. 23; Sp. p. 4684; Gaz. vol. 140; p. 832.
- Davis, M., Blackwell, Okla. Grain weighing and bagging machine. No. 915,941; Mar. 23; Sp. p. 4687; Gaz. vol. 140; p. 832.
- Davis, M. E., Canastota, N. Y. Mop-wringer. No. 942,135; Dec. 7; Sp. p. 232; Gaz. vol. 149; p. 35.
- Davis, M. L. (See Linden, W. H., assignor.)
- Davis, M. O., assignor of one-half to C. E. Peaslee, Duluth, Minn. Crate. No. 944,077; Dec. 21; Sp. p. 4396; Gaz. vol. 149; p. 757.
- Davis, M. T., Jr. (See Parks and Davis.)
- Davis, N. H., Philadelphia, Pa. Metal-cutting apparatus. No. 923,954; June 8; Sp. p. 1882; Gaz. vol. 143; p. 314.
- Davis, N. H., Philadelphia, Pa. Beam-shaping press. No. 930,460; Aug. 10; Sp. p. 1684; Gaz. vol. 145; p. 304.
- Davis, O. (See Bullock, A. A., assignor.)
- Davis, O. C., Brockton, Mass. Making soles for boots and shoes. No. 938,829; Nov. 2; Sp. p. 817; Gaz. vol. 148; p. 131.
- Davis, O. H., Buffalo, N. Y. Concrete-block machine. No. 939,225; Nov. 9; Sp. p. 1683; Gaz. vol. 148; p. 294.
- Davis, O. M. (See Smith and Davis.)
- Davis, O. M., Detroit, Mich. Strengthening member for composite cement and metal constructions. No. 918,019; Apr. 13; Sp. p. 2155; Gaz. vol. 141; p. 388.
- Davis, O. S., Anaheim, Cal. Oil-burner. No. 911,704; Feb. 9; Sp. p. 1359; Gaz. vol. 139; p. 253.
- Davis, O. S., assignor of two-thirds to W. H. Spake and O. A. Lagman, Anaheim, Cal. Making brick. No. 924,745; June 15; Sp. p. 3555; Gaz. vol. 143; p. 610.
- Davis, P. W. (See Davis, S. J. and P. W.)
- Davis, R., Salem, W. Va. Fluid-pressure cut-off. No. 916,114; Mar. 23; Sp. p. 5018; Gaz. vol. 140; p. 889.
- Davis, R. B., Hartford, Conn. Renewable-head railway-rail. No. 923,150; June 1; Sp. p. 67; Gaz. vol. 143; p. 10.
- Davis, R. B., Hartford, Conn. Laying renewable-head railway-rails. No. 926,105; June 29; Sp. p. 6321; Gaz. vol. 143; p. 1122.
- Davis, R. B., Los Angeles, Cal., assignor of one-half to W. K. Mason, Caliente, Nev. Railway signal system. No. 911,118; Feb. 2; Sp. p. 183; Gaz. vol. 139; p. 35.
- Davis, R. E., New Orleans, La. Antidry-meter-valve-lifting device. No. 934,050; Sept. 14; Sp. p. 2192; Gaz. vol. 146; p. 362.
- Davis, R. J., Detroit, Mich. Meeting-rail for sashes. No. 916,115; Mar. 23; Sp. p. 5020; Gaz. vol. 140; p. 889.
- Davis, R. O. E., assignor of one-third to R. T. Allen, Chapel Hill, N. C. Composition for copying-pads. No. 908,967; Jan. 5; Sp. p. 1088; Gaz. vol. 138; p. 176.
- Davis, S. A., assignor to American Sheet & Tin Plate Company, Pittsburg, Pa. Manufacture of plates and sheets. No. 941,861; Nov. 30; Sp. p. 7517; Gaz. vol. 148; p. 1264.
- Davis, S. B., and E. H. Rabiger, Philadelphia, Pa. Spigot-guard. No. 937,570; Oct. 19; Sp. p. 4125; Gaz. vol. 147; p. 702.



*Alphabetical list of patentees—Continued.*

- Davis, S. E., Minneapolis, Minn. Disk drill. No. 939,812; Nov. 9; Sp. p. 3008; Gaz. vol. 148; p. 495.
- Davis, S. E., Minneapolis, Minn., and H. B. Bozard, Lincoln, Nebr.; said Bozard assignor of one-half to Monitor Drill Co., Minneapolis, Minn. Bearing for grain-drills, &c. No. 934,291; Sept. 14; Sp. p. 2671; Gaz. vol. 146; p. 444.
- Davis, S. J., Ostrander, assignor to Washington Iron Works, Seattle, Wash. Flange union. No. 922,755; May 25; Sp. p. 5476; Gaz. vol. 142; p. 963.
- Davis, S. J. and P. W., Eureka, Cal. Lead-block for logging means. No. 933,533; Sept. 7; Sp. p. 1181; Gaz. vol. 146; p. 171.
- Davis Sewing Machine Company. (See Lester, H. B., assignor.)
- Davis, T., New York, N. Y. Faucet. No. 931,732; Aug. 24; Sp. p. 4469; Gaz. vol. 145; p. 778.
- Davis, T., New York, N. Y. Beer-faucet. No. 940,438; Nov. 16; Sp. p. 4440; Gaz. vol. 148; p. 742.
- Davis, T., assignor to A. J. Davis, St. Paul, Minn. Automatic return-valve. No. 932,375; Aug. 24; Sp. p. 5793; Gaz. vol. 145; p. 989.
- Davis, U. G., Pittsburg, assignor of one-half to F. Blackshere, Carmichaels, Pa. Twyer-sight for blast-furnaces. No. 911,579; Feb. 9; Sp. p. 1087; Gaz. vol. 139; p. 212.
- Davis, V., Philadelphia, Pa. Machine for riveting chaplets. No. 942,618; Dec. 7; Sp. p. 1222; Gaz. vol. 149; p. 200.
- Davis, V. E. (See Timmons, F., assignor.)
- Davis, W. (See Conner, F., assignor.)
- Davis, W., and D. M. Godard, Cameron, W. Va. Lock-nut. No. 914,930; Mar. 9; Sp. p. 2657; Gaz. vol. 140; p. 446.
- Davis, W. A. P. (See Sauer, H. O., assignor.)
- Davis, W. B. (See Garant, H., assignor.)
- Davis, W. H., Delray, Miss. Harness and vehicle releasing device. No. 916,422; Mar. 30; Sp. p. 5607; Gaz. vol. 140; p. 1016.
- Davis, W. L., Wabbaseka, Ark. Grader or ditching-machine. No. 930,050; Aug. 3; Sp. p. 906; Gaz. vol. 145; p. 145.
- Davis, W. L., assignor of one-half to W. B. Pruitt, Georges Creek, Tex. Blacksmith's tongs. No. 943,818; Dec. 21; Sp. p. 3841; Gaz. vol. 149; p. 668.
- Davis, W. R., trustee. (See Allen, J. H., assignor.)
- Davis, W. R., trustee. (See Smith, E. M., assignor.)
- Davis, W. S., assignor of one-half to B. F. Smith, Ruston, La. Hoe. No. 928,590; July 20; Sp. p. 3928; Gaz. vol. 144; p. 686.
- Davison, H. J., Moorfield, England. Window. No. 937,580; Oct. 19; Sp. p. 4142; Gaz. vol. 147; p. 705.
- Davison, H. L., and E. D. Yorty, Lincoln, Nebr. Chuck. No. 928,111; July 13; Sp. p. 2905; Gaz. vol. 144; p. 496.
- Davison, H. M., Hubbard, Tex. Device for making castings. No. 919,136; Apr. 20; Sp. p. 4498; Gaz. vol. 141; p. 85.
- Davison, I. D., Little, Okla. Suspended railway. No. 929,196; July 27; Sp. p. 5169; Gaz. vol. 144; p. 916.
- Davison, J. C., assignor of one-half to E. J. Piper, Great Bend, Kans. Chicken-coop. No. 915,565; Mar. 16; Sp. p. 3942; Gaz. vol. 140; p. 680.
- Davison, J. O., Murray, Iowa. Handle. No. 910,648; Jan. 26; Sp. p. 4557; Gaz. vol. 138; p. 829.
- Davison, J. O., Murray, Iowa. Mud-scraper for wheels. No. 940,859; Nov. 23; Sp. p. 5352; Gaz. vol. 148; p. 907.
- Davison, R. C., Plainfield, N. J. Picture-frame. No. 944,601; Dec. 28; Sp. p. 5555; Gaz. vol. 149; p. 963.
- Davison, R. S. (See Taylor, A. F., assignor.)
- Davison, T. C. (See Smith, R. A., assignor.)
- Davison, W. H., et al. (See MacDonald, C. W., assignor.)
- Davit, W. Q. (See Welin, A., assignor.) (Reissue.)
- Davol, F. H., Jr., Brooklyn, N. Y. Bolster. No. 930,051; Aug. 3; Sp. p. 908; Gaz. vol. 145; p. 146.
- Davy Brothers. (See Holmes, T. E., assignor.)
- Davy, O. J., and C. W. Dauber, Washington, D. C., assignors, by mesne assignments, to Industrial Motor Company. Telpherage system. No. 937,581; Oct. 19; Sp. p. 4143; Gaz. vol. 147; p. 706.
- Dawe, A. J., Milwaukee, Wis. Automatic safety-stop for elevators. No. 927,500; July 13; Sp. p. 1632; Gaz. vol. 144; p. 293.
- Dawes, E. L., New Brighton, assignor to Standard Sanitary Manufacturing Company, Pittsburg, Pa. Drain connection. No. 930,845; Aug. 10; Sp. p. 2503; Gaz. vol. 145; p. 433.
- Dawes, E. L., New Brighton, and J. C. Reed, assignors to Standard Sanitary Manufacturing Company, Pittsburg, Pa. Drain connection. No. 928,032; July 13; Sp. p. 2762; Gaz. vol. 144; p. 471.
- Dawes, E. L., New Brighton, and J. C. Reed, assignors to Standard Sanitary Manufacturing Company, Pittsburg, Pa. Drain connection. No. 931,019; Aug. 10; Sp. p. 2916; Gaz. vol. 145; p. 490.
- Dawes, J., Jacksons Mills, N. J. Wind-wheel. No. 909,764; Jan. 12; Sp. p. 2680; Gaz. vol. 138; p. 473.
- Dawes, W. A., La Crosse, Wis. Machine for perforating leather. No. 934,292; Sept. 14; Sp. p. 2674; Gaz. vol. 146; p. 444.
- Dawkins, J. W. (See Dawkins W. E. and J. W.)
- Dawkins, J. W., Spokane, Wash. Shelf attachment for ladders. No. 929,291; July 27; Sp. p. 5379; Gaz. vol. 144; p. 947.
- Dawkins, M. J., Riverside, Cal. Fireproof building. No. 916,276; Mar. 23; Sp. p. 5312; Gaz. vol. 140; p. 940.
- Dawkins, M. J., Riverside, Cal. Railroad-track fastening. No. 916,277; Mar. 23; Sp. p. 5314; Gaz. vol. 140; p. 941.
- Dawkins, W. E. and J. W. O'Fallon, Ill. Electric-railway system. No. 911,948; Feb. 9; Sp. p. 1805; Gaz. vol. 139; p. 332.
- Dawley, C. A., New York, N. Y. Valve. No. 939,987; Nov. 16; Sp. p. 3393; Gaz. vol. 148; p. 585.
- Dawson, A. T., and G. T. Buckham, Westminster, assignors to Vickers Sons & Maxim, Limited, London, England. Automatic gun. No. 909,849; Jan. 12; Sp. p. 2841; Gaz. vol. 138; p. 500.
- Dawson, A. T., and G. T. Buckham, assignors to Vickers Sons & Maxim Limited, London, England. Sighting apparatus for ordnance. No. 913,705; Mar. 2; Sp. p. 55; Gaz. vol. 140; p. 12.
- Dawson, A. T., and G. T. Buckham, Westminster, London, assignors to Vickers Sons & Maxim, Limited, Westminster, England. Sighting apparatus for guns. No. 918,738; Apr. 20; Sp. p. 3700; Gaz. vol. 141; p. 657.
- Dawson, A. T., and G. T. Buckham, London, assignors to Vickers Sons & Maxim Limited, Westminster, England. Automatic gun. No. 920,832; May 4; Sp. p. 1493; Gaz. vol. 142; p. 241.
- Dawson, A. T., and G. T. Buckham, Westminster, assignors to Vickers Sons & Maxim Limited, London, England. Breech-loading ordnance. No. 921,960; May 18; Sp. p. 3853; Gaz. vol. 142; p. 675.
- Dawson, A. T., and G. T. Buckham, assignors to Vickers Sons & Maxim Limited, Westminster, London, England. Electrical transmitting apparatus for controlling the sighting of guns. No. 922,098; May 18; Sp. p. 4127; Gaz. vol. 142; p. 721.
- Dawson, A. T., and G. T. Buckham, assignors to Vickers Sons & Maxim Limited, Westminster, London, England. Firing mechanism for breech-loading ordnance. No. 922,268; May 18; Sp. p. 4475; Gaz. vol. 142; p. 777.
- Dawson, A. T., and G. T. Buckham, assignors to Vickers Sons & Maxim Limited, Westminster, London, England. Sighting apparatus for ordnance. No. 922,397; May 18; Sp. p. 4724; Gaz. vol. 142; p. 818.
- Dawson, A. T., and G. T. Buckham, assignors to Vickers Sons & Maxim, Limited, Westminster, London, England. Sighting apparatus for ordnance. No. 922,398; May 18; Sp. p. 4725; Gaz. vol. 142; p. 819.
- Dawson, A. T., and G. T. Buckham, assignors to Vickers Sons & Maxim Limited, Westminster, London, England. Electrical transmitting apparatus for controlling the sighting of guns. No. 922,399; May 18; Sp. p. 4727; Gaz. vol. 142; p. 819.
- Dawson, A. T., and G. T. Buckham, assignors to Vickers Sons & Maxim Limited, Westminster, England. Sighting apparatus for ordnance. No. 924,746; June 15; Sp. p. 3555; Gaz. vol. 143; p. 610.
- Dawson, A. T., and G. T. Buckham, assignors to Vickers Sons & Maxim, Limited, London, England. Automatic gun. No. 926,052; June 22; Sp. p. 6193; Gaz. vol. 143; p. 1069.
- Dawson, A. T., and G. T. Buckham, Westminster, assignors to Vickers Sons & Maxim, Limited, London, England. Gun carriage or mounting. No. 928,551; June 29; Sp. p. 7184; Gaz. vol. 143; p. 1270.
- Dawson, A. T., and G. T. Buckham, London, assignors to Vickers Sons & Maxim Limited, Westminster, England. Electrical apparatus for transmitting and receiving signals. No. 938,830; Nov. 2; Sp. p. 819; Gaz. vol. 148; p. 131.
- Dawson, A. T., and G. T. Buckham, assignors to Vickers Sons & Maxim, Limited, London, England. Automatic gun. No. 942,167; Dec. 7; Sp. p. 300; Gaz. vol. 149; p. 47.
- Dawson, A. T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Sons & Maxim Limited, London, England. Ammunition-hoisting apparatus for heavy ordnance. No. 938,560; Nov. 2; Sp. p. 269; Gaz. vol. 148; p. 40.
- Dawson, A. T., Westminster, and J. Horne, Barrow-in-Furness, assignors to Vickers Sons & Maxim, Limited, London, England. Range-keeper for guns. No. 941,626; Nov. 30; Sp. p. 6989; Gaz. vol. 148; p. 1182.
- Dawson, B. F. H., Bertramstown, Johannesburg, assignor to J. Van Niekerk, Johannesburg, Transvaal. Candle-protector. No. 912,821; Feb. 16; Sp. p. 3751; Gaz. vol. 139; p. 660.
- Dawson, C. F., Manor, Pa. Curtain-fixture. No. 911,383; Feb. 2; Sp. p. 700; Gaz. vol. 139; p. 120.
- Dawson, E. J., New York, N. Y. Practice-muffler for pianos. No. 912,294; Feb. 16; Sp. p. 2622; Gaz. vol. 139; p. 482.
- Dawson, F. E., executrix. (See Dawson, R.)
- Dawson, F. J., Jackson, Tenn. Collapsible bait-bucket. No. 921,516; May 11; Sp. p. 2925; Gaz. vol. 142; p. 502.
- Dawson, J. C., Richmond, Ind. Cable-grip. No. 926,926; July 6; Sp. p. 460; Gaz. vol. 144; p. 75.
- Dawson, J. C., Webster Groves, Mo., assignor to Sieber & Trussell Manufacturing Company. Means for uniting metal parts. No. 928,947; July 27; Sp. p. 4645; Gaz. vol. 144; p. 833.
- Dawson, J. C., Webster Groves, Mo., assignor to Sieber & Trussell Manufacturing Company. Loose-leaf binder. No. 934,430; Sept. 21; Sp. p. 2951; Gaz. vol. 146; p. 514.



*Alphabetical list of patentees—Continued.*

- Dawson, M. E. (See Burris, W. C., assignor.)
- Dawson, O. B., El Paso, Tex., assignor to American Reduction & Refining Company, New York, N. Y. Metallurgical process. No. 936,095; Oct. 5; Sp. p. 1042; Gaz. vol. 147; p. 158.
- Dawson, R., deceased; F. E. Dawson, executrix, Saxonville, Mass. Machine for coiling and packing fiber. No. 911,297; Feb. 2; Sp. p. 545; Gaz. vol. 139; p. 93.
- Dawson, W. F., Schenectady, N. Y., assignor to General Electric Company. Regulation of dynamo-electric machines. No. 910,649; Jan. 26; Sp. p. 4558; Gaz. vol. 138; p. 829.
- Dawson, W. F., Rugby, England, assignor to General Electric Company. Dynamo-electric machine. No. 919,547; Apr. 27; Sp. p. 5571; Gaz. vol. 141; p. 957.
- Dawson, W. H., assignor to W. P. Waters, Derryhale, W. Va. Wrench. No. 921,643; May 11; Sp. p. 3190; Gaz. vol. 142; p. 546.
- Day, A. (See Brown, E. V., assignor.)
- Day, A. (See Day, J., C. H., and A.)
- Day, A. (See Day, J., W. H., C. H., and A.)
- Day, A., Bloomfield, N. J. Refrigeration system. No. 925,625; June 22; Sp. p. 5287; Gaz. vol. 143; p. 929.
- Day, A., Philadelphia, Pa. Exercising device. No. 931,394; Aug. 17; Sp. p. 3756; Gaz. vol. 145; p. 648.
- Day, A. A. (See Brulaska, A., assignor.)
- Day, A. A., New York, N. Y. Washing-machine. No. 914,642; Mar. 9; Sp. p. 2065; Gaz. vol. 140; p. 351.
- Day, A. A., New York, N. Y. Reducing mechanism. No. 919,327; Apr. 27; Sp. p. 5086; Gaz. vol. 141; p. 882.
- Day, A. B., Knoxville, Tenn. Spring-link. No. 936,865; Oct. 12; Sp. p. 2632; Gaz. vol. 147; p. 439.
- Day, B., Summit, N. J. Film-frame apparatus. No. 941,500; Nov. 30; Sp. p. 6736; Gaz. vol. 148; p. 1141.
- Day, C. H. (See Day, J., C. H., and A.)
- Day, C. H. (See Day, J., W. H., C. H., and A.)
- Day, D., Hume, Ohio. Tire-protector. No. 933,748; Sept. 14; Sp. p. 1621; Gaz. vol. 146; p. 267.
- Day, D. L., Revere, assignor to Vega Company, Boston, Mass. Banjo. No. 928,948; July 27; Sp. p. 4646; Gaz. vol. 144; p. 834.
- Day, G. H., Southbridge, Mass. Door-lock. No. 922,675; May 25; Sp. p. 5307; Gaz. vol. 142; p. 938.
- Day, G. H., assignor to American Optical Co., Southbridge, Mass. Spring-hinge. No. 911,949; Feb. 9; Sp. p. 1806; Gaz. vol. 139; p. 332.
- Day, J., Duluth, Minn. Spirit-level. No. 915,274; Mar. 16; Sp. p. 3345; Gaz. vol. 140; p. 584.
- Day, J., assignor to John C. Kupferle Foundry Company, St. Louis, Mo. Hydrant-casing. No. 935,471; Sept. 28; Sp. p. 5007; Gaz. vol. 146; p. 884.
- Day, J., C. H., and A., Leeds, England. Combined packaging and bag-forming machine. No. 919,427; Apr. 27; Sp. p. 5298; Gaz. vol. 141; p. 916.
- Day, J., W. H., C. H., and A., Leeds, England. Machinery or apparatus for forming or making paper bags. No. 942,715; Dec. 7; Sp. p. 1409; Gaz. vol. 149; p. 231.
- Day, J. C., Widemouth, W. Va. Safety device for railways. No. 931,733; Aug. 24; Sp. p. 4470; Gaz. vol. 145; p. 778.
- Day, M. W., Schenectady, N. Y. assignor to General Electric Company. Circuit-controlling mechanism. No. 935,092; Sept. 23; Sp. p. 4269; Gaz. vol. 146; p. 762.
- Day, O. (See Pounds, W. E., assignor.)
- Day, P., assignor to Draper Company, Hopedale, Mass. Take-up mechanism for looms. No. 913,877; Mar. 2; Sp. p. 440; Gaz. vol. 140; p. 72.
- Day, S. V., Wichita, Kans. Pneumatic calliope. No. 908,968; Jan. 5; Sp. p. 1089; Gaz. vol. 138; p. 176.
- Day, W. H. (See Day, J., W. H., C. H., and A.)
- Day, W. P., Altoona, Pa. Railway-tie and rail-fastening. No. 917,932; Apr. 13; Sp. p. 1959; Gaz. vol. 141; p. 355.
- Day, W. W., Washington, D. C. Collection-indicator for mail-boxes. No. 935,191; Sept. 28; Sp. p. 4462; Gaz. vol. 146; p. 794.
- Dayton Clothing Manufacturing Company. (See Richards, J. E., assignor.) (Reissue.)
- Dayton Keyless Lock Company. (See Deal, J. J., assignor.)
- Dayton Malleable Iron Company. (See Turney, E. E., assignor.)
- Dayton Paper Novelty Company. (See Neumann, T. L., assignor.)
- Dayton, R. C., *et al.* (See Beaudin, E., assignor.)
- Dazey, N. P., Dallas, Tex., and G. W. Hall, St. Louis, Mo. Sign. No. 916,116; Mar. 23; Sp. p. 5021; Gaz. vol. 140; p. 889.
- De Arment, G. B., Meadville, Pa. Hoof-shears. No. 908,969; Jan. 5; Sp. p. 1090; Gaz. vol. 138; p. 176.
- De Bersaques, R., Washington, D. C. Corkscrew. No. 927,127; July 6; Sp. p. 895; Gaz. vol. 144; p. 144.
- De Bord, J. B., Spokane, Wash., assignor to one-third to E. Brimmer, Monroe, Oreg. Lamp-bracket. No. 931,848; Aug. 24; Sp. p. 4704; Gaz. vol. 145; p. 815.
- De Bruin, J., Chicago, Ill. Match-safe. No. 944,413; Dec. 28; Sp. p. 5113; Gaz. vol. 149; p. 598.
- De Bruin, J., Chicago, Ill. Attachment for match-safes. No. 944,414; Dec. 28; Sp. p. 5115; Gaz. vol. 149; p. 898.
- De Bruycker, A. M. H., New York, N. Y. Lock. No. 917,536; Apr. 6; Sp. p. 1131; Gaz. vol. 141; p. 198.
- De Busk, W. H., Chicago, Ill. Rotary folder for printing-presses. No. 942,136; Dec. 7; Sp. p. 236; Gaz. vol. 149; p. 36.
- De Camp, B. W., Chicago, Ill. Child's-chair safety device. No. 944,020; Dec. 21; Sp. p. 4285; Gaz. vol. 149; p. 738.
- De Celle, J. D., Fort Collins, Colo. Beet-harvester. No. 929,921; Aug. 3; Sp. p. 638; Gaz. vol. 145; p. 101.
- De Clercq, F., New York, N. Y. Syrup-percolator. No. 941,234; Nov. 23; Sp. p. 6159; Gaz. vol. 148; p. 1033.
- De Coligny, F., Chicago, Ill., assignor to Coligny Hydraulic Transmission Co. Power-transmitter. No. 933,232; Sept. 7; Sp. p. 458; Gaz. vol. 146; p. 71.
- De Coligny, F., Chicago, Ill., assignor to Coligny Hydraulic Transmission Co. Hydraulic clutch. No. 933,233; Sept. 7; Sp. p. 462; Gaz. vol. 146; p. 71.
- De Ford, W. H., Pittsburg, Pa. Bunion-guard. No. 933,423; Sept. 7; Sp. p. 871; Gaz. vol. 146; p. 136.
- De Foreest, E. J. W. (See Shiray and De Foreest.)
- De Forest, L., New York, N. Y., assignor to De Forest Radio Telephone Co. Space telegraphy. No. 913,718; Mar. 2; Sp. p. 86; Gaz. vol. 140; p. 16.
- De Forest, L., New York, N. Y., assignor, by mesne assignments, to De Forest Radio Telephone Co. Wireless telegraphy. No. 926,933; July 6; Sp. p. 471; Gaz. vol. 144; p. 76.
- De Forest, L., New York, N. Y., assignor, by mesne assignments, to De Forest Radio Telephone Co. Wireless-telegraph tuning device. No. 926,934; July 6; Sp. p. 472; Gaz. vol. 144; p. 77.
- De Forest, L., New York, N. Y., assignor, by mesne assignments, to De Forest Radio Telephone Co. Wireless-telegraph transmitter. No. 926,935; July 6; Sp. p. 474; Gaz. vol. 144; p. 77.
- De Forest, L., New York, N. Y., assignor to De Forest Radio Telephone Co. Space telegraphy. No. 926,936; July 6; Sp. p. 476; Gaz. vol. 144; p. 77.
- De Forest, L., New York, N. Y., assignor to De Forest Radio Telephone Co. Space telephony. No. 926,937; July 6; Sp. p. 477; Gaz. vol. 144; p. 78.
- De Forest, L., New York, N. Y., assignor, by mesne assignments, to De Forest Radio Telephone Co. Space telegraphy. No. 943,969; Dec. 21; Sp. p. 4159; Gaz. vol. 149; p. 720.
- De Forest Radio Telephone Co. (See De Forest, L., assignor.)
- De Francisci, I., New York, N. Y. Machine for conveying and distributing button-blanks. No. 910,511; Jan. 26; Sp. p. 4265; Gaz. vol. 138; p. 783.
- De Francisci, I., New York, N. Y. Attachment for button-blank-distributing machines. No. 932,767; Aug. 31; Sp. p. 6652; Gaz. vol. 145; p. 1144.
- De Freitas, J. H. (See Linkletter and De Freitas.)
- De Garis, W. A., Georgetown, Ky. Dressmaker's gage and stand. No. 914,931; Mar. 9; Sp. p. 2657; Gaz. vol. 140; p. 446.
- De Give, L. J., *et al.* (See Munk, R. W., assignor.)
- De Gowin, C. H., Cheboygan, Mich. Tooth-brush holder. No. 942,058; Dec. 7; Sp. p. 32; Gaz. vol. 149; p. 7.
- De Groot, H. B., Washington, D. C., assignor to one-half to United Wireless Telegraph Co., New York, N. Y. Mast. No. 922,400; May 18; Sp. p. 4729; Gaz. vol. 142; p. 819.
- De Hay, G. W. (See Kezer, A. R., assignor.)
- De Hymel, F. O., San Antonio, Tex. Water-lift. No. 933,894; Sept. 14; Sp. p. 1900; Gaz. vol. 146; p. 313.
- De Jarnatt, H. W., Centralia, Mo., assignor, by mesne assignments, to Marlin Firearms Company, New Haven, Conn. Magazine-firearm. No. 940,791; Nov. 23; Sp. p. 5219; Gaz. vol. 148; p. 886.
- De Jong, J. K., Orange City, Iowa. Attachment for planters. No. 910,793; Jan. 26; Sp. p. 4840; Gaz. vol. 138; p. 875.
- De Julio, G. M., New York, N. Y. Pneumatic piano-player action. No. 916,713; Mar. 30; Sp. p. 6192; Gaz. vol. 140; p. 1109.
- De Kay, C. W., Byron, N. Y. Plow attachment. No. 938,647; Nov. 2; Sp. p. 442; Gaz. vol. 148; p. 68.
- De Kleist, E., North Tonawanda, N. Y., assignor to Rudolph Wurlitzer Company, Cincinnati, Ohio. Pneumatic musical instrument. No. 937,445; Oct. 19; Sp. p. 3874; Gaz. vol. 147; p. 659.
- De Kleist, E., North Tonawanda, N. Y., assignor to Rudolph Wurlitzer Company, Cincinnati, Ohio. Perforating-machine. No. 944,790; Dec. 28; Sp. p. 5946; Gaz. vol. 149; p. 1025.

*Alphabetical list of patentees—Continued.*

- De la Hunty, T., St. Louis, Mo., assignor to Scullin-Gallagher Iron and Steel Company. Mold for making I-beam castings. No. 932,020; Aug. 24; Sp. p. 5099; Gaz. vol. 145; p. 872.
- De La Monte, C. H. (See Henkle and De La Monte.)
- De La Monte, C. H., and E. A. Henkle, Philadelphia, Pa., assignors to International Speed Register Co., New York, N. Y. Speed-recorder. No. 914,850; Mar. 9; Sp. p. 2513; Gaz. vol. 140; p. 420.
- De la Rue, E., London, England. Stylographic pen. No. 921,007; May 11; Sp. p. 1856; Gaz. vol. 142; p. 329.
- De la Rue, E., London, England. Reservoir-pen. No. 926,611; June 29; Sp. p. 7312; Gaz. vol. 143; p. 1290.
- De La Vergne Machine Company. (See Soeldner, H., assignor.)
- De Lancy, D., assignor to Waterbury Buckle Company, Waterbury, Conn. Buckle. No. 908,582; Jan. 5; Sp. p. 308; Gaz. vol. 138; p. 52.
- De Land, T. L., Jr., Philadelphia, Pa., assignor to Porter Safety Seal Company, Chicago, Ill. Barrel. No. 925,759; June 22; Sp. p. 5604; Gaz. vol. 143; p. 972.
- De Lange, P. A. (See Sinning and De Lange.)
- De Laurence, L. W., Chicago, Ill. Powder-dispensing receptacle. No. 933,699; Sept. 7; Sp. p. 1504; Gaz. vol. 146; p. 227.
- De Laval, G., East Orange, N. J., assignor to Henry R. Worthington, New York, N. Y. Oscillating disk piston for disk meters, &c. No. 923,497; June 1; Sp. p. 853; Gaz. vol. 143; p. 130.
- De Laval Steam Turbine Company. (See Guy, A. E., assignor.)
- De Leeuw, A. L., Hamilton, assignor to Cincinnati Milling Machine Company, Cincinnati, Ohio. Variable-speed mechanism. No. 911,951; Feb. 9; Sp. p. 1809; Gaz. vol. 139; p. 333.
- De Leeuw, A. L., Hamilton, assignor to Cincinnati Milling Machine Company, Cincinnati, Ohio. Variable-speed mechanism. No. 914,643; Mar. 9; Sp. p. 2067; Gaz. vol. 140; p. 352.
- De Leeuw, A. L., Hamilton, assignor to Cincinnati Milling Machine Company, Cincinnati, Ohio. Milling-machine. No. 927,776; July 13; Sp. p. 2228; Gaz. vol. 144; p. 386.
- De Leeuw, A. L., Hamilton, assignor to Cincinnati Milling Machine Company, Cincinnati, Ohio. Variable-speed driving mechanism. No. 943,142; Dec. 14; Sp. p. 2408; Gaz. vol. 149; p. 409.
- De Lisie, J., New York, N. Y. Apparatus for making and packaging butter. No. 943,603; Dec. 14; Sp. p. 3348; Gaz. vol. 149; p. 565.
- De Loach, A. A., Bridgeport, Ala. Sliding friction driving mechanism. No. 909,372; Jan. 12; Sp. p. 1907; Gaz. vol. 138; p. 341.
- De Loe, E., Bartlesville, Okla. Burner. No. 913,706; Mar. 2; Sp. p. 58; Gaz. vol. 140; p. 12.
- De Long, E. L., Clearwater, Fla. Irrigating system. No. 915,162; Mar. 16; Sp. p. 3127; Gaz. vol. 140; p. 548.
- De Long, G. D. (See Lucas, De Long, and Lucas.)
- De Lory, W. M., Dorchester, Mass. Combination sink and washtub. No. 912,086; Feb. 9; Sp. p. 2176; Gaz. vol. 139; p. 377.
- De Loss, H. H. (See Ford, H. H., assignor.)
- De Lukasevics, C., New York, N. Y. Blue-printing machine. No. 910,832; Jan. 26; Sp. p. 4913; Gaz. vol. 138; p. 887.
- De Lury, R. E., Ottawa, Ontario, Canada. Means for developing photographic plates. No. 920,835; May 4; Sp. p. 1502; Gaz. vol. 142; p. 242.
- De Maio, R., New York, N. Y. Grinding-mill. No. 930,742; Aug. 10; Sp. p. 2304; Gaz. vol. 145; p. 399.
- De Marquis, A., and E. Ceriat, San Francisco, Cal. Fireproof wall and ceiling. No. 915,665; Mar. 16; Sp. p. 4162; Gaz. vol. 140; p. 718.
- De Mars, A. A., assignor of one-half to H. Coulbey, Lakewood, Ohio. Hub for automobile-wheels. No. 916,118; Mar. 23; Sp. p. 5026; Gaz. vol. 140; p. 890.
- De Mattia, E., Recoaro, Italy, and G. De Mattia, San Paolo, Brazil. Roasting coffee. No. 943,238; Dec. 14; Sp. p. 2595; Gaz. vol. 149; p. 439.
- De Mattia, G. (See De Mattia, E. and G.)
- De Meurisse, A., Philadelphia, Pa. Game apparatus. No. 941,793; Nov. 30; Sp. p. 7353; Gaz. vol. 148; p. 1239.
- De Montford, G. R., Boston, Mass., assignor to Hyde Leather M'fg. Co., New York, N. Y. Making patent-leather or artificial patent-leather. No. 928,235; July 13; Sp. p. 3165; Gaz. vol. 144; p. 539.
- De Moss, J. T., Thornton, assignor of one-half to J. Q. Reed, Newbury, W. Va. Automatic switch. No. 920,836; May 4; Sp. p. 1503; Gaz. vol. 142; p. 243.
- De Moss, J. T., Thornton, assignor of one-half to J. W. Martin, Grafton, W. Va. Locking whip-socket. No. 927,501; July 13; Sp. p. 1634; Gaz. vol. 144; p. 294.
- De Moulin, E., Greenville, Ill. Trick-platform. No. 925,877; June 22; Sp. p. 5852; Gaz. vol. 143; p. 1012.
- De Moulin, E., Greenville, Ill. Initiation device. No. 925,878; June 22; Sp. p. 5854; Gaz. vol. 143; p. 1012.
- De Moulin, E., Greenville, Ill. Water-gun. No. 933,961; Sept. 14; Sp. p. 2034; Gaz. vol. 146; p. 335.
- De Moulin, E., Greenville, Ill. Trick-chair. No. 941,135; Nov. 23; Sp. p. 5944; Gaz. vol. 148; p. 1000.
- De Moulin, U. S., Greenville, Ill. Combined lifting and spanning machine. No. 920,837; May 4; Sp. p. 1504; Gaz. vol. 142; p. 243.
- De Moulin, U. S., Greenville, Ill. Chair. No. 927,717; July 13; Sp. p. 2114; Gaz. vol. 144; p. 366.
- De Moulin, U. S., Greenville, Ill. Initiation device. No. 943,219; Dec. 14; Sp. p. 2550; Gaz. vol. 149; p. 432.
- De Nedrey, S. (See Mitchell, J. N., assignor.)
- De Nise, G. R., Denver, Colo. Operating-table. No. 915,833; Mar. 23; Sp. p. 4496; Gaz. vol. 140; p. 977.
- De Nobili & Co., P. (See Annigoni, R., assignor.)
- De Noble, A., et al. (See Curtiss, E., assignor.)
- De Peel, C. B. (See Hills, L., assignor.)
- De Prez, D. (See Lipps, W., assignor.)
- De Reamer, F. C. (See Sargent and De Reamer.)
- De Reamer, F. C., Schenectady, N. Y., assignor to General Electric Company. Separable electric connector. No. 921,678; May 18; Sp. p. 3282; Gaz. vol. 142; p. 584.
- De Reamer, F. C., Schenectady, N. Y., assignor to General Electric Company. Rosette. No. 937,427; Oct. 19; Sp. p. 3830; Gaz. vol. 147; p. 652.
- De Remer, W. L., Chicago, Ill. Tie-plate. No. 933,164; Sept. 7; Sp. p. 271; Gaz. vol. 146; p. 45.
- De Remer, W. L., Chicago, Ill. Making rolled-metal tie-plates. No. 936,423; Oct. 12; Sp. p. 1733; Gaz. vol. 147; p. 290.
- De Remer, W. L., Chicago, Ill. Railway and rail-support therefor. No. 942,032; Nov. 30; Sp. p. 7834; Gaz. vol. 148; p. 1320.
- De Rocher, F., Chicago, Ill. Base-ball game-board. No. 944,504; Dec. 28; Sp. p. 5330; Gaz. vol. 149; p. 929.
- De Ryder, C. L. (See Leach and De Ryder.)
- De Silva, W., Vancouver, British Columbia, Canada. Street-car life-saving device. No. 934,509; Sept. 21; Sp. p. 3098; Gaz. vol. 146; p. 540.
- De Smith, H., assignor to M. D. Knowlton Company, Rochester, N. Y. Folder for box-staying machines. No. 927,502; July 13; Sp. p. 1635; Gaz. vol. 144; p. 294.
- De Smith, H., assignor to M. D. Knowlton Company, Rochester, N. Y. Adjustable box-form. No. 927,503; July 13; Sp. p. 1637; Gaz. vol. 144; p. 294.
- De Soria, C. F., New York, N. Y. Apparatus for projecting images on screens. No. 923,209; June 1; Sp. p. 187; Gaz. vol. 143; p. 31.
- De Soria, C. F., New York, N. Y. Advertising apparatus. No. 932,725; Aug. 31; Sp. p. 6588; Gaz. vol. 145; p. 1129.
- De Soria, C. F., New York, and J. F. Corrigan, Mamaroneck, N. Y. Stage-setting. No. 915,631; Mar. 16; Sp. p. 4079; Gaz. vol. 140; p. 705.
- De Steiger, J. L., La Salle, Ill. Machine-screw. No. 933,831; Sept. 14; Sp. p. 1770; Gaz. vol. 146; p. 294.
- De Tumble, H. (See Dorn, C. P., assignor.)
- De Tumble, M., Indianapolis, Ind., assignor to Universal Automatic Carving Machine Co., Chicago, Ill. Feed mechanism for automatic carving-machines. No. 921,091; May 11; Sp. p. 2039; Gaz. vol. 142; p. 359.
- De Temple, J. (See Cleverdon and De Temple.)
- De Tienne, H. G., et al. (See Callaway, D. A., assignor.)
- De Tray, F. W., Aurora, Ill. Carbureter. No. 917,264; Apr. 6; Sp. p. 629; Gaz. vol. 141; p. 107.
- De Tray, F. W., Aurora, assignor of one-half to W. Dennis, Chicago, Ill. Telegraph-key. No. 916,538; Mar. 30; Sp. p. 5873; Gaz. vol. 140; p. 1054.
- De Vaughn, W. D., Baltimore, Md. Baker's oven. No. 943,395; Dec. 14; Sp. p. 2923; Gaz. vol. 149; p. 492.
- De Vigne, G., Cheltenham, England. Valve for pneumatic tires. No. 928,411; July 20; Sp. p. 3563; Gaz. vol. 144; p. 630.
- De Vilbiss, A., Jr., Toledo, Ohio, assignor to Toledo Computing Scale Company, Newark, N. J. Cheese-cutter. No. 932,540; Aug. 31; Sp. p. 6151; Gaz. vol. 145; p. 1067.
- De Vilbiss, A., Jr., assignor to Toledo Computing Scale Company, Toledo, Ohio. Computing-scale. No. 936,867; Oct. 12; Sp. p. 2635; Gaz. vol. 147; p. 439.
- De Vilbiss, A. and T. A., Toledo, Ohio. Closure for atomizer-bottles or the like. No. 935,094; Sept. 28; Sp. p. 4276; Gaz. vol. 146; p. 764.
- De Vilbiss, A. and T. A., Toledo, Ohio. Closure for fluid-receptacles. (Reissue.) No. 13,049; Dec. 7; Sp. p. 1776; Gaz. vol. 149; p. 286.
- De Vilbiss Manufacturing Company. (See De Vilbiss, T. A., assignor.)
- De Vilbiss, T. A. (See De Vilbiss, A. and T. A.)
- De Vilbiss, T. A., assignor to De Vilbiss Manufacturing Company, Toledo, Ohio. Check-valve. No. 914,122; Mar. 2; Sp. p. 999; Gaz. vol. 140; p. 158.
- De Vilbiss, T. A., assignor to De Vilbiss Manufacturing Company, Toledo, Ohio. Atomizer. No. 932,604; Aug. 31; Sp. p. 6309; Gaz. vol. 145; p. 1089.



*Alphabetical list of patentees—Continued.*

- De Vilbiss, T. A., assignor to De Vilbiss Manufacturing Company, Toledo, Ohio. Atomizer. No. 938,648; Nov. 2; Sp. p. 443; Gaz. vol. 148; p. 69.
- De Vito, J. A., Boston, Mass. Merry-go-round. No. 915,276; Mar. 16; Sp. p. 3348; Gaz. vol. 140; p. 585.
- De Vito, L., Cleveland, Ohio. Brake for railway-cars. No. 942,684; Dec. 7; Sp. p. 1347; Gaz. vol. 149; p. 222.
- De Voe, A. H., Elizabeth, N. J., assignor to Singer Manufacturing Company. Cloth-cutting machine. No. 936,424; Oct. 12; Sp. p. 1737; Gaz. vol. 147; p. 291.
- De Voe, A. H., Elizabeth, N. J., assignor to Singer Manufacturing Company. Work-holder for sewing-machines. No. 939,894; Nov. 9; Sp. p. 3171; Gaz. vol. 148; p. 523.
- De Voe, W. E., Minneapolis, Minn. Window-lock. No. 912,295; Feb. 16; Sp. p. 2623; Gaz. vol. 139; p. 482.
- De Vore, G. E., Lansing, Mich. Folding box-seat. No. 924,148; June 8; Sp. p. 2279; Gaz. vol. 143; p. 376.
- De Vries, P. J., Hull, Iowa. Device for teaching milking. No. 933,535; Sept. 7; Sp. p. 1185; Gaz. vol. 146; p. 172.
- De Wein, G. F., assignor to Allis-Chalmers Company, Milwaukee, Wis. Water-wheel nozzle. No. 915,277; Mar. 16; Sp. p. 3349; Gaz. vol. 140; p. 585.
- De Wind, N., and J. Hughston, Harvey, Ill. Crusher. No. 909,374; Jan. 12; Sp. p. 1914; Gaz. vol. 138; p. 342.
- De Witt, A. A., assignor of one-half to P. Kinder, Fort Wayne, Ind. Switch-operating mechanism. No. 908,756; Jan. 5; Sp. p. 695; Gaz. vol. 138; p. 108.
- De Witt, C. C., St. Louis, Mo. Wire-rope clamp. No. 928,367; July 20; Sp. p. 3485; Gaz. vol. 144; p. 615.
- De Witt, P. H., *et al.*, executors. (See Berg, W. G.)
- De Witt, W. E., *et al.* (See Fitzgerald, T. P., assignor.)
- De Witt, W. E., *et al.* (See Williams, R., assignor.)
- De Wolf, H. K., Warren, R. I. Soda-tumbler. No. 924,969; June 15; Sp. p. 4030; Gaz. vol. 143; p. 686.
- De Wyrall, C. (See Kanski, R. T., assignor.)
- De Ybarondo, V. C., Los Angeles, Cal. Wireless-telegraph system. No. 935,721; Oct. 5; Sp. p. 209; Gaz. vol. 147; p. 34.
- De Yongh, J., New York, N. Y. Advertising-shade for incandescent lamps. No. 928,572; July 20; Sp. p. 3900; Gaz. vol. 144; p. 681.
- De Zeng, H. L., Maple Shade, N. J. Optometer. No. 941,766; Nov. 30; Sp. p. 7305; Gaz. vol. 148; p. 1231.
- De Zeng, H. L., assignor to De Zeng-Standard Company, Philadelphia, Pa. Illuminator. No. 917,021; Apr. 6; Sp. p. 122; Gaz. vol. 141; p. 24.
- De Zeng-Standard Company. (See De Zeng, H. L., assignor.)
- Deacon, G. B., London, Ontario, Canada. Carpet-sweeper. No. 933,893; Sept. 14; Sp. p. 1896; Gaz. vol. 146; p. 313.
- Deacon, G. B., London, Ontario, Canada. Clothes-drier. No. 939,398; Nov. 9; Sp. p. 2120; Gaz. vol. 148; p. 353.
- Deacon, W. E., *et al.* (See West, C. N. and A. M., assignors.)
- Deal, J. J., Canton, assignor to Dayton Keyless Lock Company, Dayton, Ohio. Combination-lock. No. 925,688; June 22; Sp. p. 5421; Gaz. vol. 143; p. 948.
- Deal, J. Q., Winfield, Kans. Clothes-pounder. No. 923,414; June 1; Sp. p. 690; Gaz. vol. 143; p. 101.
- Deam, J. W., Geary, Okla. Pole-tip. No. 929,402; July 27; Sp. p. 5620; Gaz. vol. 144; p. 986.
- Dean, A. F., *et al.* (See Purdy, H. E., assignor.)
- Dean, A. L., Queenstown, Tasmania, assignor to Mount Lyell Mining and Railway Company Limited, Melbourne, Australia. Treatment of ores. No. 914,391; Mar. 9; Sp. p. 1579; Gaz. vol. 140; p. 268.
- Dean, B. S., San Francisco, Cal. Registering and recording means for musical instruments. No. 930,738; Aug. 10; Sp. p. 2296; Gaz. vol. 145; p. 398.
- Dean, B. S., San Francisco, Cal. Registering and recording means for musical instruments. No. 930,739; Aug. 10; Sp. p. 2299; Gaz. vol. 145; p. 399.
- Dean, C., and E. Rueckert, Providence, R. I.; said Rueckert assignor to said Dean. Pin. No. 921,517; May 11; Sp. p. 2926; Gaz. vol. 142; p. 502.
- Dean, C. A., Homestead, Pa. Trolley. No. 917,556; Apr. 6; Sp. p. 1167; Gaz. vol. 141; p. 203.
- Dean, C. G., Indianapolis, Ind. Means for operating explosive-engines. No. 910,181; Jan. 19; Sp. p. 3532; Gaz. vol. 138; p. 643.
- Dean, C. H., Chicago, Ill., assignor to himself, and W. T. Stall, Brockton, Mass. Shin-guard. No. 930,740; Aug. 10; Sp. p. 2302; Gaz. vol. 145; p. 399.
- Dean, C. H., Chicago, Ill., assignor to himself, and W. T. Stall, Brockton, Mass. Padded garment. No. 930,741; Aug. 10; Sp. p. 2303; Gaz. vol. 145; p. 399.
- Dean, C. M., Elmira, N. Y. Device for raising and lowering fire apparatus. No. 927,126; July 6; Sp. p. 893; Gaz. vol. 144; p. 144.
- Dean, E., *et al.* (See Hubmann, J., assignor.)
- Dean, E. C., Warren township, Clinton county, Ind. Corn gatherer and husker. No. 909,560; Jan. 12; Sp. p. 2277; Gaz. vol. 138; p. 403.
- Dean, E. W., assignor to Kidder Press Company, Dover, N. H. Sheet-delivery mechanism. No. 923,151; June 1; Sp. p. 69; Gaz. vol. 143; p. 11.
- Dean, E. W., assignor to Kidder Press Company, Dover, N. H. Printing-mechanism. No. 938,043; Oct. 26; Sp. p. 5094; Gaz. vol. 147; p. 877.
- Dean Electric Company. (See Dean, W. W., assignor.)
- Dean Electric Company. (See Eaton, R. M., assignor.)
- Dean Electric Company. (See Libby, A. D. T., assignor.)
- Dean Electric Company. (See Manson, R. H., assignor.)
- Dean Electric Company. (See Slough, F. M., assignor.)
- Dean, F., assignor of one-half to H. O. Davis, New Castle, Pa. Thill-coupling. No. 913,945; Mar. 2; Sp. p. 603; Gaz. vol. 140; p. 96.
- Dean, G. R., Chicago, Ill. Pipe. No. 915,275; Mar. 16; Sp. p. 3347; Gaz. vol. 140; p. 584.
- Dean, H. J., Meadville, Pa. Car-coupling. No. 937,023; Oct. 12; Sp. p. 2949; Gaz. vol. 147; p. 491.
- Dean, J. (See Robinson and Dean.)
- Dean, J., assignor to Dean-Joseph Company, Memphis, Tenn. Apparel-pocket. No. 934,660; Sept. 21; Sp. p. 3398; Gaz. vol. 146; p. 592.
- Dean, J. H., Chicago, Ill., assignor to E. C. Hersey, St. Paul, Minn. Voting-machine. No. 911,552; Feb. 2; Sp. p. 1005; Gaz. vol. 139; p. 175.
- Dean, J. H., Chicago, Ill., assignor, by mesne assignments, to Empire Voting Machine Company. Voting-machine. No. 938,126; Oct. 26; Sp. p. 5285; Gaz. vol. 147; p. 905.
- Dean, J. H., Chicago, Ill., assignor, by mesne assignments, to Empire Voting Machine Company. Voting-machine. No. 938,412; Oct. 26; Sp. p. 5920; Gaz. vol. 147; p. 1003.
- Dean, J. H., and H. L. Zipp, Grand Rapids, Mich.; said Zipp assignor to said Dean. Coin-chute for vending-machines. No. 931,847; Aug. 24; Sp. p. 4702; Gaz. vol. 145; p. 814.
- Dean, J. N., Stockport, England. Music and the like cover. No. 936,223; Oct. 5; Sp. p. 1289; Gaz. vol. 147; p. 196.
- Dean, J. W. E., New York, N. Y. Base-ball-game apparatus. No. 942,619; Dec. 7; Sp. p. 1224; Gaz. vol. 149; p. 200.
- Dean-Joseph Company. (See Dean, J., assignor.)
- Dean, L. R., Harleston, Miss. Vine-cutter. No. 930,846; Aug. 10; Sp. p. 2505; Gaz. vol. 145; p. 434.
- Dean, M. L., Centerville, Tenn. Car-buffer. No. 921,208; May 11; Sp. p. 2277; Gaz. vol. 142; p. 400.
- Dean, R. L., Kansas City, Mo., assignor, by mesne assignments, to Dean Rapid Telegraph Co. System of telegraphy. No. 920,833; May 4; Sp. p. 1493; Gaz. vol. 142; p. 242.
- Dean, R. L., Kansas City, Mo., assignor to Dean Rapid Telegraph Co. Polarized relay. No. 922,099; May 18; Sp. p. 4130; Gaz. vol. 142; p. 722.
- Dean Rapid Telegraph Co. (See Dean, R. L., assignor.)
- Dean, W. H. (See McCoy, M. H., assignor.)
- Dean, W. H., Giant, Cal. Window-ventilator. No. 933,421; Sept. 7; Sp. p. 868; Gaz. vol. 146; p. 135.
- Dean, W. W., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 912,822; Feb. 16; Sp. p. 3753; Gaz. vol. 139; p. 661.
- Dean, W. W., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Desk-stand. No. 915,077; Mar. 16; Sp. p. 2915; Gaz. vol. 140; p. 520.
- Dean, W. W., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Testing system for telephone-lines. No. 916,117; Mar. 23; Sp. p. 5022; Gaz. vol. 140; p. 890.
- Dean, W. W., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Magnetic device for telephone systems. No. 917,017; Apr. 6; Sp. p. 114; Gaz. vol. 141; p. 23.
- Dean, W. W., assignor to Dean Electric Company, Elyria, Ohio. Transmitter-mouthpiece. No. 927,643; July 13; Sp. p. 1953; Gaz. vol. 144; p. 342.
- Dean, W. W., assignor to Dean Electric Company, Elyria, Ohio. Means for protecting operators' ringing leads from short circuits. No. 932,003; Aug. 24; Sp. p. 5062; Gaz. vol. 145; p. 866.
- Dean, W. W., Elyria, Ohio, assignor to Dean Electric Company. Telephone-transmitter. (Reissue.) No. 13,035; Nov. 2; Sp. p. 1608; Gaz. vol. 148; p. 262.
- Deane, J. B., New York, N. Y. Band-cutter. No. 938,831; Nov. 2; Sp. p. 825; Gaz. vol. 148; p. 132.

*Alphabetical list of patentees—Continued.*

- Deane, W. C., Washington, D. C., assignor to Harris Automatic Press Company, Niles, Ohio. Bearer for printing-presses. No. 923,415; June 1; Sp. p. 692; Gaz. vol. 143; p. 102.
- Deaner, L. H., assignor of one-third to J. M. Herbert, Muskegon, Mich. Advertising-sign. No. 910,650; Jan. 26; Sp. p. 4561; Gaz. vol. 138; p. 830.
- Dearborn, C. A., New York, N. Y., assignor, by mesne assignments, to Empire Machine Company, Providence, R. I. Feeding mechanism for hat-sweat-sewing machines. No. 910,463; Jan. 19; Sp. p. 4149; Gaz. vol. 138; p. 744.
- Dearborn, R. J., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of electrical distribution. No. 941,362; Nov. 30; Sp. p. 6430; Gaz. vol. 148; p. 1095.
- Dearing, J. F. (See Phillips, Harris, and Dearing.)
- Dearing, J. W., assignor of one-half to W. S. Bullis, Los Angeles, Cal. Automatic burner-controller. No. 914,023; Mar. 2; Sp. p. 808; Gaz. vol. 140; p. 123.
- Dearing, M. C., Haverhill, Mass. Jar-opener. No. 914,119; Mar. 2; Sp. p. 992; Gaz. vol. 140; p. 157.
- Dearlove, J. A. L., London, England. Electric telegraphy. No. 942,620; Dec. 7; Sp. p. 1226; Gaz. vol. 149; p. 200.
- Debus, C. and J., Höchst-on-the-Main, Germany. Smelting-furnace. No. 934,892; Sept. 21; Sp. p. 3849; Gaz. vol. 146; p. 668.
- Debus, J. (See Debus, C. and J.)
- Deby, B. H. (See Hartley and Deby.)
- Dechant, W. A., Columbus, Ohio. Trolley harp or pole. No. 914,338; Mar. 2; Sp. p. 1447; Gaz. vol. 140; p. 225.
- Dechert, D., Bad Kissingen, Germany. Machine for larding meat and the like. No. 925,162; June 15; Sp. p. 4400; Gaz. vol. 143; p. 751.
- Dechow, L. T., et. al. (See Durant, H. T., assignor.)
- Deck, H., assignor to J. Braun & Sons, Philadelphia, Pa. Lawn-mower. No. 937,143; Oct. 19; Sp. p. 3206; Gaz. vol. 147; p. 561.
- Deck, N. (See D'Aoust and Deck.)
- Deckebach, H. E., Cincinnati, Ohio. Liquid purifier and separator. No. 921,811; May 18; Sp. p. 3538; Gaz. vol. 142; p. 628.
- Decker Electrical Manufacturing Company. (See Decker, F. A., assignor.)
- Decker, F. A., Philadelphia, Pa., assignor to Decker Electrical Manufacturing Company, Wilmington, Del. Coupling for battery elements. No. 944,078; Dec. 21; Sp. p. 4398; Gaz. vol. 149; p. 758.
- Decker, F. A., Philadelphia, Pa., assignor to Decker Electrical Manufacturing Company, Wilmington, Del. Electric battery. No. 944,079; Dec. 21; Sp. p. 4399; Gaz. vol. 149; p. 758.
- Decker, F. A., Philadelphia, Pa., assignor, by mesne assignments, to Decker Electrical Manufacturing Company, Wilmington, Del. Siphon. No. 944,602; Dec. 28; Sp. p. 5557; Gaz. vol. 149; p. 964.
- Decker, F. W., assignor of one-third to A. Fendig, Brunswick, Ga. Combined fertilizer-distributor and planter. No. 940,517; Nov. 16; Sp. p. 4609; Gaz. vol. 148; p. 769.
- Decker, G. E., Pomona, Cal. Receptacle and closure. No. 944,234; Dec. 21; Sp. p. 4703; Gaz. vol. 149; p. 806.
- Decker, H. R., Houston, Tex. Mechanism for drilling wells. No. 920,548; May 4; Sp. p. 923; Gaz. vol. 142; p. 149.
- Decker, M. L., Maxwell, Neb. Nut-lock. No. 923,251; June 1; Sp. p. 272; Gaz. vol. 143; p. 45.
- Decker, R. P., Atlanta, Ga. Portable milling-machine. No. 942,168; Dec. 7; Sp. p. 311; Gaz. vol. 149; p. 47.
- Decker, W. F., Goshen, N. Y. Apparatus for drying bricks. No. 923,340; June 1; Sp. p. 531; Gaz. vol. 143; p. 76.
- Decker, W. H., assignor to Solvay Process Company, Syracuse, N. Y. Apparatus for making barrel-bodies from pulp. No. 928,247; July 20; Sp. p. 3216; Gaz. vol. 144; p. 573.
- Decker, W. H., assignor to Solvay Process Company, Syracuse, N. Y. Apparatus for making barrel-bodies of paper-pulp. No. 928,248; July 20; Sp. p. 3219; Gaz. vol. 144; p. 573.
- Decker, W. H., assignor to Solvay Process Company, Syracuse, N. Y. Apparatus for forming bilged barrel-bodies of paper-pulp. No. 928,249; July 20; Sp. p. 3222; Gaz. vol. 144; p. 574.
- Decker, W. H., assignor to Solvay Process Company, Syracuse, N. Y. Apparatus for making paper. No. 941,561; Nov. 30; Sp. p. 6855; Gaz. vol. 148; p. 1161.
- Decker, W. H., assignor to Solvay Process Company, Syracuse, N. Y. Means for holding barrel-heads in place. No. 941,562; Nov. 30; Sp. p. 6858; Gaz. vol. 148; p. 1162.
- Dedman. (See Mehle, M., assignor.)
- Dederick, C. P. (See Rankin and Dederick.)
- Dedrick, N. (See Schuette and Dedrick.)
- Dee, T., Randolph, Mass. Spring-heel. No. 933,422; Sept. 7; Sp. p. 870; Gaz. vol. 146; p. 135.
- Deeds, J. B. W., Glen Elder, Kans. Grain-harvesting machine. No. 931,575; Aug. 17; Sp. p. 4089; Gaz. vol. 145; p. 704.
- Deegan, E. J., New York, N. Y. Automatic ash-sifter. No. 908,970; Jan. 5; Sp. p. 1092; Gaz. vol. 138; p. 176.
- Deegan, O. J., Port Arthur, Ontario, Canada. Sink-stop. No. 936,313; Oct. 12; Sp. p. 1466; Gaz. vol. 147; p. 254.
- Deegans, W. E. (See Carman, C. W., assignor.)
- Deely, D. F., Waterbury, Conn. Hat-ventilator. No. 934,508; Sept. 21; Sp. p. 3098; Gaz. vol. 146; p. 540.
- Deer, L., and F. Smith, Etma, Pa. Rail-joint. No. 943,394; Dec. 14; Sp. p. 2922; Gaz. vol. 149; p. 492.
- Deere, E. O., and T. O. Jäderborg, Lindsborg, Kans. Illuminated sight for firearms. No. 920,278; May 4; Sp. p. 409; Gaz. vol. 142; p. 62.
- Deering, F., Covington, Ky., assignor to Peck, Williamson Heating and Ventilating Company, Cincinnati, Ohio. Wire-forming machine. No. 911,950; Feb. 9; Sp. p. 1808; Gaz. vol. 139; p. 333.
- Deering, F., Covington, Ky., assignor to Peck, Williamson Heating and Ventilating Company, Cincinnati, Ohio. Machine for forming pipe-joints. No. 927,836; July 13; Sp. p. 2365; Gaz. vol. 144; p. 406.
- Deeter, W. M., Philadelphia, Pa. Attachment for type-writers. No. 942,366; Dec. 7; Sp. p. 703; Gaz. vol. 149; p. 114.
- Deeth, H. M. and T. J., Toronto, Ontario, Canada. Vehicle-wheel tire. No. 935,093; Sept. 28; Sp. p. 4273; Gaz. vol. 146; p. 763.
- Deeth, T. J. (See Deeth, H. M. and T. J.)
- Deevy, P., Melrose, Iowa. Nail-clencher. No. 920,834; May 4; Sp. p. 1501; Gaz. vol. 142; p. 242.
- Defaucamberge, P., assignor to Societe Francaise de la Viscose, Paris, France. Manufacture of products containing india-rubber and cellulose. No. 943,658; Dec. 21; Sp. p. 3531; Gaz. vol. 149; p. 614.
- Defner, G. J., West Springfield, Mass. Burglar-alarm. No. 931,395; Aug. 17; Sp. p. 3758; Gaz. vol. 145; p. 648.
- Defiance Pressed Steel Company. (See Klenk, G., assignor.)
- Defiance Pressed Steel Company. (See Klenk and Fink, assignors.) (Reissue.)
- Degan, J., Roxbury, Mass. Adjustable picture-hanger. No. 939,226; Nov. 9; Sp. p. 1690; Gaz. vol. 148; p. 294.
- Degen, J. (See Clymer and Degen.)
- Degener, H., Berlin, Germany. Line setting and casting machine. No. 913,627; Feb. 23; Sp. p. 5391; Gaz. vol. 139; p. 953.
- Degener, H., Berlin, Germany. Linotype-matrix. No. 916,679; Mar. 30; Sp. p. 6138; Gaz. vol. 140; p. 1100.
- Degener, H., Berlin, Germany. Type-setting and line-casting machine. No. 924,326; June 8; Sp. p. 2689; Gaz. vol. 143; p. 428.
- Degener, H., assignor to Patent-Industrie-Gesellschaft M. B. H., Berlin, Germany. Type setting and casting machine. No. 918,739; Apr. 20; Sp. p. 3703; Gaz. vol. 141; p. 657.
- Degener, W., Jr., New York, N. Y. Freezing apparatus. No. 921,370; May 11; Sp. p. 2636; Gaz. vol. 142; p. 454.
- Deglin, J. C., Cleveland, Ohio. Sash-lock. No. 939,480; Nov. 9; Sp. p. 2300; Gaz. vol. 148; p. 381.
- Degorgis, F., West Hoboken, N. J. Socket for sash-cords. No. 919,831; Apr. 27; Sp. p. 6177; Gaz. vol. 141; p. 1053.
- Degn, P. F., Bremen, Germany. Flying apparatus. No. 922,756; May 25; Sp. p. 5477; Gaz. vol. 142; p. 963.
- Degn, P. F., Bremen, Germany. Screw-propeller for flying-machines. No. 934,394; Sept. 14; Sp. p. 2872; Gaz. vol. 146; p. 480.
- Dehainault, C. (See Auscher and Dehainault.)
- Dehn, C. F., Harriette, Mich. Snow-plow. No. 934,798; Sept. 21; Sp. p. 3673; Gaz. vol. 146; p. 638.
- Dehn, G. J., Chicago, Ill. Cap for vent-pipes. No. 912,823; Feb. 16; Sp. p. 3756; Gaz. vol. 139; p. 661.
- Dehn, G. J., Chicago, Ill. Floor-drain. No. 935,000; Sept. 28; Sp. p. 4082; Gaz. vol. 146; p. 731.
- Dehne, A., Frankfurt-on-the-Oder, Germany. Combined step and journal bearing. No. 924,747; June 15; Sp. p. 3558; Gaz. vol. 143; p. 610.
- Dehr, P. F., Hinsdale, Ill. Burial-vault. No. 912,997; Feb. 23; Sp. p. 4086; Gaz. vol. 139; p. 741.
- Deibel, C. G., St. Louis, Mo. Weight for pickling-vats. No. 916,919; Mar. 30; Sp. p. 6586; Gaz. vol. 140; p. 1174.
- Deidrick, W. H., Chester, W. Va. Self-adjusting pressure sink-flusher. No. 917,717; Apr. 6; Sp. p. 1471; Gaz. vol. 141; p. 257.
- Deihle, C. L. (See Wright and Deihle.)
- Deiller, E. M. and M., Newark, N. J., assignors to Deiller Faucet Company, New York, N. Y. Faucet. No. 937,513; Oct. 19; Sp. p. 4017; Gaz. vol. 147; p. 682.
- Deiller Faucet Company. (See Deiller, E. M. and M., assignors.)
- Deiller, M. (See Deiller, E. M. and M.)
- Deinet, J., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 935,590; Sept. 28; Sp. p. 5276; Gaz. vol. 146; p. 925.
- Deinet, J., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 935,781; Oct. 5; Sp. p. 359; Gaz. vol. 147; p. 54.
- Deinet, J., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat coloring-matter. No. 938,618; Nov. 2; Sp. p. 395; Gaz. vol. 148; p. 59.



*Alphabetical list of patentees—Continued.*

- Deinet, J., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat coloring-matter. No. 938,619; Nov. 2; Sp. p. 395; Gaz. vol. 148; p. 59.
- Deininger, M. F., assignor of one-half to J. H. Walters, Brooklyn, N. Y. Alarm for catch-basins. No. 933,237; Sept. 7; Sp. p. 473; Gaz. vol. 146; p. 73.
- Deister Concentrator Company. (See Deister, E., assignor.)
- Deister, E., Fort Wayne, Ind., assignor to Deister Concentrator Company. Driving mechanism for ore-concentrators. No. 909,765; Jan. 12; Sp. p. 2632; Gaz. vol. 138; p. 474.
- Deister, E., Fort Wayne, Ind., assignor to Deister Concentrator Company. Ore-concentrator. No. 921,089; May 11; Sp. p. 2032; Gaz. vol. 142; p. 353.
- Deister, E., Fort Wayne, Ind., assignor to Deister Concentrator Company. Ore-concentrator. No. 921,090; May 11; Sp. p. 2035; Gaz. vol. 142; p. 353.
- Deken, H. B., St. Louis, Mo. Cotton-chopper. No. 928,112; July 13; Sp. p. 2907; Gaz. vol. 144; p. 496.
- Dekker, G. H., Oostburg, Wis. Separator. No. 915,832; Mar. 23; Sp. p. 4495; Gaz. vol. 140; p. 797.
- Deknatel, F. H., assignor to Mackie-Lovejoy Manufacturing Company, Chicago, Ill. Trousers-hanger. No. 936,096; Oct. 5; Sp. p. 1043; Gaz. vol. 147; p. 159.
- Del Proposto, C., Rome, Italy. Propulsion of submarine boats. No. 944,776; Dec. 28; Sp. p. 5919; Gaz. vol. 149; p. 1021.
- Delafond, E., Mexico, Mexico. Mechanical separation of rubber from rubber-bearing plants. No. 920,279; May 4; Sp. p. 411; Gaz. vol. 142; p. 62.
- Delahunty Dyeing Machine Company. (See Austin, W., assignor.)
- Delamere, H. S., Ferndale, Cal. Attachment for automobiles. No. 936,866; Oct. 12; Sp. p. 2633; Gaz. vol. 147; p. 439.
- Delaney, D. J. (See Brodhead, A. G., assignor.)
- Delano, C. E., Forrest City, Ark. Cotton-chopper. No. 927,128; July 6; Sp. p. 897; Gaz. vol. 144; p. 144.
- Delano, W. E., Somerville, Mass. Tool for lathes, planers, &c. No. 937,775; Oct. 26; Sp. p. 4545; Gaz. vol. 147; p. 787.
- Delany, E. L., New York, N. Y. Closet-seat. No. 912,824; Feb. 16; Sp. p. 3757; Gaz. vol. 139; p. 662.
- Delany, P. B., South Orange, N. J. Keyboard telegraphic transmitter. No. 911,384; Feb. 2; Sp. p. 701; Gaz. vol. 139; p. 120.
- Delany, P. B., South Orange, N. J. Keyboard-transmitter for Morse and other telegraphic codes. No. 918,291; Apr. 13; Sp. p. 2704; Gaz. vol. 141; p. 479.
- Delany, P. B., South Orange, N. J. Telegraphy. No. 918,293; Apr. 13; Sp. p. 2709; Gaz. vol. 141; p. 480.
- Delany, P. B., South Orange, N. J. Autodot-transmitter. No. 918,294; Apr. 13; Sp. p. 2712; Gaz. vol. 141; p. 480.
- Delany, P. B., South Orange, N. J., assignor to Delany Telegraphic Transmitter Company, Augusta, Me. Telegraphy. (Reissue.) No. 12,906; Jan. 5; Sp. p. 1446; Gaz. vol. 138; p. 230.
- Delany, P. B., South Orange, N. J., assignor, by mesne assignments, to Telepost Company of Maine. Telegraphy. No. 918,292; Apr. 13; Sp. p. 2708; Gaz. vol. 141; p. 480.
- Delany, P. B., South Orange, N. J., assignor, by mesne assignments, to Telepost Company. Telegraphic receiving-tape. No. 924,538; June 8; Sp. p. 3101; Gaz. vol. 143; p. 507.
- Delany Telegraphic Transmitter Company. (See Delany, P. B., assignor.) (Reissue.)
- Delbridge, J., Windsor, Victoria, Australia. Air compressor or pump. No. 941,627; Nov. 30; Sp. p. 6991; Gaz. vol. 148; p. 1183.
- Delene, E. C., Moline, Ill. Hose-nozzle. No. 927,837; July 13; Sp. p. 2367; Gaz. vol. 144; p. 406.
- Delesdernier, O. M., Dorchester, Mass. Manifold device. No. 911,580; Feb. 9; Sp. p. 1089; Gaz. vol. 139; p. 212.
- Delger, H. V., Colorado City, Colo. Match-safe. No. 910,044; Jan. 19; Sp. p. 3246; Gaz. vol. 138; p. 599.
- Delhomme, J. E., Paris, France, assignor to General Electric Company. Belt-tightening device. No. 919,548; Apr. 27; Sp. p. 5574; Gaz. vol. 141; p. 953.
- Dellis, C., Plano, Ill. Apparatus for delivering and receiving mail-bags. No. 909,371; Jan. 12; Sp. p. 1905; Gaz. vol. 138; p. 340.
- Delwik-Fleischer, Wassergas Gesellschaft m. b. H. (See Dicke and Klinkmann, assignors.)
- Dellwo, D., Pendleton, Oreg. Draft-equalizer. No. 937,426; Oct. 19; Sp. p. 3829; Gaz. vol. 147; p. 652.
- Delmore, W., New York, N. Y. Apparatus for gymnastic work. No. 916,680; Mar. 30; Sp. p. 6139; Gaz. vol. 140; p. 1100.
- Delpech, R., *et al.* (See Regenold, F., assignor.)
- Delsee, C., Chicago, Ill. Sandpapering hand-plane. No. 915,746; Mar. 23; Sp. p. 4334; Gaz. vol. 140; p. 771.
- Delubac, A., La Bégude, assignor to Societe Francaise de la Viscose, Paris, France. Apparatus for producing and treating viscose threads or artificial silk. No. 923,777; June 1; Sp. p. 1479; Gaz. vol. 143; p. 226.
- Delvigne, C., Brussels, Belgium, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 928,591; July 20; Sp. p. 3931; Gaz. vol. 144; p. 687.
- Demaine, J. and W. H., Ashworth, Ontario, Canada. Safety match-box. No. 935,472; Sept. 28; Sp. p. 5008; Gaz. vol. 146; p. 885.
- Demaine, W. H. (See Demaine, J. and W. H.)
- Demarest, A. G., New York, N. Y. Kitchen-sink cover. No. 914,120; Mar. 2; Sp. p. 993; Gaz. vol. 140; p. 157.
- Demarest, D. C., *et al.* (See Senn, C., assignor.)
- Demarest, G. M., Buffalo, N. Y. Automatic sprinkler system. No. 911,705; Feb. 9; Sp. p. 1362; Gaz. vol. 139; p. 253.
- Demarest, T. W., Fort Wayne, Ind. Valve. No. 921,209; May 11; Sp. p. 2279; Gaz. vol. 142; p. 400.
- Demary, J. B. (See Barnard, H. A. and R., assignors.)
- Demary, J. B., Plattsburg, N. Y. Shingle-bracket. No. 940,957; Nov. 23; Sp. p. 5554; Gaz. vol. 148; p. 940.
- Demek, C. F., Berlin, Germany. Sphere for acrobatic purposes. No. 942,250; Dec. 7; Sp. p. 476; Gaz. vol. 149; p. 74.
- Dement, I. S., Chicago, Ill., assignor to J. W. York and Sons Company. Tube-bender. No. 921,677; May 18; Sp. p. 3280; Gaz. vol. 142; p. 533.
- Demeter, J. (See Lauer and Demeter.)
- Demiel, R. (See Weyer, T. G., assignor.)
- Deming Company. (See Deming, W. L., assignor.)
- Deming, H. H., assignor of one-half to A. J. Johnson, Chicago, Ill. Hame-fastener. No. 923,955; June 8; Sp. p. 1885; Gaz. vol. 143; p. 315.
- Deming, W. L., assignor to Deming Company, Salem, Ohio. Bucket-pump. No. 913,203; Feb. 23; Sp. p. 4496; Gaz. vol. 139; p. 810.
- Deming, W. L., assignor to Deming Company, Salem, Ohio. Tank and spray pump. No. 916,920; Mar. 30; Sp. p. 6587; Gaz. vol. 140; p. 1174.
- Dennler, H. L., Weathersfield, Ill. Molding apparatus. No. 910,651; Jan. 26; Sp. p. 4564; Gaz. vol. 138; p. 830.
- Demorest, M. J., Belding, Mich. Concrete-mixer. No. 922,860; May 25; Sp. p. 5693; Gaz. vol. 142; p. 998.
- Demorest, M. J., Belding, Mich. Mold for concrete burial-vaults. No. 928,638; July 20; Sp. p. 4037; Gaz. vol. 144; p. 703.
- Demorest, M. J., assignor to Ballou Manufacturing Company, Belding, Mich. Concrete-mixer. No. 935,782; Oct. 5; Sp. p. 360; Gaz. vol. 147; p. 54.
- Dempewolf, O., Brunswick, Germany. Blank-feed mechanism for can-closing machines. No. 913,623; Feb. 23; Sp. p. 5402; Gaz. vol. 139; p. 953.
- Dempsey, C. H., Riverside, Cal. Releasable connection. No. 912,087; Feb. 9; Sp. p. 2177; Gaz. vol. 139; p. 377.
- Dempsey, C. H., Riverside, Cal. Weighing-machine. No. 912,088; Feb. 9; Sp. p. 2179; Gaz. vol. 139; p. 378.
- Dempsey, C. H., Riverside, Cal. Car-squeeze. No. 936,523; Oct. 12; Sp. p. 1958; Gaz. vol. 147; p. 323.
- Dempsey, D. F., assignor to T. J. Dempsey, Corry, Pa. Meat-block-planing device. No. 932,449; Aug. 31; Sp. p. 5950; Gaz. vol. 145; p. 1037.
- Dempsey, J. H., Cleveland, Ohio. Removable rubber heel. No. 914,810; Mar. 9; Sp. p. 2423; Gaz. vol. 140; p. 407.
- Dempsey, J. M. (See Schaeffer and Dempsey.)
- Dempsey, J. T., Kansas City, Kans., assignor of one-half to E. S. W. Drought, Kansas City, Mo. Automatic safety device for elevators. No. 940,792; Nov. 23; Sp. p. 5222; Gaz. vol. 148; p. 886.
- Dempsey, T. J. (See Dempsey, D. F., assignor.)
- Dempster, J. T., Schenectady, N. Y., assignor to General Electric Company. Oscillograph. No. 919,137; Apr. 20; Sp. p. 4499; Gaz. vol. 141; p. 786.
- Dempster, J. T. H., Schenectady, N. Y., assignor to General Electric Company. Electrical apparatus and manufacturing and operating the same. No. 917,018; Apr. 6; Sp. p. 117; Gaz. vol. 141; p. 23.
- Dempster, J. T. H., Schenectady, N. Y., assignor to General Electric Company. Silicon alloy. No. 923,152; June 1; Sp. p. 71; Gaz. vol. 143; p. 11.
- Dempster, J. T. H., Schenectady, N. Y., assignor to General Electric Company. Making alloys. No. 926,980; July 6; Sp. p. 566; Gaz. vol. 144; p. 93.
- Dempster, J. T. H., Schenectady, N. Y., assignor to General Electric Company. Arc-lamp. No. 935,896; Oct. 5; Sp. p. 634; Gaz. vol. 147; p. 92.
- Dempster, L. E., Schenectady, N. Y., assignor to General Electric Company. Vapor electric apparatus. No. 942,378; Dec. 7; Sp. p. 722; Gaz. vol. 149; p. 118.
- Dempster & Sons, R. (See Toogood, H. J., assignor.)
- Demulling, J. (See Barber, J. E., assignor.)
- Denburger, H., East Orange, N. J. Punch. No. 909,285; Jan. 12; Sp. p. 1743; Gaz. vol. 138; p. 313.

*Alphabetical list of patentees—Continued.*

- Dench, W. L., Pelham, assignor to Elliott-Fisher Company, New York, N. Y. Variable automatic spacing mechanism for combined type-writing and adding machines. No. 927,838; July 13; Sp. p. 2368; Gaz. vol. 144; p. 406.
- Dench, W. L., Pelham, assignor to Elliott-Fisher Company, New York, N. Y. Number-wheel lock for calculating-machines. No. 942,487; Dec. 7; Sp. p. 962; Gaz. vol. 149; p. 155.
- Deneal, J., Toledo, assignor to J. Berthelot, East Toledo, Ohio. Stay-bolt for boilers. No. 910,361; Jan. 19; Sp. p. 3942; Gaz. vol. 138; p. 709.
- Deneen, D., Gleece, Minn. Attachment for middlings-purifiers. No. 912,649; Feb. 16; Sp. p. 3352; Gaz. vol. 139; p. 602.
- Denglar, G. S., Oberlin, Pa. Railway-tie. No. 910,512; Jan. 26; Sp. p. 4267; Gaz. vol. 138; p. 783.
- Denham, E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Former for armature-coils. No. 935,299; Sept. 28; Sp. p. 4669; Gaz. vol. 146; p. 829.
- Denham, E. A., New York, N. Y. Transportation-ticket. No. 913,107; Feb. 23; Sp. p. 4291; Gaz. vol. 139; p. 778.
- Denham, J. C., Americus, Ga. Railway-rail tie and fastening. No. 929,403; July 27; Sp. p. 5622; Gaz. vol. 144; p. 986.
- Denhard, H. W., assignor to G. B. Katzenstein, Jr., San Francisco, Cal. Electric water-heater. No. 927,027; July 6; Sp. p. 679; Gaz. vol. 144; p. 109.
- Denhard, H. W., San Francisco, Cal., assignor to G. B. Katzenstein, Jr. Curling-iron heater. No. 932,539; Aug. 31; Sp. p. 6150; Gaz. vol. 145; p. 1067.
- Denhard, H. W.; assignor to G. B. Katzenstein, Jr., San Francisco, Cal. Electric heater. No. 938,127; Oct. 26; Sp. p. 5293; Gaz. vol. 147; p. 905.
- Denhard, H. W., assignor to G. B. Katzenstein, Jr., San Francisco, Cal. Attachment for electric appliances. No. 941,979; Nov. 30; Sp. p. 7742; Gaz. vol. 148; p. 1304.
- Deniport, E., Suresnes, France. Electric condenser. No. 934,714; Sept. 21; Sp. p. 3504; Gaz. vol. 146; p. 610.
- Deniport, E., Paris, France. Spark-distributor. No. 934,715; Sept. 21; Sp. p. 3506; Gaz. vol. 146; p. 610.
- Denison, F. W., Montreal, Quebec, assignor of one-half to G. W. Cook and I. S. Witherspoon, Montreal, Canada. Machine for trimming and cutting lengths of cloth or other material. No. 909,853; Jan. 12; Sp. p. 2847; Gaz. vol. 138; p. 501.
- Denison, F. W., Montreal, Quebec, assignor of one-half to G. W. Cook and I. S. Witherspoon, Montreal, Canada. Machine for cutting lengths of cloth, &c. No. 909,854; Jan. 12; Sp. p. 2850; Gaz. vol. 138; p. 502.
- Denison, N. B., Pawtucket, assignor of forty-nine one-hundredths to W. H. Herrick, Providence, R. I. Window-lock. No. 934,145; Sept. 14; Sp. p. 2412; Gaz. vol. 146; p. 395.
- Denison, W. C., Cleveland Heights, assignor to Ohio Clay Company, Cleveland, Ohio. Building-block. No. 942,621; Dec. 7; Sp. p. 1229; Gaz. vol. 149; p. 201.
- Denithorne, J. B., Coatesville, Pa. Conveyer. No. 909,765; Jan. 12; Sp. p. 2684; Gaz. vol. 138; p. 474.
- Denius, A. (See Sherron and Mason, assignors.)
- Dennan, C. K., and W. H. Murphy, Greeley, Colo. Extension-rule. No. 909,068; Jan. 5; Sp. p. 1302; Gaz. vol. 138; p. 209.
- Dennard, J. W., assignor of one-half to J. Christy, Akron, Ohio. Barrel. No. 934,051; Sept. 14; Sp. p. 2193; Gaz. vol. 146; p. 365.
- Denn, W. G., Philadelphia, Pa. Warp-balling machine. No. 942,813; Dec. 7; Sp. p. 1603; Gaz. vol. 149; p. 263.
- Dennlerline, E. L., Aurora, Ind. Safety-belt. No. 927,839; July 13; Sp. p. 2375; Gaz. vol. 144; p. 407.
- Denney, L. D., *et al.* (See Amsbury, W. N., assignor.)
- Denhardt, M. R., Honesdale, Pa. Window-guard. No. 923,153; June 1; Sp. p. 72; Gaz. vol. 143; p. 11.
- Dennick, L. L., Los Angeles, Cal. Index. No. 914,556; Mar. 9; Sp. p. 1899; Gaz. vol. 140; p. 324.
- Dennie, E. B., Newport News, Va. Carbureted-air apparatus. No. 933,064; Sept. 7; Sp. p. 52; Gaz. vol. 146; p. 9.
- Denning, J. M., Cedar Rapids, Iowa. Machine for making wire fence. No. 923,778; June 1; Sp. p. 1481; Gaz. vol. 143; p. 226.
- Denning, J. M., Cedar Rapids, Iowa. Slat-fence machine. No. 943,008; Dec. 14; Sp. p. 2109; Gaz. vol. 149; p. 362.
- Denning, J. M., assignor to Pyramid Post and Pole Company, Cedar Rapids, Iowa. Mold for making cement fence-posts. No. 909,875; Jan. 19; Sp. p. 2908; Gaz. vol. 138; p. 541.
- Denning, W. H., South Tottenham, London, England, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 914,121; Mar. 2; Sp. p. 994; Gaz. vol. 140; p. 158.
- Dennis, A. A., assignor to Veneer Machinery Company, Grand Rapids, Mich. Gluing veneers. (Reissue.) No. 13,034; Nov. 2; Sp. p. 1605; Gaz. vol. 148; p. 261.
- Dennis, D. D., Pecos, Tex. Water-wheel. No. 940,677; Nov. 23; Sp. p. 4960; Gaz. vol. 148; p. 846.
- Dennis, H. D., S. J. Evans, and W. Murdock, Cashion, Okla. Folding poultry-crate. No. 928,504; July 20; Sp. p. 3744; Gaz. vol. 144; p. 658.
- Dennis, J. A., Henderson, Ky. Collapsible fire-shield. No. 935,248; Sept. 28; Sp. p. 4572; Gaz. vol. 146; p. 813.
- Dennis, J. M., Cambridge City, assignor of twenty-five and one-half one-hundredths to W. H. Alford, twelve and three-fourths one-hundredths to S. Johnson, and twelve and three-fourths one-hundredths to F. Johnson, Indianapolis, Ind. Machine for the fecundation of plants. No. 926,690; June 29; Sp. p. 7464; Gaz. vol. 143; p. 1316.
- Dennis, S. K., Chicago, Ill., assignor to International Harvester Company. Hay-loader. No. 926,177; June 29; Sp. p. 6481; Gaz. vol. 143; p. 1147.
- Dennis, S. K., Chicago, Ill., assignor to International Harvester Company. Hay-loader. No. 931,734; Aug. 24; Sp. p. 4471; Gaz. vol. 145; p. 779.
- Dennis, W. (See De Tray, F. W., assignor.)
- Dennis, W., Milwaukee, Wis. Clutch. No. 925,760; June 22; Sp. p. 5608; Gaz. vol. 143; p. 973.
- Dennison, F. R., Oamaru, New Zealand. Spare wheel for motor-cars and the like. No. 932,969; Aug. 31; Sp. p. 7028; Gaz. vol. 144; p. 1208.
- Dennison Manufacturing Co. (See Wadsworth, G. A., assignor.)
- Dennison Manufacturing Company. (See Portmore, T. G., assignor.)
- Dennison, W. N., Merchantville, N. J., assignor to Victor Talking Machine Company. Combined speed regulator and brake. No. 927,504; July 13; Sp. p. 1639; Gaz. vol. 144; p. 295.
- Dennison, W. N., Merchantville, N. J., assignor to Victor Talking Machine Company. Counterbalanced sound-box. No. 927,505; July 13; Sp. p. 1643; Gaz. vol. 144; p. 295.
- Dennison, W. U., Youngstown, Ohio. Apparatus for shaping rolls. No. 939,590; Nov. 9; Sp. p. 2543; Gaz. vol. 148; p. 417.
- Dennler, A. G., assignor of one-half to W. F. Quigg, East Hampton, Conn. Insulator. No. 944,259; Dec. 28; Sp. p. 4767; Gaz. vol. 149; p. 843.
- Denny, C. W., Philadelphia, Pa. Fireproof structure. No. 930,160; Aug. 3; Sp. p. 1136; Gaz. vol. 145; p. 184.
- Denny, C. W., Middletown, Ohio, assignor to Barkelew Electric Manufacturing Company. Electric switch. No. 920,032; Apr. 27; Sp. p. 6564; Gaz. vol. 141; p. 1119.
- Denny, G. A., London, England. Ore-grinding machine. No. 909,286; Jan. 12; Sp. p. 1745; Gaz. vol. 138; p. 314.
- Denny, H. W., Indianapolis, Ind. Jar-holding device. No. 908,450; Jan. 5; Sp. p. 35; Gaz. vol. 138; p. 7.
- Deno, G., Elmont, Kans. Stock gripping and marking device. No. 916,681; Mar. 30; Sp. p. 6141; Gaz. vol. 140; p. 1100.
- Densley, J. (See Morgan and Densley.)
- Densmore Typewriter Company. (See Barron, W. J., assignor.)
- Densmore Typewriter Company. (See Barron and Merritt, assignors.)
- Densmore, W. H., Jr., and A. Hayton, assignors of one-fourth to T. J. Harrison and one-fourth to J. Maloney, Sabula, Iowa. Drinking-fountain. No. 929,569; July 27; Sp. p. 5910; Gaz. vol. 144; p. 1038.
- Denson, J. L., St. Louis, Mo. Anti-rail-spreader. No. 930,941; Aug. 10; Sp. p. 2716; Gaz. vol. 145; p. 464.
- Dent, J. (See Dunn, G. R., assignor.)
- Denton, A. J., Nebraska City, Nebr. Grain-car door. No. 936,764; Oct. 12; Sp. p. 2441; Gaz. vol. 147; p. 406.
- Denton, J. W., Owensboro, Ky. Trowel. No. 922,676; May 25; Sp. p. 5309; Gaz. vol. 142; p. 938.
- Denton, W. S., New York, N. Y. Spool for music-rolls. No. 914,811; Mar. 9; Sp. p. 2425; Gaz. vol. 140; p. 408.
- Dentz, T. J., New York, N. Y. Adjustable seat. No. 910,993; Jan. 26; Sp. p. 5210; Gaz. vol. 138; p. 939.
- Denver Rock Drill & Machinery Company. (See Waugh, D. S., assignor.)
- Deperdussin, A., Paris, France. Optical toy. No. 935,646; Oct. 5; Sp. p. 40; Gaz. vol. 147; p. 8.
- Deport, J. A., Paris, France. Anchoring wheeled gun-carriages to the ground. No. 910,794; Jan. 26; Sp. p. 4841; Gaz. vol. 138; p. 875.
- Deport, J. A., Paris, France. Gun-carriage for field ordnance. No. 939,399; Nov. 9; Sp. p. 2122; Gaz. vol. 148; p. 354.
- Depoy, H. L., Muncie, Ind., assignor to H. Graff, Jr., Waterloo, Iowa. Band-saw guide. No. 934,893; Sept. 21; Sp. p. 3851; Gaz. vol. 146; p. 669.
- Depp, H. A., Crafton, Pa. Curtain-fixture. No. 932,684; Aug. 31; Sp. p. 6477; Gaz. vol. 145; p. 1116.
- Deppe, D. F., Newbern, N. C. Cotton-planter. No. 928,949; July 27; Sp. p. 4648; Gaz. vol. 144; p. 834.
- Deppe, D. F., Newbern, N. C. Cultivator. No. 936,765; Oct. 12; Sp. p. 2442; Gaz. vol. 147; p. 406.
- Depute, O. B., Chicago, Ill., and C. F. Jenkins, Washington, D. C. Motion-picture camera. No. 934,894; Sept. 21; Sp. p. 3852; Gaz. vol. 146; p. 669.
- Deputy, E. E., assignor to E. A. Conway, Parkersburg, Pa. Razor-strop. No. 910,916; Jan. 26; Sp. p. 5070; Gaz. vol. 138; p. 914.
- Derby, H. R., Jerseyville, Ill. Roller. No. 925,308; June 15; Sp. p. 4671; Gaz. vol. 143; p. 797.
- Derby, S. B., North Tonawanda, assignor of one-half to W. J. Wall, Buffalo, N. Y. Clamp. No. 917,718; Apr. 6; Sp. p. 1472; Gaz. vol. 141; p. 258.



*Alphabetical list of patentees—Continued.*

- Derbyshire, F. W., assignor to American Watch Tool Company, Waltham, Mass. Tool-rest for watchmakers' lathes. No. 936,422; Oct. 12; Sp. p. 1733; Gaz. vol. 147; p. 290.
- Deretchin, J. (See Raskin and Deretchin.)
- Derr, W. R., Baltimore, Md. Window blind and screen. No. 930,743; Aug. 10; Sp. p. 2305; Gaz. vol. 145; p. 400.
- Derrick, A. F., and R. W. Garrison, Oakland, Cal. Ratchet-drill attachment. No. 944,955; Dec. 28; Sp. p. 6284; Gaz. vol. 149; p. 1080.
- Derrickson, C. W. (See Wolverton, Pixley, and Derrickson.)
- Dery, L. T., Montpelier, N. D. Lubricator. No. 909,162; Jan. 12; Sp. p. 1509; Gaz. vol. 138; p. 273.
- Des Jardins, B. M., Hartford, Conn., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Tabulating mechanism for type-writing machines. No. 926,716; June 29; Sp. p. 7526; Gaz. vol. 143; p. 1325.
- Des Jardins, B. M., West Hartford, assignor to Unitype Company, Manchester, Conn. Type setting and justifying machine. No. 935,968; Oct. 5; Sp. p. 784; Gaz. vol. 147; p. 117.
- Des Lauries, J. L., Boston, Mass. Monogram-holder. No. 936,766; Oct. 12; Sp. p. 2444; Gaz. vol. 147; p. 406.
- Des Moines Casket Company. (See Roe and Antes, assignors.)
- Desallier, U., North Yakima, Wash. Clevis. No. 912,089; Feb. 9; Sp. p. 2182; Gaz. vol. 139; p. 378.
- Deschamps, O., Moosup, Conn. Cook-stove attachment. No. 940,238; Nov. 16; Sp. p. 3962; Gaz. vol. 148; p. 674.
- Desenberg, M., Jr. (See Wayte, H., assignor.)
- Deshong, A. W. (See Crutchfield, C. H., assignor.)
- Desjardins, L. H., Cincinnati, Ohio. Dish-washer. No. 937,363; Oct. 19; Sp. p. 3665; Gaz. vol. 147; p. 631.
- Deskins, K. F., assignor of one-half to B. F. Dewees, Logan, W. Va. Sash holder and lock. No. 942,716; Dec. 7; Sp. p. 1416; Gaz. vol. 149; p. 232.
- Deslauriers, L. P. (See Deslauriers, P. A. and L. P.)
- Deslauriers, P. A. and L. P., St. Paul, Minn. Means for constructing concrete columns. No. 942,169; Dec. 7; Sp. p. 313; Gaz. vol. 149; p. 48.
- Deslauriers, P. A. and L. P., St. Paul, Minn. Means for forming concrete ceilings and supporting-columns. No. 944,543; Dec. 28; Sp. p. 5424; Gaz. vol. 149; p. 943.
- Deslot, E., assignor to Société Lecaron Fils, Paris, France. Apparatus for drying hair and furs. No. 941,980; Nov. 30; Sp. p. 7743; Gaz. vol. 148; p. 1304.
- Desmond, J., assignor to Artizan Brass Company, Chicago, Ill. Compound pump. No. 909,163; Jan. 12; Sp. p. 1512; Gaz. vol. 138; p. 274.
- Desmond, J., assignor to Artizan Brass Company, Chicago, Ill. Pressure-controlling valve for tire-pumps. No. 909,373; Jan. 12; Sp. p. 1910; Gaz. vol. 138; p. 341.
- Desotell, M., Marquette, Mich. Can-opener. No. 944,126; Dec. 21; Sp. p. 4505; Gaz. vol. 149; p. 774.
- Desplats, D., Buenos Ayres, Argentina. Door-check. No. 942,622; Dec. 7; Sp. p. 1231; Gaz. vol. 149; p. 201.
- Desprez, P. L., Lyon, France. Outer cover for pneumatic tires. No. 909,992; Jan. 19; Sp. p. 3150; Gaz. vol. 138; p. 582.
- Dessauer, M. (See Baruch and Dessauer.)
- Dester, J. F. (See Bolland, Gall, and Dester.)
- Desutter, A. (See Kasperek, F., assignor.)
- Desvaux, L., and H. Allaire, Paris, France. Plastic product. No. 929,660; Aug. 3; Sp. p. 33; Gaz. vol. 145; p. 8.
- Desy, I., assignor of one-third to S. S. Hobson and one-third to D. Taillon, Lewistown, Mont. Sulky-plow. No. 932,376; Aug. 24; Sp. p. 5794; Gaz. vol. 145; p. 990.
- Deterding, H. F., St. Louis, Mo. Automatic adjuster for seeding-machines. No. 912,825; Feb. 16; Sp. p. 3758; Gaz. vol. 139; p. 662.
- Deterding, H. F., St. Louis, Mo. Automatic adjuster for seeding-machines. No. 912,826; Feb. 16; Sp. p. 3762; Gaz. vol. 139; p. 662.
- Deterding, H. F., St. Louis, Mo. Means for operating furrow-openers of seeding-machines. No. 912,827; Feb. 16; Sp. p. 3769; Gaz. vol. 139; p. 663.
- Detlesen, G., Jersey City, N. J. Apparatus for mixing liquids with gases. No. 917,019; Apr. 6; Sp. p. 120; Gaz. vol. 141; p. 24.
- Detrick, B. E., New Albany, Ind. Telephone attachment. No. 929,404; July 27; Sp. p. 5623; Gaz. vol. 144; p. 986.
- Detrick, M. H., Chicago, Ill. Counterweight. No. 943,659; Dec. 21; Sp. p. 3532; Gaz. vol. 149; p. 614.
- Detroit Hoist & Machine Company. (See Fleming, J. C., assignor.)
- Detroit Oak Belting Company. (See Kolbe, A. G., assignor.)
- Detroit Shear Company. (See Searight, J. R., assignor.)
- Detroit Trust Co., trustee. (See Southgate, L. W., assignor.)
- Detroit Typomarker Company. (See Scott, B. W., assignor.)
- Dette, M. H., Woodcliff, N. J., assignor to A. Prybil, New York, N. Y. Cutter-head. No. 920,549; May 4; Sp. p. 927; Gaz. vol. 142; p. 149.
- Detlefbeck, E., and E. W. B. Powell, assignors of one-third to A. Nisbet and one-third to T. W. Baird, Denver, Colo. Vehicle-wheel. No. 939,190; Nov. 2; Sp. p. 1586; Gaz. vol. 148; p. 256.
- Dettka, M., Pittsburg, Pa. Folding box. No. 916,278; Mar. 23; Sp. p. 5315; Gaz. vol. 143; p. 941.
- Detman, J. F., and B. D. Courts, Manitowoc, Wis. Device for filling mattresses. No. 922,401; May 18; Sp. p. 4731; Gaz. vol. 142; p. 820.
- Detmer, J. R. F., Sunderland, England. Cargo vessel. No. 911,581; Feb. 9; Sp. p. 1090; Gaz. vol. 139; p. 213.
- Detwiler, C. J., Sissach, Switzerland. Letter-file. No. 908,755; Jan. 5; Sp. p. 695; Gaz. vol. 138; p. 108.
- Detwiler, C. A., assignor to J. G. Douple and H. S. Ream, Palmyra, Pa. Folding ironing-table. No. 923,117; May 25; Sp. p. 6232; Gaz. vol. 142; p. 1080.
- Detwiler, W. G., and J. E. Firebaugh, St. John, Kans. Straw and manure spreader. No. 934,146; Dec. 14; Sp. p. 2413; Gaz. vol. 146; p. 396.
- Deucher, R., Pittsburg, Pa. Curtain-pole. No. 922,100; May 18; Sp. p. 4131; Gaz. vol. 142; p. 722.
- Deunert, F. A., Kyabram, Victoria, Australia. Tire-inflation mechanism. No. 930,273; Aug. 3; Sp. p. 1319; Gaz. vol. 145; p. 218.
- Deutecom, B., Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Making alkali hydro-sulfates. No. 935,001; Sept. 28; Sp. p. 4084; Gaz. vol. 146; p. 732.
- Deutsch, H. W., New York, N. Y. Non-refillable bottle. No. 938,303; Oct. 26; Sp. p. 5668; Gaz. vol. 147; p. 965.
- Deutsch, H. W., New York, N. Y. Non-refillable bottle. No. 938,413; Oct. 26; Sp. p. 5922; Gaz. vol. 147; p. 1004.
- Deutsche Gasglühlicht Actien Gesellschaft (Auergesellschaft). (See Remané, H., assignor.)
- Deutsche Gasglühlicht Aktiengesellschaft (Auergesellschaft). (See Blau, F., assignor.)
- Deutsche Gasglühlicht Aktien Gesellschaft Auergesellschaft. (See Remané, Hurwitz, and Gottschalk, assignors.)
- Deutsche Glühstoff-Gesellschaft m. b. H. (See Hellmig, E. C. A., assignor.)
- Deutsche Waffen- und Munitionsfabriken. (See Gleinich, A., assignor.) (Reissue.)
- Deutsche Waffen- und Munitionsfabriken. (See Gohlke, M., assignor.)
- Deutsche Waffen- und Munitionsfabriken. (See Rapp, A., assignor.)
- Deutschmann, R. H., Hamburg, Germany. Obtaining animal serum. No. 914,644; Mar. 9; Sp. p. 2068; Gaz. vol. 140; p. 352.
- Devarco, P., Newark, N. J. Siphon-bottle. No. 938,746; Nov. 2; Sp. p. 637; Gaz. vol. 148; p. 101.
- Dever, T. E. (See Rose, A. G., Jr., assignor.)
- Deverell, A. C. (See Heron and Deverell.)
- Devermann, C. E., New York, N. Y. Ash-sifter. No. 915,078; Mar. 16; Sp. p. 2922; Gaz. vol. 140; p. 520.
- Devermann, C. E., New York, N. Y. Ash-sifter for stoves. No. 930,052; Aug. 3; Sp. p. 910; Gaz. vol. 145; p. 146.
- Devero, J. W. (See Lourie, Devero, and Ford.)
- Devers, L., Dayton, Ohio. Switch-shifting mechanism. No. 937,055; Oct. 19; Sp. p. 3031; Gaz. vol. 147; p. 530.
- Devillers, R., New York, N. Y. Fuel-briquet machinery. No. 920,838; May 4; Sp. p. 1506; Gaz. vol. 142; p. 243.
- Devine, J. F., administrator. (See Zschech, G. H.)
- Devine, J. F., Philadelphia, Pa. Cart. No. 943,064; Dec. 14; Sp. p. 2254; Gaz. vol. 149; p. 382.
- Devine, M. C., Sedalia, Mo. Fastening for freight-train doors. No. 933,632; Sept. 7; Sp. p. 1367; Gaz. vol. 146; p. 204.
- Devitalis, A. M. C. (See Fitzgerald and Devitalis.)
- Devlin, J. H., Providence, R. I. Pinless shuttle. No. 932,450; Aug. 31; Sp. p. 5952; Gaz. vol. 145; p. 1037.
- Devol, A. W., Demorest, Ga. Dust-pan. No. 926,927; July 6; Sp. p. 461; Gaz. vol. 144; p. 75.
- Devore, F. M., assignor of one-fourth to E. N. Campbell and one-fourth to H. J. Underwood, Council Bluffs, Iowa. Cow-milker. No. 913,108; Feb. 23; Sp. p. 4293; Gaz. vol. 139; p. 778.
- Devore, W. E., Gibson City, Ill. Washing-machine. No. 941,344; Nov. 23; Sp. p. 6371; Gaz. vol. 148; p. 1066.
- Devos, C., East St. Louis, Ill. Elevator. No. 925,462; June 22; Sp. p. 4966; Gaz. vol. 143; p. 876.
- Devoss, J. B., Indianapolis, Ind. Cooler and aspirator. No. 911,952; Feb. 9; Sp. p. 1811; Gaz. vol. 139; p. 335.
- Dewald, J. P. (See Dewald, L. and J. P.)
- Dewald, L., Copperas Cove, Tex. Cotton-chopper. No. 920,929; May 11; Sp. p. 1712; Gaz. vol. 142; p. 304.
- Dewald, L. and J. P., Copperas Cove, Tex. Cotton-chopper. No. 913,878; Mar. 2; Sp. p. 442; Gaz. vol. 140; p. 72.
- Dewar, J. A. (See Sprint, J. W., assignor.)
- Dewees, B. F. (See Deskins, K. F., assignor.)
- Dewein, W. E., G. S. Roberts, and J. B. Van Pelt, Galesburg, Ill.; said Roberts assignor to said Dewein and Van Pelt. Automatic switch. No. 921,810; May 18; Sp. p. 3534; Gaz. vol. 142; p. 627.
- Dewerpe, A., Cicero, Ind. Sanitary adhesive-moistener. No. 915,417; Mar. 16; Sp. p. 3625; Gaz. vol. 140; p. 631.

*Alphabetical list of patentees—Continued.*

- Dewey, A. G., Carbondale, Ill. Implement-frame. No. 935,144; Sept. 28; Sp. p. 4372; Gaz. vol. 146; p. 780.  
Dewey, C. A., assignor of one-half to J. F. Hutchison, Rockwell City, Iowa. Seed-corn rack. No. 929,922; Aug. 3; Sp. p. 639; Gaz. vol. 145; p. 102.  
Dewey, L. D., 2d, Detroit, Mich. Feed-cooker. No. 925,463; June 22; Sp. p. 4967; Gaz. vol. 143; p. 877.  
Dewey, R. E., Grand Rapids, Mich. Thermostat damper-regulator. No. 926,391; June 29; Sp. p. 6906; Gaz. vol. 143; p. 1216.  
Dewhirst, S., Oskaloosa, Iowa. Furnace. No. 912,828; Feb. 16; Sp. p. 3772; Gaz. vol. 139; p. 663.  
Dewoody, B., Franklin, Pa. Deep-well pump. No. 928,639; July 20; Sp. p. 4038; Gaz. vol. 144; p. 703.  
Dexter, C. E., Hampton, Va. Ellipsograph. No. 932,768; Aug. 31; Sp. p. 6654; Gaz. vol. 145; p. 1144.  
Dexter, G. L., Lancaster, N. H., assignor of one-half to H. D. Griswold, St. Johnsbury, Vt. Vegetable-washer. No. 917,020; Apr. 6; Sp. p. 121; Gaz. vol. 141; p. 24.  
Dexter, J. L. (See Kindig and Dexter.)  
Dexter, N. W., Los Angeles, Cal. Drafting-table support. No. 915,418; Mar. 16; Sp. p. 3627; Gaz. vol. 140; p. 632.  
Dexter, T. C. (See Cardell, C. O. L., assignor.)  
Dexter, T. C., Pearl River, N. Y. Paper-cutting machine. No. 923,154; June 1; Sp. p. 73; Gaz. vol. 143; p. 12.  
Dexter, T. C., Pearl River, N. Y. Paper-feeding machine. No. 925,879; June 22; Sp. p. 5857; Gaz. vol. 143; p. 1013.  
Dexter, T. C., Pearl River, N. Y. Paper-feeding machine. No. 937,024; Oct. 12; Sp. p. 2951; Gaz. vol. 147; p. 491.  
Dexter, T. C., Pearl River, N. Y. Paper-cutting machine. No. 937,514; Oct. 19; Sp. p. 4019; Gaz. vol. 147; p. 683.  
Dextraze, L. (See Jourdain and Dextraze.)  
Dey, A. (See Dey, J. and A.)  
Dey, H. E., Jersey City, N. J., assignor to B. T. Cable, New York, N. Y. Apparatus for controlling electric motors. No. 942,196; Dec. 7; Sp. p. 363; Gaz. vol. 149; p. 55.  
Dey, H. E., Jersey City, N. J., assignor to B. T. Cable, New York, N. Y. Apparatus for controlling electric motors. No. 942,197; Dec. 7; Sp. p. 365; Gaz. vol. 149; p. 55.  
Dey, H. E., Jersey City, N. J., assignor to B. T. Cable, New York, N. Y. Apparatus for controlling electric motors. No. 942,198; Dec. 7; Sp. p. 367; Gaz. vol. 149; p. 55.  
Dey, J., Syracuse, N. Y., and A. Dey, Glasgow, Scotland, assignors to Dey Time Register Company, Syracuse, N. Y. Time-registering clock. No. 908,971; Jan. 5; Sp. p. 1093; Gaz. vol. 138; p. 177.  
Dey, J., Syracuse, N. Y., and A. Dey, Glasgow, Scotland, assignors to Dey Time Register Company, Syracuse, N. Y. Time-recorder. No. 908,972; Jan. 5; Sp. p. 1100; Gaz. vol. 138; p. 177.  
Dey, J., Syracuse, N. Y., and A. Dey, Glasgow, Scotland, assignors to Dey Time Register Company, Syracuse, N. Y. Time-recorder. No. 908,973; Jan. 5; Sp. p. 1107; Gaz. vol. 138; p. 178.  
Dey, J. and A., assignors to Dey Time Register Company, Syracuse, N. Y. Workman's time-recorder. No. 908,974; Jan. 5; Sp. p. 1110; Gaz. vol. 138; p. 178.  
Dey, J. and A., assignors to Dey Time Register Company, Syracuse, N. Y. Time-recorder. No. 908,975; Jan. 5; Sp. p. 1123; Gaz. vol. 138; p. 178.  
Dey, J. and A., assignors to Dey Time Register Co., Syracuse, N. Y. Time-recorder. No. 908,976; Jan. 5; Sp. p. 1129; Gaz. vol. 138; p. 179.  
Dey, J. and A., assignors to Dey Time Register Company, Syracuse, N. Y. Time-recording mechanism. No. 930,357; Aug. 10; Sp. p. 1480; Gaz. vol. 145; p. 271.  
Dey, J. G. S., Syracuse, N. Y. Convertible office-desk. No. 928,185; July 13; Sp. p. 3067; Gaz. vol. 144; p. 522.  
Dey Time Register Company. (See Dey, J. and A., assignors.)  
Dey Time Register Company. (See Phillips, G. W., assignor.)  
Deyo, B. D., Detroit, Mich. Election-square rule and linotype-slug holder. No. 936,612; Oct. 12; Sp. p. 2140; Gaz. vol. 147; p. 355.  
Dezendorf, R. L., New York, N. Y. Combined liquid separator and indicator for gas-conduits. No. 914,812; Mar. 9; Sp. p. 2426; Gaz. vol. 140; p. 408.  
Dezendorf, R. L., Richmond Hill, N. Y. Gas-meter. No. 924,437; June 8; Sp. p. 2893; Gaz. vol. 143; p. 473.  
Dheyne, J., and A. Bovy, Brussels, Belgium. Elastic wheel-tire. No. 943,964; Dec. 21; Sp. p. 4150; Gaz. vol. 149; p. 719.  
Di Bella, F., New York, N. Y. Lock. No. 920,839; May 4; Sp. p. 1509; Gaz. vol. 142; p. 244.  
Di Fabio, I., Philadelphia, Pa. Bicycle. No. 924,438; June 8; Sp. p. 2894; Gaz. vol. 143; p. 474.  
Diamand, B. (See Wolman and Diamand.)  
Diamand, B., Idaweiche, Oberschlesien, Germany. Preserving wood and the like. No. 917,265; Apr. 6; Sp. p. 631; Gaz. vol. 141; p. 108.  
Diamand, B., Idaweiche, Oberschlesien, Germany. Neutralizing solutions of salts. No. 938,128; Oct. 26; Sp. p. 5294; Gaz. vol. 147; p. 905.  
Diamanti, H., and C. Lambert, Paris, France. Apparatus for recovering vapors issued from volatile liquids. No. 919,832; Apr. 27; Sp. p. 6178; Gaz. vol. 141; p. 1054.  
Diamond, A. F. W., Slocumb, Ala. Hay-press. No. 921,961; May 18; Sp. p. 3858; Gaz. vol. 142; p. 675.  
Diamond Expansion Bolt Company. (See Hiss, W. J., Jr., assignor.)  
Diamond Expansion Bolt Company. (See Villard, R. H., assignor.)  
Diamond, T. E., Montclair, N. J. Ash-can and other or similar receptacle. No. 931,918; Aug. 24; Sp. p. 4885; Gaz. vol. 145; p. 837.  
Diamond Whip Company. (See Flesch, H., assignor.)  
Diaz, L., Habana, Cuba. Mold. No. 912,829; Feb. 16; Sp. p. 3773; Gaz. vol. 139; p. 663.  
Dibbins, S. J., New York, N. Y. Friction-controlling device. No. 926,392; June 29; Sp. p. 6909; Gaz. vol. 143; p. 1216.  
Dibble, H. D., Mystic, S. D. Centrifugal separator. No. 921,371; May 11; Sp. p. 2640; Gaz. vol. 142; p. 454.  
Dibble, R. L. (See Fishburn, W. R., assignor.)  
Dibert, L. C., San Francisco, Cal. Vibrating shaker-screen. No. 941,862; Nov. 30; Sp. p. 7518; Gaz. vol. 148; p. 1264.  
Dibler, C. M., Jeannette, assignor of one-third to W. Ruwelo and J. Torco, West Newton, Pa. Mining-car. No. 920,033; Apr. 27; Sp. p. 6566; Gaz. vol. 141; p. 1119.  
Diboll, W. A. (See Lewis, C. A., assignor.)  
Dice, S. H., Newark, N. J. Eye-shade. No. 918,975; Apr. 20; Sp. p. 4205; Gaz. vol. 141; p. 735.  
Dice, T. M., Paxico, Kans. End-gate fastener. No. 944,544; Dec. 28; Sp. p. 5425; Gaz. vol. 149; p. 943.  
Dick, A. B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Printing-machine. No. 917,022; Apr. 6; Sp. p. 123; Gaz. vol. 141; p. 24.  
Dick, A. B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Printing-machine. No. 922,861; May 25; Sp. p. 5696; Gaz. vol. 142; p. 998.  
Dick, A. B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Stencil-duplicating apparatus. No. 922,862; May 25; Sp. p. 5700; Gaz. vol. 142; p. 999.  
Dick, A. B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Sheet-feeding apparatus. No. 929,292; July 27; Sp. p. 5380; Gaz. vol. 144; p. 948.  
Dick, A. B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Sheet-feeding apparatus. No. 929,293; July 27; Sp. p. 5386; Gaz. vol. 144; p. 948.  
Dick, J. A., assignor to M. E. Dick, Canandaigua, N. Y. Photographic-printing apparatus. No. 916,119; Mar. 23; Sp. p. 5027; Gaz. vol. 140; p. 890.  
Dick, M. E. (See Dick, J. A., assignor.)  
Dick, P. F., Didsbury, Alberta, Canada. Brush-cutter. No. 914,392; Mar. 9; Sp. p. 1581; Gaz. vol. 140; p. 269.  
Dick, S. M., Minneapolis, Minn. Portable water-heater. No. 914,393; Mar. 9; Sp. p. 1582; Gaz. vol. 140; p. 269.  
Dick, W. A. (See James and Dick.)  
Dick, W. A., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Commutator. No. 935,300; Sept. 28; Sp. p. 4672; Gaz. vol. 140; p. 830.  
Dickason, F. B., Shreveport, La. Street-cleaning machine. No. 922,677; May 25; Sp. p. 5310; Gaz. vol. 142; p. 938.  
Dicke, H., Frankfurt-on-the-Main, and E. Klinkmann, Zawodzie, near Kattowitz, assignors to Dellwik-Fleischer, Wassergas Gesellschaft m. b. H., Frankfurt-on-the-Main, Germany. Apparatus for welding tubes. No. 939,591; Nov. 9; Sp. p. 2545; Gaz. vol. 148; p. 418.  
Dickelman, L. H., assignor to Dickelman Manufacturing Company, Forest, Ohio. Eaves-trough. No. 932,254; Aug. 24; Sp. p. 5575; Gaz. vol. 145; p. 950.  
Dickelman Manufacturing Company. (See Dickelman, L. H., assignor.)  
Dickenson, B., New York, N. Y. Device for packing hats in trunks. No. 943,919; Dec. 21; Sp. p. 4064; Gaz. vol. 149; p. 704.  
Dicker, W. G., Gilby, N. D. Wrench. No. 935,002; Sept. 28; Sp. p. 4085; Gaz. vol. 146; p. 732.  
Dicker, W. G., Gilby, N. D. Automobile-tire. No. 943,396; Dec. 14; Sp. p. 2924; Gaz. vol. 149; p. 493.  
Dickerhoff, L., Brooklyn, N. Y. Can-opener. No. 943,736; Dec. 21; Sp. p. 3680; Gaz. vol. 149; p. 640.  
Dickerman, C. L., and W. Newman, Ardmore, Okla. Gas-stove. No. 908,451; Jan. 5; Sp. p. 37; Gaz. vol. 138; p. 3.  
Dickerson, A., assignor of one-fifth to N. M. Ambrose and two-fifths to H. D. Boley, American Fork, Utah. Hydraulic governor. No. 928,854; July 20; Sp. p. 4441; Gaz. vol. 144; p. 775.  
Dickerson, C. L., Clinton, Ill. Gage-glass. No. 940,860; Nov. 23; Sp. p. 5353; Gaz. vol. 148; p. 907.  
Dickerson, E. N., *et al.* (See Kendall, E. D., assignor.)  
Dickerson, N. W., Derwent, Ohio. Safety apparatus for mine-railways. No. 911,298; Feb. 2; Sp. p. 548; Gaz. vol. 139; p. 93.



*Alphabetical list of patentees—Continued.*

- Dickey, A. M. (See Dickey and Hoag.)
- Dickey, F. E., Newark, N. J. Jewelry. No. 915,834; Mar. 23; Sp. p. 4497; Gaz. vol. 140; p. 798.
- Dickey, G. A., A. M. Dickey, and C. H. Hoag, Judsonia, Ark. Metallic cross-tie. No. 923,820; June 8; Sp. p. 1638; Gaz. vol. 143; p. 271.
- Dickey, L. P., Philadelphia, Pa. Hollow-chain chandelier-support. No. 925,309; June 15; Sp. p. 4672; Gaz. vol. 143; p. 797.
- Dickey, S. J., assignor to United Gas Improvement Company, Philadelphia, Pa. Water-gas apparatus. No. 940,925; Nov. 23; Sp. p. 5479; Gaz. vol. 148; p. 929.
- Dickey, W. T. S., Mineralbluff, Ga. Locking-bolt. No. 931,735; Aug. 24; Sp. p. 4473; Gaz. vol. 145; p. 779.
- Dickie, G., San Francisco, Cal. Transom-operating device. No. 921,596; May 11; Sp. p. 3064; Gaz. vol. 142; p. 526.
- Dickie, G., San Francisco, Cal. Self-locking transom-operating device. No. 925,163; June 15; Sp. p. 4402; Gaz. vol. 143; p. 751.
- Dickinson, C. M., Cleveland, Ohio. Station or street indicator for cars. No. 923,341; June 1; Sp. p. 532; Gaz. vol. 143; p. 77.
- Dickinson, H. S., Moline, and J. R. Tyler, Chicago, Ill. Lantern. No. 918,131; Apr. 13; Sp. p. 2381; Gaz. vol. 141; p. 426.
- Dickinson, J. H. (See Cobell and Dickinson.)
- Dickinson, J. H. (See Miller and Dickinson.)
- Dickinson, J. H., Montclair, N. J. Portable cableway. No. 936,425; Oct. 12; Sp. p. 1742; Gaz. vol. 147; p. 291.
- Dickinson, J. H., Cranford, N. J., assignor to Aeolian Company, New York, N. Y. Adjustable tracker for pneumatic playing attachments. No. 915,942; Mar. 23; Sp. p. 4690; Gaz. vol. 140; p. 833.
- Dickinson, J. H., Cranford, N. J., assignor to Aeolian Company, New York, N. Y. Adjustable tracker-board for pneumatic playing attachments. No. 915,943; Mar. 23; Sp. p. 4691; Gaz. vol. 140; p. 833.
- Dickinson, J. H., Cranford, N. J., assignor to Aeolian Company, New York, N. Y. Expression device for pneumatic playing attachments for musical instruments. No. 916,279; Mar. 23; Sp. p. 5316; Gaz. vol. 140; p. 942.
- Dickinson, J. H., Cranford, N. J., assignor to Aeolian Company, New York, N. Y. Volume-controlling means for mechanical musical instruments. No. 926,178; June 29; Sp. p. 6485; Gaz. vol. 143; p. 1148.
- Dickinson, J. H., Montclair, N. J., and M. H. Dickinson, Seattle, Wash. Logging apparatus. No. 931,576; Aug. 17; Sp. p. 4091; Gaz. vol. 145; p. 704.
- Dickinson, M. H. (See Dickinson, J. H. and M. H.)
- Dickinson, M. M., Evanston, Ill. Truck. No. 931,849; Aug. 24; Sp. p. 4705; Gaz. vol. 145; p. 815.
- Dickinson, W., Buffalo, N. Y. Lock for pedestal extension-tables. No. 913,271; Feb. 23; Sp. p. 4638; Gaz. vol. 139; p. 832.
- Dickson, M. A. (See Patrick, C. W., assignor.)
- Dickson, E. A., assignor of one-half to E. W. Hurlbut, Denver, Colo. Carbureter. No. 939,481; Nov. 9; Sp. p. 2302; Gaz. vol. 148; p. 381.
- Dickson, F. H., Oswego, N. Y. Polishing-machine. No. 908,977; Jan. 5; Sp. p. 1136; Gaz. vol. 138; p. 179.
- Dickson, G. B., Springfield, assignor of one-fourth to J. S. Witty and one-fourth to T. B. Witty, Greene county, Mo. Extension-table. No. 913,204; Feb. 23; Sp. p. 4498; Gaz. vol. 139; p. 811.
- Dickson, G. F., Chicago, Ill., assignor to Confectioners and Bakers Supply Co. Brine-cooling apparatus. No. 931,687; Aug. 17; Sp. p. 4326; Gaz. vol. 145; p. 739.
- Dickson, G. F., assignor to Confectioners and Bakers Supply Co., Chicago, Ill. Mixing apparatus. No. 937,025; Oct. 12; Sp. p. 2959; Gaz. vol. 147; p. 491.
- Dickson, G. F., assignor to Confectioners and Bakers Supply Co., Chicago, Ill. Confectioner's melting-table. No. 938,414; Oct. 26; Sp. p. 5924; Gaz. vol. 147; p. 1004.
- Dickson, G. F., assignor to Confectioners and Bakers Supply Co., Chicago, Ill. Freezer. No. 941,767; Nov. 30; Sp. p. 7309; Gaz. vol. 148; p. 1231.
- Dickson, H. H., Orlando, Fla. Road-locking block. No. 930,161; Aug. 3; Sp. p. 1138; Gaz. vol. 145; p. 185.
- Dickson, J. F., Conway Springs, Kans. Music-leaf turner. No. 924,042; June 8; Sp. p. 2055; Gaz. vol. 143; p. 342.
- Dickson, J. T., *et al.* (See Bretney, H. R., assignor.)
- Dickson, T. E., Lott, Tex. Milk-cooler. No. 930,358; Aug. 10; Sp. p. 1492; Gaz. vol. 145; p. 271.
- Dickson, W. J., Mansfield, Ohio. Upholstering device. No. 916,120; Mar. 23; Sp. p. 5030; Gaz. vol. 140; p. 891.
- Dickson, W. M., *et al.* (See Jackson, G. A., assignor.)
- Didier, J. L., Knoxville, Tenn. Flue expander and beader. No. 941,190; Nov. 23; Sp. p. 6071; Gaz. vol. 148; p. 1019.
- Die Vereinigten Freiburger Uhrenfabriken Aktiengesellschaft, incl. vormals Gustav Becker. (See Bühler, J., assignor.)
- Diebel, W., Philadelphia, Pa. Safety-razor. No. 939,400; Nov. 9; Sp. p. 2123; Gaz. vol. 148; p. 354.
- Dieckmann, E. (See Herbst and Dieckmann.)
- Dieckmann, W. (See Rohrbach, Dieckmann, Gribling, and Grote.)
- Diederichs, R., Cologne, Germany. Dyeing apparatus. No. 923,342; June 1; Sp. p. 538; Gaz. vol. 143; p. 77.
- Diedler, J. H., *et al.* (See Dunfee, J. W., assignor.)
- Diefenbaugh, H., West Alexandria, Ohio. Mail-exchanging device. No. 942,717; Dec. 7; Sp. p. 1417; Gaz. vol. 149; p. 232.
- Diefenderfer, J. E., assignor of one-fourth to J. S. Gourley and one-fourth to H. F. Elving, Williamsfield, Ill. Combined mail-bag catcher and deliverer. No. 926,928; July 6; Sp. p. 462; Gaz. vol. 144; p. 75.
- Diefendorf, A. (See Reynolds and Buddington, assignors.)
- Diefendorf, O. G., assignor to International Brick Machine Company, Binghamton, N. Y. Brickmaking-machine. No. 930,053; Aug. 3; Sp. p. 911; Gaz. vol. 145; p. 146.
- Diefendorf, O. G., assignor to International Brick Machine Company, Binghamton, N. Y. Making articles of plastic materials. No. 934,395; Sept. 14; Sp. p. 2873; Gaz. vol. 146; p. 480.
- Diefenbach, O., and W. Moldenhauer, Darmstadt, Germany. Producing nitric oxides and nitric acid. No. 914,813; Mar. 9; Sp. p. 2428; Gaz. vol. 140; p. 408.
- Diefenbach, O., and W. Moldenhauer, Darmstadt, Germany. Electric furnace for gas reactions. No. 941,768; Nov. 30; Sp. p. 7312; Gaz. vol. 148; p. 1232.
- Diego, R. J. B. y, Habana, Cuba. Shaft-centering device. No. 919,819; Apr. 27; Sp. p. 6153; Gaz. vol. 141; p. 1049.
- Diehl, C. A., Cleveland, Ohio. Chloridizing ores. No. 938,044; Oct. 26; Sp. p. 5097; Gaz. vol. 147; p. 877.
- Diehl, C. W., New York, N. Y. Dredge. No. 939,227; Nov. 9; Sp. p. 1691; Gaz. vol. 148; p. 294.
- Diehl, F., Sheboygan Falls, Wis. Machine for preparing wood for gluing. No. 920,280; May 4; Sp. p. 412; Gaz. vol. 142; p. 63.
- Diehl, F., Sheboygan Falls, assignor to G. P. Myers, Sheboygan, Wis. Gearing. No. 944,323; Dec. 28; Sp. p. 4914; Gaz. vol. 149; p. 866.
- Diehl, F., Elizabeth, N. J., assignor to Diehl Manufacturing Company. Controller for electric motors. No. 938,649; Nov. 2; Sp. p. 445; Gaz. vol. 148; p. 69.
- Diehl, F., and A. F. Becker, Elizabeth, N. J., assignors to Diehl Manufacturing Company. Electric fan. No. 924,601; June 8; Sp. p. 3237; Gaz. vol. 143; p. 528.
- Diehl, J. J., Chicago, Ill. Temporary binder. No. 915,163; Mar. 16; Sp. p. 3129; Gaz. vol. 140; p. 549.
- Diehl, J. J., Chicago, Ill. Temporary or transfer binder. No. 935,591; Sept. 28; Sp. p. 5276; Gaz. vol. 146; p. 925.
- Diehl, L., Zweibrücken, Germany. Mechanism for propelling ships and other water-vehicles. No. 930,359; Aug. 10; Sp. p. 1493; Gaz. vol. 145; p. 271.
- Diehl Manufacturing Company. (See Diehl, F., assignor.)
- Diehl Manufacturing Company. (See Diehl and Becker, assignors.)
- Diehl Manufacturing Company. (See Marx, G. C., assignor.)
- Diehl Manufacturing Company. (See Miller, H. S., assignor.)
- Diehl Manufacturing Company. (See Zabriskie, H. L., assignor.)
- Diehl, P., and M. Hemleib, Elizabeth, N. J., assignors to Singer Manufacturing Company. Multiple-needle sewing-machine. No. 936,426; Oct. 12; Sp. p. 1745; Gaz. vol. 147; p. 291.
- Diehl, T. K., Allentown, Pa. Rail-joint. No. 931,577; Aug. 17; Sp. p. 4095; Gaz. vol. 145; p. 705.
- Dieleman, C., W. D. and J. D. Rietveld, Pella, Iowa. Manure-scraper. No. 928,186; July 13; Sp. p. 3069; Gaz. vol. 144; p. 522.
- Dieleman, C., W. D. and J. D. Rietveld, Pella, Iowa. Manure-loader. No. 928,187; July 13; Sp. p. 3071; Gaz. vol. 144; p. 523.
- Dielhenn, W. A., Massillon, Ohio. Adjustable garment. No. 920,115; May 4; Sp. p. 58; Gaz. vol. 142; p. 7.
- Dielhenn, W. A., Massillon, Ohio. Adjustable garment. No. 942,889; Dec. 14; Sp. p. 1824; Gaz. vol. 149; p. 321.
- Diem-Beutler, J., Bruggen, near St. Gallen, Switzerland. Producing a chain-stitch. No. 917,420; Apr. 6; Sp. p. 925; Gaz. vol. 141; p. 161.
- Diem, G. A., Flushing, N. Y. Marine water-closet. No. 924,646; June 15; Sp. p. 3343; Gaz. vol. 143; p. 576.
- Diemer, G. H. (See Zuech and Diemer.)
- Dier, F. F., Winnipeg, Manitoba, Canada. Gas-lighting appliance. No. 928,307; July 20; Sp. p. 3377; Gaz. vol. 144; p. 594.
- Dier, F. F., and M. Primeau, Winnipeg, Manitoba, Canada. Gas-lighting appliance. No. 928,505; July 20; Sp. p. 3747; Gaz. vol. 144; p. 659.
- Dierdorff, H. B., assignor to J. A. Jeffrey, Columbus, Ohio. Mining-machine. No. 945,000; Dec. 28; Sp. p. 6376; Gaz. vol. 149; p. 1095.
- Dierking, H. J., New York, N. Y. Powder-box. No. 919,549; Apr. 27; Sp. p. 5575; Gaz. vol. 141; p. 958.
- Dierks, E., Bryant, Iowa. Fertilizer-distributor. No. 943,065; Dec. 14; Sp. p. 2256; Gaz. vol. 149; p. 382.
- Diets, H. W., Red Wing, Minn. Insect-proof door and frame. No. 933,238; Sept. 7; Sp. p. 474; Gaz. vol. 146; p. 73.
- Dies, C. A., assignor of one-half to B. S. McClellan, Chicago, Ill. Vending-machine. No. 910,513; Jan. 26; Sp. p. 4269; Gaz. vol. 138; p. 784.
- Diesbach, H. von. (See Isler, Luttringhaus, and Diesbach.)
- Diescher, A. P., Pittsburgh, Pa. Clip or anchor for corner beads or strips. No. 943,590; Dec. 14; Sp. p. 3319; Gaz. vol. 149; p. 560.

*Alphabetical list of patentees—Continued.*

- Diescher, S., Pittsburg, Pa. Crib for filters. No. 922,101; May 18; Sp. p. 4132; Gaz. vol. 142; p. 722.
- Dieter, W. (See Shonnard and Dieter.)
- Dieterich, A. E., assignor of one-half to F. G. Dieterich, Washington, D. C. Vending-machine. No. 921,597; May 11; Sp. p. 3065; Gaz. vol. 142; p. 527.
- Dieterich, F. G. (See Dieterich, A. E., assignor.)
- Dieterich, F. G., Washington, D. C. Rice-hulling machine. No. 912,449; Feb. 16; Sp. p. 2937; Gaz. vol. 139; p. 533.
- Dieterich, J. A., assignor of one-half to G. Blumenstock, Cleveland, Ohio. Spring-wheel. No. 943,397; Dec. 14; Sp. p. 2925; Gaz. vol. 149; p. 493.
- Dieterich, N. B., St. Joseph, Mo. Chimney. No. 919,550; Apr. 27; Sp. p. 5577; Gaz. vol. 141; p. 958.
- Dieterle, F. (See Gley and Dieterle.)
- Dietrich, C. W. (See Hood, W. C., assignor.)
- Dietrich, H. A. R., South Bethlehem, Pa. Expansion-tank with liquid-relief. No. 941,235; Nov. 23; Sp. p. 6160; Gaz. vol. 148; p. 1033.
- Dietz, G. (See Vogt and Dietz.)
- Dietz, H. L., Chicago, Ill. Wringer. No. 914,814; Mar. 9; Sp. p. 2429; Gaz. vol. 140; p. 408.
- Dietz, J. A., Shanesville, Ohio. Draft device for agricultural implements. No. 919,551; Apr. 27; Sp. p. 5578; Gaz. vol. 141; p. 958.
- Dien, A., Medellin, Colombia. Ore washer and concentrator. No. 933,633; Sept. 7; Sp. p. 1369; Gaz. vol. 146; p. 204.
- Dieudonné, C. C., Washington, D. C. Remedial head-band. No. 910,362; Jan. 19; Sp. p. 3943; Gaz. vol. 138; p. 709.
- Dievendorf, J. R., Fulton, N. Y. Razor-stropping machine. No. 922,102; May 18; Sp. p. 4134; Gaz. vol. 142; p. 723.
- Diggs, D. W., New York, N. Y. Fire-extinguisher. No. 919,552; Apr. 27; Sp. p. 5579; Gaz. vol. 141; p. 959.
- Digman, F. M. (See Turner and Digman.)
- Digney, T., Bridgeport, Conn. Curtain-roller. No. 910,917; Jan. 26; Sp. p. 5073; Gaz. vol. 138; p. 914.
- Dike, D. W., Meenlyan, Victoria, Australia. Combination knee-rest and ear attachment for milking-buckets. No. 917,558; Apr. 6; Sp. p. 1170; Gaz. vol. 141; p. 204.
- Dijkers, G. J. O. D., Lonneker, near Hengelo, Netherlands. Stop or like valve. No. 940,239; Nov. 16; Sp. p. 3964; Gaz. vol. 148; p. 674.
- Dilgard, M. L. (See Scott and Dilgard.)
- Dill, A., Rantoul, Ill. Grain cleaner and drier. No. 923,498; June 1; Sp. p. 853; Gaz. vol. 143; p. 130.
- Dill, H. E., Dayton, Ohio, assignor of one-third to M. T. Woody and one-third to W. A. Scott, Indianapolis, Ind. Paper receptacle. No. 926,053; June 22; Sp. p. 6195; Gaz. vol. 143; p. 1070.
- Dill, H. E., and W. P. Marsh, Dayton, Ohio, assignors of one-third to said Dill, one-third to M. P. Woody, and one-third to W. A. Scott, Indianapolis, Ind. Machine for dipping articles into fluid-baths. No. 936,238; Oct. 5; Sp. p. 1312; Gaz. vol. 147; p. 201.
- Dill, H. E., and W. P. Marsh, Dayton, Ohio, assignors of one-third to said Dill, one-third to M. P. Woody, and one-third to W. A. Scott, Indianapolis, Ind. Crimping-machine. No. 942,899; Dec. 14; Sp. p. 1325; Gaz. vol. 149; p. 322.
- Dill, T. C., Philadelphia, Pa. Power-transmission mechanism. No. 929,405; July 27; Sp. p. 5624; Gaz. vol. 144; p. 986.
- Dill, T. C., Philadelphia, Pa. Gear-cutting machine. No. 938,304; Oct. 26; Sp. p. 5671; Gaz. vol. 147; p. 966.
- Dillander, J., Temple, Tex. Triple valve. No. 930,649; Aug. 10; Sp. p. 2111; Gaz. vol. 145; p. 368.
- Dillberg, G. (See Gadd and Dillberg.)
- Dillehay, G. W., assignor of one-half to W. A. Dillehay, Louisville, Ky. Locomotive. No. 917,559; Apr. 6; Sp. p. 1171; Gaz. vol. 141; p. 204.
- Dillehay, W. A. (See Dillehay, G. W., assignor.)
- Dillemoth, C. D. (See Mack, W. J., assignor.)
- Diller, C. F., Lancaster, Pa. Furnace. No. 928,907; July 20; Sp. p. 4566; Gaz. vol. 144; p. 795.
- Dillingham, F. A., Norwalk, assignor to Troy Carriage Sun Shade Company, Troy, Ohio. Wind-shield for vehicles. No. 914,557; Mar. 9; Sp. p. 1902; Gaz. vol. 140; p. 324.
- Dillingham, W. C., Los Angeles, Cal. Adjustable printing-press punch. No. 931,282; Aug. 17; Sp. p. 3526; Gaz. vol. 145; p. 609.
- Dillon, D., and H. J. Welsh, Pittsburg, Pa. Condiment-holder. No. 925,464; June 22; Sp. p. 4968; Gaz. vol. 143; p. 877.
- Dillon, F. P., Milford, Mass. Shingling appliance. No. 917,553; Apr. 13; Sp. p. 1787; Gaz. vol. 141; p. 328.
- Dillon, J., Hackensack, N. J. Horseshoe-pad. No. 909,287; Jan. 12; Sp. p. 1746; Gaz. vol. 138; p. 814.
- Dillon, J. C., Brooklyn, N. Y. Music-rack. No. 925,465; June 22; Sp. p. 4969; Gaz. vol. 143; p. 877.
- Dillon, M. M., York township, Washtenaw county, Mich. Stove. No. 919,553; Apr. 27; Sp. p. 5581; Gaz. vol. 141; p. 959.
- Dillon, F. W. and W. M., Sterling, Ill. Wire fence. No. 908,757; Jan. 5; Sp. p. 699; Gaz. vol. 138; p. 108.
- Dillon, S., Edgewood Park, and J. Richardson, North Braddock, Pa. Engine-starting device. No. 918,976; Apr. 20; Sp. p. 4208; Gaz. vol. 141; p. 735.
- Dillon, W. M. (See Dillon, P. W. and W. M.)
- Dilow, J. A., Dongola, Ill. Sash-fastener. No. 943,301; Dec. 14; Sp. p. 2730; Gaz. vol. 149; p. 461.
- Dilts, H. I., assignor to Neptune Meter Company, Long Island City, N. Y. Fitting for water-meters. No. 910,514; Jan. 26; Sp. p. 4273; Gaz. vol. 138; p. 784.
- Dilts, H. I., assignor to Neptune Meter Company, New York, N. Y. Water-meter. No. 941,563; Nov. 30; Sp. p. 6860; Gaz. vol. 148; p. 1162.
- Dilworth, J. D. (See Winder, S. E., assignor.)
- Dilworth, L., assignor to Dilworth, Porter & Company, Limited, Pittsburg, Pa. Railway-tie plate. No. 928,429; July 20; Sp. p. 3593; Gaz. vol. 144; p. 635.
- Dilworth, Porter & Company. (See Dilworth, L., assignor.)
- Dimand, J., et al. (See Steingassner, H., assignor.)
- Dimick, A. D., Wakefield, Mass. Piano-action. No. 932,685; Aug. 31; Sp. p. 6478; Gaz. vol. 145; p. 1116.
- Dimick, A. D., Wakefield, Mass. Piano-action. No. 933,024; Aug. 31; Sp. p. 7140; Gaz. vol. 145; p. 1227.
- Dimick, D. B., assignor to American Casting Company, Birmingham, Ala. Casting pipe. No. 937,582; Oct. 19; Sp. p. 4148; Gaz. vol. 147; p. 706.
- Dimick, J. R., Salem, Oreg. Machine for topping and cleaning onion-sets. No. 936,224; Oct. 5; Sp. p. 1290; Gaz. vol. 147; p. 197.
- Dimick, L., South Whitley, Ind. Door for grain-cars. No. 915,566; Mar. 16; Sp. p. 3944; Gaz. vol. 140; p. 681.
- Dimm, C. M., et al. (See Morris, C. C., assignor.)
- Dimmick, J. K., Philadelphia, Pa. Core for hollow castings. No. 922,678; May 25; Sp. p. 5311; Gaz. vol. 142; p. 938.
- Dimmick, J. O., Los Angeles, Cal. Slime-breaking attachment for ore-dressing machines. No. 927,954; July 13; Sp. p. 2625; Gaz. vol. 144; p. 446.
- Dimmitt, R. E. (See Green, H., assignor.)
- Dimond, I. G., Toledo, Ohio. Needle-shower. No. 924,602; June 8; Sp. p. 3239; Gaz. vol. 143; p. 528.
- Dimond, R. S., South Greensburg, assignor of one-half to A. C. Hunker, Greensburg, Pa. Regulator. No. 938,372; Oct. 26; Sp. p. 5326; Gaz. vol. 147; p. 989.
- Dimpsey-Hammer Company. (See Hammer, L. C., assignor.)
- Dineen, J., Chicago, Ill. Fish-stringer. No. 927,840; July 13; Sp. p. 2377; Gaz. vol. 144; p. 407.
- Dinger, P., assignor of one-half to W. L. Rose, Cleveland, Ohio. Telegraphic transmitter. No. 920,034; Apr. 27; Sp. p. 6567; Gaz. vol. 141; p. 1119.
- Dingsley, H. M., Hastings, Nebr. Adjustable trace-support and skirt-end loop. No. 919,554; Apr. 27; Sp. p. 5584; Gaz. vol. 141; p. 960.
- Dingsley, H. M., Hastings, Nebr. Hame-breast-strap attachment. No. 919,555; Apr. 27; Sp. p. 5585; Gaz. vol. 141; p. 960.
- Dininger, S. W. (See Llewellyn, G. W., assignor.)
- Dinkel, E. S., Bridgewater, Va. Curtain-support. No. 920,440; May 4; Sp. p. 712; Gaz. vol. 142; p. 113.
- Dinkelspiel, J. S., San Francisco, Cal. Computing device. No. 938,222; Oct. 26; Sp. p. 5493; Gaz. vol. 147; p. 939.
- Dinke, C. E., Braddock, Pa. Transfer-car. No. 922,103; May 18; Sp. p. 4138; Gaz. vol. 142; p. 723.
- Dinkle, C. F., Carlisle, Pa. Tire. No. 935,192; Sept. 28; Sp. p. 4463; Gaz. vol. 146; p. 794.
- Dinsmoor, J. L., assignor to H. M. Hirschberg, New York, N. Y. Resistance. No. 910,795; Jan. 26; Sp. p. 4843; Gaz. vol. 138; p. 875.
- Dinsmoor, J. L., New York, assignor of one-half to H. Hertzberg, Brooklyn, N. Y. Lamp-globe. No. 923,155; June 1; Sp. p. 75; Gaz. vol. 143; p. 12.
- Dinsmore, S. A. (See Leach, J. W., assignor.)
- Dion, A. de, and G. Bouton, assignors to Etablissements de Dion-Bouton (Société Anonyme), Puteaux, France. Governor or speed-regulator. No. 933,367; Sept. 7; Sp. p. 756; Gaz. vol. 146; p. 118.
- Dion, F., Manchester, N. H. Bobbin for filling-replenishing looms. No. 936,524; Oct. 12; Sp. p. 1960; Gaz. vol. 147; p. 323.
- Dion, L., assignor to Americus Electro-Hermatic Company, New York, N. Y. Apparatus for recovering metals from ores and other substances. No. 925,626; June 22; Sp. p. 5289; Gaz. vol. 143; p. 930.
- Dion, N., Springfield, Mass. Window-fastener. No. 943,398; Dec. 14; Sp. p. 2926; Gaz. vol. 149; p. 493.
- Dionne, C. J., Cambridge, assignor to United Drug Company, Boston, Mass. Heating and storage system for chocolate-composition coatings. No. 943,239; Dec. 14; Sp. p. 2597; Gaz. vol. 149; p. 439.
- Diperno, C. (See Phillips, Diperno, and Mongell.)
- Dippel, J. J., Evansville, Ind. Draft-rigging. No. 927,333; July 6; Sp. p. 1272; Gaz. vol. 144; p. 210.
- Dirking, F. L., assignor of one-sixth to J. D. Miner and one-sixth to J. A. Felkey, Spokane, Wash. Electrically-operated price-card. No. 926,393; June 29; Sp. p. 6910; Gaz. vol. 143; p. 1216.



*Alphabetical list of patentees—Continued.*

- Dirrim, T. H. (See Burke, S. E., assignor.)
- Disbrow, L. A. (See Disbrow, R. B., assignor.)
- Disbrow, R. B., Minneapolis, assignor of one-half to L. A. Disbrow, Owatonna, Minn. Oil-burner. No. 926,473; June 29; Sp. p. 7051; Gaz. vol. 143; p. 1243.
- Diserens, R. F., assignor to Blaisdell Machinery Company, Bradford, Pa. Dry separator for dust-removing apparatus. No. 932,686; Aug. 31; Sp. p. 6480; Gaz. vol. 145; p. 1117.
- Diserens, R. F., assignor to Blaisdell Machinery Company, Bradford, Pa. Wet separator for dust-removing apparatus. No. 942,891; Dec. 14; Sp. p. 1828; Gaz. vol. 149; p. 322.
- Dishman, M., Bowling Green, Ky. Cup. No. 941,236; Nov. 23; Sp. p. 6164; Gaz. vol. 148; p. 1034.
- Diskin, M. B., New York, N. Y. Tape-applying mechanism. No. 912,545; Feb. 16; Sp. p. 3154; Gaz. vol. 139; p. 566.
- Diskin, M. B., New York, N. Y. Paper. No. 914,394; Mar. 9; Sp. p. 1584; Gaz. vol. 140; p. 269.
- Diskin, M. B., New York, N. Y. Non-refillable bottle. No. 932,687; Aug. 31; Sp. p. 6482; Gaz. vol. 145; p. 1117.
- Dismuke, W. H. (See Morton and Dismuke.)
- Dismuth, L. S., assignor of one-half to W. T. Frey, Cincinnati, Ohio. Pipe or hose coupling. No. 912,233; Feb. 9; Sp. p. 2440; Gaz. vol. 139; p. 421.
- Diss, A. E., Newark, N. J., assignor to Universal Caster & Foundry Company. Caster for tubular legs for furniture. No. 911,213; Feb. 2; Sp. p. 374; Gaz. vol. 139; p. 65.
- Diss, A. B., Newark, N. J., assignor to Universal Caster & Foundry Company. Caster for tubular legs for furniture. No. 911,214; Feb. 2; Sp. p. 375; Gaz. vol. 139; p. 65.
- Diss, A. B., Newark, N. J., assignor to Universal Caster & Foundry Company. Adjustable chair. No. 943,920; Dec. 21; Sp. p. 4065; Gaz. vol. 149; p. 704.
- Diss, L. A., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Machine for making dies or matrices for the manufacture of type, &c. No. 923,252; June 1; Sp. p. 272; Gaz. vol. 143; p. 45.
- Diss, L. A., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Machine for making dies for the manufacture of type for type-writing machines, &c. No. 924,539; June 8; Sp. p. 3102; Gaz. vol. 143; p. 507.
- Diss, L. P., Ilion, N. Y. Type-writer. No. 935,301; Sept. 28; Sp. p. 4673; Gaz. vol. 146; p. 830.
- Diss, L. P., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 914,123; Mar. 2; Sp. p. 1000; Gaz. vol. 140; p. 158.
- Disser, L. J., Chicago, Ill. Coin-controlled vending-machine. No. 917,266; Apr. 6; Sp. p. 633; Gaz. vol. 141; p. 108.
- Dister, J., Hamilton, Ohio, assignor to American Can Company, New York, N. Y. Bail-ear and cover-holder for pails. No. 922,104; May 18; Sp. p. 4139; Gaz. vol. 142; p. 723.
- Ditchfield, F., Bellevue, assignor to Pressed Steel Car Company, Pittsburg, Pa. Bending apparatus. No. 943,967; Dec. 21; Sp. p. 4156; Gaz. vol. 149; p. 720.
- Ditchfield, F., Bellevue, assignor to Pressed Steel Car Company, Pittsburg, Pa. Making bolsters and similar articles. No. 943,968; Dec. 21; Sp. p. 4157; Gaz. vol. 149; p. 720.
- Dittmar, A. C., Davenport, Wash. Currycomb. No. 934,799; Sept. 21; Sp. p. 3675; Gaz. vol. 146; p. 638.
- Dittmar, A. C., Davenport, Wash. Journal for agricultural implements. No. 941,191; Nov. 23; Sp. p. 6073; Gaz. vol. 148; p. 1019.
- Dittbenner, H. G., Minneapolis, Minn. Water-purifier. No. 917,933; Apr. 13; Sp. p. 1961; Gaz. vol. 141; p. 356.
- Dittbenner, H. G., Minneapolis, Minn. Horizontal band-saw mill. No. 919,556; Apr. 27; Sp. p. 5586; Gaz. vol. 141; p. 960.
- Dittbenner, H. G., Minneapolis, Minn. Band-saw-tension device. No. 920,035; Apr. 27; Sp. p. 5569; Gaz. vol. 141; p. 1120.
- Dittbenner, H. G., Minneapolis, Minn. Band-saw mill. No. 936,314; Oct. 12; Sp. p. 1467; Gaz. vol. 147; p. 254.
- Dittmar, F. (See Dittmar, G., assignor.)
- Dittmar, G., Washington, D. C. Device for preventing seasickness. No. 920,441; May 4; Sp. p. 714; Gaz. vol. 142; p. 113.
- Dittmar, G., assignor of one-half to F. Dittmar, Washington, D. C. Swing. No. 910,994; Jan. 26; Sp. p. 5211; Gaz. vol. 138; p. 939.
- Dittmar, L. J., Louisville, Ky. Change-making machine. No. 920,281; May 4; Sp. p. 415; Gaz. vol. 142; p. 63.
- Diver, D., Deerfield, Mich. Filtering apparatus. No. 935,359; Sept. 28; Sp. p. 4804; Gaz. vol. 146; p. 849.
- Divine, R. D., Chicago, Ill. Separation of metals. No. 921,372; May 11; Sp. p. 2644; Gaz. vol. 142; p. 454.
- Divine, S. R., Loch Sheldrake, N. Y. Toy musical instrument. No. 931,578; Aug. 17; Sp. p. 4096; Gaz. vol. 145; p. 705.
- Dixon, A. F., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Panel construction for switchboards. No. 918,513; Apr. 20; Sp. p. 3164; Gaz. vol. 141; p. 530.
- Dixon, A. F., assignor to Western Electric Company, Chicago, Ill. Electric signal. No. 944,545; Dec. 28; Sp. p. 5427; Gaz. vol. 149; p. 943.
- Dixon, C. A., Newark, N. J. Hoisting apparatus. No. 920,930; May 11; Sp. p. 1714; Gaz. vol. 142; p. 304.
- Dixon, E., Bristol, R. I. Top-roll saddle. No. 912,650; Feb. 16; Sp. p. 3354; Gaz. vol. 139; p. 602.
- Dixon, E., Bristol, R. I. Weight-strap for spinning-machines. No. 912,651; Feb. 16; Sp. p. 3355; Gaz. vol. 139; p. 603.
- Dixon, G. L., Dolgeville, assignor to Dixon Manufacturing Company, Los Angeles, Cal. Laundry-marker. No. 908,847; Jan. 5; Sp. p. 864; Gaz. vol. 138; p. 136.
- Dixon, H., Balmly Beach, Ontario, Canada, assignor to J. L. Peacock, Buffalo, N. Y. Mechanism for operating car-brakes. No. 925,466; June 22; Sp. p. 4972; Gaz. vol. 143; p. 877.
- Dixon, J., Cleveland, Ohio. Telephone-receiver. No. 915,079; Mar. 16; Sp. p. 2924; Gaz. vol. 140; p. 521.
- Dixon, J., Philadelphia, Pa. Disintegrating-cylinder. No. 927,955; July 13; Sp. p. 2626; Gaz. vol. 144; p. 446.
- Dixon, J. F., Carthage, Mo. Bed-spring. No. 930,538; Aug. 10; Sp. p. 1885; Gaz. vol. 145; p. 333.
- Dixon, M., Pittsburg, Pa. Ratchet pipe-threader. No. 921,518; May 11; Sp. p. 2928; Gaz. vol. 142; p. 503.
- Dixon Manufacturing Company. (See Dixon, G. L., assignor.)
- Dixon, P., Atlanta, Ga. Automatic cut-off. No. 942,623; Dec. 7; Sp. p. 1232; Gaz. vol. 149; p. 201.
- Dixon, R. M. (See Erb, E. M., assignor.)
- Dixon, R. M., Martinsburg, W. Va. Lid-holder for vessels. No. 928,855; July 20; Sp. p. 4443; Gaz. vol. 144; p. 775.
- Dixon, R. M., East Orange, N. J., assignor to Safety Car Heating & Lighting Company. Filling-valve for expansion-drums. No. 914,124; Mar. 2; Sp. p. 1013; Gaz. vol. 140; p. 159.
- Dixon, R. M., East Orange, N. J., assignor to Safety Car Heating & Lighting Company. Coupling-hose. No. 918,514; Apr. 20; Sp. p. 3166; Gaz. vol. 141; p. 581.
- Dixon, R. M., East Orange, N. J., assignor to Safety Car Heating & Lighting Company. Gas-lighting apparatus. No. 926,474; June 29; Sp. p. 7052; Gaz. vol. 143; p. 1244.
- Dixon, R. M., East Orange, N. J., assignor to Safety Car Heating & Lighting Company. Acetylene-gas buoy. No. 926,475; June 29; Sp. p. 7055; Gaz. vol. 143; p. 1244.
- Dixon, R. M., East Orange, N. J., assignor to Safety Car Heating & Lighting Company. Globe-holder. No. 927,718; July 13; Sp. p. 2115; Gaz. vol. 144; p. 367.
- Dixon, R. M., East Orange, N. J., assignor to Safety Car Heating & Lighting Company. Gas-lighting apparatus. No. 927,719; July 13; Sp. p. 2119; Gaz. vol. 144; p. 367.
- Dixon, T. B., New York, N. Y. Telegraphy. No. 922,462; May 25; Sp. p. 4859; Gaz. vol. 142; p. 868.
- Dixon, T. B., New York, N. Y. Telegraph system and apparatus. No. 939,401; Nov. 9; Sp. p. 2125; Gaz. vol. 148; p. 354.
- Dixon, W. L. (See Dixon, W. W. and W. L.)
- Dixon, W. L., assignor to Reece Folding Machine Company, Boston, Mass. Machine for folding collar-blanks and the like. No. 932,769; Aug. 31; Sp. p. 6656; Gaz. vol. 145; p. 1144.
- Dixon, W. W. and W. L., assignors to Reece Folding Machine Company, Boston, Mass. Folding-machine. No. 924,149; June 8; Sp. p. 2280; Gaz. vol. 143; p. 377.
- Dixon, Z., Chicago, Ill. Barrel head and hoop fastener. No. 938,650; Nov. 2; Sp. p. 450; Gaz. vol. 148; p. 70.
- Dixson, J. W., and T. McKinley, Seattle, Wash. Floor surfacing and sandpapering machine. No. 915,080; Mar. 16; Sp. p. 2825; Gaz. vol. 140; p. 521.
- Drugoszky, J., Niles, Ohio. Burner. No. 944,324; Dec. 28; Sp. p. 4915; Gaz. vol. 149; p. 866.
- Doan, A., Oakland, Cal. Supplemental air-brake mechanism. No. 934,293; Sept. 14; Sp. p. 2676; Gaz. vol. 146; p. 445.
- Doane, F. C., and F. E. Ceeder, assignors of one-third to W. A. MacKenzie, Spokane, Wash. Automatic pipe-coupling. No. 940,678; Nov. 23; Sp. p. 4962; Gaz. vol. 148; p. 846.
- Doane, F. H., Scranton, Pa. Cover for ash-cans. No. 918,295; Apr. 13; Sp. p. 2714; Gaz. vol. 141; p. 490.
- Doane, J. C., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 921,598; May 11; Sp. p. 3078; Gaz. vol. 142; p. 527.
- Doane, J. C., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 921,599; May 11; Sp. p. 3073; Gaz. vol. 142; p. 528.
- Doane, J. C., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 926,054; June 22; Sp. p. 6196; Gaz. vol. 143; p. 1070.
- Doane, J. C., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 928,856; July 20; Sp. p. 4445; Gaz. vol. 144; p. 775.

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- Doane, J. C., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 934,431; Sept. 21; Sp. p. 2952; Gaz. vol. 146; p. 515.
- Doane, R. A., assignor of nine-twentieths to N. B. Nelson, Palo Alto, Cal. Gas-pressure regulator. No. 916,943; Mar. 30; Sp. p. 6639; Gaz. vol. 140; p. 1183.
- Doans, G. B., *et al.* (See Wheildon, W. M., assignor.)
- Dobbs, A. E., Winona, Minn. Headlight for vehicles. No. 929,197; July 27; Sp. p. 5172; Gaz. vol. 144; p. 916.
- Dobbs, C., Dallas, Tex. Car-coupling. No. 927,334; July 6; Sp. p. 1273; Gaz. vol. 144; p. 210.
- Dobbs, C., Haskell, N. J., assignor to Lafin and Rand Powder Company, New York, N. Y. Powder-cutting machine. No. 939,895; Nov. 9; Sp. p. 3173; Gaz. vol. 148; p. 524.
- Dobey, A., Timewell, Ill. Hay-tedder. No. 938,129; Oct. 26; Sp. p. 5295; Gaz. vol. 147; p. 905.
- Dobias, J. F., Auburn, N. Y. Ink-well. No. 924,970; June 15; Sp. p. 4031; Gaz. vol. 143; p. 686.
- Dobie, W. S., assignor of two-thirds to O. J. McGoldrick and B. B. McGoldrick, San Antonio, Tex. Pump. No. 922,269; May 18; Sp. p. 4480; Gaz. vol. 142; p. 777.
- Dobin, T. J. (See Randall, T. L., assignor.)
- Doble, H. W., *et al.* (See Doble, W. H., assignor.)
- Doble, H. W., *et al.* (See Doble and Wheaton, assignors.)
- Doble, M. E. (See Doble, W. A., assignor.)
- Doble, R. M., assignor to Abner Doble Company, San Francisco, Cal. Impact water-motor. No. 924,150; June 8; Sp. p. 2292; Gaz. vol. 143; p. 377.
- Doble, R. M., and A. Rosenthal, assignors to Abner Doble Company, San Francisco, Cal. Deflector-hood control for tangential water-wheels. No. 929,198; July 27; Sp. p. 5174; Gaz. vol. 144; p. 917.
- Doble, W. A., assignor to M. E. Doble, San Francisco, Cal. Hydraulic nozzle. No. 926,055; June 22; Sp. p. 6199; Gaz. vol. 143; p. 1071.
- Doble, W. A., San Francisco, Cal., assignor to M. E. Doble. Regulating-nozzle. No. 941,440; Nov. 30; Sp. p. 6614; Gaz. vol. 148; p. 1121.
- Doble, W. H., Quincy, Mass. Package-filling machine. No. 923,779; June 1; Sp. p. 1501; Gaz. vol. 143; p. 227.
- Doble, W. H., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Carton-marking attachment for packaging-machines. No. 927,225; July 6; Sp. p. 1082; Gaz. vol. 144; p. 176.
- Doble, W. H., assignor of three-fourths to H. W. Doble and one-fourth to Pneumatic Scale Corporation Limited, Quincy, Mass. Knock-down shipping-case or box. No. 941,014; Nov. 23; Sp. p. 5679; Gaz. vol. 148; p. 959.
- Doble, W. H., Quincy, and C. M. Wheaton, Newton, assignors of three-fourths to H. W. Doble and one-fourth to Pneumatic Scale Corporation Limited, Quincy, Mass. Folding box or shipping-case. No. 941,013; Nov. 23; Sp. p. 5674; Gaz. vol. 148; p. 958.
- Dobry, J. St. Paul, Nebr. Hog-trap. No. 939,228; Nov. 9; Sp. p. 1694; Gaz. vol. 148; p. 294.
- Dochat, C. J., *et al.* (See Baker, C. L., assignor.)
- Dockery, R. F., Santa Monica, Cal. Machine for making continuous pipes. No. 938,223; Oct. 26; Sp. p. 5494; Gaz. vol. 147; p. 939.
- Dockray, P. J., Woonsocket, R. I. Traverse-bar movement for textile-machines. No. 917,719; Apr. 6; Sp. p. 1474; Gaz. vol. 141; p. 253.
- Dod, G. E., Maryborough, Queensland, Australia. Internal-combustion gas-turbine. No. 939,229; Nov. 9; Sp. p. 1700; Gaz. vol. 148; p. 295.
- Dodd, C. V. (See Ruppert and Dodd.)
- Dodd, E. L., Coudersport, Pa. Trace-buckle. No. 923,821; June 8; Sp. p. 1640; Gaz. vol. 143; p. 271.
- Dodd, F. W., Rodwell, Weymouth, England. Variable-speed and reversing gear. No. 934,716; Sept. 21; Sp. p. 3508; Gaz. vol. 146; p. 611.
- Dodd, S. W. (See Drake and Dodd.)
- Dodd, W. G., San Francisco, Cal. Concentrating-table. No. 908,758; Jan. 5; Sp. p. 700; Gaz. vol. 138; p. 109.
- Dodd, W. L., Westville, and F. E. Comstock, Valparaiso, Ind. Seed-planter. No. 916,539; Mar. 30; Sp. p. 5877; Gaz. vol. 140; p. 1054.
- Doddridge, J. M. and W. I., Milton, Ind. Collapsible pillow. No. 924,893; June 15; Sp. p. 3868; Gaz. vol. 143; p. 659.
- Doddridge, J. M. and W. I., Milton, Ind. Grave-lining. No. 924,894; June 15; Sp. p. 3869; Gaz. vol. 143; p. 660.
- Doddridge, J. M. and W. I., Milton, Ind. Grave-lining. No. 924,895; June 15; Sp. p. 3871; Gaz. vol. 143; p. 660.
- Doddridge, J. M. and W. I., Milton, Ind. Grave-lining. No. 924,896; June 15; Sp. p. 3872; Gaz. vol. 143; p. 660.
- Doddridge, J. M. and W. I., Milton, Ind. Collapsible grave-pillow. No. 924,971; June 15; Sp. p. 4032; Gaz. vol. 143; p. 686.
- Doddridge, W. I. (See Doddridge, J. M. and W. I.)
- Dodds, E. I., Central Valley, N. Y. Motor-car-truck side frame. No. 926,394; June 29; Sp. p. 6912; Gaz. vol. 143; p. 1217.
- Dodds, E. I., Central Valley, N. Y. Brake-beam. No. 926,395; June 29; Sp. p. 6913; Gaz. vol. 143; p. 1217.
- Dodge, A. R., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 912,090; Feb. 9; Sp. p. 2183; Gaz. vol. 139; p. 378.
- Dodge, C. W., Jr., Milwaukee, Wis., assignor of one-half to J. H. Farrell, Denver, Colo. Fluid-clutch mechanism. No. 912,652; Feb. 16; Sp. p. 3356; Gaz. vol. 139; p. 603.
- Dodge, C. W., Jr., Milwaukee, Wis., assignor of one-half to J. H. Farrell, Denver, Colo. Fluid-clutch mechanism. No. 912,938; Feb. 16; Sp. p. 3949; Gaz. vol. 139; p. 695.
- Dodge Coal Storage Company. (See Johnston, A. C., assignor.)
- Dodge Coal Storage Company. (See Morley, N. W., assignor.)
- Dodge Coal Storage Company. (See Titcomb, G. E., assignor.)
- Dodge, G. F., Chicago, Ill. Metal reinforce for concrete. No. 909,850; Jan. 12; Sp. p. 2841; Gaz. vol. 138; p. 500.
- Dodge, G. P. (See Mealus, R. L., assignor.)
- Dodge, H. E. (See Dodge, J. F. and H. E.)
- Dodge, H. P., Toledo, Ohio. Controller for electric automobiles. No. 942,488; Dec. 7; Sp. p. 964; Gaz. vol. 149; p. 156.
- Dodge, H. P., and C. M. Foster, Toledo, Ohio. Automobile-gear. No. 943,240; Dec. 14; Sp. p. 2599; Gaz. vol. 149; p. 440.
- Dodge, J. F. and H. E., Detroit, Mich. Adjustable bearing-box. No. 919,700; Apr. 27; Sp. p. 5881; Gaz. vol. 141; p. 1010.
- Dodge, J. M., Philadelphia, Pa. Manufacturing chain-links. No. 912,982; Feb. 16; Sp. p. 4046; Gaz. vol. 139; p. 710.
- Dodge, J. M., Philadelphia, Pa. Manufacturing chain-links. No. 921,519; May 11; Sp. p. 2929; Gaz. vol. 142; p. 503.
- Dodge, J. M., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Making chain-links. No. 925,804; June 22; Sp. p. 5702; Gaz. vol. 143; p. 988.
- Dodge, J. O., Los Angeles, Cal. Air-brake apparatus. No. 911,953; Feb. 9; Sp. p. 1813; Gaz. vol. 139; p. 334.
- Dodge, J. O., Los Angeles, Cal. Automatic air-brake apparatus. No. 925,566; June 22; Sp. p. 5162; Gaz. vol. 143; p. 910.
- Dodge, L. G., assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Apparel-support for show or display cases. No. 935,095; Sept. 28; Sp. p. 4277; Gaz. vol. 146; p. 764.
- Dodge, L. G., assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Movable garment-support. No. 941,501; Nov. 30; Sp. p. 6742; Gaz. vol. 148; p. 1142.
- Dodge, L. G., W. Freeman, and A. Vanderveld, assignors to Grand Rapids Show Case Company, Grand Rapids, Mich. Movable garment-support. No. 941,502; Nov. 30; Sp. p. 6743; Gaz. vol. 148; p. 1142.
- Dodge, O., Norwich, Conn. Producing printing-surfaces. No. 915,666; Mar. 16; Sp. p. 4164; Gaz. vol. 140; p. 718.
- Dodge, O., Colorado Springs, Colo. Electric-light-cord adjuster. No. 932,970; Aug. 31; Sp. p. 7029; Gaz. vol. 145; p. 1209.
- Dodge, O., and S. G. Camp, Colorado Springs, Colo.; said Camp assignor of one-twentieth to said Dodge. Chandelier. No. 921,520; May 11; Sp. p. 2930; Gaz. vol. 142; p. 503.
- Dodge, P. T., Washington, D. C., assignor to Mergenthaler Linotype Company. Producing matrices. No. 939,988; Nov. 16; Sp. p. 3398; Gaz. vol. 148; p. 585.
- Dodge, R. E., Leban, and A. S. Patton, Frances, Wash. Centering device. No. 921,521; May 11; Sp. p. 2933; Gaz. vol. 142; p. 503.
- Dodge, W. H. (See Snell, A. C., assignor.)
- Dodge, W. T., Belmont, N. Y. Furnace. No. 909,767; Jan. 12; Sp. p. 2684; Gaz. vol. 138; p. 474.
- Dodge, W. T., Belmont, N. Y. Adjustable nozzle. No. 935,745; Oct. 5; Sp. p. 259; Gaz. vol. 147; p. 41.
- Dodgson, F. L., Buffalo, N. Y. Relay. No. 920,036; Apr. 27; Sp. p. 6571; Gaz. vol. 141; p. 1120.
- Dodgson, F. L., Rochester, assignor, by mesne assignments, to General Railway Signal Company, Gates, N. Y. Railway-traffic-controlling device. No. 934,895; Sept. 21; Sp. p. 3855; Gaz. vol. 146; p. 669.
- Dodgson, F. L., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Safety-relay. No. 934,896; Sept. 21; Sp. p. 3857; Gaz. vol. 146; p. 669.
- Dodgson, F. L., and W. K. Howe, assignors to General Railway Signal Company, Rochester, N. Y. Railway-traffic-controlling apparatus. No. 915,081; Mar. 16; Sp. p. 2927; Gaz. vol. 140; p. 521.
- Dods, J. H., Lawrence, Kans. Making wrought articles. No. 942,489; Dec. 7; Sp. p. 968; Gaz. vol. 149; p. 156.
- Dodson, D. W., Hartford, Conn. Die. No. 911,956; Feb. 9; Sp. p. 1869; Gaz. vol. 139; p. 335.
- Dodson, D. W., Wilkes-Barre, Pa. Making character-bars. No. 911,958; Feb. 9; Sp. p. 1899; Gaz. vol. 139; p. 336.
- Dodson, D. W., Hartford, Conn., assignor to American Type-Bar Machine Company. Machine for forming characters. No. 911,954; Feb. 9; Sp. p. 1823; Gaz. vol. 139; p. 334.
- Dodson, D. W., Hartford, Conn., assignor to American Type-Bar Machine Company. Making character-bars. No. 911,955; Feb. 9; Sp. p. 1858; Gaz. vol. 139; p. 335.



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- Dodson, D. W., Hartford, Conn., assignor to American Type-Bar Machine Company. Machine for forming characters. No. 911,957; Feb. 9; Sp. p. 1871; Gaz. vol. 139; p. 335.
- Dodson, J. B., South Pasadena, Cal., assignor to J. W. Dodson, St. Louis, Mo. Cooker. No. 930,461; Aug. 10; Sp. p. 1687; Gaz. vol. 145; p. 304.
- Dodson, J. H., Los Angeles, assignor of one-half to C. A. Tripp, Redlands, and one-fourth to J. F. Brazelton, Los Angeles, Cal. Slack-adjuster. No. 914,024; Mar. 2; Sp. p. 811; Gaz. vol. 140; p. 124.
- Dodson, J. W. (See Dodson, J. B., assignor.)
- Dodson Vending Machine Company. (See Meyer, F., assignor.)
- Dodsworth, C. W., Longbeach, Cal. Ironing-table. No. 927,841; July 13; Sp. p. 2379; Gaz. vol. 144; p. 407.
- Doe, W. S., Jersey City, N. J., assignor of one-half to H. N. Witbeck, Ravenna, Ohio. Dry-battery cell. No. 917,560; Apr. 6; Sp. p. 1172; Gaz. vol. 141; p. 204.
- Doehler, H. H. (See Teves, F. W., assignor.)
- Doelz, W. (See Brasche and Doelz.)
- Doerfler, W. J., Clinton, Ill. Tube-expander. No. 934,800; Sept. 21; Sp. p. 3676; Gaz. vol. 146; p. 638.
- Doering, A. B., Le Mars, Iowa. Fence-wire clamp. No. 925,310; June 15; Sp. p. 4673; Gaz. vol. 143; p. 798.
- Doering, A. B., Le Mars, Iowa. Self-locking snap-hook. No. 944,546; Dec. 28; Sp. p. 5428; Gaz. vol. 149; p. 944.
- Doering, C. Jr., Oak Park, Ill. Refrigerator. No. 918,977; Apr. 20; Sp. p. 4211; Gaz. vol. 141; p. 735.
- Doering, F. H., Salida, Colo. Sliding gate. No. 940,134; Nov. 16; Sp. p. 3741; Gaz. vol. 148; p. 638.
- Doering, F. H., Salida, Colo. Sliding gate. No. 941,628; Nov. 30; Sp. p. 6995; Gaz. vol. 148; p. 1183.
- Doering, L. P., Cleveland, Ohio. Chair. No. 926,858; July 6; Sp. p. 326; Gaz. vol. 144; p. 52.
- Doerr, C. J., assignor of one-third to W. R. Hulbert and one-third to G. M. Siegrist, Erie, Pa. Regulator for air-brakes. No. 939,896; Nov. 9; Sp. p. 3176; Gaz. vol. 148; p. 524.
- Doeschner, C. (See Williams, A. L., assignor.)
- Dohan, J., and A. Waterman, New York, N. Y. Hook and eye. No. 915,747; Mar. 23; Sp. p. 4336; Gaz. vol. 140; p. 771.
- Doherty, H. L., New York, N. Y. Making gas. No. 911,869; Feb. 9; Sp. p. 1645; Gaz. vol. 139; p. 305.
- Doherty, H. L., New York, N. Y. Producing oxids. No. 927,644; July 13; Sp. p. 1955; Gaz. vol. 144; p. 342.
- Doherty, H. L., New York, N. Y. Burning lime and apparatus therefor. No. 938,987; Nov. 2; Sp. p. 1162; Gaz. vol. 148; p. 185.
- Doherty, H. L., assignor to Combustion Utilities Company, New York, N. Y. Cement-burning apparatus. No. 918,020; Apr. 13; Sp. p. 2156; Gaz. vol. 141; p. 388.
- Doherty, P. W., Boston, Mass. Self-closing faucet. No. 912,091; Feb. 9; Sp. p. 2191; Gaz. vol. 139; p. 379.
- Dohlin, F. O., Dubuque, Iowa. Car-door fastener. No. 908,452; Jan. 5; Sp. p. 38; Gaz. vol. 138; p. 8.
- Dohney, M. A., Chicago, Ill. Telephone-disinfecter. No. 914,395; Mar. 9; Sp. p. 1585; Gaz. vol. 140; p. 269.
- Dohrn, M., assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Bromisovaleric ester of the borneols. No. 930,054; Aug. 3; Sp. p. 913; Gaz. vol. 145; p. 147.
- Doidge, W. C., Lodi, Cal. Garden implement. No. 935,473; Sept. 28; Sp. p. 5010; Gaz. vol. 146; p. 885.
- Dolan, C. P. (See Marcell, L. H., assignor.)
- Dolan, F. L., Chicago, Ill. Hair-clipper. No. 919,833; Apr. 27; Sp. p. 6179; Gaz. vol. 141; p. 1053.
- Dolan, J., Jr. (See Johnson, R. E., assignor.)
- Dolan, J. E., Genesee, N. Y. Horseshoe-calk. No. 936,988; Oct. 12; Sp. p. 2870; Gaz. vol. 147; p. 479.
- Dolan, T. J. (See Van Dolsen, E. L., assignor.)
- Doland, E. G., Starksboro, Vt. Sled-brake. No. 930,055; Aug. 3; Sp. p. 915; Gaz. vol. 145; p. 147.
- Doland, E. G., Starksboro, Vt. Wagon-brake. No. 944,080; Dec. 21; Sp. p. 4401; Gaz. vol. 149; p. 758.
- Doland, E. G., Starksboro, Vt. Wagon-brake. No. 944,081; Dec. 21; Sp. p. 4403; Gaz. vol. 149; p. 759.
- Dolby, W. H., Nicholasville, Ohio. Direction and distance locator. No. 942,718; Dec. 7; Sp. p. 1420; Gaz. vol. 149; p. 233.
- Dolcater, W. C., assignor of one-half to E. L. Hill, Columbus, Ga. Lock-clamp for knockdown furniture structures. No. 909,561; Jan. 12; Sp. p. 2283; Gaz. vol. 138; p. 404.
- Dolder, A. J., San Francisco, Cal. Hose-coupling. No. 937,364; Oct. 19; Sp. p. 3667; Gaz. vol. 147; p. 631.
- Dole, F. J. (See Upson and Dole.)
- Dole, R. C. (See Snell and Dole.)
- Dolezal, G. W. (See Paul and Stewart, assignors.)
- Dolge, C. B., and R. J. Holzhausen, assignors to Embalmers' Supply Company, Westport, Conn. Blood-draining tube. No. 923,416; June 1; Sp. p. 692; Gaz. vol. 143; p. 102.
- Doll, C., Darmstadt, Germany. Device for squeezing lemon-slices. No. 913,365; Feb. 23; Sp. p. 4830; Gaz. vol. 139; p. 865.
- Dolletscheck, L. (See Muth, A., assignor.)
- Dolley, H. A., Schenectady, N. Y., assignor to General Electric Company. Emergency-valve. No. 930,847; Aug. 10; Sp. p. 2506; Gaz. vol. 145; p. 434.
- Dolman, J., Westville, Ind. Potato-gathering machine. No. 909,375; Jan. 12; Sp. p. 1916; Gaz. vol. 138; p. 342.
- Dolph, J. R., assignor of one-half to J. I. Barker, Buffalo, N. Y. Valve. No. 908,759; Jan. 5; Sp. p. 702; Gaz. vol. 138; p. 109.
- Dolph, O. W., Cincinnati, Ohio. Measuring instrument. No. 940,439; Nov. 16; Sp. p. 4441; Gaz. vol. 148; p. 743.
- Dolphin, M. J., New York, assignor to International Postal Supply Company of New York, Brooklyn, N. Y. Postmarking-machine. No. 915,278; Mar. 16; Sp. p. 3351; Gaz. vol. 140; p. 585.
- Dom, A. (See Keck and Dom.)
- Doman, L. B., Elbridge, N. Y. Pneumatic self-playing musical instrument. No. 912,939; Feb. 16; Sp. p. 3950; Gaz. vol. 139; p. 695.
- Doman, L. B., Elbridge, N. Y. Pneumatic self-playing musical instrument. No. 912,940; Feb. 16; Sp. p. 3952; Gaz. vol. 139; p. 696.
- Doman, L. B., Elbridge, N. Y. Pneumatic action for musical instruments. No. 927,454; July 6; Sp. p. 1527; Gaz. vol. 144; p. 232.
- Doman, L. B., assignor to Amphion Piano Player Company, Elbridge, N. Y. Pneumatic self-playing musical instrument. No. 912,366; Feb. 16; Sp. p. 2770; Gaz. vol. 139; p. 505.
- Doman, L. B., assignor to Amphion Piano Player Company, Elbridge, N. Y. Guide mechanism for traveling sheets. No. 939,897; Nov. 9; Sp. p. 3178; Gaz. vol. 148; p. 525.
- Dombrowski, F. S., Chicago, Ill. Signal device. No. 927,129; July 6; Sp. p. 900; Gaz. vol. 144; p. 145.
- Domenico, N. di, Providence, R. I. Tailor's measure. No. 915,835; Mar. 23; Sp. p. 4499; Gaz. vol. 140; p. 798.
- Domestic Gas Manufacturing Company. (See Laux, M., assignor.)
- Dominguez, J. A. B., Guayama, Porto Rico. Centrifugal separator. No. 926,859; July 6; Sp. p. 327; Gaz. vol. 144; p. 52.
- Dominiuk, W., New York, N. Y. Door-check. No. 926,321; June 29; Sp. p. 6782; Gaz. vol. 143; p. 1193.
- Dominion Car & Foundry Company. (See Atwood, W. S., assignor.)
- Dominion Car & Foundry Company. (See Lamont, J. A., assignor.)
- Domscheit, F. E., Bridgeport, Conn. Window-shutter. No. 927,777; July 13; Sp. p. 2229; Gaz. vol. 144; p. 386.
- Don Jian, D. M., Washington, D. C. Removable bidet for water-closet basins. No. 921,962; May 18; Sp. p. 3859; Gaz. vol. 142; p. 675.
- Donaghy, J. F., assignor of two-fifths to R. M. Smith, Charleroi, Pa. Coke-oven. No. 914,932; Mar. 9; Sp. p. 2660; Gaz. vol. 140; p. 446.
- Donahay, W. M. (See Bearer, Donahay, and Watson.)
- Donahoe, C. G., and H. A. Taylor, Morris, Ill. Window-curtain-holding mechanism. No. 936,427; Oct. 12; Sp. p. 1749; Gaz. vol. 147; p. 292.
- Donahue, G. A., Wilmington, Del. Shaft-collar. No. 922,463; May 25; Sp. p. 4875; Gaz. vol. 142; p. 868.
- Donahue, J., Knoxville, Tenn. Coffin. No. 925,311; June 15; Sp. p. 4675; Gaz. vol. 143; p. 798.
- Donald, J. M. (See Rivers-Moore and Donald.)
- Donald, R. K., Victoria Road Loch, Victoria, Australia. Cradle crusher. No. 909,562; Jan. 12; Sp. p. 2284; Gaz. vol. 138; p. 404.
- Donald, W., Tonopah, Nev. Clamping device. No. 921,373; May 11; Sp. p. 2645; Gaz. vol. 142; p. 454.
- Donaldson, F., Pittsburg, Pa., assignor to Lidgerwood Manufacturing Company, New York, N. Y. Winding-drum. No. 909,768; Jan. 12; Sp. p. 2686; Gaz. vol. 138; p. 474.
- Donaldson, F. E., Chicago, Ill. Air-washer. No. 910,045; Jan. 19; Sp. p. 3247; Gaz. vol. 138; p. 599.
- Donaldson, G. M., Wynne, Ark. Locking-plate for the rails of bedsteads. No. 944,325; Dec. 28; Sp. p. 4916; Gaz. vol. 149; p. 866.
- Donaldson, J. O. (See Basham and Donaldson.)
- Donaldson, W. I., Paulsboro, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Machine for packing explosive gelatin dynamite. No. 914,396; Mar. 9; Sp. p. 1586; Gaz. vol. 140; p. 270.
- Donaldson, W. R. (See Hay, J. D., assignor.)
- Donat, J. L., Chicago, Ill. System of drainage-venting. No. 921,092; May 11; Sp. p. 2045; Gaz. vol. 142; p. 359.
- Donath, J., Chicago, Ill. Chime-whistle. No. 913,707; Mar. 2; Sp. p. 59; Gaz. vol. 140; p. 12.
- Donatz, O., Trenton, N. J. Boiler-cleaning apparatus. No. 944,718; Dec. 28; Sp. p. 5797; Gaz. vol. 149; p. 1002.
- Donell, A. C., Canonsburg, Pa. Belt-stretcher. No. 914,815; Mar. 9; Sp. p. 2430; Gaz. vol. 140; p. 408.
- Donelson, E. V., Baltimore, Md. Car-roof. No. 931,736; Aug. 24; Sp. p. 4474; Gaz. vol. 145; p. 779.
- Doner, W. F., Winnipeg, Manitoba, Canada. Switch-rail-controlling device. No. 942,313; Dec. 7; Sp. p. 608; Gaz. vol. 149; p. 96.
- Donham, T. F., Terre Haute, Ind. Check-row corn-planter. No. 937,287; Oct. 19; Sp. p. 3515; Gaz. vol. 147; p. 607.
- Donisthorpe, F. W., Bath, England. Photography. No. 923,030; May 25; Sp. p. 6041; Gaz. vol. 142; p. 1052.

*Alphabetical list of patentees—Continued.*

- Dönitz, E., assignor to Firm of C. Zeiss, Jena, Germany. Hinged double telescope. No. 922,679; May 25; Sp. p. 5313; Gaz. vol. 142; p. 939.
- Dönitz, J., assignor to Firm of O. Schöppe, Leipzig, Germany. Fire-alarm system. No. 916,280; Mar. 23; Sp. p. 5319; Gaz. vol. 140; p. 942.
- Donlan, M. J., *et al.* (See Laughterback, W. Z., assignor.)
- Donneley, J. G. A., Altona-Ottensen, Germany. Steam-generator. No. 929,294; July 27; Sp. p. 5395; Gaz. vol. 144; p. 949.
- Donnell, C. C., Des Moines, Iowa. Vending device. No. 915,279; Mar. 16; Sp. p. 3356; Gaz. vol. 140; p. 586.
- Donnelly, B. C. (See Livergood and Donnelly.)
- Donnelly, F. A., Bayonne, N. J., and J. E. Blanthorn, New York, N. Y. Eyelet. No. 914,705; Mar. 9; Sp. p. 2217; Gaz. vol. 140; p. 372.
- Donnelly, G. A., Chicago, Ill. Dispensing apparatus. No. 920,931; May 11; Sp. p. 1716; Gaz. vol. 142; p. 305.
- Donnelly, J. C., Detroit, Mich. Machine for making can-bodies. No. 919,557; Apr. 27; Sp. p. 5589; Gaz. vol. 141; p. 961.
- Donnelly, J. F. (See McGrath, P. J., assignor.)
- Donnelly, J. R., Austin, Tex. Drip-cup for gas water-heaters. No. 910,796; Jan. 26; Sp. p. 4848; Gaz. vol. 138; p. 876.
- Donnelly, J. R., Austin, Tex. Plumber's ferrule. No. 913,366; Feb. 23; Sp. p. 4831; Gaz. vol. 139; p. 865.
- Donnelly, S. E., assignor of one-fourth to H. Kramer and one-fourth to C. G. Morris, Shreveport, La. Electric-arc light. No. 928,857; July 20; Sp. p. 4449; Gaz. vol. 144; p. 776.
- Donnelly, W. E., and W. L. Goyette, Chicopee Falls, Mass. Trolley-head. No. 910,797; Jan. 26; Sp. p. 4849; Gaz. vol. 138; p. 876.
- Donnelly, W. T., Brooklyn, N. Y. Floating dry-dock. No. 920,282; May 4; Sp. p. 417; Gaz. vol. 142; p. 63.
- Donnelly, W. T., Brooklyn, N. Y. Floating dry-dock. No. 920,283; May 4; Sp. p. 419; Gaz. vol. 142; p. 64.
- Donnelly, W. T., Brooklyn, N. Y. Floating dry-dock. No. 920,284; May 4; Sp. p. 420; Gaz. vol. 142; p. 64.
- Donnelly, W. T., Brooklyn, N. Y. Floating dry-dock. No. 920,285; May 4; Sp. p. 422; Gaz. vol. 142; p. 64.
- Donnelly, W. T., Brooklyn, N. Y. Floating dry-dock. No. 920,286; May 4; Sp. p. 425; Gaz. vol. 142; p. 65.
- Donnenworth, J. R., Lacombe, Alberta, Canada. Cultivator. No. 917,720; Apr. 6; Sp. p. 1476; Gaz. vol. 141; p. 258.
- Donner, E., Peoria, Ill. Device for carrying mattresses. No. 927,506; July 13; Sp. p. 1646; Gaz. vol. 144; p. 295.
- Donner, P. E., Pittsburg, Pa. Doubling apparatus. No. 941,700; Nov. 30; Sp. p. 7154; Gaz. vol. 148; p. 1207.
- Donning, G. W., East Orange, assignor to H. T. Ambrose, Orange, N. J. Work-holder for flat platens. No. 929,837; Aug. 3; Sp. p. 443; Gaz. vol. 145; p. 73.
- Donning, G. W., East Orange, assignor to H. T. Ambrose, Orange, N. J. Type-writer. No. 931,689; Aug. 17; Sp. p. 4329; Gaz. vol. 145; p. 740.
- Donning, G. W., Stamford, Conn., assignor to H. T. Ambrose, Orange, N. J. Tabulating device for type-writers. No. 929,838; Aug. 3; Sp. p. 448; Gaz. vol. 145; p. 73.
- Donning, G. W., Stamford, Conn., assignor to H. T. Ambrose, Orange, N. J. Type-writer. No. 929,839; Aug. 3; Sp. p. 458; Gaz. vol. 145; p. 74.
- Donning, G. W., Stamford, Conn., assignor to H. T. Ambrose, Orange, N. J. Type-writer. No. 929,840; Aug. 3; Sp. p. 464; Gaz. vol. 145; p. 74.
- Donning, G. W., New York, N. Y., assignor to H. T. Ambrose, Orange, N. J. Type-writer locking device. No. 929,841; Aug. 3; Sp. p. 471; Gaz. vol. 145; p. 75.
- Donoghue, F. D., Boston, Mass. Footwear. No. 915,082; Mar. 16; Sp. p. 2936; Gaz. vol. 140; p. 522.
- Donohoe, T., Avella, Pa. Car-wheel and mounting. No. 935,988; Nov. 2; Sp. p. 1168; Gaz. vol. 148; p. 186.
- Donohue, I. A., Rome, N. Y. Drawstring. No. 912,830; Feb. 16; Sp. p. 3774; Gaz. vol. 139; p. 664.
- Donovan, D. A., Auburn, N. Y. Pipe-hanger. No. 918,021; Apr. 13; Sp. p. 2159; Gaz. vol. 141; p. 388.
- Donovan, J. J., Boston, Mass. Trap. No. 919,701; Apr. 27; Sp. p. 5883; Gaz. vol. 141; p. 1010.
- Donovan, J. P., Georgetown, Ky. Concrete railway-tie. No. 936,428; Oct. 12; Sp. p. 1749; Gaz. vol. 147; p. 292.
- Donovan, J. P., Georgetown, Ky. Railway-tie and rail-fastener. No. 936,989; Oct. 12; Sp. p. 2871; Gaz. vol. 147; p. 479.
- Donovan, J. P., Georgetown, Ky. Apparatus for molding concrete railway-ties. No. 937,026; Oct. 12; Sp. p. 2961; Gaz. vol. 147; p. 492.
- Donovan, J. T., Sr., Lampasas, Tex. Ore-separator. No. 921,374; May 11; Sp. p. 2647; Gaz. vol. 142; p. 455.
- Donovan, P., Hart, Mich. Rail-tie. No. 918,022; Apr. 13; Sp. p. 2160; Gaz. vol. 141; p. 389.
- Donovan, S. O., Mountain Home, Idaho. Thumb-rest for pencils and the like. No. 936,868; Oct. 12; Sp. p. 2641; Gaz. vol. 147; p. 440.
- Doody, B. R., Canton, Mass. Low-pressure steam and analogous heating system. No. 911,215; Feb. 2; Sp. p. 377; Gaz. vol. 139; p. 66.
- Doody, B. R., Canton, Mass. Low-pressure steam and analogous system. No. 930,650; Aug. 10; Sp. p. 2116; Gaz. vol. 145; p. 369.
- Dooley, J. E., Fond du Lac, Wis. Mold or centering device. No. 910,046; Jan. 19; Sp. p. 3250; Gaz. vol. 138; p. 599.
- Dooley, W. E., assignor to American Brass Novelty Company, Grand Haven, Mich. Hasp for suit-cases. No. 917,854; Apr. 13; Sp. p. 1789; Gaz. vol. 141; p. 328.
- Dooley, W. J., *et al.* (See Boyens, W. F. A., assignor.)
- Doolittle, H. W., trustee. (See Doolittle, T. B., assignor.)
- Doolittle, N. S., Kent, Ohio. Bob-sled. No. 917,755; Apr. 13; Sp. p. 1575; Gaz. vol. 141; p. 297.
- Doolittle, T. B., Branford, assignor to H. W. Doolittle, trustee, New Haven, Conn. Controlling the exhaust from internal-combustion engines. No. 921,679; May 18; Sp. p. 3283; Gaz. vol. 142; p. 584.
- Doolittle, W. W., Evanston, assignor to Crane Company, Chicago, Ill. Gate-valve. No. 925,880; June 22; Sp. p. 5863; Gaz. vol. 143; p. 1013.
- Doorenbos, G. G. (See Doorenbos, J. and G. G.)
- Doorenbos, J. and G. G., assignors to National Gas Light Company, Kalamazoo, Mich. Lamp. No. 917,421; Apr. 6; Sp. p. 926; Gaz. vol. 141; p. 161.
- DORR, E. P. (See Lambert and Dopps.)
- Dor-Delattre, E., Liege, Belgium. Means for charging the retorts of zinc and other analogous furnaces. No. 914,339; Mar. 2; Sp. p. 1448; Gaz. vol. 140; p. 225.
- Dor-Delattre, E., Liege, Belgium. Means for protecting operatives of zinc and analogous furnaces from heat, fumes, and dust. No. 921,375; May 11; Sp. p. 2648; Gaz. vol. 142; p. 455.
- Dor-Delattre, E., Liege, Belgium. Apparatus for obtaining intimate mixtures. No. 922,863; May 25; Sp. p. 5707; Gaz. vol. 142; p. 999.
- Dor-Delattre, E., Liege, Belgium. Obtaining intimate mixtures. No. 939,989; Nov. 16; Sp. p. 3399; Gaz. vol. 148; p. 585.
- Doran, B. J., E. Sturm, and S. Hinkle, Havelock, Nebr. Neck-yoke. No. 918,978; Apr. 20; Sp. p. 4213; Gaz. vol. 141; p. 736.
- Doran, J., administrator de bonis non. (See Edlund, C. A.)
- Doran, J. A. (See Doran, J. C. and J. A.)
- Doran, J. A., Providence, R. I. Collar-supporter. No. 911,216; Feb. 2; Sp. p. 379; Gaz. vol. 139; p. 66.
- Doran, J. C., Providence, R. I. Collar-supporter. No. 928,250; July 20; Sp. p. 3224; Gaz. vol. 144; p. 574.
- Doran, J. C. and J. A., Providence, R. I. Belt-pin. No. 925,083; June 15; Sp. p. 4248; Gaz. vol. 143; p. 723.
- Doran, J. H., Schenectady, N. Y. Beam-clamp for pipe-hangers. No. 919,558; Apr. 27; Sp. p. 5595; Gaz. vol. 141; p. 961.
- Doran, R. L., Chicago, Ill. Gas generator and lamp. No. 921,093; May 11; Sp. p. 2046; Gaz. vol. 142; p. 359.
- Dorbandt, R. L., *et al.* (See Charlton, T., assignor.)
- Dore, H. M., administratrix. (See Farrell, J., assignor.)
- Doremus, W. D., Washington, D. C. Hose-rack. No. 920,116; May 4; Sp. p. 60; Gaz. vol. 142; p. 7.
- Doremus, W. D., Washington, D. C. Tobacco-stemming machine. No. 933,065; Sept. 7; Sp. p. 54; Gaz. vol. 146; p. 10.
- Doremus, W. D., Washington, D. C., assignor, by mesne assignments, to National Cotton Improvement Company. Cotton-gin. No. 938,224; Oct. 26; Sp. p. 5496; Gaz. vol. 147; p. 940.
- Dorf, J., New York, N. Y. Shirt-collar. No. 932,848; Aug. 31; Sp. p. 6809; Gaz. vol. 145; p. 1168.
- Dorf, J., assignor, by mesne assignments, to M. Hecht, New York, N. Y. Shoulder-brace. No. 921,812; May 18; Sp. p. 3539; Gaz. vol. 142; p. 628.
- Dorf, C. J., assignor to F. Greer, Chicago, Ill. Electric outlet-box. No. 926,246; June 29; Sp. p. 6633; Gaz. vol. 143; p. 1170.
- Dorf, C. J., assignor to F. Greer, Chicago, Ill. Electric outlet-box. No. 928,251; July 20; Sp. p. 3225; Gaz. vol. 144; p. 574.
- Dorf, C. J., assignor to F. Greer, Chicago, Ill. Insulator-pin. No. 937,515; Oct. 19; Sp. p. 4023; Gaz. vol. 147; p. 683.
- Dorffel, G., Fruitvale, Cal. Rail-fastener. No. 931,737; Aug. 24; Sp. p. 4476; Gaz. vol. 145; p. 779.
- Dorgeloh, G. H., Schenectady, N. Y., assignor to General Electric Company. Motor-controlling device. No. 917,023; Apr. 6; Sp. p. 130; Gaz. vol. 141; p. 25.
- Dorgeloh, G. H., Schenectady, N. Y., assignor to General Electric Company. Rheostat. No. 941,441; Nov. 30; Sp. p. 6621; Gaz. vol. 148; p. 1121.
- Dorizzi, F. P., Barnes, England. Pencil-making machinery. No. 918,979; Apr. 20; Sp. p. 4215; Gaz. vol. 141; p. 736.
- Dorland, W. H. (See Plan and Dorland.)
- Dorman, D. C., Minot, N. D. Flying-machine. No. 934,717; Sept. 21; Sp. p. 3510; Gaz. vol. 146; p. 611.
- Dorman, J. H., New York, N. Y. Tapping and drilling tool. No. 943,009; Dec. 14; Sp. p. 2113; Gaz. vol. 149; p. 362.
- Dorman, W. S., Brooklyn, N. Y. Bottle-neck-forming tool. No. 920,550; May 4; Sp. p. 928; Gaz. vol. 142; p. 150.
- Dormandy, G. J., assignor to United Shirt and Collar Company, Troy, N. Y. Templet for infolding-machines for collars, cuffs, &c. No. 918,023; Apr. 13; Sp. p. 2161; Gaz. vol. 141; p. 389.
- Dormandy, G. J., assignor to United Shirt and Collar Company, Troy, N. Y. Folding-machine. No. 935,783; Oct. 5; Sp. p. 362; Gaz. vol. 147; p. 55.



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- Dormandy, G. J., assignor to United Shirt & Collar Company, Troy, N. Y. Folding-machine. No. 935,785; Oct. 5; Sp. p. 379; Gaz. vol. 147; p. 56.
- Dormandy, G. J., assignor to United Shirt & Collar Company, Troy, N. Y. Folding-machine. No. 935,786; Oct. 5; Sp. p. 384; Gaz. vol. 147; p. 56.
- Dormandy, G. J., Lansingburg, assignor to United Shirt & Collar Company, Troy, N. Y. Machine for infolding the edges of blanks for cuffs or like articles. No. 924,151; June 8; Sp. p. 2292; Gaz. vol. 143; p. 377.
- Dorment, F. C. (See Worst, E. J., assignor.)
- Dorment, F. C., Detroit, Mich., assignor, by mesne assignments, to Duff Remedy Company, Chicago, Ill. Atomizer. No. 923,822; June 8; Sp. p. 1641; Gaz. vol. 143; p. 272.
- Dorn, C. A., J. O. Ludlam, C. F. Bonnot, Canton, and L. C. Bonnot, Louisville, Ohio. Crushing and pulverizing mill. No. 924,439; June 8; Sp. p. 2895; Gaz. vol. 143; p. 474.
- Dorn, C. A., J. O. Ludlam, C. F. Bonnot, Canton, and L. C. Bonnot, Louisville, assignors to Bonnot Company, Canton, Ohio. Crushing or pulverizing machine. No. 928,368; July 20; Sp. p. 3487; Gaz. vol. 144; p. 615.
- Dorn, C. P., Naperville, Ill. Door-check. No. 914,340; Mar. 2; Sp. p. 1450; Gaz. vol. 140; p. 226.
- Dorn, C. P., Naperville, assignor of one-half to H. De Tamble, Aurora, Ill. Door-check. No. 909,563; Jan. 12; Sp. p. 2285; Gaz. vol. 138; p. 405.
- Dorn, H. C. (See Krause and Dorn.)
- Dorman, T. B., Philadelphia, Pa. Woven fabric. No. 939,230; Nov. 9; Sp. p. 1701; Gaz. vol. 148; p. 295.
- Dorner, L., and G. H. Norquist; said Norquist assignor, by mesne assignments, to R. S. Willoughby, Denver, Colo. Incandescent-lamp socket. No. 943,772; Dec. 21; Sp. p. 3746; Gaz. vol. 149; p. 652.
- Dornfeld, J. F., Chicago, Ill. Malt-house. No. 933,165; Sept. 7; Sp. p. 273; Gaz. vol. 146; p. 45.
- Dornfeld, J. F., Chicago, Ill. Valve for steep-tanks. No. 941,442; Nov. 30; Sp. p. 6623; Gaz. vol. 148; p. 1122.
- Dornfeld, J. F., Chicago, Ill. Maltting apparatus. No. 944,127; Dec. 21; Sp. p. 4507; Gaz. vol. 149; p. 774.
- Dorpmüller, H., Aix-la-Chapelle, Germany. Device for preventing the creeping of rails. No. 923,417; June 1; Sp. p. 694; Gaz. vol. 143; p. 102.
- Dorr, C. A. (See Ayers and Dorr.)
- Dorr, H. A., Providence, R. I. Cutter for toothpick-machines. No. 931,044; Aug. 17; Sp. p. 2987; Gaz. vol. 145; p. 527.
- Dorr, W. L., assignor to Barber-Colman Company, Rockford, Ill. Warp-frame. No. 938,130; Oct. 26; Sp. p. 5297; Gaz. vol. 147; p. 906.
- Dorrity, C., North Western, N. Y. Apparatus for navigation of waterways. No. 926,981; July 6; Sp. p. 567; Gaz. vol. 144; p. 93.
- Dorroh, J. F., *et al.* (See Clement, R. B., assignor.)
- Dorsey, F. A., and M. E. Keyser, Baltimore, Md. Fire-alarm-box attachment. No. 919,702; Apr. 27; Sp. p. 5886; Gaz. vol. 141; p. 1010.
- Dorsey, F. F., Winchester, Mass., assignor to Campbell-Bosworth Machinery Company, Portland, Me. Take-up for sewing-machines. No. 923,031; May 25; Sp. p. 6043; Gaz. vol. 142; p. 1052.
- Dorsey, G. D., New York, N. Y. Producing metal pipe. No. 909,376; Jan. 12; Sp. p. 1918; Gaz. vol. 138; p. 342.
- Dorsey, H. F., Lockport, La. Churn. No. 930,942; Aug. 10; Sp. p. 2717; Gaz. vol. 145; p. 465.
- Dorsey, R. H., Gainesville, Tex. Sad-iron-eding machine. No. 927,130; July 6; Sp. p. 901; Gaz. vol. 144; p. 145.
- Dorsey, R. H., Gainesville, Tex. Sad-iron-facing machine. No. 933,962; Sept. 14; Sp. p. 2036; Gaz. vol. 146; p. 336.
- Dorsey, R. L., assignor to Tucker & Dorsey Manufacturing Company, Indianapolis, Ind. Vegetable-cutter. No. 910,652; Jan. 26; Sp. p. 4567; Gaz. vol. 138; p. 830.
- Dorsey, R. L., assignor to Tucker & Dorsey Manufacturing Company, Indianapolis, Ind. Vegetable-cutter. No. 911,478; Feb. 2; Sp. p. 856; Gaz. vol. 139; p. 151.
- Dorsey, W. B., Natchez, Miss. Cultivator. No. 915,567; Mar. 16; Sp. p. 3945; Gaz. vol. 140; p. 681.
- Dosch, O. L. (See Temple and Dosch.)
- Doss, A., St. Louis, Mo. Car-fender. No. 916,540; Mar. 30; Sp. p. 5878; Gaz. vol. 140; p. 1055.
- Dost, C. O., Magdeburg, Germany. Surface-gage for parallel lining. No. 943,010; Dec. 14; Sp. p. 2116; Gaz. vol. 149; p. 363.
- Doswald, T., Trieste, Austria-Hungary. Sharpening and honing device for razors. No. 939,402; Nov. 9; Sp. p. 2138; Gaz. vol. 148; p. 355.
- Dotson, B. L., Greenwood, W. Va. Mail-package. No. 941,237; Nov. 23; Sp. p. 6165; Gaz. vol. 148; p. 1034.
- Dotsen, C. A., assignor of one-third to R. F. Carson and one-third to A. O. Kirschner, Huntington, W. Va. Lubricator. No. 938,415; Oct. 26; Sp. p. 5925; Gaz. vol. 147; p. 1005.
- Dotter, W. H., and R. S. Hays, assignors to Frog, Switch & Manufacturing Company, Carlisle, Pa. Reversible frog. No. 940,440; Nov. 16; Sp. p. 4442; Gaz. vol. 148; p. 743.
- Dotter, W. H., and R. S. Hays, assignors to Frog, Switch & Manufacturing Company, Carlisle, Pa. Hard-center frog. No. 940,441; Nov. 16; Sp. p. 4445; Gaz. vol. 148; p. 743.
- Doty, A. A., Greenwood, Ind. Silo. No. 911,217; Feb. 2; Sp. p. 381; Gaz. vol. 139; p. 67.
- Doty, C. H., and W. L. Burner, assignors to Kilbourne and Jacobs Manufacturing Company, Columbus, Ohio. Dump-car. No. 915,419; Mar. 16; Sp. p. 3629; Gaz. vol. 140; p. 632.
- Doty, C. H., W. L. Burner, and T. H. Stagg, assignors to Kilbourne and Jacobs Manufacturing Company, Columbus, Ohio. Locking device for dump-cars. No. 921,376; May 11; Sp. p. 2651; Gaz. vol. 142; p. 456.
- Doty, G. O. (See Bristow and Doty.)
- Doty, J. W. (See Moran, Doty, and Jarrett.)
- Doty, M. S., New York, N. Y. assignor, by mesne assignments, to Warren Featherbone Company of Michigan, Three Oaks, Mich. Skirt. No. 913,815; Mar. 2; Sp. p. 287; Gaz. vol. 140; p. 49.
- Doty, W. G., Dayton, Ohio. Machine for cutting meat. No. 913,879; Mar. 2; Sp. p. 443; Gaz. vol. 140; p. 73.
- Dotz, H., Seattle, Wash. Oil-club and speed-regulator. No. 923,956; June 8; Sp. p. 1886; Gaz. vol. 143; p. 315.
- Double Body Bolster Company. (See Dath, C. E., assignor.)
- Double Body Bolster Company. (See Pfleger, H. M., assignor.)
- Double, H. S., Cooke, Mont. Fume-arrester for smelting-furnaces. No. 917,561; Apr. 6; Sp. p. 1173; Gaz. vol. 141; p. 205.
- Double Spring Shuttle Co. (See Lacroix, J., assignor.)
- Double Value Vending Company. (See Heilmann and Flatow, assignors.)
- Doublet, D. A. M., Einsbüttel, near Hamburg, Germany. Sand-blast blower. No. 931,579; Aug. 17; Sp. p. 4097; Gaz. vol. 145; p. 705.
- Douchamp, H., assignor to Smethport Glass Company, Smethport, Pa. Automatic air-valve mechanism for glass-drawing apparatus. No. 938,305; Oct. 26; Sp. p. 5674; Gaz. vol. 147; p. 966.
- Doud, A. N., North Stockholm, N. Y. Concrete holding and carrying device. No. 928,858; July 20; Sp. p. 4450; Gaz. vol. 144; p. 776.
- Doud, A. N., North Stockholm, N. Y. Concrete building and holding mechanism. No. 934,294; Sept. 14; Sp. p. 2678; Gaz. vol. 146; p. 445.
- Dougal, T. M., and J. M. Chambers, assignors to Teletopograph Signal Company, Boulder, Colo. Railway signaling system. No. 941,263; Nov. 23; Sp. p. 6210; Gaz. vol. 148; p. 1042.
- Dougan, K., Minneapolis, Minn. Gasoline-torch. No. 915,836; Mar. 23; Sp. p. 4501; Gaz. vol. 140; p. 799.
- Dougherty, E. F., C. L. Emerson, and W. A. Be Dell, Van Buren, Ark. Cross-head. No. 933,634; Sept. 7; Sp. p. 1371; Gaz. vol. 146; p. 205.
- Dougherty, J. E., Missoula, Mont. Rail-curve seat. No. 941,312; Nov. 23; Sp. p. 6324; Gaz. vol. 148; p. 1057.
- Dougherty, M. F., Los Angeles, Cal. Music-stand. No. 935,592; Sept. 23; Sp. p. 5279; Gaz. vol. 146; p. 926.
- Dougherty, O., and J. W. and A. E. Armstrong, assignors to D. and A. Post Mold Company, Three Rivers, Mich. Mold for artificial-stone or concrete posts. No. 912,367; Feb. 16; Sp. p. 2772; Gaz. vol. 139; p. 505.
- Dougherty, S. O., Toronto, Ohio. Shade and curtain hanger. No. 910,273; Jan. 19; Sp. p. 3770; Gaz. vol. 138; p. 679.
- Dougherty, T. E., Chicago, Ill. Self-playing musical instrument. No. 929,755; Aug. 3; Sp. p. 259; Gaz. vol. 145; p. 44.
- Dougherty, W. (See Whitmore and Dougherty.)
- Dougherty, W. H., New York, N. Y. Packaging playing-cards, &c. No. 911,647; Feb. 9; Sp. p. 1247; Gaz. vol. 139; p. 234.
- Doughty, A. J., Detroit, Mich. Pneumatic hammer. No. 912,234; Feb. 9; Sp. p. 2442; Gaz. vol. 139; p. 421.
- Doughty, H. W., Amherst, Mass., assignor of one-half to F. E. Waters, Baltimore, Md. Treating wood during distillation. No. 930,274; Aug. 3; Sp. p. 1322; Gaz. vol. 145; p. 218.
- Doughty, J. G. (See Sanford and Doughty.)
- Doughty, J. G., and J. R. Sanford, assignors to Flexible Rubber Goods Company, Winsted, Conn. Antislipping shoe-sole. No. 911,479; Feb. 2; Sp. p. 858; Gaz. vol. 139; p. 151.
- Doughty, L. C., Onley, Va. Transplanting implement. No. 938,651; Nov. 2; Sp. p. 450; Gaz. vol. 148; p. 70.
- Doughty, R. H., New York, N. Y. Dirigible boggan-runner sled. No. 944,848; Dec. 28; Sp. p. 6087; Gaz. vol. 149; p. 1046.
- Douglas, E. C., Chicago, Ill. Revolving card-holding stand. No. 911,385; Feb. 2; Sp. p. 704; Gaz. vol. 139; p. 121.
- Douglas, F. G., Cleveland, Ohio. Adjustable bracket for lamps. No. 916,121; Mar. 23; Sp. p. 5032; Gaz. vol. 140; p. 891.
- Douglas-Hamilton, F. S., Queen's Gate Gardens, London, England. Device for indicating the intended movements of vehicles. No. 912,831; Feb. 16; Sp. p. 3775; Gaz. vol. 139; p. 664.
- Douglas, I. A., Swissvale, Pa. Automatic tap-head. No. 915,568; Mar. 16; Sp. p. 3946; Gaz. vol. 140; p. 681.

*Alphabetical list of patentees—Continued.*

- Douglas, J., assignor to himself and F. G. Geddes, Waverley, near Sydney, New South Wales, Australia. Dressing-retainer and shield for the knees of horses. No. 942,624; Dec. 7; Sp. p. 1235; Gaz. vol. 149; p. 202.
- Douglas, J. E., Parkersburg, W. Va. Beehive. No. 910,047; Jan. 19; Sp. p. 3252; Gaz. vol. 138; p. 600.
- Douglas, M., Boston, Mass. Attachment for holding coverings for furniture. No. 936,225; Oct. 5; Sp. p. 1292; Gaz. vol. 147; p. 197.
- Douglas, P. H., assignor to Wellman-Seaver-Morgan Company, Cleveland, Ohio. Crane. No. 928,640; July 20; Sp. p. 4039; Gaz. vol. 144; p. 704.
- Douglas, P. H., East Cleveland, and I. D. Thomas, assignors to Wellman-Seaver-Morgan Company, Cleveland, Ohio. Charging apparatus. No. 937,144; Oct. 19; Sp. p. 3208; Gaz. vol. 147; p. 561.
- Douglas, W. G., Winnipeg, and W. Robinson, Selkirk, Manitoba, Canada. Grain-car door. No. 927,335; July 6; Sp. p. 1275; Gaz. vol. 144; p. 211.
- Douglas, W. H. (See Seddon and Douglas.)
- Douglass, C. A., F. L. Jones, Denver, and A. F. Harris, Dolores, Colo. Automatic weighing-machine. No. 936,613; Oct. 12; Sp. p. 2140; Gaz. vol. 147; p. 355.
- Douglass, J. R. (See Otto and Douglass.)
- Douglass, J. S., Paris, assignor of one-half to E. B. Wrenn, Lexington, Ky. Trace-holder. No. 911,218; Feb. 2; Sp. p. 382; Gaz. vol. 139; p. 67.
- Douglass, N. B., Seattle, Wash. Wall or cabinet bed. No. 939,482; Nov. 9; Sp. p. 2304; Gaz. vol. 148; p. 381.
- Douglass, R. L., Brookline, Mass. Hand-strap. No. 921,094; May 11; Sp. p. 2048; Gaz. vol. 142; p. 360.
- Douglass, T. L., Ralston, Okla. Hog-poke. No. 911,706; Feb. 9; Sp. p. 1365; Gaz. vol. 139; p. 253.
- Douple, J. G., et al. (See Detwiler, C. A., assignor.)
- Doust, E., et al. (See Merritt, O. J., assignor.)
- Douteur, M., Ekaterinoslaf, Russia. Apparatus for the continuous production of ingots. No. 944,668; Dec. 28; Sp. p. 5678; Gaz. vol. 149; p. 985.
- Douthitt, S. J. (See Colbert, S. B., assignor.)
- Douty, J. G. (See Huse and Douty.)
- Dove, A. J. (See White and Cornick, assignors.)
- Dove, J., Litchfield, Conn. Garment-hanger. No. 944,180; Dec. 21; Sp. p. 4609; Gaz. vol. 149; p. 791.
- Dove, J. H. (See Fairall, F. G., assignor.)
- Dover, G. W. (See Barber, W. L., assignor.)
- Dover, G. W., Cranston, R. I. Pin. (Reissue.) No. 12,954; May 11; Sp. p. 3218; Gaz. vol. 142; p. 550.
- Dover Stamping and Manufacturing Company. (See Anderson, P., assignor.)
- Dow, A., New York, N. Y., assignor to Dow Rim Company. Demountable tire-rim. No. 922,402; May 18; Sp. p. 4732; Gaz. vol. 142; p. 820.
- Dow, A., New York, N. Y., assignor to Dow Rim Company. Locking device for demountable tire-rims. No. 922,403; May 18; Sp. p. 4736; Gaz. vol. 142; p. 821.
- Dow, A., New York, N. Y., assignor to Dow Rim Company. Demountable tire-rim. No. 922,404; May 18; Sp. p. 4738; Gaz. vol. 142; p. 821.
- Dow, C., assignor to George Murphy, Inc., New York, N. Y. Printing-frame. No. 924,327; June 8; Sp. p. 2692; Gaz. vol. 143; p. 438.
- Dow Chemical Company. (See Barstow, E. O., assignor.)
- Dow Chemical Mfg. Co. (See Wallace and Dow, assignors.)
- Dow, D. B., Gibson, Neb. Skate-sharpener. No. 927,131; July 6; Sp. p. 903; Gaz. vol. 144; p. 145.
- Dow, G. (See Chandler and Dow.)
- Dow, H. H., Midland, Mich., assignor to Westinghouse Machine Company. Internal-combustion engine. No. 930,943; Aug. 10; Sp. p. 2718; Gaz. vol. 145; p. 465.
- Dow, H. H., Midland, Mich., and W. S. Gates, Worthington, Ontario, assignors to Ontario Nickel Company, Limited, Worthington, Canada. Separating metals in solution. No. 913,708; Mar. 2; Sp. p. 60; Gaz. vol. 140; p. 12.
- Dow, H. H., Midland, Mich., and W. S. Gates, Worthington, Ontario, assignors to Ontario Nickel Company, Limited, Worthington, Canada. Separating metals in solution. No. 913,709; Mar. 2; Sp. p. 66; Gaz. vol. 140; p. 13.
- Dow, R. (See Wallace and Dow.)
- Dow, R., Mansfield, Ohio. Can attachment. No. 910,182; Jan. 19; Sp. p. 3535; Gaz. vol. 138; p. 644.
- Dow Rim Company. (See Dow, A., assignor.)
- Dow, W. E., Braintree, Mass. Electric-terminal clip. No. 911,032; Feb. 2; Sp. p. 19; Gaz. vol. 139; p. 5.
- Dowd, F., Cleveland, Ohio. Inking device for type-writers and the like. No. 911,707; Feb. 9; Sp. p. 1366; Gaz. vol. 139; p. 254.
- Dowd, F. F., assignor of one-half to E. C. Allen, Portland, Oreg. Window-screen. No. 917,562; Apr. 6; Sp. p. 1174; Gaz. vol. 141; p. 205.
- Dowd, R. J. (See North, R. A., assignor.)
- Dowell, A. B., Carbondale, Ill. Device for sinking through soft strata, such as muck, sand, &c. No. 912,941; Feb. 16; Sp. p. 3954; Gaz. vol. 139; p. 696.
- Dowell, A. B., Washington, D. C. Printing-press. No. 910,363; Jan. 19; Sp. p. 3944; Gaz. vol. 138; p. 710.
- Dowell, C. L. (See Elsworth and Dowell.)
- Dowell, J. C., Washington, D. C. Ball-bearing. No. 924,440; June 8; Sp. p. 2900; Gaz. vol. 143; p. 473.
- Dowell, P. C. (See Kepke, G. J., assignor.)
- Dowler, R. F. (See McGuffey and Dowler.)
- Dowling, G. A., assignor of one-half to J. Elias, New York, N. Y. Sash-holder. No. 912,653; Feb. 16; Sp. p. 3357; Gaz. vol. 139; p. 603.
- Dowling, J. R., and J. F. Squires, Fort Collins, Colo. Slip file and binder and punch therefor. No. 915,569; Mar. 16; Sp. p. 3947; Gaz. vol. 140; p. 681.
- Dowling, M. H., Macedonia, Ohio. Rotary motor or pump. No. 926,731; July 6; Sp. p. 22; Gaz. vol. 144; p. 7.
- Downman-Dozier Manufacturing Company. (See Maier, J. J., assignor.)
- Down, E. U., Waterville, Ohio. Concrete post. No. 931,396; Aug. 17; Sp. p. 3761; Gaz. vol. 145; p. 649.
- Downer, J. E., Allentop, Pa. Antifriction-bearing. No. 922,864; May 25; Sp. p. 5709; Gaz. vol. 142; p. 999.
- Downer, T. J., Colorado Springs, Colo. Centripetal electric switch. No. 925,312; June 15; Sp. p. 4676; Gaz. vol. 143; p. 798.
- Downes, L. W., assignor to D & W Fuse Co., Providence, R. I. Electric fuse. No. 909,564; Jan. 12; Sp. p. 2286; Gaz. vol. 138; p. 405.
- Downey, C. U., Decatur, Ill. Mausoleum construction and the like. No. 912,368; Feb. 16; Sp. p. 2774; Gaz. vol. 139; p. 505.
- Downey, R. F., Milwaukee, Wis., assignor to Automatic Portable Bowling Alley Company. Coin-controlled game apparatus. No. 912,654; Feb. 16; Sp. p. 3360; Gaz. vol. 139; p. 604.
- Downey, W. J. C., South Perth, Western Australia, Australia. Sight for firearms. No. 939,813; Nov. 9; Sp. p. 3010; Gaz. vol. 148; p. 496.
- Downham, J. M., Chicago, Ill. Sash-cord holder. No. 933,166; Sept. 7; Sp. p. 274; Gaz. vol. 140; p. 46.
- Downie, R. M., assignor to Keystone Driller Company, Beaver Falls Pa. Drilling-machine. No. 921,680; May 18; Sp. p. 3284; Gaz. vol. 142; p. 334.
- Downie, T., Liverpool, England. Anchor. No. 913,367; Feb. 23; Sp. p. 4332; Gaz. vol. 139; p. 866.
- Downie, T., Wallasey, England. Door for steam-generators, &c. No. 923,156; June 1; Sp. p. 78; Gaz. vol. 143; p. 12.
- Downie, T., Wallasey, and D. Brown, Bootle, England. Furnace front and door. No. 930,360; Aug. 10; Sp. p. 1496; Gaz. vol. 145; p. 272.
- Downing, C. F., New York, N. Y. Shafting for caissons. No. 932,770; Aug. 31; Sp. p. 6671; Gaz. vol. 145; p. 1145.
- Downing, J. S., Atlanta, Ga. Locomotive ash-pan. No. 931,580; Aug. 17; Sp. p. 4100; Gaz. vol. 145; p. 706.
- Downing, O. L., and H. H. Duley, Cincinnati, Ohio. Adjustable hanger. No. 909,769; Jan. 12; Sp. p. 2688; Gaz. vol. 138; p. 475.
- Downing, W., Pawling, N. Y. Necktie-holder. No. 925,313; June 15; Sp. p. 4678; Gaz. vol. 143; p. 799.
- Downing, W. A., and J. T. McHugh, Pittsburg, Pa. Ticket-holder. No. 917,024; Apr. 6; Sp. p. 133; Gaz. vol. 141; p. 25.
- Downs, A. M. (See Broadwater, D. B., assignor.)
- Downs, B. F. (See Slade and Downs.)
- Downs, G. W., assignor, by mesne assignments, to W. T. Plum, Newark, N. J. Paper or board. No. 918,740; Apr. 20; Sp. p. 3705; Gaz. vol. 141; p. 657.
- Downs, I. G., Hollis, N. Y. Center sill for railway-cars. No. 924,748; June 15; Sp. p. 3559; Gaz. vol. 143; p. 611.
- Downs, J. F. (See Beland and Downs.)
- Downs, J. F., Easton, Pa. Machine for applying tape to armature-coils. No. 923,592; July 20; Sp. p. 3938; Gaz. vol. 144; p. 687.
- Downs, J. E., New York, N. Y. Advertising device. No. 938,225; Oct. 26; Sp. p. 5503; Gaz. vol. 147; p. 940.
- Doxrud, C. O. (See Storie, O. O., assignor.)
- Doxtator, J. A., Grand Rapids, Mich. Revolving inclosed shelving. No. 935,249; Sept. 28; Sp. p. 4574; Gaz. vol. 146; p. 813.
- Doyen, J., Schaerbeek, near Brussels, Belgium. Triple valve for brakes. No. 923,418; June 1; Sp. p. 696; Gaz. vol. 143; p. 102.
- Doyle, A. H., assignor of one-third to A. K. Cawthon, Selma, Ala. Wire-reel. No. 913,472; Feb. 23; Sp. p. 5040; Gaz. vol. 139; p. 901.
- Doyle, J., Madison, Wis. Flexible joint for culverts. No. 931,581; Aug. 17; Sp. p. 4102; Gaz. vol. 145; p. 706.
- Doyle, J. A. (See Keyes, H. E., assignor.)
- Doyle, J. S. (See Hedley and Doyle.)
- Doyle, J. T., Auburn, N. Y. Horse hitching and checking device. No. 944,547; Dec. 28; Sp. p. 5429; Gaz. vol. 149; p. 944.
- Doyle, P. F. (See Thompson, Mackie, and Doyle.)



*Alphabetical list of patentees—Continued.*

- Doyle, T. E., Milwaukee, Wis. Sink-trap. No. 926,552; June 29; Sp. p. 7187; Gaz. vol. 143; p. 1270.
- Doyle, W. J., Evanston, assignor of one-half to J. M. Collins, Chicago, Ill. Vehicle-wheel. No. 916,122; Mar. 23; Sp. p. 5033; Gaz. vol. 140; p. 892.
- Doyle, W. J., Jr., Sherwood, N. D. Plow. No. 944,358; Dec. 28; Sp. p. 4989; Gaz. vol. 149; p. 878.
- Dozier, E. C., Richmond, assignor of one-half to F. S. Evans, Indianapolis, Ind. Oilier attachment for shaft-bearings. No. 916,423; Mar. 30; Sp. p. 5003; Gaz. vol. 140; p. 1016.
- Dozier, W. W., West Nashville, Tenn. Folding chair. No. 938,832; Nov. 2; Sp. p. 826; Gaz. vol. 148; p. 132.
- Dr. Miles Medical Company. (See Fernald, F. K., assignor.)
- Drachenberg, R. E., Detroit, Mich. Starting device for automobiles. No. 911,480; Feb. 2; Sp. p. 858; Gaz. vol. 139; p. 152.
- Draeger, J. H., assignor of one-half to Firm of Draegerwerk, Heintz & Bernh. Draeger, Lübeck, and one-half to E. Wiss, Griesheim-on-the-Main, Germany. Blowpipe. No. 917,934; Apr. 13; Sp. p. 1963; Gaz. vol. 141; p. 356.
- Draegerwerk, Heintz & Bernh. Draeger, *et al.* (See Draeger, J. H., assignor.)
- Draemel, J., Fremont, Nebr. Envelop. No. 913,473; Feb. 23; Sp. p. 5041; Gaz. vol. 139; p. 901.
- Draenert, J., Eilenburg, Germany. Mold for compressing slightly-plastic materials. No. 923,780; June 1; Sp. p. 1509; Gaz. vol. 143; p. 227.
- Draenert, J., Eilenburg, Germany. Artificial-stone press. No. 924,540; June 8; Sp. p. 3111; Gaz. vol. 143; p. 507.
- Drage, S. J., Toledo, Ohio. Window-pane fastener. No. 929,406; July 27; Sp. p. 5628; Gaz. vol. 144; p. 987.
- Drake, A., Brooklyn, N. Y. Bust-supporter. No. 929,407; July 27; Sp. p. 5629; Gaz. vol. 144; p. 987.
- Drake, A. L., and D. R. Smith, Bellingham, Wash. Tobacco-pipe. No. 923,419; June 1; Sp. p. 698; Gaz. vol. 143; p. 103.
- Drake, C. A., West Orange, and S. W. Dodd, Montclair, N. J. Surgical needle. No. 919,138; Apr. 20; Sp. p. 4502; Gaz. vol. 141; p. 786.
- Drake, C. E., assignor to J. L. Drake, Decatur, Ill. Wrench. No. 923,420; June 1; Sp. p. 699; Gaz. vol. 143; p. 103.
- Drake, C. S., Milwaukee, Wis. Cigar-lighter. No. 928,262; July 20; Sp. p. 3226; Gaz. vol. 144; p. 575.
- Drake, E. R., De Land, Fla. Protecting growing plants and vegetables. No. 932,971; Aug. 31; Sp. p. 7031; Gaz. vol. 145; p. 1209.
- Drake, E. R., De Land, Fla. Plant-protector. No. 932,972; Aug. 31; Sp. p. 7032; Gaz. vol. 145; p. 1209.
- Drake, H. C. (See Young, S. L., assignor.)
- Drake, J. L. (See Drake, C. E., assignor.)
- Drake, M. F., Pittsburg, Kans. Pillow-sham holder. No. 925,881; June 22; Sp. p. 5864; Gaz. vol. 143; p. 1014.
- Drake, M. S. (See Meeker and Drake.)
- Drake, P. S., Brunswick, Ohio. Sap-spout. No. 930,361; Aug. 10; Sp. p. 1498; Gaz. vol. 145; p. 272.
- Drake, W., and L. C. Hatch, Black Earth, Wis. Electric switch. No. 917,025; Apr. 6; Sp. p. 136; Gaz. vol. 141; p. 26.
- Drake, W. H., Asheville, N. C. Folding crate. No. 943,525; Dec. 14; Sp. p. 3202; Gaz. vol. 149; p. 539.
- Drake, W. R., and H. J. Pierce, Cloverland, Ind. Railway-rail joint. No. 909,770; Jan. 12; Sp. p. 2689; Gaz. vol. 138; p. 475.
- Drakes Limited. (See Hollander, C., assignor.)
- Draper, C. H., Hopedale, Mass. Power-transmitting mechanism. No. 940,861; Nov. 23; Sp. p. 5354; Gaz. vol. 148; p. 908.
- Draper Company. (See Allen, N. I., assignor.)
- Draper Company. (See Baldwin, A., assignor.)
- Draper Company. (See Beardwell, A. W., assignor.)
- Draper Company. (See Belavance, J., assignor.)
- Draper Company. (See Brooks, J. C., assignor.)
- Draper Company. (See Burbank, L. S., assignor.)
- Draper Company. (See Burgess, R., assignor.)
- Draper Company. (See Clifford, W. E., assignor.)
- Draper Company. (See Cuniff, J. V., assignor.)
- Draper Company. (See Cuniff, Coderre, and Benson, assignors.)
- Draper Company. (See Day, P., assignor.)
- Draper Company. (See Draper and Northrop, assignors.)
- Draper Company. (See Edwards, J. C., assignor.)
- Draper Company. (See Freeman, H. L., assignor.)
- Draper Company. (See Hastings, W. M., assignor.)
- Draper Company. (See Hodgman, F. C., assignor.)
- Draper Company. (See Hollins, D. M., assignor.)
- Draper Company. (See Jamieson, R., assignor.)
- Draper Company. (See Janelle, B., assignor.)
- Draper Company. (See Knight, G. W., assignor.)
- Draper Company. (See Lawrence, L. E., assignor.)
- Draper Company. (See Leitner and Johnson, assignors.)
- Draper Company. (See Lovejoy, C. E., assignor.)
- Draper Company. (See McCullough, P. E., assignor.)
- Draper Company. (See Moore, F. W., assignor.)
- Draper Company. (See Nevin, T., assignor.)
- Draper Company. (See Northrop, J., assignor.)
- Draper Company. (See Nutting, C. E., assignor.)
- Draper Company. (See O'Sullivan, J., assignor.)
- Draper Company. (See Rhoades, A. E., assignor.)
- Draper Company. (See Rhoades and Stimpson, assignors.)
- Draper Company. (See Scott, W. L., assignor.)
- Draper Company. (See Southwick, W. S., assignor.)
- Draper Company. (See Stafford, A. E., assignor.)
- Draper Company. (See Stimpson, E. S., assignor.)
- Draper Company. (See Stone, M. L., assignor.)
- Draper Company. (See Yuill, J. M., assignor.)
- Draper, E. F., St. Louis, Mo. Rolling hoop. No. 932,451; Aug. 31; Sp. p. 5953; Gaz. vol. 145; p. 1038.
- Draper, F. W., assignor to Farrand Organ Company, Detroit, Mich. Regulator for mechanical players for musical instruments. No. 915,420; Mar. 16; Sp. p. 3633; Gaz. vol. 140; p. 633.
- Draper, F. W., assignor to Farrand Organ Company, Detroit, Mich. Self-playing musical instrument. No. 927,507; July 13; Sp. p. 1648; Gaz. vol. 144; p. 296.
- Draper, F. W., assignor to Starr Piano Company, Richmond, Ind. Wind-motor. No. 921,681; May 18; Sp. p. 3288; Gaz. vol. 142; p. 585.
- Draper, G. O., Hopedale, Mass. Resilient tire for vehicles. No. 941,015; Nov. 23; Sp. p. 5681; Gaz. vol. 148; p. 959.
- Draper, H. C., assignor of one-half to T. F. Wadsack, St. Louis, Mo. Merry-go-round. No. 927,508; July 13; Sp. p. 1651; Gaz. vol. 144; p. 297.
- Draper, J. C., and J. W. Reid, Memphis, Tenn. Magnetic T-square. No. 926,247; June 29; Sp. p. 6635; Gaz. vol. 143; p. 1171.
- Draper, L. E., Santa Cruz, Cal. Luggage-carrier. No. 927,956; July 13; Sp. p. 2627; Gaz. vol. 144; p. 446.
- Draper, T., West Kilburn, London, England. Door-holder. No. 943,143; Dec. 14; Sp. p. 2411; Gaz. vol. 149; p. 409.
- Draper, W. F. (See Cuniff, J. V., assignor.)
- Draper, W. F. (See Edmonds, A. B., assignor.)
- Draper, W. F. (See Gauthier, P., assignor.)
- Draper, W. F. (See Northrop, J., assignor.)
- Draper, W. F. (See Northrop and Wood, assignors.)
- Draper, W. F., Hopedale, Mass. Loom-shuttle. No. 909,377; Jan. 12; Sp. p. 1919; Gaz. vol. 138; p. 342.
- Draper, W. F., Hopedale, Mass. Protection mechanism for looms. No. 911,219; Feb. 2; Sp. p. 383; Gaz. vol. 139; p. 67.
- Draper, W. F., and E. S. Wood, Hopedale, Mass.; said Wood assignor to said Draper. Let-off mechanism for looms. No. 912,942; Feb. 16; Sp. p. 3956; Gaz. vol. 139; p. 696.
- Draper, W. F., and J. Northrop, Hopedale, Mass.; said Northrop assignor to said Draper. Loom-shuttle. No. 909,771; Jan. 12; Sp. p. 2690; Gaz. vol. 138; p. 476.
- Draper, W. F., and J. Northrop, assignors to Draper Company, Hopedale, Mass. Automatic filling-replenishing feeler-loom. No. 920,037; Apr. 27; Sp. p. 6572; Gaz. vol. 141; p. 1121.
- Draper, W. F., and J. Northrop, assignors to Draper Company, Hopedale, Mass. Shuttle for automatic filling-replenishing looms. No. 920,038; Apr. 27; Sp. p. 6587; Gaz. vol. 141; p. 1121.
- Drapier, M., Parc St. Maur, France. Transmission mechanism. No. 924,749; June 15; Sp. p. 3560; Gaz. vol. 143; p. 611.
- Draucker, I. L., Liberty, Nebr. Neck-yoke end. No. 914,558; Mar. 9; Sp. p. 1905; Gaz. vol. 140; p. 324.
- Draughon, P. E. (See Bacho and Draughon.)
- Drayer, E. J., Dayton, Ohio. Mold for concrete building construction. No. 910,515; Jan. 26; Sp. p. 4276; Gaz. vol. 138; p. 785.

*Alphabetical list of patentees—Continued.*

- Drees, M. A., Peshtigo, assignor of one-half to J. I. Scott, Marinette, Wis. Folding table. No. 923,500; June 1; Sp. p. 858; Gaz. vol. 143; p. 131.
- Dreger, K. von, Berlin, Germany. Starting device for electromotors. No. 923,157; June 1; Sp. p. 79; Gaz. vol. 143; p. 13.
- Dreger, M., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Vehicle for receiving a portable gun. No. 911,810; Feb. 9; Sp. p. 1542; Gaz. vol. 139; p. 287.
- Dreger, M., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Shrapnel. No. 932,004; Aug. 24; Sp. p. 5065; Gaz. vol. 145; p. 866.
- Dreibuss, C., St. Louis, Mo. Tree or staff holder. No. 913,474; Feb. 23; Sp. p. 5042; Gaz. vol. 139; p. 901.
- Dreibuss, C., and A. F. Kulage, St. Louis, Mo. Railway-rail-joint fastening. No. 934,960; Sept. 21; Sp. p. 3989; Gaz. vol. 146; p. 693.
- Dreijer, A. H., Brooklyn, N. Y., and F. Haight, Spartanburg, S. C. Boiler-cleaner. No. 910,183; Jan. 19; Sp. p. 3536; Gaz. vol. 138; p. 644.
- Dreist, H., Breslau, Germany. Sewing-machine. No. 935,145; Sept. 28; Sp. p. 4373; Gaz. vol. 146; p. 780.
- Dreissvogt, H. C., Santa Clara county, Cal. Inhaling and heating device. No. 929,199; July 27; Sp. p. 5175; Gaz. vol. 144; p. 917.
- Dreizler, G. B., *et al.* (See Taylor, W. H., assignor.)
- Drennan, G. T., Biloxi, Miss. Stocking. No. 940,585; Nov. 16; Sp. p. 4751; Gaz. vol. 148; p. 791.
- Drent, E. I., New Orleans, La. Electric-light bracket. No. 936,869; Oct. 12; Sp. p. 2642; Gaz. vol. 147; p. 440.
- Dresdner, M. M., New York, N. Y. Broiler. No. 943,593; Dec. 14; Sp. p. 3327; Gaz. vol. 149; p. 561.
- Dreska, B. M. (See Foster and Dreska.)
- Dressler, R. G., Coney Island, N. Y. Flying-machine. No. 919,834; Apr. 27; Sp. p. 6181; Gaz. vol. 141; p. 1054.
- Dressmann, R., Covington, Ky., assignor of one-half to C. C. Carter, Cincinnati, Ohio. Rear guard for traction-cars. No. 944,082; Dec. 21; Sp. p. 4406; Gaz. vol. 149; p. 759.
- Dretsch, J., Clark county, S. D. Truck for harvesting-machines. No. 920,117; May 4; Sp. p. 62; Gaz. vol. 142; p. 7.
- Drew, E. N., assignor of two-thirds to A. E. Anderson and P. T. Drew, South Chicago, Ill. Hoisting apparatus. No. 922,105; May 18; Sp. p. 4140; Gaz. vol. 142; p. 723.
- Drew, J., Westwood, N. J. Pipe for smoking-tobacco. No. 944,418; Dec. 28; Sp. p. 5122; Gaz. vol. 149; p. 899.
- Drew, J. C., Dallas, Tex. Heating attachment for lamps. No. 916,424; Mar. 30; Sp. p. 5609; Gaz. vol. 140; p. 1016.
- Drew, P. T., *et al.* (See Drew, E. N., assignor.)
- Drew, S., Rochester, N. Y. Floor-scraping machine. No. 938,652; Nov. 2; Sp. p. 451; Gaz. vol. 148; p. 70.
- Drew, W. T., assignor to New York Improved Meter Company, New York, N. Y. Proving-glass for open-top gas-meters. No. 913,710; Mar. 2; Sp. p. 71; Gaz. vol. 140; p. 13.
- Drew, W. T., New York, N. Y., assignor to New York Improved Meter Company. Prepayment-meter. No. 914,706; Mar. 9; Sp. p. 2218; Gaz. vol. 140; p. 373.
- Drewell, H., Charlottenburg, Germany. Means for electrically operating type-setting machines. No. 915,748; Mar. 23; Sp. p. 4337; Gaz. vol. 140; p. 771.
- Drewell, H., Charlottenburg, assignor to Schnellsetzmaschinen-gesellschaft mit beschränkter Haftung, Berlin, Germany. Carriage-moving device for type-writers. No. 915,749; Mar. 23; Sp. p. 4346; Gaz. vol. 140; p. 772.
- Drewell, H., Charlottenburg, assignor to Schnellsetzmaschinen-gesellschaft mit beschränkter Haftung, Berlin, Germany. Linotype-machine. No. 918,515; Apr. 20; Sp. p. 3167; Gaz. vol. 141; p. 581.
- Drewry, G. (See Fritch, E. D., assignor.)
- Drexler, L., Munich, Germany. Device for planing the rims of casks. No. 909,164; Jan. 12; Sp. p. 1515; Gaz. vol. 138; p. 275.
- Drexler, O., Ohligs, Germany. Head-gear. No. 919,835; Apr. 27; Sp. p. 6183; Gaz. vol. 141; p. 1054.
- Drexler, W. F., Jr. (See Grimm and Drexler.)
- Drexler, W. F., Jr., assignor to Interlocking Fence Company, Morton, Ill. Wire-fabric machine. No. 930,944; Aug. 10; Sp. p. 2720; Gaz. vol. 145; p. 465.
- Dreyer, H. H., Glendive, Mont. Combined gage-wheel and colter. No. 922,405; May 18; Sp. p. 4739; Gaz. vol. 142; p. 821.
- Dreyfus, A. A., A., Handsworth, near Birmingham, and A. H. V. Levy, Edgbaston, near Birmingham, England. Calculating-machine. No. 920,840; May 4; Sp. p. 1510; Gaz. vol. 142; p. 244.
- Dreyfus, A. A., A., Handsworth, near Birmingham, and A. H. V. Lévy, Edgbaston, Birmingham, England. Calculating-machine. No. 932,255; Aug. 24; Sp. p. 5576; Gaz. vol. 145; p. 950.
- Driefer, C. L., San Francisco, Cal. Spring-wheel. No. 929,570; July 27; Sp. p. 5911; Gaz. vol. 144; p. 1039.
- Driesbach, F. K. (See Lanier and Driesbach.)
- Driffill, J. A. (See Ely, M. J., assignor.)
- Driggs, L. L., Sharon, Pa. Rotary engine. No. 928,506; July 20; Sp. p. 3749; Gaz. vol. 144; p. 659.
- Drinkaus, P., Sr., Detroit, Mich. Curtain-fixture. No. 929,923; Aug. 3; Sp. p. 640; Gaz. vol. 145; p. 102.
- Driscoll, J., New Baden, Ill. Safety-elevator. No. 924,750; June 15; Sp. p. 3561; Gaz. vol. 143; p. 611.
- Driscoll, J. B., Clifton Forge, Va. Apparatus for the delivery of mail-bags to moving trains. No. 934,295; Sept. 14; Sp. p. 2681; Gaz. vol. 146; p. 446.
- Driscoll, J. F., and H. Thompson, St. Louis, Mo.; said Thompson assignor of one-sixth to said Driscoll. Asphalt-heater. No. 923,421; June 1; Sp. p. 701; Gaz. vol. 143; p. 103.
- Drisdale, G. M., Tusculumbia, Ala. Refrigerator-can. No. 929,408; July 27; Sp. p. 5630; Gaz. vol. 144; p. 987.
- Drish, F. W., Sullivan, Ill. Adjustable shade and curtain bracket. No. 919,703; Apr. 27; Sp. p. 5889; Gaz. vol. 141; p. 1011.
- Driskell, W. S., assignor of one-third to E. S. Clark and one-third to H. Peters, Gretna, Nebr. Grain-car door. No. 942,551; Dec. 7; Sp. p. 1095; Gaz. vol. 149; p. 177.
- Driver, W. B., East Orange, N. J. Alloy for electrical resistance. No. 943,066; Dec. 14; Sp. p. 2257; Gaz. vol. 149; p. 383.
- Drobniak, F., Jawiszowice, and J. Planecki, Krakau, Austria-Hungary. Cash issuing, indicating, and registering apparatus. No. 932,973; Aug. 31; Sp. p. 7033; Gaz. vol. 145; p. 1210.
- Drohan, T. E., Madison, Wis., assignor to Northern Electrical Manufacturing Company. Driving mechanism. No. 919,836; Apr. 27; Sp. p. 6184; Gaz. vol. 141; p. 1055.
- Drohen, J. L., Dunkirk, N. Y., assignor to J. C. and H. M. Sturgeon, Erie, Pa. Bag-filling machine. No. 933,025; Aug. 31; Sp. p. 7141; Gaz. vol. 145; p. 1227.
- Droitcour, M. A., Pittsburg, Pa. Making printing-plates. No. 912,092; Feb. 9; Sp. p. 2193; Gaz. vol. 139; p. 379.
- Droitcour, M. A., Pittsburg, Pa. Printing-plate. No. 912,093; Feb. 9; Sp. p. 2196; Gaz. vol. 139; p. 379.
- Droke, J. M., Okeene, Okla. Cotton-harvester. No. 923,343; June 1; Sp. p. 539; Gaz. vol. 143; p. 77.
- Droll, A. (See Hardy and Droll.)
- Drossbach & Co., G. P. (See Müller, A., assignor.)
- Drought, E. S. W. (See Dempsey, J. T., assignor.)
- Drouilly, E., Paris, France. Compound vessel. No. 928,033; July 13; Sp. p. 2764; Gaz. vol. 144; p. 472.
- Drowley, A., and D. D. McLean, Priceville, Ontario, Canada. Snow-plow. No. 937,428; Oct. 19; Sp. p. 3831; Gaz. vol. 147; p. 652.
- Droz, C., Basel, Switzerland. Apparatus for automatically filling, weighing, and registering sacks. No. 932,688; Aug. 31; Sp. p. 6484; Gaz. vol. 145; p. 1118.
- Droz, C. A. (See Droz, E. J., C. A., and C. H.)
- Droz, C. H. (See Droz, E. J., C. A., and C. H.)
- Droz, E. J., C. A., and C. H., Pittsburg, Pa. Heater. No. 936,097; Oct. 5; Sp. p. 1045; Gaz. vol. 147; p. 159.
- Drnar, J. F., Buffalo, N. Y. Illuminated sign. No. 936,226; Oct. 5; Sp. p. 1294; Gaz. vol. 147; p. 197.
- Drubel, G. (See Beausejour and Drubel.)
- Drubel, T., *et al.* (See Reinecke, Landgrebe, and Wilhelm, assignors.)
- Drucker, G. A., New York, N. Y. Portable fuse and fuse-block. No. 909,165; Jan. 12; Sp. p. 1519; Gaz. vol. 138; p. 275.
- Drucker, H. N., Cincinnati, Ohio. Trunk-lock. No. 918,662; Apr. 20; Sp. p. 3537; Gaz. vol. 141; p. 630.
- Drucklieb, C. A. (See Drucklieb and Simon, assignors.)
- Drucklieb, C. A., Grimes Hill, Staten Island, N. Y. Detachable and collapsible tip for cigarettes. No. 931,582; Aug. 17; Sp. p. 4103; Gaz. vol. 145; p. 706.
- Drucklieb, J. C., Montclair, N. J. Tobacco-pipe. No. 933,240; Sept. 7; Sp. p. 484; Gaz. vol. 146; p. 74.
- Drucklieb, J. C., Montclair, and C. Simon, Ridgefield Park, N. J., assignors to C. A. Drucklieb, New York, N. Y. Cigarette-machine. No. 933,239; Sept. 7; Sp. p. 475; Gaz. vol. 146; p. 74.
- Druhman, C. A., assignor of one-half to W. J. Fath, Cincinnati, Ohio. Removable and adjustable rocker. No. 921,813; May 18; Sp. p. 3541; Gaz. vol. 142; p. 628.
- Drum, A. L. (See Scott, J. F., assignor.)
- Drum, G. E., and R. P. Smith, Philadelphia, Pa. Reversing mechanism for dyeing-machines. No. 917,026; Apr. 6; Sp. p. 137; Gaz. vol. 141; p. 26.
- Drum, H., Seattle, Wash. Steel forged shoe for tie-bands. No. 918,296; Apr. 13; Sp. p. 2715; Gaz. vol. 141; p. 481.
- Drummond, M. J. and R. A., Cedar Rapids, Iowa. Railway-rail joint. No. 908,978; Jan. 5; Sp. p. 1138; Gaz. vol. 138; p. 180.
- Drummond, R. A. (See Drummond, M. J. and R. A.)



*Alphabetical list of patentees—Continued.*

- Drummond, S. E., Parkersburg, W. Va. Brick-machine. No. 924,972; June 15; Sp. p. 4033; Gaz. vol. 143; p. 687.
- Drury, C. J., La Junta, Colo. Check-valve. No. 937,288; Oct. 19; Sp. p. 3517; Gaz. vol. 147; p. 607.
- Drury, J. J., East Hampton, Conn., assignor to Summit Thread Company, Portland, Me. Spool of thread. No. 928,507; July 20; Sp. p. 3750; Gaz. vol. 144; p. 659.
- Druschel, H., Philadelphia, Pa. Friction-clutch. No. 916,682; Mar. 30; Sp. p. 6142; Gaz. vol. 140; p. 1101.
- Drusin, A., (See Goldfarb, N. J., assignor.)
- Drutman, J. K., New York, N. Y. Garment supporter or hanger. No. 925,997; June 22; Sp. p. 6081; Gaz. vol. 143; p. 1051.
- Druzbach, T., assignor of one-half to J. Happel, Hoboken, N. J. Combined ironing-board, step-ladder, and bench. No. 932,452; Aug. 31; Sp. p. 5954; Gaz. vol. 145; p. 1038.
- Dryden, W., assignor of one-half to J. N. Booth, New York, N. Y. Fireproof wall. No. 915,570; Mar. 16; Sp. p. 3949; Gaz. vol. 140; p. 682.
- Dryden, W. W., Philadelphia, Pa. Prescription balance or scale. No. 923,781; June 1; Sp. p. 1511; Gaz. vol. 143; p. 228.
- Dryden, W. W., assignor to C. E. Troemner, Philadelphia, Pa. Coffee-mill. No. 913,475; Feb. 23; Sp. p. 5043; Gaz. vol. 139; p. 901.
- Dryer, J. B., *et al.* (See Pfister, C. J., assignor.)
- Du Bois & Company, F. N., (See Fleming, W. A., assignor.)
- Du Bois, G. H., San Martin, Cal. Wheel-hub. No. 931,283; Aug. 17; Sp. p. 3528; Gaz. vol. 145; p. 609.
- Du Bois, J. M., *et al.* (See Morris, W. H., assignor.)
- Du Bois, R. G., South Orange, N. J. Lamp-bracket. No. 919,837; Apr. 27; Sp. p. 6187; Gaz. vol. 141; p. 1055.
- Du Bose, C. C., Merryville, La. Saw jointer and gage. No. 941,981; Nov. 30; Sp. p. 7744; Gaz. vol. 148; p. 1304.
- Du Bose, R. S., Odessa, Fla. Railway-rail joint. No. 939,814; Nov. 9; Sp. p. 3012; Gaz. vol. 145; p. 496.
- Du Bose, T. M., Hattiesburg, Miss. Revolver. No. 943,819; Dec. 21; Sp. p. 3843; Gaz. vol. 149; p. 668.
- Du Bruil, A., Newport, Ky. Variable-speed gear. No. 919,329; Apr. 27; Sp. p. 5092; Gaz. vol. 141; p. 883.
- Du Mazuel, E. G., New York, N. Y. Means for reinforcing concrete. No. 922,305; May 18; Sp. p. 4534; Gaz. vol. 142; p. 788.
- Du Pont, F. I., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Production of oxides of nitrogen from the air. No. 943,661; Dec. 21; Sp. p. 3535; Gaz. vol. 149; p. 615.
- Du Pont, F. I., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Evaporating explosive mixtures. No. 944,500; Dec. 28; Sp. p. 5324; Gaz. vol. 149; p. 928.
- Du Ross, J., Detroit, Mich. Gas-burner. No. 913,477; Feb. 23; Sp. p. 5046; Gaz. vol. 139; p. 902.
- Du Ross, J., Detroit, Mich. Hydrocarbon-burner. No. 913,478; Feb. 23; Sp. p. 5047; Gaz. vol. 139; p. 902.
- Dubbs, H. W., St. Louis, Mo. Combined door-bell and alarm. No. 928,369; July 20; Sp. p. 3490; Gaz. vol. 144; p. 616.
- Dubé, J., (See Etienne and Dubé.)
- Dubé, J. J., assignor to M. H. Dube, Chicago, Ill. Combined garbage-burner and water-heater. No. 937,145; Oct. 19; Sp. p. 3213; Gaz. vol. 147; p. 562.
- Dube, M. H., (See Dubé, J. J., assignor.)
- Dubenhorst, F., Steglitz, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Optical distance-measuring instrument. No. 941,503; Nov. 30; Sp. p. 6746; Gaz. vol. 148; p. 1142.
- Dubied & Cie., E., (See Dubied, E., assignor.)
- Dubied & Cie., E., (See Dubied and Popp, assignors.)
- Dubied & Cie., E., (See Popp, B., assignor.)
- Dubied, E., assignor to E. Dubied & Cie., Couvet, Switzerland. Valve for pneumatic tires. No. 929,571; July 27; Sp. p. 5912; Gaz. vol. 144; p. 1039.
- Dubied, E., and B. Popp, assignors to E. Dubied & Cie., Couvet, Switzerland. Racking device for flat-bed knitting-machines. No. 943,921; Dec. 21; Sp. p. 4067; Gaz. vol. 149; p. 704.
- Dubini, E., Milan, Italy. Apparatus for winding and cleaning silk and other fibers. No. 923,032; May 25; Sp. p. 6045; Gaz. vol. 142; p. 1052.
- Dubinsky, M., Philadelphia, Pa. Pattern-former. No. 926,322; June 29; Sp. p. 6783; Gaz. vol. 143; p. 1194.
- Dubinsky, P. K., Philadelphia, Pa. Railway-switch structure. No. 933,167; Sept. 7; Sp. p. 275; Gaz. vol. 146; p. 46.
- Dubisee, J., assignor of one-half to F. J. Lambert, Philadelphia, Pa. Cushioned support for stamping devices. No. 943,342; Dec. 14; Sp. p. 2824; Gaz. vol. 149; p. 475.
- Dubois, G., Chicago, Ill. Snow-melting machine. No. 919,328; Apr. 27; Sp. p. 5090; Gaz. vol. 141; p. 883.
- Dubois, J. A., Besançon, France. Buckle for waist-belts. No. 941,136; Nov. 23; Sp. p. 5946; Gaz. vol. 148; p. 1000.
- Dubose, O. L. A., Rouen, France, assignor to Sté. J. Basler & Cie., Basel, Switzerland. Preparation of camphene. No. 937,928; Oct. 26; Sp. p. 4859; Gaz. vol. 147; p. 839.
- Dubuque, A., Houston, Tex. Cross-head. No. 934,147; Sept. 14; Sp. p. 2416; Gaz. vol. 146; p. 396.
- Ducasne, H., (See Goudard and Mennesson, assignors.)
- Ducasne, H., assignor to Société Anonyme L'Electrique, Paris, France. Electrically-propelled road-vehicle. No. 915,667; Mar. 16; Sp. p. 4166; Gaz. vol. 140; p. 718.
- Ducastel, F. J. M. M., Paris, France. System of foundations for compressible, submerged, or moist ground. No. 922,106; May 18; Sp. p. 4142; Gaz. vol. 142; p. 724.
- Ducharme, D. A., Fitchburg, Mass. Clamp. No. 941,504; Nov. 30; Sp. p. 6747; Gaz. vol. 148; p. 1143.
- Ducharme, J. Z., Alcide, N. D. Sled. No. 939,231; Nov. 9; Sp. p. 1704; Gaz. vol. 148; p. 295.
- Duchemin, E. A. J., Paris, France. Transportable apparatus for decorticating fibrous plants. No. 922,865; May 25; Sp. p. 5710; Gaz. vol. 142; p. 995.
- Duchemin, R. P. T., (See Pagès and Duchemin.)
- Duchesne, C., Geneva, Switzerland. Push-piece device on watch-crowns. No. 915,571; Mar. 16; Sp. p. 3950; Gaz. vol. 140; p. 682.
- Duck, A. W., Oakland, Cal. Bicycle-seat attachment. No. 924,541; June 8; Sp. p. 3114; Gaz. vol. 143; p. 508.
- Duerest, J., Victoria, British Columbia, Canada. Stump-pulling machine. No. 929,661; Aug. 3; Sp. p. 33; Gaz. vol. 145; p. 8.
- Ducrow Loading & Unloading Machine Company, (See Ducrow, M. G., assignor.)
- Ducrow, M. G., assignor to Ducrow Loading & Unloading Machine Company, Natchez, Miss. Loading and unloading apparatus. No. 916,281; Mar. 23; Sp. p. 5323; Gaz. vol. 140; p. 943.
- Duda, J., (See Ishman, F., assignor.)
- Dudley, J., Hamilton, Ontario, Canada, assignor to Dudley Vacuum Sweeper Company, Buffalo, N. Y. Carpet-cleaning machine. No. 924,542; June 8; Sp. p. 3115; Gaz. vol. 143; p. 508.
- Dudley, J. M., Bessemer, Ala. Reinforcing-bar for concrete constructions. No. 928,430; July 20; Sp. p. 3594; Gaz. vol. 144; p. 636.
- Dudley, J. M., Bessemer, Ala. Reinforcing-bar for concrete. No. 931,185; Aug. 17; Sp. p. 3296; Gaz. vol. 145; p. 574.
- Dudley, J. M., Bessemer, Ala. Reinforcing-bar for concrete. No. 939,403; Nov. 9; Sp. p. 2139; Gaz. vol. 148; p. 355.
- Dudley, M. V., Shamrock, Mo. Churn. No. 931,583; Aug. 17; Sp. p. 4104; Gaz. vol. 145; p. 707.
- Dudley, S. A., Taunton, Mass. Loom-shuttle. No. 921,377; May 11; Sp. p. 2654; Gaz. vol. 142; p. 456.
- Dudley Vacuum Sweeper Company, (See Dudley, J., assignor.)
- Dudley, W. R., (See Dudley, Greenleaf, and Dudley.)
- Dudley, W. W., Lancaster, Pa., and L. A. Greenleaf and W. R. Dudley, Trenton, N. J., assignors to Star Speedometer Company. Speed-indicator. No. 917,267; Apr. 6; Sp. p. 636; Gaz. vol. 141; p. 108.
- Due, A. L., Reading, Ohio. Sky-rocket. No. 917,027; Apr. 6; Sp. p. 140; Gaz. vol. 141; p. 27.
- Due, A. L., Reading, Ohio. Sky-rocket. No. 925,567; June 22; Sp. p. 5168; Gaz. vol. 143; p. 910.
- Duede, C. H., Stuart Iowa. Station-indicator. No. 927,405; July 6; Sp. p. 1409; Gaz. vol. 144; p. 233.
- Dueller, H., *et al.* (See Reimecke, Landgrebe, and Wilhelm, assignors.)
- Duenkel, C. L., *et al.* (See Mockridge, J. B., assignor.)
- Duenkel, C. L., East Orange, N. J. Inverted gas-lamp. No. 936,098; Oct. 5; Sp. p. 1046; Gaz. vol. 147; p. 159.
- Duenkel, C. L., East Orange, N. J., assignor of one-half to H. A. Verges, Milwaukee, Wis. Pump-meter. No. 937,516; Oct. 19; Sp. p. 4024; Gaz. vol. 147; p. 683.
- Duenwald, P., Irvington, N. J. Disinfectant-holder. No. 927,132; July 6; Sp. p. 903; Gaz. vol. 144; p. 146.
- Duerden, S., assignor of one-half to Strachan & Henshaw, Limited, Bristol, England. Paper-bag-making machinery. No. 938,553; Nov. 2; Sp. p. 456; Gaz. vol. 148; p. 71.
- Duerling, F. E., assignor of one-third to G. F. Young, Syracuse, N. Y. Metal window-sash. No. 941,629; Nov. 30; Sp. p. 6996; Gaz. vol. 148; p. 1183.
- Duff, A. A., Manistee, Mich. Adjustable piano-bench. No. 919,559; Apr. 27; Sp. p. 5596; Gaz. vol. 141; p. 961.
- Duff, D., New York, N. Y. Book-rest. No. 934,148; Sept. 14; Sp. p. 2417; Gaz. vol. 146; p. 397.
- Duff, E. J., Liverpool, England. Cushion-tire for vehicle-wheels. No. 912,943; Feb. 16; Sp. p. 3960; Gaz. vol. 139; p. 697.
- Duff, J. T., Pittsburg, Pa. Thread-protector for pipe. No. 912,944; Feb. 16; Sp. p. 3961; Gaz. vol. 139; p. 697.
- Duff Manufacturing Company, (See Freed, G. F., assignor.)
- Duff Remedy Company, (See Dormant, F. C., assignor.)
- Duffek, G., Chicago, Ill. Rat-trap. No. 916,921; Mar. 30; Sp. p. 6589; Gaz. vol. 140; p. 1175.
- Duffie, C. E., Omaha, Nebr. Automatic switch-lock. No. 908,979; Jan. 5; Sp. p. 1139; Gaz. vol. 138; p. 180.
- Duffie, C. E., Omaha, Nebr. Railway signal system. No. 910,184; Jan. 19; Sp. p. 3539; Gaz. vol. 138; p. 644.

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- Duffie, C. E., Omaha, Nebr. Electric signal apparatus. No. 920,932; May 11; Sp. p. 1718; Gaz. vol. 142; p. 305.
- Duffie, C. E., Omaha, Nebr. Railway-brake. No. 943,737; Dec. 21; Sp. p. 3682; Gaz. vol. 149; p. 640.
- Duffie, G. M. (See Preston and Duffie.)
- Duffin, Summers and Burke. (See Burke, G. P., assignor.)
- Duford, J. J., et al. (See Heckert, W., assignor.)
- Duffy, C. G., Brooklyn, N. Y., assignor to Hartell-Duffy Company. Merchandise-sample case. No. 918,297; Apr. 13; Sp. p. 2716; Gaz. vol. 141; p. 481.
- Duffy, J. A., Chicago, Ill. Dust collecting and absorbing substance. No. 913,476; Feb. 23; Sp. p. 5045; Gaz. vol. 139; p. 902.
- Duffy, P., New York, N. Y. Piano. No. 913,711; Mar. 2; Sp. p. 72; Gaz. vol. 140; p. 13.
- Duffy, T. I., assignor to Voightmann & Company, Chicago, Ill. Hinge mechanism for windows, &c. No. 925,568; June 22; Sp. p. 5169; Gaz. vol. 143; p. 911.
- Duffy, T. I., assignor of one-half to A. V. Martin and one-half to G. J. Adam, Chicago, Ill. Antiskidding device for tires. No. 931,284; Aug. 17; Sp. p. 3529; Gaz. vol. 145; p. 609.
- Dufour, C., Cambridge, Mass. Apparatus for washing skins. No. 934,961; Sept. 21; Sp. p. 3990; Gaz. vol. 146; p. 693.
- Dufour, J., The Dalles, Oreg. Detachable link. No. 943,220; Dec. 14; Sp. p. 2552; Gaz. vol. 149; p. 433.
- Dugane, A., et al. (See Hammill, J. H., assignor.)
- Dugar, E., Oxford, Mass. Steam-engine valve. No. 919,330; Apr. 27; Sp. p. 5096; Gaz. vol. 141; p. 883.
- Duhring, J. B., and J. C. Wobensmith, Philadelphia, Pa.; said Wobensmith assignor to said Duhring. Blade-holder. No. 914,707; Mar. 9; Sp. p. 2221; Gaz. vol. 140; p. 373.
- Duke, J. S., Hico, Tex. Bin-measuring apparatus. No. 919,139; Apr. 20; Sp. p. 4504; Gaz. vol. 141; p. 787.
- Duke, R. T., West Point, Ark. Automatic wagon-brake. No. 917,563; Apr. 6; Sp. p. 1176; Gaz. vol. 141; p. 205.
- Duke, W., Jr. (See Duke, W. Sr., and W., Jr.)
- Duke, W., Sr., and W., Jr., Philadelphia, Pa. Printing-gage. No. 912,945; Feb. 16; Sp. p. 3962; Gaz. vol. 139; p. 697.
- Dukelow, J. E., Chicago, Ill. Chain driving-belt. No. 921,095; May 11; Sp. p. 2049; Gaz. vol. 142; p. 360.
- Duley, H. H. (See Downing and Duley.)
- Düller, H. (See Ewering, A. W. M., assignor.)
- Dulin, C. E., Glens Falls, assignor of one-half to F. D. Howland, Sandy Hill, N. Y. Armor-tired wheel. No. 937,146; Oct. 19; Sp. p. 3214; Gaz. vol. 147; p. 562.
- Dulinsky, H. A., Muncie, Ind. Coupling. No. 930,162; Aug. 3; Sp. p. 1139; Gaz. vol. 145; p. 185.
- Dully, A. V., and G. H. Woodmore, Yoakum, Tex. Box. No. 912,832; Feb. 16; Sp. p. 3777; Gaz. vol. 139; p. 664.
- Dumaïs, J. B., assignor of one-fourth to E. J. Mercil and one-fourth to B. Mercil, Chicago, Ill. Steering-wheel for automobiles. No. 930,362; Aug. 10; Sp. p. 1499; Gaz. vol. 145; p. 272.
- Dumars, H., Glenridge, N. J. Pencil-marking machine. No. 927,509; July 13; Sp. p. 1652; Gaz. vol. 144; p. 297.
- Dumas, A., Walhalla, N. D. Match-box. No. 916,922; Mar. 30; Sp. p. 6592; Gaz. vol. 140; p. 1175.
- Dumas, E., Springfield, Mass. Apparatus for disposal of garbage. No. 924,152; June 8; Sp. p. 2307; Gaz. vol. 143; p. 378.
- Dumas, M., assignor to L. Monnoyer & Fils, Brussels, Belgium. Reinforced concrete structure. No. 942,625; Dec. 7; Sp. p. 1237; Gaz. vol. 149; p. 202.
- Dumbell, J. B. (See Simpson, W. M., assignor.)
- Dumbolton, P. S., and F. Franz, Burke, Idaho, Insulator. No. 937,736; Oct. 19; Sp. p. 4447; Gaz. vol. 147; p. 755.
- Dumesnil, R., Broussard, La. Barrel-stand. No. 908,760; Jan. 5; Sp. p. 704; Gaz. vol. 138; p. 109.
- Dumond, C. B., Waterbury, Conn. Curtain-bracket. No. 939,815; Nov. 9; Sp. p. 3013; Gaz. vol. 148; p. 496.
- Dumond, F. J., and D. W. Hall, Rose, Kans. Scraper. No. 939,404; Nov. 9; Sp. p. 2141; Gaz. vol. 148; p. 355.
- Dunaway, N. S., assignor of one-half to W. T. Johnson, Helena, and C. L. Spain, Birmingham, Ala. Motor-vehicle. No. 914,933; Mar. 9; Sp. p. 2661; Gaz. vol. 140; p. 446.
- Dunbar, A., Woodstock, New Brunswick, Canada. Logging-engine. No. 929,662; Aug. 3; Sp. p. 36; Gaz. vol. 145; p. 9.
- Dunbar, C. A., Detroit, assignor to L. S. Levvy, Mount Clemens, Mich. Hair-pin. No. 935,969; Oct. 5; Sp. p. 789; Gaz. vol. 147; p. 117.
- Dunbar, E. H., Lynn, Mass. Instep-arch supporter. No. 914,027; Mar. 2; Sp. p. 818; Gaz. vol. 140; p. 125.
- Dunbar, H. F., Turners Falls, Mass. Paper-trimming machine. No. 930,744; Aug. 10; Sp. p. 2308; Gaz. vol. 145; p. 400.
- Dunbar, H. F., Turners Falls, Mass. Plating-machine. No. 939,990; Nov. 16; Sp. p. 3401; Gaz. vol. 148; p. 585.
- Dunbar, T., and L. J. Berg, assignors to Pullman Company, Chicago, Ill. Car construction. No. 926,396; June 29; Sp. p. 6915; Gaz. vol. 143; p. 1217.
- Dunbar, T., and L. J. Berg, assignors to Pullman Company, Chicago, Ill. Car construction. No. 926,645; June 29; Sp. p. 7371; Gaz. vol. 143; p. 1300.
- Dunbar, T., and L. J. Berg, Chicago, Ill., assignors to Metallic Sheathing Company. Car construction. No. 940,378; Nov. 16; Sp. p. 4315; Gaz. vol. 148; p. 723.
- Dunbar, W. A., Lynn, Mass. Machine for mending imperfections in patent-leather. No. 916,124; Mar. 23; Sp. p. 5036; Gaz. vol. 140; p. 892.
- Duncan, A. S., et al. (See Newbaker, W. L., assignor.)
- Duncan, C. A., Duluth, Minn. Water-cooled electrocarbon connection for electric furnaces. No. 915,668; Mar. 16; Sp. p. 4167; Gaz. vol. 140; p. 718.
- Duncan, C. J., Windber, Pa. Water-motor. No. 938,989; Nov. 2; Sp. p. 1169; Gaz. vol. 148; p. 186.
- Duncan, D., Brownwood, Tex. Rotary display-cabinet. No. 937,206; Oct. 19; Sp. p. 3336; Gaz. vol. 147; p. 580.
- Duncan Electric Manufacturing Company. (See Duncan, T., assignor.)
- Duncan, G., McKeesport, assignor to National Tube Co., Pittsburg, Pa. Combined pipe cooling and trimming apparatus. No. 908,761; Jan. 5; Sp. p. 704; Gaz. vol. 138; p. 109.
- Duncan, G. W., Chicago, Ill. Phonograph-horn. No. 914,934; Mar. 9; Sp. p. 2665; Gaz. vol. 140; p. 447.
- Duncan, J. E., Elton, La. Convertible ladder. No. 944,849; Dec. 28; Sp. p. 6088; Gaz. vol. 149; p. 1046.
- Duncan, J. G., et al. (See Gross, C. C. and M. K., assignors.)
- Duncan, J. S., assignor to Addressograph Company, Chicago, Ill. Machine for making printing-plates. No. 921,600; May 11; Sp. p. 3080; Gaz. vol. 142; p. 528.
- Duncan, J. S., assignor to Addressograph Company, Chicago, Ill. Printing-machine. No. 927,510; July 13; Sp. p. 1654; Gaz. vol. 144; p. 297.
- Duncan, T., et al. (See Parks, J. W., assignor.)
- Duncan, T., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Electric meter. No. 929,123; July 27; Sp. p. 5011; Gaz. vol. 144; p. 891.
- Duncan, W. M., Alton, Ill. Journal-box. No. 934,052; Sept. 14; Sp. p. 2196; Gaz. vol. 146; p. 363.
- Duncan, W. W., assignor to Hood Rubber Company, Boston, Mass. Testing-machine. No. 919,140; Apr. 20; Sp. p. 4506; Gaz. vol. 141; p. 787.
- Duncanson, V. E., Lynchburg, Ohio. Clock. No. 916,123; Mar. 23; Sp. p. 5034; Gaz. vol. 140; p. 892.
- Dunklee, F. P. (See Figg, G. W., assignor.)
- Duncon, E. B., and B. See, Detroit, Mich. Berth-ladder. No. 909,876; Jan. 19; Sp. p. 2910; Gaz. vol. 138; p. 541.
- Dundon, P. F., San Francisco, Cal. Skeleton barge. No. 918,516; Apr. 20; Sp. p. 3169; Gaz. vol. 141; p. 581.
- Dundore, J. E., Wilmerding, Pa. Stock and die. No. 936,311; Oct. 12; Sp. p. 1464; Gaz. vol. 147; p. 253.
- Duner, J. C., Wheaton, Ill. Hinge for water-closet seats. No. 914,028; Mar. 2; Sp. p. 819; Gaz. vol. 140; p. 125.
- Duner, J. C., Chicago, Ill. Water-closet. No. 936,706; Oct. 12; Sp. p. 2329; Gaz. vol. 147; p. 386.
- Duner, J. C., Chicago, Ill. Sand-box for cars. (Reissue.) No. 13,063; Dec. 28; Sp. p. 6410; Gaz. vol. 149; p. 1100.
- Durfie, J. W., assignor of one-fourth to J. H. Dieder, one-fourth to M. E. Martin, and one-fourth to J. W. Worst, Fremont, Ohio. Hame-clip; No. 930,945; Aug. 10; Sp. p. 2732; Gaz. vol. 145; p. 465.
- Dungan, E. E., Fort Washington, Pa. Clock. No. 912,833; Feb. 16; Sp. p. 3778; Gaz. vol. 139; p. 664.
- Dunham, A. A., Bainbridge, N. Y., assignor to Casein Company of America. Producing milk-sugar. No. 931,584; Aug. 17; Sp. p. 4106; Gaz. vol. 145; p. 707.
- Dunham, A. C., Hartford, Conn. Apparatus for heating water. No. 937,776; Oct. 26; Sp. p. 4548; Gaz. vol. 147; p. 788.
- Dunham, A. C., Hartford, Conn. Apparatus for heating water. No. 937,777; Oct. 26; Sp. p. 4550; Gaz. vol. 147; p. 788.
- Dunham, C. A., Marshalltown, Iowa. Vacuum air-valve. No. 938,226; Oct. 26; Sp. p. 5505; Gaz. vol. 147; p. 940.
- Dunham, C., Unionville, Conn. Making nuts. No. 928,508; July 20; Sp. p. 3751; Gaz. vol. 144; p. 660.
- Dunham, G., Unionville, Conn. Dies and punches for making nuts. No. 928,509; July 20; Sp. p. 3753; Gaz. vol. 144; p. 660.
- Dunham, G. W., assignor to Olds Motor Works, Lansing, Mich. Valve-operating mechanism. No. 923,422; June 1; Sp. p. 702; Gaz. vol. 143; p. 104.
- Dunham, J. C., Oklahoma, Okla. Automatic wagon-brake. No. 913,272; Feb. 23; Sp. p. 4640; Gaz. vol. 139; p. 832.
- Dunham, O. J., Ames, Iowa. Feeder for concrete-mixers. No. 943,660; Dec. 21; Sp. p. 3533; Gaz. vol. 149; p. 615.
- Dunham, S. D. (See Neumann and Dunham.)
- Dunham, W. G., Brantford, Ontario, Canada. Journal-box lid. No. 914,341; Mar. 2; Sp. p. 1451; Gaz. vol. 140; p. 226.
- Dunham, W. J., Berea, Ohio. Land-roller. No. 942,892; Dec. 14; Sp. p. 1830; Gaz. vol. 149; p. 322.



*Alphabetical list of patentees—Continued.*

- Dunham, W. J., and E. W. Peck, Gloversville, N. Y. Apparatus for harvesting potatoes, onions, &c. No. 942,626; Dec. 7; Sp. p. 1238; Gaz. vol. 149; p. 203.
- Dunkel, W. R., Pana, Ill. Transmission-gear. No. 921,522; May 11; Sp. p. 2934; Gaz. vol. 142; p. 504.
- Dunkerley, W. E. (See Burhans, P. C., assignor.)
- Dunkle, J. B., assignor of one-half to S. S. Dunkle, Veedersburg, Ind. Refrigerator. No. 916,282; Mar. 23; Sp. p. 5324; Gaz. vol. 140; p. 943.
- Dunkle, S. S. (See Dunkle, J. B., assignor.)
- Dunkley Company. (See Dunkley, S. J., assignor.)
- Dunkley, S. J., assignor to Dunkley Company, Kalamazoo, Mich. Peach splitting and pitting machine. No. 921,523; May 11; Sp. p. 2935; Gaz. vol. 142; p. 504.
- Dunlap, D., La Junta, Colo. Draft appliance for self-propelled vehicles. No. 944,956; Dec. 28; Sp. p. 6286; Gaz. vol. 149; p. 1080.
- Dunlap, H. M., Battle Creek, Mich. Bifurcated garment. No. 924,751; June 15; Sp. p. 3563; Gaz. vol. 143; p. 611.
- Dunlap, S. M., Des Moines, Iowa. Shifting jack-screw. No. 942,170; Dec. 7; Sp. p. 315; Gaz. vol. 149; p. 48.
- Dunlap, W. P., Maquoketa, Iowa. Cultivator. No. 918,298; Apr. 13; Sp. p. 2717; Gaz. vol. 141; p. 481.
- Dunlap, Z. F., Cincinnati, Ohio. Umbrella. No. 928,113; July 13; Sp. p. 2908; Gaz. vol. 144; p. 496.
- Dunlavy, C. A., E. G. W. Ferguson, and B. Thoens, New York, N. Y., assignors to said Dunlavy. Aerial tramway. No. 914,397; Mar. 9; Sp. p. 1589; Gaz. vol. 140; p. 270.
- Dunlevy, A. J., *et al.* (See Hill, A. D., assignor.)
- Dunlop, G. H., South Melbourne, Victoria, Australia. Excavating-scoop. No. 915,750; Mar. 23; Sp. p. 4343; Gaz. vol. 140; p. 772.
- Dunmyer, I. S., Crafton, Pa. Hose connection. No. 927,336; July 6; Sp. p. 1277; Gaz. vol. 144; p. 211.
- Dunn, C. A., Denver, Colo., assignor of three-fifths to R. Dunn, San Francisco, Cal. Car-coupling. No. 908,762; Jan. 5; Sp. p. 707; Gaz. vol. 138; p. 110.
- Dunn, E. B. (See Locke and Dunn.)
- Dunn, F. A., and F. G. Glaser, Keokuk, Iowa. Pipe. No. 910,119; Jan. 19; Sp. p. 3384; Gaz. vol. 138; p. 622.
- Dunn, F. B., Conneaut, Ohio. Wire-cut brick. No. 918,980; Apr. 20; Sp. p. 4216; Gaz. vol. 141; p. 736.
- Dunn, F. B., assignor to Dunn Wire-Cut Lug Brick Company, Conneaut, Ohio. Mechanism for cutting wire-cut brick. No. 933,536; Sept. 7; Sp. p. 1187; Gaz. vol. 146; p. 172.
- Dunn, F. E. (See Dunn, I. L., assignor.)
- Dunn, F. E., Springfield, and M. F. Dunn, London, Ohio. Door-securer. No. 908,763; Jan. 5; Sp. p. 709; Gaz. vol. 138; p. 110.
- Dunn, F. P., *et al.* (See Dunn, F. P., assignor.)
- Dunn, F. P., assignor to F. P. Dunn, J. L. Vermillion, G. P. Louiso, and H. F. Dunn, Anderson, Ind. Slicer. No. 914,645; Mar. 9; Sp. p. 2069; Gaz. vol. 140; p. 352.
- Dunn, G., East Orange, assignor to Crocker-Wheeler Company, Ampere, N. J. Brush-rigging for dynamo-electric machines. No. 922,107; May 18; Sp. p. 4143; Gaz. vol. 142; p. 724.
- Dunn, G. F., Brockton, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Cement-applying machine. No. 930,593; Aug. 10; Sp. p. 1996; Gaz. vol. 145; p. 350.
- Dunn, G. R., Whiting, Ind., assignor of one-half to J. Dent, Detroit, Mich. Grain-car. No. 909,565; Jan. 12; Sp. p. 2288; Gaz. vol. 138; p. 408.
- Dunn, G. R., Gary, Ind., assignor of one-half to J. Dent, Detroit, Mich. Grain-door. No. 937,056; Oct. 19; Sp. p. 3025; Gaz. vol. 147; p. 531.
- Dunn, G. S., East Orange, assignor to Crocker-Wheeler Company, Ampere, N. J. Bending metal strips edgewise. No. 918,425; Apr. 13; Sp. p. 2961; Gaz. vol. 141; p. 522.
- Dunn, G. W., Newport, Ky. Wall decoration. No. 932,377; Aug. 24; Sp. p. 5795; Gaz. vol. 145; p. 990.
- Dunn, H. F., *et al.* (See Dunn, F. P., assignor.)
- Dunn, H. J., Oakland, Cal. Poultrie cage or container. No. 914,935; Mar. 9; Sp. p. 2666; Gaz. vol. 140; p. 447.
- Dunn, I. L., *et al.* (See Belson, R. W., assignor.)
- Dunn, I. L., assignor to F. E. Dunn, New York, N. Y. Polisher. No. 922,108; May 18; Sp. p. 4145; Gaz. vol. 142; p. 724.
- Dunn, J. H., Fordyce, Ark. Lamp-burner. No. 932,974; Aug. 31; Sp. p. 7039; Gaz. vol. 145; p. 1210.
- Dunn, J. F., and A. McKaig, Sr., Buffalo, N. Y. Horseshoe. No. 911,812; Feb. 9; Sp. p. 1546; Gaz. vol. 139; p. 287.
- Dunn, J. W., and H. J. Randall, Alger, Mich. Saw-tooth. No. 940,518; Nov. 16; Sp. p. 4611; Gaz. vol. 148; p. 769.
- Dunn, L. (See Parr, R. A., assignor.)
- Dunn, M. F. (See Dunn, F. E. and M. F.)
- Dunn, M. F. (See Jones, R. W., assignor.)
- Dunn, P. S., assignor of one-third to T. F. Fitzsimmons and one-third to D. E. Fitz Gerald, New Haven, Conn. Lock. No. 925,761; June 22; Sp. p. 5609; Gaz. vol. 143; p. 973.
- Dunn, R. (See Dunn, C. A., assignor.)
- Dunn, S. C., Joiner, Ark. Cattle-guard. No. 942,059; Dec. 7; Sp. p. 33; Gaz. vol. 149; p. 8.
- Dunn, T., Jr. (See Westaway, W. C., assignor.)
- Dunn, T. C., Clay Center, Kans., and G. J. Vought, Harmarville, Pa.; said Dunn assignor to said Vought. Animal-trap. No. 936,429; Oct. 12; Sp. p. 1750; Gaz. vol. 147; p. 292.
- Dunn, T. F., New York, N. Y. Flying-machine. No. 942,958; Dec. 14; Sp. p. 1990; Gaz. vol. 149; p. 345.
- Dunn, T. J., Jersey City, N. J. Telegraph-transmitter. No. 923,033; May 25; Sp. p. 6046; Gaz. vol. 142; p. 1053.
- Dunn, T. J., Attleboro, Mass. Bottle. No. 930,651; Aug. 10; Sp. p. 2120; Gaz. vol. 145; p. 369.
- Dunn, T. S., assignor of one-half to G. Renwick, Los Angeles, Cal. Spring-wheel for vehicles. No. 927,511; July 13; Sp. p. 1666; Gaz. vol. 144; p. 288.
- Dunn, W. C., Logansport, Ind. Switch. No. 917,564; Apr. 6; Sp. p. 1177; Gaz. vol. 141; p. 205.
- Dunn, W. H., San Antonio, Tex. Device for sharpening razors. No. 941,564; Nov. 30; Sp. p. 6862; Gaz. vol. 148; p. 1163.
- Dunn, W. J., Montreal, Quebec, Canada. Telescopic article. No. 942,490; Dec. 7; Sp. p. 969; Gaz. vol. 149; p. 156.
- Dunn, W. M., Atlanta, Ind. Billiard-cue. No. 936,614; Oct. 12; Sp. p. 2146; Gaz. vol. 147; p. 355.
- Dunn Wire-Cut Lug Brick Company. (See Dunn, F. B., assignor.)
- Dunnachie, W. J., Coatbridge, Scotland. Making and recovering ammonia, &c. No. 943,399; Dec. 14; Sp. p. 2929; Gaz. vol. 149; p. 494.
- Dünnebie, M. (See Spannuth and Dünnebie.)
- Dünnebie, M. R. (See Spannuth and Dünnebie.)
- Dunnihoo, H. H., Shattuck, Okla. Draft-equalizer. No. 937,365; Oct. 19; Sp. p. 3668; Gaz. vol. 147; p. 632.
- Dunning, E. M. (See Beeland, C. D., assignor.)
- Dunning, R., Cincinnati, Ohio. Car. No. 920,287; May 4; Sp. p. 427; Gaz. vol. 142; p. 65.
- Dunning, S. H., Paterson, N. J. Angle-cock for air-brake systems. No. 911,811; Feb. 9; Sp. p. 1544; Gaz. vol. 139; p. 287.
- Dunning, S. H., Paterson, N. J. Locomotive sanding apparatus. No. 922,109; May 18; Sp. p. 4146; Gaz. vol. 142; p. 725.
- Dunphy, J. J., *et al.* (See Elery, S., assignor.)
- Dunsha, W. H., Geneva, Ohio. Adjustable tool-joint for cultivators. No. 937,778; Oct. 26; Sp. p. 4552; Gaz. vol. 147; p. 788.
- Dunsmuir, F., Florence, Colo. Washing-machine. No. 915,572; Mar. 16; Sp. p. 3952; Gaz. vol. 140; p. 682.
- Dunson, W., Indianapolis, Ind. Reinforced concrete tie. No. 909,378; Jan. 12; Sp. p. 1921; Gaz. vol. 138; p. 343.
- Dunstedter, W. S., Poag, Ill. Strainer for pumps. No. 911,959; Feb. 9; Sp. p. 1908; Gaz. vol. 139; p. 336.
- Duntley, J. W., *et al.* (See Johantgen, O. D., assignor.)
- Duntley, J. W. (See Westaway, W. C., assignor.)
- Duntley, W. O., *et al.* (See Johantgen, O. D., assignor.)
- Duntley, W. O., assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Electric hoist. No. 910,798; Jan. 26; Sp. p. 4850; Gaz. vol. 138; p. 876.
- Duntley, W. O., assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Pneumatic-tool handle. No. 912,655; Feb. 16; Sp. p. 3362; Gaz. vol. 139; p. 604.
- Duntley, W. O., Chicago, Ill., and H. J. Kimman, Cleveland, Ohio, assignors to Chicago Pneumatic Tool Company, Chicago, Ill. Electric drill. No. 936,870; Oct. 12; Sp. p. 2643; Gaz. vol. 147; p. 440.
- Dunton, G. E., New York, N. Y. Preparing molds for electrotypes. No. 914,816; Mar. 9; Sp. p. 2431; Gaz. vol. 140; p. 409.
- Dunton, G. E., New York, N. Y. Backing electrotypes. No. 915,021; Mar. 9; Sp. p. 2806; Gaz. vol. 140; p. 474.
- Dunton, G. E., New York, N. Y. Apparatus for backing electrotypes-plates. No. 931,738; Aug. 24; Sp. p. 4477; Gaz. vol. 145; p. 780.
- Dunton, G. E., New York, N. Y. Preparing molds for electrotypes. No. 936,871; Oct. 12; Sp. p. 2649; Gaz. vol. 147; p. 441.
- Dunwoody, H., U. S. Army. Tuner for wireless telegraphy. No. 934,296; Sept. 14; Sp. p. 2685; Gaz. vol. 146; p. 446.
- Dupen, W., Jr. (See Dupen, W., Sr., and W., Jr.)
- Dupen, W., Sr., Chico, and W. Dupen, Jr., Sacramento, Cal. Alarm-clock. No. 915,573; Mar. 16; Sp. p. 3953; Gaz. vol. 140; p. 683.
- Duphiney, P., Waterbury, Conn. Cigar-holder. No. 918,299; Apr. 13; Sp. p. 2718; Gaz. vol. 141; p. 482.
- Duplex Adding Machine Company. (See Meier, A. G., assignor.)
- Duplex Adding Machine Company. (See Meier, A. J., assignor.)
- Duplex Adding Machine Company. (See Ward, C. D., assignor.)
- Duplex Metals Company. (See Eldred, B. E., assignor.)

*Alphabetical list of patentees—Continued.*

- Duplex Metals Company. (See Monnot, J. F., assignor.)  
 Duplex Metals Company. (See Page, W. M., assignor.)  
 Duplex Printing Press Company. (See Bechman, H. F., assignor.)  
 Duplex Sewing Machine Company. (See Fefel, H. H., assignor.)  
 Dupont, A. (See Leleuvre, E., assignor.)  
 Dupré, W. H., Vicksburg, Miss. Lubricating means. No. 927,337; July 6; Sp. p. 1278; Gaz. vol. 144; p. 211.  
 Duprey, C. A., Mount Clemens, Mich. Pitchfork attachment. No. 910,274; Jan. 19; Sp. p. 3771; Gaz. vol. 138; p. 679.  
 Durand, R. H., St. Louis, Mo. Outing-stool. No. 925,314; June 15; Sp. p. 4679; Gaz. vol. 143; p. 799.  
 Durand, V., Jr., Vineland, N. J., assignor, by mesne assignments, to Caloris Manufacturing Company. Protector for the necks of bottles. No. 941,769; Nov. 30; Sp. p. 7314; Gaz. vol. 148; p. 1232.  
 Durand, W. F., Stanford University, Cal. Planimeter. No. 927,338; July 6; Sp. p. 1281; Gaz. vol. 144; p. 212.  
 Durant, H. T., Bulawayo, Rhodesia, assignor to L. T. Dechow and R. Tweedale, Bulawayo, South Africa. Separation of solids from liquids. No. 924,043; June 8; Sp. p. 2056; Gaz. vol. 143; p. 342.  
 Durant, W. J., Spencer, Iowa. Holder for absorbent cotton. No. 933,537; Sept. 7; Sp. p. 1188; Gaz. vol. 146; p. 172.  
 Durban, T. E., assignor to Erie City Iron Works, Erie, Pa. Water-heater. No. 918,517; Apr. 20; Sp. p. 3171; Gaz. vol. 141; p. 581.  
 Durbin, J. F. and V. S., Fort Scott, Kans. Car-coupling. No. 919,331; Apr. 27; Sp. p. 5097; Gaz. vol. 141; p. 884.  
 Durbin, J. F. and V. S., Fort Scott, Kans. Car-coupling. No. 943,144; Dec. 14; Sp. p. 2413; Gaz. vol. 149; p. 409.  
 Durbin, V. S. (See Durbin, J. F. and V. S.)  
 Durdin, A. C., Jr., assignor of thirty-five one-hundredths to M. I. Weil, Chicago, Ill. Pressure-regulator. No. 916,957; Mar. 30; Sp. p. 6665; Gaz. vol. 140; p. 1183.  
 Durdin, A. C., Jr., assignor of thirty-five one-hundredths to M. I. Weil, Chicago, Ill. Submergible motor. No. 931,008; Aug. 10; Sp. p. 2891; Gaz. vol. 145; p. 486.  
 Durgin, F. H. (See Modlin, F. E., assignor.)  
 Durgin, F. H., assignor to W. F. Belau and C. J. Marcue, Le Mars, Iowa. Draft appliance. No. 918,426; Apr. 13; Sp. p. 2964; Gaz. vol. 141; p. 522.  
 Durkee, C., Vicksburg, Mich. Motor-vehicle. No. 917,422; Apr. 6; Sp. p. 930; Gaz. vol. 141; p. 161.  
 Durkee, C. and C. C. Briggs, Vicksburg, Mich. Fishing-reel. No. 943,820; Dec. 21; Sp. p. 3844; Gaz. vol. 149; p. 608.  
 Durkee, F. M. (See Wood, Durkee, Kelley, and Millet.)  
 Durkee, G. A., Evansville, Ind. Box for the display of articles contained therein. No. 912,094; Feb. 9; Sp. p. 2197; Gaz. vol. 139; p. 380.  
 Durkee, H. W., Cleveland, Ohio. Maniuring device. No. 938,227; Oct. 26; Sp. p. 5507; Gaz. vol. 147; p. 941.  
 Durkee, W. H., New York, N. Y. Deck-plate and the like. No. 917,721; Apr. 6; Sp. p. 1477; Gaz. vol. 141; p. 259.  
 Durkin, J. P., Philadelphia, Pa. Handle. No. 928,950; July 27; Sp. p. 4649; Gaz. vol. 144; p. 834.  
 Durnell, C. M., assignor to M. S. Botts, Camp Branch, Mo. Plowshare-holder. No. 920,442; May 4; Sp. p. 715; Gaz. vol. 142; p. 113.  
 Durning, J. S., Avalon, Pa. Gardening implement. No. 920,933; May 11; Sp. p. 1725; Gaz. vol. 142; p. 305.  
 Durr, A., Shelby, Iowa. Drinking-trough. No. 933,635; Sept. 7; Sp. p. 1372; Gaz. vol. 146; p. 205.  
 Durr, F., Frankfurt-on-the-Main, Germany. Apparatus for injecting fuel into internal-combustion motors. No. 924,044; June 8; Sp. p. 2057; Gaz. vol. 143; p. 342.  
 Durr, H., Crittenden, Ky. Concrete-post machine. No. 930,745; Aug. 10; Sp. p. 2309; Gaz. vol. 145; p. 401.  
 Durrant, O. R., and C. E. Bale, Oshawa, Ontario, Canada. Cinder-sifter. No. 910,048; Jan. 19; Sp. p. 3253; Gaz. vol. 138; p. 600.  
 Durst, L. W., Philadelphia, Pa. Compression grease-cup. No. 936,872; Oct. 12; Sp. p. 2651; Gaz. vol. 147; p. 441.  
 Duryea, C. B., Cardinal, Ontario, Canada. Refining syrup. No. 916,683; Mar. 30; Sp. p. 6142; Gaz. vol. 140; p. 1101.  
 Duryea, C. B., Cardinal, Ontario, Canada. Manufacture of glucose. No. 916,684; Mar. 30; Sp. p. 6143; Gaz. vol. 140; p. 1101.  
 Duryea, C. B., Cardinal, Ontario, Canada. Making maltose. No. 916,685; Mar. 30; Sp. p. 6145; Gaz. vol. 140; p. 1101.  
 Duryea, C. E., Reading, Pa. Instantaneous water-heater. No. 940,240; Nov. 16; Sp. p. 3965; Gaz. vol. 148; p. 675.  
 Duryea, C. E., Reading, Pa., assignor to E. H. Bond, Washington, D. C. Internal-combustion engine. No. 912,546; Feb. 16; Sp. p. 3157; Gaz. vol. 139; p. 566.  
 Duryea, J. F., and W. M. Remington, Springfield, assignors to Stevens-Duryea Company, Chicopee Falls, Mass. Internal-combustion engine. No. 917,722; Apr. 6; Sp. p. 1478; Gaz. vol. 141; p. 259.  
 Duryea, J. F., and W. M. Remington, Springfield, assignors to Stevens-Duryea Company, Chicopee Falls, Mass. Clutch mechanism. No. 920,841; May 4; Sp. p. 1512; Gaz. vol. 142; p. 245.  
 Duryea Manufacturing Company. (See Wooster, F. L., assignor.)  
 Duryea, N. L., Nice, France. Fabric. No. 909,379; Jan. 12; Sp. p. 1922; Gaz. vol. 138; p. 343.  
 Duryea, O. C. (See White and Duryea.)  
 Duschek, E. E., Buenos Ayres, Argentina. Rotative motor. No. 915,751; Mar. 23; Sp. p. 4347; Gaz. vol. 140; p. 772.  
 Dusenberry, A., Ionia, Kans. Windmill-regulator. No. 925,569; June 22; Sp. p. 5171; Gaz. vol. 143; p. 911.  
 Dusinger, G. B., Cleveland, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Trolley-hanger. No. 931,397; Aug. 17; Sp. p. 3762; Gaz. vol. 145; p. 649.  
 Dusinger, G. B., Cleveland, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Trolley-hanger. No. 931,398; Aug. 17; Sp. p. 3763; Gaz. vol. 145; p. 649.  
 Dusinger, G. B., Cleveland, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Trolley-hanger. No. 931,400; Aug. 17; Sp. p. 3766; Gaz. vol. 145; p. 650.  
 Dusinger, S. B. (See Dusinger, S. B. and G. B.)  
 Dusinger, S. B., Pittsburg, Pa., and G. B. Dusinger, Cleveland, Ohio, assignors to Westinghouse Electric & Manufacturing Company. Clutch-hanger clamp. No. 931,399; Aug. 17; Sp. p. 3764; Gaz. vol. 145; p. 650.  
 Dussault, N., New Brunswick, N. J. Wrench. No. 920,288; May 4; Sp. p. 427; Gaz. vol. 142; p. 65.  
 Dusseau, S. V., Erie, Mich. Combined driving and steering wheel for automobile-axes. No. 926,929; July 6; Sp. p. 465; Gaz. vol. 144; p. 75.  
 Disto-Mfg. Co. (See Whitehouse, J. N., assignor.)  
 Dutcher, F., Versailles, Pa. Railway signal-torpedo. No. 928,114; July 13; Sp. p. 2909; Gaz. vol. 144; p. 497.  
 Dutcher, F., Versailles, Pa. Fuse-cap. No. 929,409; July 27; Sp. p. 5631; Gaz. vol. 144; p. 987.  
 Dutcher, F., Versailles, Pa. Railway signal-torpedo. No. 929,410; July 27; Sp. p. 5633; Gaz. vol. 144; p. 988.  
 Dutcher, F., Versailles, Pa. Railway signal-fusee. No. 930,163; Aug. 3; Sp. p. 1140; Gaz. vol. 145; p. 185.  
 Dutcher, F., Versailles, Pa. Fuse-cap. No. 934,897; Sept. 21; Sp. p. 3859; Gaz. vol. 146; p. 670.  
 Dutcher, F., Versailles, Pa. Railway-torpedo. No. 938,465; Nov. 2; Sp. p. 26; Gaz. vol. 148; p. 6.  
 Dutcher, F. L., San Francisco, Cal. Steam generator and heater. No. 923,034; May 25; Sp. p. 6049; Gaz. vol. 142; p. 1053.  
 Dutcher, F. E. (See Gallagher and Dutcher.)  
 Dutches Tool Company. (See Van Houten, F. H., assignor.)  
 Dutches Tool Company. (See Van Houten and Bachman, assignors.)  
 Dutschke, J. G., Cecilia, Ky. Holder for fruit-jars. No. 925,315; June 15; Sp. p. 4680; Gaz. vol. 143; p. 799.  
 Dutschke, J. G., Cecilia, assignor of one-half to A. Knobel, Louisville, Ky. Egg-case fastening. No. 938,131; Oct. 26; Sp. p. 5299; Gaz. vol. 147; p. 906.  
 Dutton, C. F., Jr., Cleveland, Ohio. Dissolving-stereopticon. No. 935,193; Sept. 28; Sp. p. 4465; Gaz. vol. 146; p. 794.  
 Dutton, C. S., Jersey City, N. J., assignor of one-half to H. H. Westinghouse, New York, N. Y. Gas-engine. No. 944,235; Dec. 21; Sp. p. 4705; Gaz. vol. 149; p. 806.  
 Dutton, R. L., Wameta, Kans. Cleaning-pump. No. 910,516; Jan. 26; Sp. p. 4278; Gaz. vol. 138; p. 785.  
 Duty, J. (See Pauley, J. I., assignor.)  
 Duval, J. P., Kansas City, Mo. Plant-protector. No. 914,708; Mar. 9; Sp. p. 2222; Gaz. vol. 140; p. 373.  
 Duval, J. P., Kansas City, Mo. Bed-pad. No. 940,958; Nov. 23; Sp. p. 5555; Gaz. vol. 148; p. 940.  
 Duvall, G. W., Davenport, Iowa, assignor to Lee Broom & Duster Company, Lincoln, Nebr. Broom. No. 915,164; Mar. 16; Sp. p. 3130; Gaz. vol. 140; p. 549.  
 Dwiggins Wire Fence Company. (See Swank, L., assignor.)  
 Dwight, A. S., assignor to F. Bennitt, trustee, Joliet, Ill. Apparatus for roasting and sintering ores. No. 916,391; Mar. 23; Sp. p. 5522; Gaz. vol. 140; p. 981.  
 Dwight, A. S., assignor to F. Bennitt, trustee, Joliet, Ill. Apparatus for roasting and sintering ores. No. 916,392; Mar. 23; Sp. p. 5529; Gaz. vol. 140; p. 981.  
 Dwight, A. S., assignor to F. Bennitt, trustee, Joliet, Ill. Roasting and sintering ore. No. 916,396; Mar. 23; Sp. p. 5544; Gaz. vol. 140; p. 983.  
 Dwight, A. S., assignor to F. Bennitt, trustee, Joliet, Ill. Roasting and sintering ore. No. 916,397; Mar. 23; Sp. p. 5549; Gaz. vol. 140; p. 983.  
 Dwight, A. S., Joliet, Ill., and R. L. Lloyd, New York, N. Y., assignors to F. Bennitt, trustee, Joliet, Ill. Apparatus for roasting and sintering ores. No. 916,393; Mar. 23; Sp. p. 5534; Gaz. vol. 140; p. 981.  
 Dwight, A. S., Joliet, Ill., and R. L. Lloyd, New York, N. Y., assignors to F. Bennitt, trustee, Joliet, Ill. Apparatus for roasting and sintering ores. No. 916,394; Mar. 23; Sp. p. 5539; Gaz. vol. 140; p. 982.



*Alphabetical list of patentees—Continued.*

- Dwight, A. S., Joliet, Ill., and R. L. Lloyd, Cananea, Mexico, assignors to F. Bennitt, trustee, Joliet, Ill. Apparatus for desulfurizing and sintering ores. No. 916,395; Mar. 23; Sp. p. 5541; Gaz. vol. 140; p. 982.
- Dwight, E. W., Philadelphia, Pa. Railroad-crossing. No. 914,025; Mar. 2; Sp. p. 814; Gaz. vol. 140; p. 124.
- Dwight, E. W., Philadelphia, Pa. Railroad-crossing. No. 914,026; Mar. 2; Sp. p. 816; Gaz. vol. 140; p. 125.
- Dwight, J. H., Atlanta, Ga. Fireplace-grate. No. 928,593; July 20; Sp. p. 3942; Gaz. vol. 144; p. 688.
- Dwight Lumber Co. (See Murdoch, J. J., assignor.)
- Dwinnell, R. J. W., Montreal, Quebec, assignor to Perfect Simplex Combustion Company, Montreal, Canada. Smoke-consumer. No. 918,518; Apr. 20; Sp. p. 3172; Gaz. vol. 141; p. 582.
- Dwyer, E. F., Lynn, Mass. Incandescent-electric-lamp tool. No. 910,275; Jan. 19; Sp. p. 3773; Gaz. vol. 138; p. 679.
- Dwyer, E. J., Worcester, Mass. Blind-lock. No. 925,882; June 22; Sp. p. 5865; Gaz. vol. 143; p. 1014.
- Dyas, C. S. (See Bolduan and Dyas.)
- Dyches, J. W., Forney, Tex. Writing instrument. No. 938,654; Nov. 2; Sp. p. 459; Gaz. vol. 148; p. 71.
- Dye, E. R., Monticello, Ind. Heater. No. 929,756; Aug. 3; Sp. p. 260; Gaz. vol. 145; p. 45.
- Dye, R. T., Laclede, Mo. Rotary stacker. No. 909,166; Jan. 12; Sp. p. 1521; Gaz. vol. 138; p. 275.
- Dye Works formerly L. Durand, Huguenin & Co., Firm of. (See Bierer and Lorétan, assignors.)
- Dye-Works formerly L. Durand, Huguenin & Co. (See Vaucher, C., assignor.)
- Dyer Axle Lock-Nut Company. (See Dyer, C. P., assignor.)
- Dyer, C. P., Somerville, assignor to Dyer Axle Lock-Nut Company, Boston, Mass. Nut-lock. No. 913,712; Mar. 2; Sp. p. 74; Gaz. vol. 140; p. 14.
- Dyer, F. L., Montclair, and D. Holden, Orange, assignors to Edison Manufacturing Company, West Orange, N. J. Exhibiting apparatus for moving pictures. No. 937,779; Oct. 26; Sp. p. 4553; Gaz. vol. 147; p. 789.
- Dyer, I., Brazil, Ind. Automatic switch. No. 927,512; July 13; Sp. p. 1668; Gaz. vol. 144; p. 298.
- Dyer, J. B., Ironton, Ohio. Floor-surfacing machine. No. 910,995; Jan. 26; Sp. p. 5212; Gaz. vol. 138; p. 939.
- Dyer, L. H., Washington, D. C., assignor to Enterprise Automobile Company, Hasbrouck Heights, N. J. Automobile vehicle. No. 921,963; May 18; Sp. p. 3861; Gaz. vol. 142; p. 676.
- Dyer, R. N., East Orange, N. J. Refrigerating-machine. No. 942,367; Dec. 7; Sp. p. 704; Gaz. vol. 149; p. 114.
- Dyer, R. N., East Orange, N. J. Automatic air-trap. No. 942,368; Dec. 7; Sp. p. 707; Gaz. vol. 149; p. 115.
- Dyer, W. J. (See Crozier and Dyer.)
- Dyer, W. J., Honolulu, and H. G. Ginaca, Pupukea, assignors to Honolulu Iron Works Company, Honolulu, Hawaii. Hydraulic-pressure apparatus for cane-mills. No. 920,934; May 11; Sp. p. 1726; Gaz. vol. 142; p. 305.
- Dyke, L. E., Dillon, Okla. Calf-wearer. No. 915,083; Mar. 16; Sp. p. 2938; Gaz. vol. 140; p. 522.
- Dykes, S. B., Esbon, Kans. Corn-busking implement. No. 941,505; Nov. 30; Sp. p. 6749; Gaz. vol. 148; p. 1143.
- Dykes, S. F., Hawkinsville, Ga. Seed-planter. No. 912,296; Feb. 16; Sp. p. 2624; Gaz. vol. 139; p. 482.
- Dymock, J., Stockport, England. Machine for the manufacture of paper twine. No. 919,332; Apr. 27; Sp. p. 5099; Gaz. vol. 141; p. 884.
- Dynamit-Aktiengesellschaft vormals Alfred Nobel und Co. (See Aigner, F., assignor.)
- Dyrenforth, D. (See Hockney, C. L., assignor.)
- Dyrenforth, E. F. (See Woollett, E., assignor.)
- Dysart, B., St. Louis, Mo. Dental appliance. No. 924,543; June 8; Sp. p. 3116; Gaz. vol. 143; p. 508.
- Dysart, B., assignor to Adding Typewriter Company, St. Louis, Mo. Recording-machine. No. 913,880; Mar. 2; Sp. p. 446; Gaz. vol. 140; p. 73.
- Dysart, B. W., Los Angeles, Cal. Air-ship. No. 939,483; Nov. 9; Sp. p. 2305; Gaz. vol. 148; p. 382.
- Dyson, A. H., assignor to American Electric Telephone Company, Chicago, Ill. Telephone system. No. 923,035; May 25; Sp. p. 6052; Gaz. vol. 142; p. 1064.
- Dyson, F. A., Conway Springs, Kans. Merry-go-round. No. 935,003; Sept. 28; Sp. p. 4086; Gaz. vol. 146; p. 732.
- Dziedzic, L., Chicago, Ill. Corset. No. 936,099; Oct. 5; Sp. p. 1050; Gaz. vol. 147; p. 160.
- Dzimidan, S. A., Buffalo, N. Y. Curtain-pole and shade-roller holder. No. 932,975; Aug. 31; Sp. p. 7040; Gaz. vol. 145; p. 1210.
- E. Goldman & Co. (See Goldman, S. L., assignor.)
- E. Goldman & Co. (See Paul, J. T. H., assignor.)
- E. Howard Watch Company. (See Mehl, W. B., assignor.)
- E. Ingraham Company. (See Stockton, E. E., assignor.)
- E. Jenckes Manufacturing Company. (See Berry, H. F., assignor.)
- E. Lane Smokeless Furnace and Boiler Co. (See Winkler, E. T., assignor.)
- E. Van Noorden Company. (See Van Noorden, E., assignor.)
- E. A. Mallory and Sons. (See Starr, J. H., assignor.)
- E. C. Atkins & Company. (See Bornman, H. L., assignor.)
- E. C. Atkins & Company. (See Cook, L. C., assignor.)
- E. C. Fuller Company. (See Sturtevant, C. A., assignor.)
- E. H. Huenefeld Company. (See Schmidt, F., assignor.)
- E. H. Mumford Company. (See Bonvillian and Ronceray, assignors.)
- E. I. du Pont de Nemours Powder Company. (See Bacchus, T. W., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Bichel, C. E., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Broadwater, L. H., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Chesney, J., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Donaldson, W. I., assignor.)
- E. I. du Pont de Nemours Powder Company. (See du Pont, E. I., assignor.)
- E. I. du Pont de Nemours Powder Company. (See La Motte, A., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Riley, G. L., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Roewer, F. J. H., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Smith, P. S., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Stillwell, H. A., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Stine, C. M., assignor.)
- E. I. du Pont de Nemours Powder Company. (See Weyel and Jäger, assignors.)
- E. I. du Pont de Nemours Powder Company. (See Woodbury, C. A., assignor.)
- E. I. Horseman Co. (See Clark, C. W., assignor.)
- E. J. Brooks & Co. (See Brooks, E. J., assignor.)
- E. J. Jones Company. (See Sisson, A. T., assignor.)
- E. J. Manville Machine Company. (See Campbell, A. C., assignor.)
- E. J. Wilkins Company. (See Wilkins, M. W., assignor.)
- E. R. Thomas Motor Company. (See Chédru, G., assignor.)
- E. R. Thomas Motor Company. (See Hass, H. J., assignor.)
- E. R. Thomas Motor Company. (See Yapp, T. A., assignor.)
- E. T. Burrowes Company. (See Burrowes, F. M., assignor.)
- E. W. Bliss Co. (See Wilzin, A., assignor.)
- E. W. Bliss Company. (See Bentley, O. D. H., assignor.)
- E. W. Bliss Company. (See Eden, J. A., Jr., assignor.)
- E. W. Bliss Company. (See Holmgren, F., assignor.)
- E. W. Bliss Company. (See Klocke, W., assignor.)
- E. W. Bliss Company. (See Leavitt, F. M., assignor.)
- E. W. Bliss Company. (See Shonnard and Dieter, assignors.)
- Eacrett, A. L. (See Gabel and Eacrett.)
- Eadie, J. M., New York, N. Y., assignor to Eadie Vehicle Gear Company. Steering and turning device for vehicles. No. 922,757; May 25; Sp. p. 5480; Gaz. vol. 142; p. 964.
- Eadie Vehicle Gear Company. (See Eadie, J. M., assignor.)
- Eads Distilled Water Company. (See Eads, W. G., assignor.)
- Eads, J. W., Dallas, Tex. Switch-operating mechanism. No. 915,944; Mar. 23; Sp. p. 4693; Gaz. vol. 140; p. 834.
- Eads, W. G., assignor to Eads Distilled Water Company, Kansas City, Mo. Water-cooler. No. 928,908; July 20; Sp. p. 4568; Gaz. vol. 144; p. 795.
- Eagan, J. J., San Francisco, Cal. System for conducting water and sewage through tunneled streets. No. 908,980; Jan. 5; Sp. p. 1141; Gaz. vol. 138; p. 180.
- Eager, F. L., Waterbury, Conn. Trolley wheel and harp. No. 936,100; Oct. 5; Sp. p. 1054; Gaz. vol. 147; p. 160.
- Eager, H. B., Niles, Mich. Furnace-pipe fitting. No. 925,762; June 22; Sp. p. 5611; Gaz. vol. 143; p. 974.
- Eagle, A. I., and A. E. Carlson, Boise, Idaho. Ore-crusher. No. 933,832; Sept. 14; Sp. p. 1771; Gaz. vol. 146; p. 294.

*Alphabetical list of patentees—Continued.*

- Eagle Lock Co. (See Murphy, J. J., assignor.)  
 Eagle Lock Co. (See Roche, J., assignor.)  
 Eagle Pencil Company. (See Bergquist, E., assignor.)  
 Eagle Pencil Company. (See Crocker, S. H., assignor.)  
 Eagon, H. M., New Comerstown, Ohio. Incandescent gas-lamp. No. 923,631; June 1; Sp. p. 1158; Gaz. vol. 143; p. 178.  
 Earlam, J., Stockport, and J. Wild, Blackley, England. Brake-shoe for the wheels of vehicles. No. 912,369; Feb. 16; Sp. p. 2776; Gaz. vol. 139; p. 506.  
 Earle, G. L. (See Anderson, C. F., assignor.)  
 Earle, J. H., Richmond, Va. Church-offering envelop. No. 927,339; July 6; Sp. p. 1282; Gaz. vol. 144; p. 212.  
 Earling, H. B., Minneapolis, Minn. Railway-road-bed-grading apparatus. No. 913,109; Feb. 23; Sp. p. 4296; Gaz. vol. 139; p. 779.  
 Earll, C. I., New York, N. Y. Trolley-catcher. No. 941,363; Nov. 30; Sp. p. 6432; Gaz. vol. 148; p. 1096.  
 Early, J. M., Goldfield, Nev. Device for tapping cans. No. 917,268; Apr. 6; Sp. p. 639; Gaz. vol. 141; p. 109.  
 Earlywine, C. C., assignor of one-half to H. J. Heilker, Cincinnati, Ohio. Nut-lock. No. 920,551; May 4; Sp. p. 931; Gaz. vol. 142; p. 150.  
 Earnest, G. R., assignor of one-half to H. P. Woodbury, Chaires, Fla. Scaffold. No. 926,860; July 6; Sp. p. 330; Gaz. vol. 144; p. 53.  
 Earnhardt, J. W., Los Angeles, Cal. Pneumatic tire. No. 920,289; May 4; Sp. p. 428; Gaz. vol. 142; p. 65.  
 Easdale, G., assignor of one-half to Ketchum & Company, Ottawa, Ontario, Canada. Recoil-absorber for firearms. No. 910,276; Jan. 19; Sp. p. 3774; Gaz. vol. 138; p. 680.  
 Easley, O. J. (See Easley, S. B. and O. J.)  
 Easley, S. B. and O. J., Defiance, Ohio. Square. No. 941,313; Nov. 23; Sp. p. 6325; Gaz. vol. 148; p. 1057.  
 Easley, W. F., New York, N. Y. Lemon-juice extractor. No. 921,378; May 11; Sp. p. 2655; Gaz. vol. 142; p. 457.  
 Eason, H. H., Chicago, Ill. Hydrocarbon incandescent lamp. No. 914,709; Mar. 9; Sp. p. 2223; Gaz. vol. 140; p. 373.  
 Eason, H. H., Chicago, Ill., assignor to Acorn Brass Manufacturing Company. Lamp and feeding-tube connection and support. No. 909,069; Jan. 5; Sp. p. 1303; Gaz. vol. 138; p. 209.  
 Eason, W. B., assignor of one-half to R. A. Endsley, Era, Ark. Bucket-bail. No. 912,095; Feb. 9; Sp. p. 2198; Gaz. vol. 139; p. 380.  
 East, F. F., Baltimore, Md. Shipping-package. No. 939,232; Nov. 9; Sp. p. 1706; Gaz. vol. 148; p. 296.  
 Easterling, E. W., Nickelsville, Va. Mail-box. No. 932,453; Aug. 31; Sp. p. 5955; Gaz. vol. 145; p. 1038.  
 Easterling, R. W. (See Perrenot, G. F., assignor.)  
 Eastern Counter Company. (See Mayo, T. H., assignor.)  
 Eastern Sales Book Company. (See Wilson, W. G., assignor.)  
 Eastern Salesbook Company. (See Carney and Stine, assignors.)  
 Eastham, M., assignor to Clapp-Eastham Company, Boston, Mass. Variable-inductance winding. No. 916,541; Mar. 30; Sp. p. 5880; Gaz. vol. 140; p. 1055.  
 Eastlack, F. F., Jr. (See Bunn, J. D., assignor.)  
 Eastling, E. L., assignor of one-half to L. W. Eastling, Plainfield, Wis. Railway-spike. No. 910,364; Jan. 19; Sp. p. 3948; Gaz. vol. 138; p. 710.  
 Eastling, L. W. (See Eastling, E. L., assignor.)  
 Eastman, C. J. (See McCandless, S. C., assignor.)  
 Eastman, C. J., Los Angeles, Cal. Cable traction apparatus. No. 938,655; Nov. 2; Sp. p. 462; Gaz. vol. 148; p. 71.  
 Eastman, E., Ogden City, Utah. Mechanical toy. No. 937,780; Oct. 26; Sp. p. 4557; Gaz. vol. 147; p. 789.  
 Eastman, E. H., Hot Springs, Ark. Surgical applicator. No. 940,519; Nov. 16; Sp. p. 4612; Gaz. vol. 148; p. 769.  
 Eastman, F. P., New York, N. Y. Dumping-scow. No. 927,957; July 13; Sp. p. 2629; Gaz. vol. 144; p. 447.  
 Eastman, G. P., Riverside, Cal. Dry-battery cell. No. 912,946; Feb. 16; Sp. p. 3964; Gaz. vol. 139; p. 698.  
 Eastman, J. B., Smethport, Pa. Twine take-up. No. 939,233; Nov. 9; Sp. p. 1707; Gaz. vol. 148; p. 296.  
 Eastman Kodak Co. (See Barnes, F. W., assignor.)  
 Eastman Kodak Co. (See Fallesen, G. J., assignor.)  
 Eastman Kodak Co. (See Folmer, W. F., assignor.)  
 Eastman Kodak Co. (See Ingersoll, T. W., assignor.)  
 Eastman Kodak Co. (See Kroedel, R., assignor.)  
 Eastman Kodak Co. (See Overland, T. M. K., assignor.)  
 Eastman Kodak Co. (See Robertson, J. A., assignor.)  
 Eastman Kodak Company. (See Church, F. F., assignor.)  
 Eastman Kodak Company. (See Hutchings, C. E., assignor.)  
 Eastman Kodak Company. (See Marks, P. J., assignor.)  
 Eastman, M. and W., Roslyn, N. Y. Motor for automobiles. No. 923,632; June 1; Sp. p. 1159; Gaz. vol. 143; p. 178.  
 Eastman, M. and W., Roslyn, N. Y. Motor for automobiles. (Reissue.) No. 12,993; July 20; Sp. p. 4589; Gaz. vol. 144; p. 799.  
 Eastman Machine Company. (See Clark, F. J., assignor.)  
 Eastman, W. (See Eastman, M. and W.)  
 Eastman, W. (See Eastman, M. and W.) (Reissue.)  
 Eastman, W. E., Boston, Mass. Freight-car and heating appliance. No. 933,241; Sept. 7; Sp. p. 485; Gaz. vol. 146; p. 74.  
 Eastman, W. H., Concord, N. H. Miter-box. No. 922,680; May 25; Sp. p. 5314; Gaz. vol. 142; p. 939.  
 Easton, W. B., Chicago, Ill. Chilian mill. No. 931,186; Aug. 17; Sp. p. 5297; Gaz. vol. 145; p. 574.  
 Eastwood, A. B., assignor of one-half to W. Summers, Detroit, Mich. Saw. No. 917,565; Apr. 6; Sp. p. 1179; Gaz. vol. 141; p. 206.  
 Eastwood, A. C., Cleveland, Ohio. Protective system for electric railways. No. 908,650; Jan. 5; Sp. p. 474; Gaz. vol. 138; p. 74.  
 Eastwood, A. C., Cleveland, Ohio. Protective device for electric circuits. No. 922,464; May 25; Sp. p. 4877; Gaz. vol. 142; p. 869.  
 Eastwood, A. C., Cleveland, Ohio. Apparatus for breaking and transporting iron products. No. 926,691; June 29; Sp. p. 7467; Gaz. vol. 143; p. 1316.  
 Eastwood, A. C., Cleveland, Ohio. Lifting-magnet. No. 927,513; July 13; Sp. p. 1669; Gaz. vol. 144; p. 298.  
 Eastwood, A. C., Cleveland, Ohio. Lifting-magnet. No. 928,510; July 20; Sp. p. 3757; Gaz. vol. 144; p. 660.  
 Eastwood, A. C., Cleveland, Ohio. Power generating and distributing system. No. 930,363; Aug. 10; Sp. p. 1500; Gaz. vol. 145; p. 273.  
 Eastwood, A. C., Cleveland, Ohio. System of control for electric motors. No. 940,241; Nov. 16; Sp. p. 3967; Gaz. vol. 148; p. 675.  
 Eastwood, A. C., Cleveland, Ohio. Control system for electric motors. No. 943,011; Dec. 14; Sp. p. 2118; Gaz. vol. 149; p. 363.  
 Eastwood, E. E., Piper City, Ill. Detachable spur for vehicle-wheels. No. 938,990; Nov. 2; Sp. p. 1171; Gaz. vol. 148; p. 187.  
 Eastwood, J., assignor to Benjamin Eastwood Company, Paterson, N. J. Means for detecting enlargements in thread. No. 943,662; Dec. 21; Sp. p. 3536; Gaz. vol. 149; p. 615.  
 Eaton, A. L., deceased, New York, N. Y.; C. S. Eaton, executrix. Rivet. No. 940,442; Nov. 16; Sp. p. 4449; Gaz. vol. 148; p. 744.  
 Eaton, A. N., Omaha, Nebr. Stock-watering tank. No. 922,681; May 25; Sp. p. 5316; Gaz. vol. 142; p. 939.  
 Eaton, A. N., Omaha, Nebr. Watering-tank. No. 933,066; Sept. 7; Sp. p. 59; Gaz. vol. 146; p. 10.  
 Eaton, A. N., Omaha, Nebr. Milk-crating device. No. 934,898; Sept. 21; Sp. p. 3860; Gaz. vol. 146; p. 670.  
 Eaton, A. N., Omaha, Nebr. Grain-bin. No. 935,096; Sept. 28; Sp. p. 4278; Gaz. vol. 146; p. 764.  
 Eaton, B. M., Springfield, Mass. Receptacle and closure therefor. No. 919,838; Apr. 27; Sp. p. 6188; Gaz. vol. 141; p. 1055.  
 Eaton, C. E. (See Eaton, T. F. and C. E.)  
 Eaton, C. S., executrix. (See Eaton, A. L.)  
 Eaton, C. S., Orr, N. D. Grain-car door. No. 931,739; Aug. 24; Sp. p. 4481; Gaz. vol. 145; p. 780.  
 Eaton, C. S., New York, N. Y. Belt-fastener. No. 940,443; Nov. 16; Sp. p. 4451; Gaz. vol. 148; p. 744.  
 Eaton, D. (See George, J. H., assignor.)  
 Eaton, F. L. (See Steele, G., assignor.)  
 Eaton, G. M., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Resilient wheel. No. 917,855; Apr. 13; Sp. p. 1790; Gaz. vol. 141; p. 329.  
 Eaton, G. M., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Resilient link. No. 937,289; Oct. 19; Sp. p. 3519; Gaz. vol. 147; p. 608.  
 Eaton, G. M., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Torque-opposing device. No. 937,290; Oct. 19; Sp. p. 3520; Gaz. vol. 147; p. 608.  
 Eaton, G. M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resilient driving connection. No. 937,291; Oct. 19; Sp. p. 3521; Gaz. vol. 147; p. 608.  
 Eaton, H. H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Eyeletting-machine. No. 908,453; Jan. 5; Sp. p. 40; Gaz. vol. 138; p. 9.  
 Eaton, H. H., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for making lacing-hooks. No. 936,430; Oct. 12; Sp. p. 1751; Gaz. vol. 147; p. 293.  
 Eaton, H. H., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for setting lacing hooks or studs. No. 936,431; Oct. 12; Sp. p. 1757; Gaz. vol. 147; p. 293.  
 Eaton, H. H., and G. Goddu, Winchester, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Machine for making lacing-hooks. No. 932,005; Aug. 24; Sp. p. 5066; Gaz. vol. 145; p. 867.



*Alphabetical list of patentees—Continued.*

- Eaton, J. A., Chicago, Ill. Compound rotary engine. No. 925,467; June 22; Sp. p. 4974; Gaz. vol. 143; p. 878.  
 Eaton, J. F., (See Black and Eaton.)  
 Eaton, O. A., *et al.* (See Griffin, W. L., assignor.)  
 Eaton, R. M., Niagara Falls, N. Y., assignor to Dean Electric Company, Elyria, Ohio. Telephone metering system. No. 928,115; July 13; Sp. p. 2910; Gaz. vol. 144; p. 497.  
 Eaton, R. W., Brunswick, Me. Thread-board cleaner for spinning-machines. No. 919,704; Apr. 27; Sp. p. 5890; Gaz. vol. 141; p. 1011.  
 Eaton, T. F. and C. E., Brockton, Mass. Arch-shank for shoe-soles. No. 921,379; May 11; Sp. p. 2657; Gaz. vol. 142; p. 457.  
 Eaton, W. G. (See MacFarland and Eaton.)  
 Eaton, W. H., Clay Center, Kans. Petroleum-burner. No. 940,305; Nov. 16; Sp. p. 4131; Gaz. vol. 148; p. 697.  
 Eba, B., North Warren, Pa. Bone-black kiln. No. 940,520; Nov. 16; Sp. p. 4613; Gaz. vol. 148; p. 770.  
 Ebbels, A. L., New York, N. Y. Piano-pedal and making the same. No. 923,036; May 25; Sp. p. 6058; Gaz. vol. 142; p. 1054.  
 Ebel, F. X., and L. H. Vollrath, assignors of one-third to G. B. Ferrick, Buffalo, N. Y. Ratchet-wrench. No. 934,962; Sept. 21; Sp. p. 3992; Gaz. vol. 146; p. 693.  
 Ebeling, M., Jr., Barmen, Germany. Device for stopping winding-frames and doubling-frames by means of a measuring-clock. No. 934,053; Sept. 14; Sp. p. 2197; Gaz. vol. 146; p. 363.  
 Eberding, J., Hanover, Germany. Rail-joint. No. 931,740; Aug. 24; Sp. p. 4483; Gaz. vol. 145; p. 781.  
 Eberhard, R., Stockton, Cal. Leveling instrument. No. 915,084; Mar. 16; Sp. p. 2939; Gaz. vol. 140; p. 522.  
 Eberhard, R., Munich, Germany. Water-glass compound and making the same. No. 944,957; Dec. 28; Sp. p. 6288; Gaz. vol. 149; p. 1081.  
 Eberhardt, H., Berlin, Germany. Spring-button for gloves, articles of clothing, shoes, and the like. No. 921,524; May 11; Sp. p. 2938; Gaz. vol. 142; p. 505.  
 Eberhart, C., *et al.* (See Burns, H. B., assignor.)  
 Eberhart, F. (See Weber, Eberhart, and Swangren.)  
 Eberhart, F., New York, N. Y. Conveyer. No. 941,364; Nov. 30; Sp. p. 6438; Gaz. vol. 148; p. 1096.  
 Eberhart, F., assignor to American Can Company, New York, N. Y. Sheet-metal pocket tobacco-box. No. 918,519; Apr. 20; Sp. p. 3174; Gaz. vol. 141; p. 582.  
 Eberhart, F., assignor to American Can Company, New York, N. Y. Sheet-metal pocket-box for tobacco and other articles. No. 918,520; Apr. 20; Sp. p. 3175; Gaz. vol. 141; p. 582.  
 Eberhart, F., assignor to American Can Company, New York, N. Y. Sheet-metal tobacco-box. No. 928,951; July 27; Sp. p. 4650; Gaz. vol. 144; p. 835.  
 Eberle, A., New York, N. Y. Book-mark. No. 922,110; May 18; Sp. p. 4147; Gaz. vol. 142; p. 710.  
 Eberle, J. A., assignor to Perfection Manufacturing Company, St. Louis, Mo. Umbrella. No. 918,830; Apr. 20; Sp. p. 3891; Gaz. vol. 141; p. 686.  
 Eberle, W., Ettlingen, near Karlsruhe, Germany. Blasting-powder. No. 910,365; Jan. 19; Sp. p. 3949; Gaz. vol. 138; p. 710.  
 Eberline, L., and F. M. Wanzer, Biglake, Wash. Belt-stretcher. No. 944,958; Dec. 28; Sp. p. 6291; Gaz. vol. 149; p. 1081.  
 Eberman, I. E., Lakewood, assignor of one-half to C. E. Carter, Cleveland, Ohio. Base-ball-game apparatus. No. 930,164; Aug. 3; Sp. p. 1142; Gaz. vol. 145; p. 185.  
 Ebersole, C. F., Keokuk, Iowa, assignor to Electric Service Supplies Company, Philadelphia, Pa. Fluid-pressure engine. No. 942,441; Dec. 7; Sp. p. 849; Gaz. vol. 149; p. 139.  
 Ebersole, E. L. (See Neff, Cole, and Ebersole.)  
 Ebersson, A. A. (See Lemcke, L., assignor.)  
 Ebert, F. B., Humboldt, Kans. Safety truck-frame. No. 918,521; Apr. 20; Sp. p. 3177; Gaz. vol. 141; p. 583.  
 Ebert, K. J., Cologne, Germany. Breech mechanism for small-arms. No. 924,224; June 8; Sp. p. 2484; Gaz. vol. 143; p. 403.  
 Ebinger, D. A., Columbus, Ohio. Wall-urinal. No. 921,096; May 11; Sp. p. 2051; Gaz. vol. 142; p. 361.  
 Ebinger, D. A., assignor to Columbus Heating and Ventilating Company, Columbus, Ohio. Closet-seat. No. 911,220; Feb. 2; Sp. p. 386; Gaz. vol. 139; p. 67.  
 Eblen, J. L., Alton, and H. Kirkendall, Birch Tree, Mo. Bracket for vehicle-lamps. No. 924,045; June 8; Sp. p. 2058; Gaz. vol. 143; p. 343.  
 Ebner, P., Columbus, Ohio. Vehicle-wheel. No. 914,710; Mar. 9; Sp. p. 2225; Gaz. vol. 140; p. 374.  
 Ebrenez, P. E., assignor to John Deere Plow Company, St. Louis, Mo. Vehicle-thill. No. 927,778; July 13; Sp. p. 2232; Gaz. vol. 144; p. 386.  
 Ebsary, F. G., *et al.* (See Barr, J. U., assignor.)  
 Eby, J. H. (See Sperry and Eby.)  
 Ecabert, F., New York, N. Y. Closure. No. 942,171; Dec. 7; Sp. p. 317; Gaz. vol. 149; p. 48.  
 Ecard, J. F., assignor to Troy Wagon Works Company, Troy, Ohio. Dump-wagon. No. 923,253; June 1; Sp. p. 290; Gaz. vol. 143; p. 46.  
 Eccles, H., Laclede, Mo., assignor to S. L. Van Akin, Jr., Syracuse, N. Y. Telephone. No. 936,432; Oct. 12; Sp. p. 1766; Gaz. vol. 147; p. 293.  
 Eccleston, S. S., assignor of one-half to J. J. Nash, Syracuse, N. Y. Stand. No. 913,110; Feb. 23; Sp. p. 4300; Gaz. vol. 139; p. 779.  
 Eccleston, S. S., assignor of one-half to A. N. Brundage, Syracuse, N. Y. Sink stand or shelf. No. 916,283; Mar. 23; Sp. p. 5326; Gaz. vol. 140; p. 943.  
 Echois, G. H., Springfield, W. Va. Ice-creeper for horseshoes. No. 940,381; Nov. 16; Sp. p. 4322; Gaz. vol. 148; p. 724.  
 Eck, R., assignor of one-half to W. P. Crockett and one-half to Eck Tool Company, Chicago, Ill. Pipe-cutter. No. 922,111; May 18 Sp. p. 4149; Gaz. vol. 142; p. 725.  
 Eck Tool Company *et al.* (See Eck, R., assignor.)  
 Eckardt, A., San Francisco, Cal. Blowing-can. No. 913,816; Mar. 2; Sp. p. 289; Gaz. vol. 140; p. 49.  
 Eckart, E., New Rochelle, N. Y. Compartment-can. No. 929,842; Aug. 3; Sp. p. 475; Gaz. vol. 145; p. 75.  
 Eckart, E., New Rochelle, assignor to Gerstendorfer Bros., New York, N. Y. Stain-indicator. No. 935,474; Sept. 28; Sp. p. 5011; Gaz. vol. 146; p. 885.  
 Eckart, W. R., San Francisco, Cal. Water-wheel-bucket attachment. No. 924,544; June 8; Sp. p. 3120; Gaz. vol. 143; p. 509.  
 Eckel, E. C. (See Spencer and Eckel.)  
 Ecker, E. E., assignor of one-half to R. McClintock, Kansas City, Mo. Trolley-wheel. No. 930,275; Aug. 3; Sp. p. 1324; Gaz. vol. 145; p. 219.  
 Eckert, E. G. (See Hoke, H. E., assignor.)  
 Eckert, J., Denver, Colo. Hot-air forming and feeding device for heating apparatus. No. 925,570; June 22; Sp. p. 5172; Gaz. vol. 143; p. 912.  
 Eckert, J. C., administrator. (See Fox, C.)  
 Eckert, L., Rancher, Mont. Buckle. No. 914,029; Mar. 2; Sp. p. 820; Gaz. vol. 140; p. 126.  
 Eckert, W., Stamford, Conn. Carbureter. No. 912,998; Feb. 23; Sp. p. 4087; Gaz. vol. 139; p. 741.  
 Eckert, W., Stamford, Conn. Carbureter. No. 912,999; Feb. 23; Sp. p. 4089; Gaz. vol. 139; p. 742.  
 Eckert, W., Northwood, Iowa. Spring-wheel. No. 929,572; July 27; Sp. p. 5913; Gaz. vol. 144; p. 1039.  
 Eckert, W. I., South Bethlehem, Pa. Brake-beam for railway-cars. No. 927,645; July 13; Sp. p. 1957; Gaz. vol. 144; p. 343.  
 Eckhardt, H., Pittsburg, Pa. Lock. No. 938,991; Nov. 2; Sp. p. 1172; Gaz. vol. 148; p. 187.  
 Eckland, C., Stockton, Cal. Oil-burner. No. 939,816; Nov. 9; Sp. p. 3015; Gaz. vol. 148; p. 497.  
 Eckler, F. A., *et al.* (See Warner, D., assignor.)  
 Eckliff, C. C., Grand Haven, Mich. Water-circulator for boilers. No. 939,991; Nov. 16; Sp. p. 3403; Gaz. vol. 148; p. 586.  
 Eckrode, C. E., Milton, assignor to Johnson and Johnson, New Brunswick, N. J. Surgical device. No. 923,118; May 25; Sp. p. 6233; Gaz. vol. 142; p. 1080.  
 Eclipse Governor Company. (See Kimble, J. E., assignor.)  
 Eclipse Holding Company. (See Roney, T. F., assignor.)  
 Eclipse Machine Company. (See Couper, G. H., assignor.)  
 Eclipse Machine Company. (See Ellett, F. S., assignor.)  
 Eclipse Machine Company. (See Ellett and Forsyth, assignors.)  
 Eclipse Machine Company. (See Helman, R. C., assignor.)  
 Eclipse Manufacturing Company. (See Lewis, L. C., assignor.)  
 Eclipse Railway Supply Company. (See Lev, B., assignor.)  
 Eco Magneto Clock Company. (See Fessenden, G. B., assignor.)  
 Economic Safety Automobile Wheel Company. (See Stanley, C., assignor.)  
 Economic Specialty Company. (See Clark, G., assignor.)  
 Economy Electric Company. (See Hertzberg and Wohl, assignors.)  
 Economy Electric Company. (See Low and Hertzberg, assignors.)  
 Economy Electric Company. (See Wohl and Low, assignors.)  
 Economy Light Company. (See Cohen, M. I., assignor.)  
 Eddins, E. R. (See Sparks and Eddins.)  
 Eddins, W. T., Edenfield, Fla. Playing-cards. No. 928,511; July 20; Sp. p. 3760; Gaz. vol. 144; p. 660.  
 Eddy, C. F. A., San Bernardino, Cal., assignor of one-half to B. H. Norton, New York, N. Y. Foldable tray. No. 914,036; Mar. 2; Sp. p. 821; Gaz. vol. 140; p. 126.

*Alphabetical list of patentees—Continued.*

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 Eddy, D. M., Topeka, Kans. Building-mold. No. 937,781; Oct. 26; Sp. p. 4560; Gaz. vol. 147; p. 789.  
 Eddy, J. A., McAlester, Okla. Gas-heater. No. 928,742; July 20; Sp. p. 4237; Gaz. vol. 144; p. 738.  
 Eddy, L. R., Elizabeth, N. J. Sash-lock. No. 917,567; Apr. 6; Sp. p. 1183; Gaz. vol. 141; p. 207.  
 Eddy, N. M., Alpena, Mich. Heating apparatus. No. 917,566; Apr. 6; Sp. p. 1180; Gaz. vol. 141; p. 206.  
 Eddy, T. R., Chicago, Ill. Loose-leaf ledger. No. 924,647; June 15; Sp. p. 3344; Gaz. vol. 143; p. 576.  
 Edelbrock, F. B., Fort Worth, Tex. Harness-saddle. No. 911,299; Feb. 2; Sp. p. 549; Gaz. vol. 139; p. 94.  
 Edeleanu, L., Ploieschi, Roumania. Purifying crude petroleum and its distillates. No. 911,553; Feb. 2; Sp. p. 1015; Gaz. vol. 139; p. 175.  
 Edelen, G. S., Washington, D. C. Means for automatically regulating the supply of heating medium for scientific and similar apparatus. No. 923,957; June 8; Sp. p. 1889; Gaz. vol. 143; p. 316.  
 Edeline, R., *et al.* (See Levey, T. J., assignor.)  
 Eden, H. W., Detroit, Mich. Electric signal-bell. No. 908,848; Jan. 5; Sp. p. 866; Gaz. vol. 138; p. 137.  
 Eden, H. W., assignor to P. R. Manufacturing Company, Detroit, Mich. Electric signal-bell. No. 916,284; Mar. 23; Sp. p. 5327; Gaz. vol. 140; p. 944.  
 Eden, H. W., assignor to P. R. Manufacturing Company, Detroit, Mich. Signal-bell. No. 934,396; Sept. 14; Sp. p. 2875; Gaz. vol. 146; p. 450.  
 Eden, H. W., assignor to P. R. Manufacturing Company, Detroit, Mich. Protecting-box for electric wiring. No. 938,373; Oct. 26; Sp. p. 5829; Gaz. vol. 147; p. 990.  
 Eden, J. A., Jr., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Machine for drilling stay-bolts and similar work. No. 917,269; Apr. 6; Sp. p. 641; Gaz. vol. 141; p. 109.  
 Eden, J. A., Jr., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Machine for making stay-bolts and the like. No. 927,514; July 13; Sp. p. 1670; Gaz. vol. 144; p. 293.  
 Edens, J., assignor to H. F. Brammer Manufacturing Company, Davenport, Iowa. Operating mechanism for washing-machines. No. 933,895; Sept. 14; Sp. p. 1901; Gaz. vol. 146; p. 314.  
 Edey, A. S., *et al.* (See Edey, C. E. C., assignor.)  
 Edey, C. E. C., assignor of one-fourth to A. S. Edey and one-fourth to D. F. Edey, Tacoma, Wash. Burglar-alarm. No. 909,851; Jan. 12; Sp. p. 2843; Gaz. vol. 138; p. 501.  
 Edey, D. F., *et al.* (See Edey, C. E. C., assignor.)  
 Edgar, A. C., assignor, by mesne assignments, to Abram Cox Stove Company, Philadelphia, Pa. Radiator. No. 917,423; Apr. 6; Sp. p. 932; Gaz. vol. 141; p. 162.  
 Edgar, E. F., Woodbridge, N. J. Steam-boiler. No. 934,718; Sept. 21; Sp. p. 3513; Gaz. vol. 146; p. 611.  
 Edgar, E. F., Woodbridge, N. J. Steam-engine. No. 935,194; Sept. 28; Sp. p. 4467; Gaz. vol. 146; p. 794.  
 Edgar, E. F., Woodbridge, N. J. Steam-turbine. No. 943,922; Dec. 21; Sp. p. 4069; Gaz. vol. 149; p. 705.  
 Edgar, E. F., Woodbridge, N. J. Steam-boiler. No. 944,669; Dec. 28; Sp. p. 5682; Gaz. vol. 149; p. 986.  
 Edgar, J., (See Mayson and Edgar.)  
 Edgar, J., Hyde Park, Mass., assignor to Becker-Brainard Milling Machine Company, Portland, Me. Milling-machine. No. 937,057; Oct. 19; Sp. p. 3026; Gaz. vol. 147; p. 531.  
 Edgar, R. A., Iola, Kans. Seal. No. 933,700; Sept. 7; Sp. p. 1507; Gaz. vol. 146; p. 227.  
 Edgerton, G. M., assignor to George M. Edgerton Co., Inc., Boston, Mass. Suspenders. No. 939,898; Nov. 9; Sp. p. 3181; Gaz. vol. 148; p. 525.  
 Edge Moor Iron Company. (See Coppage, B. D., assignor.)  
 Edgerton, E. E., Chicago, Ill. Electric-lamp cleaner. No. 925,084; June 15; Sp. p. 4250; Gaz. vol. 143; p. 723.  
 Edinger, C. J., St. Petersburg, assignor of one-fourth to L. Shane and one-fourth to L. Shane, Leechburg, Pa. Culinary utensil. No. 915,574; Mar. 16; Sp. p. 3955; Gaz. vol. 140; p. 683.  
 Edison Manufacturing Company. (See Aiken, E. L., assignor.)  
 Edison Manufacturing Company. (See Dyer and Holden, assignors.)  
 Edison Portland Cement Company. (See Edison, T. A., assignor.)  
 Edison Storage Battery Company. (See Aylsworth, J. W., assignor.)  
 Edison Storage Battery Company. (See Edison, T. A., assignor.)  
 Edison, T. A., Llewellyn Park, Orange, N. J. Telegraphy. No. 909,877; Jan. 19; Sp. p. 2912; Gaz. vol. 138; p. 542.  
 Edison, T. A., Llewellyn Park, Orange, N. J. Shaft-coupling. No. 923,633; June 1; Sp. p. 1162; Gaz. vol. 143; p. 178.  
 Edison, T. A., Llewellyn Park, Orange, N. J. Apparatus for burning Portland cement. No. 930,946; Aug. 10; Sp. p. 2733; Gaz. vol. 145; p. 466.  
 Edison, T. A., Llewellyn Park, Orange, N. J. Apparatus for burning Portland cement. No. 930,948; Aug. 10; Sp. p. 2742; Gaz. vol. 145; p. 467.  
 Edison, T. A., Llewellyn Park, Orange, N. J. Apparatus for burning Portland cement. No. 930,949; Aug. 10; Sp. p. 2747; Gaz. vol. 145; p. 467.  
 Edison, T. A., Llewellyn Park, Orange, N. J. Cement-kiln. No. 939,817; Nov. 9; Sp. p. 3016; Gaz. vol. 148; p. 497.  
 Edison, T. A., Llewellyn Park, Orange, N. J. Phonographic recording and reproducing machine. No. 939,992; Nov. 16; Sp. p. 3405; Gaz. vol. 148; p. 586.  
 Edison, T. A., Llewellyn Park, Orange, N. J. Horn for talking-machines. No. 943,663; Dec. 21; Sp. p. 3537; Gaz. vol. 149; p. 616.  
 Edison, T. A., Llewellyn Park, Orange, assignor to North Jersey Paint Company, Stewartville, N. J. Waterproofing-paint for Portland-cement buildings. No. 909,167; Jan. 12; Sp. p. 1524; Gaz. vol. 138; p. 276.  
 Edison, T. A., Llewellyn Park, Orange, assignor to North Jersey Paint Company, Stewartville, N. J. Waterproofing fibers and fabrics. No. 909,168; Jan. 12; Sp. p. 1525; Gaz. vol. 138; p. 276.  
 Edison, T. A., Llewellyn Park, Orange, assignor to North Jersey Paint Company, Stewartville, N. J. Waterproofing-paint for Portland-cement structures. No. 909,169; Jan. 12; Sp. p. 1526; Gaz. vol. 138; p. 276.  
 Edison, T. A., Llewellyn Park, Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Storage battery. No. 914,342; Mar. 2; Sp. p. 1452; Gaz. vol. 140; p. 226.  
 Edison, T. A., Llewellyn Park, Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Making storage-battery electrodes. No. 914,343; Mar. 2; Sp. p. 1454; Gaz. vol. 140; p. 227.  
 Edison, T. A., Llewellyn Park, Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Making thin metallic flakes. No. 914,372; Mar. 2; Sp. p. 1536; Gaz. vol. 140; p. 237.  
 Edison, T. A., Llewellyn Park, West Orange, N. J., assignor to Edison Portland Cement Company, Stewartville, N. J. Gas-purifier. No. 930,947; Aug. 10; Sp. p. 2738; Gaz. vol. 145; p. 466.  
 Edison, T. A., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Feed mechanism for phonographs and other machines. No. 936,267; Oct. 5; Sp. p. 1370; Gaz. vol. 147; p. 211.  
 Edison, T. A., Llewellyn Park, Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Tube filling and tamping machine. No. 936,433; Oct. 12; Sp. p. 1769; Gaz. vol. 147; p. 294.  
 Edison, T. A., Llewellyn Park, Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Making metallic films or flakes. No. 936,525; Oct. 12; Sp. p. 1961; Gaz. vol. 147; p. 323.  
 Edison, T. A., Llewellyn Park, Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Electrode element for storage batteries. No. 940,635; Nov. 16; Sp. p. 4350; Gaz. vol. 148; p. 807.  
 Edison, T. A., Llewellyn Park, Orange, assignor to Edison Portland Cement Company, Stewartville, N. J. Process and apparatus for artificially aging or seasoning Portland cement. No. 941,630; Nov. 30; Sp. p. 6998; Gaz. vol. 148; p. 1184.  
 Edison, T. A., Llewellyn Park, assignor to New Jersey Patent Company, Orange, N. J. Sound-recording apparatus. No. 943,664; Dec. 21; Sp. p. 3538; Gaz. vol. 149; p. 616.  
 Edison, T. A., Llewellyn Park, Orange, assignor to Edison Portland Cement Company, Stewartville, N. J. Process and apparatus for artificially aging or seasoning Portland cement. No. 944,481; Dec. 28; Sp. p. 5256; Gaz. vol. 149; p. 920.  
 Edler, O., Hanover, Germany. Seal-lock. No. 935,195; Sept. 28; Sp. p. 4468; Gaz. vol. 146; p. 795.  
 Edlund, C. A., deceased; H. Edlund, Providence, R. I., administratrix; J. Doran, administrator de bonis non, assignor of one-half to E. Bernstrom, Providence, R. I. Surfacing-machine. No. 915,752; Mar. 23; Sp. p. 4347; Gaz. vol. 140; p. 773.  
 Edlund, C. A., deceased; H. Edlund, Providence, R. I., administratrix; J. Doran, administrator de bonis non, assignor of one-half to E. Bernstrom, Providence, R. I. Automatic feed-regulating float for centrifugal separators. No. 916,393; Mar. 23; Sp. p. 5553; Gaz. vol. 140; p. 984.  
 Edlund, C. F., Brockton, Mass. Milk-bottle top. No. 933,636; Sept. 7; Sp. p. 1374; Gaz. vol. 146; p. 205.  
 Edlund, H., administratrix. (See Edlund, C. A.)  
 Edman, J., Minneapolis, Minn. Mail-bag crane. No. 933,896; Sept. 14; Sp. p. 1903; Gaz. vol. 146; p. 314.  
 Edman, J., assignor of two-thirds to A. M. Hovland and one-third to O. N. Nelson, Minneapolis, Minn. Resilient wheel. No. 932,976; Aug. 31; Sp. p. 7041; Gaz. vol. 145; p. 1210.  
 Edman, J., assignor of one-half to M. L. Hundebly, Minneapolis, Minn. Device for cleaning the outside of windows. No. 940,135; Nov. 16; Sp. p. 3743; Gaz. vol. 148; p. 638.



*Alphabetical list of patentees—Continued.*

- Edmunds, A. B., Milford, assignor to W. F. Draper, Hopedale, Mass. Loom-shuttle. No. 926,692; June 29; Sp. p. 7469; Gaz. vol. 143; p. 1316.
- Edmiston, S. J., Greenwich, N. Y. Insulator-pin. No. 910,799; Jan. 26; Sp. p. 4856; Gaz. vol. 138; p. 877.
- Edmiston, S. J., Greenwich, N. Y. Guy-wire clamp. No. 944,850; Dec. 28; Sp. p. 6090; Gaz. vol. 149; p. 1047.
- Edmiston, S. W., Hillsboro, Ohio. Pumping apparatus. No. 910,800; Jan. 26; Sp. p. 4858; Gaz. vol. 138; p. 877.
- Edmonds, C. N., assignor of one-half to E. H. Steinman, Mount Pleasant, Pa. Glass-making machine. No. 910,120; Jan. 19; Sp. p. 3385; Gaz. vol. 138; p. 622.
- Edmonds, D. S., New York, N. Y., assignor, by mesne assignments, to Hawthorne & Sheble Manufacturing Company, Philadelphia, Pa. Talking-machine. No. 915,022; Mar. 9; Sp. p. 2809; Gaz. vol. 140; p. 475.
- Edmonds, F. M., assignor to Gillette Safety Razor Company, Boston, Mass. Safety-razor. No. 944,989; Dec. 28; Sp. p. 6362; Gaz. vol. 149; p. 1092.
- Edmonds, J. H., Los Angeles, Cal. Folding wall-bed. No. 910,996; Jan. 26; Sp. p. 5214; Gaz. vol. 138; p. 940.
- Edmonds, J. H., Los Angeles, Cal. Wall-bed. No. 916,923; Mar. 30; Sp. p. 6594; Gaz. vol. 140; p. 1175.
- Edmonds, J. H., Los Angeles, Cal. Folding bed. No. 941,982; Nov. 30; Sp. p. 7745; Gaz. vol. 148; p. 1305.
- Edmonds, J. H., Los Angeles, Cal. Safety-headboard for folding beds. No. 943,594; Dec. 14; Sp. p. 3328; Gaz. vol. 149; p. 561.
- Edmonds, J. H., Los Angeles, Cal. Living-apartment. No. 944,021; Dec. 21; Sp. p. 4285; Gaz. vol. 149; p. 738.
- Edmondson, D. C., Evansville, Ind. Roller-support for sliding doors. No. 911,554; Feb. 2; Sp. p. 1018; Gaz. vol. 139; p. 176.
- Edmondson, J., Blossburg, Ala. Folding umbrella. No. 938,833; Nov. 2; Sp. p. 828; Gaz. vol. 148; p. 133.
- Edmondson, R., Mount Vernon, Ohio. Mixing-machine. No. 922,112; May 18; Sp. p. 4151; Gaz. vol. 142; p. 726.
- Edmunds, H. L., administrator. (See Edmunds, M. L. R.)
- Edmunds, L. E., Philadelphia, Pa. Clasp for pilings. No. 928,641; July 20; Sp. p. 4044; Gaz. vol. 144; p. 704.
- Edmunds, L. E., Philadelphia, Pa. Funnel. No. 930,165; Aug. 3; Sp. p. 1144; Gaz. vol. 145; p. 186.
- Edmunds, L. E., Philadelphia, Pa. Funnel. No. 943,400; Dec. 14; Sp. p. 2932; Gaz. vol. 149; p. 494.
- Edmunds, M. L. R., deceased; H. L. Edmunds, administrator, The Dalles, Oreg. Packing appliance for crates and the like. No. 936,239; Oct. 5; Sp. p. 1315; Gaz. vol. 147; p. 202.
- Edner, H., Dubois, Pa. Strainer for milk-cans. No. 921,525; May 11; Sp. p. 2939; Gaz. vol. 142; p. 505.
- Edney, W. T., Franklin, assignor of one-half to C. L. Hutchins, Suffolk, Va. Stake-holder for logging and platform cars. No. 911,555; Feb. 2; Sp. p. 1020; Gaz. vol. 139; p. 176.
- Edsall, W. H., Wallingford, Conn. Curtain-ring. No. 944,721; Dec. 28; Sp. p. 5800; Gaz. vol. 149; p. 1003.
- Edsall, W. H., assignor to H. L. Judd Company, Wallingford, Conn. Traverse-ring. No. 944,720; Dec. 28; Sp. p. 5799; Gaz. vol. 149; p. 1002.
- Edson, F. C., Le Roy, N. Y. Folding crate. No. 939,484; Nov. 9; Sp. p. 2307; Gaz. vol. 148; p. 382.
- Edbauer, F., Chicago, Ill. Automatic weighing-machine. No. 943,012; Dec. 14; Sp. p. 2121; Gaz. vol. 149; p. 363.
- Edward Manogue Co. (See Lewis, G. A., assignor.)
- Edward J. Brandt-Dent Company. (See Brandt, E. J., assignor.)
- Edward Miller & Company. (See Williams, F. T., assignor.)
- Edwards, A., Pueblo, Colo. Wire-gate fastener. No. 919,705; Apr. 27; Sp. p. 5893; Gaz. vol. 141; p. 1011.
- Edwards, A. H., London, England. Apparatus for transmitting power. No. 929,573; July 27; Sp. p. 5914; Gaz. vol. 144; p. 1039.
- Edwards, A. L., assignor to Wheeling Stamping Company, Wheeling, W. Va. Glass-cone burner. No. 914,249; Mar. 2; Sp. p. 1274; Gaz. vol. 140; p. 198.
- Edwards, B. A. (See Mellen and Edwards.)
- Edwards, C. E., assignor to Edwards Wave Motor Co., San Diego, Cal. Wave-motor. No. 923,823; June 8; Sp. p. 1643; Gaz. vol. 143; p. 272.
- Edwards & Company. (See Lungen, A., assignor.)
- Edwards, D. H., Chicago, Ill. Ink and mucilage stand. No. 944,181; Dec. 21; Sp. p. 4610; Gaz. vol. 149; p. 791.
- Edwards, E., Rea, Mo. Wire-stretcher. No. 920,039; Apr. 27; Sp. p. 6593; Gaz. vol. 141; p. 1121.
- Edwards, E. E., Falfurrias, Tex. Pan-lifter. No. 933,963; Sept. 14; Sp. p. 2039; Gaz. vol. 146; p. 336.
- Edwards, E. F., Chicago, Ill. Saw-filing device. No. 934,510; Sept. 21; Sp. p. 3099; Gaz. vol. 146; p. 540.
- Edwards, G. B., Mendota, Ill. Flue-stopper. No. 934,719; Sept. 21; Sp. p. 3515; Gaz. vol. 146; p. 612.
- Edwards, G. S., Enid, assignor of one-half to J. M. Edwards, Osceola, Pa. Automatic printing-frame. No. 926,553; June 29; Sp. p. 7188; Gaz. vol. 143; p. 1271.
- Edwards, G. W., Menasha, Wis. Lubricator for steam machinery. No. 922,113; May 18; Sp. p. 4153; Gaz. vol. 142; p. 726.
- Edwards, G. W. L., Philadelphia, Pa. Game apparatus. No. 912,547; Feb. 16; Sp. p. 3159; Gaz. vol. 139; p. 566.
- Edwards, H., and M. F. Sadler, Troup, Tex. Wire-stretching machine. No. 915,753; Mar. 23; Sp. p. 4350; Gaz. vol. 140; p. 773.
- Edwards, I. L., assignor of four-fifths to M. D. Jones and F. M. Price, Aurora, Ill. Combined tie-plate and brace. No. 920,842; May 4; Sp. p. 1514; Gaz. vol. 142; p. 245.
- Edwards, J. B., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Telephone-transmitter. No. 909,566; Jan. 12; Sp. p. 2291; Gaz. vol. 138; p. 406.
- Edwards, J. B., assignor to A. Rowland, Columbia, S. C. Signaling system. No. 917,270; Apr. 6; Sp. p. 644; Gaz. vol. 141; p. 109.
- Edwards, J. C., Brookline, assignor to Draper Company, Hopedale, Mass. Means for holding and delivering ring-travelers. No. 931,690; Aug. 17; Sp. p. 4359; Gaz. vol. 145; p. 740.
- Edwards, J. M. (See Edwards, G. S., assignor.)
- Edwards, O. M. (See Chaffee, E. F., assignor.)
- Edwards, O. M., Syracuse, N. Y. Window and sash holding device. No. 915,754; Mar. 23; Sp. p. 4353; Gaz. vol. 140; p. 774.
- Edwards, O. M., Syracuse, N. Y. Trap-door for railway-cars and similar structures. No. 942,719; Dec. 7; Sp. p. 1421; Gaz. vol. 149; p. 233.
- Edwards, O. M., Syracuse, N. Y. Sash-holding device. No. 942,720; Dec. 7; Sp. p. 1428; Gaz. vol. 149; p. 233.
- Edwards, R. J., Galena, Ill. Derailment-guard for railway-cars. No. 943,665; Dec. 21; Sp. p. 3540; Gaz. vol. 149; p. 616.
- Edwards, R. J., Galena, Ill. Car-truck. No. 943,666; Dec. 21; Sp. p. 3542; Gaz. vol. 149; p. 617.
- Edwards, R. L., Jr., Hopatcong borough, N. J., assignor to Hygienic Soap Granulator Company. Soap-granulator. No. 936,101; Oct. 5; Sp. p. 1056; Gaz. vol. 147; p. 161.
- Edwards, R. W., Williamsport, Pa. Egg-beater. No. 930,364; Aug. 10; Sp. p. 1503; Gaz. vol. 145; p. 273.
- Edwards, W. A., Pine Bluff, Ark. Dinner-pail. No. 941,915; Nov. 30; Sp. p. 7621; Gaz. vol. 148; p. 1283.
- Edwards, W. H., Terre Haute, Ind. Door-opener. No. 919,141; Apr. 20; Sp. p. 4508; Gaz. vol. 141; p. 787.
- Edwards, W. H., Gumberry, N. C. Umbrella. No. 937,583; Oct. 19; Sp. p. 4152; Gaz. vol. 147; p. 706.
- Edwards, W. N., Providence, R. I. Braiding-machine. No. 917,424; Apr. 6; Sp. p. 934; Gaz. vol. 141; p. 162.
- Edwards, W. N., Providence, R. I. Movable racer of braiding-machines. No. 926,106; June 29; Sp. p. 6323; Gaz. vol. 143; p. 1122.
- Edwards Wave Motor Co. (See Edwards, C. E., assignor.)
- Edwin B. Stimpson Company. (See Grossman, S., assignor.)
- Edwin B. Stimpson Company. (See Stimpson, E. B., assignor.)
- Edwins, D. B., Aberdeen, S. D. Pipe-wrench. No. 922,866; May 25; Sp. p. 5711; Gaz. vol. 142; p. 1000.
- Bells, A. F., Boston, Mass., assignor of one-eighth to W. J. Barnett, U. S. Navy, Washington, D. C. Railroad automatic danger and safety signal system. No. 914,482; Mar. 9; Sp. p. 1743; Gaz. vol. 140; p. 299.
- Bells, I. E., and E. N. McKelvey, East Liverpool, Ohio. Curtain-pole support. No. 940,711; Nov. 23; Sp. p. 5026; Gaz. vol. 148; p. 858.
- Bells, M. H., and E. E. Anderson, Centropolis, Kans. Tie and rail-fastener. No. 913,368; Feb. 23; Sp. p. 4834; Gaz. vol. 139; p. 866.
- Effenberg, L., Agram, Austria-Hungary. Automatic door-opening apparatus. No. 935,475; Sept. 28; Sp. p. 5013; Gaz. vol. 146; p. 886.
- Effland, M., Galesburg, Ill. Gate. No. 927,779; July 13; Sp. p. 2233; Gaz. vol. 144; p. 387.
- Egan, J. J. (See Tierney, H. A., assignor.)
- Egan, J. J., New York, N. Y. Massage device. No. 923,158; June 1; Sp. p. 83; Gaz. vol. 143; p. 14.
- Eganhouse, J. G., Houston, Tex. Bust-developer. No. 936,434; Oct. 12; Sp. p. 1773; Gaz. vol. 147; p. 294.
- Ege, A. H., Mechanicsburg, Pa. Artificial fuel. No. 913,713; Mar. 2; Sp. p. 76; Gaz. vol. 140; p. 14.
- Egenas, S. L., and J. B. Chapman, Chicago, Ill. Bolt and nut lock. No. 931,187; Aug. 17; Sp. p. 3299; Gaz. vol. 145; p. 574.
- Edge, F., Bridgeport, Conn. Valve for gas-burners. No. 909,878; Jan. 19; Sp. p. 2915; Gaz. vol. 138; p. 542.
- Edge, F., Bridgeport, Conn. Wire chain-link. No. 921,380; May 11; Sp. p. 2658; Gaz. vol. 142; p. 457.
- Edge, F., Bridgeport, Conn., assignor to Hygienic Soap Granulator Company. Device for shaving soap. No. 916,125; Mar. 23; Sp. p. 5039; Gaz. vol. 140; p. 893.
- Eggenhofer, A., Zanesville, Ohio. Cuspidor. No. 925,998; June 22; Sp. p. 6082; Gaz. vol. 143; p. 1052.
- Eggers, A. C., New York, N. Y. Tiled floor or wall. No. 910,801; Jan. 26; Sp. p. 4860; Gaz. vol. 138; p. 878.
- Eggleston, D. W., Terryville, Conn. Catch-lock for trunks or the like. No. 918,300; Apr. 13; Sp. p. 2719; Gaz. vol. 141; p. 482.
- Eggleston, L. W., Appleton, Wis. Valve. No. 918,301; Apr. 13; Sp. p. 2720; Gaz. vol. 141; p. 482.
- Eghan, S. G., Ogden, Utah. Collar-fastener. No. 922,682; May 25; Sp. p. 5318; Gaz. vol. 142; p. 940.
- Eglin, W. C. L., et al. (See MacFarland, A. M., assignor.)
- Egly, A., Geneva, Ind. Fence-post. No. 920,935; May 11; Sp. p. 1727; Gaz. vol. 142; p. 305.

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- Egnér, C. E., Stockholm, and J. G. Holmström, Saltsjö-Storängen, Sweden. Microphone. No. 935,897; Oct. 5; Sp. p. 638; Gaz. vol. 147; p. 92.
- Egnér, C. E., Stockholm, and J. G. Holmström, Saltsjö-Storängen, Sweden. Telephone-transmitter. No. 938,992; Nov. 2; Sp. p. 1175; Gaz. vol. 148; p. 187.
- Egner, H. (See Ludwig, A. L., assignor.)
- Eha, F. (See Hanneke and Eha.)
- Ehbets, C. J., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Safety device for firearms. No. 917,723; Apr. 6; Sp. p. 1479; Gaz. vol. 141; p. 259.
- Ehebal, A., New York, N. Y. Pipe connection for gas-meters. No. 914,250; Mar. 2; Sp. p. 1274; Gaz. vol. 140; p. 198.
- Ehemann, G. F., Chicago, Ill. Combined sash and door check. No. 943,401; Dec. 14; Sp. p. 2933; Gaz. vol. 149; p. 494.
- Ehlers, R. J. (See Gundelach, E., assignor.)
- Ehlin, J., Chicago, Ill. Gearing. No. 931,850; Aug. 24; Sp. p. 4706; Gaz. vol. 145; p. 815.
- Ehman, H., St. Louis, Mo. Track construction. No. 941,674; Nov. 30; Sp. p. 7090; Gaz. vol. 148; p. 1198.
- Ehmson, C. F., Hamburg, assignor to G. Stecher, Grünsfeld, Baden, Germany. Type-writing machine. No. 936,240; Oct. 5; Sp. p. 1316; Gaz. vol. 147; p. 202.
- Ehretzman, F., Chicago, Ill. Train-indicator. No. 925,164; June 15; Sp. p. 4403; Gaz. vol. 143; p. 752.
- Ehrhart, R. N., Pittsburg, Pa., assignor to Westinghouse Machine Company. Fluid translation device. No. 927,515; July 13; Sp. p. 1674; Gaz. vol. 144; p. 299.
- Ehrhart, R. N., Pittsburg, Pa., assignor to Westinghouse Machine Company. Governing mechanism for elastic-fluid turbines. No. 934,432; Sept. 21; Sp. p. 2954; Gaz. vol. 146; p. 515.
- Ehrhart, R. N., Pittsburg, Pa., assignor to Westinghouse Machine Company. Elastic-fluid turbine. No. 941,409; Nov. 30; Sp. p. 6561; Gaz. vol. 148; p. 1112.
- Ehrich, E. H. (See Martin, W. A., assignor.)
- Ehrlich, J. M., *et al.* (See Magui, A., assignor.)
- Ehrlich, L. (See Aronson, S., assignor.)
- Ehrlich, L., assignor to United States Mail Chute Equipment Company, St. Louis, Mo. Mail-chute. No. 913,111; Feb. 23; Sp. p. 4301; Gaz. vol. 139; p. 779.
- Ehrlich, L., assignor to United States Mail Chute Equipment Company, St. Louis, Mo. Mail-chute. No. 913,112; Feb. 23; Sp. p. 4307; Gaz. vol. 139; p. 780.
- Ehrlich, L., assignor to United States Mail Chute Equipment Company, St. Louis, Mo. Mail-chute. No. 913,113; Feb. 23; Sp. p. 4309; Gaz. vol. 139; p. 780.
- Ehrlich, L., assignor to United States Mail Chute Equipment Company, St. Louis, Mo. Mail-chute. No. 913,114; Feb. 23; Sp. p. 4313; Gaz. vol. 139; p. 780.
- Ehrlich, L., St. Louis, Mo., assignor to American Register Company. Fare-register. No. 922,867; May 25; Sp. p. 5713; Gaz. vol. 142; p. 1000.
- Ehrlich, L., St. Louis, Mo., assignor to American Register Company. Fare-register. No. 922,868; May 25; Sp. p. 5731; Gaz. vol. 142; p. 1000.
- Ehrlich, L., assignor to U. S. Mail Chute Equipment Company, St. Louis, Mo. Mail-chute. No. 933,416; Oct. 26; Sp. p. 5927; Gaz. vol. 147; p. 1005.
- Ehrlich, P., and A. Berthelm, Frankfurt-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Arsenophenol. No. 909,380; Jan. 12; Sp. p. 1223; Gaz. vol. 138; p. 343.
- Ehrlich, P., and A. Berthelm, Frankfurt-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Derivative of aminoarylarsinic acid. No. 937,928; Oct. 26; Sp. p. 4860; Gaz. vol. 147; p. 839.
- Ehrmann, K. E., Bajong Lentjir, Sunatra. Apparatus for pumping oil from petroleum-wells. No. 919,142; Apr. 20; Sp. p. 4510; Gaz. vol. 141; p. 788.
- Eibel, F. G., Lancaster, Pa. Switch-operating mechanism for cars. No. 940,136; Nov. 16; Sp. p. 3744; Gaz. vol. 148; p. 638.
- Eiben, A., and A. Gyuroso, Cleveland, Ohio. Seat for sewing-machines. No. 918,024; Apr. 13; Sp. p. 2171; Gaz. vol. 141; p. 389.
- Eichbaum, H. W., Venice, Cal. Electrical-circuit controller. No. 916,958; Mar. 30; Sp. p. 6667; Gaz. vol. 140; p. 1188.
- Eichbaum, H. W., Los Angeles, Cal., assignor to one-half J. Beckman, Rhyolite, Nev. Trolley-pole attachment. No. 908,981; Jan. 5; Sp. p. 1142; Gaz. vol. 138; p. 181.
- Eichberg, F., Berlin, Germany, assignor to General Electric Company. Single-phase motor. No. 920,040; Apr. 27; Sp. p. 6594; Gaz. vol. 141; p. 1122.
- Eichberg, F., Berlin, Germany, assignor to General Electric Company. Alternating-current-motor control. No. 920,843; May 4; Sp. p. 1515; Gaz. vol. 142; p. 245.
- Eichberg, F., Berlin, Germany, assignor to General Electric Company. Alternating-current motor. No. 936,615; Oct. 12; Sp. p. 2147; Gaz. vol. 147; p. 355.
- Eichelkraut, W., Zehlendorf, Germany. Arrangement for receiving bakers' goods, milk, postal packages, newspapers, and the like. No. 931,285; Aug. 17; Sp. p. 3532; Gaz. vol. 145; p. 609.
- Eichelman, W. F., Oak Park, Ill. Portable wardrobe. No. 930,367; Aug. 10; Sp. p. 1507; Gaz. vol. 145; p. 274.
- Eichenfels, E. H., assignor, by mesne assignments, to H. J. Nice Company, Minneapolis, Minn. Toy flying-machine. No. 911,538; Feb. 2; Sp. p. 978; Gaz. vol. 139; p. 171.
- Eichenlaub, J. F., Columbus, Ohio. Trap and outlet construction for bath-tubs. No. 908,651; Jan. 5; Sp. p. 481; Gaz. vol. 138; p. 75.
- Eichenlaub, J. F., Columbus, Ohio. Waste and overflow connection for bath-tubs. No. 909,170; Jan. 12; Sp. p. 1527; Gaz. vol. 138; p. 276.
- Eichholtz, C. S., Los Angeles, Cal. Vaginal syringe. No. 937,292; Oct. 19; Sp. p. 3523; Gaz. vol. 147; p. 609.
- Eichholtz, W. B., New Orleans, La. Car-seal. No. 935,898; Oct. 5; Sp. p. 639; Gaz. vol. 147; p. 93.
- Eichhorn, A. and J., Philadelphia, Pa. Display-box. No. 939,234; Nov. 9; Sp. p. 1708; Gaz. vol. 148; p. 296.
- Eichhorn, J. (See Eichhorn A. and J.)
- Eichler, A., assignor to himself, J. Hoffman, and M. Eichler, Dixon, Ill. Ash-receptacle. No. 909,070; Jan. 5; Sp. p. 1305; Gaz. vol. 138; p. 209.
- Eichler, H., New York, N. Y. Combined pencil-sharpener and cigar-cutter. No. 921,964; May 18; Sp. p. 3863; Gaz. vol. 142; p. 676.
- Eichler, M., *et al.* (See Eichler, A., assignor.)
- Eichorn, H. A., Boston, Mass. Hemstitching device. No. 915,945; Mar. 23; Sp. p. 4695; Gaz. vol. 140; p. 834.
- Eichorn, H. A., assignor to H. J. Miller, Boston, Mass. Hemstitcher-disk. No. 919,706; Apr. 27; Sp. p. 5894; Gaz. vol. 141; p. 1012.
- Eick, O., Baltimore, Md. Bottle-cleaning machine. No. 927,646; July 13; Sp. p. 1958; Gaz. vol. 144; p. 343.
- Eickhoff, E., Halle-on-the-Saale, Germany. Rotary pump or blower. No. 928,034; July 13; Sp. p. 2766; Gaz. vol. 144; p. 472.
- Eidam, M. J., Chicago, Ill. Sewing-machine attachment. No. 916,126; Mar. 23; Sp. p. 5040; Gaz. vol. 140; p. 893.
- Eidam, M. J., Chicago, Ill. Sewing-machine attachment. No. 923,824; June 8; Sp. p. 1645; Gaz. vol. 143; p. 272.
- Eidsmoe, C. A., Beresford, S. D. Gate. No. 918,981; Apr. 20; Sp. p. 4217; Gaz. vol. 141; p. 737.
- Eidson, T. H., Elkin, N. C. Canning apparatus. No. 939,485; Nov. 9; Sp. p. 2309; Gaz. vol. 148; p. 382.
- Eigen, B. vom, Newark, N. J., assignor to Aug. Goertz & Co. Lock for purse or bag frames. No. 911,386; Feb. 2; Sp. p. 705; Gaz. vol. 139; p. 121.
- Eigen, B. vom, Newark, N. J., assignor to Aug. Goertz & Co. Coin-repository. No. 913,629; Feb. 23; Sp. p. 5404; Gaz. vol. 139; p. 953.
- Eigen, B. vom, Newark, N. J., assignor to Aug. Goertz & Co. Coin-repository. No. 913,630; Feb. 23; Sp. p. 5412; Gaz. vol. 139; p. 954.
- Eigen, B. vom, Newark, N. J., assignor to Aug. Goertz & Co. Bag-frame fastener. No. 930,594; Aug. 10; Sp. p. 1998; Gaz. vol. 145; p. 350.
- Eigenmann, F. A., Newark, Ohio. Vehicle-brake. No. 944,603; Dec. 28; Sp. p. 5558; Gaz. vol. 149; p. 964.
- Eikenberry, H. (See Ullom, A., assignor.)
- Elart, F. W., McKeesport, Pa. Wrench. No. 934,899; Sept. 21; Sp. p. 3862; Gaz. vol. 146; p. 670.
- Elierman, B. F., and C. D. Grimes, Dayton, Ohio, and T. Major, Frankfort, Ind.: said Elierman and Grimes assignors to said Major. Voting-machine. No. 922,683; May 25; Sp. p. 5319; Gaz. vol. 142; p. 940.
- Eilers, B. D., Utica, N. Y. Take-down pocket-knife. No. 929,295; July 27; Sp. p. 5396; Gaz. vol. 144; p. 949.
- Eilers, L. H., Chicago, Ill. Game-table. No. 921,381; May 11; Sp. p. 2659; Gaz. vol. 142; p. 457.
- Elmer, C. A., Los Gatos, Cal. Switching device for electric lamps. No. 922,406; May 13; Sp. p. 4741; Gaz. vol. 142; p. 822.
- Embigler, R., New York, N. Y. Visual-signal apparatus. No. 940,444; Nov. 16; Sp. p. 4453; Gaz. vol. 148; p. 744.
- Einert, C. A. (See Alter and Einert.)
- Einfield, E., assignor, by mesne assignments, to G. W. and N. French and J. L. Hecht, Davenport, Iowa. Automatic reversing mechanism. No. 944,604; Dec. 28; Sp. p. 5560; Gaz. vol. 149; p. 964.
- Einhorn, A., Munich, assignor to Firm of C. H. Boehringer Sohn, Nieder Ingelheim, Germany. Guaiacol carbonate sulfo-acid derivative. No. 938,132; Oct. 26; Sp. p. 5300; Gaz. vol. 147; p. 906.
- Einicke, O., New York, N. Y. Musical toy. No. 931,286; Aug. 17; Sp. p. 3533; Gaz. vol. 145; p. 610.
- Einstein, A. C., assignor of one-ninth to A. R. Jones, one-ninth to H. W. Jones, and one-ninth to R. B. Jones, Independence, Kans. Supply-valve for water-closets. No. 913,479; Feb. 23; Sp. p. 5948; Gaz. vol. 139; p. 902.
- Eirich, G., Hardheim, Germany. Chasing-mill working in looped paths. No. 931,585; Aug. 17; Sp. p. 4108; Gaz. vol. 145; p. 707.
- Eisele, F. F. (See McIntyre, J. J., assignor.)
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 Eisemann, E., New York, N. Y. Washing-machine. (Reissue.) No. 12,976; June 15; Sp. p. 4928; Gaz. vol. 143; p. 842.  
 Eisen, T. A., Los Angeles, Cal. Construction of buildings. No. 915,421; Mar. 16; Sp. p. 3635; Gaz. vol. 140; p. 633.  
 Eisenberg, A., St. Petersburg, Russia. Production of kvass. No. 938,374; Oct. 26; Sp. p. 5830; Gaz. vol. 147; p. 990.  
 Eisenbraun E., Tripp, S. D. Attachment for post-hole augers. No. 939,235; Nov. 9; Sp. p. 1709; Gaz. vol. 148; p. 297.  
 Eisenhart, H. W., assignor to A. B. Farquhar Company, Limited, York, Pa. Threshing or separating machine. No. 930,166; Aug. 3; Sp. p. 1145; Gaz. vol. 145; p. 186.  
 Eisenstadt Manufacturing Company. (See Herman, A., assignor.)  
 Eisenstein, S., Kiew, Russia. Hermetically sealing receptacles from which air or gas has been exhausted. No. 911,387; Feb. 2; Sp. p. 712; Gaz. vol. 139; p. 122.  
 Eisenstein, S., Kief, Russia. Apparatus for the production of undamped electrical vibrations. No. 921,526; May 11; Sp. p. 2940; Gaz. vol. 142; p. 505.  
 Eisenstein, S., Kiew, Russia. Aerial conductor. No. 930,746; Aug. 10; Sp. p. 2311; Gaz. vol. 145; p. 401.  
 Eisenstein, S., Kiew, Russia. Receiver for wireless telegraphy and telephony. No. 931,586; Aug. 17; Sp. p. 4109; Gaz. vol. 145; p. 707.  
 Eisenwerk (vorm. Nagel & Kaemp) Aktiengesellschaft. (See Streckel, F., assignor.)  
 Eisig, M., Nuremberg, Germany. Rail-fastening. No. 934,054; Sept. 14; Sp. p. 2198; Gaz. vol. 146; p. 364.  
 Eisle, C., *et al.* (See Brown, E. L., assignor.)  
 Eitel, W. D., assignor of one-half to E. E. Cottle, San Francisco, Cal. Plasterer's miter cornice-mold. No. 915,575; Mar. 16; Sp. p. 3957; Gaz. vol. 140; p. 683.  
 Eittle, C., Stuttgart, Germany. Apparatus for charging retorts. No. 944,959; Dec. 28; Sp. p. 6294; Gaz. vol. 149; p. 1081.  
 Ekedahl, E. A. (See Petersen and Ekedahl.)  
 Eken, A. J., assignor of one-half to W. S. Sample, San Francisco, Cal. Building-clip for tiles. No. 944,022; Dec. 21; Sp. p. 4288; Gaz. vol. 149; p. 738.  
 Ekenberg, B. (See Hartwig, C. H., assignor.)  
 Ekern, M. I. (See Bennett and Ekern.)  
 Eklund, C. A., New York, N. Y. Fountain-pen. No. 929,843; Aug. 3; Sp. p. 476; Gaz. vol. 145; p. 75.  
 Eklund, J., assignor to St. Joseph Iron Works, St. Joseph, Mich. Crate-side machine. No. 920,290; May 4; Sp. p. 429; Gaz. vol. 142; p. 66.  
 Ekman, A., Grand Rapids, Mich. Scraper. No. 917,568; Apr. 6; Sp. p. 1185; Gaz. vol. 141; p. 207.  
 Ekrem, L. O., Strömsneset, near Kristiansund, Norway. Brush. No. 908,652; Jan. 5; Sp. p. 482; Gaz. vol. 138; p. 75.  
 Ekstrom, J. P., Boyne, Mich. Ventilator. No. 911,648; Feb. 9; Sp. p. 1249; Gaz. vol. 139; p. 235.  
 Ekstrom, R. P., Elm Creek, Nebr. Milk-strainer. No. 914,031; Mar. 2; Sp. p. 824; Gaz. vol. 140; p. 126.  
 Ekströmer, E. C., Boston, Mass., assignor to J. C. Kent, trustee. Storage battery. No. 914,646; Mar. 9; Sp. p. 2070; Gaz. vol. 140; p. 352.  
 Ekströmer, E. C., Boston, and M. Ekströmer, Quincy, Mass. Treating albuminoids. No. 926,056; June 22; Sp. p. 6201; Gaz. vol. 143; p. 1071.  
 Ekströmer, E. C. and M., assignors to J. C. Kent, trustee, Boston, Mass. Secondary battery. No. 918,831; Apr. 20; Sp. p. 3892; Gaz. vol. 141; p. 686.  
 Ekströmer, E. C., Boston, and M. Ekströmer, Quincy, assignors to J. C. Kent, trustee, Boston, Mass. Storage battery. No. 918,832; Apr. 20; Sp. p. 3894; Gaz. vol. 141; p. 686.  
 Ekströmer, M. (See Ekströmer, E. C. and M.)  
 El-Kouri, A. S., Duke, Okla. Extension-table. No. 925,427; June 15; Sp. p. 4882; Gaz. vol. 143; p. 834.  
 Elam, C. O. (See Svetnam and Elam.)  
 Elam, W. E., Washington, D. C. Tobacco-pipe. No. 921,527; May 11; Sp. p. 2941; Gaz. vol. 142; p. 505.  
 Elander, E. J., *et al.* (See Rose, C. A., assignor.)  
 Elbert, F. R., Crestline, Ohio. Tile. No. 925,316; June 15; Sp. p. 4681; Gaz. vol. 143; p. 799.  
 Elder, F. C. (See Huss, R. W., assignor.)  
 Elder, J. M., Indianapolis, Ind. Transfer-table. No. 922,114; May 18; Sp. p. 4154; Gaz. vol. 142; p. 726.  
 Elder, W. J., assignor of one-half to B. Elkins, Wilkensburg, Pa. Radiator. No. 940,445; Nov. 16; Sp. p. 4456; Gaz. vol. 148; p. 745.  
 Elderkin, L. L. D., Roxbury, Mass. Winding-indicator for watches. No. 918,132; Apr. 13; Sp. p. 2383; Gaz. vol. 141; p. 427.  
 Eldred, B. E., assignor to Combustion Utilities Company, New York, N. Y. Gas-producer control. No. 908,454; Jan. 5; Sp. p. 42; Gaz. vol. 138; p. 9.  
 Eldred, B. E., Bronxville, assignor to Duplex Metals Company, New York, N. Y. Flexible metallic tubing. No. 925,317; June 15; Sp. p. 4682; Gaz. vol. 143; p. 799.  
 Eldred, B. E., Bronxville, assignor to Eldred & Palmer Company, New York, N. Y. Process of and apparatus for burning cement and like materials. No. 928,512; July 20; Sp. p. 3761; Gaz. vol. 144; p. 661.  
 Eldred, B. E., Bronxville, assignor to Eldred & Palmer Company, New York, N. Y. Process of and apparatus for burning cement. No. 928,513; July 20; Sp. p. 3765; Gaz. vol. 144; p. 661.  
 Eldred, B. E., Bronxville, assignor to Combustion Utilities Company, New York, N. Y. Oxidizing ores. No. 932,689; Aug. 31; Sp. p. 6485; Gaz. vol. 145; p. 1118.  
 Eldred & Palmer Company. (See Eldred, B. E., assignor.)  
 Eldridge, E. B., Allentown, Pa. Splice-bar. No. 923,634; June 1; Sp. p. 1163; Gaz. vol. 143; p. 179.  
 Eldridge, H. (See Rocky and Eldridge.)  
 Eldridge, H. M., Niagara Falls, Ontario, Canada, assignor to Niagara Falls Metal Stamping Works, Niagara Falls, N. Y. Swivel and the like. No. 916,127; Mar. 23; Sp. p. 5042; Gaz. vol. 140; p. 893.  
 Eldridge, J., assignor to Astoria Iron Works, Astoria, Oreg. Can-body forming and soldering machine. No. 925,883; June 22; Sp. p. 5866; Gaz. vol. 143; p. 1014.  
 Electelle Company. (See Smith, I. B., assignor.)  
 Electric Bank Protection Company. (See Juruick, M. F., assignor.)  
 Electric Catalytic Air Company. (See Williams, J. M., assignor.) (Reissue.)  
 Electric Compositor Company. (See Bellows, B. F., assignor.)  
 Electric Compositor Company. (See Reynolds, H. A., assignor.)  
 Electric Controller and Manufacturing Company. (See Fishback, F. R., assignor.)  
 Electric Controller and Manufacturing Company. (See Hall and Schnabel, assignors.)  
 Electric Controller and Manufacturing Company. (See Stratton, H. F., assignor.)  
 Electric Couch Company. (See Davenport, B. R., assignor.)  
 Electric Goods Manufacturing Company. (See Lincoln, E. S., assignor.)  
 Electric Goods Manufacturing Company. (See Smith, A. J., assignor.)  
 Electric Goods Manufacturing Company. (See Thomson, H. C., assignor.)  
 Electric Meat Curing Company. (See Lincoln, J. C., assignor.)  
 Electric Metal Working Company. (See Coffin, C. L., assignor.)  
 Electric Metallurgical Company. (See Seward, G. O., assignor.)  
 Electric Metals Company. (See Snyder, F. T., assignor.)  
 Electric and Ordnance Accessories Company Limited. (See Jacobsen, O. B., assignor.)  
 Electric Railway Improvement Company. (See Cleveland, W. B., assignor.)  
 Electric Railway Improvement Company. (See Herrick, A. B., assignor.)  
 Electric Railway Improvement Company. (See Wherry, W. H., assignor.)  
 Electric-Railway Signal Company. (See Chapman, W. M., assignor.)  
 Electric Renovator Manufacturing Company. (See Noe, A. T., assignor.)  
 Electric Service Supplies Company. (See Ebersole, C. F., assignor.)  
 Electric Service Supplies Company. (See Porter, J. W., assignor.)  
 Electric Service Supplies Company *et al.* (See Woodmansee, F., assignor.)  
 Electric Shoe Polisher Company. (See Brewer, J. A., assignor.)  
 Electric Signagraph and Semaphore Company. (See Webb, J. F., Jr., assignor.)  
 Electric Signagraph and Semaphore Company. (See Webb, J. F. and J. F., Jr., assignors.)  
 Electric Smelting and Aluminum Company. (See Kayser, A., assignor.)  
 Electric Storage Battery Company. (See Beetem, F. G., assignor.)  
 Electric Storage Battery Company. (See Shover, B. R., assignor.)  
 Electric Suction Sweeper Company. (See Spangler, J. M., assignor.)  
 Electric Utility Company. (See Snyder, B. Y., assignor.)  
 Electric Welding Products Company. (See Thompson, C. E., assignor.)  
 Electrical Automatic Railroad Safety Signal Company. (See Lacroix, F., assignor.)  
 Electrical Manufacturing Company. (See Meter and Rideout, assignors.)

*Alphabetical list of patentees—Continued.*

- Electro-Ad Company. (See Phelps, J. W., assignor.)  
 Electro Dental Manufacturing Company. (See Schramm, A. W., assignor.)  
 Electro Dental Manufacturing Company. (See Schramm and Oswald, assignors.)  
 Electro-Magnetic Tool Company. (See Rowe, G. H., assignor.)  
 Electro Metallurgical Company. (See Becket, F. M., assignor.)  
 Electro Metallurgical Company. (See Price, E. F., assignor.)  
 Electro Surgical Company. (See Majlgren, T., assignor.)  
 Electro Surgical Instrument Company. (See Kelp, H. A., assignor.)  
 Electro-Vibrating Couch Company. (See Church, W. A., assignor.)  
 "Elejustr" Limited. (See Trickey and Cain, assignors.)  
 Elers, K. F., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Spring-wheel. No. 917,856; Apr. 13; Sp. p. 1792; Gaz. vol. 141; p. 329.  
 Elevator Supply and Repair Company. (See Fassett, F. K., assignor.)  
 Elevator Supply & Repair Company. (See Osmer, J. E., assignor.)  
 Elfborg, H. G., Chicago, Ill. Railway-frog. No. 940,863; Nov. 23; Sp. p. 5361; Gaz. vol. 148; p. 909.  
 Elfborg, H. G., Chicago, Ill. Railway-frog. No. 940,864; Nov. 23; Sp. p. 5363; Gaz. vol. 148; p. 909.  
 Elfer, N. C., Allemands, La. Log-rafting system. No. 935,476; Sept. 28; Sp. p. 5015; Gaz. vol. 146; p. 886.  
 Elfstrom, P., Hemmington, Minn. Trap. No. 939,818; Nov. 9; Sp. p. 3018; Gaz. vol. 148; p. 497.  
 Eli Lilly & Company. (See Lilly, J. K., assignor.)  
 Elias, J. (See Dowling, G. A., assignor.)  
 Eliason, G. A., Iola, Wis. Record-tablet. No. 942,627; Dec. 7; Sp. p. 1240; Gaz. vol. 149; p. 203.  
 Eliason, J. (See Larson, C. G., assignor.)  
 Eliel, A. L. (See Eliel, O. H. and A. L.)  
 Eliel, A. L., San Francisco, Cal., and O. H. Eliel, La Salle, Ill., assignors of one-third to L. E. Aubury, San Francisco, Cal. Apparatus for elevating gold-bearing deposits from river-beds. No. 910,277; Jan. 19; Sp. p. 3776; Gaz. vol. 138; p. 680.  
 Eliel, O. H. (See Eliel, A. L. and O. H.)  
 Eliel, O. H., La Salle, Ill., and A. L. Eliel, assignors of one-third to L. E. Aubury, San Francisco, Cal. Dredge. No. 918,302; Apr. 13; Sp. p. 2722; Gaz. vol. 141; p. 482.  
 Elkan, J., New York, N. Y. Universal joint. No. 912,096; Feb. 9; Sp. p. 2199; Gaz. vol. 139; p. 380.  
 Elkeles, G., and E. Klie, Berlin, Germany. Furniture-polish and producing same. No. 921,382; May 11; Sp. p. 2660; Gaz. vol. 142; p. 457.  
 Elkes, J., Mount Pleasant, Pa. Removing and recovering tin. No. 919,839; Apr. 27; Sp. p. 6190; Gaz. vol. 141; p. 1056.  
 Elkin, M. H. (See Proctor and Elkin.)  
 Elkin, W. F., Lawrence, Kans. Beet toppler and puller. No. 938,306; Oct. 26; Sp. p. 5678; Gaz. vol. 147; p. 966.  
 Elkins, A. F., assignor of two-thirds to F. L. McCauley, Ironton, Ohio. Safety device for round tables. No. 938,561; Nov. 2; Sp. p. 273; Gaz. vol. 148; p. 40.  
 Elkins, B. (See Elder, W. J., assignor.)  
 Elkins, D. H. (See Taylor and Elkins.)  
 Ell, W. H., Peckham, London, England. Game apparatus. No. 934,055; Sept. 14; Sp. p. 2200; Gaz. vol. 146; p. 364.  
 Ellbrecht, J. W., St. Louis, Mo. Water-heater. No. 928,859; July 20; Sp. p. 4452; Gaz. vol. 144; p. 777.  
 Ellfelsen, E., and L. Lambin, Chicago, Ill. Can-making machine. No. 920,291; May 4; Sp. p. 431; Gaz. vol. 142; p. 66.  
 Ellerbe, C. W., Lakeland, Fla. Hinge. No. 923,037; May 25; Sp. p. 6059; Gaz. vol. 142; p. 1054.  
 Ellerbe, C. W., Lakeland, Fla. Door-stop. No. 942,893; Dec. 14; Sp. p. 1831; Gaz. vol. 149; p. 323.  
 Ellerbeck, W. W., Salt Lake City, Utah. Device for flushing tanks. No. 943,145; Dec. 14; Sp. p. 2441; Gaz. vol. 149; p. 410.  
 Ellery, N., Sacramento, Cal. Reinforced brick masonry. No. 917,028; Apr. 6; Sp. p. 141; Gaz. vol. 141; p. 27.  
 Ellery, S., assignor of ten one-hundredths to D. C. Slingerland, ten one-hundredths to F. N. Slingerland, ten one-hundredths to D. W. Isebergh, and ten one-hundredths to J. J. Dunphy, Albany, N. Y. Bed. No. 936,873; Oct. 12; Sp. p. 2652; Gaz. vol. 147; p. 442.  
 Ellery, S., assignor of ten one-hundredths to D. C. Slingerland, ten one-hundredths to F. N. Slingerland, ten one-hundredths to D. W. Isebergh, and ten one-hundredths to J. J. Dunphy, Albany, N. Y. Bed. No. 936,874; Oct. 12; Sp. p. 2653; Gaz. vol. 147; p. 442.  
 Ellett, F. S., Elmira, N. Y. Clutch for concentric rotary parts. No. 934,597; Sept. 21; Sp. p. 3262; Gaz. vol. 146; p. 569.  
 Ellett, F. S., assignor to Eclipse Machine Company, Elmira, N. Y. Back-pedaling coaster-brake. No. 908,455; Jan. 5; Sp. p. 45; Gaz. vol. 138; p. 10.  
 Ellett, F. S., assignor to Eclipse Machine Company, Elmira, N. Y. Coaster-brake. No. 921,653; May 11; Sp. p. 3213; Gaz. vol. 142; p. 549.  
 Ellett, F. S., assignor to Eclipse Machine Company, Elmira, N. Y. Back-pedaling coaster-brake. No. 924,973; June 15; Sp. p. 4037; Gaz. vol. 143; p. 687.  
 Ellett, F. S., assignor to Eclipse Machine Company, Elmira, N. Y. Back-pedaling coaster-brake. No. 925,085; June 15; Sp. p. 4251; Gaz. vol. 143; p. 723.  
 Ellett, F. S., assignor to Eclipse Machine Company, Elmira, N. Y. Back-pedaling coaster-brake. No. 929,663; Aug. 3; Sp. p. 38; Gaz. vol. 145; p. 9.  
 Ellett, F. S., and C. E. Forsyth, assignors to Eclipse Machine Company, Elmira, N. Y. Clutch and brake mechanism. No. 923,254; June 1; Sp. p. 292; Gaz. vol. 143; p. 46.  
 Elliott, E. B., Chicago, Ill. Measuring and filling apparatus. No. 933,964; Sept. 14; Sp. p. 2040; Gaz. vol. 146; p. 336.  
 Elliott, J. M., St. Inigoes, Md., and P. Ferber, Weehawken Heights, assignors to Keuffel & Esser Company, Hoboken, N. J. Pelorus. No. 918,133; Apr. 13; Sp. p. 2384; Gaz. vol. 141; p. 427.  
 Ellingsworth, W. D. (See Gillett, W. L., assignor.)  
 Ellington, E. W., assignor of one-half to R. N. Elliott, Owensboro, Ky. Mold for making coffin-boxes. No. 926,554; June 29; Sp. p. 7190; Gaz. vol. 143; p. 1271.  
 Ellington, G. W., assignor of two-thirds to C. A. and Z. L. Groome, Greensboro, N. C. Blind-hinge. No. 920,292; May 4; Sp. p. 434; Gaz. vol. 142; p. 66.  
 Ellingwood, W. L., New York, N. Y. Bottle-filling apparatus. No. 916,425; Mar. 30; Sp. p. 5610; Gaz. vol. 140; p. 1016.  
 Elliott, C., Alameda, Cal. Postage-stamp-affixing machine. No. 920,844; May 4; Sp. p. 1517; Gaz. vol. 142; p. 246.  
 Elliott, E. S., New York, N. Y. Feed-bag support. No. 912,548; Feb. 16; Sp. p. 3160; Gaz. vol. 139; p. 567.  
 Elliott, A. (See Bigham, B. V., assignor.)  
 Elliott, A. D., Viola, Ill. Carburetor. No. 944,482; Dec. 28; Sp. p. 5258; Gaz. vol. 149; p. 920.  
 Elliott, A. D., Viola, Ill., assignor of one-half to H. H. Frazier, Alliance, Nebr. Air-pump for carburetors. No. 920,443; May 4; Sp. p. 717; Gaz. vol. 142; p. 114.  
 Elliott, A. T., and A. Miller, Los Angeles, Cal.; said Elliott assignor to said Miller. Obtaining metals from their ores. No. 937,293; Oct. 19; Sp. p. 3524; Gaz. vol. 147; p. 609.  
 Elliott, C. J., Oxnard, Cal. Guard for telegraph and telephone wires. No. 928,431; July 20; Sp. p. 3595; Gaz. vol. 144; p. 636.  
 Elliott, E. M. (See Johndrow, C. F., assignor.)  
 Elliott-Fisher Company. (See Bolton, H. D., assignor.)  
 Elliott-Fisher Company. (See Dench, W. L., assignor.)  
 Elliott-Fisher Company. (See Laganke, C. F., assignor.)  
 Elliott-Fisher Company. (See Laganke and Smith, assignors.)  
 Elliott-Fisher Company. (See Smith, J. A., assignor.)  
 Elliott, J. A., Butte, Mont. Reinforced-concrete mining-timbers. No. 924,153; June 8; Sp. p. 2310; Gaz. vol. 143; p. 379.  
 Elliott, J. G., Tuxedo Park, N. Y. Textile fabric. No. 928,642; July 20; Sp. p. 4044; Gaz. vol. 144; p. 704.  
 Elliott, J. S., Mohall, N. D. Belt-shifter. No. 944,359; Dec. 28; Sp. p. 4990; Gaz. vol. 149; p. 878.  
 Elliott, J. W., Fairfield, Ill. Gate. No. 908,550; Jan. 5; Sp. p. 248; Gaz. vol. 138; p. 42.  
 Elliott, J. W., and H. C. Moss, Albion, Ill. Toy. No. 917,271; Apr. 6; Sp. p. 645; Gaz. vol. 141; p. 110.  
 Elliott, M. C., Norfolk, Va. Key-book. No. 908,456; Jan. 5; Sp. p. 46; Gaz. vol. 138; p. 10.  
 Elliott, N., Kilsyth, W. Va. Brake-operating apparatus for railway-cars. No. 917,569; Apr. 6; Sp. p. 1186; Gaz. vol. 141; p. 207.  
 Elliott, P. A. (See Hargrove, W., assignor.)  
 Elliott, P. M., assignor to Q. & H. Company, Chicago, Ill. Car-door hanger. No. 924,648; June 15; Sp. p. 3347; Gaz. vol. 143; p. 576.  
 Elliott, R. G., Toledo, Ohio. Hot-air heating-plant. No. 917,756; Apr. 13; Sp. p. 1577; Gaz. vol. 141; p. 297.  
 Elliott, R. M. (See Sprague and Elliott.)  
 Elliott, R. N. (See Ellington, E. W., assignor.)  
 Elliott, S., Newton, Mass. Stencil-cutting machine. No. 927,842; July 13; Sp. p. 2380; Gaz. vol. 144; p. 408.  
 Elliott, S., Newton, Mass. Making alloys of zinc with copper. No. 927,843; July 13; Sp. p. 2384; Gaz. vol. 144; p. 408.  
 Elliott, S., Newton, Mass. Addressing-machine. No. 935,196; Sept. 28; Sp. p. 4469; Gaz. vol. 146; p. 795.  
 Elliott, S. K., et al. (See Hughes, W. G., assignor.)  
 Elliott, T. H., assignor to Selma Fruit Company, Inc., Selma, Cal. Fruit-seeder. No. 934,900; Sept. 21; Sp. p. 3863; Gaz. vol. 146; p. 671.  
 Elliott, T. H., assignor to Selma Fruit Company, Inc., Selma, Cal. Fruit-seeder. No. 934,963; Sept. 21; Sp. p. 3993; Gaz. vol. 146; p. 694.



*Alphabetical list of patentees—Continued.*

- Elliott, T. V., New York, N. Y. Mechanical stoker. No. 942,060; Dec. 7; Sp. p. 34; Gaz. vol. 149; p. 8.
- Elliott, W. E., Grand Rapids, Mich. Combined check and seal. No. 942,314; Dec. 7; Sp. p. 611; Gaz. vol. 149; p. 97.
- Elliott, W. E., Grand Rapids, Mich. Metallic seal. No. 942,315; Dec. 7; Sp. p. 612; Gaz. vol. 149; p. 97.
- Elliott, W. E., Grand Rapids, Mich. Metallic seal. No. 942,316; Dec. 7; Sp. p. 614; Gaz. vol. 149; p. 98.
- Elliott, W. E., Grand Rapids, Mich. Packing and registering metallic seals. No. 942,317; Dec. 7; Sp. p. 618; Gaz. vol. 149; p. 98.
- Elliott, W. P., Jr., assignor of one-half to W. P. Elliott, La Grange, Ill. Swinging bell. No. 927,133; July 6; Sp. p. 906; Gaz. vol. 144; p. 146.
- Elliott, W. R., Denver, Colo. Coking plant. No. 925,428; June 15; Sp. p. 4886; Gaz. vol. 143; p. 835.
- Elliott, W. S. (See Mills and Conn, assignors.)
- Elliott, W. S., Pittsburg, Pa. Oil-purifier. No. 926,179; June 29; Sp. p. 6490; Gaz. vol. 143; p. 1149.
- Elliott, W. S., Pittsburg, Pa. Tube-cleaner. No. 928,432; July 20; Sp. p. 3598; Gaz. vol. 144; p. 636.
- Elliott, W. S., Pittsburg, Pa. Strainer. No. 937,676; Oct. 19; Sp. p. 4314; Gaz. vol. 147; p. 735.
- Elliott, W. S., Pittsburg, Pa. Rotary motor. No. 938,228; Oct. 26; Sp. p. 5508; Gaz. vol. 147; p. 941.
- Elliott, W. S., Pittsburg, Pa. Boiler-tube cleaner. No. 942,778; Dec. 7; Sp. p. 1543; Gaz. vol. 149; p. 253.
- Elliott, W. S., C. A. Conn, and H. B. Holt, Pittsburg, Pa.; said Conn and Holt assignors to said Elliott. Rotary motor. No. 917,724; Apr. 6; Sp. p. 1485; Gaz. vol. 141; p. 259.
- Ellis, A., Augusta, Ga. Cushion-wheel. No. 938,834; Nov. 2; Sp. p. 829; Gaz. vol. 148; p. 133.
- Ellis, A. J., Woodcliff-on-Hudson, N. J. Window. No. 911,813; Feb. 9; Sp. p. 1546; Gaz. vol. 139; p. 288.
- Ellis, A. J., Woodcliff-on-Hudson, N. J. Door. No. 916,128; Mar. 23; Sp. p. 5043; Gaz. vol. 140; p. 893.
- Ellis, A. L. R., Lynn, Mass., assignor to General Electric Company. Speed-indicator. No. 926,861; July 6; Sp. p. 331; Gaz. vol. 144; p. 53.
- Ellis, C. (See McElroy and Ellis.)
- Ellis, C. (See Mears and Ellis.)
- Ellis, C. (See Tait and Ellis.)
- Ellis, C., White Plains, N. Y. Manufacturing iron and steel. No. 911,870; Feb. 9; Sp. p. 1650; Gaz. vol. 139; p. 306.
- Ellis, C., White Plains, N. Y. Burning cement-clinker. No. 918,025; Apr. 13; Sp. p. 2173; Gaz. vol. 141; p. 390.
- Ellis, C., Larchmont, N. Y., assignor to Ellis-Foster Company. Magnesia cement. No. 909,171; Jan. 12; Sp. p. 1529; Gaz. vol. 138; p. 277.
- Ellis, C., Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Composition for removing finish. No. 910,049; Jan. 19; Sp. p. 3255; Gaz. vol. 138; p. 600.
- Ellis, C., Larchmont, N. Y., assignor to Ellis-Foster Company. Process of and apparatus for making cement clinker. No. 910,121; Jan. 19; Sp. p. 3390; Gaz. vol. 138; p. 623.
- Ellis, C., Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Finish-remover. No. 919,143; Apr. 20; Sp. p. 4513; Gaz. vol. 141; p. 788.
- Ellis, C., Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Finish-remover and making the same. No. 925,429; June 15; Sp. p. 4889; Gaz. vol. 143; p. 835.
- Ellis, C., Larchmont, N. Y., assignor to Ellis-Foster Company. Sanitary calcimine. No. 919,560; Apr. 27; Sp. p. 5597; Gaz. vol. 141; p. 962.
- Ellis, C., White Plains, N. Y., assignor to Pine Street Patents Company. Making cement clinker and apparatus therefor. No. 934,056; Sept. 14; Sp. p. 2202; Gaz. vol. 146; p. 364.
- Ellis, C., Larchmont, N. Y., assignor to Ellis-Foster Company. Composition for laying road-dust and hardening road-beds. No. 943,667; Dec. 21; Sp. p. 3543; Gaz. vol. 149; p. 617.
- Ellis, C., Larchmont, N. Y., assignor to Ellis-Foster Company. Borated fertilizer. No. 943,668; Dec. 21; Sp. p. 3545; Gaz. vol. 149; p. 617.
- Ellis, C., Larchmont, N. Y., assignor to Ellis-Foster Company. Borated insecticide fertilizer. No. 943,669; Dec. 21; Sp. p. 3546; Gaz. vol. 149; p. 617.
- Ellis, C., Larchmont, N. Y., assignor to Ellis-Foster Company. Steel-preservative paint. No. 943,670; Dec. 21; Sp. p. 3547; Gaz. vol. 149; p. 617.
- Ellis, C., Larchmont, N. Y., assignor to Ellis-Foster Company. Composition for eradicating rodents. No. 944,419; Dec. 28; Sp. p. 5123; Gaz. vol. 149; p. 900.
- Ellis, C., Larchmont, N. Y., assignor to Ellis-Foster Company. Antifouling composition. No. 944,420; Dec. 28; Sp. p. 5125; Gaz. vol. 149; p. 900.
- Ellis, C., White Plains, N. Y., and K. P. McElroy, Washington, D. C. Making aldehydes. No. 915,946; Mar. 23; Sp. p. 4696; Gaz. vol. 140; p. 834.
- Ellis, C., White Plains, N. Y., and K. P. McElroy, Washington, D. C., assignors to Fireproof Products Company. Chlorinating organic bodies. No. 914,251; Mar. 2; Sp. p. 1276; Gaz. vol. 140; p. 198.
- Ellis, C. J., Omaha, Nebr., assignor to Cameragraph Company. Photoplanograph. No. 929,757; Aug. 3; Sp. p. 262; Gaz. vol. 145; p. 45.
- Ellis, C. S., Chicago, Ill., assignor to American Coin Register Company. Coin-box for telephones. No. 928,188; July 13; Sp. p. 3073; Gaz. vol. 144; p. 523.
- Ellis, C. W. (See Moffat, W. S., assignor.)
- Ellis, D. J., deceased, Parlier, Cal.; E. Ellis, administratrix. Cultivator. No. 930,332; Aug. 3; Sp. p. 1430; Gaz. vol. 145; p. 237.
- Ellis, E., administratrix. (See Ellis, D. J.)
- Ellis, E., Roswell, N. Mex. Ter. Match-box. No. 913,714; Mar. 2; Sp. p. 78; Gaz. vol. 140; p. 14.
- Ellis, E., Chicago, Ill. Match-box. No. 929,411; July 27; Sp. p. 5634; Gaz. vol. 144; p. 988.
- Ellis, E. H., *et al.*, trustees. (See Ellis, E. H., assignor.)
- Ellis, E. H., Boston, assignor, by mesne assignments, to E. H. Ellis and A. D. Chandler, Brookline, Mass., trustees of Ellis Heating Company. Composition for treating fuel. No. 911,960; Feb. 9; Sp. p. 1909; Gaz. vol. 139; p. 336.
- Ellis, E. H., Winthrop, assignor, by mesne assignments, to E. H. Ellis and A. D. Chandler, trustees, Brookline, Mass. Composition for treating fuel. No. 936,241; Oct. 5; Sp. p. 1317; Gaz. vol. 147; p. 202.
- Ellis Electric Sign Company. (See Ellis, J. W., assignor.)
- Ellis-Foster Company. (See Ellis, C., assignor.)
- Ellis-Foster Company. (See Foster, N. L., assignor.)
- Ellis, G. A., Jr. (See Hutton and Ellis.)
- Ellis, G. M., assignor of one-tenth to J. B. Brown and nine-fortieths to U. R. Cherry, Omaha, Nebr. Rail-joint. No. 928,952; July 27; Sp. p. 4651; Gaz. vol. 144; p. 835.
- Ellis Heating Company. (See Ellis, E. H., assignor.)
- Ellis, J. I., Morrilton, Ark. Attachment for plows. No. 926,930; July 6; Sp. p. 468; Gaz. vol. 144; p. 76.
- Ellis, J. L., Hillyard, Wash. Stovepipe-fastener. No. 930,652; Aug. 10; Sp. p. 2120; Gaz. vol. 145; p. 370.
- Ellis, J. W., Portland, Me. Ventilator. No. 909,381; Jan. 12; Sp. p. 1924; Gaz. vol. 138; p. 343.
- Ellis, J. W., Denver, Colo., assignor, by mesne assignments, to Ellis Electric Sign Company. Advertising-sign. No. 931,188; Aug. 17; Sp. p. 3301; Gaz. vol. 145; p. 575.
- Ellis Lacer Company. (See Ellis, W. E., assignor.)
- Ellis Lacer Company. (See Whelan, T. F., assignor.)
- Ellis, P. W., *et al.* (See Reesor, I. C., assignor.)
- Ellis, P. W., Denver, Colo. Car-seal. No. 912,947; Feb. 16; Sp. p. 3966; Gaz. vol. 139; p. 698.
- Ellis, T., Tacoma, G. H. Purvis, Seattle, and J. S. Creech, Raymond, Wash. Automatic track-inspector. No. 938,993; Nov. 2; Sp. p. 1176; Gaz. vol. 148; p. 188.
- Ellis, T. H., assignor of one-half to B. T. Cary, Austin, Tex. Cotton-chopper. No. 913,115; Feb. 23; Sp. p. 4316; Gaz. vol. 139; p. 781.
- Ellis, W. C. (See Lowe, C. E., assignor.)
- Ellis, W. C., Hobart, Okla. Rail-end angle-bar. No. 921,965; May 18; Sp. p. 3865; Gaz. vol. 142; p. 676.
- Ellis, W. E., Minneapolis, Minn. Candy-cutter. No. 918,427; Apr. 13; Sp. p. 2966; Gaz. vol. 141; p. 522.
- Ellis, W. E., Chicago, Ill. Grain-drier. No. 921,097; May 11; Sp. p. 2052; Gaz. vol. 142; p. 361.
- Ellis, W. E., Haverhill, Mass., assignor to Ellis Lacer Company. Fastener for shoe-uppers. No. 915,755; Mar. 23; Sp. p. 4357; Gaz. vol. 140; p. 774.
- Ellis, W. E., Haverhill, Mass., assignor to Ellis Lacer Company. Means for tying shoe-uppers. No. 920,293; May 4; Sp. p. 436; Gaz. vol. 142; p. 67.
- Ellis, W. E., Haverhill, Mass., assignor to Ellis Lacer Company. Means for tying shoe-uppers. No. 920,294; May 4; Sp. p. 437; Gaz. vol. 142; p. 67.
- Ellis, W. E., Haverhill, Mass., assignor, by mesne assignments, to Krentler-Arnold Hinge Last Company, Detroit, Mich. Last. No. 928,909; July 20; Sp. p. 4569; Gaz. vol. 144; p. 795.
- Ellis, W. J., assignor of two-thirds to C. W. Savage and W. A. Savage, Andrews, N. C. Combined boiler and furnace. No. 914,647; Mar. 9; Sp. p. 2071; Gaz. vol. 140; p. 353.
- Ellis, W. O. C., near Greenfield, Ohio. Sound-reproducing apparatus. No. 918,303; Apr. 13; Sp. p. 2724; Gaz. vol. 141; p. 483.
- Ellis, W. O. C., near Greenfield, Ohio. Sound-reproducing apparatus. No. 918,304; Apr. 13; Sp. p. 2726; Gaz. vol. 141; p. 483.
- Ellis, W. O. C., near Greenfield, Ohio. Sound-reproducing apparatus. No. 918,487; Apr. 13; Sp. p. 3093; Gaz. vol. 141; p. 542.
- Ellis, W. T., Weston, Ohio. Gage-wheel for corn-planters. No. 940,382; Nov. 16; Sp. p. 4324; Gaz. vol. 148; p. 724.

*Alphabetical list of patentees—Continued.*

- Ellison, J. D., Rives, Tenn. Automatic shaft lifting and supporting device. No. 930,539; Aug. 10; Sp. p. 1887; Gaz. vol. 145; p. 333.
- Elithorp, A. O., Dougherty, Okla. Insect-destroyer. No. 913,205; Feb. 23; Sp. p. 4498; Gaz. vol. 139; p. 811.
- Elmann, E. E., St. Louis, Mo. Liquid-soap receptacle. No. 924,046; June 8; Sp. p. 2059; Gaz. vol. 143; p. 343.
- Elmann, E. E., St. Louis, Mo. Liquid-soap receptacle. No. 924,047; June 8; Sp. p. 2061; Gaz. vol. 143; p. 343.
- Ells, B. S., Troy, N. Y. Collar. No. 927,134; July 6; Sp. p. 907; Gaz. vol. 144; p. 146.
- Ellostrom, G., Pittsburg, Pa. Support for sad-irons. No. 944,182; Dec. 21; Sp. p. 4611; Gaz. vol. 149; p. 791.
- Ellsworth, H. E., assignor to Ensign-Bickford Company, Simsbury, Conn. Fuse. No. 920,118; May 4; Sp. p. 63; Gaz. vol. 142; p. 8.
- Ellsworth, H. E., assignor to Ensign-Bickford Company, Simsbury, Conn. Manufacture of fuses. No. 920,119; May 4; Sp. p. 65; Gaz. vol. 142; p. 8.
- Ellsworth, R. J., Chicago, Ill. Detachable conveying-trolley. No. 911,221; Feb. 2; Sp. p. 386; Gaz. vol. 139; p. 68.
- Ellwart, N., Chicago, Ill. Screen. No. 928,643; July 20; Sp. p. 4045; Gaz. vol. 144; p. 704.
- Elmendorf, F. L., (See Gunton, R., assignor.)
- Elmer, C. K., St. Paul, Minn. Automobile turn-table. No. 923,825; June 8; Sp. p. 1646; Gaz. vol. 143; p. 273.
- Elmer, F. M., *et al.* (See Gowing, E. T., assignor.)
- Elmer, W. M., *et al.* (See Gowing, E. T., assignor.)
- Elmore, A. S., (See Elmore F. E. and A. S.)
- Elmore, C. B., assignor to S. E. Elmore, Hartford, Conn. Change-speed mechanism. No. 941,506; Nov. 30; Sp. p. 6749; Gaz. vol. 148; p. 1144.
- Elmore, F. E. and A. S., London, England. Apparatus for separating solids from liquids. No. 919,144; Apr. 20; Sp. p. 4515; Gaz. vol. 141; p. 788.
- Elmore, G. H., Joplin, Mo. Plunger mechanism for jig-tanks. No. 938,307; Oct. 26; Sp. p. 5680; Gaz. vol. 147; p. 967.
- Elmore, S., (See Trescott, C. B., assignor.)
- Elmore, S. E., (See Elmore, C. B., assignor.)
- Elmiff, J., Kansas City, Mo. Vessel-propelling apparatus. No. 917,935; Apr. 13; Sp. p. 1965; Gaz. vol. 141; p. 357.
- Elphick, T. A., Barnes, England. Ironing-machine. No. 912,450; Feb. 16; Sp. p. 2941; Gaz. vol. 139; p. 534.
- Elsey, R. H., Coalinda, Cal. Equalizing multiple air-lift for deep-well pumping. No. 911,649; Feb. 9; Sp. p. 1251; Gaz. vol. 139; p. 235.
- Elshoff, B., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 911,708; Feb. 9; Sp. p. 1367; Gaz. vol. 139; p. 254.
- Elshoff, B., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Alternating-current dynamo-electric machine. No. 925,884; June 22; Sp. p. 5873; Gaz. vol. 143; p. 1015.
- Elshoff, H. F., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Induction-motor construction. No. 911,481; Feb. 2; Sp. p. 860; Gaz. vol. 139; p. 152.
- Elsner, A. W., St. Louis, Mo. Pencil-point sharpener. No. 938,835; Nov. 2; Sp. p. 830; Gaz. vol. 148; p. 133.
- Elsner, F. J., Racine, Wis. Vehicle-seat. No. 941,983; Nov. 30; Sp. p. 7748; Gaz. vol. 148; p. 1305.
- Elspass, J. H., assignor to Triplex Roll Company, Denver, Colo. Roller-mill. No. 916,129; Mar. 23; Sp. p. 5045; Gaz. vol. 140; p. 894.
- Elsworth, F. H., and C. L. Dowell, Anderson, Ind. Briquetting-machine. No. 940,959; Nov. 23; Sp. p. 5556; Gaz. vol. 148; p. 941.
- Elton, C. A., Akron, Ohio. Spring-actuated motor. No. 920,120; May 4; Sp. p. 66; Gaz. vol. 142; p. 8.
- Elyptic Manufacturing Company. (See Conger and Pearce, assignors.)
- Elvin, A. G., East Orange, N. J. Roof-carline. No. 934,801; Sept. 21; Sp. p. 3677; Gaz. vol. 146; p. 638.
- Elving, H. F., *et al.* (See Diefenderfer, J. E., assignor.)
- Elvis, G. H., (See Bellinger, H. C., assignor.)
- Elward, J. H., Castleton, Kans. Ventilating apparatus. No. 921,966; May 18; Sp. p. 3866; Gaz. vol. 142; p. 677.
- Elwell, E. L., Newton, Mass. Machine for making mica plates and the like. No. 934,057; Sept. 14; Sp. p. 2208; Gaz. vol. 146; p. 365.
- Elwell, R. T., Paterson, N. J. Rubber heel. No. 909,567; Jan. 12; Sp. p. 2294; Gaz. vol. 138; p. 406.
- Elwing, J. E., Summit, Wash. Shingle-band-nailing machine. No. 910,050; Jan. 19; Sp. p. 3255; Gaz. vol. 138; p. 600.
- Elwood, R. L., Jr., (See Elwood, R. L., Sr., and R. L., Jr.)
- Elwood, R. L., Sr., and R. L., Jr., Monongahela, Pa. Nut and bolt lock. No. 916,285; Mar. 23; Sp. p. 5329; Gaz. vol. 140; p. 944.
- Elwood, W. M., Seattle, Wash. Gage for crosscut-saws. No. 917,425; Apr. 6; Sp. p. 936; Gaz. vol. 141; p. 163.
- Elworthy, E. G., administratrix. (See Elworthy, H. S.)
- Elworthy, H. S., deceased, St. Albans, England; E. G. Elworthy, administratrix. Manufacture of gas for illuminating, heating, or power purposes. No. 943,627; Dec. 14; Sp. p. 3440; Gaz. vol. 149; p. 574.
- Elworthy, W., *et al.* (See Kölle, W., assignor.)
- Ely, B. B., and C. C. Flaugh, Jr., Montpelier, Ind. Brace for fence-posts. No. 934,901; Sept. 21; Sp. p. 3865; Gaz. vol. 146; p. 671.
- Ely, F. D., Plainfield, N. J. Firearm. No. 908,982; Jan. 5; Sp. p. 1143; Gaz. vol. 138; p. 181.
- Ely, H. F., Brooklyn, N. Y. Water-tube boiler. No. 937,782; Oct. 26; Sp. p. 4562; Gaz. vol. 147; p. 790.
- Ely, J. W., (See Traver, H. G., assignor.)
- Ely, M. J., assignor of one-half to J. A. Driffill, Oxnard, Cal. Beet-harvester. No. 933,026; Aug. 31; Sp. p. 7148; Gaz. vol. 145; p. 1228.
- Ely-Norris Safe Company. (See Bedell, O. W., assignor.)
- Ely-Norris Safe Company. (See Ely, S. A., assignor.)
- Ely, S. A., Yonkers, N. Y., assignor to Ely-Norris Safe Company, Perth Amboy, N. J. Safe. No. 909,568; Jan. 12; Sp. p. 2295; Gaz. vol. 138; p. 1406.
- Emal, F. J., and C. P. Hora, Pickrell, Nebr. Cement-block machine. No. 939,236; Nov. 9; Sp. p. 1710; Gaz. vol. 148; p. 297.
- Emans, T. F., Lansing, Mich. Mail-weighing scale. No. 929,200; July 27; Sp. p. 5176; Gaz. vol. 144; p. 917.
- Emanuel, P. A., Aiken, S. C. Retort for distilling gases and vapors. No. 922,407; May 18; Sp. p. 4741; Gaz. vol. 142; p. 822.
- Embalmer's Supply Company. (See Dolge and Holzhausen, assignors.)
- Emberger, W., assignor of one-fifth to W. Binder, one-fifth to J. Nagle, and one-fifth to R. B. Zane, Niles, Mich. Draw-bar and draft attachment. No. 938,133; Oct. 26; Sp. p. 5302; Gaz. vol. 147; p. 907.
- Embleton, J., deceased, G. W. Cowgill, administrator, Phoenix, Ariz. Ter. Ditch-digging machine. No. 912,937; Feb. 16; Sp. p. 3946; Gaz. vol. 139; p. 695.
- Embree, A. E., Boise, Idaho. Oil-separator. No. 913,000; Feb. 23; Sp. p. 4091; Gaz. vol. 139; p. 742.
- Embry, J. E., Hammond, La. Binder for trunks or packages. No. 925,763; June 22; Sp. p. 5613; Gaz. vol. 143; p. 974.
- Embry, T., Paniqui, Philippine Islands. Safety-envelop. No. 918,982; Apr. 20; Sp. p. 4219; Gaz. vol. 141; p. 737.
- Embury Manufacturing Co. (See Embury, W. C., assignor.)
- Embury, W. C., assignor to Embury Manufacturing Co., Rochester, N. Y. Bell-tube for lanterns. No. 919,145; Apr. 20; Sp. p. 4517; Gaz. vol. 141; p. 789.
- Embury, W. C., assignor to Embury Manufacturing Co., Rochester, N. Y. Tubular lantern. No. 919,146; Apr. 20; Sp. p. 4517; Gaz. vol. 141; p. 789.
- Emden, P., assignor to Bergmann Elektrizitäts Werke Aktiengesellschaft, Berlin, Germany. Blade for turbines. No. 913,273; Feb. 23; Sp. p. 4643; Gaz. vol. 139; p. 833.
- Emerick, F. A., Oswego, N. Y., assignor to Great Bear Spring Company, Jersey City, N. J. Endless carrier. No. 940,793; Nov. 23; Sp. p. 5223; Gaz. vol. 148; p. 886.
- Emerick, G. S., Nazareth, Pa. Tube-mill. No. 927,516; July 13; Sp. p. 1676; Gaz. vol. 144; p. 299.
- Emerick, G. S., Nazareth, Pa. Air-separator. No. 928,953; July 27; Sp. p. 4652; Gaz. vol. 144; p. 835.
- Emerick, G. S., Nazareth, Pa. Grinding-mill. No. 931,045; Aug. 17; Sp. p. 2988; Gaz. vol. 145; p. 527.
- Emerick, G. S., Nazareth, Pa. Grinding-mill. No. 944,670; Dec. 28; Sp. p. 5683; Gaz. vol. 149; p. 986.
- Emery, L. A., and F. Matschuk, Altoona, Pa. Metallic tie. No. 942,721; Dec. 7; Sp. p. 1432; Gaz. vol. 149; p. 234.
- Emerson, A., Boston, Mass. Threading-machine. No. 930,653; Aug. 10; Sp. p. 2122; Gaz. vol. 145; p. 370.
- Emerson, A. S., New York, N. Y. Street-sweeper. No. 920,295; May 4; Sp. p. 438; Gaz. vol. 142; p. 67.
- Emerson, A. S., London, England. Cremating sweeping-machine. No. 931,741; Aug. 24; Sp. p. 4485; Gaz. vol. 145; p. 781.
- Emerson, C. J., Providence, R. I. Calorimeter. No. 931,189; Aug. 17; Sp. p. 3302; Gaz. vol. 145; p. 575.
- Emerson, C. L., (See Dougherty, Emerson, and Be Dell.)
- Emerson Electric Manufacturing Company. (See Meston and Finch, assignors.)
- Emerson Electric Manufacturing Company. (See Pfaff, A. J., assignor.)
- Emerson, F. W., Los Angeles, Cal. Sad-iron. No. 943,302; Dec. 14; Sp. p. 2732; Gaz. vol. 149; p. 461.
- Emerson, F. W., assignor to Emerson Supply Company, Providence, R. I. Print-washing machine. No. 930,654; Aug. 10; Sp. p. 2123; Gaz. vol. 145; p. 370.
- Emerson, G. H., R. D. Hawkins, and F. T. Kitchen, St. Paul, Minn., assignors, by mesne assignments, to Gold Car Heating & Lighting Company, New York, N. Y. Acetylene-gas generator. No. 927,780; July 13; Sp. p. 2234; Gaz. vol. 144; p. 387.
- Emerson, G. H., R. D. Hawkins, and F. T. Kitchen, St. Paul, Minn., assignors to Gold Car Heating & Lighting Company, New York, N. Y. Acetylene-gas generator. No. 932,006; Aug. 24; Sp. p. 5069; Gaz. vol. 145; p. 867.
- Emerson, H., Milton, Mass. Dental-silk receptacle. No. 927,844; July 13; Sp. p. 2384; Gaz. vol. 144; p. 408.
- Emerson Manufacturing Company. (See Waterman, L. E., assignor.)



*Alphabetical list of patentees—Continued.*

- Emerson Piano Company. (See Crippen, W. R., assignor.)  
 Emerson Steam Pump Company. (See Emerson, W. R., assignor.)  
 Emerson Supply Company. (See Emerson, F. W., assignor.)  
 Emerson Typewriter Company. (See Sargent, M. B., assignor.)  
 Emerson Typewriter Company. (See Uhlig, R. W., assignor.)  
 Emerson, W. R., Washington, D. C., assignor to Emerson Steam Pump Company, Alexandria, Va. Steam vacuum-pump. No. 921,967; May 18; Sp. p. 3869; Gaz. vol. 142; p. 677.  
 Emert, J. A., Jellico, Tenn. Poultry-coop. No. 941,507; Nov. 30; Sp. p. 6756; Gaz. vol. 148; p. 1144.  
 Emery, A. H., Stamford, Conn. Testing-machine. No. 918,488; Apr. 13; Sp. p. 3095; Gaz. vol. 141; p. 543.  
 Emery, A. H., Stamford, Conn. Regulating initial strains in rolling structural material. No. 939,676; Nov. 9; Sp. p. 2719; Gaz. vol. 148; p. 449.  
 Emery, B. F., Thayer, Iowa. Hame and tug connection. No. 911,650; Feb. 9; Sp. p. 1252; Gaz. vol. 139; p. 235.  
 Emery, B. F., Thayer, Iowa. Knife-sharpener. No. 942,959; Dec. 14; Sp. p. 1994; Gaz. vol. 149; p. 345.  
 Emery, F. E., New York, N. Y. Automatic switch and stand for pressing-irons. No. 913,480; Feb. 23; Sp. p. 5050; Gaz. vol. 139; p. 902.  
 Emery, F. E., New York, N. Y. Automatic electromagnetic switch and stand for pressing-irons. No. 913,481; Feb. 23; Sp. p. 5053; Gaz. vol. 139; p. 903.  
 Emery, G. L., Beresford, S. D. Potato-bug catcher. No. 932,454; Aug. 31; Sp. p. 5956; Gaz. vol. 145; p. 1038.  
 Emery, G. W., *et al.* (See Williams, R., assignor.)  
 Emery, M. E., *et al.* (See Gifford, W. E., assignor.)  
 Emery, S. P., Big Run, Pa. Locomotive-headlight. No. 940,446; Nov. 16; Sp. p. 4457; Gaz. vol. 148; p. 745.  
 Emery, V. J., Quincy, Mass. Clutch mechanism. No. 936,102; Oct. 5; Sp. p. 1059; Gaz. vol. 147; p. 161.  
 Emery, W. S., New York, N. Y. Post-hinge. No. 923,038; May 25; Sp. p. 6060; Gaz. vol. 142; p. 1055.  
 Emery, W. S., New York, N. Y. Water-closet seat. No. 923,039; May 25; Sp. p. 6061; Gaz. vol. 142; p. 1055.  
 Emil Busch, Actiengesellschaft, Optische Industrie. (See Martin and Stiege, assignors.)  
 Emley, F. N., Creamridge, N. J. Vehicle-spring. No. 915,337; Mar. 16; Sp. p. 3470; Gaz. vol. 140; p. 605.  
 Emmelius, W., Godesberg, Germany. Metallic-cap closure. No. 929,412; July 27; Sp. p. 5635; Gaz. vol. 144; p. 988.  
 Emmenegger, F., St. Louis, Mo. Ventilator. No. 909,772; Jan. 12; Sp. p. 2693; Gaz. vol. 138; p. 476.  
 Emmerich, R., Munich, Germany. Preserving meat. No. 909,172; Jan. 12; Sp. p. 1530; Gaz. vol. 138; p. 277.  
 Emmerich, R. F., Brooklyn, N. Y. Coin-controlled vending-machine. No. 923,958; June 8; Sp. p. 1892; Gaz. vol. 143; p. 316.  
 Emmert, S. L. (See Jones, C. A., assignor.)  
 Emmert, W. H., Sewickley, Pa. Elastic cuff and sleeve protector. No. 924,545; June 8; Sp. p. 3121; Gaz. vol. 143; p. 509.  
 Emmet, W. L. R., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 920,645; May 4; Sp. p. 1520; Gaz. vol. 142; p. 246.  
 Emmet, W. L. R., Schenectady, N. Y., assignor to General Electric Company. Turbine. No. 924,546; June 8; Sp. p. 3122; Gaz. vol. 143; p. 509.  
 Emmet, W. L. R., Schenectady, N. Y., assignor to General Electric Company. Shaft-packing. No. 924,897; June 15; Sp. p. 3873; Gaz. vol. 143; p. 660.  
 Emmet, W. L. R., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 924,898; June 15; Sp. p. 3875; Gaz. vol. 143; p. 661.  
 Emmet, W. L. R., Schenectady, N. Y., assignor to General Electric Company. Enforced-flow elastic-fluid turbine. No. 932,849; Aug. 31; Sp. p. 6810; Gaz. vol. 145; p. 1169.  
 Emmet, W. L. R., Schenectady, N. Y., assignor to General Electric Company. Means for cooling dynamo-electric machines. No. 937,429; Oct. 19; Sp. p. 3834; Gaz. vol. 147; p. 653.  
 Emmet, W. L. R., and E. M. Hewlett, Schenectady, N. Y., assignors to General Electric Company. Electric switch. No. 942,491; Dec. 7; Sp. p. 970; Gaz. vol. 149; p. 157.  
 Emmons, H. D., Woodstock, and W. B. Emmons, Thornton, N. H. Automatic valve. No. 913,817; Mar. 2; Sp. p. 289; Gaz. vol. 140; p. 49.  
 Emmons, W. B. (See Emmons, H. D. and W. B.)  
 Emmrich, O. R., West Bend, Wis. Barrel. No. 924,649; June 15; Sp. p. 3349; Gaz. vol. 143; p. 577.  
 Emond, J., *et al.* (See Cartin, J., assignor.)  
 Emond, J. W., *et al.* (See Cartin, J., assignor.)  
 Emond, W., *et al.* (See Cartin, J., assignor.)  
 Empire Duplex Gin Company. (See Kent, F. T., assignor.)  
 Empire Jewelry Case Company. (See Sundee, J. R., assignor.)  
 Empire Light Limited. (See Miess, J. H., assignor.)  
 Empire Machine Company. (See Dearborn, C. A., assignor.)  
 Empire Talking Machine Company. (See Noll, J., assignor.)  
 Empire Trust Company. (See d'Aix, F. C. L., assignor.) (Reissue.)  
 Empire Voting Machine Company. (See Dean, J. H., assignor.)  
 Empire Voting Machine Company. (See Harkness, L. T., assignor.)  
 Empire Voting Machine Company. (See Lausterer, W. J., assignor.)  
 Empire Voting Machine Company. (See McKenzie, A., assignor.)  
 Empire Voting Machine Company. (See Wolf, E. E., assignor.)  
 Enamel Concrete Company. (See Bartlett, G. H., assignor.)  
 Endicott, G. A., Sedalia, Mo. Wire-stretching appliance. No. 940,521; Nov. 16; Sp. p. 4617; Gaz. vol. 148; p. 770.  
 Endler, A., Celle, Germany. Filter. No. 930,167; Aug. 3; Sp. p. 1150; Gaz. vol. 145; p. 187.  
 Endres, L. M., Cross Plains, Wis. Saw-feeder. No. 933,965; Sept. 14; Sp. p. 2042; Gaz. vol. 146; p. 336.  
 Endsley, R. A. (See Eason, W. B., assignor.)  
 Engan, H., New York, N. Y. Lettering or stamping frame. No. 921,682; May 18; Sp. p. 3290; Gaz. vol. 142; p. 585.  
 Engberg, E. O., Salt Lake City, Utah, assignor to J. B. Patton, Kent, Ohio. Measuring device for window-shade machines. No. 936,103; Oct. 5; Sp. p. 1061; Gaz. vol. 147; p. 162.  
 Engberg, E. O., Salt Lake City, Utah, assignor to J. B. Patton, Kent, Ohio. Knife for window-shade machines. No. 943,221; Dec. 14; Sp. p. 2553; Gaz. vol. 149; p. 433.  
 Engebretson, E., Devils Lake, N. D. Controlling-valve. No. 917,570; Apr. 6; Sp. p. 1187; Gaz. vol. 141; p. 208.  
 Engebretson, E., Devils Lake, N. D. Apparatus for producing uniform fluid-pressure for engines. No. 925,627; June 22; Sp. p. 5294; Gaz. vol. 143; p. 930.  
 Engel, A., Milwaukee, Wis., assignor to Milwaukee Brass Manufacturing Company. Faucet. No. 943,526; Dec. 14; Sp. p. 3204; Gaz. vol. 149; p. 539.  
 Engel, A. F., New York, N. Y. Device for binding sheet-music together. No. 924,650; June 15; Sp. p. 3350; Gaz. vol. 143; p. 577.  
 Engel, J., Millersburg, Ohio. Rail-fastener. No. 929,413; July 27; Sp. p. 5636; Gaz. vol. 144; p. 989.  
 Engel, K., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making shoes. No. 931,851; Aug. 24; Sp. p. 4709; Gaz. vol. 145; p. 816.  
 Engelberg, H. H., and C. Wagner, Danville, Pa. Electric clock. No. 912,235; Feb. 9; Sp. p. 2447; Gaz. vol. 139; p. 422.  
 Engelbrecht, W., Cissna Park, Ill. Fly-trap. No. 926,323; June 29; Sp. p. 6791; Gaz. vol. 143; p. 1194.  
 Engelhardt & Sons, F. (See Hobart, A. J., assignor.)  
 Engelhardt & Sons, F. (See Wieser, J., assignor.)  
 Engelhardt, V., and M. Huth, Charlottenburg, assignors to Siemens & Halske, Aktiengesellschaft, Berlin, Germany. Electrolytic winning of zinc from solutions of zinc sulfate. No. 935,250; Sept. 28; Sp. p. 4576; Gaz. vol. 146; p. 814.  
 Engelhart, J. G., Atlanta, Ga. Combination check-valve and water seal. No. 934,297; Sept. 14; Sp. p. 2687; Gaz. vol. 146; p. 446.  
 Engelland, H. F., Mishicot, Wis. Corn-harvesting machine. No. 934,511; Sept. 21; Sp. p. 3102; Gaz. vol. 146; p. 541.  
 Engelm, M., McHenry, Ill. Expandable and contractible core for making cement conductors. No. 914,032; Mar. 2; Sp. p. 824; Gaz. vol. 140; p. 126.  
 Engesser, M., Redwood, N. Y. Hay-rack. No. 930,365; Aug. 10; Sp. p. 1505; Gaz. vol. 145; p. 273.  
 Engi, G., assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Mono-brom-trichlor indigo and making same. No. 915,335; Mar. 16; Sp. p. 3471; Gaz. vol. 140; p. 606.  
 Engi, G., assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Red vat dye and making same. No. 923,959; June 8; Sp. p. 1899; Gaz. vol. 143; p. 317.  
 Engi, G., and H. Kappeler, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Brown vat dye and making same. No. 940,586; Nov. 16; Sp. p. 4752; Gaz. vol. 148; p. 791.  
 Engineering Instruments Limited. (See Garside, E., assignor.)  
 Engineers Specialty Company. (See Mencer, E. A., assignor.)  
 Engineers Specialty Company. (See Ruggles, H. A., assignor.)  
 England, W. C. (See Milam, J. F., assignor.)

*Alphabetical list of patentees—Continued.*

- Engle, J. F., assignor to North Electric Company, Cleveland, Ohio. Interrupter circuit and apparatus. No. 921,601; May 11; Sp. p. 3093; Gaz. vol. 142; p. 528.
- Englehart, H. (See Hankins, J. E., assignor.)
- Engler, F. J., South Omaha, Nebr. Attaching means for bails. No. 914,125; Mar. 2; Sp. p. 1015; Gaz. vol. 140; p. 159.
- Englerth, A. F., assignor to J. Rusnak, Chicago, Ill. Combined bed and davenport. No. 931,852; Aug. 24; Sp. p. 4711; Gaz. vol. 145; p. 816.
- Englerth, A. F., assignor to J. Rusnak, Chicago, Ill. Hinge. No. 934,149; Sept. 14; Sp. p. 2413; Gaz. vol. 146; p. 397.
- Englich, W. C., St. Louis, Mo. Knockdown shipping-crate. No. 926,931; July 6; Sp. p. 469; Gaz. vol. 144; p. 76.
- Englich, C., Byrnedale, Pa. Cross-tie and rail-fastener. No. 925,999; June 22; Sp. p. 6083; Gaz. vol. 143; p. 1052.
- English, E. T., Queenstown, Md. Stock-feeding apparatus. No. 931,742; Aug. 24; Sp. p. 4486; Gaz. vol. 145; p. 781.
- English, E., Millikin, La. Lightning device. No. 923,960; June 8; Sp. p. 1900; Gaz. vol. 143; p. 317.
- English, J. C., Camden, N. J., assignor to Victor Talking Machine Company. Sound-box for sound recording and reproducing machines. No. 940,794; Nov. 23; Sp. p. 5225; Gaz. vol. 148; p. 887.
- English, J. C., Camden, N. J., assignor to Victor Talking Machine Company. Sound-box for talking-machines. No. 940,795; Nov. 23; Sp. p. 5229; Gaz. vol. 148; p. 887.
- English, J. C., Camden, N. J., assignor to Victor Talking Machine Company. Sound-box for sound recording and reproducing machines. No. 940,796; Nov. 23; Sp. p. 5231; Gaz. vol. 148; p. 887.
- English, N., Detroit, Mich. Steam-trap. No. 918,134; Apr. 13; Sp. p. 2389; Gaz. vol. 141; p. 428.
- English, N., Detroit, Mich. Steam-trap. No. 920,552; May 4; Sp. p. 933; Gaz. vol. 142; p. 150.
- English, N., Detroit, Mich. Steam-trap. No. 939,677; Nov. 9; Sp. p. 2720; Gaz. vol. 143; p. 450.
- English, R. M. (See English, Z. R., assignor.)
- English, S. C., Ardrea, Ontario, Canada. Apparatus for loading shocks. No. 921,383; May 11; Sp. p. 2661; Gaz. vol. 142; p. 458.
- English, S. C., Ardrea, Ontario, Canada. Metallic conveyer-chain for harvesters and binders. No. 926,806; July 6; Sp. p. 202; Gaz. vol. 144; p. 34.
- English, T. F., Hudson, Mass. Channel-flap layer. No. 933,297; Sept. 7; Sp. p. 603; Gaz. vol. 146; p. 93.
- English, W. (See MacKenzie, W. A., assignor.)
- English, Z. R., Milton, assignor of one-fourth to R. M. English, Cogan House township, Pa. Car-door. No. 923,961; June 8; Sp. p. 1901; Gaz. vol. 143; p. 317.
- Englund, A. H., Philadelphia, Pa., assignor to Pay-Within Car Company, Wilmington, Del. Pay-within passenger railway-car. No. 939,899; Nov. 9; Sp. p. 3183; Gaz. vol. 143; p. 525.
- Englund, E., El Campo, Tex. Land-roller. No. 941,770; Nov. 30; Sp. p. 7316; Gaz. vol. 148; p. 1232.
- Englund, E. E., assignor to D. M. Sechler Carriage Company, Moline, Ill. Corn-planter. No. 918,983; Apr. 20; Sp. p. 4220; Gaz. vol. 141; p. 737.
- Engquist, A., Minneapolis, Minn. Plasterer's darby. No. 917,571; Apr. 6; Sp. p. 1189; Gaz. vol. 141; p. 208.
- Engstrom, C. F., St. Charles, Ill. Album and sheets therefor. No. 912,656; Feb. 16; Sp. p. 3366; Gaz. vol. 139; p. 604.
- Eninger, C., New York, N. Y., assignor to H. B. Hardenburg & Co. Purse. No. 912,451; Feb. 16; Sp. p. 2943; Gaz. vol. 139; p. 534.
- Ennis, B. F., assignor to J. N. Scism, Syracuse, N. Y. Lathe tool-holder. No. 917,029; Apr. 6; Sp. p. 142; Gaz. vol. 141; p. 27.
- Ennis, B. F. and J. N. Scism, Syracuse, N. Y.; said Ennis assignor to said Scism. Holder for boring-tools. No. 932,378; Aug. 24; Sp. p. 5796; Gaz. vol. 145; p. 990.
- Ennis, G., Ridgeway, Mo. Wagon-brake. No. 910,997; Jan. 26; Sp. p. 5218; Gaz. vol. 138; p. 940.
- Ennis, J. J. (See Bittlinger and Ennis.)
- Enochs, C. D., La Crosse, Wis. Telephone-transmitter. No. 908,551; Jan. 5; Sp. p. 249; Gaz. vol. 138; p. 42.
- Enochs, C. D., La Crosse, Wis. Dry battery. No. 917,272; Apr. 6; Sp. p. 646; Gaz. vol. 141; p. 110.
- Enochs, C. D., La Crosse, Wis., assignor to Vote-Berger Co. Self-restoring clear-out drop for telephone-switchboards. No. 921,384; May 11; Sp. p. 2664; Gaz. vol. 142; p. 458.
- Enochs, C. D., La Crosse, Wis., assignor to Vote-Berger Company. Annunciator. No. 921,385; May 11; Sp. p. 2665; Gaz. vol. 142; p. 458.
- Enochs, C. D., La Crosse, Wis., assignor to Vote-Berger Co. Telephone desk set. No. 943,773; Dec. 21; Sp. p. 3747; Gaz. vol. 149; p. 652.
- Enos, C. W., Boston, and J. M. West, Peabody, assignors to Climax Lubricator Company, Boston, Mass. Pump. No. 910,802; Jan. 26; Sp. p. 4862; Gaz. vol. 138; p. 878.
- Enos Company. (See Hopton, L. R., assignor.)
- Enrico, G., assignor, by mesne assignments, to F. I. A. T. Fabbrica Italiana Automobili Torino, Turin, Italy. Combustion-motor. No. 930,056; Aug. 3; Sp. p. 918; Gaz. vol. 145; p. 147.
- Enrico, G., Turin, Italy, assignor, by mesne assignments, to F. I. A. T., Poughkeepsie township, N. Y. Radiator suspension for motor-cars. No. 939,961; Nov. 9; Sp. p. 3321; Gaz. vol. 148; p. 548.
- Enrietti, C., Naples, Italy. Motor. No. 925,318; June 15; Sp. p. 4685; Gaz. vol. 143; p. 800.
- Ensign-Bickford Company. (See Ellsworth, H. E., assignor.)
- Ensign, O. H., Madison, Wis. Gas-washing apparatus. No. 933,966; Sept. 14; Sp. p. 2043; Gaz. vol. 146; p. 337.
- Ensminger, F. R. (See Roseland, T. C., assignor.)
- Ensor, C. O., Cowden, Ill. Comb. No. 924,048; June 8; Sp. p. 2063; Gaz. vol. 143; p. 343.
- Enstrom, R. (See Swenberg and Enstrom.)
- Enterline, W., Big Run, Pa. Thermostat. No. 929,051; July 27; Sp. p. 4924; Gaz. vol. 144; p. 877.
- Enterprise Automobile Company. (See Dyer, L. H., assignor.)
- Enterprise Railway Equipment Company. (See Campbell, A., assignor.)
- Enterprise Specialty Company. (See Cooper, J. W., assignor.)
- Enyart, J. M., Eldon, Iowa. Crate. No. 908,983; Jan. 5; Sp. p. 1146; Gaz. vol. 138; p. 181.
- Enz, H., and G. Weinschenker, Allsworth, Pa. Steam-trap. No. 933,538; Sept. 7; Sp. p. 1189; Gaz. vol. 146; p. 173.
- Epcar, C. (See Rappaport, E., assignor.)
- Epling, T. W., assignor of one-half to J. W. Alexander, Roanoke, Va. Derailer for railways. No. 916,851; Mar. 30; Sp. p. 6445; Gaz. vol. 140; p. 1151.
- Eppenstein, O., assignor to Firm of C. Zeiss, Jena, Germany. Coincidence-telemeter. No. 940,137; Nov. 16; Sp. p. 3746; Gaz. vol. 148; p. 639.
- Eppenstein, O., assignor to Firm of C. Zeiss, Jena, Germany. Telemeter. No. 943,109; Dec. 14; Sp. p. 2340; Gaz. vol. 149; p. 397.
- Epperson, A. S., Cameron, Tex. Convertible dust-pan. No. 936,990; Oct. 12; Sp. p. 2872; Gaz. vol. 147; p. 490.
- Epperson, H. T., Oakland, Cal. Holding device. No. 922,115; May 18; Sp. p. 4155; Gaz. vol. 142; p. 726.
- Eppler, A., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-turning machine. No. 944,260; Dec. 18; Sp. p. 4768; Gaz. vol. 149; p. 843.
- Eppls, C. C., Southmayd, assignor to Air Blast Gin Company, Dallas, Tex. Cotton-gin. No. 910,653; Jan. 26; Sp. p. 4568; Gaz. vol. 138; p. 831.
- Epstein, S. (See Epstein, W. and S.)
- Epstein, W. and S., New York, N. Y. Skirt. No. 912,834; Feb. 16; Sp. p. 3779; Gaz. vol. 139; p. 664.
- Equitable Meter Company. (See Youngs, F. E., assignor.)
- Erb, E. M., Jersey City, assignor to R. M. Dixon, East Orange, N. J. Adjustable sash-balance. No. 928,644; July 20; Sp. p. 4047; Gaz. vol. 144; p. 705.
- Erb, T. W., Findlay, Ill. Folding crate. No. 933,242; Sept. 7; Sp. p. 487; Gaz. vol. 146; p. 75.
- Erben, H. F. T., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 920,846; May 4; Sp. p. 1521; Gaz. vol. 142; p. 247.
- Erbslow, J. A., Los Angeles, Cal. Making white lead. No. 930,057; Aug. 3; Sp. p. 919; Gaz. vol. 145; p. 147.
- Erdbrügger, G., Eppstein, assignor to H. Seckendorff, Hanover, Germany. Apparatus for producing and multiplying relieves after pictures. No. 925,468; June 22; Sp. p. 4979; Gaz. vol. 143; p. 878.
- Erdman, A. W. (See Lewis, I. N., assignor.)
- Erdmann, E., Halle-on-the-Saale, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Hair-dye. No. 923,635; June 1; Sp. p. 1164; Gaz. vol. 143; p. 179.
- Erdmann, G., Berlin, and C. Fischer, Charlottenburg, Germany, guardian of G. Fischer, an insane person. Device for preventing collisions at sea. No. 914,483; Mar. 9; Sp. p. 1746; Gaz. vol. 140; p. 300.
- Ergler, A. C., Altoona, Pa. Mail-bag catcher. No. 919,561; Apr. 27; Sp. p. 5509; Gaz. vol. 141; p. 962.
- Erhardt, W., Astoria, N. Y. Permutation-lock. No. 931,287; Aug. 17; Sp. p. 3534; Gaz. vol. 145; p. 610.
- Erickson, A. G., Ohio, Ill. Plow. No. 910,803; Jan. 26; Sp. p. 4864; Gaz. vol. 138; p. 878.
- Erickson, C., Tower City, N. D. Wagon-shaft. No. 921,528; May 11; Sp. p. 2942; Gaz. vol. 142; p. 505.
- Erickson, E., Portland, Ore. Toilet-case. No. 911,300; Feb. 2; Sp. p. 550; Gaz. vol. 139; p. 94.
- Erickson, E., Red Oak, Iowa. Cake-press. No. 914,711; Mar. 9; Sp. p. 2227; Gaz. vol. 140; p. 374.
- Erickson, E. S., Milwaukee, assignor to Milwaukee Stamping Co., West Allis, Wis. Bag-fastener. No. 941,016; Nov. 23; Sp. p. 5684; Gaz. vol. 148; p. 960.
- Erickson, F. J., Jackson, Minn. Locking whip-socket. No. 930,366; Aug. 10; Sp. p. 1506; Gaz. vol. 145; p. 274.
- Erickson, F. W. (See Lord and Erickson.)



*Alphabetical list of patentees—Continued.*

- Erickson, F. W., and F. W. Lord, New York, N. Y. Abnormal potential-discharging and arc-disrupting device. No. 932,541; Aug. 31; Sp. p. 6159; Gaz. vol. 145; p. 1068.
- Erickson, F. W., and F. W. Lord, New York, N. Y. Abnormal potential-discharging and arc-disrupting device. No. 933,027; Aug. 31; Sp. p. 7150; Gaz. vol. 145; p. 1228.
- Erickson, J., *et al.* (See Uggeldahl, G. A., assignor.)
- Erickson, J., assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Electrical-impulse-transmitting device. No. 909,382; Jan. 12; Sp. p. 1925; Gaz. vol. 138; p. 343.
- Erickson, J., assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Electrical-impulse-transmitting device. No. 909,383; Jan. 12; Sp. p. 1928; Gaz. vol. 138; p. 344.
- Erickson, J., assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Relay. No. 929,844; Aug. 3; Sp. p. 477; Gaz. vol. 145; p. 76.
- Erickson, K., New York, N. Y. Clothes-drier. No. 911,651; Feb. 9; Sp. p. 1254; Gaz. vol. 139; p. 236.
- Erickson, L. (See Wade, Erickson, and Pusch.)
- Erickson, M. A., Minneapolis, Minn. Double-acting spring-hinge. No. 927,340; July 6; Sp. p. 1283; Gaz. vol. 144; p. 212.
- Erickson, O. F., Berkeley, and R. H. Bradshaw, Oakland, Cal. Outlet-box for electric fixtures. No. 935,097; Sept. 28; Sp. p. 4281; Gaz. vol. 146; p. 765.
- Erickson, P., Whitehall, Mich. Shaper-guard. No. 925,319; June 15; Sp. p. 4686; Gaz. vol. 143; p. 800.
- Erickson, P. E., Port Chester, N. Y. Hose-clamp. No. 912,097; Feb. 9; Sp. p. 2200; Gaz. vol. 139; p. 380.
- Ericson, C. J., Salt Lake City, Utah. Hat and coat hook. No. 910,051; Jan. 19; Sp. p. 3258; Gaz. vol. 138; p. 601.
- Ericson, J. M., Salt Lake City, Utah. Boiler-furnace. No. 916,542; Mar. 30; Sp. p. 5882; Gaz. vol. 140; p. 1055.
- Ericson, O. E. V., Gottenborg, Sweden. Oil-gas cooking-stove. No. 938,747; Nov. 2; Sp. p. 640; Gaz. vol. 148; p. 102.
- Ericson, P. V., New York, N. Y. Game. No. 943,343; Dec. 14; Sp. p. 2826; Gaz. vol. 149; p. 475.
- Ericsson, A. J., Stockund, Sweden. Machine for grinding solid bodies. No. 938,466; Nov. 2; Sp. p. 27; Gaz. vol. 148; p. 7.
- Ericsson, A. J., assignor to Aktiebolaget Separator, Stockholm, Sweden. Centrifugal machine. No. 911,652; Feb. 9; Sp. p. 1256; Gaz. vol. 139; p. 236.
- Ericsson, A. J., Stockund, Stockholm, assignor to Aktiebolaget Separator, Stockholm, Sweden. Centrifugal machine for separating solids from liquids. No. 921,814; May 18; Sp. p. 3544; Gaz. vol. 142; p. 629.
- Ericsson, A. J., Stockund, Stockholm, assignor to Aktiebolaget Separator, Stockholm, Sweden. Continuous centrifugal straining apparatus. No. 939,993; Nov. 16; Sp. p. 3406; Gaz. vol. 148; p. 587.
- Erie City Iron Works. (See Durban, T. E., assignor.)
- Erie City Iron Works. (See Jones, J. H., assignor.)
- Erie City Manufacturing Company. (See Hutchinson, C. M., assignor.)
- Erikson, J., and G. R. Wikander, New York, N. Y. Miter-gage. No. 939,405; Nov. 9; Sp. p. 2142; Gaz. vol. 148; p. 355.
- Erikson, L., Malden, Mass. Adjustable support for electric lamps. No. 941,683; Nov. 30; Sp. p. 7520; Gaz. vol. 148; p. 1265.
- Erixon, J. N., Concord, Ill. Mold. No. 939,819; Nov. 9; Sp. p. 3019; Gaz. vol. 148; p. 497.
- Erlandsson, H. L., Valparaiso, Ind. Lamp-holder. No. 921,815; May 18; Sp. p. 3545; Gaz. vol. 142; p. 629.
- Erlanger, M. S., Baltimore, Md. Garment-supporter. No. 924,974; June 15; Sp. p. 4038; Gaz. vol. 143; p. 687.
- Erlanger, M. S., Baltimore, Md. Adjustable waistband for garments. No. 942,628; Dec. 7; Sp. p. 1244; Gaz. vol. 149; p. 203.
- Erlanger, M. S., Baltimore, Md., assignor to B. V. D. Company, New York, N. Y. Means for adjusting the waistbands of garments. No. 910,366; Jan. 19; Sp. p. 3950; Gaz. vol. 138; p. 716.
- Erlar, K. W., Münchenbernsdorf, Germany. Multicolor-printing machine for fabrics. No. 917,030; Apr. 6; Sp. p. 143; Gaz. vol. 141; p. 27.
- Erlar, W., Münchenbernsdorf, Germany. Dyeing-machine. No. 913,274; Feb. 23; Sp. p. 4644; Gaz. vol. 139; p. 833.
- Erlwein, C. (See Krug, H., assignor.)
- Erlinger, G., Jr., Plank, Kämtal, Austria-Hungary. Cleaning and sorting device for threshing-machines. No. 937,783; Oct. 26; Sp. p. 4564; Gaz. vol. 147; p. 790.
- Ernel, G., Liege, Belgium. Riveting-machine. No. 912,297; Feb. 16; Sp. p. 2626; Gaz. vol. 139; p. 483.
- Ermoold, E., New York, N. Y. Bottle-labeling machine. No. 923,501; June 1; Sp. p. 860; Gaz. vol. 143; p. 131.
- Ermoold, G., Elizabeth, N. J. Tapping-die. No. 913,001; Feb. 23; Sp. p. 4092; Gaz. vol. 139; p. 742.
- Ernest, G. R., Old Forge, N. Y. Tray attachment. No. 936,104; Oct. 5; Sp. p. 1062; Gaz. vol. 147; p. 162.
- Ernest, R., New York, N. Y. Shampoo-shield. No. 926,555; June 29; Sp. p. 7191; Gaz. vol. 143; p. 1271.
- Ernst, A., Pittsburg, Pa., assignor to Coal and Coke By-Products Company. Centrifugal dry coal-separator. No. 942,251; Dec. 7; Sp. p. 477; Gaz. vol. 149; p. 74.
- Ernst, H., Chicago, Ill. Hinge. No. 918,135; Apr. 13; Sp. p. 2391; Gaz. vol. 141; p. 428.
- Ernst, J. M., Brooklyn, N. Y. Folding step for subway-cars. No. 919,333; Apr. 27; Sp. p. 5100; Gaz. vol. 141; p. 884.
- Erret, J., Cleveland, Ohio. Front or platform gear for vehicles. No. 922,869; May 25; Sp. p. 5744; Gaz. vol. 142; p. 1001.
- Errington, F. A., New York, N. Y. Automatically-opening stud-setter. No. 927,028; July 6; Sp. p. 680; Gaz. vol. 144; p. 110.
- Errington, F. A., New York, N. Y. Automatically opening and closing die. No. 927,029; July 6; Sp. p. 684; Gaz. vol. 144; p. 110.
- Erskine, A. L., Charleston, W. Va. Combined match-safe and cigar-perforator. No. 929,414; July 27; Sp. p. 5637; Gaz. vol. 144; p. 989.
- Ertel, J., Newark, N. J. Wrench. No. 911,814; Feb. 9; Sp. p. 1549; Gaz. vol. 139; p. 288.
- Ertl, L. J., Nebraska City, Nebr. Lawn-mower. No. 930,058; Aug. 3; Sp. p. 921; Gaz. vol. 145; p. 148.
- Erwin, J. P. (See Olson, A. G., assignor.)
- Erway, J. B., Pisgah, Iowa. Automatic dropper for corn-planters. No. 925,469; June 22; Sp. p. 4981; Gaz. vol. 143; p. 879.
- Erwin, A. R., assignor to one-half to W. D. and J. B. Burks, Pilot Point, Tex. Adjustable trace-connector. No. 908,984; Jan. 5; Sp. p. 1147; Gaz. vol. 138; p. 181.
- Erwin, F. M., Kinsley, Kans. Hay-stacker. No. 941,238; Nov. 23; Sp. p. 6166; Gaz. vol. 148; p. 1034.
- Erwin, G., Philadelphia, Pa. Shutter fastener or bower. No. 938,748; Nov. 2; Sp. p. 642; Gaz. vol. 148; p. 102.
- Erwin, G. B. M., Johnstown, Pa. Rail. No. 914,648; Mar. 9; Sp. p. 2073; Gaz. vol. 140; p. 353.
- Erwin, H., *et al.* (See Goyette, F. W., assignor.)
- Erwin, J. B., Milwaukee, Wis. Automatic fire-extinguishing system. No. 912,370; Feb. 16; Sp. p. 2777; Gaz. vol. 139; p. 506.
- Erwin, R. W., St. Louis, Mo. Making acetate of lime. No. 927,135; July 6; Sp. p. 907; Gaz. vol. 144; p. 146.
- Erwin, T. B., and H. C. Meyer, Britt, Iowa. Fire-escape. No. 920,296; May 4; Sp. p. 439; Gaz. vol. 142; p. 67.
- Escales, R., and M. Novak, Munich, Germany. Manufacture of explosives. No. 915,165; Mar. 16; Sp. p. 3131; Gaz. vol. 140; p. 549.
- Eschbach, W. H., Wabash, Ind. Detachable hinge. No. 920,936; May 11; Sp. p. 1729; Gaz. vol. 142; p. 307.
- Eschellmann, G., and A. Harmuth, St. Petersburg, Russia, assignors to General Chemical Company, New York, N. Y. Making sulfur trioxide. No. 937,147; Oct. 19; Sp. p. 3215; Gaz. vol. 147; p. 562.
- Eschellmann, G., and A. Harmuth, St. Petersburg, Russia, assignors to General Chemical Company, New York, N. Y. Apparatus for making sulfur trioxide. No. 937,148; Oct. 19; Sp. p. 3216; Gaz. vol. 147; p. 563.
- Eschen, E. B. Von. (See Eschen, E. L. and E. B. Von.)
- Eschen, E. L. and E. B. Von, Kirksville, Mo. Envelop. No. 917,383; Apr. 6; Sp. p. 863; Gaz. vol. 141; p. 148.
- Eschner, L., Philadelphia, Pa. Closure for bottles and jars. No. 914,252; Mar. 2; Sp. p. 1280; Gaz. vol. 140; p. 198.
- Eschner, L., Philadelphia, Pa. Receptacle closure or retainer. No. 914,253; Mar. 2; Sp. p. 1281; Gaz. vol. 140; p. 199.
- Esco, J. A., Stone Mountain, assignor to A. K. Jones and J. T. Freeman, Ingleside, Ga. Shaft-hanger. No. 935,593; Sept. 28; Sp. p. 5281; Gaz. vol. 146; p. 926.
- Escubos, A. F., Barcelona, Spain. Means for cleaning the drawing-rolls of roving-frames, &c. No. 932,977; Aug. 31; Sp. p. 7042; Gaz. vol. 145; p. 1211.
- Escuder, J., Barcelona, Spain. Spittoon. No. 943,527; Dec. 14; Sp. p. 3206; Gaz. vol. 149; p. 540.
- Esdorn, J. H., New York, N. Y. Match-box holder. No. 920,297; May 4; Sp. p. 441; Gaz. vol. 142; p. 68.
- Eshelman, B. S., assignor to G. V. Krichbaum, Ashland, Ohio. Making inner liners for tires. No. 944,722; Dec. 28; Sp. p. 5801; Gaz. vol. 149; p. 1003.
- Eshelman, E. H., Birmingham, Ala. Sanitary laundry-truck. No. 920,847; May 4; Sp. p. 1522; Gaz. vol. 142; p. 247.
- Eskridge, P. W. (See Callahan and Eskridge.)
- Espe, A. O., assignor to Universal Tractor Company, Crookston, Minn. Traction-engine. No. 944,236; Dec. 21; Sp. p. 4707; Gaz. vol. 149; p. 807.
- Espen, F. F., *et al.* (See Lucas, W. H., assignor.)
- Espen, J. Jr., *et al.* (See Lucas, W. H., assignor.)
- Esping, H. F. W., Nässjö, Sweden. Means for raising liquids. No. 922,870; May 25; Sp. p. 5745; Gaz. vol. 142; p. 1001.
- Espien, A., Liverpool, England. Fire-bar. No. 933,967; Sept. 14; Sp. p. 2049; Gaz. vol. 146; p. 337.
- Esposito, A., Providence, R. I. Fuel-igniter. No. 934,512; Sept. 21; Sp. p. 3104; Gaz. vol. 146; p. 541.
- Esser, J., Chester, Pa. Reversing mechanism. No. 919,562; Apr. 27; Sp. p. 5601; Gaz. vol. 141; p. 962.
- Essex Company. (See Randolph, L. M., assignor.)
- Essex, G. B., Detroit, Mich. Lubricator. No. 930,462; Aug. 10; Sp. p. 1688; Gaz. vol. 145; p. 305.

*Alphabetical list of patentees—Continued.*

- Essick, W. F., assignor of one-half to A. Newman and one-fourth to S. W. Hall, Philadelphia, Pa. Device for size-marking boot and shoe soles. No. 922,116; May 18; Sp. p. 4157; Gaz. vol. 142; p. 727.
- Essig, O. A., Canton, assignor to Riester & Thesmacher Company, Cleveland, Ohio. Automatic sash-lock for fireproof windows. No. 920,444; May 4; Sp. p. 719; Gaz. vol. 142; p. 114.
- Essig, O. A., Canton, assignor to Riester & Thesmacher Company, Cleveland, Ohio. Adjustable center for window-sash. No. 920,445; May 4; Sp. p. 721; Gaz. vol. 142; p. 115.
- Essig, R. R., assignor to Shanafelt Manufacturing Company, Canton, Ohio. Toy. No. 938,417; Oct. 26; Sp. p. 5928; Gaz. vol. 147; p. 1005.
- Esmueller Mill Furnishing Company. (See Watkins, J. B., assignor.)
- Estabrook, A. F., and G. O. Currier, Leicester, Mass. Apparatus for making card-clothing. No. 937,058; Oct. 19; Sp. p. 3029; Gaz. vol. 147; p. 532.
- Estabrook, C. E., Springport, Ind. Draft mechanism. No. 924,328; June 8; Sp. p. 2694; Gaz. vol. 143; p. 439.
- Estabrook, S. A., Jr., Ponchatoula, La. Plow. No. 932,256; Aug. 24; Sp. p. 5579; Gaz. vol. 145; p. 950.
- Estate Stove Company. (See Kahn, L., assignor.)
- Estell, J. (See Predmore and Estell.)
- Esterling, W. M., assignor of one-half to G. G. Prentiss, Detroit, Mich. Reversible steam-turbine. No. 933,028; Aug. 31; Sp. p. 7151; Gaz. vol. 145; p. 1228.
- Estes, J. W., Oklahoma, Okla. Permutation-lock. No. 933,968; Sept. 14; Sp. p. 2050; Gaz. vol. 146; p. 337.
- Estes, L. V., New York, assignor to Cluett, Peabody & Company, Troy, N. Y. Pasting-machine. No. 921,386; May 11; Sp. p. 2666; Gaz. vol. 142; p. 459.
- Estes, R. E., Midland, Tex. Automatic cut-off for cisterns. No. 914,936; Mar. 9; Sp. p. 2667; Gaz. vol. 140; p. 447.
- Estes, W. B., Atlanta, assignor to T. J. Lochridge, East End, and G. W. Walker, Atlanta, Ga. Horse-collar-stuffing machine. No. 916,543; Mar. 30; Sp. p. 5884; Gaz. vol. 140; p. 1056.
- Estes, W. J., Pasco, Wash. Wire-stretcher. No. 915,756; Mar. 23; Sp. p. 4359; Gaz. vol. 140; p. 774.
- Estes, W. N., *et al.* (See Mercer, J. W., assignor.)
- Estey Organ Company. (See Haskell, W. E., assignor.)
- Estill, E. V., Roswell, N. Mex. Ter. Smoke and dust arrester for railways. No. 909,384; Jan. 12; Sp. p. 1930; Gaz. vol. 138; p. 344.
- Estis, W. B., Coffeetown, assignor of one-fourth to M. A. Sharp and one-fourth to J. Sharp, Cunningham, Ala. Agricultural implement. No. 939,820; Nov. 9; Sp. p. 3020; Gaz. vol. 148; p. 498.
- Esty Sprinkler Company. (See Esty, W., assignor.)
- Esty, W., assignor to Esty Sprinkler Company, Laconia, N. H. Automatic stationary fire-extinguisher. No. 931,190; Aug. 17; Sp. p. 3304; Gaz. vol. 145; p. 575.
- Etablissements de Dion-Bouton (Société Anonyme). (See Dion and Bouton, assignors.)
- Ethell, M. R., Bloomington, Ill. Attachment for drawing-boards. No. 932,690; Aug. 31; Sp. p. 6492; Gaz. vol. 145; p. 1118.
- Etheridge, H. (See Bryan and Etheridge.)
- Etheridge, H., Zellenople, Pa. Feed-water heater. No. 938,134; Oct. 26; Sp. p. 5303; Gaz. vol. 147; p. 907.
- Etherington, J. B. (See Kenyon, D. M., assignor.)
- Ethridge, F. N., assignor of one-half to C. F. Spiller, Rumford, Me. Expansible roll. No. 934,964; Sept. 21; Sp. p. 3995; Gaz. vol. 146; p. 694.
- Etienne, E., and J. Dubé, Sudbury, Ontario, Canada; said Etienne assignor to said Dubé. Boring horns. No. 930,747; Aug. 10; Sp. p. 2312; Gaz. vol. 145; p. 401.
- Etnier, C. E., York, Pa. Turbine. No. 921,529; May 11; Sp. p. 2943; Gaz. vol. 142; p. 505.
- Etot, J., Mer, France. Cushion and mattress. No. 943,923; Dec. 21; Sp. p. 4071; Gaz. vol. 149; p. 706.
- Etsler, G. A., Standish, Mich. Car-fender. No. 938,994; Nov. 2; Sp. p. 1179; Gaz. vol. 148; p. 188.
- Ette, C. G., assignor to Ette Investment Company, St. Louis, Mo. Trolley-wire support or hanger. No. 909,569; Jan. 12; Sp. p. 2297; Gaz. vol. 138; p. 407.
- Ette, C. G., assignor to Ette Investment Company, St. Louis, Mo. Trolley-wire support. No. 909,993; Jan. 19; Sp. p. 3151; Gaz. vol. 138; p. 582.
- Ette, C. G., assignor to Ette Investment Company, St. Louis, Mo. Protecting-sleeve for posts and poles. No. 913,482; Feb. 23; Sp. p. 5055; Gaz. vol. 139; p. 903.
- Ette, C. G., assignor to Ette Investment Company, St. Louis, Mo. Bolt and nut. No. 919,840; Apr. 27; Sp. p. 6190; Gaz. vol. 141; p. 1056.
- Ette, C. G., assignor to Ette Investment Company, St. Louis, Mo. Cast-metal axle for vehicles. No. 922,684; May 25; Sp. p. 5332; Gaz. vol. 142; p. 940.
- Ette Investment Company. (See Ette, C. G.)
- Etter, E. E., Turtle Creek, Pa. Nursing-bottle. No. 921,387; May 11; Sp. p. 2670; Gaz. vol. 142; p. 459.
- Etter, S., La Fayette Ind. Churn. No. 932,455; Aug. 31; Sp. p. 5958; Gaz. vol. 145; p. 1039.
- Ettinger, S., Berlin, Germany. Umbrella adapted for use as a boat. No. 927,341; July 6; Sp. p. 1285; Gaz. vol. 144; p. 212.
- Etwell, T., Woodstock, assignor of one-half to F. Brock, Toronto, Ontario, Canada. Pipe-organ. No. 930,276; Aug. 3; Sp. p. 1325; Gaz. vol. 145; p. 219.
- Etzell, W. F., Lowell, Mass. Gas-meter. No. 919,841; Apr. 27; Sp. p. 6192; Gaz. vol. 141; p. 1056.
- Eubank, R. B., Jr., Kansas City, Mo., assignor to Bicycle Skate & Mfg. Co. Roller-skate. No. 920,848; May 4; Sp. p. 1523; Gaz. vol. 142; p. 247.
- Eubank, R. B., Jr., Kansas City, Mo., assignor to Bicycle Skate and Manufacturing Co. Skate. No. 926,646; June 29; Sp. p. 3737; Gaz. vol. 143; p. 1301.
- Eubanks, S. D. (See Freeman and Eubanks.)
- Euchenhofer, E. E., Dayton, Ohio. Cushion-tire for vehicles. No. 941,508; Nov. 30; Sp. p. 6757; Gaz. vol. 148; p. 1144.
- Eureka Digger Co. (See Hardy, T., assignor.)
- Eureka Reverse Gear Company. (See Johnson, F. G., assignor.)
- Eureka Trolley Harp Co. (See Hancock, F. E., assignor.)
- Eureka Vibrator Co. (See Stecker, A. J., assignor.)
- Evangelista, V., Philadelphia, Pa. Laying out patterns. No. 927,845; July 13; Sp. p. 2385; Gaz. vol. 144; p. 408.
- Evans, A. H., Portland, Me. Knockdown cabinet. No. 920,937; May 11; Sp. p. 1730; Gaz. vol. 142; p. 307.
- Evans, C. A., Ohester, Pa. Toy and game trap-shooter. No. 941,864; Nov. 30; Sp. p. 7522; Gaz. vol. 148; p. 1265.
- Evans, C. E., administratrix. (See Evans, S. J.)
- Evans, C. E., Weed, Cal. Folding crate. No. 925,628; June 22; Sp. p. 5296; Gaz. vol. 143; p. 931.
- Evans, C. E., Council Bluffs, Iowa. Pneumatic-tire armor. No. 928,433; July 20; Sp. p. 3600; Gaz. vol. 144; p. 637.
- Evans, C. E., and A. A. Heisler, Council Bluffs, Iowa. Fishing device. No. 934,150; Sept. 14; Sp. p. 2420; Gaz. vol. 146; p. 397.
- Evans, C. M. (See Stant, I. O., assignor.)
- Evans, C. M., assignor to J. Evans, Springfield, Mass. Head-frame for railway-car bodies. No. 930,277; Aug. 3; Sp. p. 1329; Gaz. vol. 145; p. 220.
- Evans, C. M., assignor to J. Evans, Springfield, Mass. Draw-bar mechanism for railway-cars. No. 930,278; Aug. 3; Sp. p. 1331; Gaz. vol. 145; p. 220.
- Evans, C. S., Norfolk, Nebr. Printing-press. No. 927,030; July 6; Sp. p. 689; Gaz. vol. 144; p. 111.
- Evans-Coppins & Starks Company. (See Coppins, S. R., assignor.)
- Evans-Cross, G. W., Balham, England. Calculating appliance. No. 913,483; Feb. 23; Sp. p. 5056; Gaz. vol. 139; p. 903.
- Evans, D. C., and O. Q. Patterson, Uniontown, Pa. Indicator. No. 930,279; Aug. 3; Sp. p. 1332; Gaz. vol. 145; p. 220.
- Evans, D. J. (See Andresen, H. P., assignor.)
- Evans, D. R., Florence, Ala. Tire-setting machine. No. 936,435; Oct. 12; Sp. p. 1775; Gaz. vol. 147; p. 295.
- Evans, E. (See Parry and Evans.)
- Evans, E., assignor to Bergmann-Elektricitäts-Werke-Aktiengesellschaft, Berlin, Germany. Device for vending electricity. No. 914,398; Mar. 9; Sp. p. 1591; Gaz. vol. 140; p. 271.
- Evans, E., assignor to Bergmann Elektricitäts Werke Aktiengesellschaft, Berlin, Germany. Controlling mechanism for electricity-meters. No. 934,902; Sept. 21; Sp. p. 3866; Gaz. vol. 146; p. 671.
- Evans, E. E., Branchport, N. Y. Steering device for vehicles. No. 911,709; Feb. 9; Sp. p. 1369; Gaz. vol. 139; p. 255.
- Evans, F., Minneapolis, Minn. Ice-scraper. No. 920,446; May 4; Sp. p. 723; Gaz. vol. 142; p. 115.
- Evans, F. L., Warsaw, Ind. Rail-joint. No. 916,686; Mar. 30; Sp. p. 6147; Gaz. vol. 140; p. 1102.
- Evans, F. M., Cairnes, Ky. Automatic brake to prevent cars from leaving tracks. No. 921,388; May 11; Sp. p. 2671; Gaz. vol. 142; p. 459.
- Evans, F. S. (See Dozier, E. C., assignor.)
- Evans, G., Stroud Green, England. Preparing red oxid of iron and zinc sulfate. No. 914,649; Mar. 9; Sp. p. 2074; Gaz. vol. 140; p. 353.
- Evans, G. B., Winthrop, and T. E. Cherry, Revere, assignors to C. F. Baker, Boston, Mass. Nailing-machine. No. 928,645; July 20; Sp. p. 4048; Gaz. vol. 144; p. 705.
- Evans, G. R., Berkeley, Cal. Tar and debris trap. No. 943,628; Dec. 14; Sp. p. 3448; Gaz. vol. 149; p. 574.
- Evans, H., Bryn Mawr, Pa. Feed-water regulator. No. 932,007; Aug. 24; Sp. p. 5076; Gaz. vol. 145; p. 868.



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- Evans, H. A., U. S. Navy. Melting pig-iron and steel. No. 912,298; Feb. 16; Sp. p. 2628; Gaz. vol. 139; p. 483.
- Evans, H. O., Philadelphia, Pa. Holder for machine-tools. No. 938,995; Nov. 2; Sp. p. 1182; Gaz. vol. 148; p. 188.
- Evans, H. O., Philadelphia, Pa. Automatic chuck. No. 938,996; Nov. 2; Sp. p. 1183; Gaz. vol. 148; p. 189.
- Evans, H. O., Philadelphia, Pa. Automatic reversing mechanism. No. 938,997; Nov. 2; Sp. p. 1185; Gaz. vol. 148; p. 189.
- Evans, J. (See Evans, C. M., assignor.)
- Evans, J. A., assignor to A. Roesch, Columbus, Ohio. Door-check. No. 944,723; Dec. 28; Sp. p. 5803; Gaz. vol. 149; p. 1004.
- Evans, J. B., Selma, Ala. Apparatus for storing and feeding hydrocarbon liquids. No. 916,130; Mar. 23; Sp. p. 5047; Gaz. vol. 140; p. 894.
- Evans, J. B., Selma, Ala. Apparatus for storing and dispensing hydrocarbon liquids. No. 916,131; Mar. 23; Sp. p. 5049; Gaz. vol. 140; p. 895.
- Evans, J. B., Selma, Ala. Apparatus for dispensing hydrocarbon liquids. No. 916,132; Mar. 23; Sp. p. 5050; Gaz. vol. 140; p. 895.
- Evans, J. C., Youngstown, Ohio. Valve. No. 941,314; Nov. 23; Sp. p. 6326; Gaz. vol. 148; p. 1057.
- Evans, J. P., and R. P. Akins, Denver, Colo. Concentrator. No. 932,691; Aug. 31; Sp. p. 6494; Gaz. vol. 145; p. 1119.
- Evans, J. W., Cargo Fleet, Middlesbrough, England. Method and apparatus for cleansing articles of refuse tinware and for the recovery of solder therefrom. No. 935,477; Sept. 28; Sp. p. 5010; Gaz. vol. 146; p. 886.
- Evans, J. W., Purdon, assignor of one-half to J. B. Banks, Barry, Tex. Boll-weevil exterminator. No. 931,401; Aug. 17; Sp. p. 3767; Gaz. vol. 145; p. 650.
- Evans, K., Eureka, Cal. Folding bed. No. 930,540; Aug. 10; Sp. p. 1888; Gaz. vol. 145; p. 333.
- Evans, K. S., Baltimore, Md. Automatic check and release mechanism for elevator-doors. No. 910,654; Jan. 26; Sp. p. 4569; Gaz. vol. 138; p. 831.
- Evans, L. J., Kirkwood, assignor of one-fourth to C. Tyler and three-eighths to J. M. Davidge, Binghamton, N. Y. Mail-bag-delivery apparatus for cars. No. 913,715; Mar. 2; Sp. p. 80; Gaz. vol. 140; p. 15.
- Evans, M. H., Joplin, Mo. Combination sterilizer and irrigator. No. 912,452; Feb. 16; Sp. p. 2945; Gaz. vol. 139; p. 535.
- Evans, N., Homerville, Ga. Attachment for rocking-chairs. No. 920,298; May 4; Sp. p. 442; Gaz. vol. 142; p. 68.
- Evans, O. C., Lowell, Mass. Combined school seat and desk. No. 908,653; Jan. 5; Sp. p. 483; Gaz. vol. 138; p. 75.
- Evans, O. S., Farmington, N. Mex. Ter. Mainspring-winder. No. 932,257; Aug. 24; Sp. p. 5580; Gaz. vol. 145; p. 950.
- Evans, P., Philadelphia, Pa. Change-speed gear for motors. No. 923,636; June 1; Sp. p. 1166; Gaz. vol. 143; p. 179.
- Evans, P., Philadelphia, Pa. Change-speed gear. No. 931,288; Aug. 17; Sp. p. 3536; Gaz. vol. 145; p. 610.
- Evans, P., Philadelphia, Pa. Change-speed gear. No. 931,289; Aug. 17; Sp. p. 3539; Gaz. vol. 145; p. 611.
- Evans, P., Philadelphia, Pa. Tire-case. No. 935,647; Oct. 5; Sp. p. 41; Gaz. vol. 147; p. 9.
- Evans, P., Philadelphia, Pa. Friction-clutch. No. 940,679; Nov. 23; Sp. p. 4964; Gaz. vol. 148; p. 847.
- Evans, R. J., assignor to Franklin Manufacturing Company, Franklin, Pa. Smoke-jack for railway engine-houses. No. 920,041; Apr. 27; Sp. p. 6595; Gaz. vol. 141; p. 1122.
- Evans, R. N. (See Saul and Evans.)
- Evans, S., et al. (See Horstmann, H. C., assignor.)
- Evans, S. F., Minneapolis, Minn. Elevator-leg drive. No. 915,947; Mar. 23; Sp. p. 4703; Gaz. vol. 140; p. 835.
- Evans, S. J. (See Dennis, Evans, and Murdock.)
- Evans, S. J., deceased, Roanoke, Va.; C. E. Evans, administratrix. Starting apparatus for automobiles and the like. No. 917,572; Apr. 6; Sp. p. 1190; Gaz. vol. 141; p. 208.
- Evans, S. J., deceased; C. E. Evans, administratrix, assignor to C. F. Byrne, Roanoke, Va. Inking mechanism for stamp-canceling machines. No. 909,071; Jan. 5; Sp. p. 1368; Gaz. vol. 138; p. 210.
- Evans, S. M., administratrix. (See Evans and Taylor.)
- Evans Stamping & Plating Company. (See Tuttle, H. A., assignor.)
- Evans, T. C., assignor of one-half to P. W. Worth, Kankakee, Ill. Furnace-pan. No. 912,980; Feb. 16; Sp. p. 4041; Gaz. vol. 139; p. 709.
- Evans, T. D., et al. (See Wyatt, G. R., assignor.)
- Evans, W. C., Elizabeth, N. H. Camera-tripod. No. 916,286; Mar. 23; Sp. p. 5330; Gaz. vol. 140; p. 944.
- Evans, W. C., Exeter, N. H., and E. H. Taylor, Lynn, Mass., assignors to Automatic Heel Trimming and Burnishing Machine Company, Exeter, N. H. Jack for boot and shoe machinery. No. 936,242; Oct. 5; Sp. p. 1318; Gaz. vol. 147; p. 202.
- Evans, W. C., deceased, and E. H. Taylor, Hyde Park, Mass.; S. M. Evans, Exeter, N. H., administratrix; C. M. Davis, administratrix de bonis non, and said Taylor assignors to Automatic Heel Trimming and Burnishing Machine Company, Exeter, N. H. Machine for finishing the heels of boots and shoes. No. 916,924; Mar. 30; Sp. p. 6597; Gaz. vol. 140; p. 1176.
- Evans, W. C., deceased, (C. M. Davis, administratrix,) and E. H. Taylor, Hyde Park, Mass., assignors to Automatic Heel Trimming and Burnishing Machine Company, Exeter, N. H. Heel-breasting mechanism. No. 923,782; June 1; Sp. p. 1513; Gaz. vol. 143; p. 228.
- Evans, W. C. D., assignor of one-half to W. S. Keen, Whittier, Cal. Tongue-support. No. 940,960; Nov. 23; Sp. p. 5557; Gaz. vol. 148; p. 941.
- Evans, W. D., and J. T. Marshall, Eupora, Miss. Dispensing-machine for post-cards and the like. No. 921,389; May 11; Sp. p. 2672; Gaz. vol. 142; p. 459.
- Evans, W. E., Manton, R. I. Spool. No. 936,526; Oct. 12; Sp. p. 1963; Gaz. vol. 147; p. 324.
- Evans, W. H., Buffalo, N. Y. Operating mechanism for doors. No. 918,984; Apr. 20; Sp. p. 4223; Gaz. vol. 141; p. 737.
- Evans, W. J., Aspinwall, Pa. Apparatus for casting ingots or the like. No. 906,570; Jan. 12; Sp. p. 2299; Gaz. vol. 138; p. 407.
- Evans, W. L., Jr., Washington, Ind. Construction of doors. No. 937,430; Oct. 19; Sp. p. 3835; Gaz. vol. 147; p. 653.
- Evans, W. P., assignor of one-half to J. O. Carter, Meadow Grove, Nebr. Paper-hanging machine. No. 914,254; Mar. 2; Sp. p. 1284; Gaz. vol. 140; p. 199.
- Evans, W. R., San Francisco, Cal. Color-whirligig. No. 911,582; Feb. 9; Sp. p. 1091; Gaz. vol. 139; p. 213.
- Evans, W. R., San Francisco, Cal. Hat-holder. No. 938,998; Nov. 2; Sp. p. 1186; Gaz. vol. 148; p. 189.
- Eveland, S. S. (See Beemer, F., assignor.)
- Eveland, S. S., Philadelphia, Pa. Ball-bearing for vertical shafts. No. 935,648; Oct. 5; Sp. p. 44; Gaz. vol. 147; p. 9.
- Eveleth, C. E., Schenectady, N. Y., assignor to General Electric Company. Insulator for high-tension transmission-lines. No. 917,031; Apr. 6; Sp. p. 144; Gaz. vol. 141; p. 28.
- Eveleth, C. E., Schenectady, N. Y., assignor to General Electric Company. Submerged fuse. No. 919,563; Apr. 27; Sp. p. 5604; Gaz. vol. 141; p. 963.
- Eveleth, C. M., River Forest, Ill. Shade-roller. No. 915,166; Mar. 16; Sp. p. 3132; Gaz. vol. 140; p. 549.
- Evensden, R. E., Manchester, England. Circular loom. No. 944,421; Dec. 28; Sp. p. 5127; Gaz. vol. 149; p. 900.
- Evans, C. S., assignor to T. R. Moore, Walden, N. Y. Pocket-knife and the like. No. 916,426; Mar. 30; Sp. p. 5612; Gaz. vol. 140; p. 1017.
- Evensad, A., Lakota, N. D. Mold for molding concrete blocks. No. 913,116; Feb. 23; Sp. p. 4320; Gaz. vol. 139; p. 781.
- Evered, W. M., Duluth, Minn. Valve-gear for steam-engines. No. 944,724; Dec. 28; Sp. p. 5805; Gaz. vol. 149; p. 1004.
- Everest, A. R., Lynn, Mass., assignor to General Electric Company. Condenser. No. 925,165; June 15; Sp. p. 4405; Gaz. vol. 143; p. 752.
- Everett, C. W., and E. Aschcraft, Dresden, Ohio. Cement building-block. No. 916,687; Mar. 30; Sp. p. 6147; Gaz. vol. 140; p. 1102.
- Everett, E. A., assignor of one-half to J. C. Mock and J. J. Ross, Detroit, Mich. Circuit-breaker for automatic signaling apparatus. No. 908,654; Jan. 5; Sp. p. 484; Gaz. vol. 138; p. 76.
- Everett, E. B., Hughes Springs, Tex. Clothes-pin. No. 917,273; Apr. 6; Sp. p. 647; Gaz. vol. 141; p. 110.
- Everett, E. C., assignor to R. E. Dietz Company, New York, N. Y. Search-light mounting. No. 930,059; Aug. 3; Sp. p. 922; Gaz. vol. 145; p. 148.
- Everett, F., San Jose, Cal. Gearing for motor-vehicles. No. 919,564; Apr. 27; Sp. p. 5605; Gaz. vol. 141; p. 963.
- Everett, J. T., Basin, Wyo. Pipe-clamp or coupling-collar. No. 921,816; May 18; Sp. p. 3546; Gaz. vol. 142; p. 629.
- Everitt, W. E., Buffalo, N. Y. Horseshoe-calk-sharpening machine. No. 910,464; Jan. 19; Sp. p. 4152; Gaz. vol. 138; p. 745.
- Evers, J. H., assignor of one-half to E. Friedman, New York, N. Y. Receptacle for matches. No. 911,482; Feb. 2; Sp. p. 862; Gaz. vol. 139; p. 152.
- Evert, J. F., and F. Ryder, Mendon, Mich. Mold. No. 918,026; Apr. 13; Sp. p. 2176; Gaz. vol. 141; p. 390.
- Every, H. A., assignor to Alfred E. Haines Company, Boston, Mass. Insulated tool for marking with metallic leaf. No. 918,833; Apr. 20; Sp. p. 3895; Gaz. vol. 141; p. 687.
- Every, H. A., assignor to Alfred E. Haines Company, Boston, Mass. Hat holder and support. No. 926,397; June 29; Sp. p. 6917; Gaz. vol. 143; p. 1218.
- Evrett, A. L., and J. C. McQuerry, North Fort Worth, Tex. Match-box. No. 921,683; May 18; Sp. p. 3290; Gaz. vol. 142; p. 585.
- Ewart, J., Somerville, assignor of one-half to M. F. McLaughlin, Wakefield, Mass. Hydrant. No. 915,422; Mar. 16; Sp. p. 3638; Gaz. vol. 140; p. 633.
- Ewart, R. B., New York, N. Y., assignor of one-half to B. A. Seitz, Kansas City, Mo. Shock-absorber for automobiles and the like. No. 943,774; Dec. 21; Sp. p. 3751; Gaz. vol. 149; p. 653.
- Ewart, W. I. (See Shoemaker, A. H., assignor.)
- Ewel, E., Grand Island, and S. L. Clement, North Loup, Nebr. Wagon-dump. No. 940,447; Nov. 16; Sp. p. 4459; Gaz. vol. 148; p. 745.
- Ewen, E. C. (See Kramer, F. R., assignor.)
- Ewen, E. C. (See Spencer, J. M., assignor.)
- Ewen, M. F., and G. H. Tomlinson, Chicago, Ill. Producing from ligno-cellulose fermentable sugar. No. 938,308; Oct. 26; Sp. p. 5682; Gaz. vol. 147; p. 967.

*Alphabetical list of patentees—Continued.*

- Ewer, G. A., Cogswell, N. D. Fly-shield. No. 929,415; July 27; Sp. p. 5638; Gaz. vol. 144; p. 989.
- Ewer, T. E., Fort Des Moines, Iowa. Mowing-machine. No. 921,210; May 11; Sp. p. 2280; Gaz. vol. 142; p. 401.
- Ewering, A. W. M., assignor of one-half to H. Dülfer, Cassel, Germany. Time-recorder. No. 910,517; Jan. 26; Sp. p. 4280; Gaz. vol. 138; p. 785.
- Ewers, E. F., Phelps, Mich. Moving-machine. No. 930,168; Aug. 3; Sp. p. 1153; Gaz. vol. 145; p. 187.
- Ewing, A. W. (See Helvig and Ewing.)
- Ewing, C. (See Curtis, C. L., assignor.)
- Ewing, C., Tarrytown, N. Y. Door-knob. No. 929,416; July 27; Sp. p. 5639; Gaz. vol. 144; p. 989.
- Ewing, W. M., Pottstown, Pa. Machine for mixing concrete. No. 936,875; Oct. 12; Sp. p. 2655; Gaz. vol. 147; p. 442.
- Excelsior Fly Catcher Mfg. Co. (See Stranzenbach, H., assignor.)
- Excelsior Seat Company. (See Hershey and Huston, assignors.)
- Excelsior Supply Company. (See Hoffer, Whitesell, and Bente, assignors.)
- Excelsior Supply Company. (See Meiser, G. H., assignor.)
- Exley, I. W., Co'ville, Wash. Set-collar. No. 930,169; Aug. 3; Sp. p. 1154; Gaz. vol. 145; p. 187.
- Exline, A. S. (See Exline, B. B., M. P., and A. S.)
- Exline, B. B., M. P., and A. S., Dallas, Tex.; said M. P. and A. S. Exline assignors to said B. B. Exline. Toy. No. 943,528; Dec. 14; Sp. p. 3207; Gaz. vol. 149; p. 540.
- Exline, M. P. (See Exline, B. B., M. P., and A. S.)
- Exline, M. P., B. B., and A. S., Dallas, Tex. Sounding toy. No. 943,529; Dec. 14; Sp. p. 3208; Gaz. vol. 149; p. 540.
- Exline, W. R., Millwood, W. Va. Tongue-truck. No. 921,817; May 18; Sp. p. 3548; Gaz. vol. 142; p. 630.
- Exmoor Storage Battery Company. (See Morrison, W., assignor.)
- Exner, L. F., Niles, Mich. Railway-tie. No. 922,569; May 25; Sp. p. 5091; Gaz. vol. 142; p. 903.
- Exton, A. H., Highbridge, N. J., and J. M. Sherrerd, Easton, Pa., assignors to Taylor Iron & Steel Company, Highbridge, N. J. Tooth for excavating buckets or shovels. No. 923,159; June 1; Sp. p. 85; Gaz. vol. 143; p. 14.
- Exton, A. H., Highbridge, N. J., and J. M. Sherrerd, Easton, Pa. Tooth for excavating buckets or shovels. No. 943,775; Dec. 21; Sp. p. 3753; Gaz. vol. 149; p. 653.
- Extrom, V. E., and C. H. Grundy, Tomahawk, Wis. Electric-lamp socket. No. 910,185; Jan. 19; Sp. p. 3544; Gaz. vol. 138; p. 645.
- Eynson, A. (See Gilchrist, L. M., assignor.)
- Eynon, D. L., *et al.* (See Eynon, W. D., assignor.)
- Eynon-Evans Mfg. Co. (See Otto, W. F., assignor.)
- Eynon, W. D., assignor of one-fourth to J. J. Fisher, Philadelphia, one-fourth to P. Harding, Narberth, Pa., and one-fourth to D. L. Eynon, Paterson, N. J. Machine for rolling metal forms. No. 924,329; June 8; Sp. p. 2696; Gaz. vol. 143; p. 439.
- Eynon, W. D., assignor of one-fourth to J. J. Fisher, Philadelphia, one-fourth to P. Harding, Narberth, Pa., and one-fourth to D. L. Eynon, Paterson, N. J. Mechanism for rolling switch-points. No. 936,436; Oct. 12; Sp. p. 1778; Gaz. vol. 147; p. 295.
- Eynon, W. H., Cleveland, Ohio. Universal pipe-fitting. No. 930,060; Aug. 3; Sp. p. 923; Gaz. vol. 145; p. 148.
- Eyquem, M., Paris, France. Spark-plug for internal-combustion engines. No. 940,448; Nov. 16; Sp. p. 4464; Gaz. vol. 148; p. 746.
- Eyser, F. Vom. (See Boettger and Eyser.)
- F. Wesel Manufacturing Company. (See Gibbon, R. J., assignor.)
- F. Wesel Manufacturing Company. (See Reverdy, C., assignor.)
- F. Wesel Manufacturing Company. (See Weston, F. W., assignor.)
- F. A. Neider Company. (See Laible, F., assignor.)
- F. A. Neider Company. (See Neider and Hafer, assignors.)
- F. A. Whitney Carriage Company. (See Gundelach, E., assignor.)
- F. C. Austin Drainage Excavator Company. (See Jacobs, C. C., assignor.)
- F. C. Newell Mutograph Corporation. (See Newell, F. C., assignor.)
- F. E. Myers and Brother. (See Myers, P. A., assignor.)
- F. E. Reed Co. (See Back and Metcalfe, assignors.)
- F. F. Slocumb & Company. (See Anderson, G. V., assignor.)
- F. F. Slocumb & Company. (See Slocumb and Poinsett, assignors.)
- F. H. Sadler Company. (See Sadler, L. E., assignor.)
- F. H. Smith Manufacturing Company. (See Sassemann, D. C., assignor.)
- F. I. A. T. (See Enrico, G., assignor.)
- F. I. A. T. Fabbrica Italiana Automobili Torino. (See Enrico, G., assignor.)
- F. K. Russell Machine Co. (See Russell, F. K., assignor.)
- F. M. Shaw & Son. (See Heath, A. C., assignor.)
- F. S. Webster Co. (See Wheeler, A. S., assignor.)
- F. W. Braun Company. (See Beach, O. C., assignor.)
- F. W. Whitcher Company. (See Johnson and Newberg, assignors.)
- Faas, C. R., New York, N. Y. Safety-razor. No. 933,168; Sept. 7; Sp. p. 277; Gaz. vol. 146; p. 46.
- Faber, H., Chicago, Ill. Folding organ. No. 944,483; Dec. 28; Sp. p. 5262; Gaz. vol. 149; p. 921.
- Faber, S., Chicago, Ill. Gun mount and elevating mechanism. No. 934,513; Sept. 21; Sp. p. 3105; Gaz. vol. 146; p. 541.
- Faber, S., Chicago, Ill. Gun. No. 944,128; Dec. 21; Sp. p. 4509; Gaz. vol. 149; p. 774.
- Fabian, H., New York, N. Y. Door-hanger. No. 918,985; Apr. 20; Sp. p. 4224; Gaz. vol. 141; p. 738.
- Fabri, H. C., Sidhoardjo, Java. Boiler-cleaner. No. 910,804; Jan. 26; Sp. p. 4865; Gaz. vol. 138; p. 879.
- Fabrique des Longines Franchillon & Cie. (See Pfister, A., assignor.)
- Fachiri, A. P., London, England. Saddle. No. 909,385; Jan. 12; Sp. p. 1932; Gaz. vol. 138; p. 344.
- Fackenberg, C. J. (See Fackenberg, J., assignor.)
- Fackenberg, J., assignor to C. J. Fackenberg, Chicago, Ill. Coin-holder. No. 911,539; Feb. 2; Sp. p. 981; Gaz. vol. 139; p. 171.
- Faehrmann, J. M., Houston, Tex. Tourist's glasses. No. 911,483; Feb. 2; Sp. p. 864; Gaz. vol. 139; p. 153.
- Faessler, J. W., Moberly, Mo. Flue or tube expander. No. 924,049; June 8; Sp. p. 2064; Gaz. vol. 143; p. 344.
- Fagan, E., Whittier, Cal. Fruit-wrapping-paper holder. No. 929,201; July 27; Sp. p. 5177; Gaz. vol. 144; p. 918.
- Fagan, F. A., Herkimer, N. Y. Shade-roller support and shade-guide. No. 934,661; Sept. 21; Sp. p. 3400; Gaz. vol. 146; p. 593.
- Fagan, L. E., Minneapolis, Minn. Rotary blower. No. 912,549; Feb. 16; Sp. p. 3162; Gaz. vol. 139; p. 567.
- Fagan, L. E., Minneapolis, Minn. Rotary blower. No. 940,587; Nov. 16; Sp. p. 4753; Gaz. vol. 148; p. 792.
- Fagan, W., Lewis township, Clay county, Ind. Carpet-stretcher. No. 909,072; Jan. 5; Sp. p. 1309; Gaz. vol. 138; p. 210.
- Fagen, T. J., and S. C. Thomason, Baltimore, Md. Outlet-box. No. 934,298; Sept. 14; Sp. p. 2688; Gaz. vol. 146; p. 447.
- Fageol, F. R. and R. B., Oakland, Cal. Pleasure-railway. No. 927,517; July 13; Sp. p. 1677; Gaz. vol. 144; p. 299.
- Fageol, R. B. (See Fageol, F. R. and R. B.)
- Fagerström, J. E., Husqvarna, A. E. Johansson, Gisebo, and G. Streiffert, assignors to Aktiebolaget Universaltillslutaren, Malmö, Sweden. Closing device for bottles or other vessels. No. 910,998; Jan. 26; Sp. p. 5219; Gaz. vol. 138; p. 940.
- Faget, A., San Francisco, Cal. System of precooling fruit-cars or the like. No. 941,443; Nov. 30; Sp. p. 6624; Gaz. vol. 148; p. 1122.
- Faherty, M. W., Memphis, Tenn., assignor to A. W. French, Piqua, Ohio. Steam-cooker for oil-bearing meal and the like. No. 909,773; Jan. 12; Sp. p. 2693; Gaz. vol. 138; p. 476.
- Fahner, J., Columbus, Ohio. Nut-lock. No. 912,657; Feb. 16; Sp. p. 3367; Gaz. vol. 139; p. 605.
- Fahnestock, H. (See Lentz, J. M., assignor.)
- Fahnestock, J. W., East Greensburg, Pa. Fruit-gatherer. No. 925,885; June 22; Sp. p. 5876; Gaz. vol. 143; p. 1015.
- Fahrney, E. H., Chicago, Ill. Device for measuring speed of moving craft or vehicles. No. 919,707; Apr. 27; Sp. p. 5895; Gaz. vol. 141; p. 1012.
- Fahrney, W. H., Chicago, assignor of one-half to L. H. Brace, Evanston, Ill. Molding apparatus for forming sunken concrete structures. No. 921,211; May 11; Sp. p. 2285; Gaz. vol. 142; p. 401.
- Fahrney, W. H., Chicago, assignor of one-half to L. H. Brace, Evanston, Ill. Constructing sunken concrete structures. No. 928,646; July 20; Sp. p. 4053; Gaz. vol. 144; p. 705.
- Fahsbender, E., Chicago, Ill. Massage-vibrator. No. 935,746; Oct. 5; Sp. p. 260; Gaz. vol. 147; p. 42.
- Faifer, A., assignor to Geo. McKibbin & Son, New York, N. Y. Leather-shrinking machine. No. 917,857; Apr. 13; Sp. p. 1793; Gaz. vol. 141; p. 330.
- Faile, E. H., New York, N. Y. Vehicle-seat. No. 930,061; Aug. 3; Sp. p. 924; Gaz. vol. 145; p. 148.
- Fairall, F. G., Baltimore, Md., assignor to J. H. Dove, Washington, D. C. Detachable coupling. No. 913,484; Feb. 23; Sp. p. 5057; Gaz. vol. 139; p. 904.
- Fairall, H. K. and H. L., and J. R. Cook, Highland, Cal. Water-measuring device. No. 918,834; Apr. 20; Sp. p. 3896; Gaz. vol. 141; p. 687.
- Fairall, H. L. (See Fairall and Cook.)
- Fairbank, W. J., Soldier, Kans. Door-fastener. No. 915,576; Mar. 16; Sp. p. 3958; Gaz. vol. 140; p. 684.
- Fairbanks Company. (See Romig, R. W., assignor.)
- Fairbanks, J. F., Springfield, Mass. Potato-baking utensil. No. 931,587; Aug. 17; Sp. p. 4110; Gaz. vol. 145; p. 707.



*Alphabetical list of patentees—Continued.*

- Fairbanks, J. W., Marion, Ohio. Drafting-table. No. 915,085; Mar. 16; Sp. p. 2940; Gaz. vol. 140; p. 523.
- Fairbanks, Morse & Co. (See Hobart and Reuling, assignors.)
- Fairbanks, Morse & Company. (See Hobart, F. G., assignor.)
- Fairchild, C. B., New York, N. Y. Car-brake. No. 910,805; Jan. 26; Sp. p. 4868; Gaz. vol. 138; p. 879.
- Fairchild, F. H. (See Bradley and Fairchild.)
- Fairchild, J. F., Pelham, N. Y. Bottle. No. 935,478; Sept. 28; Sp. p. 5018; Gaz. vol. 146; p. 887.
- Fairier, A., Springfield, assignor to M. M. Chesrown, Chicago, Ill. Binder. No. 925,886; June 22; Sp. p. 5877; Gaz. vol. 143; p. 1015.
- Fairfield, P., East Port Chester, Conn. Hoe attachment for rakes. No. 921,968; May 18; Sp. p. 3872; Gaz. vol. 142; p. 678.
- Fairman, B. B., Maquoketa, Iowa. Door-fastener. No. 941,771; Nov. 30; Sp. p. 7317; Gaz. vol. 148; p. 1233.
- Fairmont Electric and Manufacturing Company. (See Vogel, J. C., assignor.)
- Fairmont Machine Company. (See Woolery, H. E., assignor.)
- Faison, E. S., New York, N. Y. Massage-vibrator. No. 934,662; Sept. 21; Sp. p. 3401; Gaz. vol. 146; p. 593.
- Fait, J., Sherodsville, Ohio. Rail-joint. No. 927,720; July 13; Sp. p. 2123; Gaz. vol. 144; p. 368.
- Fajans, H., and A. M. Chambers, New York, N. Y. Car-fender. No. 926,398; June 29; Sp. p. 6918; Gaz. vol. 143; p. 1218.
- Falasca, J., Yonkers, N. Y. Faucet. No. 940,522; Nov. 16; Sp. p. 4619; Gaz. vol. 148; p. 770.
- Falbe, E. (See Laursen, L. A., assignor.)
- Falcone, M., Cokedale, Colo. Bricklaying-machine. No. 941,137; Nov. 23; Sp. p. 5947; Gaz. vol. 148; p. 1000.
- Falding, F. J., New York, N. Y. Apparatus for making sulfuric acid. No. 932,771; Aug. 31; Sp. p. 6674; Gaz. vol. 145; p. 1145.
- Fales & Jenks Machine Company. (See Foster, C. S. and J. H., assignors.)
- Fales, L. F., Walpole, Mass. Sewing-machine. No. 925,320; June 15; Sp. p. 4688; Gaz. vol. 143; p. 800.
- Falk, A., New York, N. Y. Box and sliding cover. No. 912,658; Feb. 16; Sp. p. 3368; Gaz. vol. 139; p. 605.
- Falk, F. A., Stacyville, Iowa. Wagon-box construction. No. 920,299; May 4; Sp. p. 443; Gaz. vol. 142; p. 68.
- Falk, M., Cologne, Germany. Device for cleansing cylinders and pistons of dust-aspirating pumps. No. 936,105; Oct. 5; Sp. p. 1063; Gaz. vol. 147; p. 162.
- Falk, M., Leominster, Mass. Die for barrettes, combs, and the like. No. 944,422; Dec. 28; Sp. p. 5132; Gaz. vol. 149; p. 900.
- Falk, O. F., Belleville, N. J., assignor to American Telephone and Telegraph Company. Concentrating device for telephone-transmitters. No. 920,938; May 11; Sp. p. 1731; Gaz. vol. 142; p. 307.
- Fallek, N., Denver, Colo. Electrically-operated single or vibratory gong-ringing device. No. 916,688; Mar. 30; Sp. p. 6149; Gaz. vol. 140; p. 1102.
- Fallek, N., Denver, Colo. Controller-checking device for street-railway cars. No. 920,300; May 4; Sp. p. 444; Gaz. vol. 142; p. 68.
- Faller, E. A., assignor to Rothschild & Company, New York, N. Y. Concealed fastening. No. 918,522; Apr. 20; Sp. p. 3178; Gaz. vol. 141; p. 583.
- Faller, E. A., New York, N. Y., assignor to North Electric Company, Cleveland, Ohio. Electrical selector. No. 927,455; July 6; Sp. p. 1530; Gaz. vol. 144; p. 252.
- Faller, F. X., Chicago, Ill. Article of furniture. No. 923,344; June 1; Sp. p. 541; Gaz. vol. 143; p. 78.
- Faller, P. N., Franklin, Pa. Information and identification means for returnable packages. No. 937,059; Oct. 19; Sp. p. 3031; Gaz. vol. 147; p. 532.
- Fallsen, G. J., assignor to Eastman Kodak Co., Rochester, N. Y. Rolled package. No. 932,456; Aug. 31; Sp. p. 5959; Gaz. vol. 145; p. 1039.
- Fallson, J. B., Jr., Boston, assignor to Pneumatic Scale Corporation Limited, Quincy, Mass. Carton-filling machine. No. 908,457; Jan. 5; Sp. p. 47; Gaz. vol. 138; p. 10.
- Fallows, E. H. (See Jones, H., assignor.)
- Fallows, E. H. (See McPhillips, C. B., assignor.)
- Falls, J. M., Louisville, Ky., assignor to Louisville Filler Company. Bottle-filling machine. No. 912,236; Feb. 9; Sp. p. 2449; Gaz. vol. 139; p. 422.
- Falls, J. M., and L. P. Williams, Louisville, Ky., assignors to Louisville Filler Company. Bottle-filling machine. No. 940,138; Nov. 16; Sp. p. 3748; Gaz. vol. 148; p. 639.
- Falls Machine Company. (See Joeken, P. J., assignor.)
- Falvey, T. J., Needham, Mass. Attachment for calculating-machines. No. 910,806; Jan. 26; Sp. p. 4871; Gaz. vol. 138; p. 880.
- Fancher, S. C., Kansas City, Mo. Water-power system. No. 914,399; Mar. 9; Sp. p. 1593; Gaz. vol. 140; p. 271.
- Fanning, B. E., Los Angeles, Cal. Elevator-signal. No. 943,924; Dec. 21; Sp. p. 4072; Gaz. vol. 149; p. 706.
- Fanning, F., Woodward, assignor of one-third to F. E. Ray and one-third to A. B. Paul, Woodward county, Okla. Propelling means for vessels. No. 942,199; Dec. 7; Sp. p. 370; Gaz. vol. 149; p. 56.
- Fanning, M. A. (See Kent, F. J., assignor.)
- Fanshaw, E. (See Flint and Fanshaw.)
- Farar, M. R., Greensboro, N. C. Air-dryer for static electric machines. No. 925,887; June 22; Sp. p. 5879; Gaz. vol. 143; p. 1016.
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Bauer and Herre, assignors.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Berendes, R., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Bergdolt, A., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Callsen, J., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Deinet, J., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Deutecom, B., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Fischer, E., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Fischer, P., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Flachslaender, J., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Gofferje, E., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Gentsch, C., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Grütteffen, W., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Günther and Hesse, assignors.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Heidenreich, C., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Hesse and Zart, assignors.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Hesse, Günther, and Zart, assignors.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Hofmann, F., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Jansen and Neelmeier, assignors.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Jones, P. G., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Jordan and Neelmeier, assignors.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Kahn, M., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Kahn and Ossenbeck, assignors.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See König, W., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Lommel, W., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Militz, A. E., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Ott, P., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Runkel and Herzberg, assignors.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Thomaschewski, P., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Volkmann, P., assignor.)
- Farbenfabriken vorm. Friedr. Bayer & Co. (See Wolman, L., assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Benda, L., assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Ehrlich and Bertheim, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Franz, K., assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Homolka and Welde, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Liebrecht, A., assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Müller, C. O., assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Schmidt, A., assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Schmidt and Bryk, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Schmidt and Voss, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Schmidt, Rössner, and Balhorn, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Stock, A., assignor.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Stolz and Streitwolf, assignors.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Uhlenhuth, R., assignor.)
- Faroh, M., Brooklyn, N. Y. Lock mechanism. No. 935,004; Sept. 28; Sp. p. 4087; Gaz. vol. 146; p. 733.
- Fargo, C. R., Portland, Oreg. Blank book. No. 943,595; Dec. 14; Sp. p. 3331; Gaz. vol. 149; p. 561.
- Fargo, J. W., Deadwood, S. D. Stall-floor. No. 927,467; July 6; Sp. p. 1561; Gaz. vol. 144; p. 256.
- Fargo, W. G., Jackson, Mich. Dam. No. 914,559; Mar. 9; Sp. p. 1906; Gaz. vol. 140; p. 324.

*Alphabetical list of patentees—Continued.*

- Faris, K. B., and J. D. Walker, Whitesburg, Tenn. Fender for double-shovel plows. No. 941,772; Nov. 30; Sp. p. 7319; Gaz. vol. 148; p. 1233.
- Fariss, G. E., Noblesville, Ind. Sample-displaying apparatus. No. 935,302; Sept. 28; Sp. p. 4675; Gaz. vol. 146; p. 830.
- Farkas, C., and H. J. Jaeger, New York, N. Y. Incandescent electric lamp. No. 933,539; Sept. 7; Sp. p. 1191; Gaz. vol. 146; p. 173.
- Farland, C. H., and A. Swanson, Chicago, Ill. Foldable truck. No. 920,553; May 4; Sp. p. 934; Gaz. vol. 142; p. 151.
- Farley, E. (See Williams, M. C., assignor.)
- Farley, G. A., Lawrence, Mass., assignor to D. J. O'Mahoney. Lifting-rod holder. No. 920,042; Apr. 27; Sp. p. 6597; Gaz. vol. 141; p. 1123.
- Farley, G. R., assignor to H. F. Bushong, Kalamazoo, Mich. Binder. No. 918,027; Apr. 13; Sp. p. 2178; Gaz. vol. 141; p. 390.
- Farley, W. H., Lynchburg, Va., assignor of forty-nine one-hundredths to E. G. Siggers, Washington, D. C. Combination-trousers. No. 923,345; June 1; Sp. p. 545; Gaz. vol. 143; p. 78.
- Farling, J. J., Bluffton, Ind. Annealing and hardening glass. No. 928,860; July 20; Sp. p. 4454; Gaz. vol. 144; p. 777.
- Farlow Draft Gear Company. (See Wright, I. O., assignor.)
- Farlow, R. E., *et al.* (See McCain, W. B., assignor.)
- Farman, S., Tyrone, Ark. Cotton-chopper. No. 915,167; Mar. 16; Sp. p. 3134; Gaz. vol. 140; p. 550.
- Farmer, A., Linn Creek, Mo. Folding coop or crate. No. 930,170; Aug. 3; Sp. p. 1155; Gaz. vol. 145; p. 188.
- Farmer, A. J., Detroit, Mich. Telephone party-line switching apparatus. No. 920,043; Apr. 27; Sp. p. 6598; Gaz. vol. 141; p. 1123.
- Farmer, A. J., Detroit, Mich. Means for extracting the contents of bottles. No. 920,121; May 4; Sp. p. 67; Gaz. vol. 142; p. 8.
- Farmer, A. J., Detroit, Mich. Means for extracting the contents of bottles. No. 922,758; May 25; Sp. p. 5484; Gaz. vol. 142; p. 964.
- Farmer, C. C. (See Turner and Farmer.)
- Farmer, C. C., Chicago, Ill., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure regulator. No. 920,447; May 4; Sp. p. 724; Gaz. vol. 142; p. 116.
- Farmer, E. D., Montclair, and H. B. Church, Bloomfield, N. J. Sash-lock. No. 936,616; Oct. 12; Sp. p. 2149; Gaz. vol. 147; p. 356.
- Farmer, E. T., Carthage, Mo. Culinary utensil. No. 915,577; Mar. 16; Sp. p. 3959; Gaz. vol. 140; p. 684.
- Farmer, F., Worcester, Mass. Pile-cutting device for carpet-loom. No. 921,818; May 18; Sp. p. 3549; Gaz. vol. 142; p. 630.
- Farmer, F., assignor of one-half to M. J. Whittall, Worcester, Mass. Wire-bending device. No. 921,819; May 18; Sp. p. 3553; Gaz. vol. 142; p. 630.
- Farmer, J. B., *et al.* (See Nolley, D. D., assignor.)
- Farmer, L. W., Somerville, Mass. Sanitary cabinet for drinking-cups. No. 943,241; Dec. 14; Sp. p. 2601; Gaz. vol. 149; p. 440.
- Farmer, R. J., Randwick, near Sydney, New South Wales, Australia. Closet or privy. No. 917,274; Apr. 6; Sp. p. 649; Gaz. vol. 141; p. 111.
- Farmer, W. H., Montclair, assignor to Consolidated Safety Pin Company, Bloomfield, N. J. Safety-pin. No. 921,684; May 18; Sp. p. 3293; Gaz. vol. 142; p. 586.
- Farmers Plow Company. (See Gallatin, O. A., assignor.)
- Farnilo, G. H., Schenectady, N. Y. Fence-lock. No. 940,680; Nov. 23; Sp. p. 4967; Gaz. vol. 148; p. 847.
- Farnell, A. H., Lenzie, and S. Barron, assignors to J. W. P. Scott, Glasgow, Scotland. Rivet. No. 918,305; Apr. 13; Sp. p. 2727; Gaz. vol. 141; p. 484.
- Farnham, B. B., Tonawanda, N. Y. Drill-chuck. No. 914,255; Mar. 2; Sp. p. 1285; Gaz. vol. 140; p. 199.
- Farnham, G. M., South Brewer, Me. Paper-cutting machine. No. 933,540; Sept. 7; Sp. p. 1192; Gaz. vol. 146; p. 173.
- Farnham, S. W., St. Stephen, New Brunswick, Canada. Distributor for pulverized substances. No. 924,330; June 8; Sp. p. 2699; Gaz. vol. 143; p. 439.
- Farnham, S. W. and W. H., St. Stephen, New Brunswick, Canada. Distributor for pulverized substances. No. 917,757; Apr. 13; Sp. p. 1580; Gaz. vol. 141; p. 298.
- Farnham, W. H. (See Farnham, S. W. and W. H.)
- Farnsworth, A. M., Camden, N. Y. Coin-collector. No. 941,509; Nov. 30; Sp. p. 6759; Gaz. vol. 148; p. 1145.
- Farnsworth, F. H. (See Higgins, S. W., assignor.)
- Farnsworth, L. D., Palo Alto, and M. J. Bartell, San Francisco, Cal. Electric furnace. No. 924,603; June 8; Sp. p. 3241; Gaz. vol. 143; p. 529.
- Farnsworth, F., Ramsbottom, England. Apparatus for stretching textile fabrics. No. 920,122; May 4; Sp. p. 69; Gaz. vol. 142; p. 9.
- Farnworth, J., Hespeler, Ontario, Canada. Ash-sifter. No. 931,191; Aug. 17; Sp. p. 3307; Gaz. vol. 145; p. 576.
- Farnworth, R. (See Hollas, Farnworth, and Jackson.)
- Farquer, J. J., Danville, Ind. Cutter and shredder. No. 913,485; Feb. 23; Sp. p. 5059; Gaz. vol. 139; p. 904.
- Farquhar, D. (See Todd and Farquhar.)
- Farquhar, D., assignor to Buffalo Steam Roller Company, Buffalo, N. Y. Steam-engine. No. 914,256; Mar. 2; Sp. p. 1287; Gaz. vol. 140; p. 199.
- Farquhar, F. (See Hope, Farquhar, and Hilchey.)
- Farquhar Furnace Company. (See Farquhar, M. J. and H. B., assignors.)
- Farquhar, H. B. (See Farquhar, M. J. and H. B.)
- Farquhar, J. F. M. (See Anderson, G. B., assignor.)
- Farquhar, J. F. M., Boston, Mass. Greenhouse construction. No. 927,958; July 13; Sp. p. 2630; Gaz. vol. 144; p. 447.
- Farquhar, J. F. M., Boston, Mass. Sash-bar construction for skylights in greenhouses. No. 939,592; Nov. 9; Sp. p. 2547; Gaz. vol. 148; p. 418.
- Farquhar, M. G., Aboyne, Scotland, and A. H. Hill, Birmingham, England. Automatic firearm. No. 920,301; May 4; Sp. p. 447; Gaz. vol. 142; p. 69.
- Farquhar, M. J., Wilmington, Ohio. Heat-regulator. No. 934,598; Sept. 21; Sp. p. 3264; Gaz. vol. 146; p. 569.
- Farquhar, M. J. and H. B., assignors to Farquhar Furnace Company, Wilmington, Ohio. Self-regulating furnace. No. 923,346; June 1; Sp. p. 547; Gaz. vol. 143; p. 79.
- Farquhar, M. J. and H. B., assignors to Farquhar Furnace Company, Wilmington, Ohio. Hot-air furnace. No. 923,347; June 1; Sp. p. 551; Gaz. vol. 143; p. 79.
- Farquhar, M. J. and H. B., assignors to Farquhar Furnace Company, Wilmington, Ohio. Automatic furnace-regulator. No. 923,783; June 1; Sp. p. 1519; Gaz. vol. 143; p. 229.
- Farquhar, M. J. and H. B., assignors to Farquhar Furnace Company, Wilmington, Ohio. Furnace. No. 923,784; June 1; Sp. p. 1522; Gaz. vol. 143; p. 229.
- Farr, F. J., near Twining, Mich. Attachment for burners. No. 937,989; Oct. 26; Sp. p. 4982; Gaz. vol. 147; p. 859.
- Farr, F. R. (See Reinhard, F., assignor.)
- Farr, I. E., Great Bend, N. Y. Journal-lubricator. No. 926,476; June 29; Sp. p. 7058; Gaz. vol. 143; p. 1244.
- Farr, T., Sutton-Coldfield, England. Lawn-mower. No. 911,962; Feb. 9; Sp. p. 1915; Gaz. vol. 139; p. 337.
- Farr, W. J., Muskegon, Mich. Fishing-rod. No. 911,119; Feb. 2; Sp. p. 186; Gaz. vol. 139; p. 35.
- Farrand, O. M., New York, N. Y. Combination or keyless lock. No. 929,924; Aug. 3; Sp. p. 641; Gaz. vol. 145; p. 102.
- Farrand, O. M., New York, N. Y. Tool for removing diamonds from settings. No. 943,530; Dec. 14; Sp. p. 3209; Gaz. vol. 149; p. 540.
- Farrand Organ Company. (See Draper, F. W., assignor.)
- Farrand Organ Company. (See Hintz, O. F., assignor.)
- Farrand, W. C., Newark, N. J. Photographer's light-refractor. No. 936,707; Oct. 12; Sp. p. 2331; Gaz. vol. 147; p. 387.
- Farrar, C. C. (See Farrar, G. A. and C. C.)
- Farrar, C. F., Howell, Mich. Rural mail-box. No. 924,651; June 15; Sp. p. 3351; Gaz. vol. 143; p. 577.
- Farrar, C. J., Crafton, Pa. Explosive-engine. No. 919,842; Apr. 27; Sp. p. 6193; Gaz. vol. 141; p. 1056.
- Farrar, G. A. and C. C., Halifax, England. Bottle and like cleaning brush. No. 934,058; Sept. 14; Sp. p. 2211; Gaz. vol. 146; p. 365.
- Farrar, J., Leeds, England. Guard for platen printing-presses. No. 927,226; July 6; Sp. p. 1085; Gaz. vol. 144; p. 176.
- Farrar & Trefls. (See Oldman, E., assignor.)
- Farrell, G. R., Leominster, Mass. Comb stamping and cutting die. No. 926,693; June 29; Sp. p. 7471; Gaz. vol. 143; p. 1317.
- Farrell, J., Cambridge, assignor of two-thirds to B. Dore, deceased, (H. M. Dore, administratrix,) Boston, Mass. Boot or shoe. No. 921,602; May 11; Sp. p. 3096; Gaz. vol. 142; p. 529.
- Farrell, J. B. (See Patterson and Farrell.)
- Farrell, J. E., Olyphant, and W. A. Meehan, Dickson City, Pa. Railway tamping-machine. No. 913,716; Mar. 2; Sp. p. 83; Gaz. vol. 140; p. 15.
- Farrell, J. H. (See Dodge, C. W., Jr., assignor.)
- Farrell, J. S., and J. S. Lewis, Pittsburg, Pa. Folding car-seat. No. 939,593; Nov. 9; Sp. p. 2548; Gaz. vol. 148; p. 418.
- Farrell, J. T., Houston, Tex. Switch-stand. No. 935,005; Sept. 28; Sp. p. 4089; Gaz. vol. 146; p. 733.
- Farrell, J. T., Houston, Tex. Derailler. No. 940,139; Nov. 16; Sp. p. 3752; Gaz. vol. 148; p. 639.
- Farrell, P. F. (See Harrop and Farrell.)
- Farrell, R. D., Tyrone, Pa. Automatic safety appliance for railways. No. 911,961; Feb. 9; Sp. p. 1910; Gaz. vol. 139; p. 336.
- Farrell, R. D., Tyrone, Pa. Automatic safety appliance for railways. No. 937,294; Oct. 19; Sp. p. 3528; Gaz. vol. 147; p. 609.
- Farrell, R. R., Sausalito, Cal. Turn-table turner. No. 933,637; Sept. 7; Sp. p. 1375; Gaz. vol. 146; p. 206.
- Farrell, W., Philadelphia, Pa. Electric engine. No. 931,743; Aug. 24; Sp. p. 4487; Gaz. vol. 145; p. 782.
- Farren, R., and C. T. Clark, Cleveland, Ohio. Electric heater. No. 942,894; Dec. 14; Sp. p. 1833; Gaz. vol. 149; p. 323.



*Alphabetical list of patentees—Continued.*

- Farrer, C. S., Dunmore, Pa. Slate-picker. No. 920,939; May 11; Sp. p. 1732; Gaz. vol. 142; p. 307.
- Farrington, A. W., assignor to Farrington Manufacturing Company, Randolph, Mass. Eyeglass-case. No. 909,386; Jan. 12; Sp. p. 1934; Gaz. vol. 138; p. 345.
- Farrington, F. H., Louisville, Ky. Car heating and ventilating apparatus. No. 940,636; Nov. 16; Sp. p. 4851; Gaz. vol. 148; p. 808.
- Farrington, G. H., assignor of one-half to E. Hendrickson, Brooklyn, N. Y. Doweling-machine. No. 918,986; Apr. 20; Sp. p. 4227; Gaz. vol. 141; p. 738.
- Farrington Manufacturing Company. (See Brown, L. E., assignor.)
- Farrington Manufacturing Company. (See Farrington, A. W., assignor.)
- Farrington, R. C., Boise, Idaho. Phonograph. No. 916,287; Mar. 23; Sp. p. 5331; Gaz. vol. 140; p. 944.
- Farris, F. H. (See Beezley, D. A., assignor.)
- Farris, W. B., assignor to Morris and Company, Chicago, Ill. Apparatus for handling carcasses. No. 931,744; Aug. 24; Sp. p. 4469; Gaz. vol. 145; p. 782.
- Farrow, H. L., assignor to Carter Howe & Company, Newark, N. J. Combined match-box and cigar-cutter. No. 909,852; Jan. 12; Sp. p. 2845; Gaz. vol. 138; p. 501.
- Farrow, W. M., Jr., Washington, D. C. Rotary steam-engine. No. 927,781; July 13; Sp. p. 2240; Gaz. vol. 144; p. 887.
- Farrow, W. S., Miles City, Mont. Hopple. No. 914,257; Mar. 2; Sp. p. 1288; Gaz. vol. 140; p. 200.
- Farwell, F. M., and G. F. Schafer, assignors to Baker Gun & Forging Company, Batavia, N. Y. Breech-loading gun. No. 927,031; July 6; Sp. p. 691; Gaz. vol. 144; p. 111.
- Fascher, H., San Diego, Cal. Machine for recording telephone-calls. No. 915,578; Mar. 16; Sp. p. 3961; Gaz. vol. 140; p. 684.
- Faschny, A. J., New Bethlehem, Pa. Cuspidor-carrier. No. 932,258; Aug. 24; Sp. p. 5581; Gaz. vol. 145; p. 951.
- Fashbaugh, H. C. (See Rhoads and Fashbaugh.)
- Fasig, L. C., Ashland, Ohio. Wheel-mounted scraper. No. 943,864; Dec. 21; Sp. p. 3935; Gaz. vol. 149; p. 684.
- Fasold, D., Keswick, Iowa. Gate. No. 917,275; Apr. 6; Sp. p. 651; Gaz. vol. 141; p. 111.
- Fasset, F. K., Dayton, Ohio, assignor, by mesne assignments to Elevator Supply and Repair Company, Chicago, Ill. Operating mechanism for elevator-doors. No. 937,696; Oct. 19; Sp. p. 4354; Gaz. vol. 147; p. 742.
- Fassett, G. F., Chicago, Ill. Horseshoe. No. 928,647; July 20; Sp. p. 4055; Gaz. vol. 144; p. 706.
- Fassett, G. R., and A. D. Macbeth, Lakewood, Ohio. Hot-water and steam heater. No. 934,903; Sept. 21; Sp. p. 3867; Gaz. vol. 146; p. 672.
- Fassett, J. H., Nashua, N. H. Drawer for casings. No. 921,212; May 11; Sp. p. 2287; Gaz. vol. 142; p. 401.
- Fassino, J., McAlester, Okla. Packing-machine. No. 941,444; Nov. 30; Sp. p. 6626; Gaz. vol. 148; p. 1123.
- Fassnacht, C., South Bend, Ind. Box. No. 922,685; May 25; Sp. p. 5333; Gaz. vol. 142; p. 941.
- Fate, J. L., Chicago, Ill., assignor to American Insulating Company. Sealing-nipple for vacuum-jackets. No. 926,694; June 29; Sp. p. 7473; Gaz. vol. 143; p. 1317.
- Fate, J. L., Chicago, Ill., assignor to American Insulating Company. Sealing vacuum-jackets. No. 930,950; Aug. 10; Sp. p. 2749; Gaz. vol. 145; p. 467.
- Fate, J. L., Chicago, Ill., assignor to American Insulating Company. Indicator for vacuum-jackets. No. 932,008; Aug. 24; Sp. p. 5078; Gaz. vol. 145; p. 868.
- Fath, W. J. (See Druhman, C. A., assignor.)
- Fauber, W. H., Chicago, Ill. Hydroplane-boat. No. 920,849; May 4; Sp. p. 1525; Gaz. vol. 142; p. 247.
- Faucart, J. E., et al. (See Anderson, A., assignor.)
- Faucett, S. F., Centralia, Mo. Wall-paper-hanging implement. No. 919,147; Apr. 20; Sp. p. 4519; Gaz. vol. 141; p. 789.
- Fauconnet, R. A., Paris, France. Kinematograph apparatus. No. 911,710; Feb. 9; Sp. p. 1370; Gaz. vol. 139; p. 255.
- Faught, F. A., assignor to George P. Pilling and Son Company, Philadelphia, Pa. Apparatus for measuring and indicating blood-pressure. No. 917,276; Apr. 6; Sp. p. 652; Gaz. vol. 141; p. 111.
- Faujst, S. (See Charles and Faujat.)
- Faul, E. L., assignor to W. J. Faul Co., New York, N. Y. Candlestick-lubricator. No. 928,861; July 20; Sp. p. 4456; Gaz. vol. 144; p. 777.
- Faulds, J. (See Marshall and Faulds.)
- Faulds, J., Oak Park, Ill., assignor to Middleby Oven Mfg. Co. Bake-oven. No. 910,465; Jan. 19; Sp. p. 4155; Gaz. vol. 138; p. 745.
- Faulk, F. R., and T. Bratt, Allegheny, Pa. Foldable display-tray for merchandise. No. 925,888; June 22; Sp. p. 5880; Gaz. vol. 143; p. 1016.
- Faulk, J. M., St. John, Kans. Table attachment for shoe-jacks. No. 925,571; June 22; Sp. p. 5174; Gaz. vol. 143; p. 912.
- Faulkner, A. N., New York, N. Y. Wheelbarrow. No. 924,547; June 8; Sp. p. 3126; Gaz. vol. 143; p. 509.
- Faulkner, F. E., New York, N. Y. Card-table. No. 919,708; Apr. 27; Sp. p. 5896; Gaz. vol. 141; p. 1012.
- Faulkner, F. G. (See Wray, P. F., assignor.)
- Faulkner, J. B., Holt, assignor of one-half to R. E. Bevins, Kansas City, Mo. Gate-operating attachment. No. 940,306; Nov. 16; Sp. p. 4132; Gaz. vol. 148; p. 697.
- Faulkner, W. H., Delta, Colo. Concrete-block mold. No. 916,689; Mar. 30; Sp. p. 6156; Gaz. vol. 140; p. 1103.
- Faulkner, W. H., Delta, Colo. Nut-lock. No. 937,295; Oct. 19; Sp. p. 3531; Gaz. vol. 147; p. 610.
- Faultless Caster Company. (See Young, W. F., assignor.)
- Faultless Rubber Company. (See Miller, T. W., assignor.)
- Faust, C. A., Chicago, Ill. Automatic fountain attachment for pens. No. 912,659; Feb. 16; Sp. p. 3369; Gaz. vol. 139; p. 605.
- Faust, L., Rockford, Ill., assignor of one-fourth to W. A. Brolin, one-fourth to K. E. Knutsson, and one-fourth to C. J. Swenson. Knock-down sectional furniture. No. 917,725; Apr. 6; Sp. p. 1487; Gaz. vol. 141; p. 260.
- Faust, L., and F. G. Hogland, assignors to National Lock Company, Rockford, Ill. Lock. (Reissue.) No. 12,977; June 22; Sp. p. 6279; Gaz. vol. 143; p. 1081.
- Faust, P. A., St. Louis, Mo. Car-fender. No. 930,062; Aug. 3; Sp. p. 927; Gaz. vol. 145; p. 149.
- Favorite, W. T., assignor to himself and E. B. Gray, Sturgis, Mich. Can-opener. No. 922,117; May 18; Sp. p. 4158; Gaz. vol. 142; p. 727.
- Favreau, W., New York, N. Y. Fastening device. No. 920,044; Apr. 27; Sp. p. 6602; Gaz. vol. 141; p. 1123.
- Favreau, W., New York, N. Y. Segmental hinge. No. 935,594; Sept. 28; Sp. p. 5282; Gaz. vol. 146; p. 927.
- Fawcett, W. N., assignor of one-half to M. Bruckheimer, New York, N. Y. Burglar-alarm. No. 920,123; May 4; Sp. p. 70; Gaz. vol. 142; p. 9.
- Fawell, J., Pittsburg, Pa. Manipulator for feed-tables for rolling-mills. No. 915,669; Mar. 16; Sp. p. 4169; Gaz. vol. 140; p. 719.
- Fawell, J., Pittsburg, Pa. Rolling-mill. No. 933,701; Sept. 7; Sp. p. 1507; Gaz. vol. 146; p. 227.
- Fawkes, F. G., Chicago, Ill. Combination advertising novelty and toy. No. 918,835; Apr. 20; Sp. p. 3899; Gaz. vol. 141; p. 687.
- Fawkes, G. R., Waterloo, Iowa. Telephone-call-recording device. No. 940,140; Nov. 16; Sp. p. 3753; Gaz. vol. 148; p. 639.
- Fawkes, J. H., Detroit, Mich. Horseshoe. No. 922,408; May 18; Sp. p. 4743; Gaz. vol. 142; p. 822.
- Fawkes, W. C., Minneapolis, Minn. Gearing for washing-machines. No. 917,032; Apr. 6; Sp. p. 145; Gaz. vol. 141; p. 28.
- Fawkes, W. C., Minneapolis, Minn. Water-motor. No. 937,060; Oct. 19; Sp. p. 3032; Gaz. vol. 147; p. 532.
- Fay, A. G., Highland Park, Ill. Electrical fuse. No. 936,227; Oct. 5; Sp. p. 1295; Gaz. vol. 147; p. 198.
- Fay, F. P., Los Angeles, Cal. Exerciser. No. 938,045; Oct. 26; Sp. p. 5095; Gaz. vol. 147; p. 877.
- Fay, H. R., Boston, Mass. Water-gate. No. 924,050; June 8; Sp. p. 2066; Gaz. vol. 143; p. 344.
- Fay, J. L., assignor of one-half to F. A. Worthington, St. Louis, Mo. Automobile. No. 909,073; Jan. 5; Sp. p. 1310; Gaz. vol. 138; p. 210.
- Fay Machine Tool Company. (See Fay, R. C., assignor.)
- Fay, R. C., Philadelphia, Pa., assignor to Fay Machine Tool Company. Lathe. No. 910,466; Jan. 19; Sp. p. 4157; Gaz. vol. 138; p. 745.
- Fay, W. G., Pelham, N. Y. Contact-pad for spectacles. No. 915,757; Mar. 23; Sp. p. 4360; Gaz. vol. 140; p. 775.
- Fay, W. G., Pelham, N. Y. Guard-plate and bearing-pad for eyeglass-mounts. No. 923,826; June 8; Sp. p. 1649; Gaz. vol. 143; p. 274.
- Fay, W. L. (See Bowen, E. S., assignor.)
- Fayette R. Plumb, Inc. (See Bascom, C. P., assignor.)
- Faywischewitsch, A., Mittweida, Germany. Steam-turbine. No. 911,653; Feb. 9; Sp. p. 1259; Gaz. vol. 139; p. 237.
- Feagle, B., Longview, Tex. Jeweler's pliers. No. 933,749; Sept. 14; Sp. p. 1622; Gaz. vol. 146; p. 267.
- Fealy, N. E., Washington, D. C. Desk. No. 939,125; Nov. 2; Sp. p. 1431; Gaz. vol. 148; p. 233.
- Febiger, H. B. (See Tomlinson, D. W., Jr., assignor.)
- Febiger, H. B., Philadelphia, Pa. Firearm. No. 908,552; Jan. 5; Sp. p. 251; Gaz. vol. 138; p. 43.
- Febiger, H. B., New Orleans, La. Movement for firearms. No. 943,344; Dec. 14; Sp. p. 2827; Gaz. vol. 149; p. 476.
- Febiger, H. B., assignor of five-eighths to H. H. Berlin, P. F. Pescud, J. C. Febiger, Jr., and S. F. Heaslip, New Orleans, La. Firearm. No. 908,553; Jan. 5; Sp. p. 255; Gaz. vol. 138; p. 43.
- Febiger, J. C., Jr., et al. (See Febiger, H. B., assignor.)
- Fechner, R., et al. (See Prendergast, W. H., assignor.)
- Feddejohnann, W. A. (See Hearn and Feddejohnann.)
- Feder, H., New York, N. Y. Combined hair roll and como. No. 913,369; Feb. 23; Sp. p. 4835; Gaz. vol. 139; p. 866.
- Feder, H., New York, N. Y. Combined hair-roll and comb. No. 916,925; Mar. 30; Sp. p. 6602; Gaz. vol. 140; p. 1176.
- Federal Canning Machinery Company. (See Gray, C. F., assignor.)
- Federal Canning Machinery Company. (See Knight, W. A., assignor.)

*Alphabetical list of patentees—Continued.*

- Federal Electric Company. (See Bretz, H. A., assignor.)  
 Federal Electric Company. (See Goehst, J. H., assignor.)  
 Federal Ice Machine Company. (See Holden, D. L., assignor.) (Reissue.)  
 Federal Manufacturing Company. (See Currier and Leitschuh, assignors.)  
 Federal Metal Weather Strip Company. (See Blohm and Chamberlin, assignors.)  
 Federal Signal Company. (See Cade, J. T., assignor.)  
 Federal Signal Company. (See Griffith, L., assignor.)  
 Fee, H. A., Adrian, Mich. Turbine pump or blower. No. 916,427; Mar. 30; Sp. p. 5613; Gaz. vol. 140; p. 1017.  
 Fee and Mason. (See Rendall, J., assignor.)  
 Fee, R. E., Marion, Ind. Fly-paper holder. No. 923,502; June 1; Sp. p. 867; Gaz. vol. 143; p. 132.  
 Feely, W. H. P., New York, N. Y. Locking device for drawers and trays. No. 924,225; June 8; Sp. p. 2487; Gaz. vol. 143; p. 403.  
 Feerter, J. W., assignor to J. H. Symonds, Boston, Mass. Binding-post. No. 912,237; Feb. 9; Sp. p. 2451; Gaz. vol. 139; p. 423.  
 Fefel, H. H., New York, N. Y., assignor to Duplex Sewing Machine Company. Seam for sewed articles. No. 930,368; Aug. 10; Sp. p. 1510; Gaz. vol. 145; p. 274.  
 Fefel, H. H., New York, N. Y., assignor to Duplex Sewing Machine Company. Sewing-machine. No. 930,369; Aug. 10; Sp. p. 1511; Gaz. vol. 145; p. 274.  
 Fegley, T. J., assignor to North Bro's M'fg Co., Philadelphia, Pa. Chuck. No. 917,033; Apr. 6; Sp. p. 146; Gaz. vol. 141; p. 28.  
 Fegley, T. J., and G. O. Leopold, assignors to North Bro's M'fg Co., Philadelphia, Pa. Chuck. No. 932,259; Aug. 24; Sp. p. 5582; Gaz. vol. 145; p. 951.  
 Fehlmann, A. (See Mayer and Fehlmann.)  
 Feicht, R. S. (See Lammé, Feicht, and Garcelon.)  
 Feicht, R. S., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 926,248; June 29; Sp. p. 6637; Gaz. vol. 143; p. 1171.  
 Feickert, G., Leola, S. D. Grain-separator. No. 912,098; Feb. 9; Sp. p. 2201; Gaz. vol. 139; p. 380.  
 Feickert, J. C., San Francisco, Cal. Whip-socket. No. 928,370; July 20; Sp. p. 3491; Gaz. vol. 144; p. 616.  
 Feightner, L. E., assignor to Lima Locomotive & Machine Company, Lima, Ohio. Superheater for locomotive-boilers. No. 939,237; Nov. 9; Sp. p. 1712; Gaz. vol. 148; p. 297.  
 Feiler, A., Pforzheim, Germany. Aerial-flight chute. No. 925,764; June 22; Sp. p. 5615; Gaz. vol. 143; p. 974.  
 Feiner, E. J. (See Hamann, R. W., assignor.)  
 Feinstein, A., Chelsea, Mass. Hat-frame machine. No. 937,296; Oct. 19; Sp. p. 3532; Gaz. vol. 147; p. 610.  
 Feiock, J. E., Martins Ferry, Ohio, assignor to E. Nortemann, Wheeling, W. Va. Cable-hanger. No. 927,032; July 6; Sp. p. 693; Gaz. vol. 144; p. 111.  
 Feist, C. M., assignor of forty-nine one-hundredths to E. L. Kirk, Sioux City, Iowa. Controller-regulator. No. 942,722; Dec. 7; Sp. p. 1433; Gaz. vol. 149; p. 234.  
 Feist, L., Far Rockaway, assignor to American Tobacco Company, New York, N. Y. Advertising novelty. No. 943,776; Dec. 21; Sp. p. 3756; Gaz. vol. 149; p. 654.  
 Feist, S., et al. (See Wolever, F. H., assignor.)  
 Feistel, A. G., New York, assignor of one-half to O. Trill, Woodhaven, N. Y. Vehicle-lock. No. 918,741; Apr. 20; Sp. p. 3706; Gaz. vol. 141; p. 657.  
 Feix, E., Bodenbach, Austria-Hungary. Securing resilient packing in the grooves of metallic filter-press frames. No. 944,423; Dec. 28; Sp. p. 5133; Gaz. vol. 149; p. 901.  
 Felbel, J., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 908,655; Jan. 5; Sp. p. 486; Gaz. vol. 138; p. 76.  
 Felbel, J., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 920,850; May 4; Sp. p. 1531; Gaz. vol. 142; p. 248.  
 Felbel, J., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 921,213; May 11; Sp. p. 2288; Gaz. vol. 142; p. 402.  
 Felbel, J., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 921,214; May 11; Sp. p. 2293; Gaz. vol. 142; p. 402.  
 Felbel, J., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 923,503; June 1; Sp. p. 868; Gaz. vol. 143; p. 132.  
 Felbel, J., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 929,664; Aug. 3; Sp. p. 39; Gaz. vol. 145; p. 9.  
 Felbel, J., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 936,617; Oct. 12; Sp. p. 2151; Gaz. vol. 147; p. 856.  
 Felbel, J., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 938,562; Nov. 2; Sp. p. 274; Gaz. vol. 148; p. 41.  
 Felbel, J., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 942,187; Dec. 7; Sp. p. 241; Gaz. vol. 149; p. 37.  
 Feld, W., Hönningen-on-the-Rhine, Germany. Recovering hydrocyanic acid. No. 922,409; May 18; Sp. p. 4744; Gaz. vol. 142; p. 823.  
 Feld, W., Hönningen-on-the-Rhine, Germany. Gas-washer. No. 940,103; Nov. 16; Sp. p. 3681; Gaz. vol. 148; p. 627.  
 Feld, W., Zehlendorf, and A. Jahl, Hönningen-on-the-Rhine, Germany; said Jahl assignor to said Feld. Recovering sulfur. No. 927,342; July 6; Sp. p. 1286; Gaz. vol. 144; p. 213.  
 Feldman, E. (See Gins and Feldman.)  
 Feldman, J., New York, N. Y. Butcher's scale-pan. No. 944,777; Dec. 28; Sp. p. 5924; Gaz. vol. 149; p. 1021.  
 Feldmann, C., Delft, Netherlands. Electric-lighting system. No. 922,410; May 18; Sp. p. 4747; Gaz. vol. 142; p. 823.  
 Feldmann, F., George, Iowa. Billiard-chalk holder. No. 914,033; Mar. 2; Sp. p. 826; Gaz. vol. 140; p. 127.  
 Feldmann, L., Jr., assignor to Multiplex Display Fixture Company, St. Louis, Mo. Panel for swinging display-racks. No. 943,821; Dec. 21; Sp. p. 3846; Gaz. vol. 149; p. 669.  
 Feldt, F. J., Peoria, Ill. Wagon-jack. No. 937,061; Oct. 19; Sp. p. 3034; Gaz. vol. 147; p. 533.  
 Feldt, F. J., assignor to J. A. Engel & Co., Peoria, Ill. Elevator. No. 921,685; May 18; Sp. p. 3293; Gaz. vol. 142; p. 586.  
 Felix, A. A., New York, N. Y. Belt-holder. No. 935,840; Oct. 5; Sp. p. 510; Gaz. vol. 147; p. 73.  
 Felix, A. A., New York, N. Y. Tie-holder. No. 939,678; Nov. 9; Sp. p. 2722; Gaz. vol. 148; p. 450.  
 Felix, P., Kenner, Pa. Carriage-top attachment. No. 921,530; May 11; Sp. p. 2945; Gaz. vol. 142; p. 506.  
 Feliz, F. P. (See Tavernetti, P., assignor.)  
 Felker, A. G., Sparta, Wis. Crate. No. 910,518; Jan. 26; Sp. p. 4281; Gaz. vol. 138; p. 786.  
 Felker, L., Washington, D. C. Aerial navigating apparatus. No. 942,629; Dec. 7; Sp. p. 1245; Gaz. vol. 149; p. 204.  
 Fell, A. G., New York, N. Y. Press. No. 922,759; May 25; Sp. p. 5845; Gaz. vol. 142; p. 964.  
 Fell, W. I., assignor to Michigan Carton Company, Battle Creek, Mich. Carton or package. No. 925,572; June 22; Sp. p. 5175; Gaz. vol. 143; p. 912.  
 Fellberg, L., Rixdorf, near Berlin, Germany. Burner for incandescent lamps. No. 930,063; Aug. 3; Sp. p. 931; Gaz. vol. 145; p. 149.  
 Fellenberg, W., Charlottenburg, Germany, assignor to General Electric Company. Time-limit circuit-breaker. No. 920,045; Apr. 27; Sp. p. 6603; Gaz. vol. 141; p. 1123.  
 Feller, S., Enterprise, Ill. Drag-saw. No. 935,197; Sept. 28; Sp. p. 4473; Gaz. vol. 146; p. 795.  
 Fellion, F. E., Malone, N. Y. Cuspidor. No. 927,136; July 6; Sp. p. 909; Gaz. vol. 144; p. 147.  
 Fellows, A. W., assignor to American Sales Book Company, Elmira, N. Y. Perforating-machine. No. 934,397; Sept. 14; Sp. p. 2876; Gaz. vol. 146; p. 480.  
 Fellows Direct Power Transmission Company. (See Fellows, H. W., assignor.)  
 Fellows, G. V., Syracuse, N. Y. Shaper-head. No. 938,135; Oct. 26; Sp. p. 5305; Gaz. vol. 147; p. 907.  
 Fellows, H. W., Cahuenga, Cal., assignor to Fellows Direct Power Transmission Company. Safety starting-crank. No. 921,098; May 11; Sp. p. 2057; Gaz. vol. 142; p. 361.  
 Fellows, H. W., Cahuenga, assignor to Fellows Direct Power Transmission Company, Los Angeles, Cal. Intermittent-grip device. No. 928,434; July 20; Sp. p. 3601; Gaz. vol. 144; p. 637.  
 Fellows, J. E. (See Bonfield and Fellows.)  
 Fellows, J. M., Burlington, Ind. Tire-bolt. No. 916,133; Mar. 23; Sp. p. 5052; Gaz. vol. 140; p. 895.  
 Fellows, W. K., assignor to Nimmons & Fellows, Chicago, Ill. Spring-clip stirrup for reinforced concrete. No. 934,433; Sept. 21; Sp. p. 2959; Gaz. vol. 146; p. 516.  
 Fells, N., New York, N. Y. Window-pane joint. No. 910,655; Jan. 26; Sp. p. 4570; Gaz. vol. 138; p. 831.  
 Feltsing, S. D., Crookston, Minn. Pneumatic straw-stacker. (Reissue.) No. 13,039; Nov. 16; Sp. p. 4888; Gaz. vol. 148; p. 814.  
 Felten & Guillaume-Lahmeyerwerke Aktien-Gesellschaft, Firm of. (See Krämer, C., assignor.)  
 Felten & Guillaume-Lahmeyerwerke-Aktien-Gesellschaft, Firm of. (See Osnos, M. M., assignor.)  
 Feltham, A. E., Providence, R. I. Hay-rake. No. 909,879; Jan. 19; Sp. p. 2917; Gaz. vol. 138; p. 542.



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- Felton, R. A., Birmingham, England. Railway-coach. No. 940,383; Nov. 16; Sp. p. 4325; Gaz. vol. 148; p. 724.
- Felts, F. E., Los Angeles, Cal. Elevated suspended-track automotor-railway. No. 928,435; July 20; Sp. p. 3603; Gaz. vol. 144; p. 637.
- Felts, F. E., Los Angeles, Cal. Wheel. No. 936,708; Oct. 12; Sp. p. 2333; Gaz. vol. 147; p. 387.
- Felts, O. O., New Albany, Ind., assignor to J. T. Towsley, Cincinnati, Ohio. Apparatus for assembling and gluing up table-tops and cores for veneered work. No. 926,180; June 29; Sp. p. 6493; Gaz. vol. 143; p. 1149.
- Fender, F. P., Lincoln, Nebr. Lamp-burner. No. 941,315; Nov. 23; Sp. p. 6327; Gaz. vol. 148; p. 1058.
- Fender, J. F., Stockton, Ga. Car-standard. No. 934,802; Sept. 21; Sp. p. 3678; Gaz. vol. 146; p. 638.
- Fendig, A. (See Decker, F. W., assignor.)
- Fending, H. E., assignor of one-half to R. Sandie, Doyon, N. D. Rolling-pin. No. 931,691; Aug. 17; Sp. p. 4362; Gaz. vol. 145; p. 740.
- Feneley, F. C. (See Kelly and Feneley.)
- Feniger, B., *et al.* (See Greenberg, M., assignor.)
- Fenlason, O. C., Hoquiam, Wash. Collapsible veneer box for berries, &c. No. 912,099; Feb. 9; Sp. p. 2203; Gaz. vol. 139; p. 381.
- Fenlason, O. C., Hoquiam, Wash. Collapsible veneer box for berries, &c. No. 912,100; Feb. 9; Sp. p. 2206; Gaz. vol. 139; p. 381.
- Fenlason, O. C., Hoquiam, Wash. Collapsible box for berries, &c. No. 912,101; Feb. 9; Sp. p. 2208; Gaz. vol. 139; p. 382.
- Fenlason, O. C., Hoquiam, Wash. Panel for wooden structures. No. 935,747; Oct. 5; Sp. p. 262; Gaz. vol. 147; p. 42.
- Fenlason, O. C., Hoquiam, Wash. Veneer box. No. 935,748; Oct. 5; Sp. p. 264; Gaz. vol. 147; p. 42.
- Fenn, A. G., Chicopee Falls, Mass. Needle-feed mechanism. No. 942,895; Dec. 14; Sp. p. 1834; Gaz. vol. 149; p. 323.
- Fenn, G. M., Charlotte, Mich. Post-hole auger. No. 935,251; Sept. 28; Sp. p. 4577; Gaz. vol. 146; p. 814.
- Fenn, R. H., Suffern, N. Y. Calculating device. No. 922,465; May 25; Sp. p. 4880; Gaz. vol. 142; p. 869.
- Fennell, M. M. (See Casaccia, J., assignor.)
- Fenner, A., Syracuse, N. Y. Weather-strip. No. 918,836; Apr. 20; Sp. p. 3900; Gaz. vol. 141; p. 687.
- Fenner, G. P., New London, Conn. Sheet-delivery apparatus for printing-machines. No. 913,631; Feb. 23; Sp. p. 5419; Gaz. vol. 139; p. 955.
- Fenner, W. (See Herzler, Henninger, and Fenner.)
- Fenton, W. A., Sioux City, Iowa. Acetylene-gas lamp. No. 929,296; July 27; Sp. p. 5397; Gaz. vol. 144; p. 949.
- Fenwall, O. O., Brocton, Minn. Tug-releasing device for whiffletrees. No. 920,302; May 4; Sp. p. 448; Gaz. vol. 142; p. 69.
- Feola, R., New York, N. Y. Lock. No. 924,331; June 8; Sp. p. 2700; Gaz. vol. 143; p. 440.
- Feraud, F. H., Granite City, Ill. Electric clock winding mechanism. No. 920,124; May 4; Sp. p. 72; Gaz. vol. 142; p. 9.
- Ferber, P. (See Ellicott and Ferber.)
- Ferber, P., assignor to Keuffel & Esser Company, Hoboken, N. J. Transit. No. 933,897; Sept. 14; Sp. p. 1906; Gaz. vol. 146; p. 315.
- Ferdon, G. W., Cresskill, N. J., assignor to Silver & Company, Brooklyn, N. Y. Night-lamp. No. 916,399; Mar. 23; Sp. p. 5554; Gaz. vol. 140; p. 984.
- Ferdon, G. W., Cresskill, N. J., assignor to Silver & Company, Brooklyn, N. Y. Cake and pie box. No. 918,742; Apr. 20; Sp. p. 3708; Gaz. vol. 141; p. 658.
- Ferenbach, C., Wilkes-Barre, Pa. Skein-lacing machine. No. 916,690; Mar. 30; Sp. p. 6157; Gaz. vol. 140; p. 1103.
- Ferencz, J. (See Wagner and Ferencz.)
- Ferger, L. H., *et al.* (See Moreau, J., assignor.)
- Ferguson, A., Lanesboro, Minn. Level attachment for threshing-machines. No. 913,206; Feb. 23; Sp. p. 4500; Gaz. vol. 139; p. 811.
- Ferguson, A. C., Brooklyn, N. Y. Hydraulic-power apparatus. No. 931,402; Aug. 17; Sp. p. 3768; Gaz. vol. 145; p. 651.
- Ferguson, B. F., Tishomingo, Okla. Crate. No. 910,656; Jan. 26; Sp. p. 4571; Gaz. vol. 138; p. 831.
- Ferguson Bros. Mfg. Co. (See Campbell, J. W., assignor.)
- Ferguson Bros. Mfg. Co. (See Hanley, W., assignor.)
- Ferguson, C. G., Philadelphia, Pa. Polishing-machine. No. 912,102; Feb. 9; Sp. p. 2211; Gaz. vol. 139; p. 382.
- Ferguson, C. H., Jersey City, N. J. Nut-lock. No. 913,486; Feb. 23; Sp. p. 5062; Gaz. vol. 139; p. 904.
- Ferguson, E., Washington, D. C. Non-refillable bottle. No. 939,238; Nov. 9; Sp. p. 1716; Gaz. vol. 148; p. 298.
- Ferguson, E. G. W. (See Dunlavy, Ferguson, and Thoens.)
- Ferguson, F. C., Onseida, N. Y. Window-screen. No. 934,059; Sept. 14; Sp. p. 2212; Gaz. vol. 146; p. 365.
- Ferguson, F. E., and C. A. Knoche, Naperville, Ill. Davenport. No. 944,023; Dec. 21; Sp. p. 4289; Gaz. vol. 149; p. 739.
- Ferguson, F. E., Murfreesboro, N. C. Peanut-picking machine. No. 912,835; Feb. 16; Sp. p. 3780; Gaz. vol. 139; p. 665.
- Ferguson, G., Georgetown, Ky. Rail-joint. No. 934,720; Sept. 21; Sp. p. 3516; Gaz. vol. 146; p. 612.
- Ferguson, G. A., and A. B. Hay, Owen Sound, Ontario, Canada. Necktie-holder. No. 938,749; Nov. 2; Sp. p. 643; Gaz. vol. 148; p. 102.
- Ferguson, G. M., Amherst, Nova Scotia, Canada. Manufacture and painting of signs, letters, and designs. No. 911,033; Feb. 2; Sp. p. 20; Gaz. vol. 139; p. 6.
- Ferguson, G. W., Plymouth, Wis. Steam cooking appliance. No. 911,654; Feb. 9; Sp. p. 1261; Gaz. vol. 139; p. 237.
- Ferguson, J., Midway, Ky. Guard-rail. No. 912,453; Feb. 16; Sp. p. 2946; Gaz. vol. 139; p. 535.
- Ferguson, J. G., Jr., Philadelphia, Pa. Expense registering and calculating machine. No. 930,595; Aug. 10; Sp. p. 2004; Gaz. vol. 145; p. 351.
- Ferguson, J. L., Parkersburg, W. Va. Coin-controlled mechanism. No. 917,277; Apr. 6; Sp. p. 655; Gaz. vol. 141; p. 112.
- Ferguson, J. T., Hickory, Miss. Combination wire-stretcher. No. 938,563; Nov. 2; Sp. p. 284; Gaz. vol. 143; p. 41.
- Ferguson, L. B. (See Lloyd, F. C., assignor.)
- Ferguson, R. A., Denison, Tex. Wrench. No. 929,297; July 27; Sp. p. 5398; Gaz. vol. 144; p. 949.
- Ferguson, S., Ocotlan, Oaxaca, Mexico. Rock-drill. No. 925,765; June 22; Sp. p. 5615; Gaz. vol. 143; p. 975.
- Ferguson, S., Schenectady, N. Y., assignor to General Electric Company. Vapor electric lamp. No. 924,975; June 15; Sp. p. 4039; Gaz. vol. 143; p. 688.
- Ferguson, S. T., Minneapolis, Minn. Culvert-pipe. No. 915,086; Mar. 16; Sp. p. 2942; Gaz. vol. 140; p. 523.
- Ferguson, T., assignor to Linton Machine Company, New York, N. Y. Sewage-discharge system. No. 937,784; Oct. 26; Sp. p. 4555; Gaz. vol. 147; p. 790.
- Ferguson, W., Jr., Stamford, Conn. Spike for railway and like uses. No. 944,725; Dec. 28; Sp. p. 5806; Gaz. vol. 149; p. 1004.
- Ferguson, W. S., Leesville, La. Feed-water heater. No. 931,046; Aug. 17; Sp. p. 2990; Gaz. vol. 145; p. 527.
- Ferguson, W. S., Leesville, assignor of one-half to J. B. Sterns, Vernon parish, La. Rotary engine. No. 927,227; July 6; Sp. p. 1086; Gaz. vol. 144; p. 176.
- Ferguson, W. S., assignor of one-half to J. B. Sterns, Leesville, La. Automatic steam-pump. No. 938,418; Oct. 26; Sp. p. 5929; Gaz. vol. 147; p. 1005.
- Ferguson, W. S., Cleveland, assignor to National Concrete Specialty Company, Sandusky, Ohio. Metal reinforcement for metal-reinforced concrete construction. No. 943,402; Dec. 14; Sp. p. 2934; Gaz. vol. 149; p. 495.
- Ferguson, W. S., and A. W. McMichael, Leesville, La. Chain securing and releasing device. No. 942,061; Dec. 7; Sp. p. 38; Gaz. vol. 149; p. 9.
- Ferguson, D., and C. L. Sheppy, assignors to George N. Pierce Company, Buffalo, N. Y. Carbureter. No. 943,242; Dec. 14; Sp. p. 2603; Gaz. vol. 149; p. 441.
- Ferla, J., New York, N. Y. Apparatus for manufacture of composition board. No. 940,449; Nov. 16; Sp. p. 4465; Gaz. vol. 148; p. 746.
- Ferla, J., St. George, N. Y., assignor of one-fourth to C. L. Parmelee, Orange, N. J. Composition-board. No. 909,173; Jan. 12; Sp. p. 1532; Gaz. vol. 138; p. 277.
- Ferla, J., St. George, N. Y., assignor of one-fourth to C. L. Parmelee, Orange, N. J. Manufacturing composition boards. No. 940,450; Nov. 16; Sp. p. 4468; Gaz. vol. 148; p. 746.
- Fern-Schnell-Schreiber Gesellschaft mit beschränkter Haftung. (See Ribbe, P., assignor.)
- Fernald, C. F., assignor to Star Brass Manufacturing Company, Boston, Mass. Valve. No. 922,686; May 25; Sp. p. 5334; Gaz. vol. 142; p. 941.
- Fernald, C. F., assignor to Star Brass Manufacturing Company, Boston, Mass. Valve. No. 942,492; Dec. 7; Sp. p. 975; Gaz. vol. 149; p. 157.
- Fernald, D., and A. C. Whiting, New York, N. Y. Illuminating-sign. No. 932,009; Aug. 24; Sp. p. 5079; Gaz. vol. 145; p. 868.
- Fernald, F. K., assignor to Dr. Miles Medical Company, Elkhart, Ind. Sheet-supporting device. No. 936,876; Oct. 12; Sp. p. 2657; Gaz. vol. 147; p. 442.
- Fernald, W. H. S., New York, N. Y. Pocket-book or bill-holder. No. 934,060; Sept. 14; Sp. p. 2214; Gaz. vol. 146; p. 366.
- Fernberger, H. M. (See Murray and Fernberger.)
- Fernberger, H. M., Dollar Bay, Mich., and W. W. Murray, Philadelphia, Pa. Detinning. No. 913,275; Feb. 23; Sp. p. 4645; Gaz. vol. 139; p. 833.
- Fero, C., Sr., assignor, by mesne assignments, of one-half to I. Andrejewski, Bay City, Mich. System for generating steam. No. 937,297; Oct. 19; Sp. p. 3534; Gaz. vol. 147; p. 610.
- Fero, J., Bellingham, Wash. Fire-lighting device. No. 924,752; June 15; Sp. p. 3564; Gaz. vol. 143; p. 612.
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- Ferranti, S. Z. de, Hampstead, London, England. Turbine-blade-fixing machine. No. 911,222; Feb. 2; Sp. p. 388; Gaz. vol. 139; p. 68.
- Ferranti, S. Z. de, Hampstead, London, England. Turbine installation for torpedoes. No. 925,889; June 22; Sp. p. 5883; Gaz. vol. 143; p. 1016.
- Ferranti, S. Z. de, Hampstead, London, England. Air-bearing for high speeds. No. 930,851; Aug. 10; Sp. p. 2523; Gaz. vol. 145; p. 436.
- Ferranti, S. Z. de, Grindleford, near Sheffield, England. Turbine-blading. No. 916,400; Mar. 23; Sp. p. 5556; Gaz. vol. 140; p. 984.
- Ferranti, S. Z. de, Grindleford, England. Governing mechanism for elastic-fluid turbines. No. 916,944; Mar. 30; Sp. p. 6641; Gaz. vol. 140; p. 1183.
- Ferranti, S. Z. de, Grindleford, England. Spinning, twisting, and doubling machinery. No. 927,343; July 6; Sp. p. 1288; Gaz. vol. 144; p. 213.
- Ferranti, S. Z. de, Grindleford, England. Elastic-fluid turbine. No. 938,309; Oct. 26; Sp. p. 5685; Gaz. vol. 147; p. 968.
- Ferranti, S. Z. de, London, England. Apparatus for spinning, doubling, and the like. No. 930,848; Aug. 10; Sp. p. 2510; Gaz. vol. 145; p. 435.
- Ferranti, S. Z. de, London, England. Turbine-driven spinning, doubling, and twisting machine. No. 930,849; Aug. 10; Sp. p. 2514; Gaz. vol. 145; p. 435.
- Ferranti, S. Z. de, London, England. Motor-driven twisting element for spinning, doubling, and twisting machines. No. 930,850; Aug. 10; Sp. p. 2518; Gaz. vol. 145; p. 435.
- Ferranti, S. Z. de, London, England. Spinning, doubling, and like textile machine. No. 938,375; Oct. 26; Sp. p. 5832; Gaz. vol. 147; p. 990.
- Ferrari, J. E., *et al.* (See Davis, A. E., assignor.)
- Ferrari, F., Fall River, Mass. Propeller-float. No. 918,029; Apr. 13; Sp. p. 2184; Gaz. vol. 141; p. 391.
- Ferrari, F., assignor of one-tenth to S. Toletti and one-tenth to F. P. Gizzi, Fall River, Mass. Train-indicator. No. 918,028; Apr. 13; Sp. p. 2181; Gaz. vol. 141; p. 391.
- Ferree, I. H., and W. D. Kennedy, Enon Valley, Pa. Rail-joint. No. 932,850; Aug. 31; Sp. p. 6815; Gaz. vol. 145; p. 1169.
- Ferrel, Z. A., Oskaloosa, Iowa. Acetylene-gas generator. No. 940,384; Nov. 16; Sp. p. 4328; Gaz. vol. 148; p. 725.
- Ferren, M. J., Washington, D. C. Bread-cutting machine. No. 941,065; Nov. 23; Sp. p. 5781; Gaz. vol. 148; p. 976.
- Ferrero, M., *et al.* (See Giorgi, G., assignor.)
- Ferres, J. T., assignor to Sefton Manufacturing Company, Anderson, Ind. Packing or shipping box. No. 915,579; Mar. 16; Sp. p. 3966; Gaz. vol. 140; p. 685.
- Ferres, J. T., assignor to Sefton Manufacturing Company, Anderson, Ind. Packing or shipping box. No. 916,544; Mar. 30; Sp. p. 5885; Gaz. vol. 140; p. 1056.
- Ferrick, G. B. (See Ebel and Vollrath, assignors.)
- Ferris, H. J. (See Ferris, H. L. and H. J.)
- Ferris, H. J., Harvard, Ill., assignor to Hunt, Helm, Ferris & Company. Feed and litter carrier. No. 913,881; Mar. 2; Sp. p. 450; Gaz. vol. 140; p. 73.
- Ferris, H. L., Harvard, Ill. Track for door-hangers. No. 908,849; Jan. 5; Sp. p. 807; Gaz. vol. 138; p. 137.
- Ferris, H. L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Feed and litter carrier. No. 924,154; June 8; Sp. p. 2311; Gaz. vol. 143; p. 379.
- Ferris, H. L. and H. J., Harvard, Ill., assignors to Hunt, Helm, Ferris & Company. Door hanger and track. No. 919,288; Apr. 20; Sp. p. 4979; Gaz. vol. 141; p. 835.
- Ferris, W., Middlesex County Asylum, near Tooting, England. Hook and eye. No. 935,098; Sept. 28; Sp. p. 4282; Gaz. vol. 146; p. 765.
- Ferris, W. D., Sterling, Ill. Door-hanger. No. 940,307; Nov. 16; Sp. p. 4134; Gaz. vol. 148; p. 697.
- Ferron, H. C., Amsterdam, Netherlands. Means for retaining and supporting metallic plates for roofing and for like uses. No. 935,479; Sept. 28; Sp. p. 5018; Gaz. vol. 146; p. 887.
- Ferry, C. H. (See Strickland, J. H., assignor.)
- Ferry, C. S. (See Schroeder, W. S., assignor.)
- Ferry, F. S., Philadelphia, Pa., assignor to Halsey J. Tibbals Chemical Manufacturing Company. Packing and display case. No. 940,451; Nov. 16; Sp. p. 4470; Gaz. vol. 148; p. 747.
- Ferry, G. E., Dundee, Nebr. Corner-piece for window-screens. No. 914,126; Mar. 2; Sp. p. 1017; Gaz. vol. 140; p. 160.
- Ferry, G. E., Omaha, Nebr. Angle-brace for screen-frames. No. 933,067; Sept. 7; Sp. p. 60; Gaz. vol. 146; p. 10.
- Ferry, H. M., Detroit, Mich. Machine for combining an adding-machine and type-writer. No. 920,940; May 11; Sp. p. 1735; Gaz. vol. 142; p. 308.
- Ferry, J. F., Leadville, Colo. Liquor-tapping means. No. 936,877; Oct. 12; Sp. p. 2658; Gaz. vol. 147; p. 443.
- Ferry, J. W., Ligonier, Pa. Ink-well. No. 917,573; Apr. 6; Sp. p. 1193; Gaz. vol. 141; p. 209.
- Ferry, T., Wilmington, Del. Shoe-pull. No. 944,424; Dec. 28; Sp. p. 5134; Gaz. vol. 149; p. 901.
- Ferry, W. F. S., Philadelphia, Pa. Printing-press. No. 925,890; June 22; Sp. p. 5886; Gaz. vol. 143; p. 1017.
- Ferry, W. F. S., Philadelphia, Pa. Printing-press. No. 943,629; Dec. 14; Sp. p. 3449; Gaz. vol. 149; p. 575.
- Féry, C., Paris, France. Pendulum electricity-meter. No. 943,531; Dec. 14; Sp. p. 3211; Gaz. vol. 149; p. 541.
- Fesemyer, A. H., Donora, Pa. Knife for cutting oil-cloth. No. 940,308; Nov. 16; Sp. p. 4137; Gaz. vol. 148; p. 698.
- Fesenbek, C., assignor to F. Fesenbek and J. Grimm, Philadelphia, Pa. Alarm-lock. No. 912,454; Feb. 16; Sp. p. 2947; Gaz. vol. 139; p. 535.
- Fesenbek, F., *et al.* (See Fesenbek, C., assignor.)
- Fessler, M. A., Visalia, Cal. Fluid-cooling means for gasolene or other engines. No. 942,493; Dec. 7; Sp. p. 977; Gaz. vol. 149; p. 157.
- Fessenden, G. B., assignor to Eco Magneto Clock Company, Boston, Mass. Electric watchman's clock. No. 924,441; June 8; Sp. p. 2902; Gaz. vol. 143; p. 473.
- Fessenden, R. A., Washington, D. C. Electric signaling. No. 915,280; Mar. 16; Sp. p. 3358; Gaz. vol. 140; p. 586.
- Fessenden, R. A., Washington, D. C. Signaling. No. 916,428; Mar. 30; Sp. p. 5616; Gaz. vol. 140; p. 1017.
- Fessenden, R. A., Washington, D. C. Receiver for electromagnetic waves. No. 921,531; May 11; Sp. p. 2946; Gaz. vol. 142; p. 506.
- Fessenden, R. A., Washington, D. C. Wireless telegraphy. No. 923,962; June 8; Sp. p. 1903; Gaz. vol. 143; p. 818.
- Fessenden, R. A., Washington, D. C. Wireless telegraphy. No. 923,963; June 8; Sp. p. 1904; Gaz. vol. 143; p. 818.
- Fessenden, R. A., Washington, D. C. Signaling by electromagnetic waves. No. 928,371; July 20; Sp. p. 3493; Gaz. vol. 144; p. 617.
- Fessenden, R. A., Washington, D. C. Producing high-frequency oscillations. No. 932,111; Aug. 24; Sp. p. 5292; Gaz. vol. 145; p. 902.
- Fessenden, R. A., Washington, D. C. Means for cleaning guns. No. 938,836; Nov. 2; Sp. p. 831; Gaz. vol. 148; p. 133.
- Fessenden, R. A., Brant Rock, Mass. Detecting device for wireless telegraphy. No. 917,574; Apr. 6; Sp. p. 1194; Gaz. vol. 141; p. 209.
- Fessenden, R. A., Brant Rock, Mass. Wireless signaling. No. 918,306; Apr. 13; Sp. p. 2729; Gaz. vol. 141; p. 484.
- Fessenden, R. A., Brant Rock, Mass. Apparatus for wireless signaling. No. 918,307; Apr. 13; Sp. p. 2731; Gaz. vol. 141; p. 484.
- Fessenden, R. A., Brant Rock, Mass. Lightning-arrester. No. 932,112; Aug. 24; Sp. p. 5295; Gaz. vol. 145; p. 902.
- Fessenden, R. A., Washington, D. C., assignor to National Electric Signaling Company, Pittsburg, Pa. Receiver for electromagnetic waves. No. 916,429; Mar. 30; Sp. p. 5617; Gaz. vol. 140; p. 1018.
- Fessenden, R. A., Washington, D. C., assignor to National Electric Signaling Company, Pittsburg, Pa. Determining positions of vessels. No. 941,565; Nov. 30; Sp. p. 6863; Gaz. vol. 148; p. 1163.
- Fessler, C., assignor to Knock Down Case Company, Detroit, Mich. Shipping box or crate. No. 916,852; Mar. 30; Sp. p. 6447; Gaz. vol. 140; p. 1151.
- Fessler, M., Pforzheim, Germany. Wire-chain-making machine. No. 943,110; Dec. 14; Sp. p. 2342; Gaz. vol. 149; p. 397.
- Fettel, C. H., Hubbard, Ohio, assignor to American Sintering Company, Chicago, Ill. Chain-tension device for sintering-kilns. No. 912,550; Feb. 16; Sp. p. 3164; Gaz. vol. 139; p. 507.
- Fetter, P. E., and W. A. Stickley, Kenmare, N. D. Railway-tie and rail-fastener. No. 919,334; Apr. 27; Sp. p. 5102; Gaz. vol. 141; p. 885.
- Fetterly, C. L. (See Walker, W., assignor.)
- Fetzer, A. H., Gallon, Ohio. Universal joint and four-wheel drive. No. 930,852; Aug. 10; Sp. p. 2526; Gaz. vol. 145; p. 436.
- Feucht, J., St. Paul, Minn. Door-latch. No. 916,545; Mar. 30; Sp. p. 5889; Gaz. vol. 140; p. 1056.
- Few, F. C., *et al.* (See Frear, O. E., assignor.)
- Fey, A., Hamburg, Germany. Bearing-taking device for compass-hoods. No. 934,904; Sept. 21; Sp. p. 3870; Gaz. vol. 146; p. 672.
- Fey, G. W., Seattle, Wash. Trolling-spoon. No. 916,691; Mar. 30; Sp. p. 6162; Gaz. vol. 140; p. 1103.
- Fey, J. B., Columbus, Ohio. Massage and air-compressing machine. No. 939,822; Nov. 9; Sp. p. 3025; Gaz. vol. 148; p. 498.
- Fey, L., Cincinnati, Ohio. Broiler. No. 923,348; June 1; Sp. p. 555; Gaz. vol. 143; p. 80.
- Feyler, W., Pittsfield, Ill. Eaves-trough screen-hanger. No. 914,650; Mar. 9; Sp. p. 2075; Gaz. vol. 140; p. 353.
- Feyler, W., Sturgeon, Mo. Fastener for eaves-trough strainers or protectors. No. 933,969; Sept. 14; Sp. p. 2052; Gaz. vol. 146; p. 337.
- Feyma, K. G., Sandstone, Minn. Fire-escape. No. 913,117; Feb. 23; Sp. p. 4321; Gaz. vol. 139; p. 781.
- Fiala, A. F., assignor of one-half to W. A. Morse, Sauk Center, Minn. Rail-driving device for railroads. No. 914,937; Mar. 9; Sp. p. 2669; Gaz. vol. 140; p. 448.
- Fiala, J. R., Omaha, Nebr. Propelling mechanism. No. 935,787; Oct. 5; Sp. p. 390; Gaz. vol. 147; p. 57.
- Fiat-San Giorgio, Società Anonima. (See Laurenti, C., assignor.)



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- Ficener, A. A., assignor to Barnes Manufacturing Company, Mansfield, Ohio. Pump. No. 944,425; Dec. 28; Sp. p. 5135; Gaz. vol. 149; p. 901.
- Fichter, J. H., Covington, Ky. Moving implement. No. 943,013; Dec. 14; Sp. p. 2125; Gaz. vol. 149; p. 364.
- Fickler, E. (See Linde, Welde, Fickler, and Roderwald.)
- Fiddympt, J. C., Lockport, Ill., assignor to Continuous Extracting Press Corporation, New York, N. Y. Press. No. 940,961; Nov. 23; Sp. p. 5558; Gaz. vol. 148; p. 941.
- Fiddympt, S. C., Lockport, Ill. Concrete construction. No. 932,692; Aug. 31; Sp. p. 6496; Gaz. vol. 145; p. 1119.
- Fidjeland, T. A., Fostvedt, Norway. Magazine-firearm. No. 920,303; May 4; Sp. p. 450; Gaz. vol. 142; p. 69.
- Fieg, J. F. (See Grant and Fieg.)
- Fiege-Mohr Electric Appliance Company. (See Mohr, O. H., assignor.)
- Field, A. B., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Field structure for dynamo-electric machines. No. 912,551; Feb. 16; Sp. p. 3166; Gaz. vol. 139; p. 568.
- Field, D. W., Plumsteadville, Pa. Filter. No. 935,006; Sept. 28; Sp. p. 4090; Gaz. vol. 146; p. 733.
- Field, E. A. (See Rock, F. W., assignor.)
- Field, E. M., Jr., assignor of one-half to G. C. Andrews, Minneapolis, Minn. Foot-warming radiator for automobiles. No. 932,113; Aug. 24; Sp. p. 5296; Gaz. vol. 145; p. 902.
- Field, G. B., Pike, Ark. Mail-bag catcher. No. 908,458; Jan. 5; Sp. p. 49; Gaz. vol. 138; p. 11.
- Field, J. A., Dunkirk, N. Y. Radiator-nipple. No. 908,985; Jan. 5; Sp. p. 1148; Gaz. vol. 138; p. 182.
- Field, J. A., Dunkirk, N. Y. Producing radiator-nipples. No. 916,546; Mar. 30; Sp. p. 5891; Gaz. vol. 140; p. 1057.
- Field, J. M. (See O'Bannon and Field.)
- Field, J. S. (See McGowen, W. R., assignor.)
- Field, M. C., *et al.* (See Baker, O. O., assignor.)
- Field, M. S., Boston, Mass. Letter-facing tray. No. 911,711; Feb. 9; Sp. p. 1373; Gaz. vol. 139; p. 255.
- Field, S. D., Stockbridge, assignor to Pittsfield Spark Coil Company, Dalton, Mass. Dynamo-regulator. No. 929,758; Aug. 3; Sp. p. 266; Gaz. vol. 145; p. 46.
- Field, S. D., Stockbridge, Mass., assignor to Western Union Telegraph Company, New York, N. Y. Multiplex telegraph. No. 942,814; Dec. 7; Sp. p. 1606; Gaz. vol. 149; p. 264.
- Field, S. D., Stockbridge, Mass., assignor to Western Union Telegraph Company, New York, N. Y. Relay. No. 942,815; Dec. 7; Sp. p. 1611; Gaz. vol. 149; p. 264.
- Field, W. L. (See Wilson and Field.)
- Fielding, W. E., Paterson, N. J. Car-track-sanding device. No. 938,837; Nov. 2; Sp. p. 833; Gaz. vol. 148; p. 134.
- Fields, A., Red Oak, Iowa. Attachment for printing-presses. No. 918,428; Apr. 13; Sp. p. 2967; Gaz. vol. 141; p. 523.
- Fields, E., assignor of eight-tenths to J. A. Beck, Pittsburg, Pa. Rail-joint. No. 914,127; Mar. 2; Sp. p. 1018; Gaz. vol. 140; p. 160.
- Fields, J. A., and J. T. Seblin, Chicago, Ill. Glove-pocket. No. 936,437; Oct. 12; Sp. p. 1781; Gaz. vol. 147; p. 296.
- Fields, J. W., West Liberty, Ky. Spur. No. 930,655; Aug. 10; Sp. p. 2125; Gaz. vol. 145; p. 371.
- Fierke, J. F., Dundee, assignor to Illinois Iron & Bolt Company, Carpentersville, Ill. Truck. No. 939,406; Nov. 9; Sp. p. 2144; Gaz. vol. 148; p. 356.
- Fiero, S. T. (See Rowe, M. L., assignor.)
- Fiero, S. T., Pittsburg, Pa. Interlocking sheet-metal piling. No. 912,661; Feb. 16; Sp. p. 3374; Gaz. vol. 139; p. 606.
- Fiero, S. T., Pittsburg, Pa. Interlocking sheet-metal piling. No. 924,442; June 8; Sp. p. 2903; Gaz. vol. 143; p. 473.
- Fiesse, C. J. A., Washington, D. C. Apparatus for separating mixed gases. No. 933,243; Sept. 7; Sp. p. 489; Gaz. vol. 146; p. 75.
- Fife, H. E., Canton, Ohio. Embroidery-hoop. No. 935,841; Oct. 5; Sp. p. 511; Gaz. vol. 147; p. 74.
- Fife, W. C., and S. R. Coleman, Carson City, Mich. Culvert-mold. No. 918,030; Apr. 13; Sp. p. 2185; Gaz. vol. 141; p. 392.
- Fife, W. C., and S. R. Coleman, Carson City, Mich. Culvert-mold. No. 935,007; Sept. 28; Sp. p. 4094; Gaz. vol. 146; p. 734.
- Fifer, G. F., assignor to C. N. Richardson, Providence, R. I. Construction of fire-extinguisher tanks. No. 922,118; May 18; Sp. p. 4159; Gaz. vol. 142; p. 727.
- Fifield, J. J., Medford, assignor of one-half to L. F. Buff, Boston, Mass. Lock-nut. No. 928,436; July 20; Sp. p. 3615; Gaz. vol. 144; p. 638.
- Fifkin, W. A., Glenburn, N. D. Windmill-governor. No. 932,260; Aug. 24; Sp. p. 5583; Gaz. vol. 145; p. 951.
- Figg, G. W., assignor of one-half to F. P. Duncklee, Los Angeles, Cal. Ratchet-drill. No. 941,916; Nov. 30; Sp. p. 7622; Gaz. vol. 148; p. 1283.
- Fike, A., Newton, Kans. Combined dish-pan and drain. No. 917,278; Apr. 6; Sp. p. 660; Gaz. vol. 141; p. 112.
- Filbert, J. H., Baltimore, Md. Improving the odor of vegetable oils. No. 929,845; Aug. 3; Sp. p. 479; Gaz. vol. 145; p. 76.
- Filbert, J. H., Baltimore, Md. Improving the odor of lard substitutes. No. 929,925; Aug. 3; Sp. p. 646; Gaz. vol. 145; p. 103.
- Filbert, J. H., Baltimore, Md. Animal-fat product and making the same. No. 929,926; Aug. 3; Sp. p. 648; Gaz. vol. 145; p. 103.
- Filbert, J. H., Baltimore, Md. Modified cotton-seed oil. No. 930,280; Aug. 3; Sp. p. 1334; Gaz. vol. 145; p. 221.
- Filbert Paving and Construction Company. (See Richardson, B. F., assignor.)
- Files, O. F., Newburyport, assignor of one-half to C. E. Sprague, Lexington, Mass. Snow-plow for railways. No. 910,186; Jan. 19; Sp. p. 3546; Gaz. vol. 138; p. 645.
- Filhour, A. M. (See Sell and Filhour.)
- Filippi, A. P., Paris, France. Surface of ascension or aeroplane for flying-machines. No. 920,554; May 4; Sp. p. 937; Gaz. vol. 142; p. 151.
- Filkin, J., Montclair, N. J. Carpenter's gauge. No. 920,941; May 11; Sp. p. 1737; Gaz. vol. 142; p. 308.
- Filliez, H. J., assignor of one-third to A. Vignos and one-third to M. L. Keagy, Canton, Ohio. Horseshoe. No. 943,146; Dec. 14; Sp. p. 2415; Gaz. vol. 149; p. 410.
- Fillman, I., Waurika, Okla. Banjo. No. 911,484; Feb. 2; Sp. p. 866; Gaz. vol. 139; p. 153.
- Fillmore, E. R., Medford, Mass., assignor to D. E. Knowlton, Buffalo, N. Y. Desiccating-machine. No. 939,126; Nov. 2; Sp. p. 1434; Gaz. vol. 148; p. 234.
- Fillnot Company. (See Rolfsen-Schmidt, S., assignor.)
- Filmer, A. G., Gloversville, N. Y. Leather-finishing machine. No. 920,304; May 4; Sp. p. 454; Gaz. vol. 142; p. 70.
- Filson, I., Springfield, Ohio. Door-controlling device. No. 914,817; Mar. 9; Sp. p. 2433; Gaz. vol. 140; p. 409.
- Finch, A., San Diego, Cal. Reversible rotary gas or oil engine. No. 937,298; Oct. 19; Sp. p. 3535; Gaz. vol. 147; p. 611.
- Finch, A., assignor of one-fifth to C. E. Hysong, San Diego, Cal. Refrigerator. No. 913,276; Feb. 23; Sp. p. 4647; Gaz. vol. 139; p. 833.
- Finch, C. L., assignor to Pfaudler Company, Rochester, N. Y. Flange-cutting machine. No. 912,238; Feb. 9; Sp. p. 2452; Gaz. vol. 139; p. 423.
- Finch, C. L., assignor to Pfaudler Company, Rochester, N. Y. Flanging-machine. No. 914,034; Mar. 2; Sp. p. 827; Gaz. vol. 140; p. 127.
- Finch, C. L., assignor to Pfaudler Company, Rochester, N. Y. Cradle. No. 929,927; Aug. 3; Sp. p. 649; Gaz. vol. 145; p. 103.
- Finch, C. M. (See Perry and Finch.)
- Finch, C. M. (See Perry, Finch, and Rice.)
- Finch, H. I. (See Meston and Finch.)
- Finch, J., Albion, Mich. Gate. No. 920,305; May 4; Sp. p. 455; Gaz. vol. 142; p. 70.
- Finch, J., Albion, Mich. Holder for cows' tails. No. 929,202; July 27; Sp. p. 5178; Gaz. vol. 144; p. 918.
- Finch, J. S. (See Noble and Finch.)
- Finch, S. J., Los Angeles, Cal. Steam-cooker. No. 908,850; Jan. 5; Sp. p. 869; Gaz. vol. 138; p. 137.
- Fincke, J. A., New York, N. Y. Waterproof cement block. No. 934,061; Sept. 14; Sp. p. 2215; Gaz. vol. 146; p. 366.
- Findlay, L. J., *et al.* (See McLean, M. F., assignor.)
- Finholm, M., Hoboken, N. J. Extension-table. No. 927,782; July 13; Sp. p. 2241; Gaz. vol. 144; p. 388.
- Fink, A., Parkston, S. D. Cistern cut-off. No. 910,519; Jan. 26; Sp. p. 4282; Gaz. vol. 138; p. 786.
- Fink, C. E., Campbell, assignor to Pennsylvania Steel Company, Philadelphia, Pa. Tongue-switch. No. 932,010; Aug. 24; Sp. p. 5079; Gaz. vol. 145; p. 868.
- Fink, F., Newark, N. J. Faucet-bung. No. 929,928; Aug. 3; Sp. p. 651; Gaz. vol. 145; p. 103.
- Fink, J., Lima, Ohio. Door-screen. No. 937,230; Oct. 19; Sp. p. 3398; Gaz. vol. 147; p. 589.
- Fink, J. F. (See Klenk and Fink.) (Reissue.)
- Fink, S. (See Bloomberg, L., assignor.)
- Finkelstein, D. (See Crass, G. F., assignor.)
- Finkelstein, S., Harrisburg, Pa. Recovering waste paper. No. 936,106; Oct. 5; Sp. p. 1064; Gaz. vol. 147; p. 162.
- Finkensieper, A. P., Brooklyn, N. Y. Bowl for water-closets. No. 927,783; July 13; Sp. p. 2246; Gaz. vol. 144; p. 388.
- Finkle, A. J., Williamsburg, N. Y. Flat-form photographic-film package. No. 910,052; Jan. 19; Sp. p. 3260; Gaz. vol. 138; p. 601.
- Finkle, J. H., Appleton, Wis. Mold. No. 914,818; Mar. 9; Sp. p. 2436; Gaz. vol. 140; p. 409.
- Finlay, P. E., New Orleans, La. Resonator. No. 927,959; July 13; Sp. p. 2631; Gaz. vol. 144; p. 447.
- Finlayson, P. D., *et al.* (See Washington, D. E., assignor.)
- Finley, A. P., Sherman, Tex. Railway-rail joint. No. 938,467; Nov. 2; Sp. p. 29; Gaz. vol. 148; p. 7.
- Finley, F. H., *et al.* (See Jessup, R. W., assignor.)

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- Finley, S. E., Atlanta, Ga. Street-pavement. No. 922,687; May 25; Sp. p. 5338; Gaz. vol. 142; p. 942.
- Finley, S. E., Atlanta, Ga. Street-pavement. No. 922,688; May 25; Sp. p. 5339; Gaz. vol. 142; p. 942.
- Finley, W. H., Manring, Tenn. Bond-compressor. No. 923,504; June 1; Sp. p. 876; Gaz. vol. 143; p. 132.
- Finley, W. F., Kansas, Ill. Railway-switch. No. 908,654; Jan. 5; Sp. p. 259; Gaz. vol. 138; p. 43.
- Finn, M. H., Milford, assignor to United Shoe Machinery Company, Boston, Mass. Heel. No. 911,120; Feb. 2; Sp. p. 188; Gaz. vol. 139; p. 35.
- Finn, W., assignor of one-third to L. B. Larsen, New York, N. Y. Key-locking device. No. 921,390; May 11; Sp. p. 2680; Gaz. vol. 142; p. 460.
- Finney, G. W., Jackson, Ohio. Coin-controlled vending-machine. No. 912,455; Feb. 16; Sp. p. 2948; Gaz. vol. 139; p. 535.
- Fintel, H., Jr. (See Henby and Fintel, Jr.)
- Finzler, J., New York, N. Y. Trunk. No. 928,743; July 20; Sp. p. 4239; Gaz. vol. 144; p. 738.
- Firebaugh, J. E. (See Detweiler and Firebaugh.)
- Fireproof Products Company. (See Aylsworth, J. W., assignor.)
- Fireproof Products Company. (See Ellis and McElroy, assignors.)
- Fireproof Products Company. (See McElroy and Ellis, assignors.)
- Firm, J. L., Berwyn, assignor to Goss Printing Press Company, Chicago, Ill. Printing-machine. No. 938,046; Oct. 26; Sp. p. 5099; Gaz. vol. 147; p. 877.
- Firman, J. A., et al. (See Smith, W. D., assignor.)
- Firmen, J. D., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 922,119; May 18; Sp. p. 4160; Gaz. vol. 142; p. 727.
- Firmen, J. D., Pleasant Ridge, Ohio, assignor to Bullock Electric Manufacturing Company. Pole-piece-fastening device. No. 922,760; May 25; Sp. p. 5487; Gaz. vol. 142; p. 965.
- First Trust and Savings Bank, Trustee. (See Erickson, J., assignor.)
- Firth, E. J., assignor of one-half to T. R. Firth, Delhi, Ohio. Fluid-motor. No. 917,034; Apr. 6; Sp. p. 147; Gaz. vol. 141; p. 28.
- Firth, F. J., Philadelphia, Pa. Faucet and combination thereof. No. 914,400; Mar. 9; Sp. p. 1595; Gaz. vol. 140; p. 272.
- Firth, T. R. (See Firth, E. J., assignor.)
- Firth, W. E., Philadelphia, Pa. Drop-board for drop-hammers. No. 914,560; Mar. 9; Sp. p. 1908; Gaz. vol. 140; p. 325.
- Fisch, J. H., and J. C. Babst, Barnesville, Minn. Ice-sawing machine. No. 929,846; Aug. 3; Sp. p. 481; Gaz. vol. 145; p. 76.
- Fisch, M., Vienna, Austria-Hungary. Massaging device. No. 909,571; Jan. 12; Sp. p. 2301; Gaz. vol. 138; p. 407.
- Fischbach, A., Tonopah, Nev. Reamer. No. 916,134; Mar. 23; Sp. p. 5053; Gaz. vol. 140; p. 895.
- Fischer, A. (See Kolling and Fischer.)
- Fischer, A., Kensington, London, England. Sound-box for talking-machines. No. 942,816; Dec. 7; Sp. p. 1613; Gaz. vol. 149; p. 265.
- Fischer, A., Chokio, Minn. Tip for wagon-poles. No. 944,184; Dec. 21; Sp. p. 4614; Gaz. vol. 149; p. 792.
- Fischer, A. F., Woodland, Wis. Scrubbing-machine. No. 924,443; June 8; Sp. p. 2906; Gaz. vol. 143; p. 473.
- Fischer, C., guardian. (See Erdmann and Fischer.)
- Fischer, C. D., Jr., Wapakoneta, Ohio. Lathe. No. 941,701; Nov. 30; Sp. p. 7156; Gaz. vol. 148; p. 1208.
- Fischer, C. W., assignor to Theo. A. Kochs Company, Chicago, Ill. Barber's chair. No. 935,480; Sept. 28; Sp. p. 5019; Gaz. vol. 146; p. 887.
- Fischer, E., Seidenberg, near Berlin, assignor to Siemens & Halske, A. G., Berlin, Germany. Manufacturing solutions of caoutchouc. No. 910,520; Jan. 26; Sp. p. 4284; Gaz. vol. 138; p. 786.
- Fischer, E., Berlin, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Calcium salt of dibrombehenic acid. No. 917,758; Apr. 13; Sp. p. 1581; Gaz. vol. 141; p. 298.
- Fischer, E., Berlin, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Magnesium salt of dibrombehenic acid. No. 919,355; Apr. 27; Sp. p. 5104; Gaz. vol. 141; p. 885.
- Fischer, E., Berlin, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Strontium salt of dibrombehenic acid. No. 920,306; May 4; Sp. p. 457; Gaz. vol. 142; p. 70.
- Fischer, E., Gronau, near Elze, and P. Bergell, Berlin, Germany. Making a neutral sodium salt of lactalbumin. No. 941,773; Nov. 30; Sp. p. 7320; Gaz. vol. 148; p. 1233.
- Fischer, H. F. (See Rockenhauser and Fischer.)
- Fischer, J. A. (See Fischer, J. C. and J. A.)
- Fischer, J. A., Memphis, Tenn. Double-acting hinge. No. 941,239; Nov. 23; Sp. p. 6167; Gaz. vol. 148; p. 1034.
- Fischer, J. B., Chicago, Ill. Fishing-rod. No. 912,552; Feb. 16; Sp. p. 3159; Gaz. vol. 139; p. 568.
- Fischer, J. C. and J. A., Lexington, Okla. Landside for plows. No. 921,532; May 11; Sp. p. 2948; Gaz. vol. 142; p. 507.
- Fischer, L. G., Harrisburg, Pa. Die-retainer. No. 917,575; Apr. 6; Sp. p. 1195; Gaz. vol. 141; p. 209.
- Fischer, M., assignor to Firm of H. Lanz, Mannheim, Germany. Smoke-box superheater. No. 934,151; Sept. 14; Sp. p. 2421; Gaz. vol. 146; p. 397.
- Fischer, M. H., East Orange, N. J. Clutch. (Reissue.) No. 13,009; Aug. 17; Sp. p. 4414; Gaz. vol. 145; p. 749.
- Fischer, O., Plauen, Germany. Warp-leasing apparatus. No. 914,401; Mar. 9; Sp. p. 1596; Gaz. vol. 140; p. 272.
- Fischer, O., Plauen, Germany. Warp-leasing apparatus. No. 944,726; Dec. 28; Sp. p. 5807; Gaz. vol. 149; p. 1004.
- Fischer, O., assignor of one-half to J. Buchanan, Chattanooga, Tenn. Plow. No. 910,999; Jan. 26; Sp. p. 5220; Gaz. vol. 138; p. 940.
- Fischer, F., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 938,565; Nov. 2; Sp. p. 287; Gaz. vol. 148; p. 42.
- Fischer, F., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Yellow dye. No. 938,566; Nov. 2; Sp. p. 288; Gaz. vol. 148; p. 42.
- Fischer, R., New York, N. Y. Cigar-cutter. No. 943,739; Dec. 21; Sp. p. 3686; Gaz. vol. 149; p. 640.
- Fischer, R., assignor to C. P. Goldsmith & Co., New York, N. Y. Cigar-cutter. No. 943,738; Dec. 21; Sp. p. 3684; Gaz. vol. 149; p. 640.
- Fischer, R. H., New York, N. Y. Actuating mechanism for autopneumatic pianos. No. 913,002; Feb. 23; Sp. p. 4093; Gaz. vol. 139; p. 743.
- Fischer Save-All Company. (See Fisher, J. F., assignor.)
- Fischer, W. E., Paterson, N. J. Take-up mechanism for looms. No. 931,745; Aug. 24; Sp. p. 4491; Gaz. vol. 145; p. 782.
- Fischer, W. L., Oroville, Cal. Plane. No. 910,807; Jan. 26; Sp. p. 4878; Gaz. vol. 138; p. 880.
- Fischman, M., Streetsville, Ontario, assignor of two-thirds to A. N. Burns and G. H. Smith, Toronto Canada. Filled mattress. No. 912,456; Feb. 16; Sp. p. 2951; Gaz. vol. 139; p. 536.
- Fish, B. F., Chicago, Ill. Operating mechanism for rotary ovens. No. 924,753; June 15; Sp. p. 3567; Gaz. vol. 143; p. 612.
- Fish, C. H. (See Owen, H. W., assignor.)
- Fish, E., Cortland, N. Y. Shade and curtain hanger. No. 926,181; June 29; Sp. p. 6495; Gaz. vol. 143; p. 1149.
- Fish, F. O., Winchester, Mass. Violin. No. 939,486; Nov. 9; Sp. p. 2310; Gaz. vol. 148; p. 383.
- Fish, H. L., Buffalo, N. Y. Fireproof shutter, curtain, &c. No. 916,288; Mar. 23; Sp. p. 5333; Gaz. vol. 140; p. 945.
- Fish, L. E., Los Angeles, Cal. Internal-combustion engine. No. 925,766; June 22; Sp. p. 5618; Gaz. vol. 143; p. 975.
- Fish, M. T., Ithaca, N. Y. Loss-preventing device. No. 939,487; Nov. 9; Sp. p. 2312; Gaz. vol. 148; p. 383.
- Fish, P. J., Sr., Kenmore, Ohio, assignor of one-half to W. Overpack, Lehigh, Iowa. Nested dies for forming bodies from plastic materials. No. 938,047; Oct. 26; Sp. p. 5102; Gaz. vol. 147; p. 878.
- Fish, W. C., Lynn, Mass., assignor to General Electric Company. Electric heater. No. 919,843; Apr. 27; Sp. p. 6195; Gaz. vol. 141; p. 1057.
- Fish, W. C., and R. Fleming, Lynn, Mass., assignors to General Electric Company. Arc-lamp. No. 925,166; June 15; Sp. p. 4406; Gaz. vol. 143; p. 752.
- Fishback, L. E., Toledo, Ohio. Plaster-board. No. 911,223; Feb. 2; Sp. p. 394; Gaz. vol. 139; p. 68.
- Fishback, F. R., assignor to Electric Controller and Manufacturing Company, Cleveland, Ohio. Automatic controller. No. 936,878; Oct. 12; Sp. p. 2660; Gaz. vol. 147; p. 443.
- Fishbaugh, R. H., Wells county, Ind. Railway-tie. No. 910,521; Jan. 26; Sp. p. 4284; Gaz. vol. 138; p. 786.
- Fishburn, W. R., assignor of one-half to R. L. Dibble, Birkville, Kans. Portable drill. No. 931,746; Aug. 24; Sp. p. 4492; Gaz. vol. 145; p. 782.
- Fishel, L. H., New York, N. Y., assignor to Fishel, Nessler & Company. Buckle. No. 941,702; Nov. 30; Sp. p. 7157; Gaz. vol. 148; p. 1208.
- Fishel, Nessler & Company. (See Fishel, L. H., assignor.)
- Fisher, A., Chicago, Ill. Lawn-sprinkler. No. 928,372; July 20; Sp. p. 3494; Gaz. vol. 144; p. 617.
- Fisher, A., Jackson, Miss. Sawing-machine. No. 939,488; Nov. 9; Sp. p. 2313; Gaz. vol. 148; p. 383.
- Fisher, A. J., Buda, assignor to L. H. Scott, Princeton, Ill. Portable mold for concrete culverts and bridges. No. 920,448; May 4; Sp. p. 726; Gaz. vol. 142; p. 116.
- Fisher, B., Anaheim, Cal. Fruit-tree prop. No. 921,215; May 11; Sp. p. 2295; Gaz. vol. 142; p. 403.
- Fisher, C. E., Verplanck, N. Y. Globe-valve. No. 935,360; Sept. 28; Sp. p. 4805; Gaz. vol. 146; p. 849.
- Fisher, D., Burnham, Pa. Combined chuck and driving-dog. No. 918,031; Apr. 13; Sp. p. 2187; Gaz. vol. 141; p. 392.
- Fisher, E. C., assignor to Wickes Boiler Co., Saginaw, Mich. Vertical water-tube boiler. No. 935,541; Sept. 7; Sp. p. 1195; Gaz. vol. 146; p. 174.
- Fisher, E. F., Seattle, Wash. Hose-rack. No. 926,556; June 29; Sp. p. 7192; Gaz. vol. 143; p. 1271.



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- Fisher, F., assignor to T. C. Williams, West Point, Ky. Mowing-machine. No. 914,258; Mar. 2; Sp. p. 1289; Gaz. vol. 140; p. 200.
- Fisher, F., assignor to H. F. Lotz, Ironton, Mo. Attachment for corn-planters. No. 927,518; July 13; Sp. p. 1082; Gaz. vol. 144; p. 300.
- Fisher, G. F., Torreon, Mexico. Lathe-head. No. 927,900; July 13; Sp. p. 2632; Gaz. vol. 144; p. 447.
- Fisher, G. W., and F. Hoyland, Jr., Jackson, Mich. Switch mechanism. No. 930,370; Aug. 10; Sp. p. 1514; Gaz. vol. 145; p. 275.
- Fisher Governor Company. (See Beebe, G. H., assignor.)
- Fisher, H. A., assignor to Trumbull Electric Manufacturing Company, Plainville, Conn. Electric safety-box. No. 944,605; Dec. 28; Sp. p. 5564; Gaz. vol. 149; p. 965.
- Fisher, H. H. (See Black, W. G., assignor.)
- Fisher, H. N. B., Reading, Pa. Flagstaff. No. 921,216; May 11; Sp. p. 2296; Gaz. vol. 142; p. 403.
- Fisher, H. R., Underwood, Iowa. Rotary steam-motor. No. 934,803; Sept. 21; Sp. p. 3679; Gaz. vol. 146; p. 639.
- Fisher, J., Sac City, Iowa. Woven-wire-fence clamp. No. 911,963; Feb. 3; Sp. p. 1916; Gaz. vol. 139; p. 337.
- Fisher, J., Sac City, Iowa. Wire-stretcher. No. 920,307; May 4; Sp. p. 457; Gaz. vol. 142; p. 70.
- Fisher, J., Sac City, Iowa. Woven-wire-fence clamp. No. 938,564; Nov. 2; Sp. p. 285; Gaz. vol. 148; p. 41.
- Fisher, J. F., assignor to Fischer Save-All Company, Hinckley, N. Y. Pulp-screening machine. No. 941,017; Nov. 23; Sp. p. 5686; Gaz. vol. 148; p. 960.
- Fisher, J. H., Washington, D. C., assignor to C. M. Chapman, New York, N. Y. Mail-box holder. No. 936,527; Oct. 12; Sp. p. 1965; Gaz. vol. 147; p. 324.
- Fisher, J. J., *et al.* (See Eynon, W. D., assignor.)
- Fisher, L. (See Cartwright, E. O., assignor.)
- Fisher, O. W., Jersey Shore, Pa. Potato-planter. No. 912,457; Feb. 16; Sp. p. 2952; Gaz. vol. 139; p. 556.
- Fisher, W. C., Middletown, Conn. Cartridge-pocket. No. 918,837; Apr. 20; Sp. p. 3902; Gaz. vol. 141; p. 688.
- Fisher, W. E., Buck Creek, Ind. Safety-envelop. No. 943,111; Dec. 14; Sp. p. 2343; Gaz. vol. 149; p. 397.
- Fisher, W. G. (See Lemp and Fisher.)
- Fisher, W. H., Baltimore, Md. Figure toy. No. 928,744; July 20; Sp. p. 4239; Gaz. vol. 144; p. 738.
- Fisher, W. J., Philadelphia, Pa. Journal-bearing. No. 911,224; Feb. 2; Sp. p. 395; Gaz. vol. 139; p. 69.
- Fisher, W. R., assignor of one-third to J. F. Moran, San Francisco, Cal. Facing stereotype-metal. No. 925,321; June 15; Sp. p. 4691; Gaz. vol. 143; p. 801.
- Fishman, J., New York, N. Y. Safety device for windows. No. 912,458; Feb. 16; Sp. p. 2960; Gaz. vol. 139; p. 536.
- Fisk, C., Spokane, Wash. Miner's candlestick. No. 938,838; Nov. 2; Sp. p. 834; Gaz. vol. 148; p. 134.
- Fisk, C. D. B., and D. R. Smith, Boston, Mass. Car-fender. No. 940,588; Nov. 16; Sp. p. 4756; Gaz. vol. 148; p. 792.
- Fisk, C. F., Allentown, N. J. Vehicle-tire. No. 938,999; Nov. 2; Sp. p. 1187; Gaz. vol. 148; p. 190.
- Fisk Rubber Company. (See Woodward, C. E. W., assignor.)
- Fisk, W. C., and J. A. Seely, New York, N. Y. Cancellation-machine for tickets. No. 940,452; Nov. 16; Sp. p. 4472; Gaz. vol. 148; p. 747.
- Fisk, W. C., and J. A. Seely, New York, N. Y. Cancellation-machine for tickets. No. 940,681; Nov. 23; Sp. p. 4968; Gaz. vol. 148; p. 848.
- Fisk, W. W., and M. D. Taft, Toledo, Ohio. Burial crypt or vault. No. 915,168; Mar. 16; Sp. p. 3135; Gaz. vol. 140; p. 550.
- Fiske, B. A., U. S. Navy, assignor to Western Electric Company, Chicago, Ill. Sighting-machine. (Reissue.) No. 12,916; Feb. 9; Sp. p. 2547; Gaz. vol. 139; p. 437.
- Fiske, G. W., *et al.* (See Geiger, C. E., assignor.)
- Fiske, G. W., *et al.* (See Koop, W. E., assignor.)
- Fiske, H. T., East Cleveland, Ohio. Railway-rail joint. No. 939,239; Nov. 9; Sp. p. 1717; Gaz. vol. 148; p. 298.
- Fister, I. V., Springfield, Mass. Mail-bag delivering and receiving apparatus. No. 918,136; Apr. 13; Sp. p. 2391; Gaz. vol. 141; p. 428.
- Fitch, B. F., Chicago, Ill. Merry-go-round. No. 924,155; June 8; Sp. p. 2313; Gaz. vol. 143; p. 379.
- Fitch, G. A., and G. A. Chamberlin, Ellicottville, N. Y. Milk-pail holder. No. 933,542; Sept. 7; Sp. p. 1197; Gaz. vol. 146; p. 174.
- Fitch, J. C. A., Jr., Brooklyn, N. Y. Card-case. No. 937,584; Oct. 19; Sp. p. 4154; Gaz. vol. 147; p. 707.
- Fithian, E. J., and H. D. Murray, assignors to Bessemer Gas Engine Company, Grove City, Pa. Apparatus for drilling and operating wells. No. 940,589; Nov. 16; Sp. p. 4753; Gaz. vol. 148; p. 792.
- Fittingler, W., Palisades, Colo. Automatic photographic printer. No. 910,122; Jan. 19; Sp. p. 3395; Gaz. vol. 138; p. 623.
- Fitton, J. R. (See Crompton and Fitton.)
- Fitton, J. R., and C. H. Berglund, Worcester, Mass., assignors to Crompton & Knowles Loom Works. Filling-carrier for weft-replenishing looms. No. 934,062; Sept. 14; Sp. p. 2216; Gaz. vol. 146; p. 366.
- Fitts, J. L. (See Comfort and Fitts.)
- Fitts, J. L., Merchantville, N. J., assignor to Warren Webster & Company. Regulating-valve for steam-heating systems. No. 917,035; Apr. 6; Sp. p. 149; Gaz. vol. 141; p. 29.
- Fitts, J. L., Merchantville, assignor to Warren Webster and Company, Camden, N. J. Water and air relief valve for steam-heating apparatus. No. 920,555; May 4; Sp. p. 938; Gaz. vol. 142; p. 151.
- Fitts, J. L., Merchantville, N. J., assignor to Warren Webster & Company. Water and air relief valve. No. 920,556; May 4; Sp. p. 940; Gaz. vol. 142; p. 152.
- Fitts, J. L., Merchantville, N. J., assignor to Warren Webster & Company. Valve. No. 939,823; Nov. 9; Sp. p. 3028; Gaz. vol. 148; p. 499.
- Fitts, J. L., Merchantville, N. J., assignor to Warren, Webster & Company. Valve mechanism for heating apparatus. No. 941,703; Nov. 30; Sp. p. 7159; Gaz. vol. 148; p. 1208.
- Fitts, J. L., Pensauken township, Camden county, N. J., assignor to Warren Webster & Company. Regulating-valve for steam-heating systems. No. 929,665; Aug. 3; Sp. p. 42; Gaz. vol. 145; p. 10.
- Fitts, N. V., assignor of one-half to Colorado Iron Works Company, Denver, Colo. Ore-feeder. No. 926,085; June 22; Sp. p. 6272; Gaz. vol. 143; p. 1081.
- Fitz, A. G., assignor to Fitz Double Pivot Last Company, Auburn, Me. Last. No. 909,387; Jan. 12; Sp. p. 1935; Gaz. vol. 138; p. 345.
- Fitz, A. G., assignor to Fitz Double Pivot Last Company, Auburn, Me. Last. No. 909,388; Jan. 12; Sp. p. 1936; Gaz. vol. 138; p. 345.
- Fitz, A. G., assignor to Fitz Double Pivot Last Company, Auburn, Me. Last-support. No. 909,389; Jan. 12; Sp. p. 1937; Gaz. vol. 138; p. 346.
- Fitz, A. G., assignor to Fitz Double Pivot Last Company, Auburn, Me. Last. No. 913,118; Feb. 23; Sp. p. 4322; Gaz. vol. 139; p. 782.
- Fitz, A. G., assignor to Fitz Double Pivot Last Company, Auburn, Me. Last. No. 933,029; Aug. 31; Sp. p. 7153; Gaz. vol. 145; p. 1228.
- Fitz Double Pivot Last Company. (See Fitz, A. G., assignor.)
- Fitz Gerald, A. F., New York, N. Y. Can-opener. No. 923,349; June 1; Sp. p. 559; Gaz. vol. 143; p. 80.
- Fitz Gerald, D. E., *et al.* (See Dunn, P. S., assignor.)
- Fitz Gerald, F. A., and P. M. Bennie, Niagara Falls, N. Y., assignors to General Electric Company. Production of titanium oxides. No. 921,686; May 18; Sp. p. 3297; Gaz. vol. 142; p. 586.
- Fitz Gerald, J. W., Savannah, Ga. Hose-support. No. 936,438; Oct. 12; Sp. p. 1783; Gaz. vol. 147; p. 296.
- Fitze, E., Houston, Tex. Beauty-pillow. No. 920,308; May 4; Sp. p. 459; Gaz. vol. 142; p. 71.
- Fitzgerald, A. M., *et al.* (See Smith, B. M., assignor.)
- Fitzgerald, E. B., Rosedale, Miss. Cultivator. No. 935,008; Sept. 28; Sp. p. 4096; Gaz. vol. 146; p. 734.
- Fitzgerald, J. J. (See McFarland, L., assignor.)
- Fitzgerald, J. J., Pittsburg, Pa. Penholder attachment. No. 941,240; Nov. 23; Sp. p. 6171; Gaz. vol. 148; p. 1035.
- Fitzgerald, J. R. (See Mauborgne, F. J., assignor.)
- Fitzgerald, R. (See Hibbard, M. W., assignor.)
- Fitzgerald, R. (See Macfarlane, W. P. A., assignor.)
- Fitzgerald, R. P. (See Majors and Fitzgerald.)
- Fitzgerald, T. F., assignor to W. E. De Witt and D. J. Rady, Washington, D. C. Water and gas box for service-pipes. No. 911,485; Feb. 2; Sp. p. 868; Gaz. vol. 139; p. 153.
- Fitzgerald, T. W., New York, N. Y., and A. M. C. Devitalis, Madison, N. J. Car-fan. No. 912,553; Feb. 16; Sp. p. 3170; Gaz. vol. 139; p. 568.
- Fitzgerald, W. H., Brooklyn, N. Y. Combined ice and roller skate. No. 916,289; Mar. 23; Sp. p. 5336; Gaz. vol. 140; p. 945.
- Fitzgibbon, J. J., and J. M. Travis, assignors to Multiplex Faucet Company, St. Louis, Mo. Faucet. No. 911,000; Jan. 26; Sp. p. 5223; Gaz. vol. 138; p. 941.
- Fitzhugh, J. R., Bridgeton, N. J. Ice-cream freezer. No. 910,522; Jan. 26; Sp. p. 4285; Gaz. vol. 138; p. 787.
- Fitzpatrick, H. A., Chicago, Ill. Air-valve. No. 944,024; Dec. 21; Sp. p. 4291; Gaz. vol. 149; p. 739.
- Fitzpatrick, T. J., Lima, Ohio. Oil-can and the like. No. 930,748; Aug. 10; Sp. p. 2314; Gaz. vol. 145; p. 401.
- Fitzsimmons, C. D., Philadelphia, Pa., assignor to Interchangeable Blow Pipe and Metal Company. Blowpipe. No. 934,514; Sept. 21; Sp. p. 3107; Gaz. vol. 146; p. 542.
- Fitzsimmons, T. F., *et al.* (See Dunn, P. S., assignor.)
- Fixter, E., Sharon, assignor of one-half to T. J. Horne, Sharpsville, Pa. Rail-joint. No. 914,128; Mar. 2; Sp. p. 1019; Gaz. vol. 140; p. 160.
- Fjarli, J. O., Berwick, N. D. Gang-plow. No. 936,768; Oct. 12; Sp. p. 2447; Gaz. vol. 147; p. 407.
- Fjelsted, A. L., Colfax, Wis. Tobacco-press. No. 909,174; Jan. 12; Sp. p. 1533; Gaz. vol. 138; p. 277.

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- Flach, J. H., L. Becker, and J. P. Paulson, Denver, Colo. Air-inlet and beer-outlet bung-hole apparatus. No. 911,225; Feb. 2; Sp. p. 397; Gaz. vol. 139; p. 69.
- Flachslaender, J., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Sulfur dye. No. 935,009; Sept. 28; Sp. p. 4097; Gaz. vol. 146; p. 734.
- Flack, J. D., Flackville, N. Y. Cattle-stanchion. No. 933,424; Sept. 7; Sp. p. 872; Gaz. vol. 146; p. 136.
- Flack, M. P., New York, N. Y. Telephone appliance. No. 923,637; June 1; Sp. p. 1170; Gaz. vol. 143; p. 180.
- Flack, R. N. (See Sturm and Flack.)
- Flade, G. F. (See Reith and Flade.)
- Flaecher, F. (See Stolz and Flaecher.)
- Flagg, E., New York, N. Y. Wind-shield. No. 934,152; Sept. 14; Sp. p. 2423; Gaz. vol. 146; p. 398.
- Flagg, J. H., New York, N. Y. Safety-razor. No. 910,187; Jan. 19; Sp. p. 3547; Gaz. vol. 138; p. 645.
- Flaherty, T. F., New York, N. Y. Hoof-pad for horseshoes. No. 918,032; Apr. 13; Sp. p. 2189; Gaz. vol. 141; p. 392.
- Flamm, C. D. (See Gugora and Flamm.)
- Flanagan, C. E., assignor of one-half to I. M. Scott, Steubenville, Ohio. Telemeter-rod. No. 939,489; Nov. 9; Sp. p. 2314; Gaz. vol. 148; p. 383.
- Flanagan, D., Clayton-le-Moors, England. Two-reel sewing-machine. No. 931,919; Aug. 24; Sp. p. 4886; Gaz. vol. 145; p. 838.
- Flanagan, L., Denver, Colo. Concrete-block machine. No. 920,851; May 4; Sp. p. 1537; Gaz. vol. 142; p. 248.
- Flanagan, P. J., New Orleans, La. Smoke-consuming furnace. No. 922,871; May 25; Sp. p. 5747; Gaz. vol. 142; p. 1001.
- Flanagan, P. J., Everett, assignor to A. Daniels, Southbridge, and A. B. Champlin, Everett, Mass. Hand-bag. No. 920,852; May 4; Sp. p. 1540; Gaz. vol. 142; p. 248.
- Flanagan, W., and L. M. Mullinix, Louin, Miss. Screen window or door. No. 937,585; Oct. 19; Sp. p. 4155; Gaz. vol. 147; p. 707.
- Flanders, C. E., West Brookfield, Mass. Book mark and support. No. 943,865; Dec. 21; Sp. p. 3937; Gaz. vol. 149; p. 684.
- Flanders, L. H., Wilkensburg, Pa., assignor to Westinghouse Machine Company. Secondary battery. No. 909,572; Jan. 12; Sp. p. 2302; Gaz. vol. 138; p. 408.
- Flanders, L. H., Wilkensburg, Pa., assignor to Westinghouse Machine Company. Storage-battery electrode. No. 935,252; Sept. 28; Sp. p. 4579; Gaz. vol. 146; p. 814.
- Flanders, L. H., Wilkensburg, Pa., assignor to Westinghouse Machine Company. Storage battery. No. 937,586; Oct. 19; Sp. p. 4156; Gaz. vol. 147; p. 707.
- Flanders, L. H., Wilkensburg, Pa., assignor, by mesne assignments, to Westinghouse Storage Battery Company. Storage battery. No. 943,345; Dec. 14; Sp. p. 2831; Gaz. vol. 149; p. 476.
- Flandes, A., Mexico, Mexico. Feeder for electric cars and other motor-driven vehicles. No. 915,580; Mar. 16; Sp. p. 3969; Gaz. vol. 140; p. 685.
- Flanigan, D. C., assignor of one-fourth to R. Nessett, Seattle, Wash. Combined match-safe and cigar-cutter. No. 922,570; May 25; Sp. p. 5093; Gaz. vol. 142; p. 904.
- Flanigan, R., Baltimore, assignor of one-half to E. E. Weaver, Baltimore county, Md. Machine for applying solder to rims of caps for cans. No. 942,494; Dec. 7; Sp. p. 979; Gaz. vol. 149; p. 158.
- Flannery Bolt Company. (See Stafford, B. E. D., assignor.)
- Flannery, J. M., et al. (See Murphy, H. M. P., assignor.)
- Flannigan, U., and W. H. Ruth, Broken Arrow, Okla. Planter. No. 926,932; July 6; Sp. p. 470; Gaz. vol. 144; p. 76.
- Flat Mop Manufacturing Co. (See Loan, W. F., assignor.)
- Flather, E. J., Nashua, N. H. Attachment for gear-cutting machines. No. 936,879; Oct. 12; Sp. p. 2662; Gaz. vol. 147; p. 443.
- Flather, M., Nashua, N. H. Clutch. No. 918,338; Apr. 20; Sp. p. 3903; Gaz. vol. 141; p. 688.
- Flatow, L. (See Heimann and Flatow.)
- Flatt, W. A., assignor to Improved Appliance Company, Denver, Colo. Sad-iron heater. No. 922,872; May 25; Sp. p. 5748; Gaz. vol. 142; p. 1002.
- Flaugh, C., Jr. (See Ely and Flaugh.)
- Flavin, T. J. (See Anderson and Flavin.)
- Fleck, C., Cleveland, Ohio. Collapsible lantern or shade. No. 932,772; Aug. 31; Sp. p. 6677; Gaz. vol. 145; p. 1146.
- Fleenor, J. G., Jr., Benhams, Va. Mail-bag-delivery apparatus. No. 935,595; Sept. 28; Sp. p. 5283; Gaz. vol. 146; p. 927.
- Fleenor, J. G., Jr., Benhams, Va. Mail-bag crane and catcher. No. 935,596; Sept. 28; Sp. p. 5286; Gaz. vol. 146; p. 927.
- Flegel, H. D., assignor to E. J. Schowalter, Racine, Wis. Indicator. No. 922,466; May 25; Sp. p. 4882; Gaz. vol. 142; p. 869.
- Fleischaker, N., Joplin, Mo. Adjustable window-shade support. No. 910,657; Jan. 26; Sp. p. 4575; Gaz. vol. 138; p. 832.
- Fleischaker, N., Joplin, Mo. Shade-roller fixture. No. 939,994; Nov. 16; Sp. p. 3408; Gaz. vol. 148; p. 587.
- Fleischauer, E., Gehlberg, Germany, assignor to G. P. Altenberg, Cincinnati, Ohio. Double-walled vessel. No. 921,099; May 11; Sp. p. 2059; Gaz. vol. 142; p. 362.
- Fleischhauer, F. J., Chicago, Ill. Bed-plate. No. 914,035; Mar. 2; Sp. p. 831; Gaz. vol. 140; p. 127.
- Fleischmann, R., Mödling, Austria-Hungary. Collapsible or folding carriage. No. 913,487; Feb. 23; Sp. p. 5064; Gaz. vol. 139; p. 905.
- Fleissner, G. J., Washington, Pa. Street-car fender. No. 941,984; Nov. 30; Sp. p. 7749; Gaz. vol. 143; p. 1305.
- Fleming, A. H., assignor to Fleming Sales Co., Fairmont, W. Va. Razor-blade clamp. No. 941,566; Nov. 30; Sp. p. 6866; Gaz. vol. 148; p. 1163.
- Fleming, C. A., Huntsville, Mo. Shovel-board. No. 928,116; July 13; Sp. p. 2911; Gaz. vol. 144; p. 497.
- Fleming, C. F., San Jose, Cal. Fruit-processing device. No. 916,290; Mar. 23; Sp. p. 5338; Gaz. vol. 140; p. 945.
- Fleming, F., Rome, N. Y. Rotary combustion-engine. No. 941,677; Nov. 30; Sp. p. 6868; Gaz. vol. 148; p. 1163.
- Fleming, F., Rome, N. Y. Combined drill and stay-bolt cutter. No. 941,568; Nov. 30; Sp. p. 6872; Gaz. vol. 148; p. 1164.
- Fleming, G., Chicago, Ill. System of refrigeration and water-supply. No. 920,557; May 4; Sp. p. 941; Gaz. vol. 142; p. 152.
- Fleming, G., Chicago, Ill. System for supplying drinking-water. No. 920,558; May 4; Sp. p. 944; Gaz. vol. 142; p. 153.
- Fleming, G., Chicago, Ill. System for supplying and distributing drinking-water. No. 920,559; May 4; Sp. p. 947; Gaz. vol. 142; p. 153.
- Fleming, G. T. (See Cobb and Fleming.)
- Fleming, J. A., Danville, Ill. Scale beam and poise. No. 920,942; May 11; Sp. p. 1759; Gaz. vol. 142; p. 309.
- Fleming, J. A., Danville, Ill. Automobile-wheel. No. 931,403; Aug. 17; Sp. p. 3771; Gaz. vol. 145; p. 651.
- Fleming, J. A., Danville, Ill. Stock-pen. No. 932,380; Aug. 24; Sp. p. 5798; Gaz. vol. 145; p. 991.
- Fleming, J. C., assignor to Detroit Hoist & Machine Company, Detroit, Mich. Propelling mechanism. No. 916,430; Mar. 30; Sp. p. 5618; Gaz. vol. 140; p. 1018.
- Fleming, J. C., assignor to Detroit Hoist & Machine Company, Detroit, Mich. Fluid-pressure engine. No. 923,160; June 1; Sp. p. 87; Gaz. vol. 143; p. 14.
- Fleming, J. J., Philadelphia, Pa. Bracket for shade-rollers. No. 926,399; June 29; Sp. p. 6921; Gaz. vol. 143; p. 1219.
- Fleming, J. J., Carrick, assignor to Phillips Mine and Mill Supply Company, Pittsburg, Pa. Automatic car-stop. No. 914,938; Mar. 9; Sp. p. 2670; Gaz. vol. 140; p. 448.
- Fleming, J. M., Ottawa, Ontario, Canada. Automatic stoker. No. 944,778; Dec. 28; Sp. p. 5925; Gaz. vol. 149; p. 1021.
- Fleming, J. S. (See Jones, Brown, Fleming, and McDonald.)
- Fleming, R. (See Fish and Fleming.)
- Fleming, R., Lynn, Mass., assignor to General Electric Company. Arc-lamp. No. 910,481; Jan. 19; Sp. p. 4199; Gaz. vol. 138; p. 750.
- Fleming, R., Lynn, Mass., assignor to General Electric Company. System of lighting by arc-lamps. No. 910,658; Jan. 26; Sp. p. 4577; Gaz. vol. 138; p. 832.
- Fleming, R., Lynn, Mass., assignor to General Electric Company. Arc-lamp headlight. No. 920,853; May 4; Sp. p. 1541; Gaz. vol. 142; p. 249.
- Fleming, R., and C. A. B. Halvorson, Jr., Lynn, Mass., assignors to General Electric Company. Electric-arc lamp. No. 914,939; Mar. 9; Sp. p. 2671; Gaz. vol. 140; p. 448.
- Fleming, R., and C. A. B. Halvorson, Jr., Lynn, Mass., assignors to General Electric Company. Arc-lamp. No. 926,732; July 6; Sp. p. 24; Gaz. vol. 144; p. 7.
- Fleming, R., and C. A. B. Halvorson, Jr., Lynn, Mass., assignors to General Electric Company. Arc-lamp. No. 928,189; July 13; Sp. p. 3077; Gaz. vol. 144; p. 524.
- Fleming, S. B., Chicago, Ill. Coal-distributing apparatus. No. 924,332; June 8; Sp. p. 2703; Gaz. vol. 143; p. 440.
- Fleming Sales Co. (See Fleming, A. H., assignor.)
- Fleming, W. A., assignor to F. N. Du Bois & Company, New York, N. Y. Pipe for connecting water-closets with soil-pipes. No. 918,137; Apr. 13; Sp. p. 2394; Gaz. vol. 141; p. 429.
- Fleming, W. B., South Pasadena, Cal. Regulator for musical instruments. No. 910,053; Jan. 19; Sp. p. 3261; Gaz. vol. 138; p. 601.
- Flemister, E. T., assignor of one-half to W. M. Knight, Daingerfield, Tex. Cloth-bolt holder. No. 923,255; June 1; Sp. p. 293; Gaz. vol. 143; p. 46.
- Flentje, E., Cambridge, Mass. Hanger for shock-absorbers. No. 943,671; Dec. 21; Sp. p. 3549; Gaz. vol. 149; p. 617.
- Flesch, H., assignor to Diamond Whip Company, Chicago, Ill. Whip. No. 931,047; Aug. 17; Sp. p. 2991; Gaz. vol. 145; p. 527.
- Fleishman, B. A., Wyaconda, Mo. Road grader and scraper. No. 917,279; Apr. 6; Sp. p. 661; Gaz. vol. 141; p. 112.



*Alphabetical list of patentees—Continued.*

- Flessa, G., assignor of one-fourth to N. Buehler, Rawhide, Nev. Transmission-gearing. No. 928,954; July 27; Sp. p. 4654; Gaz. vol. 144; p. 835.
- Flessa, G., Rawhide, assignor of one-fourth to G. Coll, Tonopah, Nev. Rail. No. 929,929; Aug. 3; Sp. p. 652; Gaz. vol. 145; p. 103.
- Flessa, G., assignor of twenty-five per cent. to J. A. Peterson, Rawhide, Nev. Automatic street-car switch. No. 930,463; Aug. 10; Sp. p. 1690; Gaz. vol. 145; p. 305.
- Fletcher, D., Tacoma, Wash. Paddle-wheel vessel. No. 935,198; Sept. 28; Sp. p. 4475; Gaz. vol. 146; p. 796.
- Fletcher, E. W., Worcester, Mass. Ice-creper. No. 915,758; Mar. 23; Sp. p. 4361; Gaz. vol. 140; p. 775.
- Fletcher, G. B., Philadelphia, Pa. Non-refillable bottle. No. 924,333; June 8; Sp. p. 2705; Gaz. vol. 143; p. 440.
- Fletcher, H. C., Rock Creek, Ohio. Mail-box signal. No. 915,837; Mar. 23; Sp. p. 4503; Gaz. vol. 140; p. 799.
- Fletcher, J. (See Pink and Fletcher.)
- Fletcher, J. E. (See Hingley and Fletcher.)
- Fletcher, J. H., Portland, Oreg. Gauntlet-glove. No. 923,256; June 1; Sp. p. 295; Gaz. vol. 143; p. 47.
- Fletcher, J. H., Seattle, Wash. Tire-shield. No. 929,203; July 27; Sp. p. 5179; Gaz. vol. 144; p. 918.
- Fletcher, J. R., assignor to P. & F. Corbin, New Britain, Conn. Swivel knob-spindle. No. 939,191; Nov. 2; Sp. p. 1587; Gaz. vol. 148; p. 257.
- Fletcher, J. R., assignor to P. & F. Corbin, New Britain, Conn. Knob attachment. No. 943,740; Dec. 21; Sp. p. 3688; Gaz. vol. 149; p. 641.
- Fletcher, M. H., Cincinnati, Ohio. Means for preparing core-bars for the casting operations. No. 943,303; Dec. 14; Sp. p. 2733; Gaz. vol. 149; p. 462.
- Fletcher, R. W. (See Fletcher, W. D. and R. W.)
- Fletcher, S., Traverse City, Mich. Power-transmitting device. No. 933,068; Sept. 7; Sp. p. 63; Gaz. vol. 146; p. 11.
- Fletcher, W. D. and R. W., Pendleton, Oreg. Dish mold and scraper. No. 918,033; Apr. 13; Sp. p. 2190; Gaz. vol. 141; p. 393.
- Plett, W., Hyde Park, Mass. Perforator. No. 927,846; July 13; Sp. p. 2388; Gaz. vol. 144; p. 408.
- Flexible Rubber Goods Company. (See Doughty and Sanford, assignors.)
- Flexible Rubber Goods Company. (See Sanford and Doughty, assignors.)
- Flexible Steel Lacing Company. (See Purple, G. E., assignor.)
- Flexible Steel Lacing Company. (See Purple, Beach, and Trout, assignors.)
- Flichtner, S. E., Englewood, N. J., assignor to Cooper-Hewitt Electric Company, New York, N. Y. Adjustable support for vapor-lamps. No. 926,057; June 22; Sp. p. 6203; Gaz. vol. 143; p. 1071.
- Flick, C. E. (See Modlin and Flick.)
- Flick, L. (See Butler and Flick.)
- Fliegel, J., Mallnitz, Germany. Spring-wheel. No. 923,161; June 1; Sp. p. 89; Gaz. vol. 143; p. 14.
- Fliegeltaub, J., *et al.* (See Burkhard, H., assignor.)
- Flight, A. E., and S. M. Tilton, assignors to Parkhill Manufacturing Company, Fitchburg, Mass. Chain-beaming machine. No. 944,727; Dec. 28; Sp. p. 5810; Gaz. vol. 149; p. 1005.
- Flinchbaugh, F. T., York, Pa. Steering-gear for traction-engines. No. 920,125; May 4; Sp. p. 73; Gaz. vol. 142; p. 10.
- Flindall, J., Chicago, Ill. Reclining-chair. No. 908,986; Jan. 5; Sp. p. 1149; Gaz. vol. 138; p. 182.
- Flindall, J., Chicago, Ill. Foot and leg rest. No. 942,630; Dec. 7; Sp. p. 1248; Gaz. vol. 149; p. 204.
- Flindall, J., Chicago, Ill. Hinge. No. 942,723; Dec. 7; Sp. p. 1436; Gaz. vol. 149; p. 234.
- Flindall, J., Chicago, Ill. Chair. No. 942,724; Dec. 7; Sp. p. 1437; Gaz. vol. 149; p. 235.
- Flindall, J., Chicago, Ill. Combination chair and couch. No. 942,817; Dec. 7; Sp. p. 1614; Gaz. vol. 149; p. 265.
- Flindall, J., Chicago, Ill. Reclining-chair. No. 942,818; Dec. 7; Sp. p. 1616; Gaz. vol. 149; p. 265.
- Flindall, J., Chicago, Ill., assignor to Kyndu Manufacturing Company. Foot and leg rest. No. 920,854; May 4; Sp. p. 1544; Gaz. vol. 142; p. 249.
- Flinner, J., Leavenworth, Kans. Gate. No. 913,717; Mar. 2; Sp. p. 85; Gaz. vol. 140; p. 115.
- Flint, A. G., *et al.* (See Weagant, R. A., assignor.)
- Flint, A. T., and E. Fanshaw, Sheffield, England. Game-board. No. 919,148; Apr. 20; Sp. p. 4520; Gaz. vol. 141; p. 790.
- Flint, J. T., *et al.* (See Weagant, R. A., assignor.)
- Flint, W. P., Pittsburg, Pa., assignor to Westinghouse Machine Company. Apparatus for vaporizing hydrocarbon oils. No. 934,599; Sept. 21; Sp. p. 3268; Gaz. vol. 146; p. 570.
- Flintkote Manufacturing Company. (See Overbury, F. C., assignor.)
- Flippen, J. T., Graystone, Va. Hand fertilizer-dropper. No. 917,280; Apr. 6; Sp. p. 662; Gaz. vol. 141; p. 113.
- Flohr, J., Rodange, assignor to Societe Anonyme Des-Hauts-Fourneaux et Forges de Dudelange, Dudelange, Luxembourg. Manufacture of iron or steel by the basic Bessemer process. No. 920,560; May 4; Sp. p. 949; Gaz. vol. 142; p. 154.
- Flood, J. (See Thelen and Flood.)
- Flood, J. N., Denver, Colo. Method and apparatus for saving slimes in ore concentration. No. 919,709; Apr. 27; Sp. p. 5897; Gaz. vol. 141; p. 1012.
- Flood, W. E. (See Zachary, A. A., assignor.)
- Flood, W. J. (See Harris and Flood.)
- Flora, C. P., assignor to South Bend Universal Roller Screen Company, South Bend, Ind. Roller window-screen. No. 912,104; Feb. 9; Sp. p. 2215; Gaz. vol. 139; p. 383.
- Flora, C. P., assignor to R. G. Inwood, S. M. Robinson, and S. Whitehall, South Bend, Ind. Metal-bound box. No. 918,839; Apr. 20; Sp. p. 3905; Gaz. vol. 141; p. 688.
- Flora, C. P., Watertown, assignor to Hood Rubber Company, Boston, Mass. Solution for and method of extracting resins from rubber. No. 933,638; Sept. 7; Sp. p. 1376; Gaz. vol. 146; p. 206.
- Flora, E. E., assignor of one-half to W. E. Rothermel, Chicago, Ill. Box. No. 918,138; Apr. 13; Sp. p. 2396; Gaz. vol. 141; p. 429.
- Flora, E. E., assignor of one-half to W. E. Rothermel, Chicago, Ill. Box. No. 921,603; May 11; Sp. p. 3098; Gaz. vol. 142; p. 529.
- Flora, E. E., assignor of one-half to O. J. Friedman and one-half to C. H. Bohanon, Chicago, Ill. Pressing and sealing mechanism. No. 927,033; July 6; Sp. p. 694; Gaz. vol. 144; p. 111.
- Flora, E. E., Chicago, Ill., assignor of one-half to G. H. Thayer, Jr., Plymouth, Ind. Feed device for vapor-burners. No. 927,784; July 13; Sp. p. 2248; Gaz. vol. 144; p. 388.
- Flora, E. E., and R. J. Zorge, assignors to Zorge Safety Railway Equipment Company, Chicago, Ill. Railway signal and train-controlling mechanism. No. 912,662; Feb. 16; Sp. p. 3379; Gaz. vol. 139; p. 606.
- Flora, E. E., and R. J. Zorge, assignors to Zorge Safety Railway Equipment Company, Chicago, Ill. Railway signal and train-controlling mechanism. No. 925,322; June 15; Sp. p. 4691; Gaz. vol. 143; p. 801.
- Flora, G. W., Attica, Ind. Rotary motor. No. 909,774; Jan. 12; Sp. p. 2696; Gaz. vol. 138; p. 477.
- Florence Iron Works. (See Larrison, W. H., assignor.)
- Florence Manufacturing Company. (See Schwartz, H. M., assignor.)
- Florence Mfg. Co. (See Chainey, E., assignor.)
- Florsheim, L. S., *et al.* (See Florsheim, S. E., assignor.)
- Florsheim, N. S., *et al.* (See Florsheim, S. E., assignor.)
- Florsheim, S., *et al.* (See Florsheim, S. E., assignor.)
- Florsheim, S., assignor to Kabo Corset Company, Chicago, Ill. Form-reducing corset. No. 910,367; Jan. 19; Sp. p. 3952; Gaz. vol. 138; p. 711.
- Florsheim, S. E., Chicago, Ill. Sanitary guard for telephones. No. 923,373; July 20; Sp. p. 3495; Gaz. vol. 144; p. 617.
- Florsheim, S. E., assignor of one-fourth to S. Florsheim, one-fourth to L. S. Florsheim, and one-fourth to N. S. Florsheim, Chicago, Ill. Number-displaying device. No. 916,135; Mar. 23; Sp. p. 5054; Gaz. vol. 140; p. 896.
- Florsheim, S. E., assignor of one-fourth to S. Florsheim, one-fourth to L. S. Florsheim, and one-fourth to N. S. Florsheim, Chicago, Ill. Corset-clamp. No. 938,567; Nov. 2; Sp. p. 289; Gaz. vol. 148; p. 42.
- Flory, B. F., Plainfield, N. J. Coupling carry-iron. No. 926,477; June 29; Sp. p. 7060; Gaz. vol. 143; p. 1245.
- Flossel, C., Munich, Germany. Gas-purifier. No. 926,647; June 29; Sp. p. 7375; Gaz. vol. 143; p. 1301.
- Flower, J. H., Ashtabula, Ohio. Blowpipe. No. 936,769; Oct. 12; Sp. p. 2450; Gaz. vol. 147; p. 407.
- Flower, S. A., New York, N. Y. Fibrous lubricating-packing. No. 911,121; Feb. 2; Sp. p. 189; Gaz. vol. 139; p. 35.
- Flower, S. A., New York, N. Y. Bleaching, cleansing, and sizing compound. No. 936,228; Oct. 5; Sp. p. 1296; Gaz. vol. 147; p. 198.
- Flowers, A. S., Mount Joy, Pa. Door-opening device. No. 934,153; Sept. 14; Sp. p. 2424; Gaz. vol. 146; p. 398.
- Flowers, F. H., and F. R. Leet, Erie, Pa.; said Flowers assignor to said Leet. Ventilator. No. 915,838; Mar. 23; Sp. p. 4504; Gaz. vol. 140; p. 799.
- Flowers, G. H. (See McCleery, J. W., assignor.)
- Flowers, J. F. (See Wertz, D., assignor.)
- Floyd, E. E., Celeste, Tex. Churn. No. 944,129; Dec. 21; Sp. p. 4514; Gaz. vol. 149; p. 775.
- Floyd, G. G., Granite, Ill. Plow. No. 923,964; June 8; Sp. p. 1905; Gaz. vol. 143; p. 318.
- Floyd, G. G., Granite, Ill., assignor to American Steel Foundries, New York, N. Y. Railway-car truck. No. 924,652; June 15; Sp. p. 3353; Gaz. vol. 143; p. 578.

*Alphabetical list of patentees—Continued.*

- Floyd, G. G., Granite, Ill., assignor to American Steel Foundries, New York, N. Y. Car-truck. No. 924,653; June 15; Sp. p. 3355; Gaz. vol. 143; p. 578.
- Floyd, G. G., Granite, Ill., assignor to American Steel Foundries, New York, N. Y. Railway-car truck. No. 924,976; June 15; Sp. p. 4041; Gaz. vol. 143; p. 688.
- Floyd, G. G., Granite, Ill., assignor to American Steel Foundries, New York, N. Y. Rail-clamp. No. 929,930; Aug. 3; Sp. p. 654; Gaz. vol. 145; p. 104.
- Floyd, G. G., Granite City, Ill., assignor to American Steel Foundries, New York, N. Y. Brake-hanger-pin construction for car-truck side frames. No. 940,865; Nov. 23; Sp. p. 5366; Gaz. vol. 148; p. 909.
- Floyd, J., North Fort Worth, Tex. Cotton-thinner. No. 916,431; Mar. 30; Sp. p. 5620; Gaz. vol. 140; p. 1018.
- Floyd, M. M., Greenville, Ill. Extension-ladder. No. 910,188; Jan. 19; Sp. p. 3549; Gaz. vol. 138; p. 646.
- Floyd, R. L., Staunton, Va. Mechanism for elevating invalids. No. 936,107; Oct. 5; Sp. p. 1065; Gaz. vol. 147; p. 162.
- Floyd, R. O. (See Wells, W. F., assignor.)
- Fluegel, C. T. (See Woelfel, M. S., assignor.)
- Fluhrer, L., *et al.* (See Smith, F. M., assignor.)
- Flum, L., Chicago, Ill. Spring-wheel. No. 931,048; Aug. 17; Sp. p. 2992; Gaz. vol. 145; p. 528.
- Flushvalve Company. (See Barrett, E. D., assignor.) (Reissue.)
- Fly, N. D., Alice, Tex. Ant-trap. No. 918,523; Apr. 20; Sp. p. 3179; Gaz. vol. 141; p. 583.
- Flyberg, R. E., Halstad, Minn. Automatic pistol. No. 915,087; Mar. 16; Sp. p. 2943; Gaz. vol. 140; p. 523.
- Flynn, H., Olean, N. Y. Means for utilizing the power of a river. No. 921,687; May 18; Sp. p. 3299; Gaz. vol. 142; p. 586.
- Flynn, J., Bridgewater, Mass. Car-fender. No. 942,631; Dec. 7; Sp. p. 1250; Gaz. vol. 149; p. 204.
- Flynn, J., London, Ontario, assignor of one-fourth to G. W. Kinder and three-eighths to N. Mitchell, Strathroy, and three-eighths to W. D. Chappelle, Wyoming, Canada. Car and engine replacer. No. 923,785; June 1; Sp. p. 1526; Gaz. vol. 143; p. 230.
- Flynn, J. A., Council Grove, Kans. Folding stair. No. 943,672; Dec. 21; Sp. p. 3550; Gaz. vol. 149; p. 618.
- Flynn, J. A., assignor to D. F. Moriarty, Holyoke, Mass. Combination heating and hot-water system. No. 921,604; May 11; Sp. p. 3099; Gaz. vol. 142; p. 530.
- Flynn, J. C., Joliet, Ill. Railway-rail. No. 921,533; May 11; Sp. p. 2949; Gaz. vol. 142; p. 507.
- Flynn, J. T., Atlanta, Ga. Boiler-flue cleaner. No. 914,940; Mar. 9; Sp. p. 2676; Gaz. vol. 140; p. 448.
- Flynn, J. T., San Francisco, Cal. Reinforced construction of walls. No. 932,261; Aug. 24; Sp. p. 5585; Gaz. vol. 145; p. 952.
- Flynn, J. W., assignor of one-half to P. F. Flynn, Wilkinsburg, Pa. Window-bracket. No. 928,190; July 13; Sp. p. 3081; Gaz. vol. 144; p. 524.
- Flynn, M. J., New York, assignor of one-half to E. W. McCarty, Brooklyn, N. Y. Door-check. No. 909,074; Jan. 5; Sp. p. 1311; Gaz. vol. 138; p. 211.
- Flynn, M. J., assignor to R. A. Schoenberg, New York, N. Y. Pull-socket. No. 921,969; May 18; Sp. p. 3873; Gaz. vol. 142; p. 678.
- Flynn, M. J., New York, and J. C. Patnode, Au Sable Forks, N. Y.; said Flynn assignor to said Patnode. Marine propulsion. No. 928,035; July 13; Sp. p. 2767; Gaz. vol. 144; p. 472.
- Flynn, M. M., Woonsocket, R. I. Mop-wringer. No. 944,728; Dec. 28; Sp. p. 5812; Gaz. vol. 149; p. 1005.
- Flynn, P., Philadelphia, Pa. Attachment for plows. No. 938,839; Nov. 2; Sp. p. 835; Gaz. vol. 148; p. 134.
- Flynn, P. F. (See Flynn, J. W., assignor.)
- Flynn, W., Nashville, Tenn. Wheel. No. 920,309; May 4; Sp. p. 460; Gaz. vol. 142; p. 71.
- Flynt, L. W. G., Rochester, N. Y., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Machine for impressing the edges of shoe-soles. No. 934,434; Sept. 21; Sp. p. 2961; Gaz. vol. 146; p. 516.
- Flynt, L. W. G., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Perforating-machine. No. 941,704; Nov. 30; Sp. p. 1761; Gaz. vol. 148; p. 1209.
- Focht, I., Wellsboro, Pa. Milk-strainer-cloth fastener. No. 911,583; Feb. 9; Sp. p. 1092; Gaz. vol. 139; p. 213.
- Fock, R., Hanover, Germany. Water-trap. No. 921,688; May 18; Sp. p. 3300; Gaz. vol. 142; p. 587.
- Fogarty, D., Ottawa, Ontario, Canada. Dust-separating tank. No. 940,141; Nov. 16; Sp. p. 3756; Gaz. vol. 148; p. 640.
- Fogarty, D., Ottawa, Ontario, Canada. Separating-tank for vacuum cleaning apparatus. No. 940,142; Nov. 16; Sp. p. 3758; Gaz. vol. 148; p. 640.
- Fogarty, D., Ottawa, Ontario, Canada. Means for observing and separating heavy objects from dust-laden air-currents. No. 944,779; Dec. 28; Sp. p. 5927; Gaz. vol. 149; p. 1022.
- Fogel, R. R. (See Wooden, E. M., assignor.)
- Fogelson, O. F., Chicago, Ill. Insole. No. 943,243; Dec. 14; Sp. p. 2606; Gaz. vol. 149; p. 441.
- Fogg, J. L. (See Given and Fogg.)
- Fogler Furnace Company. (See Fogler, G. L., assignor.)
- Fogler, G. L., Pittsburg, Pa., assignor to Fogler Furnace Company, Tacoma, Wash. Heater. No. 914,402; Mar. 9; Sp. p. 1600; Gaz. vol. 140; p. 272.
- Foglesang, H. P. (See Brock, A. E., assignor.)
- Foglesong Machine Company. (See Collett and Jackson, assignors.)
- Folco, J., Tacoma, Wash. Fluid-pressure valve. No. 940,385; Nov. 16; Sp. p. 4331; Gaz. vol. 148; p. 725.
- Folden, F. H., Blair, Nebr. Multimolding two-side-delivery hand brick-machine. No. 917,036; Apr. 6; Sp. p. 152; Gaz. vol. 141; p. 29.
- Foley, C. R. (See Whitton, L., assignor.)
- Foley, F., Crowley, La. Pump. No. 934,435; Sept. 21; Sp. p. 2964; Gaz. vol. 146; p. 517.
- Foley, G. M., Chicago, Ill. Mail-pouch catching and delivery device. No. 919,336; Apr. 27; Sp. p. 5105; Gaz. vol. 141; p. 885.
- Foley, H. B., Cleveland, Ohio, and F. G. Wright, Seattle, Wash. Saw-tooth-setting device. No. 944,729; Dec. 28; Sp. p. 5813; Gaz. vol. 149; p. 1006.
- Foley, J., assignor of one-third to D. F. Gibson and one-third to O. T. White, Birmingham, Ala. Liquid-indicator and leak-detector. No. 930,171; Aug. 3; Sp. p. 1156; Gaz. vol. 145; p. 188.
- Foley, J. B., New Haven, Conn. Sash lock or holder. No. 908,987; Jan. 5; Sp. p. 1151; Gaz. vol. 138; p. 182.
- Foley, M., Herkimer, N. Y. Type-writer cabinet. No. 941,985; Nov. 30; Sp. p. 7752; Gaz. vol. 148; p. 1305.
- Foley, M. B., *et al.* (See Moore, J., assignor.)
- Foley, R. T., assignor to T. J. and R. T. Foley, New York, N. Y. Valve. No. 935,842; Oct. 5; Sp. p. 513; Gaz. vol. 147; p. 74.
- Foley, T. J., *et al.* (See Foley, R. T., assignor.)
- Folger, H. C., Medford, Mass., assignor to Acme Manufacturing Company, Bangor, Me. Pipe-hanger. No. 934,663; Sept. 21; Sp. p. 3403; Gaz. vol. 146; p. 593.
- Folger, H. C., Medford, Mass., assignor to Acme Manufacturing Company, Bangor, Me. Pipe-hanger. No. 934,804; Sept. 21; Sp. p. 3681; Gaz. vol. 146; p. 639.
- Folger, H. C., Medford, Mass., assignor to Acme Manufacturing Company, Bangor, Me. Adjustable roof-flange. No. 936,991; Oct. 12; Sp. p. 2873; Gaz. vol. 147; p. 480.
- Foll, G., Winnipeg, Manitoba, assignor of one-half to J. Young, Winnipeg, Canada. Air-compressor. No. 915,759; Mar. 23; Sp. p. 4362; Gaz. vol. 140; p. 775.
- Folly, I. J., Wiota, Iowa. Attachment for windmills. No. 909,175; Jan. 12; Sp. p. 1535; Gaz. vol. 138; p. 278.
- Folmer, W. F., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Focusing attachment for cameras. No. 911,001; Jan. 26; Sp. p. 5225; Gaz. vol. 138; p. 941.
- Folmer, W. F., assignor to Eastman Kodak Co., Rochester, N. Y. Projection apparatus. No. 912,299; Feb. 16; Sp. p. 2630; Gaz. vol. 139; p. 483.
- Folmer, W. F., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Focusing attachment for cameras. No. 922,411; May 18; Sp. p. 4749; Gaz. vol. 142; p. 823.
- Folmer, W. F., assignor to Eastman Kodak Co., Rochester, N. Y. Camera. No. 923,827; June 8; Sp. p. 1651; Gaz. vol. 143; p. 274.
- Folmer, W. F., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Photographic shutter. No. 932,331; Aug. 24; Sp. p. 5800; Gaz. vol. 145; p. 991.
- Folmer, W. F., assignor to Eastman Kodak Co., Rochester, N. Y. Camera. No. 932,457; Aug. 31; Sp. p. 5960; Gaz. vol. 145; p. 1039.
- Folmer, W. F., assignor to Eastman Kodak Company, Rochester, N. Y. Focusing device. No. 932,458; Aug. 31; Sp. p. 5969; Gaz. vol. 145; p. 1039.
- Folsom, A. W., Sherman, Tex. Refrigerating-package. No. 942,318; Dec. 7; Sp. p. 619; Gaz. vol. 149; p. 98.
- Folsom, E. C., Saginaw, Mich. Car-lighting system. No. 932,114; Aug. 24; Sp. p. 5298; Gaz. vol. 145; p. 903.
- Folsom, E. C., Logansport, Ind., assignor of one-third to W. M. Simpson, Chicago, Ill., and one-third to J. J. Brennan, Fort Wayne, Ind. Overhead-trolley switch. No. 921,217; May 11; Sp. p. 2297; Gaz. vol. 142; p. 403.
- Folsom, G. H., Gordon, and A. Russell, Merriman, Nebr. Safety neck-yoke ring. No. 930,064; Aug. 3; Sp. p. 932; Gaz. vol. 145; p. 149.
- Foltz, F. M. (See Archer, J. T., assignor.)
- Foltz, W. E., Detroit, Mich. Valve-stem lubricator and packing. No. 940,143; Nov. 16; Sp. p. 3758; Gaz. vol. 148; p. 641.
- Fonde, G. H., *et al.* (See Brodton, E. R., assignor.)



*Alphabetical list of patentees—Continued.*

- Fondren, T. R., Lancaster, Tex. Check-valve for locomotive-boilers and the like. No. 940,453; Nov. 16; Sp. p. 4473; Gaz. vol. 148; p. 747.
- Fones, J. H., Oakland, Cal. Oil-burner. No. 933,970; Sept. 14; Sp. p. 2053; Gaz. vol. 146; p. 338.
- Fonner, J. W., Wheeling, W. Va. Automatic traveling tilt-table. No. 916,853; Mar. 30; Sp. p. 6448; Gaz. vol. 140; p. 1151.
- Font, V., Habana, Cuba. Building structure. No. 939,000; Nov. 2; Sp. p. 1185; Gaz. vol. 148; p. 190.
- Fontaine, A., Northampton, Mass. Metallizing. No. 923,423; June 1; Sp. p. 703; Gaz. vol. 143; p. 104.
- Fontecha, J. M. S., Mexico, Mexico. Safety device for polyphase-currents machinery. No. 934,063; Sept. 14; Sp. p. 2219; Gaz. vol. 146; p. 367.
- Foon, D., New York, N. Y. Ironing-machine. No. 934,984; Sept. 21; Sp. p. 4042; Gaz. vol. 146; p. 702.
- Foos Manufacturing Company. (See Adelsperger, D. L., assignor.)
- Foot, F. M., Marshall, Mich. Roller-bearing. No. 942,252; Dec. 7; Sp. p. 479; Gaz. vol. 149; p. 74.
- Foot, L. A., Chicago, Ill. Seal. No. 920,449; May 4; Sp. p. 728; Gaz. vol. 142; p. 116.
- Foot, M. A. (See Frost, E. C., assignor.)
- Foot, T. M., Boston, assignor to P. B. Bradley, Hingham, Mass. Speed-indicating and distance-recording mechanism. No. 937,231; Oct. 19; Sp. p. 3400; Gaz. vol. 147; p. 589.
- Forbes, C. E., and A. Singer, assignors to Webster and Perks Tool Company, Springfield, Ohio. Folding table. No. 939,824; Nov. 9; Sp. p. 3030; Gaz. vol. 148; p. 499.
- Forbes, J. S. (See Perkins and Forbes.)
- Forbes, W. A., Butler, Ohio. Fodder-binding truck. No. 925,470; June 22; Sp. p. 4982; Gaz. vol. 143; p. 879.
- Forbes, W. D., Ogden, Utah. Apparel apparatus. No. 928,437; July 20; Sp. p. 3616; Gaz. vol. 144; p. 638.
- Ford, A. J., New York, N. Y., assignor to Fuchs and Lang Manufacturing Company. Throw-out mechanism. No. 913,119; Feb. 23; Sp. p. 4323; Gaz. vol. 139; p. 782.
- Ford, A. J., New York, N. Y., assignor to Fuchs and Lang Manufacturing Company. Delivery mechanism. No. 914,561; Mar. 9; Sp. p. 1909; Gaz. vol. 140; p. 325.
- Ford, A. J., New York, N. Y., assignor to Fuchs and Lang Manufacturing Company. Plate-clamp. No. 915,088; Mar. 16; Sp. p. 2947; Gaz. vol. 140; p. 524.
- Ford, A. J., New York, N. Y., assignor to Fuchs and Lang Manufacturing Company. Printing-press. No. 915,948; Mar. 23; Sp. p. 4704; Gaz. vol. 140; p. 835.
- Ford, A. J., New York, N. Y., assignor to Fuchs and Lang Manufacturing Company. Moistening mechanism for printing-presses. No. 916,432; Mar. 30; Sp. p. 5622; Gaz. vol. 140; p. 1019.
- Ford, A. J., New York, N. Y., assignor to Fuchs and Lang Manufacturing Company. Inking mechanism for printing-presses. No. 917,037; Apr. 6; Sp. p. 155; Gaz. vol. 141; p. 30.
- Ford, A. J., New York, N. Y., assignor to Fuchs and Lang Manufacturing Company. Feed mechanism for printing-presses. No. 936,108; Oct. 5; Sp. p. 1069; Gaz. vol. 147; p. 163.
- Ford, B., Philadelphia, Pa. Vented stopper for storage-battery jars. No. 915,339; Mar. 16; Sp. p. 3472; Gaz. vol. 140; p. 606.
- Ford, B., Philadelphia, Pa. Storage-battery plate. No. 921,391; May 11; Sp. p. 2681; Gaz. vol. 142; p. 460.
- Ford, B., Philadelphia, Pa. Electric storage battery. No. 930,065; Aug. 3; Sp. p. 933; Gaz. vol. 145; p. 150.
- Ford, B. F., Chevy Chase, Md. Spool-holder. No. 911,964; Feb. 9; Sp. p. 1919; Gaz. vol. 139; p. 337.
- Ford, C., and D. F. Helmer, Grand Rapids, Mich. Rotary engine. No. 912,948; Feb. 16; Sp. p. 3969; Gaz. vol. 139; p. 698.
- Ford, C. B., Burlington, Kans. Weather-strip. No. 922,873; May 25; Sp. p. 5749; Gaz. vol. 142; p. 1002.
- Ford, C. M., Castalia, Ohio. Sled-runner. No. 909,775; Jan. 12; Sp. p. 2697; Gaz. vol. 138; p. 477.
- Ford, E. H., and E. A. Cunniff, assignors of one-third to E. M. Almy, New Bedford, Mass. Means for attaching bobbins to spindles. No. 925,689; June 22; Sp. p. 5425; Gaz. vol. 143; p. 949.
- Ford, E. L. (See Phillips, T. M., assignor.)
- Ford, E. N., *et al.* (See Orr, A. S. and L. D., assignors.)
- Ford, E. T., St. Louis, Mo. Dynamo-drive for car-trucks. No. 909,573; Jan. 12; Sp. p. 2304; Gaz. vol. 138; p. 408.
- Ford, G. B., Cambridge, Ohio. Tool-holding device. No. 935,361; Sept. 28; Sp. p. 4806; Gaz. vol. 146; p. 850.
- Ford, G. J., Quincy, Ill. Mail-bag crane. No. 928,117; July 13; Sp. p. 2913; Gaz. vol. 144; p. 495.
- Ford, G. R., Hartford, Conn. Display-stand. No. 910,659; Jan. 26; Sp. p. 4578; Gaz. vol. 138; p. 832.
- Ford, H. E., and F. E. Taylor, Detroit, Mich. Painting-machine. No. 928,374; July 20; Sp. p. 3496; Gaz. vol. 144; p. 618.
- Ford, H. H., assignor of one-half to H. H. De Loss, Bridgeport, Conn. Means for attaching demountable rims. No. 940,243; Nov. 16; Sp. p. 3973; Gaz. vol. 148; p. 676.
- Ford, H. L., Ottumwa, Iowa. Concrete fence-post. No. 911,584; Feb. 9; Sp. p. 1093; Gaz. vol. 139; p. 213.
- Ford, J. C. (See Lourie, Devero, and Ford.)
- Ford, J. I., Niantic, Ill. Car and engine retractor. No. 936,439; Oct. 12; Sp. p. 1784; Gaz. vol. 147; p. 296.
- Ford, J. W., assignor to Automatic Scale Company, Alton, Ill. Tare-weight. No. 928,745; July 20; Sp. p. 4241; Gaz. vol. 144; p. 739.
- Ford, P., Chicago, Ill. Fountain bath-brush. No. 919,844; Apr. 27; Sp. p. 6197; Gaz. vol. 141; p. 1057.
- Ford, R. L. (See Dann and Ford.)
- Ford, T. B. (See Ford, T. P. and T. B.)
- Ford, T. B., New York, N. Y. High-pressure hose. No. 916,136; Mar. 23; Sp. p. 5056; Gaz. vol. 140; p. 896.
- Ford, T. P., New York, N. Y. Reducing-valve. No. 932,262; Aug. 24; Sp. p. 5586; Gaz. vol. 145; p. 952.
- Ford, T. P. and T. B., New York, N. Y. Automatic refilling apparatus for pressure-tanks. No. 909,574; Jan. 12; Sp. p. 2306; Gaz. vol. 138; p. 408.
- Ford, U. G. (See Needs, A. G., assignor.)
- Ford, W. A., assignor of one-half to J. Yadon, Tekoa, Wash. Gate. No. 913,120; Feb. 23; Sp. p. 4325; Gaz. vol. 139; p. 782.
- Ford, W. B., Decatur, Ill. Pipe-tapping machine. No. 936,618; Oct. 12; Sp. p. 2158; Gaz. vol. 147; p. 357.
- Fore River Ship Building Company. (See Simpson, G., assignor.)
- Foregger, R. von, assignor to Roessler & Hasslacher Chemical Co., New York, N. Y. Apparatus for regenerating air. No. 915,760; Mar. 23; Sp. p. 4365; Gaz. vol. 140; p. 775.
- Foregger, R. von, Bensonhurst, assignor to Roessler & Hasslacher Chemical Company, New York, N. Y. Gas-generator. No. 916,291; Mar. 23; Sp. p. 5339; Gaz. vol. 140; p. 946.
- Foregger, R. von, assignor to Roessler & Hasslacher Chemical Company, New York, N. Y. Topical remedy. No. 916,692; Mar. 30; Sp. p. 6163; Gaz. vol. 140; p. 1104.
- Forehand, B., Mullen, Tex. Mail-bag. No. 931,853; Aug. 24; Sp. p. 4715; Gaz. vol. 145; p. 817.
- Foreman, A. L., Philadelphia, Pa. Bottle-crate. No. 915,581; Mar. 16; Sp. p. 3970; Gaz. vol. 140; p. 685.
- Foreman, I., and J. L. Thornton, assignors to Pressed Wood Co., Los Angeles, Cal. Artificial fuel. No. 912,554; Feb. 16; Sp. p. 3171; Gaz. vol. 139; p. 569.
- Foresman, W. B. (See Morehouse, S. A., assignor.)
- Forest City Knitting Company. (See Nelson, F. and J. F., assignors.)
- Forestelle, P., Bridgeport, Conn. Window-sash tightener. No. 933,425; Sept. 7; Sp. p. 874; Gaz. vol. 146; p. 136.
- Forester, L., assignor of one-half to B. B. Millison, Steubenville, Ohio. Air-brush. No. 920,855; May 4; Sp. p. 1546; Gaz. vol. 142; p. 249.
- Forged Steel Wheel Company. (See Christianson, A., assignor.)
- Forged Steel Wheel Company. (See Hansen, J. M., assignor.)
- Forger, H. C., Medford, Mass., assignor to Acme Manufacturing Company, Bangor, Me. Trap. No. 934,664; Sept. 21; Sp. p. 3404; Gaz. vol. 146; p. 594.
- Forget, R. G. (See Viguie and Forget.)
- Forkearth, J. F., Innsbruck, Austria-Hungary, assignor, by mesne assignments, to L. S. Burrige, New York, N. Y. Type-writing machine. No. 918,308; Apr. 13; Sp. p. 2734; Gaz. vol. 141; p. 485.
- Forkearth, J. F., Innsbruck, Austria-Hungary, assignor to F. Schrey, Berlin, Germany. Type-writing machine. No. 936,229; Oct. 5; Sp. p. 1297; Gaz. vol. 147; p. 198.
- Forke, J. O., New York, N. Y. Transmission apparatus. No. 927,961; July 13; Sp. p. 2633; Gaz. vol. 144; p. 448.
- Forkner, H. A., and J. B. Milum, Joplin, Mo. Collapsible crate. No. 908,938; Jan. 5; Sp. p. 1152; Gaz. vol. 138; p. 183.
- Forman, G. L., Louisville, Ky. Harness-stay. No. 911,965; Feb. 9; Sp. p. 1921; Gaz. vol. 139; p. 338.
- Forman, G. L., Louisville, Ky. Winker-brace. No. 911,966; Feb. 9; Sp. p. 1923; Gaz. vol. 139; p. 338.
- Forman, R. J., Brooklyn, N. Y. Mechanical movement. No. 922,467; May 25; Sp. p. 4883; Gaz. vol. 142; p. 870.
- Formander, A. (See Cooke and Formander.)
- Formari, G., Milan, Italy. Ladder. No. 917,576; Apr. 6; Sp. p. 1196; Gaz. vol. 141; p. 210.
- Forney, H. H., San Francisco, and O. B. Schoenky, Burlingame, Cal. Load-regulated brake mechanism. No. 920,310; May 4; Sp. p. 461; Gaz. vol. 142; p. 71.
- Formonizini, V., New Britain, Conn. Apparatus for recovering kerosene-oil from water-bath. No. 929,204; July 27; Sp. p. 5181; Gaz. vol. 144; p. 918.
- Fornwalt, G. I., Warrensburg, Ill. Wagon-bed protector. No. 911,301; Feb. 2; Sp. p. 551; Gaz. vol. 139; p. 94.

*Alphabetical list of patentees—Continued.*

- Forrer, J. D., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Dynamo-electric machine. No. 931,116; Aug. 17; Sp. p. 3144; Gaz. vol. 145; p. 550.
- Forrester, J. (See Forrester, W., J., and J.)
- Forrester, W., J., and J., Larbert, Scotland. Machine for filling bottles with aerated waters. No. 927,228; July 6; Sp. p. 1089; Gaz. vol. 144; p. 177.
- Forsberg, C. A., Rockford, Ill. Air and gas mixer. No. 930,656; Aug. 10; Sp. p. 2127; Gaz. vol. 145; p. 371.
- Forsberg, E. A. (See Ljungström and Forsberg)
- Forsberg, M., New York, N. Y. Polishing and cleaning machine. No. 920,943; May 11; Sp. p. 1741; Gaz. vol. 142; p. 309.
- Forschler, P., New Orleans, La. Vehicle. No. 919,337; Apr. 27; Sp. p. 5108; Gaz. vol. 141; p. 886.
- Forschler, P., New Orleans, La. Envelop. No. 941,924; Nov. 30; Sp. p. 7637; Gaz. vol. 148; p. 1286.
- Forsell, F. E., assignor to Attleboro Chain Company, Attleboro, Mass. Springing-snap. No. 917,038; Apr. 6; Sp. p. 157; Gaz. vol. 141; p. 30.
- Forsell, F. E., assignor to Attleboro Chain Company, Attleboro, Mass. Watch-chain hook. No. 917,039; Apr. 6; Sp. p. 158; Gaz. vol. 141; p. 30.
- Forshall, F. W., Chicago, Ill. Printing-press. No. 909,776; Jan. 12; Sp. p. 2697; Gaz. vol. 138; p. 477.
- Forshay, H. C., New York, N. Y. Folding chair. No. 911,226; Feb. 2; Sp. p. 399; Gaz. vol. 139; p. 69.
- Forslund, H. W., assignor to J. W. Reedy Elevator Manufacturing Company, Chicago, Ill. Controller-frame. No. 917,858; Apr. 13; Sp. p. 1794; Gaz. vol. 141; p. 330.
- Forsman, H., Fresno, Cal. Faucet. No. 943,346; Dec. 14; Sp. p. 2832; Gaz. vol. 149; p. 476.
- Forst, J. P., St. Paul, Nebr. Fly-wheel attachment for mowers. No. 911,122; Feb. 2; Sp. p. 189; Gaz. vol. 139; p. 36.
- Forst, M., assignor of forty-nine one-hundredths to himself, seventeen one-hundredths to E. Linhardt, seventeen one-hundredths to H. N. Kuttner, and seventeen one-hundredths to G. Pohlmann, New York, N. Y. Non-refillable bottle. No. 914,129; Mar. 2; Sp. p. 1020; Gaz. vol. 140; p. 161.
- Forster, G. R., Fithian, Ill. Current-collector. No. 939,995; Nov. 16; Sp. p. 3409; Gaz. vol. 148; p. 587.
- Forster, H. J., Chicago, Ill. Drill extension. No. 921,644; May 11; Sp. p. 3192; Gaz. vol. 142; p. 546.
- Forster, H. J., Chicago, Ill. Ratchet and drill extension. No. 939,900; Nov. 9; Sp. p. 3184; Gaz. vol. 148; p. 526.
- Forster, J. B., St. Marys, Pa. Antirattler shaft-coupling. No. 936,230; Oct. 5; Sp. p. 1301; Gaz. vol. 147; p. 199.
- Forster, P. M. (See Forster, W. J. and P. M.)
- Forster, W. J. and P. M., Berkeley, Cal. Plumbing joint-fitting and attachment. No. 939,001; Nov. 2; Sp. p. 1190; Gaz. vol. 148; p. 190.
- Forstner, T., New Ulm, Minn. Snap-hook. No. 931,588; Aug. 17; Sp. p. 4111; Gaz. vol. 145; p. 708.
- Forsyth Brothers Company. (See Forsyth, H. H., assignor.)
- Forsyth, C. E. (See Ellett and Forsyth.)
- Forsyth, C. F., Washington, D. C., and F. C. Wallace, Drummond, Md. Device for removing bottle-caps. No. 941,865; Nov. 30; Sp. p. 1754; Gaz. vol. 148; p. 1266.
- Forsyth, G. H., Chicago, Ill. Metal window. No. 914,651; Mar. 9; Sp. p. 2076; Gaz. vol. 140; p. 354.
- Forsyth, G. H., Chicago, Ill. Strain-resisting mechanism. No. 923,040; May 25; Sp. p. 6063; Gaz. vol. 142; p. 1055.
- Forsyth, G. H., Chicago, Ill. Draft-rigging mechanism. No. 925,167; June 15; Sp. p. 4409; Gaz. vol. 143; p. 753.
- Forsyth, G. H., Chicago, Ill. Curtain-fixture. No. 928,910; July 20; Sp. p. 4573; Gaz. vol. 144; p. 796.
- Forsyth, G. H., Chicago, Ill. Metal-window construction. No. 941,018; Nov. 23; Sp. p. 5688; Gaz. vol. 148; p. 960.
- Forsyth, G. T., Portland, Ore. Derrick pile-driver. No. 914,403; Mar. 9; Sp. p. 1603; Gaz. vol. 140; p. 273.
- Forsyth, H. H., assignor, by mesne assignments, to Forsyth Brothers Company, Chicago, Ill. Metalsash. No. 939,407; Nov. 9; Sp. p. 2146; Gaz. vol. 148; p. 356.
- Forsyth, J. E., Chicago, Ill. Coupling for train-pipes, &c. No. 941,066; Nov. 23; Sp. p. 5783; Gaz. vol. 148; p. 976.
- Forsyth, W. M. (See Lackie, W. J., assignor.)
- Forsythe, J. A. (See Fowles and Forsythe.)
- Forsythe, L., Dawson, Pa. Wrench. No. 924,444; June 8; Sp. p. 2907; Gaz. vol. 143; p. 476.
- Fort Dearborn Manufacturing Company. (See Olson, G. O., assignor.)
- Fort, F. W. (See Fox, W. A., assignor.)
- Fort, K. W. (See Greene and Fort.)
- Fort Pitt Bridge Works. (See Berger and Beazell, assignors.)
- Fort Pitt Spring & Manufacturing Co. (See French, R. A., assignor.)
- Fort Pitt Spring & Manufacturing Co. (See French and Girdler, assignors.)
- Fort Pitt Supply Company. (See Young and Robertshaw, assignors.)
- Fort Wayne Electric Works. (See Morganthaler, P. C., assignor.)
- Forter Miller Engineering Company. (See Miller, W. R., assignor.)
- Forter-Miller Engineering Company. (See Waldburger, J. A., assignor.)
- Fortescue, C. Le G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer structure. No. 914,941; Mar. 9; Sp. p. 2678; Gaz. vol. 140; p. 449.
- Fortescue, G. E., Arncliffe, New South Wales, Australia. Metallic tire. No. 924,156; June 8; Sp. p. 2315; Gaz. vol. 143; p. 380.
- Forth, M. J., assignor, by mesne assignments, of one-half to J. Leake, Boston, Mass. Coin-controlled vending apparatus. No. 942,253; Dec. 7; Sp. p. 480; Gaz. vol. 149; p. 75.
- Fortier, C. L., Milwaukee, Wis. Calorie engine. No. 914,562; Mar. 9; Sp. p. 1910; Gaz. vol. 140; p. 325.
- Fortinsky, J., et al. (See Garlick, W. J., assignor.)
- Fortuna, A., Manchester, N. H. Loom-temple. No. 929,417; July 27; Sp. p. 5640; Gaz. vol. 144; p. 990.
- Fortune, J. R., Detroit, Mich. Furnace fire-door. No. 939,996; Nov. 16; Sp. p. 3410; Gaz. vol. 148; p. 588.
- Fortune, J. R., Detroit, Mich. Furnace. No. 939,997; Nov. 16; Sp. p. 3412; Gaz. vol. 148; p. 583.
- Fortune, J. R., assignor to Murphy Iron Works, Detroit, Mich. Protecting-cap for furnace bridge-walls. No. 941,569; Nov. 30; Sp. p. 6877; Gaz. vol. 148; p. 1164.
- Forwood, W. E., Lodi, Cal. Swingletree. No. 918,840; Apr. 20; Sp. p. 3907; Gaz. vol. 141; p. 689.
- Fosdick, L. E., Liberty, Ind. Lifting device. No. 924,754; June 15; Sp. p. 3569; Gaz. vol. 143; p. 613.
- Fosnot, L. P., Reading, Pa., assignor, by mesne assignments, to Reading Standard Company. Carbureter for explosive-engines. No. 908,764; Jan. 5; Sp. p. 710; Gaz. vol. 138; p. 110.
- Fosnot, L. P., Reading, Pa., assignor, by mesne assignments, to Reading Standard Company. Carbureter for explosive-engines. No. 909,075; Jan. 5; Sp. p. 1313; Gaz. vol. 138; p. 211.
- Foss, A. R., Lawrence, Mass. Puzzle. No. 922,874; May 25; Sp. p. 5750; Gaz. vol. 142; p. 1002.
- Foss, B. F., Fairfield, Me. Trolley-head. No. 940,309; Nov. 16; Sp. p. 4138; Gaz. vol. 148; p. 698.
- Foss, H. A., Albion, Me. Light-projecting attachment for firearms. No. 924,445; June 8; Sp. p. 2908; Gaz. vol. 143; p. 476.
- Foss Manufacturing Company. (See Ritter and McCorkle, assignors.)
- Foss, W. O., assignor to F. C. Brunhouse, Philadelphia, Pa. Speed-changing mechanism. No. 928,648; July 20; Sp. p. 4056; Gaz. vol. 144; p. 706.
- Fosselman, C. A., Waverly, Iowa. Bottle-labeling machine. No. 930,464; Aug. 10; Sp. p. 1692; Gaz. vol. 145; p. 306.
- Foster, A., Pasadena, and E. W. Foster, Los Angeles, Cal. Constructing buildings and apparatus therefor. No. 921,820; May 18; Sp. p. 3560; Gaz. vol. 142; p. 631.
- Foster Brothers Manufacturing Company. (See Frank, W. E., assignor.)
- Foster, C. (See Raynor and Foster.)
- Foss, C. C., and C. L. White, Quitman, Ga. Wheel. No. 942,819; Dec. 7; Sp. p. 1617; Gaz. vol. 149; p. 266.
- Foster, C. E., et al. (See Gibson, O., assignor.)
- Foster, C. E., Rochester, N. Y. Pyrometer. No. 933,543; Sept. 7; Sp. p. 1198; Gaz. vol. 146; p. 174.
- Foster, C. H., St. Louis, Mo. Range-boiler stand. No. 909,777; Jan. 12; Sp. p. 2701; Gaz. vol. 138; p. 477.
- Foster, C. H., Cleveland, Ohio. Valve. No. 913,632; Feb. 23; Sp. p. 5422; Gaz. vol. 139; p. 955.
- Foster, C. H., Pittsburg, Pa. Means to prevent overturning of locomotive-bells. No. 915,023; Mar. 9; Sp. p. 2811; Gaz. vol. 140; p. 476.
- Foster, C. H., Cleveland, Ohio. Shock-absorbing device. No. 918,429; Apr. 13; Sp. p. 2969; Gaz. vol. 141; p. 523.
- Foster, C. H., Cleveland, Ohio. Shock-absorbing device for vehicles. No. 918,987; Apr. 20; Sp. p. 4229; Gaz. vol. 141; p. 738.
- Foster, C. M. (See Dodge and Foster.)
- Foster, C. M., assignor to Toledo Pipe Threading Machine Company, Toledo, Ohio. Pipe-threading machine. No. 922,120; May 18; Sp. p. 4163; Gaz. vol. 142; p. 728.
- Foster, C. S. and J. H., assignors to Fales & Jenks Machine Company, Pawtucket, R. I. Spindle. No. 921,218; May 11; Sp. p. 2298; Gaz. vol. 142; p. 403.
- Foster, D. F., West Union, Iowa. Kettle-cover. No. 932,774; Aug. 31; Sp. p. 6680; Gaz. vol. 145; p. 1146.
- Foster, D. S., Syracuse, N. Y. Aeroplane. No. 937,587; Oct. 19; Sp. p. 4157; Gaz. vol. 147; p. 708.
- Foster, E. A., Sandusky, Ohio. Blind. No. 932,263; Aug. 24; Sp. p. 5589; Gaz. vol. 145; p. 953.
- Foster, E. H., New York, N. Y. Steam-superheater. No. 913,277; Feb. 23; Sp. p. 4648; Gaz. vol. 139; p. 834.



*Alphabetical list of patentees—Continued.*

- Foster, E. H., and J. Primrose, New York, N. Y. Steam-superheater. No. 938,568; Nov. 2; Sp. p. 290; Gaz. vol. 148; p. 42.
- Foster, E. W. (See Foster, A. and E. W.)
- Foster Engineering Company. (See Krichbaum, W. F., assignor.)
- Foster, F., Detroit, Mich. Drier. No. 924,051; June 8; Sp. p. 2071; Gaz. vol. 143; p. 345.
- Foster, F. E., Sapulpa, Okla. Derrick-bracing means. No. 937,299; Oct. 19; Sp. p. 3537; Gaz. vol. 147; p. 611.
- Foster, F. H., assignor to Foster and Williams Manufacturing Company, Racine, Wis. Paper-pad holder. No. 918,743; Apr. 20; Sp. p. 3709; Gaz. vol. 141; p. 658.
- Foster, G. M., assignor of one-half to W. P. Straw, Manchester, N. H. Warp stop-motion for looms. No. 911,002; Jan. 26; Sp. p. 5228; Gaz. vol. 138; p. 942.
- Foster, G. M., assignor of one-third to W. P. Straw, Manchester, N. H. Shuttle-box-operating mechanism for looms. No. 918,430; Apr. 13; Sp. p. 2972; Gaz. vol. 141; p. 523.
- Foster, G. W., Lowell, Mass. Yarn-clearer or slub-catcher. No. 939,490; Nov. 9; Sp. p. 2316; Gaz. vol. 148; p. 384.
- Foster, H., Wolcott, Ind. Storm-front for wagons. No. 939,998; Nov. 16; Sp. p. 3416; Gaz. vol. 148; p. 588.
- Foster, H. S. (See Collier, A. T., assignor.)
- Foster, H. S., assignor of one-half to E. E. Hancock, Philadelphia, Pa. Safety device for car-brakes. No. 927,847; July 13; Sp. p. 2390; Gaz. vol. 144; p. 409.
- Foster, J. A., Heiskell, Tenn. Railway-frog. No. 940,523; Nov. 16; Sp. p. 4621; Gaz. vol. 148; p. 770.
- Foster, J. B., Newark, N. J. Paper-holding device. No. 934,905; Sept. 21; Sp. p. 3871; Gaz. vol. 146; p. 673.
- Foster, J. H. (See Foster, C. S. and J. H.)
- Foster, J. W. (See Hunter and Foster.)
- Foster, J. W., assignor of one-half to A. Sabel, Jacksonville, Fla. Pad for horse-collars. No. 927,721; July 13; Sp. p. 2124; Gaz. vol. 144; p. 368.
- Foster, J. W., assignor of one-half to A. Sabel, Jacksonville, Fla. Aerial toy. No. 929,759; Aug. 3; Sp. p. 270; Gaz. vol. 145; p. 46.
- Foster, J. W., assignor of twenty one-hundredths to A. Sabel, Jacksonville, Fla. Railway-switch. No. 935,899; Oct. 5; Sp. p. 640; Gaz. vol. 147; p. 93.
- Foster, J. W., assignor of one-half to A. Sabel, Jacksonville, Fla. Shipping-tag. No. 938,310; Oct. 26; Sp. p. 5688; Gaz. vol. 147; p. 968.
- Foster, L. C., Fulton, N. Y. Non-refillable bottle. No. 940,962; Nov. 23; Sp. p. 5563; Gaz. vol. 148; p. 941.
- Foster, Merriam and Company. (See Palmer, H. A., assignor.)
- Foster, N. L., trustee. (See Mears and Ellis, assignors.)
- Foster, N. L., New Rochelle, N. Y., assignor to Ellis-Foster Company. Fly-tape. No. 919,149; Apr. 20; Sp. p. 4521; Gaz. vol. 141; p. 790.
- Foster, N. T., and B. M. Dreska, Chester, Ill. Lock. No. 941,570; Nov. 30; Sp. p. 6879; Gaz. vol. 148; p. 1165.
- Foster, O. B., Old Monroe, Mo. Bridle. No. 912,300; Feb. 16; Sp. p. 2632; Gaz. vol. 139; p. 483.
- Foster, P., Fairfield, Me. Cutter-guard. No. 935,481; Sept. 28; Sp. p. 5021; Gaz. vol. 146; p. 887.
- Foster, R. de L., and G. Schulz, San Diego, Cal. Reinforced concrete construction. No. 931,049; Aug. 17; Sp. p. 2993; Gaz. vol. 145; p. 528.
- Foster, S. C., Nashville, Tenn. Wrench. No. 940,524; Nov. 16; Sp. p. 4622; Gaz. vol. 148; p. 771.
- Foster, W. E., Edgewood Park, assignor to Union Switch & Signal Company, Swissvale, Pa. Multiple-unit deflecting-bar stand for switch and signal operating lines. No. 911,003; Jan. 26; Sp. p. 5230; Gaz. vol. 138; p. 942.
- Foster, W. J., Schenectady, N. Y., assignor to General Electric Company. Electrical apparatus. No. 924,977; June 15; Sp. p. 4043; Gaz. vol. 143; p. 689.
- Foster and Williams Manufacturing Company. (See Foster, F. H., assignor.)
- Foston, J. C., *et al.* (See Mosher, Roche and Foston.)
- Fothergill, T. W., assignor of one-half to B. Reed, Berlin Mills, N. H. Electrothermostatic regulator. No. 915,582; Mar. 16; Sp. p. 3972; Gaz. vol. 140; p. 686.
- Fothergill, W. H., Philadelphia, Pa. Stud-pin and seat therefor. No. 909,575; Jan. 12; Sp. p. 2308; Gaz. vol. 138; p. 409.
- Fouch Disc Wheel Company. (See Fouch, J. R., assignor.)
- Fouch, J. R., assignor to Fouch Disc Wheel Company, Minneapolis, Minn. Vehicle-wheel. No. 924,334; June 8; Sp. p. 2707; Gaz. vol. 143; p. 441.
- Fouche, B. A. (See Grover, B. W., assignor.)
- Foulds, A. J. and H. A., Lansdowne, Pa. Spinning and winding machine. No. 911,815; Feb. 9; Sp. p. 1550; Gaz. vol. 139; p. 288.
- Foulds, H. A. (See Foulds, A. J. and H. A.)
- Foulkrod, J. S., and F. P. Moitz, Frankford, Pa. Rail-joint. No. 921,689; May 18; Sp. p. 3301; Gaz. vol. 142; p. 587.
- Foulks, G. H., Allegheny, assignor to A. T. Godfrey, Dunbar, Pa. Curtain-pole. No. 917,426; Apr. 6; Sp. p. 937; Gaz. vol. 141; p. 163.
- Foulois, W. H., Washington Depot, Conn. Water-closet coupling. No. 911,486; Feb. 2; Sp. p. 869; Gaz. vol. 139; p. 154.
- Fountain, J. M., East Macon, Ga. Rail-fastening. No. 915,423; Mar. 16; Sp. p. 3639; Gaz. vol. 140; p. 634.
- Fountain, M. A., Bloomfield, Iowa. Reverse-link. No. 937,677; Oct. 19; Sp. p. 4317; Gaz. vol. 147; p. 736.
- Fountain, W. J., Chicago, Ill. Combined sofa and bed. No. 932,264; Aug. 24; Sp. p. 5589; Gaz. vol. 145; p. 953.
- Fourcault, E., Lodelinsart, Belgium. Method of and apparatus for drawing continuous sheets of glass. No. 941,866; Nov. 30; Sp. p. 7525; Gaz. vol. 148; p. 1266.
- Fourcher, H. E., Augusta, Ga. Hand cotton-picker. No. 923,638; June 1; Sp. p. 1171; Gaz. vol. 143; p. 180.
- Fourneaux, E. A., Manchester, England, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Obtaining paranitrillin red, &c. No. 913,633; Feb. 23; Sp. p. 5424; Gaz. vol. 139; p. 955.
- Fourneaux, E. A., Manchester, England, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Obtaining paranitrillin red, &c. No. 913,634; Feb. 23; Sp. p. 5427; Gaz. vol. 139; p. 955.
- Fournier, J. B., Paris, France. System for producing a vapor by a liquefied gas. No. 915,583; Mar. 16; Sp. p. 3975; Gaz. vol. 140; p. 686.
- Fournier, J. B., Paris, France. Electric-arc lamp. No. 932,773; Aug. 31; Sp. p. 6678; Gaz. vol. 145; p. 1146.
- Fouts, G. S., deceased, Alameda, Cal.; H. J. Fouts, administratrix. Switch for automatic cable-chain-grip systems. No. 920,856; May 4; Sp. p. 1547; Gaz. vol. 142; p. 250.
- Fouts, G. S., deceased, Alameda, Cal.; H. J. Fouts administratrix. Switch for automatic cable-chain-grip systems. No. 926,058; June 22; Sp. p. 6203; Gaz. vol. 143; p. 1071.
- Fouts, H. J., administratrix. (See Fouts, G. S.)
- Fowden, R. A., Germantown, Pa., assignor to United States Electric Rock Drill Company, Dover, Del. Rock-drill. No. 933,702; Sept. 7; Sp. p. 1508; Gaz. vol. 146; p. 227.
- Fowden, W. T., Chester, Pa. Blow-off valve or cock. No. 944,025; Dec. 21; Sp. p. 4292; Gaz. vol. 149; p. 739.
- Fowden, W. T., Chester, Pa. Valve. No. 944,026; Dec. 21; Sp. p. 4295; Gaz. vol. 149; p. 740.
- Fowler, A. E. (See Graham and Fowler.)
- Fowler, C. C., *et al.* (See Woods, J., assignor.)
- Fowler, C. E., Chicago, Ill. Safety ring-tray. No. 914,563; Mar. 9; Sp. p. 1913; Gaz. vol. 140; p. 326.
- Fowler, C. H., and E. A. Medley, Great Crosby, Liverpool, England. Apparatus for subjecting gas or vapors to the action of liquids. No. 928,118; July 13; Sp. p. 2915; Gaz. vol. 144; p. 498.
- Fowler, C. M., assignor to G. C. Sevey, Springfield, Mass. Sash-fastener. No. 916,137; Mar. 23; Sp. p. 5057; Gaz. vol. 140; p. 896.
- Fowler, C. V., Los Angeles, Cal. Screw-jack. No. 938,840; Nov. 2; Sp. p. 836; Gaz. vol. 148; p. 134.
- Fowler, D. M., Danville, Ill. Change-delivery device. No. 921,219; May 11; Sp. p. 2300; Gaz. vol. 142; p. 404.
- Fowler, E. C., and T. E. Daly, Pulaski, Tenn. Seed-planter. No. 942,495; Dec. 7; Sp. p. 934; Gaz. vol. 149; p. 158.
- Fowler, E. P., New York, N. Y. Liquid-conveyer. No. 930,465; Aug. 10; Sp. p. 1695; Gaz. vol. 145; p. 306.
- Fowler, E. P., New York, N. Y. Breast-pump. No. 940,454; Nov. 16; Sp. p. 4475; Gaz. vol. 148; p. 748.
- Fowler, G. W. (See Makean, D. O., assignor.)
- Fowler, H. G. (See Lansdale, M. F., assignor.)
- Fowler, H. N., assignor to M. C. Fowler, Chicago, Ill. Lamp. No. 914,259; Mar. 2; Sp. p. 1290; Gaz. vol. 140; p. 200.
- Fowler, J., Soperton, Ga. Hay-press. No. 918,524; Apr. 20; Sp. p. 3181; Gaz. vol. 141; p. 584.
- Fowler, J. D., Junction City, assignor of one-half to J. H. Kuhlman, Springfield, Ohio. Burial-vault. No. 929,847; Aug. 3; Sp. p. 483; Gaz. vol. 145; p. 77.
- Fowler, L. D., assignor of one-half to A. D. Marble, Oklahoma, Okla. Banana-crate. No. 920,311; May 4; Sp. p. 463; Gaz. vol. 142; p. 71.
- Fowler, M. B. (See Haas, G. W., assignor.)
- Fowler, M. C. (See Fowler, H. N., assignor.)
- Fowler, O. R., assignor to F. G. Palmerton, Saginaw, Mich. Metallic cover. No. 922,270; May 18; Sp. p. 4482; Gaz. vol. 142; p. 778.
- Fowler, R. W., Philadelphia, Pa. Shirt-holding mechanism for ironing-boards. No. 937,785; Oct. 26; Sp. p. 4569; Gaz. vol. 147; p. 791.
- Fowler, S. B., La Fayette, Ind. Relay mechanism. No. 931,854; Aug. 24; Sp. p. 4716; Gaz. vol. 145; p. 817.
- Fowler, S. B., assignor to Sterling Electric Company, La Fayette, Ind. Thermal protector. No. 937,062; Oct. 19; Sp. p. 3037; Gaz. vol. 147; p. 533.
- Fowler, W. E., Jr., Hammond, Ind., assignor to Simplex Railway Appliance Company, Chicago, Ill. Finger-guard for brake-beams. No. 919,565; Apr. 27; Sp. p. 5609; Gaz. vol. 141; p. 964.
- Fowler, W. E., Jr., Hammond, Ind., assignor to Simplex Railway Appliance Company, Chicago, Ill. Brake-head. No. 920,944; May 11; Sp. p. 1742; Gaz. vol. 142; p. 309.

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- Fowler, W. E., Jr., Hammond, Ind., assignor to Simplex Railway Appliance Company, Chicago, Ill. Car brake-head. No. 920,945; May 11; Sp. p. 1745; Gaz. vol. 142; p. 310.
- Fowler, W. E., Jr., Hammond, Ind., assignor to Simplex Railway Appliance Company, Chicago, Ill. Adjustable brake-head. No. 937,930; Oct. 26; Sp. p. 4361; Gaz. vol. 147; p. 839.
- Fowler, W. H., Selma, Ala. Line-check. No. 918,988; Apr. 20; Sp. p. 4232; Gaz. vol. 141; p. 739.
- Fowler, W. W., Riverdale, Md. Package-tie. No. 923,639; June 1; Sp. p. 1173; Gaz. vol. 143; p. 180.
- Fowles, H. F., and J. A. Forsythe, Spokane, Wash. Strainer. No. 909,076; Jan. 5; Sp. p. 1314; Gaz. vol. 138; p. 211.
- Fowlkes, B. L., Newbern, Tenn. Cigar-box holder. No. 911,712; Feb. 9; Sp. p. 1375; Gaz. vol. 139; p. 256.
- Fowshsee, W., et al. (See Koontz, N. J., assignor.)
- Fox, A. C., New York, N. Y. Alcohol-lamp. No. 924,654; June 15; Sp. p. 3358; Gaz. vol. 143; p. 579.
- Fox, A. E., assignor of one-half to W. Williams and E. Good, Redkey, Ind. Wheeled rake. No. 932,011; Aug. 24; Sp. p. 5082; Gaz. vol. 145; p. 869.
- Fox, A. E., and G. M. Reeves, assignors of one-fourth to W. Williams and B. W. Whitehair, Redkey, Ind. Disk harrow. No. 930,466; Aug. 10; Sp. p. 1699; Gaz. vol. 145; p. 307.
- Fox, A. E., and G. M. Reeves, assignors of one-fourth to W. Williams and B. W. Whitehair, Redkey, Ind. Disk for disk harrows. No. 930,951; Aug. 10; Sp. p. 2750; Gaz. vol. 145; p. 468.
- Fox, A. H., and G. A. Horne, Philadelphia, Pa., assignors, by mesne assignments, to A. H. Fox Gun Company. Breech-loading gun. No. 921,220; May 11; Sp. p. 2303; Gaz. vol. 142; p. 404.
- Fox, B. C., Chicago, Ill. Refuse-burner. No. 920,312; May 4; Sp. p. 465; Gaz. vol. 142; p. 72.
- Fox, C. (See Fox, G. H., assignor.)
- Fox, C., deceased, Stamford, Conn.; J. C. Eckert, administrator. Carbureter. No. 911,967; Feb. 9; Sp. p. 1926; Gaz. vol. 139; p. 338.
- Fox, C. E. (See Marshall and Fox.)
- Fox, C. F. (See Rolfe and Fox.)
- Fox, C. J. (See Reifenstein and Fox.)
- Fox, C. K. (See Webster, H. A., assignor.)
- Fox, E. C., Cleveland, Ohio. Hot-air register. No. 936,440; Oct. 12; Sp. p. 1786; Gaz. vol. 147; p. 296.
- Fox, F. A., assignor to Fox Metallic Tire Belt Company, New York, N. Y. Tire-chain. No. 911,585; Feb. 9; Sp. p. 1094; Gaz. vol. 139; p. 213.
- Fox, F. A., assignor to Fox Metallic Tire Belt Company, New York, N. Y. Attachment for tire-treads. No. 915,839; Mar. 23; Sp. p. 4505; Gaz. vol. 140; p. 800.
- Fox, F. A., assignor to Fox Metallic Tire Belt Company, New York, N. Y. Tire-tread attachment. No. 915,840; Mar. 23; Sp. p. 4507; Gaz. vol. 140; p. 800.
- Fox, F. A., assignor to Fox Metallic Tire Belt Company, New York, N. Y. Attachment for tire-treads. No. 915,841; Mar. 23; Sp. p. 4508; Gaz. vol. 140; p. 800.
- Fox, F. A., assignor to Fox Metallic Tire Belt Company, New York, N. Y. Attachment for tire-treads. No. 915,842; Mar. 23; Sp. p. 4510; Gaz. vol. 140; p. 801.
- Fox, F. A., assignor to Fox Metallic Tire Belt Company, New York, N. Y. Antiskid device for tires. No. 915,843; Mar. 23; Sp. p. 4512; Gaz. vol. 140; p. 801.
- Fox, F. A., assignor to Fox Metallic Tire Belt Company, New York, N. Y. Chain tightener and lock. No. 934,154; Sept. 14; Sp. p. 2425; Gaz. vol. 146; p. 399.
- Fox, G. H., assignor of one-half to C. Fox, Ligonier, Pa. Latch for the closing of end-gates. No. 929,641; July 27; Sp. p. 6078; Gaz. vol. 144; p. 1062.
- Fox, J. C., Seattle, Wash. Telephone attachment. No. 910,189; Jan. 19; Sp. p. 3550; Gaz. vol. 138; p. 646.
- Fox, J. H. (See Brazier and Fox.)
- Fox, J. H., Tacoma, Wash. Cistern-cleaner. No. 942,254; Dec. 7; Sp. p. 485; Gaz. vol. 149; p. 75.
- Fox, J. H., New York, N. Y. Ruler. No. 910,523; Jan. 26; Sp. p. 4287; Gaz. vol. 138; p. 787.
- Fox, L. N. (See Alwood, J. O., assignor.)
- Fox Metallic Tire Belt Company. (See Fox, F. A., assignor.)
- Fox, P., et al. (See Pomeroy, F., assignor.)
- Fox, T. F., et al. (See Pomeroy, F., assignor.)
- Fox, W., Peck, Mich. Governor. No. 922,689; May 25; Sp. p. 5340; Gaz. vol. 142; p. 942.
- Fox, W., Winnipeg, Manitoba, Canada. Combination-lock. No. 941,241; Nov. 23; Sp. p. 6172; Gaz. vol. 148; p. 1035.
- Fox, W. A., assignor to Greig Muslin Underwear Company, Potsdam, N. Y. Guiding device for sewing-machines. No. 915,761; Mar. 23; Sp. p. 4366; Gaz. vol. 140; p. 776.
- Fox, W. A., assignor of one-half to F. W. Fort, Newark, N. J. Shade-roller wrench. No. 919,566; Apr. 27; Sp. p. 5611; Gaz. vol. 141; p. 964.
- Fox, W. A., assignor to Greig Muslin Underwear Company, Potsdam, N. Y. Guiding device for sewing-machines. No. 925,471; June 22; Sp. p. 4983; Gaz. vol. 143; p. 879.
- Fox, W. A., assignor to Greig Muslin Underwear Company, Potsdam, N. Y. Guiding device for sewing-machines. No. 925,472; June 22; Sp. p. 4985; Gaz. vol. 143; p. 879.
- Fox, W. B., Breckenridge, Mich. Beat-lifting mechanism. No. 910,467; Jan. 19; Sp. p. 4165; Gaz. vol. 138; p. 746.
- Fox, W. R., Grand Rapids, Mich. Paper-feed for front-strike-type-writing machines. No. 912,660; Feb. 16; Sp. p. 3371; Gaz. vol. 139; p. 605.
- Fox, W. R., Grand Rapids, Mich. Ribbon-oscillator for visible type-writing machines. No. 931,855; Aug. 24; Sp. p. 4720; Gaz. vol. 145; p. 817.
- Foy, P., Roanoke, Va. Flower-pot stand. No. 936,619; Oct. 12; Sp. p. 2160; Gaz. vol. 147; p. 357.
- Foyer, M. J. (See Kurz, O., assignor.)
- Fradsham, T. C., Carson City, Nev. Knife. No. 948,184; Dec. 14; Sp. p. 2479; Gaz. vol. 149; p. 421.
- Fraehlich, T. M., Roundup, Mont. Hat-pin. No. 921,221; May 11; Sp. p. 2305; Gaz. vol. 142; p. 405.
- Frailey, J. E. (See McQuern, J. N., assignor.)
- Fraivillig, J. D., Schenectady, N. Y. Steam-turbine. No. 919,340; Apr. 27; Sp. p. 5112; Gaz. vol. 141; p. 887.
- Fraley, G. F., New York, N. Y. Photographic appliance. No. 931,050; Aug. 17; Sp. p. 2995; Gaz. vol. 145; p. 528.
- Fraley, J. C., Philadelphia, Pa. Iron wire and making the same. No. 931,856; Aug. 24; Sp. p. 4722; Gaz. vol. 145; p. 818.
- Frambach, A. S. (See Haynes, C. M., assignor.)
- Frambach, A. S., Newark, N. J. Bowl-holder. No. 927,722; July 13; Sp. p. 2126; Gaz. vol. 144; p. 368.
- Frambach, M. J., assignor of one-half to E. F. Broders, Hartley, Iowa. Antislipping attachment for tires. No. 939,491; Nov. 9; Sp. p. 2317; Gaz. vol. 148; p. 384.
- Frambes, L. S., Philadelphia, Pa. Combined ticket holder and counter. No. 933,943; Sept. 14; Sp. p. 1996; Gaz. vol. 146; p. 329.
- Frame, R. E., assignor to American Car & Foundry Company, St. Louis, Mo. Car-door-operating mechanism. No. 944,261; Dec. 28; Sp. p. 4769; Gaz. vol. 149; p. 843.
- Frame, R. E., St. Louis, and C. G. Harrington, Maplewood, assignors to American Car & Foundry Company, St. Louis, Mo. Steel box-car. No. 941,067; Nov. 23; Sp. p. 5787; Gaz. vol. 148; p. 976.
- Frame, R. E., St. Louis, and C. G. Harrington, Maplewood, assignors to American Car & Foundry Company, St. Louis, Mo. Metallic door. No. 941,068; Nov. 23; Sp. p. 5793; Gaz. vol. 148; p. 977.
- Frame, R. E., St. Louis, and C. G. Harrington, Maplewood, assignors to American Car & Foundry Company, St. Louis, Mo. Car-door hanger. No. 941,069; Nov. 23; Sp. p. 5794; Gaz. vol. 148; p. 977.
- Frame, R. E., and J. M. Rohlfing, assignors to American Car & Foundry Company, St. Louis, Mo. Log-car. No. 934,906; Sept. 21; Sp. p. 3872; Gaz. vol. 146; p. 673.
- Frame, W. J., Glasgow, Scotland. Hydraulic air and other gas suction apparatus. No. 924,335; June 8; Sp. p. 2708; Gaz. vol. 143; p. 441.
- Frampton, R. C., Swissvale, assignor to Pittsburgh Water Heater Company, Allegheny, Pa. Heater. No. 916,292; Mar. 23; Sp. p. 5541; Gaz. vol. 140; p. 946.
- France, J. P., Columbus, Ohio. Block-signal system for railroads. No. 912,371; Feb. 16; Sp. p. 2781; Gaz. vol. 139; p. 507.
- France, T. W., Providence, R. I., assignor to H. W. Butterworth & Sons Company, Philadelphia, Pa. Cloth-clamp for textile machinery. No. 943,067; Dec. 14; Sp. p. 2259; Gaz. vol. 149; p. 383.
- Franchot, R. (See Simpson and Franchot.)
- Francis, C. (See Francis, W. H., assignor.) (Reissue.)
- Francis, E. A., assignor of one-half to G. A. Howe, Marshalltown, Iowa. Weed-exterminator. No. 944,083; Dec. 21; Sp. p. 4408; Gaz. vol. 149; p. 759.
- Francis, E. M. (See Larock, F. J., assignor.)
- Francis, F. E., New York, N. Y. Tape-moistener. No. 910,803; Jan. 26; Sp. p. 4879; Gaz. vol. 138; p. 880.
- Francis, I., Fremont, Nebr. Barrel-head. No. 916,854; Mar. 30; Sp. p. 6450; Gaz. vol. 140; p. 1152.
- Francis, J., Westminster, London, England. Clip for metallic lathing. No. 927,137; July 6; Sp. p. 910; Gaz. vol. 144; p. 147.



*Alphabetical list of patentees—Continued.*

- Francis, W. H., Cherryvale, assignor to C. Francis, Independence, Kans. Brick-handling machine. (Reissue.) No. 13,022; Sept. 28; Sp. p. 5349; Gaz. vol. 146; p. 939.
- Francisco, F. C., Cuyahoga Falls, Ohio. Core-making machine. No. 927,848; July 13; Sp. p. 2392; Gaz. vol. 144; p. 409.
- Frandsen, N. P., Chicago, Ill. Concrete tie. No. 912,663; Feb. 16; Sp. p. 3383; Gaz. vol. 139; p. 607.
- Frank, A. R., Berlin, Germany. Treatment of carbid. No. 920,857; May 4; Sp. p. 1549; Gaz. vol. 142; p. 250.
- Frank Adam Electric Company. (See Adam, F. B., assignor.)
- Frank, D., *et al.* (See Schoettl, J., assignor.)
- Frank Disinfecting Company, P. M. (See Frank and Venners, assignors.)
- Frank, E., San Francisco, Cal. Heel-plate. No. 925,690; June 22; Sp. p. 5426; Gaz. vol. 143; p. 949.
- Frank, E., assignor to Frank Tea & Spice Company, Cincinnati, Ohio. Spice-box. No. 939,825; Nov. 9; Sp. p. 3033; Gaz. vol. 148; p. 500.
- Frank, E. M., and J. H. Venners, New York, N. Y., assignors to P. M. Frank Disinfecting Company. Liquid-soap-dispensing apparatus. No. 925,629; June 22; Sp. p. 5298; Gaz. vol. 143; p. 931.
- Frank, F., Berlin, Germany. Extracting fatty substances from fresh (unbroken) oil-fruits, moist raw wool, and the like. No. 915,169; Mar. 16; Sp. p. 3137; Gaz. vol. 140; p. 550.
- Frank, G. W., *et al.* (See Frank, W. V., assignor.)
- Frank Holton & Company. (See Holton, F., assignor.)
- Frank, J. E. (See Sullivan, W. H., assignor.)
- Frank, J. J., Schenectady, N. Y., assignor to General Electric Company. Transformer. No. 919,338; Apr. 27; Sp. p. 5109; Gaz. vol. 141; p. 886.
- Frank, J. J., Pittsfield, Mass., assignor to General Electric Company. Aluminum cell reactance. No. 941,445; Nov. 30; Sp. p. 6628; Gaz. vol. 148; p. 1123.
- Frank J. Mann Tool and Appliance Company. (See Mann, F. J., assignor.)
- Frank, M., Cheyenne, Wyo. Combined label-holder and pattern or parcel remover. No. 910,278; Jan. 19; Sp. p. 3781; Gaz. vol. 138; p. 681.
- Frank, M. G. (See Schirra, J., assignor.)
- Frank Mossberg Company. (See Mossberg, F., assignor.)
- Frank, O., Stralsund, Germany. Shutter-bower. No. 936,992; Oct. 12; Sp. p. 2875; Gaz. vol. 147; p. 480.
- Frank P. Heid and Company. (See Weiner, L., assignor.)
- Frank, R., Lynn, Mass. Sewing-machine guide attachment. No. 924,157; June 8; Sp. p. 2317; Gaz. vol. 143; p. 380.
- Frank, S., *et al.* (See Howard, J. I., assignor.)
- Frank, S., Frankfort-on-the-Main, Germany. Treating zinc. No. 935,900; Oct. 5; Sp. p. 643; Gaz. vol. 147; p. 93.
- Frank Tea & Spice Company. (See Frank, E., assignor.)
- Frank, W., Sparland, Ill. Device for stretching roofing. No. 932,382; Aug. 24; Sp. p. 5903; Gaz. vol. 145; p. 992.
- Frank, W. E., assignor to Foster Brothers Manufacturing Company, St. Louis, Mo. Spring-bed. No. 909,390; Jan. 12; Sp. p. 1938; Gaz. vol. 138; p. 346.
- Frank, W. J. (See Baughman, C. O., assignor.)
- Frank, W. V., assignor of one-third to C. Osterle and one-third to G. W. Frank, Springfield, Ohio. Oscillating motor. No. 930,657; Aug. 10; Sp. p. 2128; Gaz. vol. 145; p. 371.
- Frank, W. V., assignor of one-third to C. Osterle and one-third to G. W. Frank, Springfield, Ohio. Operating mechanism for washing-machines. No. 935,901; Oct. 5; Sp. p. 644; Gaz. vol. 147; p. 901.
- Frank, A. H., St. Louis, Mo. Oil filter and purifier. No. 911,388; Feb. 2; Sp. p. 713; Gaz. vol. 139; p. 122.
- Frank, A. H., St. Louis, Mo. Smoothing and truing ring for stuffing-boxes. No. 924,755; June 15; Sp. p. 3570; Gaz. vol. 143; p. 613.
- Frank, F., Louisville, Ky. Mattress-stuffer. No. 932,693; Aug. 31; Sp. p. 6498; Gaz. vol. 145; p. 1119.
- Frank, F. C. (See Linde and Franke.)
- Frank, M., Breslau, Germany. Pin-holder. No. 926,478; June 29; Sp. p. 7061; Gaz. vol. 143; p. 1245.
- Frankberger, H. P. (See Newman, E. L., assignor.)
- Frankel, H., New York, N. Y. Splicing-sleeve. No. 922,690; May 25; Sp. p. 5342; Gaz. vol. 142; p. 943.
- Frankenburg, H. T. von, New York, N. Y. Lap-robe. No. 919,339; Apr. 27; Sp. p. 5111; Gaz. vol. 141; p. 886.
- Frankenburg, H., Birmingham, England. Toe-clip for the pedals of cycles and like vehicles. No. 934,064; Sept. 14; Sp. p. 2220; Gaz. vol. 146; p. 367.
- Frankenfeld, B., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Method of and means for securing in position conductors of electromagnetic structures. No. 911,713; Feb. 9; Sp. p. 1376; Gaz. vol. 139; p. 256.
- Frankenfeld, B., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. System of electrical distribution. No. 931,404; Aug. 17; Sp. p. 3772; Gaz. vol. 145; p. 651.
- Frankenfeld, B., Milwaukee, Wis., assignor to Allis-Chalmers Company. System of distribution. No. 921,392; May 11; Sp. p. 2682; Gaz. vol. 142; p. 460.
- Frankforter, G. B., Minneapolis, Minn. Apparatus for use in extracting turpentine and resinous matter from resinous wood. No. 918,989; Apr. 20; Sp. p. 4233; Gaz. vol. 141; p. 739.
- Frankforter, G. B., Minneapolis, Minn. Extracting turpentine and resinous matter from wood. No. 918,990; Apr. 20; Sp. p. 4235; Gaz. vol. 141; p. 740.
- Frankle, M. (See Speer, N. T., assignor.)
- Franklin, A. H., Traverse City, Mich. Knob attachment. No. 936,441; Oct. 12; Sp. p. 1787; Gaz. vol. 147; p. 287.
- Franklin, C., and I. F. Randolph, Iola, Kans. Oil-burner. No. 915,844; Mar. 23; Sp. p. 4514; Gaz. vol. 140; p. 801.
- Franklin, E., Portland, Oreg. Engine. No. 923,505; June 1; Sp. p. 877; Gaz. vol. 143; p. 133.
- Franklin, E. A., Austin, Tex. Churn. No. 935,902; Oct. 5; Sp. p. 648; Gaz. vol. 147; p. 902.
- Franklin, E. R., Binghamton, N. Y. Wire basket. No. 920,313; May 4; Sp. p. 466; Gaz. vol. 142; p. 72.
- Franklin, E. W., Sheridan, N. Y. Poultry feeder and exerciser. No. 943,522; Dec. 21; Sp. p. 3848; Gaz. vol. 149; p. 669.
- Franklin, J., *et al.* (See Brenizer, O. W., assignor.)
- Franklin, J. (See King, J. C., assignor.)
- Franklin, M., Grand Junction, Colo. Ship-propelling device. No. 938,750; Nov. 2; Sp. p. 644; Gaz. vol. 148; p. 103.
- Franklin Manufacturing Company. (See Evans, R. J., assignor.)
- Franklin Moore Co. (See Cross, R. E., assignor.)
- Franklin Rubber Company. (See Small and Shelton, assignors.)
- Frankman, O. N., Mariebergsgård, Marieberg, Sweden. Machine for unearthing beets. No. 928,594; July 20; Sp. p. 3943; Gaz. vol. 144; p. 688.
- Frank, G. (See Schlichter and Frankó.)
- Franks, C. (See Franks, S., Jr., D., and C.)
- Franks, D. (See Franks, S., Jr., D., and C.)
- Franks, M. M., Corsicana, Tex. Animal-trap. No. 928,649; July 20; Sp. p. 4058; Gaz. vol. 144; p. 706.
- Franks, O. G., Chicago, Ill., assignor, by mesne assignments, to E. Tyden, Hastings, Mich. Pedestal-table. No. 915,170; Mar. 16; Sp. p. 3139; Gaz. vol. 140; p. 551.
- Franks, O. G., assignor to Seng Company, Chicago, Ill. Pedestal extension-table. No. 924,446; June 8; Sp. p. 2909; Gaz. vol. 143; p. 476.
- Franks, O. G., assignor to Seng Company, Chicago, Ill. Making steel table-slides. No. 927,456; July 6; Sp. p. 1536; Gaz. vol. 144; p. 252.
- Franks, S., Jr., D., and C., Millersburg, Ohio. Separator. No. 930,853; Aug. 10; Sp. p. 2528; Gaz. vol. 145; p. 436.
- Frantz, A. E. (See Frantz, C. R., assignor.)
- Frantz, C. R., assignor to A. E. Frantz, Wilmington, Del. Flexible wall, ceiling, and surface covering. No. 935,903; Oct. 5; Sp. p. 650; Gaz. vol. 147; p. 902.
- Frantz, E. J. (See Frantz, S. O., assignor.)
- Frantz, P., Dixon, Ill., assignor of one-half to O. H. Hyde, Springfield, Ohio. Adjustable support for drop-lights. No. 921,970; May 18; Sp. p. 3876; Gaz. vol. 142; p. 678.
- Frantz, S. O., assignor of one-half to E. J. Frantz, Conway Springs, Kans. Wagon-reach. No. 913,882; Mar. 2; Sp. p. 453; Gaz. vol. 140; p. 74.
- Franz, B., Leipzig-Plagwitz, assignor to Franz & Massman, Leipzig-Lindenau, Germany. Machine-tool. No. 917,577; Apr. 6; Sp. p. 1198; Gaz. vol. 141; p. 210.
- Franz, C. (See Hewitt, J. E., assignor.)
- Franz, F. (See Dumbolton and Franz.)
- Franz, G. A. (See Hampton, Franz, and Smith.)
- Franz, K., assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Manufacture on the paper-machine of paper having relief-like effect. No. 918,525; Apr. 20; Sp. p. 3183; Gaz. vol. 141; p. 584.
- Franz & Massman. (See Franz, B., assignor.)
- Franzen, M. H., Golden, Ill. Strainer for coffee and tea pots. No. 917,281; Apr. 6; Sp. p. 664; Gaz. vol. 141; p. 113.
- Franzen, N., Saginaw, Mich., assignor to Mississippi Glass Company. Wire-glass machine. No. 936,880; Oct. 12; Sp. p. 2664; Gaz. vol. 147; p. 444.
- Franzheim, C. M., assignor to C. W. Franzheim, Wheeling, W. Va. Flushing-tank. No. 933,468; Nov. 2; Sp. p. 29; Gaz. vol. 148; p. 7.

*Alphabetical list of patentees—Continued.*

- Franzheim, C. W. (See Franzheim, C. M., assignor.)  
 Franzheim, G. W., Wheeling, W. Va. Leg-fastening. No. 942,380; Dec. 7; Sp. p. 734; Gaz. vol. 149; p. 118.  
 Frappier, H. G. and J. H., Worcester, Mass. Finger-head. No. 936,243; Oct. 5; Sp. p. 1321; Gaz. vol. 147; p. 203.  
 Frappier, J. H. (See Frappier, H. G. and J. H.)  
 Frasch, H., New York, N. Y., assignor to Frasch Sulphur Process Company. Installing wells. No. 928,036; July 13; Sp. p. 2769; Gaz. vol. 144; p. 472.  
 Frasch Sulphur Process Company. (See Frasch, H., assignor.)  
 Fraser, C. C., and G. W. Lilley, Saginaw, Mich. Type-writing attachment for use on platen printing-presses. No. 937,431; Oct. 19; Sp. p. 3837; Gaz. vol. 147; p. 653.  
 Fraser, C. W., Hartford, Conn. Body-protector. No. 936,442; Oct. 12; Sp. p. 1789; Gaz. vol. 147; p. 297.  
 Fraser, E., North Crandon, Wis. Rail-joint. No. 914,260; Mar. 2; Sp. p. 1292; Gaz. vol. 140; p. 200.  
 Fraser, E. M., Yonkers, N. Y., assignor of sixty-one one-hundredths to J. D. Grant, San Francisco, Cal. Hot-air engine. No. 922,875; May 25; Sp. p. 5752; Gaz. vol. 142; p. 1003.  
 Fraser, J., Hackensack, and T. Gray, Paterson, N. J. Machine for edging metal plates. No. 910,471; Jan. 19; Sp. p. 4172; Gaz. vol. 138; p. 746.  
 Fraser, J., Hackensack, and T. Gray, Paterson, N. J. Press for making pipes. No. 914,369; Mar. 2; Sp. p. 1530; Gaz. vol. 140; p. 236.  
 Fraser, J., Hackensack, and T. Gray, Paterson, N. J. Machine for edging metallic plates. No. 936,109; Oct. 5; Sp. p. 1072; Gaz. vol. 147; p. 163.  
 Fraser, J., and C. Jumeaux, Auckland, assignors of one-third to S. E. Fraser, Waihi, New Zealand. Apparatus for recording deviations in the course of a vessel. No. 939,999; Nov. 16; Sp. p. 3417; Gaz. vol. 148; p. 589.  
 Fraser Machine & Manufacturing Co. (See Fraser, W. F., assignor.)  
 Fraser, N. P. (See Boddy, M. E., assignor.)  
 Fraser, N. P., assignor of one-half to W. Gribben, Carsonville, Mich. Block-signaling system. No. 912,301; Feb. 16; Sp. p. 2633; Gaz. vol. 139; p. 484.  
 Fraser, R. J., Sydney, Nova Scotia, Canada. Attachment for harmonicas. No. 922,121; May 18; Sp. p. 4165; Gaz. vol. 142; p. 728.  
 Fraser, S. E. (See Fraser and Jumeaux, assignors.)  
 Fraser, W. (See McCracken, W. J., assignor.)  
 Fraser, W. A., assignor of one-half to A. Kleinman, New York, N. Y. Pencil. No. 940,797; Nov. 23; Sp. p. 5233; Gaz. vol. 148; p. 888.  
 Fraser, W. F., Boston, Mass., assignor to Fraser Machine & Manufacturing Co. Spacing mechanism for lacing-hook-setting machines. No. 927,647; July 13; Sp. p. 1963; Gaz. vol. 144; p. 343.  
 Fraser, W. F., Boston, Mass., assignor to Fraser Machine & Manufacturing Co. Spacing mechanism for lacing-hook-setting machines. No. 933,298; Sept. 7; Sp. p. 603; Gaz. vol. 146; p. 93.  
 Frawley, R. W. (See Berry, W. A., assignor.)  
 Fray, J. A. (See Daniels, Cogill, and Fray.)  
 Frayer, L. A., assignor to Columbus Machine Company, Columbus, Ohio. Valve control. No. 913,121; Feb. 23; Sp. p. 4326; Gaz. vol. 139; p. 783.  
 Frayer, L. A., and C. O. Howard, assignors to M. W. Kouns, Columbus, Ohio. Rotary valve. No. 908,656; Jan. 5; Sp. p. 493; Gaz. vol. 138; p. 76.  
 Frayer, L. A., and C. O. Howard, assignors to M. W. Kouns, Columbus, Ohio. Explosive-engine. No. 908,657; Jan. 5; Sp. p. 495; Gaz. vol. 138; p. 77.  
 Frayer, L. A., and C. O. Howard, Columbus, assignors to M. W. Kouns, Cleveland, Ohio. Transmission-gearing for vehicles. No. 909,994; Jan. 19; Sp. p. 3153; Gaz. vol. 138; p. 582.  
 Frazee, L. A., Bowling Green, Ky. Sanitary drinking-fountain. No. 937,588; Oct. 19; Sp. p. 4160; Gaz. vol. 147; p. 708.  
 Frazee, R. O., Gilman, Ill. Wire-fence-stretching machine. No. 930,541; Aug. 10; Sp. p. 1890; Gaz. vol. 145; p. 334.  
 Frazee, W. E., Perham, Minn. Attachment for tobacco-pipes. No. 912,105; Feb. 9; Sp. p. 2217; Gaz. vol. 139; p. 383.  
 Frazee, W. E., Perham, Minn. Boiler-tube cleaner. No. 915,584; Mar. 16; Sp. p. 3978; Gaz. vol. 140; p. 687.  
 Frazee, W. E., Perham, Minn. Nut-lock. No. 934,805; Sept. 21; Sp. p. 3682; Gaz. vol. 146; p. 639.  
 Frazee, Y. T. (See Parker, H. F., assignor.)  
 Frazier, L. H., Quincy, Ill. Hay-loader. No. 935,649; Oct. 5; Sp. p. 45; Gaz. vol. 147; p. 9.  
 Frazier, W. G., Topeka, Kans. Gas-burner. No. 931,051; Aug. 17; Sp. p. 2997; Gaz. vol. 145; p. 528.  
 Frazier, E. J., Buffalo, N. Y. Multiple-fluid sprayer. No. 912,106; Feb. 9; Sp. p. 2219; Gaz. vol. 139; p. 384.  
 Frazier, G. C., assignor to National Casket Company, Pittsburg, Pa. Box-lid fastener. No. 922,122; May 18; Sp. p. 4167; Gaz. vol. 142; p. 728.  
 Frazier, H. G., Basic City, Va. Window-pane fastener. No. 912,302; Feb. 16; Sp. p. 2637; Gaz. vol. 139; p. 484.  
 Frazier, H. G. (See Elliott, A. D., assignor.)  
 Frazier, J. W., and J. H. Fox, Cleveland, Ohio. Clam-shell bucket. No. 921,821; May 18; Sp. p. 3561; Gaz. vol. 142; p. 631.  
 Frazier, O., assignor of one-half to W. Frazier, Brazil, Ind. Telephone. No. 911,714; Feb. 9; Sp. p. 1379; Gaz. vol. 139; p. 256.  
 Frazier, S. F., Quenemo, Kans. Broom. No. 931,290; Aug. 17; Sp. p. 3545; Gaz. vol. 145; p. 611.  
 Frazier, W. (See Frazier, O., assignor.)  
 Frea, F. J., *et al.* (See Williams, R., assignor.)  
 Freaney, P. J., Indianapolis, Ind. Valve. No. 926,400; June 29; Sp. p. 6922; Gaz. vol. 143; p. 1219.  
 Frear, O. E., Albany, assignor of one-third to P. J. Marsh, Troy, and one-third to F. C. Few, Albany, N. Y. Self-spinning top. No. 933,544; Sept. 7; Sp. p. 1200; Gaz. vol. 146; p. 175.  
 Freas, L. I., Chalfont, Pa. Multiple-call-bell switch. No. 911,968; Feb. 9; Sp. p. 1931; Gaz. vol. 139; p. 339.  
 Frease, H., trustee. (See Jacobs, G., assignor.)  
 Frebe, C., Providence, R. I. Umbrella attachment. No. 920,314; May 4; Sp. p. 467; Gaz. vol. 142; p. 72.  
 Frech, T. W., Jr., assignor to National Electric Lamp Company, Cleveland, Ohio. Machine for testing incandescent lamps. No. 922,123; May 18; Sp. p. 4168; Gaz. vol. 142; p. 728.  
 Fred Medart Manufacturing Company. (See Medart, F., assignor.)  
 Fred Medart Manufacturing Company. (See Medart, P. S., assignor.)  
 Frede, W., St. Louis, Mo. Planter. No. 921,222; May 11; Sp. p. 2306; Gaz. vol. 142; p. 405.  
 Fredeen, F., Taylors Falls, Minn. Dam for producing power and regulating the depth of water in streams. No. 935,749; Oct. 5; Sp. p. 267; Gaz. vol. 147; p. 43.  
 Fredell, J. C., South Bend, Ind. Coin-controlled mechanism. No. 913,278; Feb. 23; Sp. p. 4649; Gaz. vol. 139; p. 834.  
 Frederick, C., Columbiana, Ohio. Eraser-holder. No. 931,405; Aug. 17; Sp. p. 3776; Gaz. vol. 145; p. 652.  
 Frederick, C. H., Sandusky, Ohio. Locking whip-socket. No. 929,931; Aug. 3; Sp. p. 656; Gaz. vol. 145; p. 104.  
 Frederick, C. W. (See French and Frederick.)  
 Frederick, J. C. (See Kennedy, C. E., assignor.)  
 Frederick, J. H. (See Cockingham, P. P., assignor.)  
 Frederick, L., assignor of one-half to G. Conrath, B. W. Stewart, H. Bell, R. V. Kerr, G. M. and J. R. Appleby, F. Kring, M. Ray, W. Getty, R. J. Marshall, H. T. Anderson, and F. W. Kerr, Indiana, Pa. Road-crossing. No. 921,223; May 11; Sp. p. 2308; Gaz. vol. 142; p. 405.  
 Frederick, R. M., Bear Creek, Ala. Plow-foot. No. 943,925; Dec. 21; Sp. p. 4077; Gaz. vol. 149; p. 706.  
 Frederick, R. T., and J. L. Chapman, Randolph, Nebr. Rail-joint. No. 931,589; Aug. 17; Sp. p. 4112; Gaz. vol. 145; p. 708.  
 Fredericks, E. M., Chicago, Ill. Dental-inlay-casting machine. No. 920,561; May 4; Sp. p. 949; Gaz. vol. 142; p. 154.  
 Fredonia Portland Cement Company. (See Smith, M. M., assignor.)  
 Fredrickson, A., Columbus, Miss. Cake-former. No. 916,855; Mar. 30; Sp. p. 6451; Gaz. vol. 140; p. 1152.  
 Fredrickson, A. W., Hardy, Cal. Water heater and purifier. No. 929,574; July 27; Sp. p. 5916; Gaz. vol. 144; p. 1040.  
 Fredrickson, C. O., Osceola, Nebr. Attachment for threshing-machines. No. 918,139; Apr. 13; Sp. p. 2397; Gaz. vol. 141; p. 429.  
 Fredrickson, O., Buchanan, Mich., assignor to Celfor Tool Company, Chicago, Ill. Twist-drill. No. 923,257; June 1; Sp. p. 296; Gaz. vol. 143; p. 47.  
 Fredrickson, O. H. (See Malmquist and Fredrickson.)  
 Free, W. C., Chicago, Ill. Sewing-machine cabinet. No. 943,867; Dec. 21; Sp. p. 3940; Gaz. vol. 149; p. 685.  
 Free, W. C., assignor to Illinois Sewing Machine Company, Chicago, Ill. Sewing-machine cabinet. No. 943,866; Dec. 21; Sp. p. 3938; Gaz. vol. 149; p. 685.  
 Freeborn, G. E., Belfast, N. Y. Anvil. No. 940,798; Nov. 23; Sp. p. 5234; Gaz. vol. 148; p. 888.  
 Freeborn, H. L., New York, N. Y. Top for cans. No. 915,845; Mar. 23; Sp. p. 4515; Gaz. vol. 140; p. 802.  
 Freeburg, F. M., assignor to King Fifth Wheel Company, Philadelphia, Pa. Roller-bearing. No. 922,124; May 18; Sp. p. 4170; Gaz. vol. 142; p. 729.  
 Freed, G. F., assignor to Duff Manufacturing Company, Allegheny, Pa. Lifting-jack. No. 922,412; May 18; Sp. p. 4751; Gaz. vol. 142; p. 824.  
 Freedman, L., New York, N. Y. Safety watch-guard. No. 926,401; June 29; Sp. p. 6923; Gaz. vol. 143; p. 1219.  
 Freel, J. H., Las Cascadas, Panama. Tripping mechanism for power-shovels. No. 931,747; Aug. 24; Sp. p. 4494; Gaz. vol. 145; p. 783.



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- Freel, J. S. E., Newark, N. J. Cushioning device for truss-frames and the like. No. 943,244; Dec. 14; Sp. p. 2607; Gaz. vol. 149; p. 442.
- Freel, J. S. E., Newark, N. J., assignor of one-half to J. McSweeney, New York, N. Y. Truss. No. 909,077; Jan. 5; Sp. p. 1315; Gaz. vol. 138; p. 212.
- Freeland, G. W., Moline, Ill., assignor to Williams, White & Company. Coal-handing apparatus. No. 928,595; July 20; Sp. p. 3947; Gaz. vol. 144; p. 688.
- Freeman, A. A., Atlantic City, N. J. Preservation of bivalves. No. 944,027; Dec. 21; Sp. p. 4297; Gaz. vol. 149; p. 740.
- Freeman, A. C., Jr., Norfolk, Va. Area-finding apparatus. No. 937,589; Oct. 19; Sp. p. 4161; Gaz. vol. 147; p. 708.
- Freeman, C. C., Dixfield, Me. Machine for boxing toothpicks. No. 911,227; Feb. 2; Sp. p. 405; Gaz. vol. 139; p. 70.
- Freeman, E. H., Trenton, N. J. Fastening for electrical sign-receptacles. No. 925,168; June 15; Sp. p. 4411; Gaz. vol. 143; p. 753.
- Freeman, E. H., Trenton, N. J. Adjustable casing for lamp-sockets. No. 927,344; July 6; Sp. p. 1295; Gaz. vol. 144; p. 213.
- Freeman, F. A., Malden, Mass. Hand-grip for guns. No. 936,528; Oct. 12; Sp. p. 1968; Gaz. vol. 147; p. 324.
- Freeman, G. (See Curry, C. A., assignor.)
- Freeman, H. H., St. Paul, Minn. Electromagnetic means for operating air and other whistles. No. 937,590; Oct. 19; Sp. p. 4162; Gaz. vol. 147; p. 708.
- Freeman, H. L., West Durham, N. C., assignor to Draper Company, Hopedale, Mass. Thin-plate-detecting means for looms. No. 935,099; Sept. 28; Sp. p. 4283; Gaz. vol. 146; p. 765.
- Freeman, H. L., and S. D. Eubanks, West Durham, N. C. Cloth thin-plate detector. No. 908,459; Jan. 5; Sp. p. 51; Gaz. vol. 138; p. 11.
- Freeman, H. S. (See Kimball and Freeman.)
- Freeman, J. T., *et al.* (See Esco, J. A., assignor.)
- Freeman, J. W., Joplin, Mo. Automobile-propelled vessel. No. 928,955; July 27; Sp. p. 4656; Gaz. vol. 144; p. 836.
- Freeman, L. C., Elgin, Ill. Breaching-strap fastener. No. 920,315; May 4; Sp. p. 468; Gaz. vol. 142; p. 73.
- Freeman, L. C., and B. B. Neuteboom, Detroit, Mich. Clutch. No. 913,370; Feb. 23; Sp. p. 4837; Gaz. vol. 139; p. 866.
- Freeman, L. G. (See Krewson, S. A., assignor.)
- Freeman, L. G., Cincinnati, Ohio. Insole tack-puller. No. 923,828; June 8; Sp. p. 1657; Gaz. vol. 143; p. 274.
- Freeman, M. T., Chattanooga, Tenn. Reversible disk plow. No. 918,841; Apr. 20; Sp. p. 3908; Gaz. vol. 141; p. 689.
- Freeman, M. T., Chattanooga, Tenn. Pea huller and separating machine. No. 924,447; June 8; Sp. p. 2911; Gaz. vol. 143; p. 476.
- Freeman, T. F., Dover, Me. Seam-ripper. No. 914,130; Mar. 2; Sp. p. 1022; Gaz. vol. 140; p. 161.
- Freeman, W. (See Dodge, Freeman, and Vanderveld.)
- Freeman, W., New York, N. Y. Suspenders. No. 914,404; Mar. 9; Sp. p. 1606; Gaz. vol. 140; p. 273.
- Freeman, W., New York, N. Y. Suspenders. No. 915,089; Mar. 16; Sp. p. 2948; Gaz. vol. 140; p. 524.
- Freeman, W., assignor to Grand Rapids Show Case Co., Grand Rapids, Mich. Garment-support for wardrobes. No. 915,340; Mar. 16; Sp. p. 3473; Gaz. vol. 140; p. 606.
- Freeman, W., assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Display or show case. No. 935,100; Sept. 28; Sp. p. 4284; Gaz. vol. 146; p. 766.
- Freeman, W. F., assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Garment-hanger. No. 941,510; Nov. 30; Sp. p. 6761; Gaz. vol. 148; p. 1145.
- Freer, G. A., Jackson, Mich. Potato digger and separator. No. 925,691; June 22; Sp. p. 5227; Gaz. vol. 143; p. 949.
- Freer, P. M., Barberton, assignor of one-fourth to W. W. Pope and one-fourth to C. W. Hawkins, Akron, Ohio. Shock-absorber. No. 930,467; Aug. 10; Sp. p. 1700; Gaz. vol. 145; p. 307.
- Freer, P. M., Lansing, Mich., assignor of one-fourth to W. W. Pope and one-fourth to C. W. Hawkins, Akron, Ohio. Shock-absorber. No. 930,468; Aug. 10; Sp. p. 1703; Gaz. vol. 145; p. 308.
- Freese, E. L., New York, N. Y. Apparatus for felling trees. (Reissue.) No. 13,040; Nov. 16; Sp. p. 4890; Gaz. vol. 148; p. 814.
- Freese, F. G., Philadelphia, Pa. Engine. No. 929,575; July 27; Sp. p. 5917; Gaz. vol. 144; p. 1040.
- Freese, F. J., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-sewing machine. No. 930,542; Aug. 10; Sp. p. 1891; Gaz. vol. 145; p. 334.
- Freese, H. W. (See Kotrba and Freese.)
- Freestate, C. P., Chicago, Ill. Stretcher-frame. No. 914,261; Mar. 2; Sp. p. 1293; Gaz. vol. 140; p. 201.
- Freeze, E. C. (See Way and Freeze.)
- Freeze, J. A., Lytton Springs, Tex. Clothes-pin. No. 927,849; July 13; Sp. p. 2396; Gaz. vol. 144; p. 410.
- Frei, M. R., Kansas City, Mo. Electric water-purifier. No. 936,993; Oct. 12; Sp. p. 2875; Gaz. vol. 147; p. 480.
- Freibahn Gesellschaft mit beschränkter Haftung. (See Jonas, R., assignor.)
- Freier, A. (See Balcome and Freier.)
- Friermuth, H. D. (See Woods, W. A., assignor.)
- French, A. C., Daingerfield, Tex. Flow and sweep holder. No. 911,586; Feb. 9; Sp. p. 1096; Gaz. vol. 139; p. 214.
- French, A. C., Daingerfield, Tex. Clothes-pin. No. 942,725; Dec. 7; Sp. p. 1438; Gaz. vol. 149; p. 235.
- French, A. J., Huron, S. D. Hasp-lock. No. 941,511; Nov. 30; Sp. p. 6762; Gaz. vol. 148; p. 1145.
- French, A. W. (See Farty M. W., assignor.)
- French, A. W., Piqua, Ohio. Steam-cooker for oil-bearing meal and the like. No. 909,778; Jan. 12; Sp. p. 2703; Gaz. vol. 138; p. 478.
- French, A. W., Piqua, Ohio. Machine for forming oil-cakes. No. 939,492; Nov. 9; Sp. p. 2319; Gaz. vol. 148; p. 384.
- French, A. W., Piqua, Ohio. Hydraulic accumulator. No. 941,867; Nov. 30; Sp. p. 7528; Gaz. vol. 148; p. 1266.
- French, A. W., Piqua, Ohio. Expressing-press. No. 942,442; Dec. 7; Sp. p. 853; Gaz. vol. 149; p. 139.
- French, C. O., Kansas City, Mo. Lock for grain-doors of box-cars. No. 938,469; Nov. 2; Sp. p. 31; Gaz. vol. 148; p. 7.
- French, C. S., Jared, W. Va. Sand-drier. No. 933,888; Sept. 14; Sp. p. 1908; Gaz. vol. 146; p. 315.
- French, C. W., Kingfield, Me. Vehicle-wheel. No. 915,585; Mar. 16; Sp. p. 3979; Gaz. vol. 140; p. 687.
- French, E. V., Lynn, and G. F. Hiller, Boston, assignors to C. H. Phinney, trustee, Chestnut Hill, Mass. Proportional meter. No. 923,258; June 1; Sp. p. 297; Gaz. vol. 143; p. 47.
- French, G. W., *et al.* (See Einfeldt, E., assignor.)
- French, H. R., Philadelphia, Pa. Culinary device for preparing omelet and other articles of food. No. 924,336; June 8; Sp. p. 2712; Gaz. vol. 143; p. 441.
- French, H. R., Philadelphia, Pa. Culinary device. No. 933,545; Sept. 7; Sp. p. 1201; Gaz. vol. 146; p. 175.
- French, J. C. (See Novotny, F. S., assignor.)
- French, J. R., Los Angeles, Cal. Punching and riveting machine. No. 918,842; Apr. 20; Sp. p. 3913; Gaz. vol. 141; p. 689.
- French, J. R., Los Angeles, Cal. Punching and riveting machine. No. 923,350; June 1; Sp. p. 560; Gaz. vol. 143; p. 80.
- French, J. R., Los Angeles, Cal. Riveting-machine. No. 930,932; Aug. 10; Sp. p. 2751; Gaz. vol. 145; p. 468.
- French, J. R., assignor to Lacy Manufacturing Company, Los Angeles, Cal. Hydraulic machine for making casing. No. 937,990; Oct. 26; Sp. p. 4985; Gaz. vol. 147; p. 859.
- French, L. M., and W. M. O'Brien, Chicago, Ill. Automatic-playing piano. No. 931,192; Aug. 17; Sp. p. 3308; Gaz. vol. 145; p. 576.
- French, M. E., Clyde, Ohio. Meat-tenderer. No. 931,590; Aug. 17; Sp. p. 4113; Gaz. vol. 145; p. 708.
- French, N., *et al.* (See Einfeldt, E., assignor.)
- French, R. A., Oakmont, assignor to Fort Pitt Spring & Manufacturing Co., Pittsburg, Pa. Railway draft-gear. No. 944,326; Dec. 28; Sp. p. 4917; Gaz. vol. 149; p. 866.
- French, R. A., Oakmont, and L. T. Girdler, Sewickley, assignors to Fort Pitt Spring & Manufacturing Co., Pittsburg, Pa. Railway draft-gear. No. 944,327; Dec. 28; Sp. p. 4918; Gaz. vol. 149; p. 867.
- French, S. P., Edison, Ohio. Material-holder for drilling-machines. No. 935,010; Sept. 28; Sp. p. 4098; Gaz. vol. 146; p. 734.
- French, W., and C. W. Frederick, Washington, D. C., assignors to J. D. Spreckels, San Francisco, Cal. Apparatus for solving spherical triangles. No. 943,532; Dec. 14; Sp. p. 3213; Gaz. vol. 149; p. 541.
- Frenkel, G., Cologne, Germany. Manufacturing blocks of linoleum material. No. 919,341; Apr. 27; Sp. p. 5114; Gaz. vol. 141; p. 887.
- Frentzel, H. E. (See Weickel and Frentzel.)
- Frerichs, J. G., assignor to Actien-Gesellschaft Hannoversche, Eisengiesserei, Anderten, near Hanover, Germany. Tube-cleaning apparatus. No. 936,620; Oct. 12; Sp. p. 2161; Gaz. vol. 147; p. 357.
- Fresko, A. and B. W., Amsterdam, Ohio. Wrench. No. 935,482; Sept. 28; Sp. p. 5022; Gaz. vol. 146; p. 887.
- Fresko, B. W. (See Fresko, A. and B. W.)
- Fretwell, J. A., Little Rock, Ark. Lubricator. No. 929,576; July 27; Sp. p. 5919; Gaz. vol. 144; p. 1040.
- Fretz, S. S., Philadelphia, Pa. Umbrella-geat. No. 932,012; Aug. 24; Sp. p. 5083; Gaz. vol. 145; p. 869.
- Freud, I. C. (See Bradley, B. B., assignor.)
- Freud, I. C., Detroit, Mich. Key for locks. No. 939,679; Nov. 9; Sp. p. 2724; Gaz. vol. 148; p. 450.
- Freuler, D., Chattanooga, Tenn. Horseshoe-bending machine. No. 939,901; Nov. 9; Sp. p. 3186; Gaz. vol. 148; p. 526.
- Freund, S., assignor of one-half to A. A. Arnold, Chicago, Ill. Collapsible box. No. 930,953; Aug. 10; Sp. p. 2753; Gaz. vol. 145; p. 468.
- Freund, S. G., New York, N. Y. Brake apparatus. No. 912,459; Feb. 16; Sp. p. 2961; Gaz. vol. 139; p. 536.
- Freuvdt, C. L., Miner, Ill. Railway-tie. No. 943,926; Dec. 21; Sp. p. 4077; Gaz. vol. 149; p. 706.
- Frey, A., Schöftland, Switzerland. Feed mechanism for boring-machines. No. 936,110; Oct. 5; Sp. p. 1073; Gaz. vol. 147; p. 164.
- Frey, A., Crete, Ill. Metallic railway-tie. No. 937,063; Oct. 19; Sp. p. 3039; Gaz. vol. 147; p. 533.

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- Frey, H. (See Reutzel and Frey.)
- Frey, H. H., Boston, Mass., assignor to Iver-Johnson Sporting Goods Company. Antiskidding tire attachment for wheels. No. 915,713; Mar. 16; Sp. p. 4250; Gaz. vol. 140; p. 732.
- Frey, J. C. (See Wyssinger, L., assignor.)
- Frey, W. T. (See Dismuth, L. S., assignor.)
- Freye, H., West Orange, N. J. Support for rubber-tire vehicles. No. 926,479; June 29; Sp. p. 7062; Gaz. vol. 143; p. 1245.
- Freyer, E. R., Sacramento, Cal. Crown-cork-feeding attachment. No. 944,548; Dec. 28; Sp. p. 5432; Gaz. vol. 149; p. 944.
- Freygang, R., Hamburg, Germany. Apparatus for washing or extracting minerals. No. 910,279; Jan. 19; Sp. p. 3782; Gaz. vol. 138; p. 681.
- Freytmuth, L. H., Los Angeles, Cal. Heating apparatus. No. 915,281; Mar. 16; Sp. p. 3359; Gaz. vol. 140; p. 586.
- Friberg, C., El Paso, Tex. Door-brace. No. 943,673; Dec. 21; Sp. p. 3552; Gaz. vol. 144; p. 618.
- Friberg, W., Portland, Oreg. Brick-spreader pallet and truck therefor. No. 914,262; Mar. 2; Sp. p. 1295; Gaz. vol. 140; p. 201.
- Frick, A., Alliance, Ohio. Wrench. No. 928,375; July 20; Sp. p. 3498; Gaz. vol. 144; p. 618.
- Frick, C. O., Fostoria, Ohio. Station-indicator. No. 937,207; Oct. 19; Sp. p. 3338; Gaz. vol. 147; p. 581.
- Frick, H. H., Fricks, Pa. Napkin-holder. No. 921,690; May 18; Sp. p. 3302; Gaz. vol. 142; p. 587.
- Frick, J., assignor to Thomas Devlin Manufacturing Co., Philadelphia, Pa. Register. No. 922,876; May 25; Sp. p. 5755; Gaz. vol. 142; p. 1003.
- Frick, O., Saltsjöbaden, Sweden. Electric transformer-furnace. No. 917,040; Apr. 6; Sp. p. 160; Gaz. vol. 141; p. 31.
- Frick, O., Saltsjöbaden, Sweden. Working metals, ores, and the like. No. 938,752; Nov. 2; Sp. p. 648; Gaz. vol. 143; p. 103.
- Frick, O., Stockholm, Sweden. Electric transformer-furnace. No. 932,013; Aug. 24; Sp. p. 5084; Gaz. vol. 145; p. 869.
- Frick, O., Sheffield, England. Reducing and melting oxides and the like. No. 932,459; Aug. 31; Sp. p. 5971; Gaz. vol. 145; p. 1040.
- Frick, O., Saltsjöbaden, Sweden, assignor to Gröndal Kjellin Company, Limited, London, England. Electric transformer-furnace. No. 933,169; Sept. 7; Sp. p. 280; Gaz. vol. 146; p. 47.
- Fricke, W. A., assignor to Monarch Telephone Manufacturing Company, Chicago, Ill. Telephone-exchange system. No. 925,573; June 22; Sp. p. 5176; Gaz. vol. 143; p. 912.
- Fricke, W., South Woodford, England. Machinery for separating, feeding, and cementing sheets of paper together. No. 940,868; Nov. 30; Sp. p. 7531; Gaz. vol. 149; p. 1267.
- Fricke, W., South Woodford, England. Machine for making paper bags. No. 944,851; Dec. 28; Sp. p. 6091; Gaz. vol. 149; p. 1047.
- Frickey, E. H. (See Williams and Frickey.)
- Frickey, E. H., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Dust collector and separator. No. 938,656; Nov. 2; Sp. p. 471; Gaz. vol. 148; p. 72.
- Frickey, E. H., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Separator. No. 938,657; Nov. 2; Sp. p. 474; Gaz. vol. 148; p. 72.
- Frickey, E. H., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Grinding surface or cage. No. 944,780; Dec. 28; Sp. p. 5928; Gaz. vol. 149; p. 1022.
- Friday, C. L., Quincy, Ill. Hose-coupling. No. 921,691; May 18; Sp. p. 3303; Gaz. vol. 142; p. 587.
- Friday, M., Bluffs, Ill. Nippers. No. 938,376; Oct. 26; Sp. p. 5338; Gaz. vol. 147; p. 990.
- Friderichsen, N. S., Copenhagen, Denmark. Machine for casting lead seals and the like. No. 914,131; Mar. 2; Sp. p. 1022; Gaz. vol. 140; p. 161.
- Fridley, C. R., *et al.* (See Anderson, T. E., assignor.)
- Fridstrom, A. P., Everett, Mass. Saw. No. 941,705; Nov. 30; Sp. p. 7168; Gaz. vol. 148; p. 1209.
- Fried, G. C., Rockford, Ill. Glove. No. 935,011; Sept. 28; Sp. p. 4099; Gaz. vol. 146; p. 735.
- Fried. Krupp Aktiengesellschaft. (See Becker, J., assignor.)
- Fried. Krupp Aktiengesellschaft. (See Behnke, O., assignor.)
- Fried. Krupp Aktiengesellschaft. (See Behnke and Tiemann, assignors.)
- Fried. Krupp Aktiengesellschaft. (See Böminghaus, F., assignor.)
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- Fried. Krupp Aktiengesellschaft. (See Hendler, F., assignor.)
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- Fried. Krupp Aktiengesellschaft. (See Karrodi and Grauhering, assignors.)
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- Fried. Krupp Aktiengesellschaft. (See Lauber, O., assignor.)
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- Fried. Krupp Aktiengesellschaft. (See Lehmann, H., assignor.)
- Fried. Krupp Aktiengesellschaft. (See Mayer, W., assignor.)
- Fried. Krupp Aktiengesellschaft. (See Panse, F., assignor.)
- Fried. Krupp Aktiengesellschaft. (See Rausenberger, F., assignor.)
- Fried. Krupp Aktiengesellschaft. (See Schoeller and Sundhausen, assignors.)
- Fried. Krupp Aktiengesellschaft. (See Schwartz, W., assignor.)
- Fried. Krupp Aktiengesellschaft. (See Schwartz and Koener, assignors.)
- Fried. Krupp Aktiengesellschaft. (See Schwartz and Wilck, assignors.)
- Fried. Krupp Aktiengesellschaft. (See Thiele, K., assignor.)
- Fried. Krupp Aktiengesellschaft. (See Wieser, K., assignor.)
- Fried. Krupp Aktiengesellschaft. (See Wratzke, A., assignor.)
- Fried. Krupp Aktiengesellschaft. (See Ziegenfuss, F., assignor.)
- Fried. Krupp Aktiengesellschaft Germaniaewerft. (See Maier, W., assignor.)
- Fried. Krupp Aktiengesellschaft Germaniaewerft. (See Schluter, K., assignor.)
- Fried. Krupp Aktiengesellschaft Grusonwerk. (See Lehmann, H., assignor.)
- Fried, M., and R. Harvey, assignors, by mesne assignments, of one-half to H. B. Bornside, Providence, R. I. Leather-dressing machine. No. 924,756; June 15; Sp. p. 3572; Gaz. vol. 143; p. 613.
- Friedel, A. H., Baltimore, Md. Flying-machine. No. 940,866; Nov. 23; Sp. p. 5368; Gaz. vol. 148; p. 909.
- Friedemann, K. L. F. (See Heidenstam and Friedemann.)
- Friedenthal, H., Nicolasse, near Wannee, Germany. Heat-transmitter. No. 940,244; Nov. 16; Sp. p. 3975; Gaz. vol. 148; p. 676.
- Friedenwald, J. H., Baltimore, Md. Shock-absorber. No. 942,896; Dec. 14; Sp. p. 1837; Gaz. vol. 149; p. 324.
- Friedheim, E., Paris, France. Electrodeposition of metal on hollow articles. No. 915,846; Mar. 23; Sp. p. 4517; Gaz. vol. 140; p. 802.
- Friedlaender, A., Frankfort-on-the-Main, Germany. Umbrella and the like. No. 943,068; Dec. 14; Sp. p. 2261; Gaz. vol. 149; p. 383.
- Friedlaender, B., Sebewaing, assignor to American Marmorite Company, Saginaw, Mich. Composition. No. 932,460; Aug. 31; Sp. p. 5972; Gaz. vol. 145; p. 1040.
- Friedlander, J., New York, N. Y. Eyeglasses. No. 923,506; June 1; Sp. p. 880; Gaz. vol. 143; p. 133.
- Friedlander, T., assignor to L. Goldberg, Chicago, Ill. Ozone-generator. No. 927,519; July 13; Sp. p. 1684; Gaz. vol. 144; p. 300.
- Friedley, A., and H. F. Voshardt, Chicago, Ill. One-piece sheet-metal gutter-corner. No. 937,697; Oct. 19; Sp. p. 4363; Gaz. vol. 147; p. 742.
- Friedley-Voshardt Company. (See Voshardt, H. F., assignor.)
- Friedman, C. W. and L. A., Canton, Ohio. Curtain-fixture. No. 934,665; Sept. 21; Sp. p. 3405; Gaz. vol. 146; p. 594.
- Friedman, D. D. (See Friedman, J. and D. D.)
- Friedman, E. (See Evers, J. H., assignor.)
- Friedman, J. and D. D., Philadelphia, Pa. Drain-inlet. No. 928,596; July 20; Sp. p. 3952; Gaz. vol. 144; p. 689.
- Friedman, K., San Francisco, Cal. Stopper. No. 931,406; Aug. 17; Sp. p. 3777; Gaz. vol. 145; p. 652.
- Friedman, K., and J. B. Blumenfeld, New York, N. Y., and L. Strimban, Stepney, Conn. Plaster-board. No. 912,664; Feb. 16; Sp. p. 3385; Gaz. vol. 139; p. 607.
- Friedman, L. A. (See Friedman, C. W. and L. A.)
- Friedman, M., Chicago, Ill. Display-stand. No. 937,366; Oct. 19; Sp. p. 3670; Gaz. vol. 147; p. 632.
- Friedman, N., Chicago, Ill. Sewing-machine gage. No. 942,496; Dec. 7; Sp. p. 988; Gaz. vol. 149; p. 159.
- Friedman, O. J., *et al.* (See Flora, E. E., assignor.)



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 Friedrich, H. J., Racine, Wis. Shoe-polisher. No. 944,262; Dec. 28; Sp. p. 4771; Gaz. vol. 149; p. 844.  
 Friedrich, F. O. E., New York, N. Y., assignor to Caloris Manufacturing Company. Heat and cold non-conducting bottle or receptacle. No. 920,562; May 4; Sp. p. 952; Gaz. vol. 142; p. 154.  
 Friedrich, F. O. E., Philadelphia, Pa., assignor to Caloris Manufacturing Company. Casing for vacuum-bottles. No. 922,125; May 18; Sp. p. 4171; Gaz. vol. 142; p. 729.  
 Friedrich, F. O. E., Philadelphia, Pa., assignor to Caloris Manufacturing Co. Vacuum nursing-bottle. No. 922,413; May 18; Sp. p. 4753; Gaz. vol. 142; p. 824.  
 Friedrichs, J. A., Mankato, Minn. Music-leaf turner. No. 909,391; Jan. 12; Sp. p. 1939; Gaz. vol. 138; p. 346.  
 Friel, J. J., and G. Crusoe, Wilkesburg, Pa. Automatic flushing-tank. No. 936,709; Oct. 12; Sp. p. 2334; Gaz. vol. 147; p. 387.  
 Friend, J. E., Wellington, New Zealand. Rotary gas-engine. No. 913,635; Feb. 23; Sp. p. 5428; Gaz. vol. 139; p. 956.  
 Friend, J. E., Wellington, New Zealand. Rotary steam-engine. No. 935,101; Sept. 28; Sp. p. 4286; Gaz. vol. 146; p. 766.  
 Friend, M. E., Lake Crystal, Minn. Combined nursery-chair and satchel. No. 934,155; Sept. 14; Sp. p. 2427; Gaz. vol. 146; p. 399.  
 Friend, T. E., Saldora, Ill. Detachable point for cultivator-shovels. No. 944,484; Dec. 28; Sp. p. 5265; Gaz. vol. 149; p. 921.  
 Friend, T. S. (See Wilson and Friend.)  
 Friend, T. S., Chicago, Ill. Corrugated-metal jacket. No. 926,648; June 29; Sp. p. 7379; Gaz. vol. 143; p. 1301.  
 Fries, A. N. (See Hover and Fries.)  
 Fries, A. N., and A. H. Hover, Cincinnati, Ohio. Window-shade adjuster. No. 924,448; June 8; Sp. p. 2913; Gaz. vol. 143; p. 477.  
 Fries, J. E., Milwaukee, Wis. Power-transmission mechanism. No. 920,946; May 11; Sp. p. 1747; Gaz. vol. 142; p. 310.  
 Friese-Greene, W., Brighton, England. Kinematographic apparatus. No. 937,367; Oct. 19; Sp. p. 3672; Gaz. vol. 147; p. 632.  
 Friestedt, A. A., Chicago, Ill. Sheet-piling. No. 936,529; Oct. 12; Sp. p. 1969; Gaz. vol. 147; p. 325.  
 Friestedt, A. A., assignor to L. P. Friestedt, Chicago, Ill. Sheet-piling. No. 912,949; Feb. 16; Sp. p. 3972; Gaz. vol. 139; p. 699.  
 Friestedt, L. P. (See Friestedt, A. A., assignor.)  
 Friestedt, L. P., Chicago, Ill. Metallic railway-tie. No. 932,115; Aug. 24; Sp. p. 5302; Gaz. vol. 145; p. 903.  
 Frindell, W. C., Weyburn, Saskatchewan, Canada. Sleigh-bell fastener. No. 928,376; July 20; Sp. p. 3499; Gaz. vol. 144; p. 618.  
 Frink, C. R., Brattleboro, Vt. Bit-stock. No. 933,639; Sept. 7; Sp. p. 1377; Gaz. vol. 146; p. 206.  
 Frink, G. M., Arcadia, Cal. Doubletree. No. 939,002; Nov. 2; Sp. p. 1191; Gaz. vol. 148; p. 191.  
 Frink, R. L., Cleveland, Ohio. Glass-bait. No. 915,282; Mar. 16; Sp. p. 3361; Gaz. vol. 140; p. 587.  
 Frink, R. L., Cleveland, Ohio. Glass-conveying and stacking machine. No. 916,945; Mar. 30; Sp. p. 6645; Gaz. vol. 140; p. 1184.  
 Frink, R. L., Cleveland, Ohio. Glass-cutting device. No. 921,652; May 11; Sp. p. 3210; Gaz. vol. 142; p. 548.  
 Frink, R. L., Cleveland, Ohio. Glass-flattening tool. No. 930,658; Aug. 10; Sp. p. 2131; Gaz. vol. 145; p. 372.  
 Frink, R. L., Cleveland, Ohio. Method of and means for manufacture of window-glass. No. 941,512; Nov. 30; Sp. p. 6764; Gaz. vol. 148; p. 1146.  
 Frisbee, D. D., Detroit, Mich. Apparatus for oiling fellies. No. 943,674; Dec. 21; Sp. p. 3553; Gaz. vol. 149; p. 618.  
 Frisbee, R. B., Valencia, Pa. Nut-lock. No. 914,132; Mar. 2; Sp. p. 1024; Gaz. vol. 140; p. 161.  
 Frisbie, E. (See Calvert and Frisbie.)  
 Frisbmuth, C. S., Philadelphia, Pa. Compression-cock. No. 941,316; Nov. 23; Sp. p. 6328; Gaz. vol. 148; p. 1058.  
 Frisk, E. O., Painesdale, Mich. Piston for water-pumps. No. 912,460; Feb. 16; Sp. p. 2964; Gaz. vol. 139; p. 537.  
 Fristad, G., Garrison, Alberta, Canada. Flush-door hanger. No. 931,052; Aug. 17; Sp. p. 2999; Gaz. vol. 145; p. 529.  
 Fritch, E. D., Chicago, Ill., assignor of one-half to G. Drewry, Washington, D. C. Ticket-cutter. No. 924,655; June 15; Sp. p. 3359; Gaz. vol. 143; p. 579.  
 Fritchman, E. B., Humansville, Mo. Road grader and drag. No. 939,003; Nov. 2; Sp. p. 1193; Gaz. vol. 148; p. 191.  
 Fritsch, W., Marienbad, and A. Springer, Pilsen, Austria-Hungary. Combined firing and fuse-regulating mechanism. No. 922,877; May 25; Sp. p. 5757; Gaz. vol. 142; p. 1003.  
 Fritsche, F., assignor to Firm of Stolle and Kopke, Rumburg, Austria-Hungary. Production of soluble starch. No. 910,524; Jan. 26; Sp. p. 4288; Gaz. vol. 138; p. 737.  
 Fritsche, J., Philadelphia, Pa. Stamp-vending machine. No. 929,932; Aug. 3; Sp. p. 658; Gaz. vol. 145; p. 105.  
 Fritsche, J., Philadelphia, Pa., assignor to Book Match Sales Company, Camden, N. J. Container for vending-machines. No. 934,907; Sept. 21; Sp. p. 3376; Gaz. vol. 146; p. 673.  
 Fritsche, J., Philadelphia, Pa., assignor to Book Match Sales Company, Camden, N. J. Coin-controlled mechanism for vending-machines. No. 938,419; Oct. 26; Sp. p. 5931; Gaz. vol. 147; p. 1006.  
 Fritsche, J. T., Perry township, Marion county, Ind. Mower. No. 936,881; Oct. 12; Sp. p. 2668; Gaz. vol. 147; p. 444.  
 Fritts, B. F. (See Boswell, W. C., assignor.)  
 Fritz, E. C. (See Achgill, W. C., assignor.)  
 Fritz, E. W., Denton, Tex. Shocker attachment for harvesters. No. 917,282; Apr. 6; Sp. p. 665; Gaz. vol. 141; p. 113.  
 Fritz, F., et al. (See Kenney, F., assignor.)  
 Fritz, H. J., Bluffton, Ind. Post-brace. No. 921,534; May 11; Sp. p. 2951; Gaz. vol. 142; p. 507.  
 Fritz, H. J., Albert Lea, Minn. Washing apparatus for photographic prints or the like. No. 932,265; Aug. 24; Sp. p. 5591; Gaz. vol. 145; p. 953.  
 Fritz, J. H., Caldwell, Pa. Saw-filing implement. No. 913,318; Mar. 2; Sp. p. 290; Gaz. vol. 140; p. 50.  
 Fritz, R., West Hoboken, N. J. Carbon-feeding device for arc-lamps. No. 917,041; Apr. 6; Sp. p. 161; Gaz. vol. 141; p. 31.  
 Fritz, W., Berlin, Germany, assignor to General Electric Company. Turbine. No. 916,433; Mar. 30; Sp. p. 5624; Gaz. vol. 140; p. 1019.  
 Friz, A. A., St. Louis, Mo. Combined nut and wrench. No. 940,000; Nov. 16; Sp. p. 3419; Gaz. vol. 148; p. 589.  
 Frobose, H., Bielefeld, Germany. Antifriction-bearing. No. 928,956; July 27; Sp. p. 4658; Gaz. vol. 144; p. 836.  
 Froehlich, M. L., and M. F. Morison, New York, N. Y. Hanging hamper. No. 914,652; Mar. 9; Sp. p. 2081; Gaz. vol. 140; p. 354.  
 Froesé, M. (See Froesé, O. and M.)  
 Froesé, M., New York, N. Y. Ash-sifter. No. 917,042; Apr. 6; Sp. p. 162; Gaz. vol. 141; p. 31.  
 Froesé, M., New York, N. Y. Dish-washing device. No. 935,146; Sept. 28; Sp. p. 4375; Gaz. vol. 146; p. 781.  
 Froesé, O. and M., New York, N. Y. Washing-machine. No. 912,107; Feb. 9; Sp. p. 2220; Gaz. vol. 139; p. 384.  
 Frog, Switch & Manufacturing Company. (See Dotter and Hays, assignors.)  
 Froggatt, W. H., Jr., Brooklyn, N. Y. Counting and bottling machine. No. 911,556; Feb. 2; Sp. p. 1021; Gaz. vol. 139; p. 176.  
 Frohman, H. F., Cincinnati, Ohio. Sieve. No. 944,549; Dec. 28; Sp. p. 5435; Gaz. vol. 149; p. 943.  
 Frohne, H. W., New York, N. Y. Instrument for reproduction of pictures, &c. No. 920,450; May 4; Sp. p. 730; Gaz. vol. 142; p. 116.  
 From, J. W., Shelby, Nebr. Corn-harvester. No. 942,820; Dec. 7; Sp. p. 1618; Gaz. vol. 149; p. 266.  
 Fromhart, W. H., Golden, Colo. Hinge. No. 931,857; Aug. 24; Sp. p. 4723; Gaz. vol. 145; p. 818.  
 Frommann, F. A., Dallas, Tex. Catamenial sack. No. 924,337; June 8; Sp. p. 2714; Gaz. vol. 143; p. 442.  
 Frommer, R., Budapest, Austria-Hungary. Automatic safety device for firearms. No. 944,606; Dec. 28; Sp. p. 5565; Gaz. vol. 149; p. 965.  
 Fronz, F., Gorizia, assignor to F. Skerl, Trieste, Austria-Hungary. Paddle-wheel, particularly for use on air-ships. No. 929,298; July 27; Sp. p. 5400; Gaz. vol. 144; p. 950.  
 Fross, W. L., Seattle, Wash. Game apparatus. No. 909,779; Jan. 12; Sp. p. 2706; Gaz. vol. 138; p. 478.  
 Frost, C. S., Central Lake, Mich. Boat. No. 933,426; Sept. 7; Sp. p. 875; Gaz. vol. 146; p. 137.  
 Frost, E. C., assignor of one-half to M. A. Foote, Chicago, Ill. Drain for counters and the like. No. 925,574; June 22; Sp. p. 5186; Gaz. vol. 143; p. 913.  
 Frost, E. J., Nottingham, assignor of one-half to W. Joite, Cleveland, Ohio. Rail-joint. No. 939,240; Nov. 9; Sp. p. 1720; Gaz. vol. 148; p. 298.  
 Frost, F. E., Worcester, Mass. Cushion for stamps. No. 921,224; May 11; Sp. p. 2310; Gaz. vol. 142; p. 405.  
 Frost, G. B., and D. Morgan, Des Moines, Iowa. Valve. No. 935,597; Sept. 28; Sp. p. 5288; Gaz. vol. 146; p. 928.  
 Frost, H. P., Perth, Western Australia, Australia. Spectacle and pince-nez frame. No. 932,978; Aug. 31; Sp. p. 7044; Gaz. vol. 145; p. 1211.  
 Frost, H. W. (See Coughlin, D. E., assignor.)  
 Frost, J. N., Arlington, Mass. Manure pulverizer and loader. No. 909,576; Jan. 12; Sp. p. 2309; Gaz. vol. 138; p. 409.  
 Frost Manufacturing Co. (See Palmer, J. W. and F. N., assignors.)  
 Frost Manufacturing Company. (See Frost, W. J., assignor.)  
 Frost, N., Bloomington, Ill. Water-closet. No. 921,393; May 11; Sp. p. 2684; Gaz. vol. 142; p. 461.  
 Frost, N., assignor to American Foundry and Furnace Co., Bloomington, Ill. Trap. No. 922,126; May 18; Sp. p. 4174; Gaz. vol. 142; p. 730.  
 Frost, R. L., assignor of one-fourth to W. C. Lyman, Jackson, and one-eighth to G. T. Homeier, Flint, Mich. Internal-combustion engine. No. 941,138; Nov. 23; Sp. p. 5950; Gaz. vol. 148; p. 1001.  
 Frost, W. E., Highland Mills, N. Y. Mold. No. 915,283; Mar. 16; Sp. p. 3363; Gaz. vol. 140; p. 587.  
 Frost, W. H., Los Angeles, Cal. Internal-combustion engine. No. 917,283; Apr. 6; Sp. p. 667; Gaz. vol. 141; p. 114.  
 Frost, W. H., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 928,037; July 13; Sp. p. 2773; Gaz. vol. 144; p. 473.  
 Frost, W. J., Kenosha, Wis. Ball-cock. No. 938,470; Nov. 2; Sp. p. 33; Gaz. vol. 148; p. 8.

*Alphabetical list of patentees—Continued.*

- Frost, W. J., assignor to Frost Manufacturing Company, Kenosha, Wis. Push-button mechanism for flush-valves. No. 943,630; Dec. 14; Sp. p. 3451; Gaz. vol. 149; p. 575.
- Frost, W. R. S., London, England. Vulcanizing apparatus for tire tubes or covers. No. 926,695; June 29; Sp. p. 7474; Gaz. vol. 143; p. 1317.
- Frothingham, D. D., Salem, Mass. Cutter. No. 937,208; Oct. 19; Sp. p. 3342; Gaz. vol. 147; p. 581.
- Frown, G., Pleasant Unity, Pa. Brake attachment for cars. No. 913,719; Mar. 2; Sp. p. 88; Gaz. vol. 140; p. 16.
- Frown, G., Pleasant Unity, Pa. Journal-box. No. 938,841; Nov. 2; Sp. p. 838; Gaz. vol. 148; p. 135.
- Frueh, J., Chicago, Ill. Siphon. No. 910,054; Jan. 19; Sp. p. 3265; Gaz. vol. 138; p. 602.
- Frueh, F. (See Albers and Frueh.)
- Frueh, F. (See Frueh and Frueh.)
- Fruin, J. L., New York, N. Y. Flushing-tank. No. 920,126; May 4; Sp. p. 74; Gaz. vol. 142; p. 10.
- Fruin, J. L., New York, N. Y. Roof-plate and attic foul-air vent. No. 927,034; July 6; Sp. p. 698; Gaz. vol. 144; p. 112.
- Fruin, J. L., New York, N. Y. Combination waste. No. 927,035; July 6; Sp. p. 699; Gaz. vol. 144; p. 112.
- Fruin, J. L., New York, N. Y. Potato-planter. No. 914,564; Mar. 9; Sp. p. 1915; Gaz. vol. 140; p. 326.
- Fruit, J. R., Heyburn, Idaho. Cushion-tire for vehicle-wheels. No. 914,036; Mar. 2; Sp. p. 832; Gaz. vol. 140; p. 128.
- Fry, B. F., La Crosse, Wis. Assignor of one-third to J. C. Gross and one-third to O. W. Kahler, Baltimore, Md. Reversing-valve for steam-engines. No. 944,960; Dec. 28; Sp. p. 6295; Gaz. vol. 149; p. 1082.
- Fry, F. L., assignor of one-half to C. W. Hamerton, Oakland, Cal. Liquid-cooling device. No. 909,880; Jan. 19; Sp. p. 2918; Gaz. vol. 138; p. 543.
- Fry, H. O., Bridal Veil, Oreg. Bale-tie. No. 936,882; Oct. 12; Sp. p. 2671; Gaz. vol. 147; p. 445.
- Fry, J. A., *et al.* (See Hanger, G. M., assignor.)
- Fry, J. D., *et al.* (See Auberlin, C., assignor.)
- Fry, R. J., Brunswick, near Melbourne, Victoria, Australia. Apparatus for the transmission of power. No. 918,034; Apr. 13; Sp. p. 2191; Gaz. vol. 141; p. 393.
- Fry, S., Westerville, Ohio. Grave-vault. No. 941,986; Nov. 30; Sp. p. 7753; Gaz. vol. 148; p. 1306.
- Fry, T. E., assignor of one-half to C. W. Hamerton, Oakland, Cal. Liquid-cooling device. No. 909,880; Jan. 19; Sp. p. 2918; Gaz. vol. 138; p. 543.
- Fry, T. E., assignor of one-half to C. W. Hamerton, Oakland, Cal. Liquid-cooling device. No. 929,577; July 27; Sp. p. 5921; Gaz. vol. 144; p. 1041.
- Fry, W. J., Chicago, assignor, by mesne assignments, to Aurora Illuminating and Mantle Company, Aurora, Ill. Hydrocarbon-vapor burner. No. 909,881; Jan. 19; Sp. p. 2919; Gaz. vol. 138; p. 543.
- Fry, W. J., Chicago, assignor, by mesne assignments, to Aurora Illuminating and Mantle Company, Aurora, Ill. Gas-lamp. No. 909,995; Jan. 19; Sp. p. 3155; Gaz. vol. 138; p. 583.
- Fryburg, C. E., Philadelphia, Pa. Switch-operating mechanism. No. 935,843; Oct. 5; Sp. p. 514; Gaz. vol. 147; p. 74.
- Frye, A. A., Lowell, Mass. Fly-paper holder. No. 918,309; Apr. 13; Sp. p. 2735; Gaz. vol. 141; p. 485.
- Frye, C. O., *et al.* (See Cooper, F. W., assignor.)
- Frye, J. D., assignor of one-third to L. A. Stuart, St. Johnsbury, Vt. Sleigh-propelling mechanism. No. 918,431; Apr. 13; Sp. p. 2975; Gaz. vol. 141; p. 524.
- Frye, N., Lincoln, Kans. Drive-gearing. No. 925,557; June 29; Sp. p. 7193; Gaz. vol. 143; p. 1272.
- Frye, P. A., Cleveland, Ohio. Bag-filling machine. No. 915,847; Mar. 23; Sp. p. 4518; Gaz. vol. 140; p. 802.
- Fryer, G. G., assignor to Semet Solvay Company, Syracuse, N. Y. Car. No. 934,398; Sept. 14; Sp. p. 2878; Gaz. vol. 146; p. 481.
- Fryklind, K. B., Stockholm, Sweden. Apparatus for reducing night-soil and recovering ammonia therefrom. No. 918,744; Apr. 20; Sp. p. 3710; Gaz. vol. 141; p. 658.
- Frykman, A., Louris, N. D. Flue-cutter. No. 920,451; May 4; Sp. p. 732; Gaz. vol. 142; p. 117.
- Fryman, N., Bowdon, N. D. Draft-equalizer. No. 912,461; Feb. 16; Sp. p. 2965; Gaz. vol. 139; p. 537.
- Fryman, N., Bowdon, N. D. Hay-gatherer. No. 936,621; Oct. 12; Sp. p. 2163; Gaz. vol. 147; p. 358.
- Fryman, N., Bowdon, N. D. Hay-gatherer. No. 943,533; Dec. 14; Sp. p. 3218; Gaz. vol. 149; p. 542.
- Frymire, H. D., Jr., Galesburg, Ill. Draft-regulator. No. 936,111; Oct. 5; Sp. p. 1076; Gaz. vol. 147; p. 164.
- Fryzek, W., Detroit, Mich. Refrigerator. No. 933,546; Sept. 7; Sp. p. 1204; Gaz. vol. 146; p. 175.
- Fuchs, F., Vienna, Austria-Hungary. Producing textile fibers from reeds and the like. No. 910,468; Jan. 19; Sp. p. 4169; Gaz. vol. 138; p. 746.
- Fuchs, F., Vienna, assignor to Jute and Hemp Manufacturing Comp., Ltd., Budapest, Austria-Hungary. Crushing-mill for stalks or the like. No. 929,124; July 27; Sp. p. 5014; Gaz. vol. 144; p. 892.
- Fuchs, J. J., Jr., Omaha, Nebr. Washing-machine. No. 936,770; Oct. 12; Sp. p. 2451; Gaz. vol. 147; p. 408.
- Fuchs and Lang Manufacturing Company. (See Ford, A. J., assignor.)
- Fudge, J. O., *et al.* (See Riggs, A. W., assignor.)
- Fugate, L. E., Ogden, Utah. Automatic railway-train controller. No. 933,042; Aug. 31; Sp. p. 7183; Gaz. vol. 145; p. 1233.
- Fuhr, E. W., Vineland N. C. Extension car-step. No. 909,577; Jan. 12; Sp. p. 2311; Gaz. vol. 138; p. 410.
- Fuhrer, D., Bluffton, Ind. Concrete-tile-molding machine. No. 935,904; Oct. 5; Sp. p. 651; Gaz. vol. 147; p. 95.
- Fuhrmann, F., assignor, by mesne assignments, to L. F. Neirath, Berlin, Germany. Bleaching. No. 927,457; July 6; Sp. p. 1538; Gaz. vol. 144; p. 253.
- Fuhrmann, J. T., St. Paul, Minn. Flue-cutter. No. 922,127; May 18; Sp. p. 4175; Gaz. vol. 142; p. 730.
- Fujita, K., Ann Arbor, Mich. Mute. No. 933,244; Sept. 7; Sp. p. 498; Gaz. vol. 146; p. 76.
- Fulbright, W. D. (See Callis and Fulbright.)
- Fulcher, V. M., San Diego, Cal. Rotary engine. No. 924,899; June 15; Sp. p. 3878; Gaz. vol. 143; p. 661.
- Fulcher, W. H., Oakland, Cal. Pavement. No. 916,693; Mar. 30; Sp. p. 6164; Gaz. vol. 140; p. 1104.
- Fuld, I., Baltimore, Md. Billiard-table. No. 924,978; June 15; Sp. p. 4044; Gaz. vol. 143; p. 689.
- Fulford, E. D., deceased, Utica, N. Y., M. Fulford, administratrix, assignor to H. C. Lord, Erie, Pa. Target-throwing trap. No. 918,432; Apr. 13; Sp. p. 2978; Gaz. vol. 141; p. 524.
- Fulford, M., administratrix. (See Fulford, E. D.)
- Fulford, M. F., Fort Worth, Tex. Metallic packing. No. 911,228; Feb. 2; Sp. p. 408; Gaz. vol. 139; p. 71.
- Fulghum, T. E. (See Plank and Fulghum.)
- Fullagar, H. F., Newcastle-upon-Tyne, England, assignor to Allis-Chalmers Company, Milwaukee, Wis. Apparatus for governing steam-turbines. No. 913,003; Feb. 23; Sp. p. 4094; Gaz. vol. 139; p. 743.
- Fullagar, H. F., Newcastle-upon-Tyne, England, assignor to Allis-Chalmers Company, Jersey City, N. J. Turbine. No. 920,127; May 4; Sp. p. 76; Gaz. vol. 142; p. 10.
- Fulbright, T., assignor of one-half to C. B. Bryant and one-half to M. L. Bryant, Muskogee, Okla. Loading and unloading device. No. 941,571; Nov. 30; Sp. p. 6880; Gaz. vol. 148; p. 1165.
- Fuller, A. (See Hering and Fuller.)
- Fuller, C. T., Olean, N. Y. Fastening means for gas-burners. No. 922,128; May 18; Sp. p. 4178; Gaz. vol. 142; p. 731.
- Fuller, C. T., Schenectady, N. Y., assignor to General Electric Company. Treating metal filaments. No. 929,578; July 27; Sp. p. 5922; Gaz. vol. 144; p. 1041.
- Fuller, E. (See Reeves and Fuller.)
- Fuller, E. (See Schlapbach, F. H., assignor.)
- Fuller, E., Elmer, assignor of one-half to A. A. Hougham, Altus, Okla. Axle-box for locomotive-drivers. No. 926,862; July 6; Sp. p. 333; Gaz. vol. 144; p. 53.
- Fuller Engineering Company. (See Matcham, C. A., assignor.)
- Fuller, F. L., Trenton, N. J., assignor, by mesne assignments, to National Cash Register Company. Cash-register. No. 915,090; Mar. 16; Sp. p. 2949; Gaz. vol. 140; p. 524.
- Fuller, G. L., Utica, N. Y. Stone-sawing machine. No. 925,767; June 22; Sp. p. 5621; Gaz. vol. 143; p. 975.
- Fuller, H. B., St. Paul, Minn. Ladder. No. 922,878; May 25; Sp. p. 5759; Gaz. vol. 142; p. 1004.
- Fuller, J. A., assignor of one-half to W. A. Teat, Atlanta, Ga. Cotton-chopper. No. 911,487; Feb. 2; Sp. p. 870; Gaz. vol. 139; p. 154.
- Fuller, J. B., Naugatuck, Conn. Emergency-coupling for fire-hydrants. No. 911,123; Feb. 2; Sp. p. 191; Gaz. vol. 139; p. 36.
- Fuller, J. T., Charlotte, N. C. Rib for cotton-gins. No. 911,034; Feb. 2; Sp. p. 21; Gaz. vol. 139; p. 6.
- Fuller, J. W., Jr. (See Meade, R. K., assignor.)
- Fuller, J. W., Jr., Catasauqua, Pa. Pulverizing or grinding mill. No. 922,468; May 25; Sp. p. 4884; Gaz. vol. 142; p. 870.
- Fuller, J. W., Little Rock, Ark. Bed. No. 933,971; Sept. 14; Sp. p. 2054; Gaz. vol. 146; p. 338.
- Fuller & Johnson Manufacturing Company. (See Winkley, F. D., assignor.)
- Fuller, L. M., U. S. Army, assignor of one-fifth to W. L. Velie, Moline, Ill. Recoil-check for ordnance. No. 913,488; Feb. 23; Sp. p. 5065; Gaz. vol. 139; p. 905.
- Fuller Manufacturing Company. (See La Sor, H. G., assignor.)
- Fuller Manufacturing Company. (See Sturtevant, C. A., assignor.)
- Fuller, P. W., Boston, Mass. Recording sound-vibrations. No. 934,600; Sept. 21; Sp. p. 3272; Gaz. vol. 146; p. 570.
- Fuller, P. W., Boston, Mass. Sound-record. No. 934,601; Sept. 21; Sp. p. 3276; Gaz. vol. 146; p. 571.
- Fuller, R., Detroit, Mich. Steering mechanism for self-propelled vehicles. No. 924,757; June 15; Sp. p. 3574; Gaz. vol. 143; p. 614.



*Alphabetical list of patentees—Continued.*

- Fuller, U. G., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 921,605; May 11; Sp. p. 3102; Gaz. vol. 142; p. 530.
- Fuller, U. G., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 921,606; May 11; Sp. p. 3107; Gaz. vol. 142; p. 531.
- Fuller, W. A., Beaver Falls, Pa. Broom-moistener. No. 921,225; May 11; Sp. p. 2311; Gaz. vol. 142; p. 406.
- Fulmer, W. C., assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine. No. 943,534; Dec. 14; Sp. p. 3220; Gaz. vol. 149; p. 542.
- Fulmer, W. T., Suffolk, Va. Trunk. No. 941,446; Nov. 30; Sp. p. 6629; Gaz. vol. 148; p. 1123.
- Fullerton, A., assignor to National Bakers' Egg Co., Sioux City, Iowa. Apparatus for desiccating eggs. No. 916,138; Mar. 23; Sp. p. 5060; Gaz. vol. 140; p. 897.
- Fullerton, A., assignor to National Bakers' Egg Co., Sioux City, Iowa. Apparatus for desiccating eggs. No. 916,139; Mar. 23; Sp. p. 5063; Gaz. vol. 140; p. 897.
- Fullerton, P. Y., Moore, Tex. Attachment for buggy-tops. No. 914,263; Mar. 2; Sp. p. 1299; Gaz. vol. 140; p. 201.
- Fulper, G. W. and W. H., assignors to Fulper Pottery Company, Flemington, N. J. Apparatus for cooling and dispensing liquids. No. 939,594; Nov. 9; Sp. p. 2552; Gaz. vol. 148; p. 418.
- Fulper Pottery Company. (See Fulper, G. W. and W. H., assignors.)
- Fulper, W. H. (See Fulper, G. W. and W. H.)
- Fulton, A. B., Clemons, and T. Bergeron, Augusta, Mont. Composition for removing corns from the feet of horses. No. 934,515; Sept. 21; Sp. p. 3112; Gaz. vol. 146; p. 542.
- Fulton, C. W., Paisley, Scotland. Mounting or suspension of vehicle-bodies. No. 944,426; Dec. 28; Sp. p. 5136; Gaz. vol. 149; p. 901.
- Fulton Company. (See Fulton, W. M., assignor.)
- Fulton, D. C., New Market, and W. B. Smith, Caldwell, N. J. Turnstile for cars. No. 936,112; Oct. 5; Sp. p. 1077; Gaz. vol. 147; p. 164.
- Fulton, H. H., Oroville, Cal. Gas-escape. No. 941,917; Nov. 30; Sp. p. 7623; Gaz. vol. 148; p. 1284.
- Fulton, J. C., Jr. (See Fulton, J. C., assignor.)
- Fulton, J. C., Rockport, assignor to J. C. Fulton, Jr., Corpus Christi, Tex. Means for securing flexible material to supports, frames, &c. No. 917,726; Apr. 6; Sp. p. 1490; Gaz. vol. 141; p. 260.
- Fulton, J. F. (See Webster, O. E., assignor.)
- Fulton, J. S. S. (See Merkel, W. B., assignor.)
- Fulton Manufacturing Company. (See Adams, A. J., assignor.)
- Fulton, W., South Beloit, Ill. Connecting-pin. No. 914,133; Mar. 2; Sp. p. 1025; Gaz. vol. 140; p. 162.
- Fulton, W., and J. F. Bengert, Denver, Colo. Portable lock for doors and windows. No. 932,694; Aug. 31; Sp. p. 6500; Gaz. vol. 145; p. 1119.
- Fulton, W. H., Albany, N. Y. Bed-moving machine. No. 923,424; June 1; Sp. p. 705; Gaz. vol. 143; p. 104.
- Fulton, W. H., assignor to Automatic Service Company, Albany, N. Y. Vending-machine. No. 943,675; Dec. 21; Sp. p. 3555; Gaz. vol. 149; p. 619.
- Fulton, W. M., assignor to Fulton Company, Knoxville, Tenn. Damper-regulator. No. 909,176; Jan. 12; Sp. p. 1537; Gaz. vol. 138; p. 278.
- Fulton, W. M., assignor to Fulton Company, Knoxville, Tenn. Electric brazing apparatus. No. 916,140; Mar. 23; Sp. p. 5064; Gaz. vol. 140; p. 897.
- Funk, A. C., and T. E. Turner, Springfield, Ohio, assignors to International Harvester Company. Hay-press. No. 932,542; Aug. 31; Sp. p. 6162; Gaz. vol. 145; p. 1063.
- Funk, C. J. (See Merrick and Funk.)
- Funk, C. L., assignor of one-half to J. A. Britz, Buffalo, N. Y. Horseshoe. No. 918,526; Apr. 20; Sp. p. 3184; Gaz. vol. 141; p. 584.
- Funk, E. M., Wytheville, Va., assignor to Liberty Cartridge Company, Inc. Shell-primer for breech-loading guns. No. 933,030; Aug. 31; Sp. p. 7154; Gaz. vol. 145; p. 1229.
- Funk, P., Leipzig, Germany, assignor to B. Metz, Brooklyn, N. Y. Coin-freed caretaker. No. 918,663; Apr. 20; Sp. p. 3538; Gaz. vol. 141; p. 630.
- Funke, R. C., Philadelphia, Pa. Hammock. No. 934,516; Sept. 21; Sp. p. 3112; Gaz. vol. 146; p. 543.
- Funkhouser, J., Hymers, Ind. Rotary engine. No. 915,091; Mar. 16; Sp. p. 2962; Gaz. vol. 140; p. 525.
- Furber, F. M. (See Gardner and Furber.)
- Furbush, F. L., assignor to C. G. Sargeant's Sons, Westford, Mass. Regulator for wool-washing machines. No. 917,936; Apr. 13; Sp. p. 1967; Gaz. vol. 141; p. 357.
- Furgeson, P., and E. L. Wheland, Youngstown, Ohio. Drop-door fastening for cars. No. 934,299; Sept. 14; Sp. p. 2690; Gaz. vol. 146; p. 447.
- Furlani, H., Pirano, Austria-Hungary. Automatic fire-alarm. No. 925,375; June 22; Sp. p. 5188; Gaz. vol. 143; p. 913.
- Furlong, A. J., Salt Lake City, Utah. Wire-stripper. No. 927,345; July 6; Sp. p. 1296; Gaz. vol. 144; p. 214.
- Furlong, T. N., San Francisco, Cal. Combined washtub and sink. No. 909,392; Jan. 12; Sp. p. 1941; Gaz. vol. 138; p. 346.
- Furman, M., New York, and W. T. Rowe, Tuckahoe, N. Y. Door-bolt mechanism. No. 932,383; Aug. 24; Sp. p. 5804; Gaz. vol. 145; p. 992.
- Furnidge, S., assignor to Supplementary Spiral Spring Company, St. Louis, Mo. Means for preventing rebound in vehicles. No. 938,753; Nov. 2; Sp. p. 650; Gaz. vol. 148; p. 104.
- Furniss, R. S., Chicago, Ill. Electric-lamp-shade support. No. 925,086; June 15; Sp. p. 4253; Gaz. vol. 143; p. 724.
- Fürst Guido Donnersmarck'sche Kunstseiden & Acetatwerke. (See Schloss, A., assignor.)
- Furuholm, G., East Butte, Mont. Automatic damper-regulator. No. 923,259; June 1; Sp. p. 304; Gaz. vol. 143; p. 48.
- Fusch, G., Hanover, Germany. Atomizing solid medicaments. No. 928,038; July 13; Sp. p. 2776; Gaz. vol. 144; p. 473.
- Fusch, W. A., Decatur, Ill. Reinforced-concrete slab. No. 917,859; Apr. 13; Sp. p. 1796; Gaz. vol. 141; p. 330.
- Fussenecker, E. (See Julius and Fussenecker.)
- Fussenecker, E. (See Julius, Fussenecker, and Blangey.)
- Fussenecker, E., assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Yellow dye and making. No. 932,266; Aug. 24; Sp. p. 5593; Gaz. vol. 145; p. 954.
- Fussey, H. H., Medix Run, Pa., and A. Brown, Andover, N. Y. Ladder. No. 920,316; May 4; Sp. p. 469; Gaz. vol. 142; p. 73.
- Fussey, L. (See Wolsey and Fussey.)
- Fyfe, J. C., Burlington, Wis. Tilting-top tripod. No. 931,692; Aug. 17; Sp. p. 4363; Gaz. vol. 145; p. 741.
- Fylling, O., Crookston, Minn. Wheel attachment for sleds. No. 944,852; Dec. 28; Sp. p. 6094; Gaz. vol. 149; p. 1048.
- Fynn, V. A., Blackheath, London, England. Single-phase commutator-motor. No. 928,438; July 20; Sp. p. 3617; Gaz. vol. 144; p. 638.
- Fyrberg, A., Hopkinton, Mass. Firearm. No. 935,102; Sept. 28; Sp. p. 4289; Gaz. vol. 146; p. 767.
- Gaba, U. T., Baxter Springs, Kans. Pulley. No. 928,746; July 20; Sp. p. 4242; Gaz. vol. 144; p. 739.
- Gabel, C., Hawkeye, Iowa. Dust-pan. No. 914,484; Mar. 9; Sp. p. 1748; Gaz. vol. 140; p. 300.
- Gabel, C., Hawkeye, Iowa. Veterinary obstetrical instrument. No. 935,362; Sept. 28; Sp. p. 4808; Gaz. vol. 146; p. 850.
- Gabel, E., Utica, N. Y. Combination curtain and shade fixture. No. 943,222; Dec. 14; Sp. p. 2554; Gaz. vol. 149; p. 433.
- Gabel, H. W., Fond du Lac, Wis. Spark-timer. No. 916,694; Mar. 30; Sp. p. 6165; Gaz. vol. 140; p. 1104.
- Gabel, T. R., Los Angeles, and A. L. Eacrett, Hollywood, Cal. Trolley-retriever. No. 913,122; Feb. 23; Sp. p. 4328; Gaz. vol. 139; p. 783.
- Gabellini, C., assignor to Societa' Cemento Armato e Retinato Gabellini, Rome, Italy. Float of reinforced concrete. No. 920,046; Apr. 27; Sp. p. 6606; Gaz. vol. 141; p. 1124.
- Gabetti, L., Hoboken, N. J. Steering mechanism. No. 928,957; July 27; Sp. p. 4660; Gaz. vol. 144; p. 836.
- Gabler, Gebrüder. (See Weigle, T., assignor.)
- Gabler, J., Mülhausen, Germany. Welt-cutting mechanism for welt-replenishing looms. No. 925,891; June 22; Sp. p. 5888; Gaz. vol. 143; p. 1017.
- Gabler, J., Mülhausen, Germany. Shuttle-box for bobbin-changing looms. No. 926,480; June 29; Sp. p. 7064; Gaz. vol. 143; p. 1245.
- Gabler, J. C., New York, N. Y. Temporary roof. No. 928,039; July 13; Sp. p. 2777; Gaz. vol. 144; p. 473.
- Gabriel, C., Chicago, Ill. Machine for bending angle-irons. No. 924,758; June 15; Sp. p. 3576; Gaz. vol. 143; p. 614.
- Gabriel, C., Chicago, Ill. Machine for dishing and flanging plates. No. 942,062; Dec. 7; Sp. p. 39; Gaz. vol. 149; p. 9.
- Gabriel, M., Matteawan, N. Y. Window-sash. No. 929,579; July 27; Sp. p. 5924; Gaz. vol. 144; p. 1041.
- Gabriel, W., Detroit, Mich. Reinforced-concrete floor construction. No. 908,658; Jan. 5; Sp. p. 497; Gaz. vol. 138; p. 77.
- Gabriel, W., Detroit, Mich. Reinforced-concrete track-tie. No. 908,765; Jan. 5; Sp. p. 711; Gaz. vol. 138; p. 110.
- Gabriel, W., Detroit, Mich. Railway-tie. No. 908,766; Jan. 5; Sp. p. 713; Gaz. vol. 138; p. 111.
- Gabrielian, A. J., Boston, Mass. Shoe. No. 914,485; Mar. 9; Sp. p. 1749; Gaz. vol. 140; p. 300.
- Gabrielian, A. J., Boston, Mass. Lasting-machine. No. 914,486; Mar. 9; Sp. p. 1750; Gaz. vol. 140; p. 300.
- Gabrielian, C., assignor to L. C. Smith & Bros. Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 929,933; Aug. 3; Sp. p. 663; Gaz. vol. 145; p. 105.
- Gabrielson, W., Kansas City, Mo. Hook for catching fish and animals. No. 922,879; May 25; Sp. p. 5760; Gaz. vol. 142; p. 1004.
- Gadbury, G. W. (See Moore, W. G., assignor.)
- Gadd, A., and G. Dillberg, Övedsgård, near Övedsklostergård, Sweden. Means and method for protecting from decomposition and putrefaction vegetable fibers, &c. No. 936,113; Oct. 5; Sp. p. 1079; Gaz. vol. 147; p. 165.
- Gadient, M. J. (See Klaus and Gadient.)
- Gaede, W., Freiburg, Breisgau, Germany. Rotary mercury vacuum-pump. No. 921,535; May 11; Sp. p. 2953; Gaz. vol. 142; p. 508.

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- Gaffney, J. P. (See Snyder and Gaffney.)
- Gage, B. O., Warren, Mass., assignor to Warren Steam Pump Company. Steam-pump. No. 914,037; Mar. 2; Sp. p. 833; Gaz. vol. 140; p. 128.
- Gage, D. W., Cambridge, Mass. Razor-blade holder. No. 917,043; Apr. 6; Sp. p. 163; Gaz. vol. 141; p. 31.
- Gage, E. W., New York, N. Y. Clock. No. 937,232; Oct. 19; Sp. p. 3405; Gaz. vol. 147; p. 589.
- Gage, G. W., Sr., Epping, N. H. Foot-rest for radiators. No. 911,488; Feb. 2; Sp. p. 872; Gaz. vol. 139; p. 154.
- Gage, H. R. (See Morris, H., assignor.)
- Gage, W. W., *et al.* (See Wilcox, H., assignor.)
- Gaglio, G., and L. Villani, Milan, Italy. Switch. No. 918,434; Apr. 13; Sp. p. 2986; Gaz. vol. 141; p. 525.
- Gagné, L. D., Manchester, N. H. Printing-frame. No. 935,486; Sept. 28; Sp. p. 5029; Gaz. vol. 146; p. 889.
- Gagné, W. G., Portland, Me. Ventilator. No. 920,858; May 4; Sp. p. 1550; Gaz. vol. 142; p. 250.
- Gagnon, E., Central Falls, R. I. Lock. No. 914,819; Mar. 9; Sp. p. 2438; Gaz. vol. 140; p. 410.
- Gahn, F., Streator, Ill. Wagon dump and elevator. No. 914,565; Mar. 9; Sp. p. 1918; Gaz. vol. 140; p. 327.
- Gaignard, R., Paris, France. Resilient wheel. No. 913,819; Mar. 2; Sp. p. 251; Gaz. vol. 140; p. 50.
- Gail, C. H., Kenosha, Wis. Couch fabric. No. 938,569; Nov. 2; Sp. p. 292; Gaz. vol. 148; p. 43.
- Gail, C. H., Kenosha, Wis. Fabric for beds, couches, &c. No. 943,245; Dec. 14; Sp. p. 2608; Gaz. vol. 149; p. 442.
- Gail, J. F., assignor to Simmons Manufacturing Company, Kenosha, Wis. Buffing-machine. No. 927,036; July 6; Sp. p. 700; Gaz. vol. 144; p. 112.
- Gail, J. F., assignor to Simmons Manufacturing Company, Kenosha, Wis. Buffing mechanism. No. 928,253; July 20; Sp. p. 3229; Gaz. vol. 144; p. 575.
- Gail, J. F., assignor to Simmons Manufacturing Company, Kenosha, Wis. Machine for buffing bedstead-mounts and the like. No. 928,254; July 20; Sp. p. 3238; Gaz. vol. 144; p. 576.
- Gail, J. F., assignor to Simmons Manufacturing Company, Kenosha, Wis. Bedstead-mount-buffing machine. No. 941,706; Nov. 30; Sp. p. 7173; Gaz. vol. 148; p. 1210.
- Gaillard, A., Barcelona, Spain. Apparatus for making sulfuric acid. No. 909,578; Jan. 12; Sp. p. 2315; Gaz. vol. 138; p. 410.
- Gaillard, E. N., New York, N. Y. Dress-shield. No. 931,591; Aug. 17; Sp. p. 4114; Gaz. vol. 145; p. 708.
- Gailor, C. F., New York, N. Y. Welded rail-joint. No. 930,066; Aug. 3; Sp. p. 934; Gaz. vol. 145; p. 150.
- Gailor, W. H., Saratoga Springs, N. Y. Road-oiler. No. 932,116; Aug. 24; Sp. p. 5303; Gaz. vol. 145; p. 903.
- Gaines, F. F., Savannah, Ga. Locomotive-boiler furnace. No. 934,157; Sept. 14; Sp. p. 2431; Gaz. vol. 146; p. 399.
- Gaines, F. F., Savannah, Ga. Locomotive-boiler furnace. No. 943,823; Dec. 21; Sp. p. 3849; Gaz. vol. 149; p. 670.
- Gaines, F. L., Grand Rapids, Mich. Invalid-bed. No. 918,991; Apr. 20; Sp. p. 4238; Gaz. vol. 141; p. 740.
- Gaines, F. L., Grand Rapids, Mich. Land-roller. No. 918,992; Apr. 20; Sp. p. 4239; Gaz. vol. 141; p. 740.
- Gaines, F. L., Grand Rapids, Mich. Road-float. No. 918,993; Apr. 20; Sp. p. 4240; Gaz. vol. 141; p. 740.
- Gaines, H. M., Glastonbury, Conn. Wrench. No. 941,707; Nov. 30; Sp. p. 7183; Gaz. vol. 148; p. 1210.
- Gaines, V. P., *et al.* (See Weiss, G. F., assignor.)
- Gaines, W. F., Cross Cut, Tex. Draft appliance. No. 937,432; Oct. 19; Sp. p. 3840; Gaz. vol. 147; p. 654.
- Gaire, G., P., and J., Paterson, N. J. Machine for beveling round glass. No. 915,284; Mar. 16; Sp. p. 3364; Gaz. vol. 140; p. 587.
- Gaire, P. (See Gaire, G., P., and J.)
- Gaiser, A. R. (See Gaiser, L. E., assignor.)
- Gaiser, L. E., assignor to A. R. Gaiser, Louisville, Ky. Mill. No. 932,543; Aug. 31; Sp. p. 6162; Gaz. vol. 145; p. 1068.
- Gajewski, J. S., Milwaukee, Wis. Antislipping attachment. No. 940,799; Nov. 23; Sp. p. 5235; Gaz. vol. 148; p. 883.
- Gajle, W., Chicago, Ill. Ratchet-clamp for car-replacers. No. 942,632; Dec. 7; Sp. p. 1251; Gaz. vol. 149; p. 205.
- Galarneault, L. J. (See White, J. H., assignor.)
- Gallás, T. V., San Francisco, Cal. Mold for cement washtubs. No. 941,139; Nov. 23; Sp. p. 5952; Gaz. vol. 148; p. 1001.
- Galassi, T. V., San Francisco, Cal. Mold for artificial stone. No. 935,483; Sept. 28; Sp. p. 5024; Gaz. vol. 146; p. 888.
- Galbraith, D. L., Bay City, Mich. Knee-warmer. No. 927,785; July 13; Sp. p. 2250; Gaz. vol. 144; p. 389.
- Galbraith, G. L. (See Davis, L. K., assignor.)
- Galbraith, H. F., and C. F. Black, Philadelphia, Pa. Table-mat. No. 932,267; Aug. 24; Sp. p. 5593; Gaz. vol. 145; p. 954.
- Galbreath, E. C., *et al.* (See Ashley, W. J., assignor.)
- Galbreath, W. O., Philadelphia, Pa. Operating-table for osteopathic treatment. No. 933,170; Sept. 7; Sp. p. 282; Gaz. vol. 146; p. 47.
- Gale, A., and D. M. Lilley; said Gale assignor to E. Gale, Bonham, Tex. Air-brake-setting appliance. No. 918,435; Apr. 13; Sp. p. 2988; Gaz. vol. 141; p. 525.
- Gale, E. (See Gale and Lilley, assignors.)
- Gale, F. G., Waterville, Quebec, Canada. Bedstead. No. 944,084; Dec. 21; Sp. p. 4410; Gaz. vol. 149; p. 760.
- Gale, F. G., Waterville, Quebec, Canada. Bed-frame. No. 944,085; Dec. 21; Sp. p. 4412; Gaz. vol. 149; p. 760.
- Gale, H. B., Boston, Mass., assignor to Submarine Signal Company, Waterville, Me. Device for producing sound-signals in water. No. 935,750; Oct. 5; Sp. p. 270; Gaz. vol. 147; p. 43.
- Gale, H. E., and E. E. Krenzel, Twin Falls, Idaho. Sage-brush and weed cutter. No. 939,595; Nov. 9; Sp. p. 2554; Gaz. vol. 148; p. 419.
- Gale, K. W., Los Angeles, Cal. Door-closure. No. 938,048; Oct. 26; Sp. p. 5105; Gaz. vol. 147; p. 878.
- Gale, L. A., Malden, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for covering boot and shoe straps. No. 931,748; Aug. 24; Sp. p. 4496; Gaz. vol. 145; p. 783.
- Galena Signal Oil Co. (See Conradson, P. H., assignor.)
- Galeski, J. S., Richmond, Va. Eyeglass-guard. No. 924,226; June 8; Sp. p. 2488; Gaz. vol. 143; p. 404.
- Galey, J. J., Atwood, Tenn. Nut-lock. No. 918,527; Apr. 20; Sp. p. 3185; Gaz. vol. 141; p. 584.
- Galey, J. J., Atwood, Tenn. Rail-joint. No. 923,351; June 1; Sp. p. 564; Gaz. vol. 143; p. 81.
- Galion Metallic Vault Company. (See Myers and Poister, assignors.)
- Galitz, C., Sassnitz, Germany. Chimney attachment. No. 914,134; Mar. 2; Sp. p. 1026; Gaz. vol. 140; p. 162.
- Gall, J. (See Bolland, Gall, and Dester.)
- Gallagher, A. P., *et al.* (See Gallagher, H. and G. S., assignors.)
- Gallagher, B., Lynn, Mass. Machine for filling bottles. No. 922,571; May 25; Sp. p. 5095; Gaz. vol. 142; p. 904.
- Gallagher, F. S., Collinwood, Ohio. Door mechanism. No. 914,135; Mar. 2; Sp. p. 1026; Gaz. vol. 140; p. 162.
- Gallagher, G. R., Chicago, Ill. Hot-water heater. No. 937,209; Oct. 19; Sp. p. 3345; Gaz. vol. 147; p. 551.
- Gallagher, G. S. (See Gallagher, H. and G. S.)
- Gallagher, H. and G. S., assignors of one-half to said H. Gallagher and one-half to A. P. Gallagher, New York, N. Y. Steam-boiler furnace. No. 987,433; Oct. 19; Sp. p. 3842; Gaz. vol. 147; p. 654.
- Gallagher, J., Watertown, N. Y. Reamer. No. 914,653; Mar. 9; Sp. p. 2081; Gaz. vol. 140; p. 354.
- Gallagher, J. P. (See Murphy, W., assignor.)
- Gallagher, R. D., Jr., New York, N. Y. Car-coupling device. No. 915,341; Mar. 16; Sp. p. 3474; Gaz. vol. 140; p. 606.
- Gallagher, R. D., Jr., New York, N. Y. Centering mechanism for radially-movable car-couplings. No. 916,946; Mar. 30; Sp. p. 6648; Gaz. vol. 140; p. 1184.
- Gallagher, R. D., Jr., New York, N. Y. Car-coupling. No. 927,138; July 6; Sp. p. 911; Gaz. vol. 144; p. 147.
- Gallagher, R. H., and R. E. Dutcher, Plainville, Nebr. Dental instrument. No. 916,856; Mar. 30; Sp. p. 6454; Gaz. vol. 140; p. 1153.
- Gallagher, R. W., assignor to Automatic Billing Company, Los Angeles, Cal. Statement-delivery apparatus for meters. No. 924,158; June 8; Sp. p. 2317; Gaz. vol. 143; p. 380.
- Gallagher, R. W., assignor to Automatic Billing Company, Los Angeles, Cal. Statement-delivery roll. No. 932,851; Aug. 31; Sp. p. 6816; Gaz. vol. 145; p. 1169.
- Gallagher, W. T., and J. W. Billee, Richmond, Va. Roof-bracket. No. 944,185; Dec. 21; Sp. p. 4615; Gaz. vol. 149; p. 792.
- Gallagher, E. B., assignor to Clover Manufacturing Company, New York, N. Y. Means for delivering change. (Reissue.) No. 12,913; Jan. 26; Sp. p. 5272; Gaz. vol. 138; p. 948.
- Gallagher, E. B., assignor to Clover Manufacturing Company, New York, N. Y. Grinding composition. No. 924,604; June 8; Sp. p. 3243; Gaz. vol. 143; p. 529.
- Gallaher, F. F., Camden, and J. F. Burke, Palmyra, N. J. Bathing-boat. No. 918,994; Apr. 20; Sp. p. 4241; Gaz. vol. 141; p. 741.
- Gallaread, B. C., Canton, Miss. Cotton-compressor. No. 942,443; Dec. 7; Sp. p. 856; Gaz. vol. 149; p. 140.
- Gallas, M., Cincinnati, Ohio. Razor-stropping device. No. 937,786; Oct. 26; Sp. p. 4571; Gaz. vol. 147; p. 792.
- Gallatin, O. A., assignor to Farmers Plow Company, Ashland, Nebr. Combined roller, harrow, and cultivator. No. 922,469; May 25; Sp. p. 4886; Gaz. vol. 142; p. 870.
- Gallery, C. (See Shepard, H. E., assignor.)
- Gallia, W., *et al.* (See Matsek, J., assignor.)
- Galligan, T. F., Providence, R. I. Coin-sorter. No. 937,517; Oct. 19; Sp. p. 4027; Gaz. vol. 147; p. 684.
- Gallinowsky, H., Cincinnati, Ohio. Weatherproof composition. No. 933,171; Sept. 7; Sp. p. 284; Gaz. vol. 146; p. 47.



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- Galloway, E. C., Buttrville, Ark. Fertilizer-distributor. No. 940,455; Nov. 16; Sp. p. 4477; Gaz. vol. 148; p. 748.
- Galloway, G. N., Elwood, Ind. Clothes-drier. No. 909,579; Jan. 12; Sp. p. 2316; Gaz. vol. 138; p. 410.
- Galloway, J. M., and A. W. Trevor, assignors to Rock Island Specialty Manufacturing Company, Rock Island, Ill. Tube-repairing device. No. 925,323; June 15; Sp. p. 4694; Gaz. vol. 143; p. 801.
- Galloway, L., Montclair, N. J. Combined heating-plate and water-heater. No. 934,517; Sept. 21; Sp. p. 3112; Gaz. vol. 146; p. 543.
- Galloway, L. W., Norwood, Colo. Pneumatic-tire armor. No. 938,311; Oct. 26; Sp. p. 5689; Gaz. vol. 147; p. 968.
- Galloway, T. I., Menard, Ill. Automatic heat-regulating apparatus. No. 929,580; July 27; Sp. p. 6925; Gaz. vol. 144; p. 1042.
- Galloway, T. I., Menard, Ill. Educational appliance. No. 932,852; Aug. 31; Sp. p. 6818; Gaz. vol. 145; p. 1170.
- Gallowicks, M., New York, N. Y. Oil-feed for drills. No. 935,484; Sept. 28; Sp. p. 5025; Gaz. vol. 146; p. 888.
- Gallup, G., Sharon, Wis. Weather-strip. No. 909,996; Jan. 19; Sp. p. 3157; Gaz. vol. 138; p. 583.
- Gallup, J. W., Bellevue, Ohio. Dish-washer. No. 925,892; June 22; Sp. p. 5890; Gaz. vol. 143; p. 1017.
- Galoffre, P. E., Paris, France. Apparatus for submarine operations. No. 935,485; Sept. 28; Sp. p. 5026; Gaz. vol. 146; p. 888.
- Galusha, A. L., Dorchester, Mass. Internal-combustion engine. No. 914,566; Mar. 9; Sp. p. 1921; Gaz. vol. 140; p. 327.
- Galvin, J. W., and G. Walters, San Francisco, Cal. Folding carton. No. 934,602; Sept. 21; Sp. p. 3280; Gaz. vol. 146; p. 571.
- Galy, G., Bois Colombes, France. Match. No. 914,264; Mar. 2; Sp. p. 1300; Gaz. vol. 140; p. 202.
- Gamage, C. H., *et al.* (See Richardson, C. H., assignor.)
- Gamage, H. C., New York, N. Y. Lubricating device for car-axle boxes. No. 931,053; Aug. 17; Sp. p. 3001; Gaz. vol. 145; p. 529.
- Gamage, H. C., New York, N. Y., assignor to D. P. Company. Car-axle-box lid. No. 913,371; Feb. 23; Sp. p. 4839; Gaz. vol. 139; p. 867.
- Gamage, H. C., New York, N. Y., assignor to D. P. Company. Dust-guard for car-axle boxes. No. 913,528; Apr. 20; Sp. p. 3186; Gaz. vol. 141; p. 584.
- Gambier, E. V., trustee. (See Terrell, E., assignor.)
- Gambino, N., Palermo, Italy. Automatic relief-valve. No. 938,570; Nov. 2; Sp. p. 295; Gaz. vol. 148; p. 43.
- Gamble, H. P. (See Bates and Gamble.)
- Gamble, J., assignor to G. A. Reach, Philadelphia, Pa. Base-ball mitt. No. 916,947; Mar. 30; Sp. p. 6649; Gaz. vol. 140; p. 1185.
- Gamble, J. E. (See McPherson and Gamble.)
- Gamble, J. R., *et al.* (See Bryant, W. A., assignor.)
- Gamble, J. W. (See Hallowell and Gamble.)
- Gamble, J. W., Philadelphia, Pa. Separator. No. 926,107; June 29; Sp. p. 6325; Gaz. vol. 143; p. 1123.
- Gamble, J. W., Philadelphia, Pa. Feed-water heater and purifier. No. 926,109; June 29; Sp. p. 6328; Gaz. vol. 143; p. 1124.
- Gamble, J. W., Carpentersville, Ill. Fore-carriage. No. 942,319; Dec. 7; Sp. p. 622; Gaz. vol. 149; p. 99.
- Gamble, J. W., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Combined heater and separator. No. 926,108; June 29; Sp. p. 6327; Gaz. vol. 143; p. 1123.
- Gamble, L. B., Newport, Ark. Switch mechanism. No. 917,284; Apr. 6; Sp. p. 668; Gaz. vol. 141; p. 114.
- Gamble, S. E., Sebastopol, Cal. Automatic fire-lighter. No. 908,851; Jan. 5; Sp. p. 870; Gaz. vol. 138; p. 138.
- Gamble, W. H., Los Angeles, Cal. Force-feed lubricator. No. 917,578; Apr. 6; Sp. p. 1201; Gaz. vol. 141; p. 211.
- Gamble, W. M., Chicago, Ill. Shoulder-brace. No. 918,664; Apr. 20; Sp. p. 3540; Gaz. vol. 141; p. 630.
- Gamewell Fire-Alarm Telegraph Company. (See Cole, F. W., assignor.)
- Gamewell Fire Alarm Telegraph Company. (See Suren, N. H., assignor.)
- Gammel, K., Stuttgart, Germany. Drying macaroni. No. 918,436; Apr. 13; Sp. p. 2989; Gaz. vol. 141; p. 526.
- Gammel, K., Stuttgart, Germany. Drying apparatus. No. 932,695; Aug. 31; Sp. p. 6501; Gaz. vol. 145; p. 1120.
- Gammelgaard, P. N. (See Neumann and Gammelgaard.)
- Gammeter, J. R., assignor to B. F. Goodrich Company, Akron, Ohio. Apparatus for vulcanizing. No. 913,720; Mar. 2; Sp. p. 90; Gaz. vol. 140; p. 16.
- Gandil, E. V., Copenhagen, Denmark. Adjusting device for milking-machines. No. 936,771; Oct. 12; Sp. p. 2452; Gaz. vol. 147; p. 408.
- Ganiard, M. A. (See Bailey and Ganiard.)
- Ganiard, M. A., and E. R. Bailey, Clarinda, Iowa. Adjustable flexible bearing. No. 929,581; July 27; Sp. p. 5926; Gaz. vol. 144; p. 1042.
- Gannoe, T. A., assignor of three-eighths to J. Schmutz, Warren, Pa. Trolley-wheel. No. 928,119; July 13; Sp. p. 2917; Gaz. vol. 144; p. 499.
- Gannoe, T. A., assignor of three-eighths to J. Schmutz, Warren, Pa. Trolley-harp. No. 931,592; Aug. 17; Sp. p. 4115; Gaz. vol. 145; p. 708.
- Gano, C. L., Tiffin, Ohio. Sash-lock. No. 911,004; Jan. 26; Sp. p. 5232; Gaz. vol. 138; p. 942.
- Ganong, H., Wheaton, Wis. Loader. No. 910,368; Jan. 19; Sp. p. 3953; Gaz. vol. 138; p. 711.
- Gans, R., Pankow, near Berlin, assignor to J. D. Riedel Aktiengesellschaft, Berlin, Germany. Alumino-silicate or artificial zeolite. No. 914,405; Mar. 9; Sp. p. 1606; Gaz. vol. 140; p. 274.
- Gans, R., Pankow, near Berlin, assignor to J. D. Riedel Aktiengesellschaft, Berlin, Germany. Alumino-silicate or artificial zeolite. No. 943,535; Dec. 14; Sp. p. 3225; Gaz. vol. 149; p. 542.
- Ganson, J. E., Columbus, Ohio. Track-sander for locomotives. No. 933,972; Sept. 14; Sp. p. 2056; Gaz. vol. 146; p. 338.
- Gantt, H. L., Pawtucket, R. I. Apparatus for treating cloth. No. 911,560; Feb. 2; Sp. p. 1029; Gaz. vol. 139; p. 178.
- Gantt, J. T., Macon, Ga. Plow. No. 942,849; Dec. 7; Sp. p. 1704; Gaz. vol. 149; p. 276.
- Gantt, M. W., assignor of one-half to J. G. Cousar, Athens, Ga. Optometroscope. No. 944,853; Dec. 28; Sp. p. 6095; Gaz. vol. 149; p. 1048.
- Ganz, J. (See Lovass and Ganz.)
- Ganzel, A., Westfield, N. J. Screen. No. 910,280; Jan. 19; Sp. p. 3784; Gaz. vol. 138; p. 681.
- Ganzel, A., Westfield, N. J. Screen. No. 910,281; Jan. 19; Sp. p. 3787; Gaz. vol. 138; p. 682.
- Ganzhorn, P., Chicago, Ill. Sanitary toilet seat cover. No. 944,854; Dec. 28; Sp. p. 6104; Gaz. vol. 149; p. 1048.
- Gara, P. O. (See Murray, M. D., assignor.)
- Garant, H., assignor of one-half to W. B. Davis, Chattanooga, Tenn. Stop-motion for circular-knitting machines. No. 908,989; Jan. 5; Sp. p. 1153; Gaz. vol. 138; p. 183.
- Garber, J. H., Arritts, Va. Blind-hinge. No. 919,150; Apr. 20; Sp. p. 4522; Gaz. vol. 141; p. 790.
- Garbutt, W. J. (See Wentworth and Garbutt.)
- Garcelon, G. H. (See Lamme, Feicht, and Garcelon.)
- Gard, J. S., Oakland, Cal. Fireproof wall. No. 916,141; Mar. 23; Sp. p. 5069; Gaz. vol. 140; p. 898.
- Gard, W. E., South Orange, N. J. Liquid-fuel burner. No. 918,310; Apr. 13; Sp. p. 2736; Gaz. vol. 141; p. 485.
- Gard, W. E., South Orange, N. J. Lamp-burner. No. 938,754; Nov. 2; Sp. p. 652; Gaz. vol. 148; p. 104.
- Gardenhire, S. M. (See Richards, F. H., assignor.)
- Gardener, H., Paterson, N. J. Water-supply valve. No. 924,052; June 8; Sp. p. 2072; Gaz. vol. 143; p. 345.
- Gardiner, C., assignor to I. W. Thompson, Philadelphia, Pa. Car-fender. No. 933,973; Sept. 14; Sp. p. 2058; Gaz. vol. 146; p. 339.
- Gardiner, C. L., assignor to 1900 Washer Company, Binghamton, N. Y. Water-filter. No. 913,636; Feb. 23; Sp. p. 5431; Gaz. vol. 139; p. 956.
- Gardiner, R. M. (See Scott, O., assignor.)
- Gardiner, W. (See Stirlen and Gardiner.)
- Gardiner, W., assignor to Ajax Battery Company, Chicago, Ill. Battery. No. 938,312; Oct. 26; Sp. p. 5690; Gaz. vol. 147; p. 968.
- Gardner, A. M., assignor of one-half to B. C. Woodward, Nashville, Tenn. Penholder. No. 933,547; Sept. 7; Sp. p. 1205; Gaz. vol. 146; p. 176.
- Gardner, A. M., assignor of one-half to B. C. Woodward, Nashville, Tenn. Belt-buckle. No. 941,242; Nov. 23; Sp. p. 6175; Gaz. vol. 148; p. 1036.
- Gardner, C., Horseheads, N. Y. Cultivator. No. 935,487; Sept. 28; Sp. p. 5031; Gaz. vol. 146; p. 889.
- Gardner, C., Horseheads, N. Y. Cultivator. No. 935,488; Sept. 28; Sp. p. 5033; Gaz. vol. 146; p. 889.
- Gardner, C. C., Cedar Rapids, Iowa, assignor of forty-five one-hundredths to P. N. Kimes. Mail-bag receiving and delivering apparatus. No. 921,226; May 11; Sp. p. 2313; Gaz. vol. 142; p. 406.
- Gardner, C. E., Unionville, Va. Tooth for steam dredgers, excavators, &c. No. 935,147; Sept. 28; Sp. p. 4376; Gaz. vol. 146; p. 781.
- Gardner, C. E. W., Orange, N. J. Recording mechanism. No. 918,529; Apr. 20; Sp. p. 3187; Gaz. vol. 141; p. 584.
- Gardner, C. L., Peoria, Ill. Grain-spout. No. 936,772; Oct. 12; Sp. p. 2454; Gaz. vol. 147; p. 408.
- Gardner, C. L., assignor to Gardner Weigher Company, Peoria, Ill. Cross-conveyer. No. 931,054; Aug. 17; Sp. p. 3002; Gaz. vol. 145; p. 530.
- Gardner, C. R., Aurora, Ind. Folding bed. No. 939,241; Nov. 9; Sp. p. 1721; Gaz. vol. 148; p. 299.
- Gardner, C. W. (See Thornhill, W. C., assignor.)
- Gardner, E. C., Montreal, Quebec, Canada. Antiskidding device for wheels. No. 914,712; Mar. 9; Sp. p. 2229; Gaz. vol. 140; p. 374.
- Gardner, F. E. (See Gardner, F. N. and F. E.)
- Gardner, F. N., Beloit, Wis. Grinding or polishing machine. No. 920,859; May 4; Sp. p. 1551; Gaz. vol. 142; p. 250.
- Gardner, F. N., and F. E., Beloit, Wis. Grinding and polishing machine. No. 909,852; Jan. 19; Sp. p. 2923; Gaz. vol. 138; p. 544.
- Gardner, F. W., New London, N. H. Air-compressor. No. 936,114; Oct. 5; Sp. p. 1080; Gaz. vol. 147; p. 165.
- Gardner, G. B., Haverhill, and F. M. Furber, Lynn, Mass. Headlight-holder. No. 920,860; May 4; Sp. p. 1554; Gaz. vol. 142; p. 251.
- Gardner, H. C., Chicago, Ill. Method of and apparatus for drying air. No. 910,525; Jan. 26; Sp. p. 4289; Gaz. vol. 138; p. 787.
- Gardner, H. H., Santa Ana, Cal. Bumper for vehicles. No. 911,715; Feb. 9; Sp. p. 1380; Gaz. vol. 139; p. 256.
- Gardner, H. H., Santa Ana, Cal. Mold for making cement concrete pipe. No. 920,317; May 4; Sp. p. 470; Gaz. vol. 142; p. 73.

*Alphabetical list of patentees—Continued.*

- Gardner, J., Fleetwood, England. Time cut-out. No. 912,555; Feb. 16; Sp. p. 3171; Gaz. vol. 139; p. 569.
- Gardner, J., Knott End, near Fleetwood, England. Means for signaling or effecting operations by means of sound-vibrations. No. 913,372; Feb. 23; Sp. p. 4840; Gaz. vol. 139; p. 867.
- Gardner, L. A., Oakland, Cal. Cuff-button. No. 939,680; Nov. 9; Sp. p. 2725; Gaz. vol. 148; p. 450.
- Gardner, L. J., Baltimore, Md. Shutter-bower. No. 929,082; July 27; Sp. p. 4926; Gaz. vol. 144; p. 878.
- Gardner, M. B., assignor to International Corset Co., Aurora, Ill. Corset-lacing device. No. 914,406; Mar. 9; Sp. p. 1607; Gaz. vol. 140; p. 274.
- Gardner, R. A., Los Angeles, Cal. Caisson-dredger. No. 941,869; Nov. 30; Sp. p. 7533; Gaz. vol. 148; p. 1267.
- Gardner, R. J., assignor to S. Jarvis Adams Company, Pittsburg, Pa. Car-wheel. No. 932,605; Aug. 31; Sp. p. 6311; Gaz. vol. 145; p. 1090.
- Gardner, S., assignor of one-half to L. Adler and H. Grange, Savannah, Ga. Non-refillable bottle. No. 909,780; Jan. 12; Sp. p. 2706; Gaz. vol. 138; p. 479.
- Gardner, W. J. (See Kane, M. M., assignor.)
- Gardner, W. R., Los Angeles, Cal. Rotary eraser. No. 933,299; Sept. 7; Sp. p. 609; Gaz. vol. 146; p. 93.
- Gardner Weigher Company. (See Gardner, C. L., assignor.)
- Gardy, A. (See Batault and Gardy.)
- Gardy, H. D., Philadelphia, Pa. Toy pistol. No. 909,393; Jan. 12; Sp. p. 1943; Gaz. vol. 138; p. 347.
- Gardy, H. D., Philadelphia, assignor of three-fourths to T. C. Burke, Chester, Pa. Street-car fender. No. 929,205; July 27; Sp. p. 5183; Gaz. vol. 144; p. 919.
- Garfield, C. H., Providence, R. I. Nut-lock. No. 910,660; Jan. 26; Sp. p. 4578; Gaz. vol. 138; p. 833.
- Garford Company. (See Heaslet, J. G., assignor.)
- Gerforth, W. E., Normanton, England. Respiration apparatus for use in coal-mines and other places. No. 911,389; Feb. 2; Sp. p. 715; Gaz. vol. 139; p. 123.
- Carl, M., Akron, Ohio. Combined fire-alarm telegraph and telephone system. No. 916,142; Mar. 23; Sp. p. 5070; Gaz. vol. 140; p. 898.
- Carl, M., assignor, by mesne assignments, to Akron Automatic Hot Water Heater Co., Akron, Ohio. Valve device. No. 924,159; June 8; Sp. p. 2321; Gaz. vol. 143; p. 381.
- Garland, A., Chicago, Ill. Puzzle. No. 944,130; Dec. 21; Sp. p. 4516; Gaz. vol. 149; p. 775.
- Garland, M., assignor to M. Garland Company, Bay City, Mich. Expanding cable-wheel. No. 924,338; June 8; Sp. p. 2715; Gaz. vol. 143; p. 442.
- Garland, M. J., Evanston, Ill. Ash-sifter. No. 920,318; May 4; Sp. p. 471; Gaz. vol. 142; p. 74.
- Garland Nut & Rivet Company. (See Sonneborn, C., assignor.)
- Garland, T. H., Chicago, Ill. Lamp-jack. No. 909,883; Jan. 19; Sp. p. 2925; Gaz. vol. 138; p. 544.
- Garland, W. H., Kansas City, Mo. Coin-holder. No. 916,293; Mar. 23; Sp. p. 5343; Gaz. vol. 140; p. 946.
- Garlick, A. S., Meriden, Conn. Liquid-gage. No. 943,868; Dec. 21; Sp. p. 3942; Gaz. vol. 149; p. 685.
- Garlick, W. J., assignor to J. Fortinsky, Paterson, N. J., and M. Schlesinger, New York, N. Y. Loom. No. 924,339; June 8; Sp. p. 2717; Gaz. vol. 143; p. 442.
- Garlinghouse, B. A., assignor to Jackson Fence Company, Jackson, Mich. Die for forming fence-ties. No. 928,377; July 20; Sp. p. 3500; Gaz. vol. 144; p. 619.
- Garman, A. S. (See Werner, E., assignor.)
- Garman, J. H. A. and J. M. Travis, assignors to Multiplex Faucet Company, St. Louis, Mo. Regulating-valve for aerated beverages. No. 911,005; Jan. 26; Sp. p. 5233; Gaz. vol. 138; p. 942.
- Garner, C. E., assignor of one-half to T. R. Harsha, East Liverpool, Ohio. Hat, coat, and umbrella rack. No. 911,035; Feb. 2; Sp. p. 23; Gaz. vol. 139; p. 6.
- Garner, H., Media, Pa. Mail-bag catcher and deliverer. No. 915,092; Mar. 16; Sp. p. 2964; Gaz. vol. 140; p. 525.
- Garner, J. L., Delafeld, Wis. Wrench. No. 929,125; July 27; Sp. p. 5016; Gaz. vol. 144; p. 892.
- Garner, L. W., Expo, Va. Expandable boring-bit. No. 931,593; Aug. 17; Sp. p. 4116; Gaz. vol. 145; p. 708.
- Garner, S. L., Tulsa, Okla. Slicing-machine. No. 940,867; Nov. 23; Sp. p. 5370; Gaz. vol. 148; p. 910.
- Garner, W. R., Palestine, Tex. Nut-lock. No. 930,173; Aug. 3; Sp. p. 1161; Gaz. vol. 145; p. 189.
- Garner, W. R., Palestine, Tex. Nut-lock. No. 930,954; Aug. 10; Sp. p. 2754; Gaz. vol. 145; p. 469.
- Garner, W. R., assignor of one-twentieth to H. C. Gilchrist and two-tenths to W. C. Kendall, Palestine, Tex. Nut-lock. No. 930,172; Aug. 3; Sp. p. 1160; Gaz. vol. 145; p. 183.
- Garnet, G. H., Allentown, Pa. Can-opener. No. 919,151; Apr. 20; Sp. p. 4523; Gaz. vol. 141; p. 790.
- Garnett, L. E., assignor of one-half to J. L. Barnes, Chanute, Kans. Railway-signal. No. 940,800; Nov. 23; Sp. p. 5237; Gaz. vol. 148; p. 889.
- Garnett, W. C., Tiffin, Iowa. Hog-stanchion. No. 932,384; Aug. 24; Sp. p. 5806; Gaz. vol. 145; p. 992.
- Garnett, W. H., *et al.* (See Simmons, W. M., assignor.)
- Garnier, L., Clermont-Ferrand, France. Vehicle-wheel. No. 939,681; Nov. 9; Sp. p. 2726; Gaz. vol. 148; p. 450.
- Garon, G. E., Manchester, N. H. Tire construction. No. 937,787; Oct. 26; Sp. p. 4572; Gaz. vol. 147; p. 792.
- Garrabratt, D. W., and J. L. Burdge, Trenton, N. J. Rotary engine. No. 935,489; Sept. 28; Sp. p. 5034; Gaz. vol. 146; p. 890.
- Garrard, J., Muncie, Ind. Fish-line float. No. 928,439; July 20; Sp. p. 3621; Gaz. vol. 144; p. 639.
- Garrard, L. R., Sheridan, Mo. Rail chair and fastening. No. 922,271; May 18; Sp. p. 4483; Gaz. vol. 142; p. 778.
- Garratt, H. W., Stamford Hill, England. Locomotive-engine. No. 912,303; Feb. 16; Sp. p. 2633; Gaz. vol. 139; p. 484.
- Garretson-Anthony Company. (See Garretson and Anthony, assignors.)
- Garretson, D. I., New York, N. Y. Fire-extinguisher. No. 926,481; June 29; Sp. p. 7065; Gaz. vol. 143; p. 1246.
- Garretson, D. I., New York, N. Y., and M. O. Anthony, Englewood, N. J., assignors to Garretson-Anthony Company. Electromagnetic relay. No. 939,409; Nov. 9; Sp. p. 2151; Gaz. vol. 148; p. 357.
- Garretson, E., assignor of three thirty-seconds to W. P. Mashinter, three thirty-seconds to C. S. Sidway, three thirty-seconds to J. D. Robertson, and three thirty-seconds to W. E. Robertson, Buffalo, N. Y. Electric-current rectifier. No. 929,582; July 27; Sp. p. 5927; Gaz. vol. 144; p. 1042.
- Garretson, E. (See Kindleberger and Garretson.)
- Garretson, G., San Diego, Cal. Drill-chuck. No. 923,041; May 25; Sp. p. 6065; Gaz. vol. 142; p. 1056.
- Garretson, T. B., Oskaloosa, Iowa. Dish-drainer. No. 934,721; Sept. 21; Sp. p. 3518; Gaz. vol. 146; p. 613.
- Garrett, C. A., Philadelphia, Pa., assignor of one-half to Datz Manufacturing Company. Paper-box-covering machine. No. 917,044; Apr. 6; Sp. p. 166; Gaz. vol. 141; p. 32.
- Garrett-Cromwell Engineering Company. (See Cromwell and Lash, assignors.)
- Garrett-Cromwell Engineering Company. (See Last, H. W., assignor.)
- Garrett-Cromwell Engineering Company. (See Seaver, J. W., assignor.)
- Garrett, F. W., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Commutator-brush. No. 930,067; Aug. 3; Sp. p. 936; Gaz. vol. 145; p. 150.
- Garrett, F. W., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Brush-holder for dynamo-electric machines; No. 930,068; Aug. 3; Sp. p. 936; Gaz. vol. 145; p. 151.
- Garrett, J. C., San Francisco, Cal. Pneumatic clutch. No. 927,229; July 6; Sp. p. 1092; Gaz. vol. 144; p. 177.
- Garrett, J. J., Lake City, assignor of one-half to J. P. and J. P. Taber, Bay, Ark. Automatic level. No. 924,340; June 8; Sp. p. 2721; Gaz. vol. 143; p. 443.
- Garrett, J. W., Elk City, Okla. Cotton-chopper. No. 913,373; Feb. 23; Sp. p. 4845; Gaz. vol. 139; p. 868.
- Garrett, J. W., Elk City, Okla. Caster-wheel for cotton-choppers. No. 935,598; Sept. 28; Sp. p. 5289; Gaz. vol. 146; p. 928.
- Garrett, M. A., Chicago, Ill. Draft and buffing gear for cars. No. 926,110; June 29; Sp. p. 6330; Gaz. vol. 143; p. 1124.
- Garrett, M. A., Chicago, Ill. Draw-bar and extension-shank for cars. No. 931,193; Aug. 17; Sp. p. 3315; Gaz. vol. 145; p. 577.
- Garrett, M. E. (See Warren, E. F., assignor.)
- Garrett, T. A., Reigate, and W. Lucas, Crouch End, England. Apparatus for receiving submarine sounds. No. 942,897; Dec. 14; Sp. p. 1838; Gaz. vol. 149; p. 324.
- Garrette, J. E., Indianapolis, Ind., assignor of one-fourth to himself, one-half to J. N. Ramsey, and one-fourth to J. Kromme, Cincinnati, Ohio. Making butter compound. No. 909,781; Jan. 12; Sp. p. 2707; Gaz. vol. 138; p. 479.
- Garriety, W. (See Harris, W. H., assignor.)
- Garris, T. B., Hart, Mich. Noise-preventer for covers of receptacles. No. 908,852; Jan. 5; Sp. p. 872; Gaz. vol. 138; p. 138.
- Garrison, L. B., Artesia, N. Mex. Race-strap. No. 939,902; Nov. 9; Sp. p. 3189; Gaz. vol. 148; p. 526.
- Garrison, P. J., Three Rivers, Mich. Car-wheel. No. 908,659; Jan. 5; Sp. p. 498; Gaz. vol. 138; p. 77.
- Garrison, R., and G. W. Whipple, Cherryvale, Kans. Machine for molding clay condensers for retorts. No. 915,848; Mar. 23; Sp. p. 4521; Gaz. vol. 140; p. 803.
- Garrison, R. W. (See Derrick and Garrison.)
- Garrity, G. F., Soranton, Pa. Railroad-spike. No. 915,586; Mar. 16; Sp. p. 3981; Gaz. vol. 140; p. 687.
- Garrod, F. J., Winnipeg, Manitoba, Canada. Ticket-holder. No. 922,272; May 18; Sp. p. 4485; Gaz. vol. 142; p. 778.



*Alphabetical list of patentees—Continued.*

- Garside, E., assignor to Engineering Instruments Limited, Darlington, England. Starting-switch forelectric motors. No. 942,960; Dec. 14; Sp. p. 1995; Gaz. vol. 149; p. 346.
- Garst, D., Waterloo, Iowa. Manure-spreader. No. 932,461; Aug. 31; Sp. p. 5973; Gaz. vol. 145; p. 1040.
- Garst, D., Waterloo, Iowa. Manure-spreader. No. 941,513; Nov. 30; Sp. p. 6763; Gaz. vol. 148; p. 1146.
- Garst, S. H., Moline, Ill. Vehicle-wheel. No. 915,093; Mar. 16; Sp. p. 2967; Gaz. vol. 140; p. 525.
- Garton, W. R., Brooklyn, N. Y. Grounding device or terminal for fine-wires. No. 938,471; Nov. 2; Sp. p. 35; Gaz. vol. 148; p. 8.
- Gartrell, J., Washington, D. C. Dental appliance. No. 927,850; July 13; Sp. p. 2397; Gaz. vol. 144; p. 410.
- Gartzweiler, J., Leipzig-Gohlis, Germany. Tension-pulley. No. 932,117; Aug. 24; Sp. p. 5304; Gaz. vol. 145; p. 904.
- Garven, E., and N. Osborn, Coulterville, Ill. Folding crate. No. 944,028; Dec. 21; Sp. p. 4298; Gaz. vol. 149; p. 740.
- Garver, C., Fort Wayne, assignor of one-third to O. R. Yerks, New Haven, Ind. Automatic wagon-brake. No. 944,961; Dec. 28; Sp. p. 6297; Gaz. vol. 149; p. 1082.
- Garver, F. (See Brackett and Garver.)
- Garver, F., assignor to Huber Manufacturing Company, Marion, Ohio. Garbanzon-threshing machine. No. 942,063; Dec. 7; Sp. p. 45; Gaz. vol. 149; p. 9.
- Garver, H. H., and G. F. Bissell, Grant City, Mo. Foot-power welding device. No. 942,444; Dec. 7; Sp. p. 858; Gaz. vol. 149; p. 140.
- Garvey, C. A., (See Garvey, E. A. and C. A.)
- Garvey, E. A. and C. A., St. Louis, Mo., assignors to American Auto Appliance Company. Shock-absorber for vehicles. No. 923,162; June 1; Sp. p. 90; Gaz. vol. 143; p. 15.
- Garvie, J., Cleveland, Transvaal. Valve. No. 943,824; Dec. 21; Sp. p. 3850; Gaz. vol. 149; p. 670.
- Garvin, G. K., and E. J. McClellan, New York, N. Y. Speed-change gearing. No. 922,880; May 25; Sp. p. 5761; Gaz. vol. 142; p. 1005.
- Garvin Machine Company. (See McClellan, E. J., assignor.)
- Garwood, B. V., Worthington, Ky. Onion-seed planter. No. 936,883; Oct. 12; Sp. p. 2672; Gaz. vol. 147; p. 445.
- Garwood, G. B., Homer, assignor to G. Radebaugh, Urbana, Ill. Gate. No. 935,650; Oct. 5; Sp. p. 47; Gaz. vol. 147; p. 10.
- Gash, J. L., and S. L. McDavitt, Elmer, Mo. Continuous lap-joint and nut-lock. No. 909,580; Jan. 12; Sp. p. 2317; Gaz. vol. 138; p. 411.
- Gaskill, J. L., Fort Worth, assignor of two-thirds to J. G. Wessendorf and G. E. Irwin, Handley, Tex. Releasing device for burial-vault cores. No. 909,394; Jan. 12; Sp. p. 1944; Gaz. vol. 138; p. 347.
- Gaskill, W. H., Wilson, N. Y. Mechanical movement. No. 912,108; Feb. 9; Sp. p. 2222; Gaz. vol. 139; p. 384.
- Gaskin, H. B., Blountstown, Fla. Hay-press. No. 941,243; Nov. 23; Sp. p. 6177; Gaz. vol. 148; p. 1036.
- Gass, W. L., and H. Jackson, New York, N. Y. Mechanical movement. No. 921,971; May 18; Sp. p. 3878; Gaz. vol. 142; p. 679.
- Gass, W. W., Mayodan, N. C. Barber's register. No. 914,265; Mar. 2; Sp. p. 1301; Gaz. vol. 140; p. 202.
- Gast, J. M. (See Bates, Knight, and Gast.)
- Gaston, C. W., Fresno, Cal. Electric therapeutic instrument. No. 932,775; Aug. 31; Sp. p. 6681; Gaz. vol. 145; p. 1147.
- Gaston, J. E., Cochran, Pa. Corn-grader. No. 943,869; Dec. 21; Sp. p. 3943; Gaz. vol. 149; p. 686.
- Gaston, L. P., Somerville, N. J. Dump-car. No. 925,087; June 15; Sp. p. 4254; Gaz. vol. 143; p. 724.
- Gaston, L. P., Somerville, N. J. Brake for dump-cars. No. 942,320; Dec. 7; Sp. p. 624; Gaz. vol. 149; p. 99.
- Gaston, W. D., Traer, Iowa. Cultivator. No. 923,168; June 1; Sp. p. 91; Gaz. vol. 143; p. 15.
- Gaston, W. E., Waterbury, Conn. Bottle-stopper. No. 940,926; Nov. 23; Sp. p. 5481; Gaz. vol. 148; p. 929.
- Gaszper, J., Cleveland, Ohio. Block-signaling system for railways. No. 942,255; Dec. 7; Sp. p. 487; Gaz. vol. 149; p. 76.
- Gately, J. H., Bellow, Falls, Vt. Clamp-collar. No. 911,142; Feb. 2; Sp. p. 193; Gaz. vol. 139; p. 37.
- Gately, J. H., assignor of one-half to J. P. Riley, Bellow Falls, Vt. Winding-core. No. 911,006; Jan. 26; Sp. p. 5234; Gaz. vol. 138; p. 943.
- Gateman, W., Manitowoc, Wis. Sickle-guard for mowers or harvesters. No. 908,555; Jan. 5; Sp. p. 260; Gaz. vol. 138; p. 44.
- Gates, A., Yuma, Ariz. Ter. Washing-machine. No. 918,995; Apr. 20; Sp. p. 4244; Gaz. vol. 141; p. 741.
- Gates, C. G., Marlow, Okla. Rail-splice. No. 928,747; July 20; Sp. p. 4243; Gaz. vol. 144; p. 739.
- Gates, C. W. (See Gill and Gates.)
- Gates, D. M., Cross Timbers, Mo. Grubbing and root-breaking machine. No. 922,572; May 25; Sp. p. 5099; Gaz. vol. 142; p. 905.
- Gates, G., Alameda, Cal. Endless traveling belt with standing sides. No. 927,648; July 13; Sp. p. 1969; Gaz. vol. 144; p. 344.
- Gates, H. E., Newark, N. J. Spring fabric. No. 941,447; Nov. 30; Sp. p. 6631; Gaz. vol. 148; p. 1124.
- Gates, J. P. (See Ross and Gates.)
- Gates, J. P. (See Ross, Stevens, and Gates.)
- Gates, J. W., Los Angeles, Cal. Spring-fork for wheeled vehicles. No. 940,245; Nov. 16; Sp. p. 3976; Gaz. vol. 148; p. 676.
- Gates, L. A., assignor of one-half to G. M. Sparks, Oroville, Cal. Air-compressor. No. 916,857; Mar. 30; Sp. p. 6455; Gaz. vol. 140; p. 1153.
- Gates Safety Signal Board Attachment Company. (See Gates, W. T., assignor.)
- Gates, W. H., Norwich, Conn. Repeating firearm. No. 934,158; Sept. 14; Sp. p. 2433; Gaz. vol. 146; p. 400.
- Gates, W. H., assignor to Hopkins & Allen Arms Company, Norwich, Conn. Safety device for firearms. No. 917,045; Apr. 6; Sp. p. 171; Gaz. vol. 141; p. 32.
- Gates, W. H., assignor to Hopkins & Allen Arms Company, Norwich, Conn. Safety mechanism for firearms. No. 934,065; Sept. 14; Sp. p. 2222; Gaz. vol. 146; p. 367.
- Gates, W. S. (See Dow and Gates.)
- Gates, W. T., assignor to Gates Safety Signal Board Attachment Company, Aubrey, Tex. Train-order signal. No. 922,273; May 18; Sp. p. 4486; Gaz. vol. 142; p. 778.
- Gathmann, E., Bethlehem, Pa. Ingot-mold. No. 921,972; May 18; Sp. p. 3880; Gaz. vol. 142; p. 679.
- Gathmann, E., Bethlehem, Pa. Projectile. No. 922,573; May 25; Sp. p. 5100; Gaz. vol. 142; p. 905.
- Gathmann, E., Bethlehem, Pa., assignor to Gathmann Engineering Company, New York, N. Y. Ingot-mold. No. 940,386; Nov. 16; Sp. p. 4333; Gaz. vol. 148; p. 726.
- Gathmann, E. A., Bethlehem, assignor to Bethlehem Steel Company, South Bethlehem, Pa. Hydraulic jack. No. 941,870; Nov. 30; Sp. p. 7535; Gaz. vol. 148; p. 1267.
- Gathmann Engineering Company. (See Gathmann, E., assignor.)
- Gatling, M. D., Mapleton, N. C. Fertilizer-distributor. No. 909,997; Jan. 19; Sp. p. 3158; Gaz. vol. 138; p. 583.
- Gaube, J. and R., Dresden, Germany. Toy water-mill. No. 923,640; June 1; Sp. p. 1176; Gaz. vol. 143; p. 181.
- Gaube, R. (See Gaube, J. and R.)
- Gaudet, A., Paris, France. Pressure-regulating device for gas and steam. No. 915,587; Mar. 16; Sp. p. 3982; Gaz. vol. 140; p. 688.
- Gaudet, P. B., Chelsea, assignor to J. M. Pineau, Boston, Mass. Pneumatic life-jacket. No. 931,009; Aug. 10; Sp. p. 2893; Gaz. vol. 145; p. 486.
- Gaudron, E. N., Hasbrouck Heights, N. J., assignor of one-half to J. W. C. Van der Harst, New York, N. Y. Filling device. No. 932,268; Aug. 24; Sp. p. 5595; Gaz. vol. 145; p. 954.
- Gaul, A., Jr., Ridgefield, N. J. Filing-cabinet. No. 921,822; May 18; Sp. p. 3565; Gaz. vol. 142; p. 631.
- Gaulin, A. (See Gaulin, W. and A.)
- Gaulin, W. and A., St. Césaire, Quebec, Canada. Evaporating apparatus. No. 927,520; July 13; Sp. p. 1685; Gaz. vol. 144; p. 300.
- Gaumer, A. I., Salt Lake City, Utah. Railway-rail-joint. No. 932,979; Aug. 31; Sp. p. 7045; Gaz. vol. 145; p. 1211.
- Gaumer, A. T., Indianapolis, Ind., assignor to Hamilton Manufacturing Company, Two Rivers, Wis. Type-case bracket. No. 912,462; Feb. 16; Sp. p. 2966; Gaz. vol. 139; p. 537.
- Gaunt, S. C., assignor to Barnhart Bros. & Spindler, Chicago, Ill. Type-mold. No. 922,129; May 18; Sp. p. 4179; Gaz. vol. 142; p. 731.
- Gauntlett, F. W., assignor of one-half to Sherardizing Syndicate Limited, London, England. Depositing metals upon and in combination with metals or metal articles. No. 910,369; Jan. 19; Sp. p. 3954; Gaz. vol. 138; p. 711.
- Gaus, F. J., New York, assignor to William Vogel and Brothers, Brooklyn, N. Y. Disinfectant. No. 916,143; Mar. 23; Sp. p. 5074; Gaz. vol. 140; p. 898.
- Gause, C. O., New Sharon, Iowa. Surgical-needle holder. No. 919,152; Apr. 20; Sp. p. 4524; Gaz. vol. 141; p. 790.
- Gauthier, F. (See Hennessey, W. A., assignor.)
- Gauthier, G., Marseille, France. Apparatus for disinfection and the extermination of vermin. No. 908,853; Jan. 5; Sp. p. 873; Gaz. vol. 138; p. 138.
- Gauthier, P., Lowell, assignor to W. F. Draper, Hopedale, Mass. Shuttle. No. 944,855; Dec. 28; Sp. p. 6105; Gaz. vol. 149; p. 1049.
- Gautier, C. M., Putney, London, England. Pneumatic tire. No. 941,871; Nov. 30; Sp. p. 7537; Gaz. vol. 148; p. 1268.
- Gautsche, S., Metamora, Ill. Expanding device for pump-pistons. No. 919,845; Apr. 27; Sp. p. 6198; Gaz. vol. 141; p. 1058.
- Gautschi, A., Gontenschwil, Switzerland. Manufacture of aluminum-foil. No. 917,285; Apr. 6; Sp. p. 670; Gaz. vol. 141; p. 114.
- Gautschi, H., Toledo, Ohio. Pipe and rod threader. No. 942,200; Dec. 7; Sp. p. 371; Gaz. vol. 149; p. 56.
- Gavin, J. H. (See Hoelscher and Gavin.)
- Gavin, J. H., assignor to L. Wolff Manufacturing Company, Chicago, Ill. Lavatory. No. 925,325; June 15; Sp. p. 4697; Gaz. vol. 143; p. 802.
- Gavin, J. H., and H. M. Hoelscher, assignors to L. Wolff Manufacturing Company, Chicago, Ill. Adjustable connection for slop-sink traps to slop-sinks. No. 925,324; June 15; Sp. p. 4696; Gaz. vol. 143; p. 801.
- Gaw, G. H., Texico, Ill. Nest-trap. No. 923,829; June 8; Sp. p. 1659; Gaz. vol. 143; p. 275.
- Gawler, H. C., assignor to C. F. Pease Blue Print Machinery and Supply Company, Chicago, Ill. Blue-print washer. No. 933,640; Sept. 7; Sp. p. 1378; Gaz. vol. 146; p. 206.

*Alphabetical list of patentees—Continued.*

- Gawler, H. C., assignor to C. F. Pease Blue Print Machinery and Supply Company, Chicago, Ill. Apparatus for developing and washing prints. No. 935,148; Sept. 28; Sp. p. 4378; Gaz. vol. 146; p. 781.
- Gay, A. S., Binghamton, N. Y. Horseshoe-calk. No. 915,285; Mar. 16; Sp. p. 3367; Gaz. vol. 140; p. 588.
- Gay, C. (See Hendrick, W., assignor.)
- Gay, C. M., Los Angeles, Cal. Refrigerating apparatus. No. 940,590; Nov. 16; Sp. p. 4759; Gaz. vol. 148; p. 793.
- Gay, F., Plainville, Kans. Polishing compound. No. 916,294; Mar. 23; Sp. p. 5345; Gaz. vol. 140; p. 947.
- Gay, J. H., and W. D. Quigley, Newark, N. J. Spring-roll for leather-splitting machines. No. 924,900; June 15; Sp. p. 3880; Gaz. vol. 143; p. 661.
- Gay, L. E., Harrison, Mich. Sand-band for vehicles. No. 920,897; May 4; Sp. p. 1646; Gaz. vol. 142; p. 263.
- Gay, W. H., Heppner, Oreg. Disk-cleaner. No. 924,053; June 8; Sp. p. 2073; Gaz. vol. 143; p. 345.
- Gayle, G. W., Gem, Kans. Wagon. No. 940,456; Nov. 16; Sp. p. 4479; Gaz. vol. 148; p. 748.
- Gayley, J., *et al.*, trustees. (See Jenkins, C. F., assignor.)
- Gayley, J., New York, N. Y. Operating blast-furnaces and converters. No. 935,628; Sept. 28; Sp. p. 5347; Gaz. vol. 146; p. 938.
- Gaylor, J. B. (See Robinson and Gaylor.)
- Gaylord, J. E., Bridgeport, Conn. Valve-lifter for explosive-engines. No. 908,556; Jan. 5; Sp. p. 261; Gaz. vol. 138; p. 44.
- Gaynor, J., New York, N. Y. Display apparatus. No. 938,571; Nov. 2; Sp. p. 295; Gaz. vol. 148; p. 43.
- Gaynor, J. C., assignor of one-half to A. C. Kluge, Pompton, N. J. Let-off mechanism for narrow-ware looms. No. 943,741; Dec. 21; Sp. p. 3689; Gaz. vol. 149; p. 641.
- Gays, G., Los Angeles, Cal. Boat propulsion. No. 921,823; May 18; Sp. p. 3566; Gaz. vol. 142; p. 632.
- Gazetti, J., *et al.* (See Waid, W. H., assignor.)
- Gehart, S. O., Durango, Colo. Hem guide and measuring device. No. 929,083; July 27; Sp. p. 4928; Gaz. vol. 144; p. 878.
- Gearhart, J. E., Clearfield, Pa. Match-safe. No. 940,387; Nov. 16; Sp. p. 4335; Gaz. vol. 148; p. 726.
- Gearhart, L., Braddock, Pa. Gas-mantle sewing-machine. No. 919,846; Apr. 27; Sp. p. 6199; Gaz. vol. 141; p. 1058.
- Gearing, C. M., Bristol, Conn. Lockwork for striking-clocks. No. 908,767; Jan. 5; Sp. p. 715; Gaz. vol. 138; p. 111.
- Geary, P., New York, N. Y. Clutch. No. 913,279; Feb. 23; Sp. p. 4652; Gaz. vol. 139; p. 834.
- Geary, W. T., Chicago, Ill. Printing attachment for paper-roll holders. No. 937,064; Oct. 19; Sp. p. 3040; Gaz. vol. 147; p. 534.
- Gebhardt, A. F., and W. S. Hutchings, Jermyn, Pa. Powder-drier. No. 937,591; Oct. 19; Sp. p. 4164; Gaz. vol. 147; p. 709.
- Gebhardt, E., Cincinnati, Ohio. Condiment-shaker. No. 942,138; Dec. 7; Sp. p. 248; Gaz. vol. 149; p. 37.
- Gebhardt, E. F., Easton, Pa. Valve for hot-water heating systems. No. 917,579; Apr. 6; Sp. p. 1205; Gaz. vol. 141; p. 211.
- Gebhardt, F., Alliance, Ohio, assignor of one-half to G. A. Woodman, Chicago, Ill. Car-truck. No. 927,962; July 13; Sp. p. 2634; Gaz. vol. 144; p. 443.
- Gebhardt, H. J., Chicago, Ill. Steam and oil separator. No. 911,969; Feb. 9; Sp. p. 1932; Gaz. vol. 139; p. 339.
- Gebhart, H., *et al.*, administrators. (See Kinnard, W. M.)
- Gebhart, J. C., Memphis, Tenn. Laundry-marking machine. No. 934,300; Sept. 14; Sp. p. 2692; Gaz. vol. 146; p. 447.
- Gebr. Böhrer & Co., Aktiengesellschaft. (See Maudry, J., assignor.)
- Gebr. Siemens & Co. (See Viertel, H., assignor.)
- Geddes, F. G. (See Douglas, J., assignor.)
- Geddes, W. H., Muskingum, Ohio. Light-protector. No. 931,407; Aug. 17; Sp. p. 3777; Gaz. vol. 145; p. 652.
- Gedel, C. H., Marietta, Ohio. Window-fastener. No. 922,414; May 18; Sp. p. 4755; Gaz. vol. 142; p. 824.
- Gedde, J. F., Wyoming, Ohio. Sifting and mixing machine. No. 934,603; Sept. 21; Sp. p. 3281; Gaz. vol. 146; p. 571.
- Gedney, C. B., St. Paul, Minn. Cabbage-coring machine. No. 928,748; July 20; Sp. p. 4245; Gaz. vol. 144; p. 739.
- Gee, A., Philadelphia, assignor of one-half to T. E. Brown, Wyncote, Pa. Manufacture of fashioned hosiery. No. 924,605; June 8; Sp. p. 3245; Gaz. vol. 143; p. 529.
- Gee, J. H., Palestine, Tex. Ash-pan for locomotives. No. 943,777; Dec. 21; Sp. p. 3758; Gaz. vol. 149; p. 654.
- Gee, N. E. (See Berryman and Turner, assignors.)
- Geer, C. A., Worcester, Mass., assignor to Whitaker Reed Company. Apparatus for manufacturing lease-reeds. No. 930,659; Aug. 10; Sp. p. 2133; Gaz. vol. 145; p. 377.
- Ger, G., Richmond, Va. Steering-gear for automobiles. No. 911,489; Feb. 2; Sp. p. 874; Gaz. vol. 139; p. 155.
- Geffert, C. J., *et al.* (See Ruehs, C. L., assignor.)
- Gegenheimer, C. F., Lawrence, Mass. Cloth-feeding attachment for tentering-machines. No. 911,490; Feb. 2; Sp. p. 876; Gaz. vol. 139; p. 155.
- Gehman, H., Philadelphia, Pa. Non-refillable bottle. No. 912,109; Feb. 9; Sp. p. 2225; Gaz. vol. 139; p. 385.
- Gehme, C. A., Chicago, Ill. Nail-setter. No. 924,054; June 8; Sp. p. 2074; Gaz. vol. 143; p. 345.
- Gehret, C. A., Bridgeport, Pa. Attachment for securing grilles or screens to window-frames. No. 915,588; Mar. 16; Sp. p. 3983; Gaz. vol. 140; p. 688.
- Gehring, J. (See Conrad and Gehring.)
- Gehring, J., and R. D. Conrad; said Gehring assignor, by mesne assignments, to Winner Natural Gas Burner Company, Pittsburg, Pa. Burner. No. 943,927; Dec. 21; Sp. p. 4079; Gaz. vol. 149; p. 706.
- Gehring, P. A., Kenosha, Wis. Tongue-hounds. No. 918,035; Apr. 13; Sp. p. 2193; Gaz. vol. 141; p. 393.
- Gehring, P. A., assignor of one-third to J. C. Picker and one-third to L. F. Picker, Kenosha, Wis. Tongue-hound. No. 934,518; Sept. 21; Sp. p. 3114; Gaz. vol. 146; p. 543.
- Gehring, G. H., Elk Mound, Wis. Husking-roller. No. 911,390; Feb. 2; Sp. p. 718; Gaz. vol. 139; p. 124.
- Gehrman, J. C., Frances, Wash. Raker gage and jointer. No. 938,472; Nov. 2; Sp. p. 37; Gaz. vol. 148; p. 9.
- Gehrmann, F. R. C. (See Gehrmann, L. J., Jr., and F. R. C.)
- Gehrmann, J. J., Jr., and F. R. C., Ewing, Neb. Corn-header. No. 911,302; Feb. 2; Sp. p. 552; Gaz. vol. 139; p. 94.
- Geig, M., Columbia, Pa. Cooking utensil. No. 927,521; July 13; Sp. p. 1688; Gaz. vol. 144; p. 301.
- Geigel, S., Carbondale, Colo. Machine for picking potatoes. No. 909,581; Jan. 12; Sp. p. 2519; Gaz. vol. 138; p. 411.
- Geiger, A., Rochester, N. Y. Gruating-machine. No. 921,824; May 18; Sp. p. 3569; Gaz. vol. 142; p. 632.
- Geiger, C. E., *et al.* (See Koop, W. E., assignor.)
- Geiger, C. E., assignor of one-third to himself, one-third to W. E. Koop, and one-third to G. W. Fiske, Louisville, Ky. Drier. No. 940,144; Nov. 16; Sp. p. 3760; Gaz. vol. 148; p. 641.
- Geiger, F. J., *et al.* (See Haile, L. T., assignor.)
- Geipel, F. A., Fleissen, Austria-Hungary. Machine for the treatment of skins and the like. No. 941,317; Nov. 23; Sp. p. 6330; Gaz. vol. 148; p. 1058.
- Geise, E. H., Newton, Iowa. Seed-separating machine. No. 928,120; July 13; Sp. p. 2918; Gaz. vol. 144; p. 499.
- Geisenhöner, H., Schenectady, N. Y., assignor to General Electric Company. Circuit-controlling device. No. 910,661; Jan. 26; Sp. p. 4580; Gaz. vol. 138; p. 833.
- Geisenhöner, H., Schenectady, N. Y., assignor to General Electric Company. Resistance material. No. 920,861; May 4; Sp. p. 1556; Gaz. vol. 142; p. 251.
- Geiser Manufacturing Company. (See Beard, D. S., assignor.)
- Geiser Manufacturing Company. (See Clymans, E. G., assignor.)
- Geiser, W., Neodesha, Kans. Making piston-packing rings. No. 938,420; Oct. 26; Sp. p. 5936; Gaz. vol. 147; p. 1006.
- Geisking, C., Harrisburg, Pa. Device for coupling, uncoupling, and manipulating air-brake hose. No. 916,858; Mar. 30; Sp. p. 6457; Gaz. vol. 140; p. 1153.
- Geissenhafer, F. W., Freehold, N. J., and M. S. Cumner, New York, N. Y. Printing-press. No. 921,536; May 11; Sp. p. 2954; Gaz. vol. 142; p. 508.
- Geissinger, H. G., West Orange, N. J., assignor to Geissinger Regulator Company. Thermostat. No. 939,957; Nov. 9; Sp. p. 3312; Gaz. vol. 148; p. 546.
- Geissinger Regulator Company. (See Geissinger, H. G., assignor.)
- Geissler, F., Kottbus, and B. Wagner, Görlitz, Germany. Apparatus for dyeing yarn. No. 940,868; Nov. 23; Sp. p. 5373; Gaz. vol. 148; p. 910.
- Geissler, H. V., West Hoboken, N. J. Safety-pocket. No. 926,402; June 29; Sp. p. 6925; Gaz. vol. 143; p. 1220.
- Geist, E. H., Cologne, Germany. Controlling device for electric motors. No. 934,301; Sept. 14; Sp. p. 2698; Gaz. vol. 146; p. 448.
- Geist, W. F. (See Mowbray and Geist.)
- Geisz, C. A. (See Schreiber and Geisz.)
- Gelabert, W. P., Fulton, Mo. Buckle. No. 943,870; Dec. 21; Sp. p. 3946; Gaz. vol. 149; p. 686.
- Gelbaugh, W. H., Tacoma, Wash. Hinging-gage. No. 940,001; Nov. 16; Sp. p. 3421; Gaz. vol. 148; p. 589.
- Geldermann, H., Gross-Lichterfelde-Ost, near Berlin, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Mordant-dyeing *azo* dye. No. 943,536; Dec. 14; Sp. p. 3226; Gaz. vol. 149; p. 543.
- Gelpke, V., Lucerne, Switzerland, and P. Kugel, Dusseldorf, Germany. Hydraulic regulator-valve. No. 929,206; July 27; Sp. p. 5158; Gaz. vol. 144; p. 919.
- Gelser, W. D., Hunt, N. Y. Automatic safety device. No. 922,881; May 25; Sp. p. 5764; Gaz. vol. 142; p. 1005.
- Gelstharf, F., Ford City, Pa. Flame-indicator for furnaces. No. 931,594; Aug. 17; Sp. p. 4119; Gaz. vol. 145; p. 709.



*Alphabetical list of patentees—Continued.*

- Geltz, A. H. (See Hosack, Geltz, and McBane.)  
 Gem City Stove Company. (See Cope and Gummer, assignors.)  
 Gennell, A. H., Montezuma, N. C. Curling-iron. No. 917,580; Apr. 6; Sp. p. 1209; Gaz. vol. 141; p. 212.  
 Gennmer, L., Aurora, Ill. Railway. No. 916,295; Mar. 23; Sp. p. 5345; Gaz. vol. 140; p. 947.  
 Gennmill, J. I., Cleveland, Ohio. Automatic multiple-record phonograph. No. 925,430; June 15; Sp. p. 4891; Gaz. vol. 143; p. 835.  
 Gens, J. F., London, England. Lay figure and skirt-stand. No. 943,069; Dec. 14; Sp. p. 2263; Gaz. vol. 149; p. 384.  
 Gen, A., Bunkie, La. Blind-hinge. No. 919,154; Apr. 20; Sp. p. 4526; Gaz. vol. 141; p. 791.  
 Genck, R., Barmen, Germany. Stick-umbrella. No. 919,567; Apr. 27; Sp. p. 5613; Gaz. vol. 141; p. 964.  
 Gendron, J. A., Nashua, N. H. Shuttle-motion for looms. No. 928,440; July 20; Sp. p. 3623; Gaz. vol. 144; p. 639.  
 Gendron, J. A., Nashua, N. H. Reed-actuating mechanism for looms. No. 928,911; July 20; Sp. p. 4576; Gaz. vol. 144; p. 796.  
 General Acoustic Company. (See Germer, W. F. H., assignor.)  
 General Acoustic Company. (See Turner and Hoff, assignors.)  
 General Chemical Company. (See Bishop, H. B., assignor.)  
 General Chemical Company. (See Eschellmann and Harnuth, assignors.)  
 General Chemical Company. (See Gillean, R. H., assignor.)  
 General Chemical Company. (See Herreshoff, J. B. F., assignor.)  
 General Chemical Company. (See Strickler, E. H., assignor.)  
 General Electric Company. (See Abbott, W. G., Jr., assignor.)  
 General Electric Company. (See Ahlquist, K., assignor.)  
 General Electric Company. (See Alexanderson, E. F. W., assignor.)  
 General Electric Company. (See Anderson, E. H., assignor.)  
 General Electric Company. (See Anderson, J. R., assignor.)  
 General Electric Company. (See Andrews, W. S., assignor.)  
 General Electric Company. (See Andrews, W. S., assignor.) (Reissue.)  
 General Electric Company. (See Armstrong, A. H., assignor.)  
 General Electric Company. (See Arsem, W. C., assignor.)  
 General Electric Company. (See Baldwin, H. S., assignor.)  
 General Electric Company. (See Barker, R. E., assignor.)  
 General Electric Company. (See Barnholdt, H. L., assignor.)  
 General Electric Company. (See Bassett, N. C., assignor.)  
 General Electric Company. (See Batchelder, A. F., assignor.)  
 General Electric Company. (See Beckwith, E. P., assignor.)  
 General Electric Company. (See Berg, E. J., assignor.)  
 General Electric Company. (See Bergman, S. R., assignor.)  
 General Electric Company. (See Berry, E. R., assignor.)  
 General Electric Company. (See Bliss, E. F., assignor.)  
 General Electric Company. (See Bradley, C. S., assignor.)  
 General Electric Company. (See Bradway, C., assignor.)  
 General Electric Company. (See Bralley, W. S., assignor.)  
 General Electric Company. (See Buck and Hewlett, assignors.)  
 General Electric Company. (See Byrne, J. R., assignor.)  
 General Electric Company. (See Callan, J. G., assignor.)  
 General Electric Company. (See Callan and Johnson, assignors.)  
 General Electric Company. (See Cannon, Young, and Bateholts, assignors.)  
 General Electric Company. (See Case, F. E., assignor.)  
 General Electric Company. (See Chapman, L. S., assignor.)  
 General Electric Company. (See Chesney and Wilson, assignors.)  
 General Electric Company. (See Clark, A. G., assignor.)  
 General Electric Company. (See Clark, H. H., assignor.)  
 General Electric Company. (See Clark, J. H., assignor.)  
 General Electric Company. (See Coolidge, W. D., assignor.)  
 General Electric Company. (See Corey, F. B., assignor.)  
 General Electric Company. (See Creighton, E. E. F., assignor.)  
 General Electric Company. (See Cubitt, A. S., assignor.)  
 General Electric Company. (See Curtis, C. G., assignor.)  
 General Electric Company. (See Danielson, W. A., assignor.)  
 General Electric Company. (See Darke, J. M., assignor.)  
 General Electric Company. (See Davis, A. G., assignor.)  
 General Electric Company. (See Dawson, W. F., assignor.)  
 General Electric Company. (See Day, M. W., assignor.)  
 General Electric Company. (See De Reamer, F. C., assignor.)  
 General Electric Company. (See Delhomme, J. E., assignor.)  
 General Electric Company. (See Dempster, J. T., assignor.)  
 General Electric Company. (See Dempster, J. T. H., assignor.)  
 General Electric Company. (See Dempster, L. E., assignor.)  
 General Electric Company. (See Dodge, A. R., assignor.)  
 General Electric Company. (See Dolley, H. A., assignor.)  
 General Electric Company. (See Dorgeloh, G. H., assignor.)  
 General Electric Company. (See Eichberg, F., assignor.)  
 General Electric Company. (See Ellis, A. L. R., assignor.)  
 General Electric Company. (See Emmet, W. L. R., assignor.)  
 General Electric Company. (See Emmet and Hewlett, assignors.)  
 General Electric Company. (See Erben, H. F. T., assignor.)  
 General Electric Company. (See Eveleth, C. E., assignor.)  
 General Electric Company. (See Everest, A. R., assignor.)  
 General Electric Company. (See Fellenberg, W., assignor.)  
 General Electric Company. (See Ferguson, S., assignor.)  
 General Electric Company. (See Fish, W. C., assignor.)  
 General Electric Company. (See Fish and Fleming, assignors.)  
 General Electric Company. (See Fitz Gerald and Bennie, assignors.)  
 General Electric Company. (See Fleming, R., assignor.)  
 General Electric Company. (See Fleming and Halvorson, assignors.)  
 General Electric Company. (See Foster, W. J., assignor.)  
 General Electric Company. (See Frank, J. J., assignor.)  
 General Electric Company. (See Fritz, W., assignor.)  
 General Electric Company. (See Frost, W. H., assignor.)  
 General Electric Company. (See Fuller, C. T., assignor.)  
 General Electric Company. (See Geisenhöner, H., assignor.)  
 General Electric Company. (See Glaser, L., assignor.)  
 General Electric Company. (See Graybill, J. E., assignor.)  
 General Electric Company. (See Green, C. M., assignor.)  
 General Electric Company. (See Griswold, M., Jr., assignor.)  
 General Electric Company. (See Guay, E. J., assignor.)  
 General Electric Company. (See Guillot, F., assignor.)  
 General Electric Company. (See Hall, J. L., assignor.)  
 General Electric Company. (See Hall and Knight, assignors.)  
 General Electric Company. (See Halliwell, R. F., assignor.)  
 General Electric Company. (See Halvorson, C. A. B., Jr., assignor.)  
 General Electric Company. (See Hamilton and Ver Planck, assignors.)  
 General Electric Company. (See Hand, D., assignor.)  
 General Electric Company. (See Hanna, M. R., assignor.)

*Alphabetical list of patentees—Continued.*

General Electric Company. (See Hansen, I., assignor.)  
 General Electric Company. (See Hanzlik and Hellmer, assignors.)  
 General Electric Company. (See Hårdén, J., assignor.)  
 General Electric Company. (See Haskins, C. D., assignor.)  
 General Electric Company. (See Hawkins, L. A., assignor.)  
 General Electric Company. (See Heath, H. E., assignor.)  
 General Electric Company. (See Hewlett and Merriam, assignors.)  
 General Electric Company. (See Hill, G. H., assignor.)  
 General Electric Company. (See Hoffman, R. L., assignor.)  
 General Electric Company. (See Holden, F., assignor.)  
 General Electric Company. (See Howell, F. B., assignor.)  
 General Electric Company. (See Huguenin, P. A., assignor.)  
 General Electric Company. (See Janisch, L., assignor.)  
 General Electric Company. (See Jenkins, C. F., assignor.)  
 General Electric Company. (See Johnson, E., assignor.)  
 General Electric Company. (See Johnson, J., assignor.)  
 General Electric Company. (See Johnson, W., assignor.)  
 General Electric Company. (See Johnstone, G. A., assignor.)  
 General Electric Company. (See Jones, A. W., assignor.)  
 General Electric Company. (See Junggren, O., assignor.)  
 General Electric Company. (See Kanmacher, S. H., assignor.)  
 General Electric Company. (See Keller, H., assignor.)  
 General Electric Company. (See Kellogg, J. W., assignor.)  
 General Electric Company. (See Kieser, W., assignor.)  
 General Electric Company. (See Knight, C. D., assignor.)  
 General Electric Company. (See Krohn, S., assignor.)  
 General Electric Company. (See Kruh, O. O., assignor.)  
 General Electric Company. (See Kuhlmann, K., assignor.)  
 General Electric Company. (See Larson, C. W., assignor.)  
 General Electric Company. (See Latour, M. C. A., assignor.)  
 General Electric Company. (See Lemp, H., assignor.)  
 General Electric Company. (See Lemp and Fisher, assignors.)  
 General Electric Company. (See Lewis, B., assignor.)  
 General Electric Company. (See Lippelt, H., assignor.)  
 General Electric Company. (See Lloyd, W. J., assignor.)  
 General Electric Company. (See Lloyd and Wilson, assignors.)  
 General Electric Company. (See Loudon, W. A., assignor.)  
 General Electric Company. (See Lum, W. O., assignor.)  
 General Electric Company. (See Mackintosh, F., assignor.)  
 General Electric Company. (See Macloskie, G., assignor.)  
 General Electric Company. (See Macloskie, G., Jr., assignor.)  
 General Electric Company. (See Maxwell, H., assignor.)  
 General Electric Company. (See McDuffee, E. J., assignor.)  
 General Electric Company. (See Merrill, W. L., assignor.)  
 General Electric Company. (See Milch, M., assignor.)  
 General Electric Company. (See Mix, E. W., assignor.)  
 General Electric Company. (See Moak, W. V., assignor.)  
 General Electric Company. (See Monasch, B., assignor.)  
 General Electric Company. (See Morganthaler, P. C., assignor.)  
 General Electric Company. (See Mortensen, C. C. M., assignor.)  
 General Electric Company. (See Moss, S. A., assignor.)  
 General Electric Company. (See Murphy, E. J., assignor.)  
 General Electric Company. (See Naumann, W., assignor.)  
 General Electric Company. (See Newton, F. J., assignor.)  
 General Electric Company. (See Noeggerath, J. E., assignor.)  
 General Electric Company. (See Packer, W. N., assignor.)  
 General Electric Company. (See Paine, S. B., assignor.)  
 General Electric Company. (See Palmer, R., assignor.)  
 General Electric Company. (See Peek, F. W., Jr., assignor.)  
 General Electric Company. (See Peterson, C. F., assignor.)  
 General Electric Company. (See Pevear, J. S., assignor.)  
 General Electric Company. (See Potter, W. B., assignor.)  
 General Electric Company. (See Pratt, A. C., assignor.)  
 General Electric Company. (See Pratt, W. H., assignor.)  
 General Electric Company. (See Priest, E. D., assignor.)  
 General Electric Company. (See Read, R. H., assignor.)  
 General Electric Company. (See Reist, H. G., assignor.)  
 General Electric Company. (See Reist and Noeggerath, assignors.)  
 General Electric Company. (See Rhea, F., assignor.)  
 General Electric Company. (See Rice, R. H., assignor.)  
 General Electric Company. (See Riddell, J., assignor.)  
 General Electric Company. (See Riecke, E., assignor.)  
 General Electric Company. (See Robinson, C., assignor.)  
 General Electric Company. (See Robinson, L. T., assignor.)  
 General Electric Company. (See Robinson and Badeau, assignors.)  
 General Electric Company. (See Rogers, R. H., assignor.)  
 General Electric Company. (See Rose, P., assignor.)  
 General Electric Company. (See Rupley, G. H., assignor.)  
 General Electric Company. (See Russell, R. E., assignor.)  
 General Electric Company. (See Samuelson, F., assignor.)  
 General Electric Company. (See Sargent, H. R., assignor.)  
 General Electric Company. (See Sargent and De Reamer, assignors.)  
 General Electric Company. (See Schattner, E., assignor.)  
 General Electric Company. (See Schultz, C. M., assignor.)  
 General Electric Company. (See Seede, J. A., assignor.)  
 General Electric Company. (See Spalding, C. M., assignor.)  
 General Electric Company. (See Sprenger, W., assignor.)  
 General Electric Company. (See Stanley, W., assignor.)  
 General Electric Company. (See Stearns, R., assignor.)  
 General Electric Company. (See Steinmetz, C. P., assignor.)  
 General Electric Company. (See Stevens, G. E., assignor.)  
 General Electric Company. (See Stewart, S. B., Jr., assignor.)  
 General Electric Company. (See Tarbox, J. P., assignor.)  
 General Electric Company. (See Taylor, J. B., assignor.)  
 General Electric Company. (See Taylor and Bralley, assignors.)  
 General Electric Company. (See Taylor and Carpenter, assignors.)  
 General Electric Company. (See Terwilliger, W. H., assignor.)  
 General Electric Company. (See Thomson, E., assignor.)  
 General Electric Company. (See Thomson and Rice, assignors.)  
 General Electric Company. (See Tirrill, A. A., assignor.)  
 General Electric Company. (See Tripp, C. K., assignor.)  
 General Electric Company. (See Trifle, J. F., assignor.)



*Alphabetical list of patentees—Continued.*

- General Electric Company. (See Troy, M. O., assignor.)  
 General Electric Company. (See Underwood, L. E., assignor.)  
 General Electric Company. (See Unger, M., assignor.)  
 General Electric Company. (See Van Aller, T., assignor.)  
 General Electric Company. (See Vogel, F. M., assignor.)  
 General Electric Company. (See Wedmore, E. B., assignor.)  
 General Electric Company. (See Weedon, W. S., assignor.)  
 General Electric Company. (See Weintraub, E., assignor.)  
 General Electric Company. (See Weintraub and Latour, assignors.)  
 General Electric Company. (See Weldon, H. O., assignor.)  
 General Electric Company. (See White, H. E., assignor.)  
 General Electric Company. (See Whitney, E. R., assignor.)  
 General Electric Company. (See Whitney, W. R., assignor.)  
 General Electric Company. (See Wiard, J. B., assignor.)  
 General Electric Company. (See Wirt, H. C., assignor.)  
 General Electric Company. (See Wolcott, V. A., assignor.)  
 General Electric Company. (See Wood, H. I., assignor.)  
 General Electric Company. (See Wood, M. M., assignor.)  
 General Electric Company. (See Woodward, F. S., assignor.)  
 General Electric Company. (See Worsey, C. H., assignor.)  
 General Electric Company. (See Wright, G., assignor.)  
 General Electric Company. (See Yates, W. C., assignor.)  
 General Electric Company. (See Yuzuk, P. R., assignor.)  
 General Electric Company. (See Zell, F., assignor.)  
 General Electric Company. (See Zimmer, P. H., assignor.)  
 General Electric Company. (See Zweigbergk, T. von, assignor.)  
 General Fire Extinguisher Company. (See Buell, C. E., assignor.)  
 General Fire Extinguisher Company. (See Grinnell, R., assignor.)  
 General Fire Extinguisher Company. (See Jenckes, R. A., assignor.)  
 General Fire Extinguisher Company. (See Meloon, J. C., assignor.)  
 General Fire Extinguisher Company. (See Reynolds, G. H., assignor.)  
 General Fire Extinguisher Company. (See Richmond, A. J., assignor.)  
 General Fireproofing Company. (See Wege, P. M., assignor.)  
 General Fireproofing Company. (See White, H. E., assignor.)  
 General Gas Light Company. (See Humphrey and Wright, assignors.)  
 General Knit Fabric Company. (See Scott, R. W., assignor.)  
 General Manifold and Printing Company. (See Lewis, E. Z., assignor.)  
 General Package Company. (See Wight, A. M., assignor.)  
 General Pump Appliance Company. (See Clark and Netter, assignors.)  
 General Pump Appliance Company. (See Netter, R., assignor.)  
 General Railway Signal Company. (See Dodgson, F. L., assignor.)  
 General Railway Signal Company. (See Dodgson and Howe, assignors.)  
 General Railway Signal Company. (See Howe, W. K., assignor.)  
 General Railway Signal Company. (See Salmon, W. W., assignor.)  
 General Vehicle Company. (See Lloyd, R. M., assignor.)  
 Geneslaw, W., Paterson, N. J. Fire-kindling compound and making same. No. 924,055; June 8; Sp. p. 2075; Gaz. vol. 143; p. 346.  
 Gennert, E. F., New York, N. Y., assignor to Manhattan Brass Company. Electric-shade holder. No. 935,012; Sept. 28; Sp. p. 4099; Gaz. vol. 146; p. 735.  
 Gensler, M. A., York, Pa. Sewing-cabinet. No. 925,431; June 15; Sp. p. 4900; Gaz. vol. 143; p. 836.  
 Gent, F. W., Wellsville, N. Y. Folding table. No. 935,751; Oct. 5; Sp. p. 273; Gaz. vol. 147; p. 44.  
 Gentru, G. W., Peoria, Ill. Dehydrating nitrocellulose. No. 931,749; Aug. 24; Sp. p. 4504; Gaz. vol. 145; p. 783.  
 Gentner, G. N., McMurray, Wash. Log-hauler. No. 932,776; Aug. 31; Sp. p. 6682; Gaz. vol. 145; p. 1147.  
 Gentsch, C., Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. New resin-like product. No. 924,443; June 8; Sp. p. 2915; Gaz. vol. 143; p. 477.  
 Gentle, C., Hamilton, Ontario, Canada. Truck provided with special ball-bearings. No. 912,463; Feb. 16; Sp. p. 2968; Gaz. vol. 139; p. 537.  
 Gentle, W. M., Southport, assignor to G. W. Ladley, Indianapolis, Ind. Box-making machine. No. 914,820; Mar. 9; Sp. p. 2442; Gaz. vol. 140; p. 410.  
 Gentle, W. M., assignor to one-half to G. W. Ladley, Indianapolis, Ind. Compressing-machine. No. 915,424; Mar. 16; Sp. p. 3640; Gaz. vol. 140; p. 634.  
 Gentzler, E. C., Columbus Junction, Iowa. Starting mechanism for internal-combustion engines. No. 916,296; Mar. 23; Sp. p. 5347; Gaz. vol. 140; p. 947.  
 Genung, C. A., Waterloo, N. Y., assignor to one-half to H. S. Eckles & Co., Philadelphia, Pa. Embalming instrument. No. 918,437; Apr. 13; Sp. p. 2990; Gaz. vol. 141; p. 526.  
 Geo. E. Keith Company. (See Ward, G. E., assignor.)  
 Geo. McKibbin & Son. (See Paifer, A., assignor.)  
 Geo. V. Cresson Co. (See Stacks, H. R., assignor.)  
 George, C. A., Almond, Wis. Nut-lock. No. 929,084; July 27; Sp. p. 4929; Gaz. vol. 144; p. 878.  
 George, D., Hardway, Gosport, England. Variable-speed transmission-clutch. No. 934,604; Sept. 21; Sp. p. 3283; Gaz. vol. 146; p. 572.  
 George D. Whitcomb Company. (See Whitcomb, W. C., assignor.)  
 George, E. F., Manlius, N. Y. Electric aerial ambulating system. No. 915,171; Mar. 16; Sp. p. 3140; Gaz. vol. 140; p. 551.  
 George, G. L. (See George, J. C. and G. L.)  
 George Glover & Company. (See Cox and Staples, assignors.)  
 George H. Cahoon Company. (See Walker, H., assignor.)  
 George, J. C. and G. L., Bristol, Tenn., assignors to one-third to J. J. Alley, Bristol, Virginia-Tennessee. Mold for casting sash-weights. No. 923,441; July 20; Sp. p. 3632; Gaz. vol. 144; p. 639.  
 George, J. H., assignor, by mesne assignments, to D. A. Eaton, New York, N. Y. Molded barrel construction. No. 908,557; Jan. 5; Sp. p. 262; Gaz. vol. 138; p. 44.  
 George, J. R., assignor to Morgan Construction Company, Worcester, Mass. Rolling-mill. No. 926,863; July 6; Sp. p. 335; Gaz. vol. 144; p. 54.  
 George, J. R., assignor to Morgan Construction Company, Worcester, Mass. Gas-producer. No. 932,853; Aug. 31; Sp. p. 6819; Gaz. vol. 145; p. 1170.  
 George, J. S., Laurens, S. C. Wrench. No. 913,374; Feb. 23; Sp. p. 4847; Gaz. vol. 139; p. 868.  
 George M. Edgerton Co. (See Edgerton, G. M., assignor.)  
 George, M. F., Chelsea, Vt. Cattle-stanchion. No. 930,069; Aug. 3; Sp. p. 938; Gaz. vol. 145; p. 151.  
 George Murphy, Inc. (See Dow, C., assignor.)  
 George Murphy, Inc. (See Lavender, J. G., assignor.)  
 George N. Pierce Company. (See Fergusson and Sheppy, assignors.)  
 George P. Pilling and Son Company. (See Faight, F. A., assignor.)  
 George, R. F., Brooklyn, N. Y. Pencil-sharpener. No. 941,631; Nov. 30; Sp. p. 7000; Gaz. vol. 148; p. 1184.  
 Georges, C., St. Cloud, France. Embroidery-machine. No. 921,825; May 18; Sp. p. 3576; Gaz. vol. 142; p. 633.  
 Georgig, J., Philadelphia, Pa. Attachment for phonographs. No. 936,115; Oct. 5; Sp. p. 1082; Gaz. vol. 147; p. 165.  
 Geraci, I., assignor to one-half to C. Linkins, Washington, D. C. Coat-hanger. No. 923,786; June 1; Sp. p. 1528; Gaz. vol. 143; p. 230.  
 Gerald, W. H., Prescott, Ontario, Canada. Bung. No. 913,637; Feb. 23; Sp. p. 5434; Gaz. vol. 139; p. 957.  
 Gerard Development Company. (See Taylor, E., assignor.)  
 Gerber, F., New York, N. Y. Fan. No. 912,464; Feb. 16; Sp. p. 2969; Gaz. vol. 139; p. 537.  
 Gerdelman, B., St. Louis, Mo. Water-heater. No. 913,375; Feb. 23; Sp. p. 4848; Gaz. vol. 139; p. 869.  
 Gerdes, H., Berlin, Germany. Stove, furnace, and the like. No. 924,548; June 8; Sp. p. 3127; Gaz. vol. 143; p. 510.  
 Gerdes, H. J., Springfield, Mass. Machine for making crullers. No. 917,581; Apr. 6; Sp. p. 1212; Gaz. vol. 141; p. 212.  
 Gerdon, F. M., St. Louis, Mo. Self-soaping washboard. No. 933,641; Sept. 7; Sp. p. 1379; Gaz. vol. 146; p. 207.  
 Gerds, C. L., Chicago, Ill. Pocket pencil-holder. No. 917,582; Apr. 6; Sp. p. 1216; Gaz. vol. 141; p. 213.

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- Gerhard, F., Traben-Trarbach, Germany. Bottle-stopper. No. 944,671; Dec. 28; Sp. p. 5685; Gaz. vol. 149; p. 986.  
 Gerhardt, C. C., New York, N. Y. Pipe or hose cleaning device. No. 940,457; Nov. 16; Sp. p. 4481; Gaz. vol. 148; p. 749.  
 Gerhardt, H. J., and F. C. Stecker, Neenah, Wis. Truss-rod construction and adjusting device. No. 932,118; Aug. 24; Sp. p. 5306; Gaz. vol. 145; p. 904.  
 Gerhardt, H. J., and F. C. Stecker, Neenah, Wis. Rail-fastening for securing rail-chairs to ties. No. 935,752; Oct. 5; Sp. p. 275; Gaz. vol. 147; p. 44.  
 Gerisch, K. and M., Chemnitz, Germany. Spring-fastening. No. 924,341; June 8; Sp. p. 2722; Gaz. vol. 143; p. 443.  
 Gerisch, M. (See Gerisch, K. and M.)  
 Gerlach, O., Iola, Kans. Composite cross-tie for railways. No. 938,136; Oct. 26; Sp. p. 5307; Gaz. vol. 147; p. 908.  
 Gerlach, W., Sharpsburg, Iowa. Swinging chair. No. 929,207; July 27; Sp. p. 5187; Gaz. vol. 144; p. 919.  
 Gerling, C. H. (See Bernhard, Good, and Gerling.)  
 Gerlock, J. A., assignor to J. Nazel, Philadelphia, Pa. Bending-machine. No. 910,282; Jan. 19; Sp. p. 3790; Gaz. vol. 138; p. 682.  
 Germain, E. A. J., Milford, Conn. Adjusting device for mirrors. No. 931,291; Aug. 17; Sp. p. 3546; Gaz. vol. 145; p. 612.  
 Germain, P., Paris, France. Separating metals from ores. No. 921,227; May 11; Sp. p. 2317; Gaz. vol. 142; p. 406.  
 Germain, P. J. (See Kelly and Germain.)  
 German, A. (See Smitson and German.)  
 German American Button Company. (See Cochrane, R. B., assignor.)  
 German, J. (See Graham and German.)  
 Germani, G., assignor of one-half to R. Zangrilli, Pittsburg, Pa. Sparking mechanism for explosive-engines. No. 927,346; July 6; Sp. p. 1297; Gaz. vol. 144; p. 214.  
 Germany, W. T., Bogue Chitto, Miss. Lacing-needle. No. 940,682; Nov. 23; Sp. p. 4970; Gaz. vol. 148; p. 848.  
 Germeau, E. N. J., Jumet, and A. N. G. Bouton, Ixelles-Brussels, Belgium. Boiler installation. No. 913,638; Feb. 23; Sp. p. 5436; Gaz. vol. 139; p. 957.  
 Germer, W. F. H., New York, N. Y., assignor to General Acoustic Company. Dictograph. No. 927,230; July 6; Sp. p. 1095; Gaz. vol. 144; p. 178.  
 Germon, F., Leadville, Colo. Harrow. No. 913,639; Feb. 23; Sp. p. 5438; Gaz. vol. 139; p. 957.  
 Gernandt, E. H., San Francisco, Cal. Shoe-polishing stand. No. 944,990; Dec. 28; Sp. p. 6364; Gaz. vol. 149; p. 1092.  
 Gerner, H. J., assignor to M. Gerner, Canton, Ohio. Continuous ice-cream freezer. No. 935,490; Sept. 28; Sp. p. 5036; Gaz. vol. 146; p. 890.  
 Gerner, M. (See Gerner, H. J., assignor.)  
 Gero, A. J., Waterville, Me. Sterilizer. No. 919,710; Apr. 27; Sp. p. 5900; Gaz. vol. 141; p. 1013.  
 Gerow, J. W. (See Meredith, J. M., Jr., assignor.)  
 Gerrard, T. H., assignor of one-half to E. A. Michon, Troy, N. Y. Clutch. No. 940,002; Nov. 16; Sp. p. 3422; Gaz. vol. 148; p. 590.  
 Gerrie, H. R., and W. Pender, Montreal, Quebec, Canada. Tobacco-leaf-stemming machine. No. 915,342; Mar. 16; Sp. p. 3476; Gaz. vol. 140; p. 607.  
 Gersch, C. H., Chicago, Ill. Window-scaffold. No. 917,046; Apr. 6; Sp. p. 172; Gaz. vol. 141; p. 33.  
 Gershon, G. G., New York, N. Y. Coat-hanger. No. 937,233; Oct. 19; Sp. p. 3408; Gaz. vol. 147; p. 596.  
 Gerst, P., Stuttgart, Germany. Closing device for doors. No. 910,283; Jan. 19; Sp. p. 3792; Gaz. vol. 138; p. 683.  
 Gerstein, I., et al. (See Rosenbaum and Voglhut, assignors.)  
 Gerstendorfer Bros. (See Eckart, E., assignor.)  
 Gerster, S. W., Gerster, Mo. Milking vessel. No. 938,658; Nov. 2; Sp. p. 477; Gaz. vol. 148; p. 73.  
 Gerstheimer, G., New York, N. Y. Hat-fastener. No. 937,234; Oct. 19; Sp. p. 3409; Gaz. vol. 147; p. 590.  
 Gerstkemper, E., Hyleton, Ill. Mounted extension for band-cutters and feeders. No. 915,425; Mar. 16; Sp. p. 3645; Gaz. vol. 140; p. 634.  
 Gertler, S. E., assignor to C. F. Splitdorf, New York, N. Y. Permanent magnetic metal. No. 936,530; Oct. 12; Sp. p. 1971; Gaz. vol. 147; p. 325.  
 Gervin, C. D., New York, N. Y. Multiple-pendant switch. No. 928,597; July 20; Sp. p. 3953; Gaz. vol. 144; p. 689.  
 Gerwig, F. H. N. (See Mohr and Gerwig.)  
 Gerwig & Iden Company. (See Danker, H. M., assignor.)  
 Gery, J., Paterson, N. J. Snow-guard. No. 927,522; July 13; Sp. p. 1689; Gaz. vol. 144; p. 301.  
 Gesche, E. C., Seguin, Tex. Cotton-chopper. No. 925,768; June 22; Sp. p. 5624; Gaz. vol. 143; p. 976.  
 Gesche, E. C., Seguin, Tex. Gearing. No. 925,769; June 22; Sp. p. 5631; Gaz. vol. 143; p. 976.  
 Geschke, E., Charlottenburg-Berlin, Germany. Cage for ball-bearings. No. 918,996; Apr. 20; Sp. p. 4245; Gaz. vol. 141; p. 741.  
 Geschke, E., Tegel, near Berlin, Germany. Means for introducing balls into ball-bearings. No. 941,632; Nov. 30; Sp. p. 7001; Gaz. vol. 148; p. 1184.  
 Geschwinder, H. (See Whyte and Geschwinder.)  
 Gese, A. A. C., Bremen, Germany. Electric hoist. No. 935,363; Sept. 28; Sp. p. 4809; Gaz. vol. 146; p. 850.  
 Gesellschaft der Ludw. von Roll'schen Eisenwerke. (See Schwyzer, A., assignor.)  
 Gesellschaft für Stickstoffdünger, Gesellschaft mit beschränkter Haftung. (See Krauss, C., assignor.)  
 Gesellschaft für Tabakveredelung m. b. H. (See Montag, G., assignor.)  
 Gessert, J., Rochester, N. Y. Drill-brace. No. 924,901; June 15; Sp. p. 3882; Gaz. vol. 143; p. 662.  
 Gessman, T. J., Warwick, Okla. Cotton-picking apparatus. No. 919,847; Apr. 27; Sp. p. 6203; Gaz. vol. 141; p. 1059.  
 Gessner, D., administrator. (See Gessner, E.)  
 Gessner, E., deceased; D. Gessner, administrator, Worcester, Mass. Carding-engine. No. 920,862; May 4; Sp. p. 1557; Gaz. vol. 142; p. 251.  
 Gestetner, D., Tottenham Hale, England. Addressing-machine. No. 916,434; Mar. 30; Sp. p. 5627; Gaz. vol. 140; p. 1020.  
 Getchel, E. C. (See Bailey, F. C., assignor.)  
 Getchell, B. E., and O. O. Smith, Connellsville, Pa. Integrating-wattmeter. No. 911,036; Feb. 2; Sp. p. 24; Gaz. vol. 139; p. 7.  
 Geterman, C. J., assignor to J. E. McLain, Canton, Ohio. Trolley stand or base. No. 912,556; Feb. 16; Sp. p. 3175; Gaz. vol. 139; p. 569.  
 Geterman, C. J., assignor to J. E. McLain, Canton, Ohio. Trolley stand or base. No. 912,557; Feb. 16; Sp. p. 3177; Gaz. vol. 139; p. 570.  
 Geterman, C. J., assignor of one-half to F. J. Beck, Canton, Ohio. Toe-weight. No. 915,849; Mar. 23; Sp. p. 4523; Gaz. vol. 140; p. 803.  
 Gether, C. R., Milwaukee, Wis. Clutch mechanism. No. 923,965; June 8; Sp. p. 1908; Gaz. vol. 143; p. 319.  
 Gething, W. B., Cape Town, Cape Colony. Drinking-fountain for birds, fowls, and animals. No. 939,493; Nov. 9; Sp. p. 2320; Gaz. vol. 148; p. 385.  
 Gettelman, F., Milwaukee, Wis. Vehicle-brake. No. 930,371; Aug. 10; Sp. p. 1516; Gaz. vol. 145; p. 275.  
 Gettelmann, L., South Germantown, Wis. Beet-harvester. No. 919,342; Apr. 27; Sp. p. 5115; Gaz. vol. 141; p. 887.  
 Gettle, T. S. (See Winkelmeyer, J., assignor.)  
 Gettle, T. S. (See Wright, C. M., assignor.)  
 Getty, V. C., Pittsburg, assignor of one-half to F. J. Kurt, Allegheny county, Pa. Milk-bottle holder. No. 930,281; Aug. 3; Sp. p. 1336; Gaz. vol. 145; p. 221.  
 Getty, W., et al. (See Frederick, L., assignor.)  
 Getz, J. O., Alameda, Cal. Pneumatic-tire protector. No. 909,884; Jan. 19; Sp. p. 2926; Gaz. vol. 138; p. 545.  
 Geurink, B. A., East Cleveland, assignor to Trenkamp Stove & Manufacturing Company, Cleveland, Ohio. Gas-burner. No. 939,242; Nov. 9; Sp. p. 1723; Gaz. vol. 148; p. 299.  
 Geurink, B. A., East Cleveland, assignor to Trenkamp Stove & Manufacturing Company, Cleveland, Ohio. Bake-oven. No. 939,410; Nov. 9; Sp. p. 2154; Gaz. vol. 148; p. 357.  
 Geurink, B. A., East Cleveland, assignor to Trenkamp Stove & Manufacturing Company, Cleveland, Ohio. Gas-burner. No. 941,708; Nov. 30; Sp. p. 7184; Gaz. vol. 148; p. 1211.  
 Geyze, L., Trith St. Léger, France. Mechanical charging apparatus for blast-furnaces. No. 938,572; Nov. 2; Sp. p. 297; Gaz. vol. 148; p. 44.  
 Geyer, M. R., Wilkinsburg, Pa. Ironing-board. No. 932,854; Aug. 31; Sp. p. 6821; Gaz. vol. 145; p. 1171.  
 Ghegan, J. J., Newark, N. J., assignor to J. H. Bunnell and Company, New York, N. Y. Telegraphic instrument. No. 927,347; July 6; Sp. p. 1299; Gaz. vol. 144; p. 214.  
 Gherky, W. D., Philadelphia, Pa. Pole-sleeve. No. 913,376; Feb. 23; Sp. p. 4849; Gaz. vol. 139; p. 869.  
 Ghiglieri, W. (See Smith, Ghiglieri, and Ingersoll.)  
 Giannini, G. J., et al. (See Reconi, P., assignor.)  
 Giannousis, A., New York, N. Y. Measuring instrument. No. 927,523; July 13; Sp. p. 1690; Gaz. vol. 144; p. 301.  
 Giarra, T., Boston, Mass. Multiplex-telegraph system. No. 914,713; Mar. 9; Sp. p. 2229; Gaz. vol. 140; p. 375.  
 Glarh, J. H., Altoona, Pa. Trolley-wheel. No. 913,721; Mar. 2; Sp. p. 93; Gaz. vol. 140; p. 16.  
 Gibb, F. N., Little Rock, Ark. Spring-wheel. No. 934,159; Sept. 14; Sp. p. 2438; Gaz. vol. 146; p. 400.  
 Gibb, W. L., Ocean City, N. J. Sheet-piling. No. 927,963; July 13; Sp. p. 2638; Gaz. vol. 144; p. 448.  
 Gibb, W. L., Ocean City, N. J. Sheet-piling. No. 927,964; July 13; Sp. p. 2639; Gaz. vol. 144; p. 448.  
 Gibbard, W. F., Fruitvale, Cal. Window-screen. No. 913,722; Mar. 2; Sp. p. 94; Gaz. vol. 140; p. 17.  
 Gibbes, A. M. (See Leonard, D. C., assignor.)  
 Gibbins, J. O., Lookout, Cal. Engine-aligner. No. 914,370; Mar. 2; Sp. p. 1533; Gaz. vol. 140; p. 237.  
 Gibbon, R. J., Chicago, Ill., assignor to F. Wesel Manufacturing Company, Brooklyn, N. Y. Hydraulic press. No. 919,568; Apr. 27; Sp. p. 5614; Gaz. vol. 141; p. 965.



*Alphabetical list of patentees—Continued.*

- Gibbon, R. J., Chicago, Ill., assignor to F. Wesel Manufacturing Company, Brooklyn, N. Y. Work-table for presses and the like. No. 927,458; July 6; Sp. p. 1540; Gaz. vol. 144; p. 253.
- Gibbons, E. F., Salem, Ohio. Fodder-shredder. No. 914,136; Mar. 2; Sp. p. 1030; Gaz. vol. 140; p. 163.
- Gibbons, J. M., New York, N. Y. Boat or yacht. No. 919,343; Apr. 27; Sp. p. 5117; Gaz. vol. 141; p. 888.
- Gibbons, W. G., Edinburgh, Scotland. Telemotor apparatus. No. 930,955; Aug. 10; Sp. p. 2755; Gaz. vol. 145; p. 469.
- Gibbons, W. P. (See Gunning and Hansford, assignors.)
- Gibbs, B. F., Winslow, Ariz. Ter. Paper-directing attachment for type-writing machines. No. 925,576; June 22; Sp. p. 5189; Gaz. vol. 143; p. 913.
- Gibbs, C., and J. Sokolov, assignors to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 924,606; June 8; Sp. p. 3249; Gaz. vol. 143; p. 530.
- Gibbs, C. F., *et al.* (See Baum, J. B., assignor.)
- Gibbs, E. E., assignor of one-half to I. R. Laurance, Ukiah, Ore. Rifle-sight. No. 915,670; Mar. 16; Sp. p. 4171; Gaz. vol. 140; p. 719.
- Gibbs, H., Chicago, Ill. Valve. No. 937,931; Oct. 26; Sp. p. 4863; Gaz. vol. 147; p. 840.
- Gibbs, H., assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Lawn-sprinkler. No. 911,716; Feb. 9; Sp. p. 1381; Gaz. vol. 139; p. 257.
- Gibbs, H., assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Sprinkler-head. No. 911,717; Feb. 9; Sp. p. 1383; Gaz. vol. 139; p. 257.
- Gibbs, H., assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Hose-rack. No. 933,069; Sept. 7; Sp. p. 64; Gaz. vol. 146; p. 11.
- Gibbs, H. S. (See Burr and Gibbs.)
- Gibbs, I. A., assignor of one-half to J. Rose, Roanoke, Va. Track-sanding apparatus. No. 920,863; May 4; Sp. p. 1559; Gaz. vol. 142; p. 252.
- Gibbs, I. A., assignor of one-half to J. Rose, Roanoke, Va. Track-sanding apparatus. No. 927,459; July 6; Sp. p. 1542; Gaz. vol. 144; p. 253.
- Gibbs, J. E., Huntington, W. Va. Sash-locking device. No. 922,882; May 25; Sp. p. 5766; Gaz. vol. 142; p. 1005.
- Gibbs, L., assignor to Gibbs Manufacturing Company, Canton, Ohio. Hoop sizing and clamping device. No. 940,869; Nov. 23; Sp. p. 5375; Gaz. vol. 148; p. 910.
- Gibbs Manufacturing Company. (See Gibbs, S. W., assignor.)
- Gibbs, S. W., Canton, Ohio. Embroidery-frame. No. 929,583; July 27; Sp. p. 5929; Gaz. vol. 144; p. 1042.
- Gibbs, S. W., assignor to Gibbs Manufacturing Company, Canton, Ohio. Embroidery-hoop. No. 928,598; July 20; Sp. p. 3956; Gaz. vol. 144; p. 690.
- Gibbs, W. F., Philadelphia, Pa. Gasolene fire-engine. No. 918,140; Apr. 13; Sp. p. 2399; Gaz. vol. 141; p. 430.
- Gibbs, W. T., Buckingham, Quebec, Canada. Making caustic alkalies. No. 910,662; Jan. 26; Sp. p. 4582; Gaz. vol. 138; p. 833.
- Gibbs, W. W. (See Lohman, A., assignor.)
- Gibbs, W. W., *et al.* (See MacFarland, A. M., assignor.)
- Gibert, E. B., Paris, France. Wired glass. No. 912,950; Feb. 16; Sp. p. 3974; Gaz. vol. 139; p. 699.
- Gibford, W., assignor of one-half to L. Ottens, Golden, Colo. Brick-kiln. No. 925,432; June 15; Sp. p. 4901; Gaz. vol. 143; p. 836.
- Gibler, B. F., Winslow, Ill., assignor to H. B. Shultz, Minneapolis, Minn. Cement-post machine. No. 937,300; Oct. 19; Sp. p. 3538; Gaz. vol. 147; p. 611.
- Gibney, J. W., assignor to W. P. Taylor Company, Buffalo, N. Y. Car-pedestal. No. 910,284; Jan. 19; Sp. p. 3792; Gaz. vol. 138; p. 683.
- Gibson, A. H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Mining machinery. No. 915,949; Mar. 23; Sp. p. 4705; Gaz. vol. 140; p. 835.
- Gibson, A. H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Pulsator. No. 915,950; Mar. 23; Sp. p. 4707; Gaz. vol. 140; p. 835.
- Gibson, A. H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Controller for electrically-driven pulsators. No. 915,951; Mar. 23; Sp. p. 4709; Gaz. vol. 140; p. 836.
- Gibson, A. H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Channeling-machine. No. 944,672; Dec. 28; Sp. p. 5686; Gaz. vol. 149; p. 966.
- Gibson, A. H., Easton, Pa., assignor to Ingersoll-Sergeant Drill Company, New York, N. Y. Coal-mining machine. No. 944,029; Dec. 21; Sp. p. 4300; Gaz. vol. 149; p. 741.
- Gibson, D. F., *et al.* (See Foley, J., assignor.)
- Gibson, D. N., Homestead, Pa. Water-heater. No. 916,297; Mar. 23; Sp. p. 5349; Gaz. vol. 140; p. 948.
- Gibson, E. H., and A. D. Bevier, Clyde, Ohio. Roller window-screen. No. 933,245; Sept. 7; Sp. p. 499; Gaz. vol. 146; p. 76.
- Gibson, E. J., assignor of one-half to W. B. Burke, Charleston, Miss. Stock-lifter for sawmills. No. 943,304; Dec. 14; Sp. p. 2735; Gaz. vol. 149; p. 462.
- Gibson, G. H., Montclair, N. J., assignor to J. S. L. Wharton, W. S. Hollowell, and J. C. Jones, Philadelphia, Pa. Feed-water heater. No. 938,573; Nov. 2; Sp. p. 299; Gaz. vol. 148; p. 44.
- Gibson, H., Adena, Ohio. Buckle and clasp attaching means. No. 909,782; Jan. 12; Sp. p. 2709; Gaz. vol. 138; p. 479.
- Gibson, H. H., Sterling, Mich. Tile-machine. No. 924,450; June 8; Sp. p. 2915; Gaz. vol. 143; p. 478.
- Gibson, J., Chicago, Ill. Building construction. No. 923,507; June 1; Sp. p. 882; Gaz. vol. 143; p. 134.
- Gibson, J. B., Webb City, Mo. Conveyor-bucket. No. 939,243; Nov. 9; Sp. p. 1724; Gaz. vol. 148; p. 299.
- Gibson, J. H., Bruin, Pa. Oil-saver. No. 915,589; Mar. 16; Sp. p. 3984; Gaz. vol. 140; p. 688.
- Gibson, J. L., assignor to Gibson Oat Crusher Co., Chicago, Ill. Feed-crusher. No. 923,966; June 8; Sp. p. 1909; Gaz. vol. 143; p. 319.
- Gibson Mandolin-Guitar Company. (See Laurian, G. D., assignor.)
- Gibson Mfg. Co. (See Gibson, W., assignor.)
- Gibson, N. L., assignor of forty-nine one-hundredths to J. C. Souseley, Chicago, Ill. Folded paper box. No. 932,385; Aug. 24; Sp. p. 580; Gaz. vol. 145; p. 993.
- Gibson, O., Hollidaysburg, assignor of one-fourth to C. H. Glazier, Huntingdon, fifty-five one-hundredths to C. E. Foster, Pittsburg, and twenty one-hundredths to W. S. Taylor, Huntingdon, Pa. Train-controlling mechanism. No. 936,443; Oct. 12; Sp. p. 1790; Gaz. vol. 147; p. 297.
- Gibson, O., Hollidaysburg, assignor of one-fourth to C. H. Glazier, Huntingdon, fifty-five one-hundredths to C. E. Foster, Pittsburg, and twenty one-hundredths to W. S. Taylor, Huntingdon, Pa. Air-brake safety-valve. No. 937,991; Oct. 26; Sp. p. 4986; Gaz. vol. 147; p. 859.
- Gibson Oat Crusher Co. (See Gibson, J. L., assignor.)
- Gibson, R. A., South Berkeley, assignor of one-half to J. B. Sartolou, Oakland, Cal. Music-leaf turner. No. 942,821; Dec. 7; Sp. p. 1622; Gaz. vol. 149; p. 266.
- Gibson, R. L., Philadelphia, Pa. Manufacture of records for sound-reproducing machines. No. 943,631; Dec. 14; Sp. p. 3452; Gaz. vol. 149; p. 575.
- Gibson, R. L., Philadelphia, Pa., assignor to Victor Talking Machine Company. Talking-machine. No. 936,531; Oct. 12; Sp. p. 1972; Gaz. vol. 147; p. 325.
- Gibson, S., assignor to W. Gibson, Edray, W. Va. Wire-clamp. No. 938,842; Nov. 2; Sp. p. 839; Gaz. vol. 148; p. 135.
- Gibson, T. J., St. Louis, Mo. Automatic safety sash-lock. No. 909,783; Jan. 12; Sp. p. 2711; Gaz. vol. 138; p. 479.
- Gibson, W. (See Gibson, S., assignor.)
- Gibson, W., assignor to Gibson Mfg. Co., Danbury, Conn. Telephone-mouthpiece. No. 913,947; Mar. 2; Sp. p. 604; Gaz. vol. 140; p. 96.
- Gibson, W., assignor to Gilson & Fleddermann, Louisville, Ky. Open-welt guide. No. 930,469; Aug. 10; Sp. p. 1705; Gaz. vol. 145; p. 308.
- Gibson, W. E., Spokane, Wash. Water-closet. No. 918,136; Apr. 13; Sp. p. 2195; Gaz. vol. 141; p. 394.
- Giezewski, J., West Hammond, Ill. Rail-joint. No. 912,558; Feb. 16; Sp. p. 3179; Gaz. vol. 139; p. 570.
- Giddens, W. W., Adel, Ga. Plow. No. 944,427; Dec. 28; Sp. p. 5140; Gaz. vol. 149; p. 902.
- Giddings, F. M., assignor of one-fourth to G. W. Palmer and one-fourth to C. A. Westring, Galesburg, Ill. Copy-holder. No. 940,003; Nov. 16; Sp. p. 3423; Gaz. vol. 148; p. 590.
- Giddings & Lewis Manufacturing Company. (See Anderson, U., assignor.)
- Giddings, S. R., Timnath, and D. T. Bevins, Windsor, Colo., assignors to Yankee Beet Topper Company. Beet-topper. No. 909,395; Jan. 12; Sp. p. 1946; Gaz. vol. 138; p. 347.
- Giebler, P., Catharine, Kans. Shifting eccentric. No. 912,836; Feb. 16; Sp. p. 3782; Gaz. vol. 139; p. 665.
- Giebler & Son, J. (See Leonard, M., assignor.)
- Gielow, C., assignor to Richard Raupach Maschinenfabrik Goerlitz, G. M. B. H., Goerlitz, Germany. Charger for ceramic materials. No. 911,816; Feb. 9; Sp. p. 1553; Gaz. vol. 139; p. 289.
- Gienandt, F. L., Boston, Mass. Egg-whip. No. 944,781; Dec. 28; Sp. p. 5930; Gaz. vol. 149; p. 1023.
- Gierding, C. E., Newark, N. J. Registering fare-box. No. 914,821; Mar. 9; Sp. p. 2450; Gaz. vol. 140; p. 410.
- Gierding, C. E., Newark, N. J. Automatic wheel-guard. No. 935,491; Sept. 28; Sp. p. 5041; Gaz. vol. 146; p. 891.
- Gierding, C. E., assignor to Sterling-Meaker Company, Newark, N. J. Trolley-base. No. 928,442; July 20; Sp. p. 3634; Gaz. vol. 144; p. 640.
- Giermann, W. A., Blencoe, Iowa. Combined shovel-board and end-gate. No. 932,980; Aug. 31; Sp. p. 7047; Gaz. vol. 145; p. 1212.
- Giese, J. A., Chicago, Ill., assignor to Adams & Shovelake Company. Latch. No. 927,231; July 6; Sp. p. 1099; Gaz. vol. 144; p. 178.
- Giese, L., Fort Worth, Tex. Alarm system. No. 922,883; May 25; Sp. p. 5768; Gaz. vol. 142; p. 1006.
- Giesting, J. G., San Francisco, Cal., assignor to Herring-Hall-Marvin Safe Company, Hamilton, Ohio. Vault-vestibule. No. 942,633; Dec. 7; Sp. p. 1253; Gaz. vol. 149; p. 205.

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- Giffen, O. A., Hanover, Ohio. Gas-cut-off valve. No. 919,155; Apr. 20; Sp. p. 4527; Gaz. vol. 141; p. 791.
- Giffin, A. A., Springfield, Mass. Musical building-blocks. No. 939,127; Nov. 2; Sp. p. 1441; Gaz. vol. 148; p. 234.
- Giffin, M. F., Cove, Oreg. Non-refillable bottle and bottle-valve. No. 944,030; Dec. 21; Sp. p. 4302; Gaz. vol. 149; p. 741.
- Gifford, A. J., assignor to C. H. Morgan, Worcester, Mass. Crank-shaft connection for engines. No. 931,750; Aug. 24; Sp. p. 4506; Gaz. vol. 145; p. 784.
- Gifford, A. J., J. J. Burns, and B. S. T. Bishop, assignors to W. H. Leland & Co., Worcester, Mass. Ignition device for gas-engines. No. 933,246; Sept. 7; Sp. p. 500; Gaz. vol. 146; p. 76.
- Gifford, A. W., Worcester, Mass. Pencil-sharpener. No. 943,223; Dec. 14; Sp. p. 2556; Gaz. vol. 149; p. 434.
- Gifford, H. L. (See Hackmann and Childs, assignors.)
- Gifford, J., Watertown, N. Y. Snow-shovel. No. 930,660; Aug. 10; Sp. p. 2136; Gaz. vol. 145; p. 373.
- Gifford, L. R., Westmont borough, Pa. Rail-fastener. No. 911,970; Feb. 9; Sp. p. 1935; Gaz. vol. 139; p. 340.
- Gifford, W., Traverse City, Mich. Lightning-arrester. No. 919,569; Apr. 27; Sp. p. 5621; Gaz. vol. 141; p. 965.
- Gifford, W., Traverse City, Mich. Lightning-arrester. No. 931,408; Aug. 17; Sp. p. 3778; Gaz. vol. 145; p. 652.
- Gifford, W. E., assignor of one-fourth to L. V. Marr and one-fourth to M. P. Emery, Fairfield, Me. Nut-lock. No. 916,298; Mar. 23; Sp. p. 5351; Gaz. vol. 140; p. 948.
- Gilbert & Barker Manufacturing Company. (See Barker, J. F., assignor.)
- Gilbert, C. E., Lyle, Minn. Culvert-fastener. No. 917,583; Apr. 6; Sp. p. 1217; Gaz. vol. 141; p. 213.
- Gilbert, C. S., St. Joseph, Mo. Safety appliance for electric elevators. No. 936,116; Oct. 5; Sp. p. 1084; Gaz. vol. 147; p. 165.
- Gilbert, D. S., Reading, Pa. Quick-action triple valve. No. 942,634; Dec. 7; Sp. p. 1254; Gaz. vol. 149; p. 205.
- Gilbert, E., Portland, Oreg.; M. E. Gilbert, guardian, assignor, by mesne assignments, to A. A. Klingman, New York, N. Y. Repeating mechanism for phonographs. No. 911,491; Feb. 2; Sp. p. 878; Gaz. vol. 139; p. 155.
- Gilbert, H. J., Saginaw, Mich. Bushing. No. 910,526; Jan. 26; Sp. p. 4292; Gaz. vol. 138; p. 788.
- Gilbert, H. J., Saginaw, Mich. Pulley. No. 910,527; Jan. 26; Sp. p. 4293; Gaz. vol. 138; p. 788.
- Gilbert, H. J., assignor to William B. Mershon and Company, Saginaw, Mich. Resawing-machine. No. 939,903; Nov. 9; Sp. p. 3190; Gaz. vol. 148; p. 527.
- Gilbert, M. E., guardian. (See Gilbert, E.)
- Gilbert, P. M., Hennessey, Okla. Beef pulling and topping machine. No. 937,592; Oct. 19; Sp. p. 4165; Gaz. vol. 147; p. 709.
- Gilbert, T. J. (See Woods and Gilbert.)
- Gilbert, T. M. (See Hill, J. E., assignor.)
- Gilbert, W. M., *et al.* (See Hill, J. E., assignor.)
- Gilbreth, F. B., Brookline, Mass. Method and apparatus for sinking concrete piles. No. 911,971; Feb. 9; Sp. p. 1937; Gaz. vol. 139; p. 340.
- Gilcher, G., Ridgefield Park, N. J. Adjustable pilot-light attachment for gas-fixtures. No. 912,304; Feb. 16; Sp. p. 2640; Gaz. vol. 139; p. 484.
- Gilchrist, B. W., and G. L. Rice, Woodhaven, N. Y. Anode element. No. 922,470; May 25; Sp. p. 4889; Gaz. vol. 142; p. 871.
- Gilchrist, D. A., Belgrade, Mont. Wagon-jack. No. 918,141; Apr. 13; Sp. p. 2401; Gaz. vol. 141; p. 430.
- Gilchrist, G. (See Wollner, A., assignor.)
- Gilchrist, H. C., *et al.* (See Garner, W. R., assignor.)
- Gilchrist, L. M., assignor of one-half to A. E. Yanson, Henderson, Ky. Nut-lock. No. 915,343; Mar. 16; Sp. p. 3479; Gaz. vol. 140; p. 760.
- Gilchrist, R. B., Newark, N. J. Bottle-capper. No. 935,013; Sept. 28; Sp. p. 4100; Gaz. vol. 146; p. 735.
- Gilda, J. R., assignor to A. F. Zell, St. Louis, Mo. Safety-razor. No. 937,992; Oct. 26; Sp. p. 4988; Gaz. vol. 147; p. 860.
- Gildemeister, E. M., Chicago, Ill. Broom-holder. No. 908,558; Jan. 5; Sp. p. 264; Gaz. vol. 138; p. 44.
- Giles, D., Chattanooga, Tenn., assignor to United States Cast Iron Pipe & Foundry Company. Furnace-charging apparatus. No. 933,031; Aug. 31; Sp. p. 7158; Gaz. vol. 145; p. 1229.
- Giles, H. C., assignor of one-third to W. W. White, New York, N. Y. Letter-box. No. 922,574; May 25; Sp. p. 5102; Gaz. vol. 142; p. 905.
- Giles, W. (See Haas and Giles.)
- Giles, W. C. (See McNutt, W. H., assignor.)
- Giles, W. F., New York, N. Y., assignor of one-half to F. C. Norris, Detroit, Mich. Producing, from straw, a liquid suitable for the production of alcohol. No. 918,997; Apr. 20; Sp. p. 4246; Gaz. vol. 141; p. 742.
- Gillfillan, C. (See Kale and Gillfillan.)
- Gilkerson, G. T. (See Corson and Gilkerson.)
- Gilkerson, J. S., Roseburg, Oreg. Window-cleaner and safety-platform. No. 920,452; May 4; Sp. p. 734; Gaz. vol. 142; p. 117.
- Gill, C. C., Indianapolis, Ind. Ticket-holder. No. 912,110; Feb. 9; Sp. p. 2227; Gaz. vol. 139; p. 385.
- Gill, C. H., assignor of one-fourth to R. O. Randall, Chicago, and one-fourth to R. Richey, Stronghurst, Ill. Adding attachment for typewriters. No. 924,759; June 15; Sp. p. 3580; Gaz. vol. 143; p. 615.
- Gill, C. W., Syracuse, N. Y. Combined fastener and seal. No. 911,972; Feb. 9; Sp. p. 1941; Gaz. vol. 139; p. 340.
- Gill, E. R., Yonkers, N. Y., assignor to United States Electric Company. Self-answering signal system. No. 934,908; Sept. 21; Sp. p. 3878; Gaz. vol. 146; p. 674.
- Gill, H. L., *et al.* (See Anderson, J., assignor.)
- Gill, J., Edinburgh, Scotland. Curve-scriber. No. 922,575; May 25; Sp. p. 5103; Gaz. vol. 142; p. 905.
- Gill, J. A. (See Williams, W. G., assignor.)
- Gill, J. E., Franklin, Pa. Manufacture of lubricating compounds. No. 932,855; Aug. 31; Sp. p. 6822; Gaz. vol. 145; p. 1171.
- Gill, J. L., and C. W. Gates, Flint, assignors of one-third to W. J. Gill, Patton, Pa. Pick. No. 935,253; Sept. 28; Sp. p. 4581; Gaz. vol. 146; p. 815.
- Gill, S. E. (See Stewart, F. L., assignor.)
- Gill, T., Follansbee, W. Va. Means for hanging doors, screens, &c. No. 939,004; Nov. 2; Sp. p. 1194; Gaz. vol. 148; p. 191.
- Gill, T. E., Canton, Ohio. File. No. 944,730; Dec. 28; Sp. p. 5814; Gaz. vol. 149; p. 1006.
- Gill, W. F., New York, N. Y. Advertising apparatus. No. 908,854; Jan. 5; Sp. p. 875; Gaz. vol. 138; p. 138.
- Gill, W. H. (See Jones and Gill.)
- Gill, W. J. (See Gill and Gates, assignors.)
- Gillam, A. C., Hicksville, Ohio. Wheel. No. 936,994; Oct. 12; Sp. p. 2877; Gaz. vol. 147; p. 481.
- Gillard, A. H. (See Atwood, L., assignor.)
- Gillard, J. A., Winton, Minn. Sawmill-nigger. No. 913,640; Feb. 23; Sp. p. 5439; Gaz. vol. 139; p. 957.
- Gilleen, R. H., Bayonne, N. J., assignor to General Chemical Company, New York, N. Y. Carboy-package. No. 937,235; Oct. 19; Sp. p. 3410; Gaz. vol. 147; p. 590.
- Gillelan, J. T., *et al.* (See Gross, A. R., assignor.)
- Gillespie, A. J., Atlantic, Iowa, assignor to U. S. Standard Voting Machine Company, Rochester and Jamestown, N. Y. Lock-out for voting-machines. No. 933,427; Sept. 7; Sp. p. 876; Gaz. vol. 146; p. 137.
- Gillespie, A. J., Atlantic, Iowa, assignor to U. S. Standard Voting Machine Company, Rochester and Jamestown, N. Y. Indorsing device for voting-machines. No. 933,428; Sept. 7; Sp. p. 877; Gaz. vol. 146; p. 137.
- Gillespie, C. B., Ridgeville Corners, Ohio. Continuous-film kinetoscope. No. 921,537; May 11; Sp. p. 2957; Gaz. vol. 142; p. 509.
- Gillespie, C. B., Ridgeville Corners, Ohio. Continuous-film kinetoscope. No. 928,443; July 20; Sp. p. 3636; Gaz. vol. 144; p. 640.
- Gillespie, D. L., *et al.* (See Wright, W. J., assignor.)
- Gillespie, E. L., Seattle, Wash. Car-gate. No. 919,711; Apr. 27; Sp. p. 5902; Gaz. vol. 141; p. 1013.
- Gillespie, I. G., Oak Harbor, Ohio. Ice-cutting machine. No. 942,898; Dec. 14; Sp. p. 1842; Gaz. vol. 149; p. 325.
- Gillespie, O. H., Madison, Nebr. Flexible road-drag. No. 919,428; Apr. 27; Sp. p. 5300; Gaz. vol. 141; p. 917.
- Gillespie, O. H., Madison, Nebr. Basket-handle. No. 935,364; Sept. 28; Sp. p. 4810; Gaz. vol. 146; p. 850.
- Gillet, J. J., Aix-la-Chapelle, Germany. Card-clothing. No. 944,031; Dec. 21; Sp. p. 4304; Gaz. vol. 149; p. 742.
- Gillett, D. C., *et al.* (See Scofield, W. P., assignor.)
- Gillett, E. H. J. C. (See Smith and Gillett.)
- Gillett, L. T., Claremont, and S. J. Urey, Ontario, Cal. Device for coupling and uncoupling sectional metallic pipe-lines. No. 921,973; May 18; Sp. p. 3882; Gaz. vol. 142; p. 679.
- Gillett, M. E., *et al.* (See Scofield, W. P., assignor.)
- Gillett, W. L., assignor of one-half to W. D. Ellingsworth, Sunshine, Colo. Window. No. 935,199; Sept. 28; Sp. p. 4476; Gaz. vol. 146; p. 796.
- Gillette, G. H., New York, N. Y. Tire. No. 929,418; July 27; Sp. p. 5640; Gaz. vol. 144; p. 990.
- Gillette, G. H., New York, N. Y., assignor to Crown Cork and Seal Company, Baltimore, Md. Making bottle-seals. No. 934,399; Sept. 14; Sp. p. 2880; Gaz. vol. 146; p. 481.
- Gillette, H., Chicago, Ill. Electrically-operated clock. No. 933,899; Sept. 14; Sp. p. 1909; Gaz. vol. 146; p. 315.
- Gillette, H. B. (See Neal and Gillette.)
- Gillette Safety Razor Company. (See Boyce, H. H., assignor.)
- Gillette Safety Razor Company. (See Edmonds, F. M., assignor.)
- Gillette-Vibber Co. (See Vibber, W. H., assignor.)
- Gilliam Manufacturing Company. (See Wesp, E., assignor.)



*Alphabetical list of patentees—Continued*

- Gillie, J. W., North Shields, England. Depth-recorder. No. 928,191; July 13; Sp. p. 3082; Gaz. vol. 144; p. 524.
- Gillies, A., Heidelberg, Victoria, Australia. Pulsating teat-cups. No. 918,438; Apr. 13; Sp. p. 2992; Gaz. vol. 141; p. 526.
- Gillies, J. (See McPhee and Gillies.)
- Gillies, J., New York, N. Y. Stone-saw. No. 938,473; Nov. 2; Sp. p. 38; Gaz. vol. 148; p. 9.
- Gillies, J. S., assignor to Philippine Hemp Machine Company, Manila, Philippine Islands. Defibrating-machine. No. 936,995; Oct. 12; Sp. p. 2879; Gaz. vol. 147; p. 481.
- Gillies, N., Holyoke, Mass. Slot-machine. No. 914,344; Mar. 2; Sp. p. 1458; Gaz. vol. 140; p. 227.
- Gilliland, J. F., assignor to G. J. Schade, Sandusky, Ohio. Joint for wire fences or reinforcing fabrics. No. 935,905; Oct. 5; Sp. p. 653; Gaz. vol. 147; p. 95.
- Gillin, S. W. (See McKennan, Parks, and Gillin.)
- Gillinder and Sons. (See Booth, K., assignor.)
- Gillmore, H. G., Bath, Me. Rail-joint. No. 909,177; Jan. 12; Sp. p. 1540; Gaz. vol. 138; p. 278.
- Gillon, J. H., Waveross, Ga. Combination flue-plug and ferrule. No. 936,444; Oct. 12; Sp. p. 1792; Gaz. vol. 147; p. 297.
- Gilman, G. H., St. Paul, Minn., assignor to Transom Draft Gear Company, St. Louis, Mo. Emergency draft-gear attachment for railway-cars. No. 926,733; July 6; Sp. p. 29; Gaz. vol. 144; p. 7.
- Gilman, J. H., Kalamazoo, Mich. Transom. No. 924,656; June 15; Sp. p. 3361; Gaz. vol. 143; p. 579.
- Gilman, J. H., Kalamazoo, Mich. Transom-pivot. No. 929,584; July 27; Sp. p. 5932; Gaz. vol. 144; p. 1043.
- Gilman, J. H., assignor to King & Hamilton Company, Ottawa, Ill. Conveying apparatus. No. 913,948; Mar. 2; Sp. p. 605; Gaz. vol. 140; p. 96.
- Gilman, J. H., assignor to King & Hamilton Company, Ottawa, Ill. Lifting apparatus. No. 938,755; Nov. 2; Sp. p. 656; Gaz. vol. 148; p. 104.
- Gilman, J. R., Louisville, Ky. Ratchet-drill. No. 919,712; Apr. 27; Sp. p. 903; Gaz. vol. 141; p. 1013.
- Gilman, L. F., Sacramento, Cal. Apparatus for mining gold at the bottoms of flowing streams. No. 916,859; Mar. 30; Sp. p. 6458; Gaz. vol. 140; p. 1154.
- Gilmore, A. C., assignor to J. H. Peirce, trustee, Chicago, Ill. Automatic telegraph and selective system therefor. No. 931,055; Aug. 17; Sp. p. 3004; Gaz. vol. 145; p. 530.
- Gilmore, A. R., St. Louis county, Mo. Flushing-tank. No. 912,665; Feb. 16; Sp. p. 3387; Gaz. vol. 139; p. 607.
- Gilmore, C. B., Springfield, assignor of one-half to J. F. White, Bloomington, Ill. Bit-stock. No. 919,156; Apr. 20; Sp. p. 4530; Gaz. vol. 141; p. 792.
- Gilmore, C. N., Cincinnati, Ohio. Nut-locking mechanism. No. 920,947; May 11; Sp. p. 1748; Gaz. vol. 142; p. 310.
- Gilmore, C. T., Chicago, Ill. Drying apparatus. No. 929,299; July 27; Sp. p. 5402; Gaz. vol. 144; p. 950.
- Gilmore, E. E., Philadelphia, Pa. Overhead switch for electric railways. No. 944,131; Dec. 21; Sp. p. 4517; Gaz. vol. 149; p. 775.
- Gilmore, E. E., Philadelphia, Pa. Overhead construction for electric railways. No. 944,186; Dec. 21; Sp. p. 4616; Gaz. vol. 149; p. 792.
- Gilmore, F. M., and M. H. Mulkey, Seattle, Wash. Crown-branding attachment for bottling-machines. No. 909,396; Jan. 12; Sp. p. 1949; Gaz. vol. 133; p. 343.
- Gilmore, G. J., Chicago, Ill. Lens-shield for moving-picture machines. No. 925,326; June 15; Sp. p. 4698; Gaz. vol. 143; p. 802.
- Gilmore, L. C., Gardena, Cal. Gas-generator. No. 944,856; Dec. 28; Sp. p. 6107; Gaz. vol. 149; p. 1049.
- Gilmore, M. and N. L., Phoenixville, Pa. Bath-tub attachment. No. 919,848; Apr. 27; Sp. p. 6204; Gaz. vol. 141; p. 1059.
- Gilmore, N. L. (See Gilmore, M. and N. L.)
- Gilmore, W. J. (See Heckman, J. C., assignor.)
- Gilmore, W. M., Alva, Okla. Rack. No. 923,274; May 18; Sp. p. 4489; Gaz. vol. 142; p. 779.
- Gilmour, B. P., and T. R. Possolt, West Terre Haute, Ind. Railway-frog. No. 916,299; Mar. 23; Sp. p. 5353; Gaz. vol. 140; p. 949.
- Gilmour, J., Owensboro, Ky. Machine for making casks. No. 920,730; May 4; Sp. p. 1302; Gaz. vol. 142; p. 210.
- Gilmour, J., Owensboro, Ky. Device for applying hoops to casks. No. 920,731; May 4; Sp. p. 1304; Gaz. vol. 142; p. 210.
- Gilroy, F. J., Buffalo, N. Y. Tie-tamper. No. 917,860; Apr. 13; Sp. p. 1797; Gaz. vol. 141; p. 330.
- Gilroy, F. J., Buffalo, N. Y. Device for securing car-doors. No. 924,160; June 8; Sp. p. 2322; Gaz. vol. 143; p. 381.
- Gilroy, F. J., Buffalo, N. Y. Brake-controlled car-door securer. No. 925,433; June 15; Sp. p. 4902; Gaz. vol. 143; p. 836.
- Gilroy, W. E., Utica, N. Y. Moving-machine. No. 927,460; July 6; Sp. p. 1544; Gaz. vol. 144; p. 254.
- Gilsdorf, G. J. (See Rheinfraank and Gilsdorf.)
- Gilson, C., Pittsburg, Pa., assignor to Westinghouse Machine Company. Turbine-blade-holding means. No. 941,411; Nov. 30; Sp. p. 6565; Gaz. vol. 148; p. 1113.
- Gilson, D. H., Rushville, Ind. Excavating apparatus. No. 910,055; Jan. 19; Sp. p. 3268; Gaz. vol. 138; p. 602.
- Gilson & Fleddermann. (See Gibson, W., assignor.)
- Gilson, G. T., Lewiston, Idaho. Baby-jumper. No. 921,394; May 11; Sp. p. 2687; Gaz. vol. 142; p. 461.
- Gilson, H. A., and W. B. Beattie, Boston, Mass. Automatic latch for automatic elevator-gates. No. 931,693; Aug. 17; Sp. p. 4365; Gaz. vol. 145; p. 741.
- Gilson, H. R., Needham, assignor of one-third to F. B. Priest, Littleton, and one-third to H. W. Knights, Brookline, Mass. Mechanism for cracking nuts. No. 928,958; July 27; Sp. p. 4662; Gaz. vol. 144; p. 837.
- Gilson, M. R., Philadelphia, Pa. Telephone-repeater. No. 930,854; Aug. 10; Sp. p. 2530; Gaz. vol. 145; p. 437.
- Gilson, S. H., assignor of one-half to J. S. Milner, Salt Lake City, Utah. Aeromotor. No. 933,548; Sept. 7; Sp. p. 1206; Gaz. vol. 146; p. 176.
- Gilson, W. C., Chicago, Ill. Trunk-tray form. No. 918,311; Apr. 13; Sp. p. 2739; Gaz. vol. 141; p. 486.
- Gimbel, C. S., Antonio, Tex. Barrel-swing for store-counters. No. 943,871; Dec. 21; Sp. p. 3947; Gaz. vol. 149; p. 686.
- Gimonet, A. (See Utard and Gimonet.)
- Gin, G., Paris, and V. Courteuisse, Lille, France; said Courteuisse assignor to said Gin. Electric process for gassing threads. No. 918,439; Apr. 13; Sp. p. 2995; Gaz. vol. 141; p. 526.
- Gin, G., Paris, and V. Courteuisse, Lille, France; said Courteuisse assignor to said Gin. Device for singeing threads. No. 923,425; June 1; Sp. p. 706; Gaz. vol. 143; p. 104.
- Ginaca, H. G. (See Dyer and Ginaca.)
- Gindlesperger, B. F., Garrett, Pa. Window-shade hanger. No. 941,987; Nov. 30; Sp. p. 7754; Gaz. vol. 148; p. 1306.
- Gindorf, B. C., New York, N. Y. Brush-bridle. No. 927,232; July 6; Sp. p. 1100; Gaz. vol. 144; p. 178.
- Ginet, J. H., Jr., Denver, Colo. Adding-machine. No. 932,462; Aug. 31; Sp. p. 5975; Gaz. vol. 145; p. 1040.
- Gingerich, A. C. (See McReynolds, E. A., assignor.)
- Gingrich, E. C., Toulon, Ill. Post-box signal. No. 918,530; Apr. 20; Sp. p. 3191; Gaz. vol. 141; p. 585.
- Gingrich, H. S., Pine Bluff, Ark. Table-leg fastener. No. 918,665; Apr. 20; Sp. p. 3541; Gaz. vol. 141; p. 631.
- Ginn, B. F., Lenox, Iowa. Tire-armor. No. 940,591; Nov. 16; Sp. p. 4761; Gaz. vol. 148; p. 793.
- Ginn, P. H., Middleton, Ga. Rail-joint support. No. 920,128; May 4; Sp. p. 79; Gaz. vol. 142; p. 11.
- Ginnel, F. A., McKeesport, Pa. Metallic tie and rail-fastener. No. 944,857; Dec. 28; Sp. p. 6109; Gaz. vol. 149; p. 1049.
- Ginnel, H. (See Arthur, C., assignor.)
- Ginnel, H., Garden City, N. Y. Massage apparatus. No. 908,855; Jan. 5; Sp. p. 877; Gaz. vol. 138; p. 139.
- Ginnel, H., Garden City, N. Y. Cuff-button. No. 942,635; Dec. 7; Sp. p. 1258; Gaz. vol. 149; p. 206.
- Ginnever, F. O., Los Angeles, Cal. Corset. No. 913,883; Mar. 2; Sp. p. 454; Gaz. vol. 140; p. 74.
- Gins, S. (See Peters and Gins.)
- Gins, S., and E. Feldman, Monessen, Pa. Rail-joint. No. 920,047; Apr. 27; Sp. p. 6607; Gaz. vol. 141; p. 1124.
- Gins, S., and W. Peters, Monessen, Pa. Nut-lock. No. 926,696; June 29; Sp. p. 7476; Gaz. vol. 143; p. 1318.
- Ginsburg, M., Philadelphia, Pa. Interchangeable letter-embossing die. No. 921,974; May 18; Sp. p. 3884; Gaz. vol. 142; p. 680.
- Ginter, H. E. (See Haag, J., assignor.)
- Giolitti, F., Rome, assignor to Società Anonima Italiana Gio. Ansaldo Armstrong & C., Genoa, Italy. Furnace for the cementation of iron, steel, and alloys of steel. No. 933,642; Sept. 7; Sp. p. 1379; Gaz. vol. 146; p. 207.
- Giolitti, F., Rome, assignor to Società Anonima Italiana Gio. Ansaldo Armstrong & C., Genoa, Italy. Manufacture of armor-plates and other articles of steel and alloys of steel. No. 936,315; Oct. 12; Sp. p. 1471; Gaz. vol. 147; p. 254.
- Giorgi, G., assignor of one-third to E. G. Gollo and one-third to M. Ferrero, Rome, Italy. Railway-traction. No. 924,056; June 8; Sp. p. 2076; Gaz. vol. 143; p. 346.
- Girard, A. G., Woodstock, Vt., assignor to R. J. Blitz, Worcester, Mass. Ironing-board. No. 934,985; Sept. 21; Sp. p. 4043; Gaz. vol. 146; p. 702.
- Girard, A. L., Lincoln, Nebr. Double bearing for bicycle sprockets and crank-shafts. No. 921,100; May 11; Sp. p. 2060; Gaz. vol. 142; p. 362.
- Girard, L. B., assignor to Girard Manufacturing Company, Los Angeles, Cal. Window-shade tack. No. 942,321; Dec. 7; Sp. p. 625; Gaz. vol. 149; p. 99.
- Girard Manufacturing Company. (See Girard, L. B., assignor.)
- Girardot, C., Fort Wayne, Ind. Nut-lock. No. 931,409; Aug. 17; Sp. p. 3781; Gaz. vol. 145; p. 653.
- Giraud, E., Paris, France. Safety device for overhead electric conductors. No. 940,525; Nov. 16; Sp. p. 4623; Gaz. vol. 148; p. 771.
- Girdany, M. L. J., Boston, Mass. Ear-ring. No. 943,185; Dec. 14; Sp. p. 2481; Gaz. vol. 149; p. 421.
- Girdany, M. L. J., New York, N. Y. Ear-ring. No. 943,186; Dec. 14; Sp. p. 2482; Gaz. vol. 149; p. 421.

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- Girdler, L. T. (See French and Girdler.)
- Girod, P., Ugene, France. Electric furnace for metallurgical purposes. No. 921,228; May 11; Sp. p. 2319; Gaz. vol. 142; p. 407.
- Giron, P., Paris, France. Apparatus for charging capsules with liquefied gas. No. 913,656; Feb. 23; Sp. p. 5463; Gaz. vol. 139; p. 962.
- Giroud, A. F., Leominster, and F. A. Perron, Fitchburg, Mass. Window-fixture. No. 925,893; June 22; Sp. p. 5891; Gaz. vol. 143; p. 1018.
- Giroud, F., New York, N. Y. Automobile movable advertising apparatus. No. 917,584; Apr. 6; Sp. p. 1218; Gaz. vol. 141; p. 213.
- Giroud, F., New York, N. Y. Machine for cutting paper-box blanks. No. 924,607; June 8; Sp. p. 3252; Gaz. vol. 143; p. 530.
- Giroud, F., New York, N. Y. Package-wrapping machine. No. 942,636; Dec. 7; Sp. p. 1259; Gaz. vol. 149; p. 206.
- Giroud, F. G., New York, N. Y. Secondary electric clock. No. 917,047; Apr. 6; Sp. p. 174; Gaz. vol. 141; p. 33.
- Girtanner, F., assignor to Laclede Christy Clay Products Co., St. Louis, Mo. Arch for furnaces. No. 910,809; Jan. 26; Sp. p. 4880; Gaz. vol. 138; p. 381.
- Girtanner, F., assignor to Laclede-Christy Clay Products Company, St. Louis, Mo. Furnace-grate. No. 941,572; Nov. 30; Sp. p. 6885; Gaz. vol. 148; p. 1165.
- Gisselsius, B., Berlin, Germany. Producing printing-plates. No. 913,280; Feb. 23; Sp. p. 4653; Gaz. vol. 139; p. 835.
- Gisholt Machine Company. (See Johnson, H. S., assignor.)
- Gisholt Machine Company. (See Libby, C. L., assignor.)
- Gisriel, J. W., Baltimore, Md. Cable-stripping machine. No. 923,426; June 1; Sp. p. 709; Gaz. vol. 143; p. 105.
- Gitchell, L. O., New York, N. Y. Combined sock and garter. No. 942,552; Dec. 7; Sp. p. 1096; Gaz. vol. 149; p. 178.
- Gitterman, A. N., New York, N. Y. Chance device. No. 933,429; Sept. 7; Sp. p. 879; Gaz. vol. 146; p. 137.
- Giusto, N., New York, N. Y. Plow. No. 911,229; Feb. 2; Sp. p. 409; Gaz. vol. 139; p. 71.
- Given, J. W., Sutton, and J. L. Fogg, Bealls Mills, W. Va.; said Fogg assignor to said Given. Feed-water regulator. No. 935,651; Oct. 5; Sp. p. 51; Gaz. vol. 147; p. 10.
- Givens, G. C., Pea Ridge, assignor of one-fourth to J. P. Brown, Rogers, Ark. Beefsteak-tenderer. No. 916,145; Mar. 23; Sp. p. 5075; Gaz. vol. 140; p. 899.
- Givens, J. W., Salina, Kans. Letter-holder. No. 937,593; Oct. 19; Sp. p. 4168; Gaz. vol. 147; p. 709.
- Givulinovich, L., Seattle, Wash. Automatic safety-brake for elevators. No. 935,200; Sept. 28; Sp. p. 4478; Gaz. vol. 146; p. 797.
- Gizzi, F. P., *et al.* (See Ferrari, P., assignor.)
- Glackin, E. J., Chicago, Ill. Attachment for radiators. No. 928,255; July 20; Sp. p. 3247; Gaz. vol. 144; p. 576.
- Gladding, J. G., Providence, R. I. Water-gate. No. 937,368; Oct. 19; Sp. p. 3674; Gaz. vol. 147; p. 633.
- Gladding, R. S., Beverly, Mass. Ferrule. No. 933,750; Sept. 14; Sp. p. 1623; Gaz. vol. 146; p. 267.
- Glandt, C. W., Bennington, Nebr. Live-stock-watering tank. No. 917,427; Apr. 6; Sp. p. 938; Gaz. vol. 141; p. 163.
- Glantzberg, E., New Britain, Conn. Rotary fan. No. 925,327; June 15; Sp. p. 4699; Gaz. vol. 143; p. 802.
- Glanville, J. O., assignor of one-half to W. C. Capen, St. Louis, Mo. Salvage-wagon. No. 908,660; Jan. 5; Sp. p. 499; Gaz. vol. 138; p. 78.
- Glanz, J., Hartford, Conn. Pneumatic-tire plug. No. 931,056; Aug. 17; Sp. p. 3021; Gaz. vol. 145; p. 531.
- Glascoc, A. D., Charlotte, N. C. Attachment for hats. No. 936,117; Oct. 5; Sp. p. 1088; Gaz. vol. 147; p. 166.
- Glase, C. J., Boston, Mass. Means for tanning and depilating hides and skins. No. 931,858; Aug. 24; Sp. p. 4724; Gaz. vol. 145; p. 818.
- Glase, C. J., South Boston, Mass., assignor, by mesne assignments, to L. Behre, Hanover, Germany. Automatic hide-tanning machine. No. 922,416; May 18; Sp. p. 4756; Gaz. vol. 142; p. 825.
- Glaser, A. F., Jersey City, and J. Olsen, Whippany, assignors of one-third to G. W. Crane, Rahway, N. J. Resilient wheel. No. 912,305; Feb. 16; Sp. p. 2641; Gaz. vol. 139; p. 435.
- Glaser, C., Baltimore, Md. Producing camphene. No. 923,967; June 8; Sp. p. 1911; Gaz. vol. 143; p. 319.
- Glaser, C., Baltimore, Md. Making camphor. (Reissue.) No. 13,001; Aug. 3; Sp. p. 1433; Gaz. vol. 145; p. 238.
- Glaser, E. (See Kaiser, C. A., assignor.)
- Glaser, F. G. (See Dunn and Glaser.)
- Glaser, L., Berlin, Germany, assignor to General Electric Company. Obtaining nitric acid from gas mixtures containing oxides of nitrogen. No. 921,975; May 18; Sp. p. 3886; Gaz. vol. 142; p. 630.
- Glaser, R., New York, N. Y. Combined fountain and aquarium. No. 919,157; Apr. 20; Sp. p. 4532; Gaz. vol. 141; p. 792.
- Glaser, R., Haledon, and R. Myers, Wayne township, Passaic county, N. J. Toy. No. 922,416; May 18; Sp. p. 4759; Gaz. vol. 142; p. 825.
- Glasford, S. T., Danvers, Ill. Crutch. No. 923,352; June 1; Sp. p. 564; Gaz. vol. 143; p. 81.
- Glasner, A. H., *et al.* (See Sieben, H., assignor.)
- Glaserud, C. G. (See Brand and Glaserud.)
- Glaserud, H. A., and J. Anderson, Hatton; said Glaserud assignor to O. T. Petterson, Northwood, N. D. Wheel. No. 914,942; Mar. 9; Sp. p. 2680; Gaz. vol. 140; p. 449.
- Glass, A. L., Hopkins, Mo. Hen's nest. No. 912,465; Feb. 16; Sp. p. 2970; Gaz. vol. 139; p. 538.
- Glass, F., assignor of one-half to L. F. Bannon, Kingston, N. Y. Valve. No. 927,348; July 6; Sp. p. 1300; Gaz. vol. 144; p. 215.
- Glass, G. G., Hoopston, Ill. Machine employed in canning operations. No. 909,582; Jan. 12; Sp. p. 2320; Gaz. vol. 138; p. 411.
- Glass, P. R., assignor to Peerless Machinery Company, Boston, Mass. Skiving-machine. No. 924,657; June 15; Sp. p. 3363; Gaz. vol. 143; p. 580.
- Glass, P. R., Quincy, Mass., assignor, by mesne assignments, to Manufacturers Machine Company, Montclair, N. J. Slugging-machine for boots and shoes. No. 935,492; Sept. 28; Sp. p. 5043; Gaz. vol. 146; p. 891.
- Glass, P. R., Quincy, Mass., assignor, by mesne assignments, to Manufacturers Machine Company, Montclair, N. J. Automatic clench-nailer. No. 938,474; Nov. 2; Sp. p. 40; Gaz. vol. 148; p. 9.
- Glass, P. T., Corona, Cal. Solar water-heater. No. 921,976; May 18; Sp. p. 3887; Gaz. vol. 142; p. 630.
- Glassberg, M., Minneapolis, Minn. Dripping-pan for ice-boxes. No. 931,751; Aug. 24; Sp. p. 4508; Gaz. vol. 145; p. 784.
- Glassford, J., Jersey City, N. J., assignor to Consolidated Waterproof Company, New York, N. Y. Waterproof material. No. 921,538; May 11; Sp. p. 2959; Gaz. vol. 142; p. 509.
- Glastre, A. P. (See Jones and Glastre.)
- Glatf, J. H., Rochester, N. Y. Cigar-moistener. No. 911,392; Feb. 2; Sp. p. 720; Gaz. vol. 139; p. 124.
- Glauber, J. H., Cleveland, Ohio. Supply-pipe connection for bath-cocks. No. 922,471; May 25; Sp. p. 4891; Gaz. vol. 142; p. 871.
- Glauber, J. H., Cleveland, Ohio. Index for faucets. No. 922,576; May 25; Sp. p. 5105; Gaz. vol. 142; p. 906.
- Glauber, J. H., Cleveland, Ohio. Finishing shell or member. No. 923,164; June 1; Sp. p. 93; Gaz. vol. 143; p. 15.
- Glauber, J. H., Cleveland, Ohio. Faucet. No. 923,378; July 20; Sp. p. 3502; Gaz. vol. 144; p. 619.
- Glauber, J. H., Cleveland, Ohio. Seating-washer for cocks. No. 928,599; July 20; Sp. p. 3959; Gaz. vol. 144; p. 690.
- Glauber, J. H., Cleveland, Ohio. Stop and waste cock or valve. No. 937,678; Oct. 19; Sp. p. 4318; Gaz. vol. 147; p. 736.
- Glazier, C. H., *et al.* (See Gibson, O., assignor.)
- Glazier, R. C. (See Moore and Glazier.)
- Glazier, W. A., Etowah, Tenn. Swimming appliance. No. 941,244; Nov. 23; Sp. p. 6178; Gaz. vol. 148; p. 1036.
- Gleason, A. H. (See Young and Gleason.)
- Gleason, E. D., Philadelphia, assignor to F. W. Lange, Scranton, Pa. Reinforcing mantles of refractory incandescing earths. No. 931,920; Aug. 24; Sp. p. 4387; Gaz. vol. 145; p. 838.
- Gleason, F. J., Walpole, Mass., assignor of one-half to A. T. Baldwin, Buffalo, N. Y. Making hollow rubber articles. No. 910,370; Jan. 19; Sp. p. 3956; Gaz. vol. 138; p. 712.
- Gleason, F. J., assignor to Massachusetts Chemical Company, Walpole, Mass. Coating leather with fabric. No. 921,229; May 11; Sp. p. 2321; Gaz. vol. 142; p. 407.
- Gleason, F. J., assignor to Massachusetts Chemical Company, Walpole, Mass. Method of treating fabrics to render them adhesive. No. 925,894; June 22; Sp. p. 5393; Gaz. vol. 143; p. 1018.
- Gleason, F. J., Walpole, Mass., assignor of one-half to A. T. Baldwin, Buffalo, N. Y. Making rubber hose. No. 935,254; Sept. 28; Sp. p. 4582; Gaz. vol. 146; p. 815.
- Gleason, F. L. (See Palmer, I. J., assignor.)
- Gleason, H. F., assignor to Kansas City Vehicle Co., Kansas City, Mo. Short-turn vehicle. No. 915,344; Mar. 16; Sp. p. 3480; Gaz. vol. 140; p. 607.
- Gleason, H. M., Philadelphia, Pa. Mechanism for operating water-tight bulkhead-doors. No. 926,111; June 29; Sp. p. 6332; Gaz. vol. 143; p. 1124.
- Gleason, H. M., Philadelphia, Pa. Hatch-operating mechanism. No. 933,070; Sept. 7; Sp. p. 65; Gaz. vol. 146; p. 11.
- Gleason, H. M., Philadelphia, Pa. Projectile. No. 939,682; Nov. 9; Sp. p. 2727; Gaz. vol. 148; p. 451.
- Gleason, I. W. (See Kennedy and Gleason.)
- Gleason, J., Green Bay, Wis. Double-acting deep-well pump. No. 913,123; Feb. 23; Sp. p. 4332; Gaz. vol. 139; p. 783.
- Gleason, J. M. (See Jackboice and Gleason.)
- Gleason, T. M., Racine, Wis. Cock. No. 912,466; Feb. 16; Sp. p. 2971; Gaz. vol. 139; p. 538.
- Gleason, W. J., Zechenelly, and A. L. Blum, New Orleans, La. Sewer-plug. No. 922,275; May 18; Sp. p. 4491; Gaz. vol. 142; p. 779.
- Gleasure, G. J., Brooklyn, N. Y. Match-box. No. 922,472; May 25; Sp. p. 4893; Gaz. vol. 142; p. 871.
- Gleckner, J., *et al.* (See La Grotta, F., assignor.)
- Gledhill, B. H., Philadelphia, Pa. Pile or plush fabric. No. 912,666; Feb. 16; Sp. p. 3388; Gaz. vol. 139; p. 607.



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- Glaeson, T. D., New York, N. Y. Excavating and trenching machine. No. 937,066; Oct. 19; Sp. p. 3042; Gaz. vol. 147; p. 534.
- Glaeson, T. W., Boston, Mass. Relay. No. 941,709; Nov. 30; Sp. p. 7186; Gaz. vol. 148; p. 1211.
- Gleinich, A., Königs-Wusterhausen, assignor to Deutsche Waffen- und Munitionsfabriken, Berlin, Germany. Projectile for hand-fire-arms. (Reissue.) No. 12,927; Mar. 16; Sp. p. 4280; Gaz. vol. 140; p. 736.
- Glen, I., Trafford City, Pa. Mine-car brake. No. 923,262; June 1; Sp. p. 306; Gaz. vol. 143; p. 48.
- Glenn, J. C., Erie, Pa. Steam-engine valve. No. 936,773; Oct. 12; Sp. p. 2455; Gaz. vol. 147; p. 409.
- Glenn, J. S., West Covington, Ky. Drill-brace. No. 917,048; Apr. 6; Sp. p. 175; Gaz. vol. 141; p. 33.
- Glenn, T. J., Philadelphia, Pa. Nut-lock. No. 914,654; Mar. 9; Sp. p. 2086; Gaz. vol. 140; p. 354.
- Glenn, T. J., Philadelphia, Pa. Game apparatus. No. 914,655; Mar. 9; Sp. p. 2087; Gaz. vol. 140; p. 355.
- Glenn, W. G., Toronto, Ontario, Canada. Heater. No. 937,788; Oct. 26; Sp. p. 4574; Gaz. vol. 147; p. 792.
- Glessner, A. W. (See Scherer, G. A., assignor.)
- Gley, R., Berlin, Germany, and P. Dieterle, Lyon, France, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Brown sulfur dye. No. 934,302; Sept. 14; Sp. p. 2699; Gaz. vol. 146; p. 448.
- Gley, R., Berlin, Germany, and P. Dieterle, Lyon, France, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Olive sulfur dye. No. 934,303; Sept. 14; Sp. p. 2700; Gaz. vol. 146; p. 448.
- Glidden Varnish Company. (See Lawrence, A. L., assignor.)
- Glidden, W. W., Oak Park, Ill. Pipe-fitting. No. 918,843; Apr. 20; Sp. p. 3915; Gaz. vol. 141; p. 690.
- Glismann, E. C., *et al.* (See Savoie, J., assignor.)
- Glismann, J. H. (See Van Denburgh and Glismann.)
- Globe Brass Manufacturing Company. (See Schroeder, H. F., assignor.)
- Globe Fire Apparatus Company. (See Rankin, G. W., assignor.)
- Globe Optical Co. (See Wilhelm, L., assignor.)
- Globe Screw Company. (See Allen and Henry, assignors.)
- Globe Ticket Company. (See Osman, R. C., assignor.)
- Gloede, A., Suffern, N. Y. Cover for tobacco-pipes. No. 932,269; Aug. 24; Sp. p. 5598; Gaz. vol. 145; p. 955.
- Gloekler, J. E., Pittsburg, Pa. Air-cooling apparatus. No. 928,959; July 27; Sp. p. 4667; Gaz. vol. 144; p. 837.
- Gloekler, J. E., Pittsburg, Pa. Casing. No. 932,856; Aug. 31; Sp. p. 6824; Gaz. vol. 145; p. 1171.
- Gloekler, J. E., Pittsburg, Pa. Air-cooling apparatus. No. 944,086; Dec. 21; Sp. p. 4413; Gaz. vol. 149; p. 760.
- Gloekler, J. E., and A. B. Stahl, Pittsburg, Pa. Potato-masher. No. 930,070; Aug. 3; Sp. p. 941; Gaz. vol. 145; p. 152.
- Gloekler, J. E., and A. B. Stahl, Pittsburg, Pa. Vegetable-cutter. No. 944,087; Dec. 21; Sp. p. 4415; Gaz. vol. 149; p. 760.
- Glogner, R., Charlottenburg, Germany. Sectional boiler. No. 913,489; Feb. 23; Sp. p. 5072; Gaz. vol. 139; p. 906.
- Glogner, R., Charlottenburg, Germany. Excavator or dredger. No. 932,857; Aug. 31; Sp. p. 6825; Gaz. vol. 145; p. 1171.
- Glore, L., Chicago, Ill. Bed-spring. No. 917,585; Apr. 6; Sp. p. 1221; Gaz. vol. 141; p. 213.
- Glossa, R., assignor to Hallet & Davis Piano Co., Boston, Mass. Door for piano-players. No. 931,752; Aug. 24; Sp. p. 4509; Gaz. vol. 145; p. 784.
- Glosser, W. N., Decatur, Ill. Device for operating switches. No. 943,928; Dec. 21; Sp. p. 4081; Gaz. vol. 149; p. 707.
- Glover, A., Kingston-upon-Hull, England. Displaying device for boots, shoes, and like foot-coverings. No. 919,158; Apr. 20; Sp. p. 4533; Gaz. vol. 141; p. 793.
- Glover, C. A., Nashville, Tenn., and J. C. Hunter, Atlanta, Ga. Rotary duplicating-machine. No. 908,990; Jan. 5; Sp. p. 1156; Gaz. vol. 138; p. 183.
- Glover, D. H., assignor to Reed & Barton Corporation, Taunton, Mass. Box. No. 941,140; Nov. 23; Sp. p. 5955; Gaz. vol. 148; p. 1002.
- Glover, G. T., Chicago, Ill. Motor-vehicle. No. 926,938; July 6; Sp. p. 480; Gaz. vol. 144; p. 78.
- Glover, G. T., Chicago, Ill. Carburetor. No. 936,118; Oct. 5; Sp. p. 1087; Gaz. vol. 147; p. 166.
- Glover, H. M. R. (See Turner and Glover.)
- Glover, H. M. R., Rochester, N. Y. Adapter for photographic-film packs. No. 928,379; July 20; Sp. p. 3504; Gaz. vol. 144; p. 619.
- Gloystein, C. F., Henderson, Ky. Manufacture of concentrated tobacco extract. (Reissue.) No. 12,994; July 27; Sp. p. 6087; Gaz. vol. 144; p. 1064.
- Gluck, F. (See Richard and Gluck.)
- Gluckman, I., Minneapolis, Minn. Garbage-can. No. 926,864; July 6; Sp. p. 337; Gaz. vol. 144; p. 54.
- Gminder, E., Reutlingen, Germany. Treating fabrics with fluids. No. 924,979; June 15; Sp. p. 4045; Gaz. vol. 143; p. 689.
- Gminder, E., Reutlingen, Germany. Apparatus for treating fabrics with fluids. No. 943,632; Dec. 14; Sp. p. 3457; Gaz. vol. 149; p. 576.
- Gminer, C., Waupaca, Wis. Silo. No. 939,826; Nov. 9; Sp. p. 3034; Gaz. vol. 148; p. 500.
- Gmür, B., Schänis, Switzerland. Speed-changing mechanism. No. 912,559; Feb. 16; Sp. p. 3180; Gaz. vol. 139; p. 570.
- Gnekow, F. H., Bradley, Ill. Window-shelf. No. 933,643; Sept. 7; Sp. p. 1381; Gaz. vol. 146; p. 207.
- Go-Ro Manufacturing Company. (See Goreau, N. G., assignor.)
- Goat, L., Jr., and C. W. Hayes, Watertown, Ill. Machine for cutting keyways in shafts. No. 922,691; May 25; Sp. p. 5343; Gaz. vol. 142; p. 943.
- Goade, R. J., Allentown, Pa. Filter. No. 932,696; Aug. 31; Sp. p. 6502; Gaz. vol. 145; p. 1120.
- Goble, J. F. S., assignor to one-half to H. C. Boyer, New Albin, Iowa. Lever mechanism. No. 913,490; Feb. 23; Sp. p. 5073; Gaz. vol. 139; p. 906.
- Godard, D. M. (See Davis and Godard.)
- Goddard, A. C., assignor to J. F. Blanchard Co., New York, N. Y. Window. No. 908,856; Jan. 5; Sp. p. 878; Gaz. vol. 138; p. 139.
- Goddard, A. C., assignor to J. F. Blanchard Co., New York, N. Y. Gravity-lock for windows. No. 908,857; Jan. 5; Sp. p. 880; Gaz. vol. 138; p. 140.
- Goddard, A. C., assignor to J. F. Blanchard Co., New York, N. Y. Trim-fastening. No. 908,858; Jan. 5; Sp. p. 881; Gaz. vol. 138; p. 140.
- Goddard, A. C., assignor to J. F. Blanchard Co., New York, N. Y. Metal door. No. 918,142; Apr. 13; Sp. p. 2402; Gaz. vol. 141; p. 430.
- Goddard, E. S., Boise, Idaho. Toilet-cover. No. 909,885; Jan. 19; Sp. p. 2928; Gaz. vol. 138; p. 545.
- Goddard, E. S., Providence, R. I., assignor to Iron & Russell Company, Saco, Me. Charm and trimming. No. 937,932; Oct. 26; Sp. p. 4565; Gaz. vol. 147; p. 840.
- Goddard, F. L., Douglas, Alaska. Stretcher. No. 919,159; Apr. 20; Sp. p. 4535; Gaz. vol. 141; p. 793.
- Goddard, G. M., assignor of one-third to G. C. Thrall and one-third to Rutland Machine & Automobile Company, Rutland, Vt. Telegraph-transmitter. No. 939,683; Nov. 9; Sp. p. 2728; Gaz. vol. 148; p. 451.
- Goddard, G. N., Newton Center, assignor to American Tool & Machine Company, Boston, Mass. Centrifugal machine. No. 928,912; July 20; Sp. p. 4577; Gaz. vol. 144; p. 795.
- Goddard, G. N., Newton, assignor to American Tool & Machine Company, Boston, Mass. Centrifugal machine. No. 939,904; Nov. 9; Sp. p. 3201; Gaz. vol. 148; p. 527.
- Goddard, J., assignor to Seneca Camera Manufacturing Company, Rochester, N. Y. Photographic-plate holder. No. 925,895; June 22; Sp. p. 5894; Gaz. vol. 143; p. 1018.
- Goddard, R. H., Shelby, Ind. Folding crate. No. 934,156; Sept. 14; Sp. p. 2428; Gaz. vol. 146; p. 399.
- Goddard, W. T., assignor to Locke Insulator Manufacturing Company, Victor, N. Y. Insulating high-voltage transmission-lines. No. 911,973; Feb. 9; Sp. p. 1944; Gaz. vol. 139; p. 341.
- Goddu, G. (See Eaton and Goddu.)
- Goddu, G., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Eyeletting-machine. No. 934,066; Sept. 14; Sp. p. 2224; Gaz. vol. 146; p. 368.
- Goddu, L., Winchester, Mass., assignor to Goddu Sewing Machine Co., Portland, Me. Sole-sewing machine. No. 940,637; Nov. 16; Sp. p. 4852; Gaz. vol. 148; p. 808.
- Goddu Sewing Machine Co. (See Goddu, L., assignor.)
- Godfrey, A. F., Mexico, Mexico. Balloon or air-ship. No. 909,397; Jan. 12; Sp. p. 1953; Gaz. vol. 138; p. 343.
- Godfrey, A., Bradford, Mass. Heel-nailing machine. No. 916,948; Mar. 30; Sp. p. 6650; Gaz. vol. 140; p. 1185.
- Godfrey, A., Bradford, assignor to Automatic Brake Company, Haverhill, Mass. Vehicle-brake. No. 910,123; Jan. 19; Sp. p. 3401; Gaz. vol. 138; p. 624.
- Godfrey, A. T. (See Foulks, G. H., assignor.)
- Godfrey, E., Pittsburg, Pa. Reinforced-concrete retaining-wall. No. 915,590; Mar. 16; Sp. p. 3986; Gaz. vol. 140; p. 689.
- Godfrey, J. B., trustee. (See Barnett and Pickel, assignors.)
- Godfrey, L. S., Binger, Okla. Automatic grain-weigher. No. 941,633; Nov. 30; Sp. p. 7003; Gaz. vol. 148; p. 1185.
- Goding, A. (See Turnbull and Goding.)
- Godlewski, M., Chicago, Ill. Burnishing-machine. No. 914,943; Mar. 9; Sp. p. 2682; Gaz. vol. 140; p. 450.
- Godley, G. F., Philadelphia, Pa. Ore separating or concentrating apparatus. No. 941,634; Nov. 30; Sp. p. 7004; Gaz. vol. 148; p. 1185.
- Godman, E. J., Jersey City, N. J., assignor to Sterling Seal Company. Bottle-sealing machine. No. 920,048; Apr. 27; Sp. p. 6608; Gaz. vol. 141; p. 1124.
- Godman, E. J., and W. H. Niemeyer, Baltimore, Md., assignors to H. F. Griffith, Philadelphia, Pa. Machine for sealing bottles. No. 933,549; Sept. 7; Sp. p. 1208; Gaz. vol. 146; p. 176.

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- Goebel, B., Liege, Belgium. Semi-automatic firearm with cylindrical breech. No. 909,398; Jan. 12; Sp. p. 1954; Gaz. vol. 138; p. 343.
- Goebel, J. C., *et al.* (See Zierlein, R. W., assignor.)
- Goedeke, F. W., Evansville, Ind. Corner-iron for baskets, boxes, &c. No. 939,005; Nov. 2; Sp. p. 1196; Gaz. vol. 148; p. 191.
- Goehle, P. E., Sr., assignor of one-half to J. Killackey, Sault Ste. Marie, Mich. Valve. No. 921,230; May 11; Sp. p. 2323; Gaz. vol. 142; p. 407.
- Goehring, C. L., and W. Troche, Akron, Ohio; said Troche assignor to said Goehring. Beveling glass. No. 917,937; Apr. 13; Sp. p. 1969; Gaz. vol. 141; p. 358.
- Goehring, J. R., Philadelphia, Pa. Valve. No. 918,143; Apr. 13; Sp. p. 2404; Gaz. vol. 141; p. 431.
- Goehst, J. H. (See Ames and Goehst.)
- Goehst, J. H., assignor to Federal Electric Company, Chicago, Ill. Electrically-illuminated sign. No. 943,246; Dec. 14; Sp. p. 2610; Gaz. vol. 149; p. 442.
- Goeke, E., Rhodes, Iowa. Disinfectant-sprayer for animals. No. 932,858; Aug. 31; Sp. p. 6828; Gaz. vol. 145; p. 1172.
- Goeltz, H. C., St. Paul, Minn. Short center lid. No. 927,649; July 13; Sp. p. 1970; Gaz. vol. 144; p. 344.
- Goemaere, P., Detroit, Mich. Lawn-sprinkler. No. 933,900; Sept. 14; Sp. p. 1912; Gaz. vol. 146; p. 316.
- Goeringer, F., Wilkes-Barre, Pa. Carpet-sweeper. No. 924,342; June 8; Sp. p. 2723; Gaz. vol. 143; p. 443.
- Goeritz, O. C., San Francisco, Cal. Method of and apparatus for pumping fluids. No. 933,247; Sept. 7; Sp. p. 503; Gaz. vol. 146; p. 77.
- Goethel, A. C., Milwaukee, Wis. Transom-lifter. No. 938,475; Nov. 2; Sp. p. 46; Gaz. vol. 148; p. 10.
- Goetschel, L., Osage City, Mo. Calf-weaner. No. 930,470; Aug. 10; Sp. p. 1706; Gaz. vol. 145; p. 308.
- Goetting, G. M. W., Brookline, Mass. Storage battery. No. 939,006; Nov. 2; Sp. p. 1197; Gaz. vol. 148; p. 192.
- Goetz, J. F., Hartford, Wis. Lightning-rod. No. 938,137; Oct. 26; Sp. p. 5308; Gaz. vol. 147; p. 908.
- Goetze, F., Burscheid, Germany. Packing. No. 922,130; May 18; Sp. p. 4180; Gaz. vol. 142; p. 731.
- Goff, D., Millville, N. J. Boiler-feed and water-heater. No. 932,777; Aug. 31; Sp. p. 6683; Gaz. vol. 145; p. 1147.
- Goff, F. C., Denver, Colo. Pressure and vacuum steam-heating valve. No. 935,599; Sept. 28; Sp. p. 5290; Gaz. vol. 146; p. 928.
- Goff, F. C., Denver, Colo. Air-valve. No. 939,196; Nov. 2; Sp. p. 1596; Gaz. vol. 148; p. 258.
- Goff, L. S., *et al.* (See Runnion, A., assignor.)
- Goff, M. B., Dubois, Pa. Elevator brushing device. No. 932,981; Aug. 31; Sp. p. 7049; Gaz. vol. 145; p. 1212.
- Goff, S. B., Camden, N. J. Filter. No. 919,849; Apr. 27; Sp. p. 6205; Gaz. vol. 141; p. 1059.
- Goff, S. B., Camden, N. J. Device for affixing labels to bottles. No. 924,343; June 8; Sp. p. 2725; Gaz. vol. 143; p. 444.
- Goff, S. B., Camden, N. J. Bottle-filler. No. 924,344; June 8; Sp. p. 2726; Gaz. vol. 143; p. 444.
- Goffier, E., Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Steam-trap. No. 935,753; Oct. 5; Sp. p. 277; Gaz. vol. 147; p. 44.
- Goforth, C. F. and M. T., Wichita, Kans. Sewing-machine. No. 942,899; Dec. 14; Sp. p. 1845; Gaz. vol. 149; p. 325.
- Goforth, M. T. (See Goforth, C. F. and M. T.)
- Gogmin, A., Chicago, Ill. Lock and key for the same. No. 933,703; Sept. 7; Sp. p. 1514; Gaz. vol. 146; p. 228.
- Gohlke, M., assignor to Deutsche Waffen-und Munitionsfabriken, Berlin, Germany. Foot-step ball-bearing. No. 933,974; Sept. 14; Sp. p. 2060; Gaz. vol. 146; p. 339.
- Goho, R., Philadelphia, Pa. Metal-ceiling construction. No. 920,563; May 4; Sp. p. 953; Gaz. vol. 142; p. 155.
- Gohrig, H., Darmstadt, Germany. Superheater. No. 944,428; Dec. 28; Sp. p. 5141; Gaz. vol. 149; p. 902.
- Gohring, R., Hamburg, Germany. Perspectograph. No. 915,426; Mar. 16; Sp. p. 3647; Gaz. vol. 140; p. 635.
- Gohy, J., Ensalval, near Verviers, Belgium. Pattern-card for looms. No. 908,559; Jan. 5; Sp. p. 265; Gaz. vol. 138; p. 45.
- Gohy, J., Ensalval, near Verviers, Belgium. Pattern-card for looms. No. 909,078; Jan. 5; Sp. p. 1318; Gaz. vol. 138; p. 212.
- Goin, J. P., New York, N. Y. Hair-dressing frame. No. 929,848; Aug. 3; Sp. p. 484; Gaz. vol. 145; p. 77.
- Gold Car Heating & Lighting Company. (See Emerson, Hawkins, and Kitchen, assignors.)
- Gold, E. E., New York, N. Y. Safety-valve. No. 909,886; Jan. 19; Sp. p. 2929; Gaz. vol. 138; p. 545.
- Gold, E. E., New York, N. Y. Filling-valve. No. 913,949; Mar. 2; Sp. p. 608; Gaz. vol. 140; p. 97.
- Gold, E. E., New York, N. Y. Coupling. No. 913,950; Mar. 2; Sp. p. 610; Gaz. vol. 140; p. 97.
- Gold, E. E., New York, N. Y. Coupling. No. 924,161; June 8; Sp. p. 2324; Gaz. vol. 143; p. 381.
- Gold, E. E., New York, N. Y. Coupling. No. 924,608; June 8; Sp. p. 3255; Gaz. vol. 143; p. 531.
- Gold, E. H., Chicago, Ill. Three-way cock. No. 909,583; Jan. 12; Sp. p. 2324; Gaz. vol. 138; p. 412.
- Gold, E. H., Chicago, Ill. Low-pressure fluid-heating system. No. 912,467; Feb. 16; Sp. p. 2972; Gaz. vol. 139; p. 538.
- Gold, E. H., Chicago, Ill. Valve. No. 914,407; Mar. 9; Sp. p. 1610; Gaz. vol. 140; p. 274.
- Gold, E. H., Chicago, Ill. Low-pressure heating. No. 922,131; May 18; Sp. p. 4180; Gaz. vol. 142; p. 731.
- Gold, E. H., Chicago, Ill. Coupling. No. 922,132; May 18; Sp. p. 4184; Gaz. vol. 142; p. 732.
- Gold, E. H., Chicago, Ill. Duplex heating system. No. 923,968; June 8; Sp. p. 1913; Gaz. vol. 143; p. 319.
- Gold, E. H., Chicago, Ill. Valve. No. 925,692; June 22; Sp. p. 5429; Gaz. vol. 143; p. 950.
- Gold, E. H., Chicago, Ill. Convertible heating system. No. 925,896; June 22; Sp. p. 5897; Gaz. vol. 143; p. 1019.
- Gold, E. H., Chicago, Ill. Heating system. No. 926,734; July 6; Sp. p. 31; Gaz. vol. 144; p. 8.
- Gold, E. H., Chicago, Ill. Low-pressure fluid-heating system. No. 928,040; July 13; Sp. p. 2779; Gaz. vol. 144; p. 474.
- Gold, E. H., Chicago, Ill. Heating system. No. 928,041; July 13; Sp. p. 2783; Gaz. vol. 144; p. 474.
- Gold, E. H., Chicago, Ill. Heating system. No. 929,126; July 27; Sp. p. 5018; Gaz. vol. 144; p. 893.
- Gold, E. H., Chicago, Ill. Variable-volume heating system. No. 929,934; Aug. 3; Sp. p. 666; Gaz. vol. 145; p. 106.
- Gold, E. H., Chicago, Ill. Car-heating system. No. 931,595; Aug. 17; Sp. p. 4120; Gaz. vol. 145; p. 709.
- Gold, E. H., Chicago, Ill. Heating system. No. 944,187; Dec. 21; Sp. p. 4618; Gaz. vol. 149; p. 792.
- Gold, E. H., Chicago, Ill. Heating system. (Reissue.) No. 13,059; Dec. 21; Sp. p. 4737; Gaz. vol. 149; p. 812.
- Gold, E. H., Chicago, Ill. Adjustable supporting device for pipes. No. 944,731; Dec. 28; Sp. p. 5815; Gaz. vol. 149; p. 1006.
- Goldbach, G., Domsiau, Germany. Attachment for harness-traces. No. 926,249; June 29; Sp. p. 6638; Gaz. vol. 143; p. 1171.
- Goldberg, A., New York, N. Y. Attachment for wearing-apparel. No. 938,229; Oct. 26; Sp. p. 5510; Gaz. vol. 147; p. 941.
- Goldberg, H. (See Berzon and Goldberg.)
- Goldberg, J. S., assignor to Goldberg Motor Car Devices Manufacturing Company, Chicago, Ill. Carbureter. No. 928,042; July 13; Sp. p. 2786; Gaz. vol. 144; p. 475.
- Goldberg, J. S., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carbureter. No. 928,121; July 13; Sp. p. 2921; Gaz. vol. 144; p. 499.
- Goldberg, L. (See Friedlander, T., assignor.)
- Goldberg Motor Car Devices Manufacturing Company. (See Goldberg, J. S., assignor.)
- Goldberg, N., Philadelphia, Pa. Case for vacuum or other bottles. No. 936,119; Oct. 5; Sp. p. 1090; Gaz. vol. 147; p. 166.
- Goldberg, S. H., Chicago, Ill. Hair-pin holder. No. 940,801; Nov. 23; Sp. p. 5240; Gaz. vol. 148; p. 889.
- Golden-Anderson Valve Specialty Company. (See Anderson, E. V., assignor.)
- Golden, D. J., Randolph, Mass. Sporting-shoe. No. 938,843; Nov. 2; Sp. p. 841; Gaz. vol. 148; p. 135.
- Golden, G. W. (See MacLachan, J. D., assignor.)
- Golden, H. E., Dunbar, Pa. Indicator. No. 941,872; Nov. 30; Sp. p. 7538; Gaz. vol. 148; p. 1268.
- Golden, J. P., Columbus, Ga. Shaft-coupling. No. 934,160; Sept. 14; Sp. p. 2440; Gaz. vol. 146; p. 401.
- Golden, J. R., Spring Lake, Ill. Device for fastening belts. No. 938,049; Oct. 26; Sp. p. 5106; Gaz. vol. 147; p. 879.
- Golden, M. K., San Francisco, Cal. Power-transmitter. No. 931,010; Aug. 10; Sp. p. 2895; Gaz. vol. 145; p. 487.
- Golden, M. K., assignor to J. Jerome, San Francisco, Cal. Vibrator. No. 923,508; June 1; Sp. p. 883; Gaz. vol. 143; p. 134.
- Golden, M. K., assignor to J. Jerome, San Francisco, Cal. Electrical vibrator. No. 928,043; July 13; Sp. p. 2791; Gaz. vol. 144; p. 475.
- Goldenberg, A. (See Kaufmann and Goldenberg.)
- Goldentz, A., Defiance, Ohio. Delivery apparatus. No. 943,970; Dec. 21; Sp. p. 4162; Gaz. vol. 149; p. 721.
- Goldfarb, N. J., New York, assignor of one-half to A. Drusin, Brooklyn, N. Y. Adding-machine. No. 921,539; May 11; Sp. p. 2961; Gaz. vol. 142; p. 509.
- Goldie, W., Wilkinsburg, Pa. Metallic hoop. No. 908,460; Jan. 5; Sp. p. 52; Gaz. vol. 138; p. 11.
- Goldie, W., Wilkinsburg, Pa. Core-flour. No. 911,655; Feb. 9; Sp. p. 1263; Gaz. vol. 139; p. 237.
- Goldie, W., Wilkinsburg, Pa. Metallic hoop. No. 920,319; May 4; Sp. p. 472; Gaz. vol. 142; p. 74.
- Goldie, W., Wilkinsburg, Pa. Metallic hoop. No. 929,666; Aug. 3; Sp. p. 44; Gaz. vol. 145; p. 10.
- Goldie, W., Wilkinsburg, Pa., and W. Goldie, Jr., Bay City, Mich. Metallic tie. No. 933,833; Sept. 14; Sp. p. 1772; Gaz. vol. 146; p. 294.
- Goldie, W., Jr., Bay City, Mich. Tie-plate. No. 911,230; Feb. 2; Sp. p. 411; Gaz. vol. 139; p. 71.
- Goldkamp, F. J., San Diego, assignor of one-fourth to A. G. Nason, San Francisco, and one-fourth to C. W. Oesting, San Diego, Cal. Device for the manufacture of hollow objects. No. 934,666; Sept. 21; Sp. p. 3406; Gaz. vol. 146; p. 594.
- Goldman, Beckman & Co. (See Hochstuhli, J. G., assignor.)
- Goldman, D. and H. H., Detroit, Mich. Disinfecting money-drawer. No. 923,165; June 1; Sp. p. 94; Gaz. vol. 143; p. 16.
- Goldman, H. H. (See Goldman, D. and H. H.)
- Goldman, I. S., Los Angeles, Cal., assignor of one-half to L. S. Hackney, St. Paul, Minn. Lock. No. 927,139; July 6; Sp. p. 915; Gaz. vol. 144; p. 147.



*Alphabetical list of patentees—Continued.*

- Goldman, J. (See Hacker, E., assignor.)
- Goldman, M. I. Chase, Kans. Device for feeding milk to calves. No. 921,231; May 11; Sp. p. 2324; Gaz. vol. 142; p. 407.
- Goldman, S. L., assignor to E. Goldman & Co. Inc., Chicago, Ill. Ball-bearing for conveyer-rollers. No. 914,714; Mar. 9; Sp. p. 2233; Gaz. vol. 140; p. 375.
- Goldman, S. L., assignor to E. Goldman & Co., Inc., Chicago, Ill. Bottle-soaking machine. No. 920,564; May 4; Sp. p. 954; Gaz. vol. 142; p. 155.
- Goldman, S. S., assignor of one-fourth to C. J. Malecek, St. Louis, Mo. Trolley and support therefor. No. 931,292; Aug. 17; Sp. p. 3547; Gaz. vol. 145; p. 612.
- Goldner, S. (See Goldner, S. and S.)
- Goldner, S. and S., New York, N. Y. Hair-curler. No. 909,079; Jan. 5; Sp. p. 1320; Gaz. vol. 138; p. 212.
- Goldrick, H. C., Indianapolis, Ind., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Telephone-testing system. No. 911,231; Feb. 2; Sp. p. 414; Gaz. vol. 139; p. 71.
- Goldsborough, R. H., Washington, D. C. Turbine. No. 911,492; Feb. 2; Sp. p. 880; Gaz. vol. 139; p. 156.
- Goldsborough, W. E., La Fayette, Ind. Alternating-current motor. No. 921,826; May 18; Sp. p. 3578; Gaz. vol. 142; p. 633.
- Goldschmidt, A. L., New York, N. Y. Means for connecting circuit-wires to electric motors. No. 918,844; Apr. 20; Sp. p. 3917; Gaz. vol. 141; p. 690.
- Goldschmidt, A. L., New York, N. Y. Switchboard. No. 918,845; Apr. 20; Sp. p. 3918; Gaz. vol. 141; p. 690.
- Goldschmidt Detinning Company. (See Goldschmidt, H., assignor.) (Reissue.)
- Goldschmidt Detinning Company. (See Goldschmidt and Weber, assignors.) (Reissue.)
- Goldschmidt, H., Essen-on-the-Ruhr, Germany. Manufacture of alloys of silicon. No. 915,172; Mar. 16; Sp. p. 3142; Gaz. vol. 140; p. 551.
- Goldschmidt, H., Essen-on-the-Ruhr, Germany. Alloy of silicon. No. 921,607; May 11; Sp. p. 3110; Gaz. vol. 142; p. 532.
- Goldschmidt, H., Essen-on-the-Ruhr, Germany, assignor, by mesne assignments, to Goldschmidt Thermit Company, New York, N. Y. Welding metals. (Reissue.) No. 12,953; May 4; Sp. p. 1651; Gaz. vol. 142; p. 264.
- Goldschmidt, H., Essen-on-the-Ruhr, Germany, assignor, by mesne assignments, to Goldschmidt Thermit Co., New York, N. Y. Welding metals. (Reissue.) No. 13,010; Aug. 17; Sp. p. 4416; Gaz. vol. 145; p. 749.
- Goldschmidt, H., Essen-on-the-Ruhr, Germany, assignor to Goldschmidt Thermit Co., New York, N. Y. Joining metal pieces. (Reissue.) No. 13,050; Dec. 7; Sp. p. 1778; Gaz. vol. 149; p. 286.
- Goldschmidt, H., Essen-on-the-Ruhr, Germany, assignor, by mesne assignments, to Goldschmidt Detinning Company, Jersey City, N. J. Preparing tinned sheet-iron boxes, &c., for detinning. (Reissue.) No. 13,042; Nov. 16; Sp. p. 4893; Gaz. vol. 148; p. 815.
- Goldschmidt, H., and F. Lange, Essen-on-the-Ruhr, Germany, assignors to Goldschmidt Thermit Company, New York, N. Y. Clamping-tool for holding and butting rail ends, beams, and the like during welding. No. 918,745; Apr. 20; Sp. p. 3712; Gaz. vol. 141; p. 659.
- Goldschmidt, H., and F. Lange, Essen-on-the-Ruhr, Germany, assignors to Goldschmidt Thermit Co., New York, N. Y. Clamping apparatus for clamping and butting railway-rails, &c., in the welding process. No. 925,630; June 22; Sp. p. 5300; Gaz. vol. 143; p. 932.
- Goldschmidt, H., and O. Well, assignors to T. Goldschmidt, Essen-on-the-Ruhr, Germany. Manufacturing calcium-silicon alloys, &c. No. 938,758; Nov. 2; Sp. p. 665; Gaz. vol. 148; p. 106.
- Goldschmidt, K., and F. Spitzer, assignors to T. Goldschmidt, Essen-on-the-Ruhr, Germany. Separating and concentrating chlorine. No. 934,400; Sept. 14; Sp. p. 2881; Gaz. vol. 146; p. 482.
- Goldschmidt, K., and J. Weber, Essen-on-the-Ruhr, Germany, assignors, by mesne assignments, to Goldschmidt Detinning Company, Jersey City, N. J. Detinning. (Reissue.) No. 12,956; May 11; Sp. p. 3221; Gaz. vol. 142; p. 551.
- Goldschmidt, T. (See Goldschmidt and Spitzer, assignors.)
- Goldschmidt, T. (See Goldschmidt and Well, assignors.)
- Goldschmidt Thermit Co. (See Goldschmidt, H., assignor.) (Reissue.)
- Goldschmidt Thermit Company. (See Goldschmidt and Lange, assignors.)
- Goldsmith, B., Lisbon, Ohio. Apparatus for coating sheet metal. No. 934,519; Sept. 21; Sp. p. 3115; Gaz. vol. 146; p. 543.
- Goldsmith, B. B., New York, N. Y. Enameling leather. No. 909,288; Jan. 12; Sp. p. 1747; Gaz. vol. 138; p. 314.
- Goldsmith, B. B., New York, N. Y. Thermoplastic compound of proteids and amines. No. 922,133; May 18; Sp. p. 4186; Gaz. vol. 142; p. 732.
- Goldsmith, B. B., New York, N. Y. Thermoplastic keratin composition. No. 922,692; May 25; Sp. p. 5345; Gaz. vol. 142; p. 943.
- Goldsmith, B. B., New York, N. Y. Thermoplastic compound of blood or egg proteid. No. 923,353; June 1; Sp. p. 565; Gaz. vol. 143; p. 81.
- Goldsmith, B. B., New York, N. Y. Thermoplastic compound and making same. No. 924,057; June 8; Sp. p. 2078; Gaz. vol. 143; p. 346.
- Goldsmith, B. B., New York, N. Y. Gelatoid thermoplastic compound. No. 925,328; June 15; Sp. p. 4701; Gaz. vol. 143; p. 803.
- Goldsmith, C. A., York, Pa. Composition of matter. No. 923,641; June 1; Sp. p. 1178; Gaz. vol. 143; p. 181.
- Goldsmith & Co., C. P. (See Fischer, R., assignor.)
- Goldsmith, F. E., Middletown, assignor to Ceramic Machinery Company, Hamilton, Ohio. Tile-coating machine. No. 917,586; Apr. 6; Sp. p. 1222; Gaz. vol. 141; p. 214.
- Goldsmith, F. E., Middletown, assignor to Ceramic Machinery Company, Hamilton, Ohio. Machine for coating. No. 918,440; Apr. 13; Sp. p. 2996; Gaz. vol. 141; p. 527.
- Goldsmith, F. E., Middletown, assignor to Ceramic Machinery Company, Hamilton, Ohio. Coating-machine. No. 926,059; June 22; Sp. p. 6206; Gaz. vol. 143; p. 1072.
- Goldsmith, F. E., assignor, by mesne assignments, to Ceramic Machinery Company, Hamilton, Ohio. Tile-coating machine. No. 926,182; June 29; Sp. p. 6496; Gaz. vol. 143; p. 1150.
- Goldsmith, F. E., Middletown, assignor, by mesne assignments, to Ceramic Machinery Company, Hamilton, Ohio. Agitator. No. 939,905; Nov. 9; Sp. p. 3202; Gaz. vol. 148; p. 528.
- Goldsmith, F. E., assignor to Ceramic Machinery Company, Hamilton, Ohio. Glazing tile, brick, or the like. No. 941,635; Nov. 30; Sp. p. 7005; Gaz. vol. 148; p. 1185.
- Goldsmith, F. E., assignor to Ceramic Machinery Company, Hamilton, Ohio. Tile-coating machinery. No. 944,607; Dec. 28; Sp. p. 5566; Gaz. vol. 149; p. 965.
- Goldsmith, F. H., Kansas City, Mo. Automatically-closing valve. No. 938,574; Nov. 2; Sp. p. 302; Gaz. vol. 148; p. 45.
- Goldsmith, H., and S. Werner, Chicago, Ill. Stopper for razor-blades. No. 926,865; July 6; Sp. p. 338; Gaz. vol. 144; p. 54.
- Goldsmith, H. C., French Camp, Cal. Mail-bag catcher. No. 931,921; Aug. 24; Sp. p. 4888; Gaz. vol. 145; p. 838.
- Goldsmith, M., Atlanta, Ga. Mining apparatus. No. 931,057; Aug. 17; Sp. p. 3022; Gaz. vol. 145; p. 531.
- Goldsmith, M. S., W. Rees, and R. O. Wheeler, assignors to Bankers Construction Company, Cincinnati, Ohio. Furniture leg and apron. No. 909,887; Jan. 19; Sp. p. 2930; Gaz. vol. 138; p. 545.
- Goldstein, C., New York, N. Y. Cloth-machine. No. 917,049; Apr. 6; Sp. p. 179; Gaz. vol. 141; p. 34.
- Goldstein, M., assignor of one-half to G. Truscott, Minneapolis, Minn. Lock. No. 921,232; May 11; Sp. p. 2325; Gaz. vol. 142; p. 408.
- Goldstone, F. W. Burks Falls, Ontario, Canada. Door-lock. No. 909,888; Jan. 19; Sp. p. 2931; Gaz. vol. 138; p. 545.
- Goldswort, J., administrator. (See Rogers, J.)
- Goldthwait, W. A., Melrose Park, Ill. Link for automatic fire extinguishers or appliances. No. 924,760; June 15; Sp. p. 3586; Gaz. vol. 143; p. 615.
- Gollo, E. G., et al. (See Giorgi, G., assignor.)
- Goltstein, E., Cologne, Germany. Bottle-stopper. No. 926,403; June 29; Sp. p. 6926; Gaz. vol. 143; p. 1220.
- Gömann, W., Brooklyn, N. Y. Beer-pipe-cleaning machine. No. 917,286; Apr. 6; Sp. p. 671; Gaz. vol. 141; p. 115.
- Gomes, J. P., Watsonville, Cal. Baling-press. No. 914,266; Mar. 2; Sp. p. 1307; Gaz. vol. 140; p. 202.
- Gömöry, A., Budapest, Austria-Hungary. Knife for mincing-machines. No. 922,884; May 25; Sp. p. 5769; Gaz. vol. 142; p. 1006.
- Gonella, A., Vigevano, Italy. Fireless cooker. No. 933,550; Sept. 7; Sp. p. 1212; Gaz. vol. 146; p. 177.
- Gonia, G. B., Revere, Mass. Bowling-alley-surfacing machine. No. 940,004; Nov. 16; Sp. p. 3425; Gaz. vol. 148; p. 590.
- Gonon, P. E., assignor to Matchless Match Company, New York, N. Y. Self-igniting folded match-box. No. 921,827; May 18; Sp. p. 3589; Gaz. vol. 142; p. 633.
- Gonser, A. B., assignor of one-half to E. Willig, Canton, Ohio. Sheet-metal box. No. 915,850; Mar. 23; Sp. p. 4525; Gaz. vol. 140; p. 803.
- Gonya, S. J. (See Jannell, L. D., assignor.)
- Gooch, C. W., Lynchburg, Va., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 925,805; June 22; Sp. p. 5703; Gaz. vol. 143; p. 988.
- Gooch, C. W., Lynchburg, Va., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 931,410; Aug. 17; Sp. p. 3782; Gaz. vol. 145; p. 653.
- Gooch, C. W., Lynchburg, Va., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 935,600; Sept. 28; Sp. p. 5293; Gaz. vol. 146; p. 929.
- Good, E., et al. (See Fox, A. E., assignor.)
- Good, E. E., Waterloo, Ia. Milking apparatus. No. 920,129; May 4; Sp. p. 80; Gaz. vol. 142; p. 11.
- Good, E. E., Waterloo, Iowa. Milking apparatus. No. 937,789; Oct. 26; Sp. p. 4576; Gaz. vol. 147; p. 793.
- Good, G. P., Detroit, and W. L. McCullough, assignors to W. L. McCullough Co., Ypsilanti, Mich. Ore-pulverizer. No. 922,577; May 25; Sp. p. 5106; Gaz. vol. 142; p. 906.
- Good, H. V., Finsbury Circus, London, England. Advertising device. No. 917,587; Apr. 6; Sp. p. 1225; Gaz. vol. 141; p. 214.

*Alphabetical list of patentees—Continued.*

- Good, J. L., Detroit, Mich., assignor to Computing Scale Company, Dayton, Ohio. Compensating-rod connection for scales. No. 910,056; Jan. 19; Sp. p. 3271; Gaz. vol. 138; p. 603.
- Good Manufacturing Company. (See Curry, G. W., assignor.)
- Good T. L. (See Bernhardt, Good, and Gerling.)
- Good, V. F., Greensburg, Pa. Combined waxing-pad and iron-holder. No. 920,049; Apr. 27; Sp. p. 6614; Gaz. vol. 141; p. 1125.
- Goodale, D., Fort Collins, Colo. Skirt-marker. No. 923,166; June 1; Sp. p. 95; Gaz. vol. 143; p. 16.
- Goodale, F. C., Tacoma, Wash. Sound-reproducing machine. No. 944,608; Dec. 28; Sp. p. 5570; Gaz. vol. 149; p. 966.
- Goodall Worsted Company. (See Spence, F., assignor.)
- Goodchild, J. (See Goodchild, W., assignor.)
- Goodchild, W., assignor to J. Goodchild, New York, N. Y. Fire-alarm. No. 939,128; Nov. 2; Sp. p. 1442; Gaz. vol. 148; p. 234.
- Goode, E. R., Boston, Mass. Sink. No. 927,524; July 13; Sp. p. 1692; Gaz. vol. 144; p. 302.
- Goodell, C. M., *et al.* (See Waddell, T. J., assignor.) (Reissue.)
- Goodell Company. (See Mower, F. G., assignor.)
- Goodell, L. N. (See Krutsinger, A., assignor.)
- Goodenow, F. I., Kansas City, Mo. Computing counter-measure. No. 913,124; Feb. 23; Sp. p. 4333; Gaz. vol. 139; p. 784.
- Goodenow, J. F., Kansas City, Mo. Lady's jacket. No. 930,661; Aug. 10; Sp. p. 2137; Gaz. vol. 145; p. 373.
- Goodfellow, J. (See Chapman, C. E., assignor.)
- Goodhue, J. E., St. Charles, Ill. Corn-husking machine. No. 944,088; Dec. 21; Sp. p. 4416; Gaz. vol. 149; p. 761.
- Goodhue, W. L., Wheeling, W. Va., assignor to American Sheet & Tin Plate Company, Pittsburgh, Pa. Sheet-metal package. No. 918,998; Apr. 20; Sp. p. 4248; Gaz. vol. 141; p. 742.
- Goodier, J. H., Utica, N. Y. Combined street-indicator and advertising device. No. 940,963; Nov. 23; Sp. p. 5564; Gaz. vol. 148; p. 942.
- Gooding, C. S. (See Moody, F. M., assignor.)
- Gooding, C. S., Brookline, and S. E. Taft, South Framingham, Mass.; said Taft assignor to said Gooding. Machine for randing and cutting in the shanks of shoes. No. 939,007; Nov. 2; Sp. p. 1199; Gaz. vol. 148; p. 192.
- Gooding, G. W., Seattle, Wash. Rocking device. No. 923,509; June 1; Sp. p. 884; Gaz. vol. 143; p. 134.
- Goodknight, A. L., Mena, Ark. Air-brake-adjusting device for loaded and empty cars. No. 943,778; Dec. 21; Sp. p. 3759; Gaz. vol. 149; p. 654.
- Goodknight, J. M., Kansas City, Kans. Double-acting clamp. No. 914,567; Mar. 9; Sp. p. 1924; Gaz. vol. 140; p. 328.
- Goodman, B., Wallace, Kans. Chain construction. No. 912,837; Feb. 16; Sp. p. 3784; Gaz. vol. 139; p. 665.
- Goodman, B., Wallace, Kans. Wire-stretcher. No. 912,838; Feb. 16; Sp. p. 3784; Gaz. vol. 139; p. 665.
- Goodman, E. (See Lovass and Ganz, assignors.)
- Goodman, J. E., Atlanta, Ga. Optometer. No. 922,276; May 18; Sp. p. 4492; Gaz. vol. 142; p. 779.
- Goodman Manufacturing Company. (See Levin, N. D., assignor.)
- Goodman, N. J., assignor to Simplex Self-Holding Carton Company, St. Louis, Mo. Merchandise-wrapper. No. 917,938; Apr. 13; Sp. p. 1970; Gaz. vol. 141; p. 358.
- Goodman, N. J., assignor to Simplex Self Holding Carton Company, St. Louis, Mo. Carton. No. 924,761; June 15; Sp. p. 3587; Gaz. vol. 143; p. 616.
- Goodman, N. J., assignor to Simplex Self Holding Carton Co., St. Louis, Mo. Carton or holder for laundried articles. No. 942,201; Dec. 7; Sp. p. 375; Gaz. vol. 149; p. 57.
- Goodman, P., New York, N. Y. Gas-main stopper. No. 940,458; Nov. 16; Sp. p. 4481; Gaz. vol. 148; p. 749.
- Goodner, J. A., and A. P. Kendig, Rocky Ford, Colo. Variable-speed mechanism. No. 921,233; May 11; Sp. p. 2327; Gaz. vol. 142; p. 408.
- Goodnough, F. D., Detroit, Mich. Low-water alarm. No. 928,650; July 20; Sp. p. 4059; Gaz. vol. 144; p. 707.
- Goodrich, C. L., assignor to Pratt & Whitney Company, Hartford, Conn. Tool-holder. No. 921,977; May 18; Sp. p. 3888; Gaz. vol. 142; p. 630.
- Goodrich, C. M., Clinton, Iowa. Locomotive-cab-window ventilator. No. 925,329; June 15; Sp. p. 4703; Gaz. vol. 143; p. 803.
- Goodrich, E. M. (See Marshall, G., assignor.)
- Goodrich, E. S., *et al.* (See Watts, H. I., assignor.)
- Goodrich, E. W., Somerville, Mass. Projection apparatus. No. 908,560; Jan. 5; Sp. p. 267; Gaz. vol. 138; p. 45.
- Goodrich, O. A., assignor of five-eighths to J. N. Warren and one-eighth to F. A. Seaman, Sioux City, Iowa. Four-wheel positive drive. No. 941,514; Nov. 30; Sp. p. 6770; Gaz. vol. 148; p. 1146.
- Goodrich, O. H., Castleton Corners, assignor to Miniature Telephone Booth Co., New York, N. Y. Appliance for use with telephone-transmitters. No. 925,806; June 22; Sp. p. 5710; Gaz. vol. 143; p. 988.
- Goodrick, E. W., Appleton, Wis. Packing-pad. No. 915,094; Mar. 16; Sp. p. 2970; Gaz. vol. 140; p. 526.
- Goodridge, G. W., Bridgeport, Conn. Wire-skipping pliers. No. 941,192; Nov. 23; Sp. p. 6075; Gaz. vol. 148; p. 1019.
- Goodridge, G. W., assignor to Bryant Electric Company, Bridgeport, Conn. Fuse-plug. No. 923,642; June 1; Sp. p. 1179; Gaz. vol. 143; p. 181.
- Goodridge, G. W., assignor to Bryant Electric Company, Bridgeport, Conn. Weatherproof socket for electric lamps. No. 933,644; Sept. 7; Sp. p. 1381; Gaz. vol. 146; p. 207.
- Goodridge, G. W., assignor to Bryant Electric Company, Bridgeport, Conn. Strain-relief for electrical devices. No. 938,313; Oct. 26; Sp. p. 5691; Gaz. vol. 147; p. 969.
- Goodridge, G. W., assignor to Bryant Electric Company, Bridgeport, Conn. Electrical receptacle. No. 940,526; Nov. 16; Sp. p. 4625; Gaz. vol. 148; p. 771.
- Goodridge, G. W., assignor to Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Rotary snap-switch. No. 924,609; June 8; Sp. p. 3256; Gaz. vol. 143; p. 531.
- Goodrow, W. (See Kaufman, F., assignor.)
- Goodrow, W., Chicago, Ill. Frame corner and fastener. No. 909,080; Jan. 5; Sp. p. 1321; Gaz. vol. 138; p. 212.
- Goodrum, C. L. (See Lattig and Goodrum.)
- Goodson Electric and Manufacturing Company. (See Carlborg, O., assignor.)
- Goodspeed, C. B. (See Whitridge and Goodspeed.)
- Goodspeed, C. B., Columbus, Ohio. Car-truck frame. No. 929,300; July 27; Sp. p. 5404; Gaz. vol. 144; p. 950.
- Goodspeed, C. B., Chicago, Ill. Car-truck. No. 941,515; Nov. 30; Sp. p. 6773; Gaz. vol. 148; p. 1147.
- Goodspeed, L. J., Rockford, Ill. Wheel. No. 929,208; July 27; Sp. p. 5188; Gaz. vol. 144; p. 920.
- Goodwin, C. N., Washington, D. C. Cotton-harvester. No. 939,008; Nov. 2; Sp. p. 1205; Gaz. vol. 148; p. 192.
- Goodwin Car Company. (See Goodwin, E. W., assignor.)
- Goodwin, E. C., assignor to Hart & Cooley Company, New Britain, Conn. Lock and latch. No. 915,851; Mar. 23; Sp. p. 4527; Gaz. vol. 140; p. 804.
- Goodwin, E. G., Bybee, Va. Mower. No. 932,697; Aug. 31; Sp. p. 6504; Gaz. vol. 145; p. 1120.
- Goodwin, E. W., Bensonhurst, assignor to Goodwin Car Company, New York, N. Y. Valve-replacing apparatus. No. 941,873; Nov. 30; Sp. p. 7540; Gaz. vol. 148; p. 1268.
- Goodwin, G. B. M., assignor to M. A. Smith, New York, N. Y. Candy-coating machine. No. 937,698; Oct. 19; Sp. p. 4365; Gaz. vol. 147; p. 743.
- Goodwin, J. C., Philadelphia, Pa. Sewing-machine. No. 909,081; Jan. 5; Sp. p. 1323; Gaz. vol. 138; p. 213.
- Goodwin, J. M., Mount Vernon, N. Y. Valve-releasing means for dumping-vehicles. No. 917,287; Apr. 6; Sp. p. 673; Gaz. vol. 141; p. 115.
- Goodwin, J. M., Taunton, Mass. Drill and socket. No. 928,749; July 20; Sp. p. 4248; Gaz. vol. 144; p. 740.
- Goodwin, M., Erdington, England. Tap for tanks, oil-drums, and the like. No. 924,762; June 15; Sp. p. 3588; Gaz. vol. 143; p. 616.
- Goodwin, P. H., San Diego, Cal. Life-saving and signal rocket. No. 932,270; Aug. 24; Sp. p. 5598; Gaz. vol. 145; p. 955.
- Goodwin, W. B., Columbus, Ohio. Brake-shoe. No. 911,393; Feb. 2; Sp. p. 722; Gaz. vol. 139; p. 125.
- Goodwine, J., *et al.* (See Hall, F. M., assignor.)
- Goodwine, U. S., *et al.* (See Hall, F. M., assignor.)
- Goodyear, C. H., Cedar Rapids, Iowa. Loose-leaf note-book. No. 912,111; Feb. 9; Sp. p. 2228; Gaz. vol. 139; p. 385.
- Goodyear, C. H., Cedar Rapids, Iowa. Note-book. No. 912,112; Feb. 9; Sp. p. 2229; Gaz. vol. 139; p. 385.
- Goodyear, N., New York, N. Y., assignor to J. B. Colt Company. Gas-generator. No. 930,749; Aug. 10; Sp. p. 2315; Gaz. vol. 145; p. 402.
- Goodyear, N., assignor to J. B. Colt Company, New York, N. Y. Gas-generator. No. 931,293; Aug. 17; Sp. p. 3549; Gaz. vol. 145; p. 612.
- Goodyear Tire and Rubber Company. (See Litchfield, P. W., assignor.)
- Goodykoontz, F. A., assignor of one-half to J. L. Byrne, Sapulpa, Okla. Hair-curler. No. 912,839; Feb. 16; Sp. p. 3785; Gaz. vol. 129; p. 666.
- Goodykoontz, F. A., and J. L. Byrne, Sapulpa, Okla. Vegetable-cutter. No. 925,693; June 22; Sp. p. 5431; Gaz. vol. 143; p. 950.
- Goings, M. B., San Francisco, Cal. Harness. No. 934,304; Sept. 14; Sp. p. 2701; Gaz. vol. 146; p. 448.
- Goolman, F. R., Binghamton, N. Y. Automatic piano. No. 917,288; Apr. 6; Sp. p. 674; Gaz. vol. 141; p. 115.
- Goolman, F. R., Binghamton, N. Y. Self-playing musical instrument. No. 932,606; Aug. 31; Sp. p. 6312; Gaz. vol. 145; p. 1090.
- Goolsby, L. T. and T. H., Talmage, Mo. Lifting-jack, wire-stretcher, and post-puller. No. 913,281; Feb. 23; Sp. p. 4654; Gaz. vol. 139; p. 835.
- Goolsby, T. H. (See Goolsby, L. T. and T. H.)
- Goppman, L., Pittsburg, Pa. Solder for aluminum. No. 939,494; Nov. 9; Sp. p. 2322; Gaz. vol. 148; p. 385.



*Alphabetical list of patentees—Continued.*

- Gorby, C., Holtville, Cal. Auxiliary wagon-body. No. 935,754; Oct. 5; Sp. p. 278; Gaz. vol. 147; p. 45.
- Gordon, A. A., Jr., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 932,119; Aug. 24; Sp. p. 5309; Gaz. vol. 145; p. 905.
- Gordon, A. A., Jr., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Loom-dobby. No. 935,652; Oct. 5; Sp. p. 52; Gaz. vol. 147; p. 11.
- Gordon, A. A., Jr., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Center-selva mechanism or attachment for looms. No. 936,445; Oct. 12; Sp. p. 1793; Gaz. vol. 147; p. 298.
- Gordon, A. C., Glens Falls, N. Y. Ball-cock. No. 924,345; June 8; Sp. p. 2728; Gaz. vol. 143; p. 444.
- Gordon, A. R., Gorin, Mo. Attachment for screen-doors. No. 931,411; Aug. 17; Sp. p. 3784; Gaz. vol. 145; p. 653.
- Gordon, C., Hartford, assignor to Whitlock Coil Pipe Company, West Hartford, Conn. Machine for bending pipe. No. 913,004; Feb. 23; Sp. p. 4100; Gaz. vol. 139; p. 743.
- Gordon, C., Hartford, assignor to Whitlock Coil Pipe Company, West Hartford, Conn. Flanged pipe. No. 940,870; Nov. 23; Sp. p. 5377; Gaz. vol. 148; p. 911.
- Gordon, C. A., Gibbon, Nebr. Wrench-rack. No. 925,577; June 22; Sp. p. 5191; Gaz. vol. 143; p. 914.
- Gordon, C. H., Grand Junction, assignor of two-ninths to W. M. Van Buren, two-ninths to J. Arentsen, and two-ninths to G. Bullock, Mesa county, Colo. Gun-sight. No. 943,872; Dec. 21; Sp. p. 3948; Gaz. vol. 149; p. 686.
- Gordon, D. J. (See Stevenson, H. T., assignor.)
- Gordon, E. J., Big Rapids, Mich. Hollow grate-bar. No. 915,852; Mar. 23; Sp. p. 4528; Gaz. vol. 140; p. 804.
- Gordon, F. A., Nogales, Ariz. Water-bag. No. 941,245; Nov. 23; Sp. p. 6178; Gaz. vol. 148; p. 1036.
- Gordon, J. S., and S. P. Mumma, Canal Dover, Ohio. Tea and coffee percolator. No. 909,178; Jan. 12; Sp. p. 1546; Gaz. vol. 138; p. 279.
- Gordon, J. T., Jackson, and C. Andrews, assignors to Andrew's Governor Patents Limited, London, England. Governor for marine engines. No. 919,713; Apr. 27; Sp. p. 5905; Gaz. vol. 141; p. 1014.
- Gordon, M. A. (See Sparr, B. F., assignor.)
- Gordon, S., Washington, D. C. Horseshoe and calk. No. 912,667; Feb. 16; Sp. p. 3389; Gaz. vol. 139; p. 608.
- Gordon, W., Boston, Mass. Sewing-lasting-machine. No. 912,668; Feb. 16; Sp. p. 3391; Gaz. vol. 139; p. 608.
- Gordon, W., Canajoharie, N. Y. Horse-blanket. No. 917,588; Apr. 6; Sp. p. 1226; Gaz. vol. 141; p. 214.
- Gordon, W., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Edge-setting machine. No. 937,434; Oct. 19; Sp. p. 3844; Gaz. vol. 147; p. 655.
- Gordon, W. L., Deal, N. J. Pneumatic heel-cushion. No. 933,551; Sept. 7; Sp. p. 1213; Gaz. vol. 146; p. 177.
- Gordon, W. T., assignor to Savings Bank Manufacturing Co., Chicago, Ill. Coin-safe. No. 927,461; July 6; Sp. p. 1548; Gaz. vol. 144; p. 254.
- Core, B. S., Johnson City, Tenn. Type-writer case. No. 912,951; Feb. 16; Sp. p. 3975; Gaz. vol. 139; p. 700.
- Gore, T., Brooklyn, N. Y. Wire rope. No. 922,417; May 18; Sp. p. 4760; Gaz. vol. 142; p. 825.
- Gore, T., Brooklyn, N. Y. Fiber-clad wire rope. No. 922,418; May 18; Sp. p. 4762; Gaz. vol. 142; p. 825.
- Goreau, N. G., New Orleans, La. Plumbing-fitting. No. 914,944; Mar. 9; Sp. p. 2683; Gaz. vol. 140; p. 450.
- Goreau, N. G., assignor to Go-Ro Manufacturing Company, New Orleans, La. Filter. No. 918,746; Apr. 20; Sp. p. 3713; Gaz. vol. 141; p. 659.
- Gorelick, S., Elizabeth, N. J. Vegetable-cutter. No. 920,130; May 4; Sp. p. 81; Gaz. vol. 142; p. 11.
- Gorham, F. C., assignor to Connor Gorham Company, Chicago, Ill. Razor-blade holder. No. 915,024; Mar. 9; Sp. p. 2812; Gaz. vol. 140; p. 476.
- Gorham Manufacturing Company. (See Pender, J. E. P., assignor.)
- Gorham, R. C., Dunlap, Iowa. Leveling mechanism for traction-engines. No. 928,380; July 20; Sp. p. 3505; Gaz. vol. 144; p. 620.
- Gorman, F., assignor of one-half to W. Harrop, Toledo, Ohio. Pipe-gripping attachment for monkey-wrenches. No. 928,444; July 20; Sp. p. 3639; Gaz. vol. 144; p. 641.
- Gorman, F., New York, N. Y., assignor of one-third to L. Sussman, Bayonne, N. J., and one-third to J. A. Watt, New York, N. Y. Bulb-support. No. 936,446; Oct. 12; Sp. p. 1795; Gaz. vol. 147; p. 298.
- Gorman, G. M., Anamora, Iowa. Corn-planter. No. 941,874; Nov. 30; Sp. p. 7542; Gaz. vol. 148; p. 1269.
- Gorman, H. J., and E. G. Beatty, Smithfield, W. Va. Rail-joint. No. 915,501; Mar. 16; Sp. p. 3987; Gaz. vol. 140; p. 689.
- Gorman, J. H., Salisbury, N. C. Watch potence or balance-foot. No. 934,305; Sept. 14; Sp. p. 2703; Gaz. vol. 146; p. 449.
- Gorman, J. H., Salisbury, N. C. Setting device for watches. No. 939,009; Nov. 2; Sp. p. 1210; Gaz. vol. 148; p. 193.
- Gorman, J. P., Chicago, Ill. Rail-cleaner. No. 944,132; Dec. 21; Sp. p. 4518; Gaz. vol. 149; p. 775.
- Gormley, F. L., Boston, Mass. Lifting-jack. No. 921,235; May 11; Sp. p. 2333; Gaz. vol. 142; p. 409.
- Gormley, F. L., Boston, Mass. Lifting-jack. No. 929,585; July 27; Sp. p. 5933; Gaz. vol. 144; p. 1043.
- Gormley, F. L., Boston, Mass. Lifting-jack. No. 933,704; Sept. 7; Sp. p. 1515; Gaz. vol. 146; p. 228.
- Gormley, F. L., Boston, Mass. Lifting-jack. No. 933,705; Sept. 7; Sp. p. 1517; Gaz. vol. 146; p. 229.
- Gormley, F. L., Boston, Mass. Operating mechanism for lifting-jacks. No. 934,806; Sept. 21; Sp. p. 3634; Gaz. vol. 146; p. 640.
- Gormley, F. L., Boston, and B. B. Terrill, Winthrop, Mass. Lifting-jack. No. 921,234; May 11; Sp. p. 2329; Gaz. vol. 142; p. 408.
- Gormon, I. A., Richmond, Ind. Billiard-cue. No. 934,162; Sept. 14; Sp. p. 2443; Gaz. vol. 146; p. 401.
- Gormon, I. A., Richmond, Ind. Billiard-cue tip. No. 934,163; Sept. 14; Sp. p. 2445; Gaz. vol. 146; p. 402.
- Gorndt, C. A., Chicago, Ill. Continuous oven. No. 926,404; June 29; Sp. p. 6927; Gaz. vol. 143; p. 1220.
- Gorrell, C. W. F., Ottawa, Ontario, Canada, assignor to M. Ruthenburg, Lockport, N. Y. Electric furnace. No. 916,548; Mar. 30; Sp. p. 5897; Gaz. vol. 140; p. 1057.
- Gorrell, H. V. (See Gorrell, J. B., assignor.)
- Gorrell, J. B., assignor of one-half to H. V. Gorrell, Kendallville, Ind. Lawn-sprinkler. No. 920,864; May 4; Sp. p. 1561; Gaz. vol. 142; p. 252.
- Gorsuch, E. W., Baltimore, Md. Rail-joint. No. 927,650; July 13; Sp. p. 1971; Gaz. vol. 144; p. 344.
- Gorton, C. B. (See Gorton and Richards.)
- Gorton, C. E., assignor to F. C. Schurz, Chicago, Ill. Dispensing apparatus. No. 929,127; July 27; Sp. p. 5023; Gaz. vol. 144; p. 893.
- Gorton, H. J. and C. B., and J. M. Richards, Medford, Mass. Detachable handle for sewing-machine wheels. No. 923,354; June 1; Sp. p. 567; Gaz. vol. 143; p. 81.
- Gorton, T. S., *et al.* (See Richardson, C. H., assignor.)
- Gorton, W. F. (See Smith and Gorton.)
- Gorton, W. F., assignor to Ontario Silver Company, Muncie, Ind. Die-holder for drop-hammers. No. 940,005; Nov. 16; Sp. p. 3428; Gaz. vol. 148; p. 591.
- Gosline, D. P., Boston, Mass. Machine for humidifying and cleansing air and controlling its temperature. No. 916,146; Mar. 23; Sp. p. 5077; Gaz. vol. 140; p. 899.
- Gosline, D. P., Boston, Mass. Machine for conditioning air. No. 916,147; Mar. 23; Sp. p. 5081; Gaz. vol. 140; p. 899.
- Goss, E. O., assignor to Scovill Manufacturing Company, Waterbury, Conn. Machine for coiling metal. No. 927,037; July 6; Sp. p. 705; Gaz. vol. 144; p. 112.
- Goss, G. W., Orla, Tex., assignor of one-half to C. M. Acrey, Carlsbad, N. Mex. Calculator. No. 943,779; Dec. 21; Sp. p. 3763; Gaz. vol. 149; p. 655.
- Goss, J. H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Self-feeding scratch-brush lathe. No. 922,761; May 25; Sp. p. 5489; Gaz. vol. 142; p. 965.
- Goss Printing Press Company. (See Firm, J. L., assignor.)
- Goss Printing Press Company. (See Goss, S. G., assignor.)
- Goss Printing Press Company. (See Schroeder, H. C., assignor.)
- Goss Printing Press Company. (See Seymour, R. C., assignor.)
- Goss Printing Press Company. (See Walser, J. J., assignor.)
- Goss, S. G., assignor to Goss Printing Press Company, Chicago, Ill. Stereotype-casting box. No. 933,172; Sept. 7; Sp. p. 285; Gaz. vol. 146; p. 47.
- Goss, S. G., assignor to Goss Printing Press Company, Chicago, Ill. Folding mechanism. No. 936,710; Oct. 12; Sp. p. 2335; Gaz. vol. 147; p. 388.
- Goss, S. G., assignor to Goss Printing Press Company, Chicago, Ill. Pneumatic folding mechanism for printing-presses. No. 936,711; Oct. 12; Sp. p. 2340; Gaz. vol. 147; p. 388.
- Gossack, T., Taft, Mont. Candlestick. No. 912,113; Feb. 9; Sp. p. 2230; Gaz. vol. 139; p. 385.
- Gossett, D. S., Plover, Iowa. Pan-lifter. No. 910,190; Jan. 19; Sp. p. 3551; Gaz. vol. 138; p. 646.
- Gossline, P., Bagley, Minn. Sleigh-knee. No. 918,441; Apr. 13; Sp. p. 2998; Gaz. vol. 141; p. 527.
- Gostlin, F. J., and L. Mueller, Jr., Akron, assignors of one-third to C. W. Bonstedt, Aultman, Ohio. Tire. No. 918,846; Apr. 20; Sp. p. 3921; Gaz. vol. 141; p. 691.
- Gotfredsen, F. (See Vogl and Gotfredsen.)
- Gotham Can Company. (See Henriques, C. D., assignor.)
- Gotshall, J. M., assignor of one-half to H. V. Runk, Pillow, Pa. Dumb-waiter. No. 928,960; July 27; Sp. p. 4669; Gaz. vol. 144; p. 837.
- Gotshall, R. W., Toledo, Ohio. Threshing-machine. No. 938,138; Oct. 26; Sp. p. 5310; Gaz. vol. 147; p. 908.

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- Gotshall, R. W., Marion, Ohio. Threshing-machine. No. 938,139; Oct. 26; Sp. p. 5313; Gaz. vol. 147; p. 909.
- Gottli, C. J., Tuckahoe, N. Y. Adjustable crank for internal-combustion engines. No. 934,164; Sept. 14; Sp. p. 2447; Gaz. vol. 146; p. 402.
- Gottli, A. (See Loos, F., assignor.)
- Gottlieb, C. J. A., Aarhus, Denmark. Condenser. No. 938,476; Nov. 2; Sp. p. 47; Gaz. vol. 148; p. 10.
- Gottschalk, E. (See Remané, Hurwitz, and Gottschalk.)
- Gottschalk, F., New York, N. Y. Sound-producing instrument. No. 928,651; July 20; Sp. p. 4060; Gaz. vol. 144; p. 707.
- Gottschalk, F., New York, N. Y. Resistance-cup. No. 928,652; July 20; Sp. p. 4061; Gaz. vol. 144; p. 707.
- Gottschalk, F., New York, N. Y. Device for impressing seals on papers. No. 938,756; Nov. 2; Sp. p. 662; Gaz. vol. 148; p. 105.
- Gottschalk, F., New York, N. Y. Device for impressing seals on papers. No. 938,757; Nov. 2; Sp. p. 663; Gaz. vol. 148; p. 105.
- Gottschalk, F., assignor to Adjustable Seal Company, New York, N. Y. Device for impressing seals on papers. No. 911,007; Jan. 26; Sp. p. 5235; Gaz. vol. 138; p. 943.
- Gottschalk, F. T., Dresden, Germany. Driving and brake clutch. No. 939,411; Nov. 9; Sp. p. 2156; Gaz. vol. 148; p. 358.
- Gottschalk, O., Detroit, Mich. Concrete floor construction. No. 917,050; Apr. 6; Sp. p. 183; Gaz. vol. 141; p. 34.
- Göttsche, G. (See Noodt and Göttsche.)
- Goubillon, J. (See Bertrand and Goubillon.)
- Goucher Electric Purifying Co. (See Goucher, J. L., assignor.)
- Goucher, J. L., assignor to Goucher Electric Purifying Co., New York, N. Y. Treating milk. No. 918,531; Apr. 20; Sp. p. 3194; Gaz. vol. 141; p. 585.
- Goucher, J. L., assignor to Goucher Electric Purifying Co., New York, N. Y. Treating milk. No. 922,134; May 18; Sp. p. 4187; Gaz. vol. 142; p. 733.
- Goucher, S. B., Toronto, Ohio. Sectional smoke-flue. No. 938,140; Oct. 26; Sp. p. 5316; Gaz. vol. 147; p. 909.
- Goudard, M., and M. Mennesson, assignors to themselves and H. Ducasse, Paris, France. Cooling device for the motors of motor-cars. No. 914,822; Mar. 9; Sp. p. 2453; Gaz. vol. 140; p. 411.
- Goudie, C. R., Kansas City, Mo. Awning. No. 934,605; Sept. 21; Sp. p. 3284; Gaz. vol. 146; p. 572.
- Goudie, W. R., and H. L. Myers, Passaic, N. J. Laminated belt for transmitting power. No. 936,532; Oct. 12; Sp. p. 1975; Gaz. vol. 147; p. 325.
- Gough, F. P., *et al.* (See Thompson, J. V., assignor.)
- Goughnour, G. R., Canton, Ohio. Traction-engine. No. 914,137; Mar. 2; Sp. p. 1031; Gaz. vol. 140; p. 163.
- Gould, A. E., Grand Rapids, Mich. Window. No. 926,735; July 6; Sp. p. 33; Gaz. vol. 144; p. 8.
- Gould Balance Valve Company. (See Gould, W. F., assignor.)
- Gould, C. C., assignor, by mesne assignments, to Gould Fastener Company, Philadelphia, Pa. Support for electric wires or conductors. No. 916,435; Mar. 30; Sp. p. 5629; Gaz. vol. 140; p. 1020.
- Gould, C. C., assignor, by mesne assignments, to Gould Fastener Company, Philadelphia, Pa. Holder for clothes-lines, &c. No. 926,405; June 29; Sp. p. 6929; Gaz. vol. 143; p. 1220.
- Gould, C. M. (See Turbayne, W. A., assignor.)
- Gould Coupler Company. (See Richards, W. F., assignor.)
- Gould Coupler Company. (See Turbayne, W. A., assignor.)
- Gould, E. E. (See Nashold, M., assignor.) (Reissue.)
- Gould, E. J., assignor of one-half to J. A. Walker, Boulder, Colo. Compensating gear. No. 921,978; May 18; Sp. p. 3890; Gaz. vol. 142; p. 681.
- Gould & Eberhardt. (See Zimmermann, W. F., assignor.)
- Gould Fastener Company. (See Gould, C. C., assignor.)
- Gould, H. M., Nashville, Tenn. Sheet-piling. No. 929,935; Aug. 3; Sp. p. 670; Gaz. vol. 145; p. 106.
- Gould, H. M., Nashville, Tenn. Sheet-piling. No. 929,936; Aug. 3; Sp. p. 672; Gaz. vol. 145; p. 107.
- Gould, J. A., Winthrop, Mass. Violoncello-support. No. 915,345; Mar. 16; Sp. p. 3481; Gaz. vol. 140; p. 607.
- Gould, M., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Foot-lift for wheeled plows. No. 933,706; Sept. 7; Sp. p. 1520; Gaz. vol. 146; p. 229.
- Gould, M. A., New York, N. Y. Bottle-support and stopper-puller. No. 926,112; June 29; Sp. p. 6335; Gaz. vol. 143; p. 1125.
- Gould, M. L., Chicago, Ill. Curtain-hook. No. 932,778; Aug. 31; Sp. p. 6688; Gaz. vol. 145; p. 1147.
- Gould-Mersereau Company *et al.* (See Lathrop, F. L., assignor.)
- Gould Storage Battery Company. (See Chamberlain, R. N., assignor.)
- Gould Storage Battery Company. (See Chamberlain, Pratt, and Hubbard, assignors.)
- Gould Storage Battery Company. (See Hubbard, A. S., assignor.)
- Gould Storage Battery Company. (See White, F. J., assignor.)
- Gould Storage Battery Company. (See Winship, W. E., assignor.)
- Gould, W. F., Des Moines, assignor to Gould Balance Valve Company, Kellogg, Iowa. Balanced slide-valve. No. 912,372; Feb. 16; Sp. p. 2783; Gaz. vol. 139; p. 507.
- Gould, W. J., El Reno, Okla. Sack-carrier. No. 920,453; May 4; Sp. p. 735; Gaz. vol. 142; p. 117.
- Gould, W. J., and A. K. Jensen, Cripple Creek, Colo. One-hand sifter. No. 911,493; Feb. 2; Sp. p. 884; Gaz. vol. 139; p. 156.
- Goulds Manufacturing Company. (See Casey, A., assignor.)
- Goulet, O. C., Fall River, Mass. Shovel for handling coal. No. 919,850; Apr. 27; Sp. p. 6206; Gaz. vol. 141; p. 1059.
- Goulet, O. C., and A. Lamarre, Fall River, Mass. Loom-side protector. No. 924,451; June 8; Sp. p. 2916; Gaz. vol. 143; p. 478.
- Goulee, G. F., assignor to himself and T. K. Shelby, Wellsville, Mo. Photographic chair. No. 918,666; Apr. 20; Sp. p. 3542; Gaz. vol. 141; p. 631.
- Gounevitch, E. de, Paris, France. Device for lighting and extinguishing gas-burners at given hours. No. 936,120; Oct. 5; Sp. p. 1092; Gaz. vol. 147; p. 167.
- Gourdeau, J. G., Lawrence, Mass. Spacing device for warps. No. 921,236; May 11; Sp. p. 2335; Gaz. vol. 142; p. 409.
- Gourdin, J. K., Pineville, assignor of one-half to R. L. Montague and R. P. Tucker, Charleston, S. C. Fertilizer-distributor. No. 912,114; Feb. 9; Sp. p. 2231; Gaz. vol. 139; p. 386.
- Gourlay, J. S., Syracuse, N. Y. Beam-truss. No. 922,885; May 25; Sp. p. 5770; Gaz. vol. 142; p. 1006.
- Gourlay, J. S., Eastwood, N. Y. Mechanism for operating swinging windows. No. 939,412; Nov. 9; Sp. p. 2157; Gaz. vol. 148; p. 358.
- Gourlay, R. S., Toronto, Ontario, Canada, assignor to Wilcox & White Company, Meriden, Conn. Tracker-board. No. 909,082; Jan. 5; Sp. p. 1325; Gaz. vol. 138; p. 213.
- Gourley, J. S., *et al.* (See Diefenderfer, J. E., assignor.)
- Govers, F. X., Owego, N. Y. Desiccating milk. No. 939,495; Nov. 9; Sp. p. 2323; Gaz. vol. 148; p. 385.
- Gowdy, G. F., Belleville, N. J. Machine for dividing plastic material. No. 938,050; Oct. 26; Sp. p. 5108; Gaz. vol. 147; p. 879.
- Gowdy, G. F., Belleville, N. J. Machine for dividing plastic material into charges. No. 938,051; Oct. 26; Sp. p. 5113; Gaz. vol. 147; p. 879.
- Gowen, T., Seattle, Wash. Sectional water-tube boiler. No. 923,510; June 1; Sp. p. 886; Gaz. vol. 143; p. 135.
- Gowing, E. T., assignor of one-half to W. M. and F. M. Elmer, Watertown, N. Y. Paper box or carton. No. 922,277; May 18; Sp. p. 4494; Gaz. vol. 142; p. 780.
- Gowing, F. J., Sacket Harbor, N. Y., assignor of one-half to J. B. Roseboom, Nogales, Ariz. Ter. Propeller. No. 913,951; Mar. 2; Sp. p. 615; Gaz. vol. 140; p. 97.
- Goyette, A. J., assignor to T. E. Daly, Springfield, Mass. Front-axle connection for vehicles. No. 934,067; Sept. 14; Sp. p. 2238; Gaz. vol. 146; p. 368.
- Goyette, F. W., assignor of one-third to H. Erwin and one-third to A. Vincent, Los Angeles, Cal. Rotary internal-combustion engine. No. 932,463; Aug. 31; Sp. p. 5984; Gaz. vol. 145; p. 1041.
- Goyette, W. L. (See Donnelly and Goyette.)
- Graaff, C., Berlin, Germany, assignor to Minimax Consolidated Limited, London, England, and Neuruppin, Germany. Chemical fire-extinguisher with double nozzle. No. 910,663; Jan. 26; Sp. p. 4583; Gaz. vol. 138; p. 833.
- Graaff & Compagnie, Ges. mit. beschr. Haftung, Firm of W. (See Breslauer, M., assignor.)
- Graaff & Compagnie, Ges. mit. beschr. Haftung, Firm of W. (See Mikorey, H., assignor.)
- Graaff & Compagnie, Ges. mit. beschr. Haftung, Firm of W. (See Schmidt, K., assignor.)
- Graaff, W., Berlin, Germany. Chemical fire-extinguisher with expansion device mounted on the discharge-pipe. No. 920,454; May 4; Sp. p. 736; Gaz. vol. 142; p. 117.
- Graber, J., New York, N. Y. Index-plate for calculating-machines. No. 941,774; Nov. 30; Sp. p. 7322; Gaz. vol. 148; p. 1234.
- Graber, J., New York, N. Y., assignor to United States Calculating Machine Co. Setting device for calculating-machines. No. 934,401; Sept. 14; Sp. p. 2884; Gaz. vol. 146; p. 482.
- Graber, P. H., Dalton, Ohio. Threshing-machine. No. 930,174; Aug. 3; Sp. p. 1162; Gaz. vol. 145; p. 189.
- Grabborn, C., Hoboken, N. J. Safety-razor. No. 917,589; Apr. 6; Sp. p. 1227; Gaz. vol. 141; p. 215.
- Grable, G. C., Berwyn, assignor to Perfection Emergency Tire Company, Chicago, Ill. Vehicle-wheel. No. 926,650; June 29; Sp. p. 7383; Gaz. vol. 143; p. 1302.
- Grabski, S. von, Kruschwitz, Germany. Making sugar. No. 934,965; Sept. 21; Sp. p. 3997; Gaz. vol. 146; p. 695.



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- Grabski, S. von, Kruschwitz, Germany. Separator. No. 934,966; Sept. 21; Sp. p. 3998; Gaz. vol. 146; p. 695.
- Grace, J. F., assignor to Henry R. Worthington, New York, N. Y. Distributor for cooling-towers and the like. No. 937,236; Oct. 19; Sp. p. 3411; Gaz. vol. 147; p. 590.
- Grace, R. (See Bishop and Grace.)
- Grace, R. J., Portland, Ore. Metallic reinforcing-bar for concrete construction. No. 942,202; Dec. 7; Sp. p. 376; Gaz. vol. 149; p. 57.
- Gracey, J. G., assignor of one-half to J. R. Van Slyke, St. Louis, Mo. Propeller and current-motor. No. 930,956; Aug. 10; Sp. p. 2756; Gaz. vol. 145; p. 469.
- Gracy, L. R. (See Huhn, G., assignor.) (Reissue.)
- Graebing, C. E., Freedom, Pa. Lubricator. No. 934,722; Sept. 21; Sp. p. 3519; Gaz. vol. 146; p. 613.
- Graebing, L. S., Yonkers Park, N. Y. Ventilating device. No. 924,658; June 15; Sp. p. 3364; Gaz. vol. 143; p. 580.
- Graef, E. J. (See Graef, E. W., assignor.)
- Graef, E. W., New York, assignor to E. J. Graef, Brooklyn, N. Y. Internal-combustion engine. No. 927,233; July 6; Sp. p. 1102; Gaz. vol. 144; p. 179.
- Graetz, M., Berlin, Germany. Liquid-fuel-heating burner. No. 927,851; July 13; Sp. p. 2399; Gaz. vol. 144; p. 410.
- Graetz, M., Berlin, Germany. Gas-regulator. No. 939,684; Nov. 9; Sp. p. 2734; Gaz. vol. 148; p. 451.
- Graf, F. J., New York, N. Y. Safety fender or guard for automobiles and other vehicles. No. 908,561; Jan. 5; Sp. p. 270; Gaz. vol. 138; p. 45.
- Graf, H. R., Jackson, Mich. Holder for mending stockings. No. 916,926; Mar. 30; Sp. p. 6603; Gaz. vol. 140; p. 1177.
- Grafe, W., Viola, Idaho. Revolving harrow. No. 919,570; Apr. 27; Sp. p. 5623; Gaz. vol. 141; p. 965.
- Graft, A., Wellington, Kans. Vehicle-wheel. No. 943,112; Dec. 14; Sp. p. 2345; Gaz. vol. 149; p. 398.
- Graft, E., Manayunk, Pa. Feed-bag. No. 925,434; June 15; Sp. p. 4904; Gaz. vol. 143; p. 837.
- Graft, F., Witten, Germany. Machine for cutting meat into slices. No. 943,929; Dec. 21; Sp. p. 4083; Gaz. vol. 149; p. 707.
- Graft, F., Jr., Middle Village, N. Y. Gas-stove frame. No. 941,141; Nov. 23; Sp. p. 5956; Gaz. vol. 148; p. 1002.
- Graft, H. Jr. (See Depoy, H. L., assignor.)
- Graft, J. F. (See Hindman, G. L., assignor.)
- Graft, S. (See Neidhart, K., assignor.)
- Graft, S., New York, N. Y. Washable cap. No. 918,037; Apr. 13; Sp. p. 2196; Gaz. vol. 141; p. 394.
- Grafflin, J. H., Baltimore, Md. Shoe-brush. No. 912,115; Feb. 9; Sp. p. 2232; Gaz. vol. 139; p. 386.
- Grafton, J. A., Hamilton, Ohio. Traction-engine. No. 917,590; Apr. 6; Sp. p. 1229; Gaz. vol. 141; p. 215.
- Grafton, R., Mount Charles, Ontario, Canada. Cattle-stanchion. No. 913,723; Mar. 2; Sp. p. 95; Gaz. vol. 140; p. 17.
- Grafton, W. T., Dayton, Ohio. Meal-cabinet. No. 937,067; Oct. 19; Sp. p. 3043; Gaz. vol. 147; p. 535.
- Grah, A., Cincinnati, Ohio. Cutlery. No. 913,207; Feb. 23; Sp. p. 4501; Gaz. vol. 139; p. 811.
- Graham, A. W. (See Connet and Graham.)
- Graham, A. W., Providence, R. I. Nurling-tool. No. 930,662; Aug. 10; Sp. p. 2139; Gaz. vol. 145; p. 373.
- Graham, A. W., Bradford, Pa. Spark arrester and extinguisher. No. 944,237; Dec. 21; Sp. p. 4709; Gaz. vol. 149; p. 807.
- Graham, B., Tarrant county, Tex. Wire-stretcher. No. 926,982; July 6; Sp. p. 568; Gaz. vol. 144; p. 93.
- Graham, C. E., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Brush. No. 912,306; Feb. 16; Sp. p. 2643; Gaz. vol. 139; p. 485.
- Graham, C. M., Malvern, Victoria, Australia. Insulator. No. 930,750; Aug. 10; Sp. p. 2318; Gaz. vol. 145; p. 402.
- Graham, C. M., Malvern, Victoria, Australia. Reinforced wooden support for insulators. No. 930,751; Aug. 10; Sp. p. 2319; Gaz. vol. 145; p. 402.
- Graham, C. W., assignor to Utica Industrial Company, Rome, N. Y. Blank-shaping machine. No. 920,131; May 4; Sp. p. 83; Gaz. vol. 142; p. 12.
- Graham, C. W., assignor to Utica Industrial Company, Rome, N. Y. Soldering-machine. No. 920,320; May 4; Sp. p. 474; Gaz. vol. 142; p. 74.
- Graham, C. W., assignor to Utica Industrial Company, Rome, N. Y. Forming solder-edged caps. No. 924,452; June 8; Sp. p. 2917; Gaz. vol. 143; p. 478.
- Graham, C. W., assignor to Utica Industrial Company, Rome, N. Y. Soldering-machine. No. 924,453; June 8; Sp. p. 2919; Gaz. vol. 143; p. 478.
- Graham & Co., A. (See Graham, E. A., assignor.)
- Graham, E., Hazel Dell, assignor of one-half to H. E. Worfel, Hidalgo, Ill. Portable rural mail-box. No. 917,428; Apr. 6; Sp. p. 939; Gaz. vol. 141; p. 163.
- Graham, E., Hazel Dell, assignor of one-third to H. E. Warfel and one-third to D. E. Bowers, Hidalgo, Ill. Safety-clip for swingletrees. No. 940,388; Nov. 16; Sp. p. 4339; Gaz. vol. 148; p. 726.
- Graham, E. A., Brockley, England. Electric bell. No. 937,594; Oct. 19; Sp. p. 4169; Gaz. vol. 147; p. 710.
- Graham, E. A., Brockley, London, assignor to himself and A. Graham and Company, Brockley, London county, England. Telephonic-exchange switchboard. No. 915,592; Mar. 16; Sp. p. 3988; Gaz. vol. 140; p. 689.
- Graham, E. A., assignor to himself and A. Graham & Co., Brockley, London, England. Telephonic apparatus. No. 928,862; July 20; Sp. p. 4458; Gaz. vol. 144; p. 778.
- Graham, E. L. (See Huggins and Graham.)
- Graham, E. M., Portland, Me. Display-stand. No. 911,871; Feb. 9; Sp. p. 1653; Gaz. vol. 139; p. 306.
- Graham, F. H., Evergreen, Colo. Traction-engine. No. 931,753; Aug. 24; Sp. p. 4510; Gaz. vol. 145; p. 785.
- Graham, F. S., assignor to Quaker City Pneumatic Tool Co., Philadelphia, Pa. Valveless pneumatic tool. No. 922,135; May 18; Sp. p. 4192; Gaz. vol. 142; p. 732.
- Graham, G., New York, N. Y. Self-supporting stocking. No. 941,193; Nov. 23; Sp. p. 6076; Gaz. vol. 148; p. 1019.
- Graham, G. M., assignor to G. A. E. Kohler, Chicago, Ill. Girder for reinforced concrete structures. No. 910,124; Jan. 19; Sp. p. 3402; Gaz. vol. 138; p. 624.
- Graham, G. M., assignor to G. A. E. Kohler, Chicago, Ill. Reinforcing-frame for concrete structures. No. 910,469; Jan. 19; Sp. p. 4170; Gaz. vol. 138; p. 746.
- Graham, G. M., assignor to G. A. E. Kohler, Chicago, Ill. Reinforcing-frame for concrete structures. No. 910,470; Jan. 19; Sp. p. 4171; Gaz. vol. 138; p. 746.
- Graham, G. M., assignor to G. A. E. Kohler, Chicago, Ill. Reinforced concrete structure. No. 919,714; Apr. 27; Sp. p. 5907; Gaz. vol. 141; p. 1014.
- Graham, G. M., assignor to G. A. E. Kohler, Chicago, Ill. Reinforced-concrete partition. No. 938,659; Nov. 2; Sp. p. 478; Gaz. vol. 148; p. 73.
- Graham, G. M., assignor to G. A. E. Kohler, Chicago, Ill. Erecting reinforced concrete structures. No. 938,660; Nov. 2; Sp. p. 479; Gaz. vol. 148; p. 73.
- Graham, G. M., assignor to G. A. E. Kohler, Chicago, Ill. Reinforcing-frame for concrete structures. No. 938,661; Nov. 2; Sp. p. 481; Gaz. vol. 148; p. 74.
- Graham, G. M., assignor to G. A. E. Kohler, Chicago, Ill. Reinforced concrete structure. No. 938,662; Nov. 2; Sp. p. 482; Gaz. vol. 148; p. 74.
- Graham, G. P., Gadsden, Ala. Reversing-valve for regenerative furnaces. No. 916,695; Mar. 30; Sp. p. 6167; Gaz. vol. 140; p. 1104.
- Graham, G. W., Arlington, N. J. Glass knob. No. 936,533; Oct. 12; Sp. p. 1976; Gaz. vol. 147; p. 326.
- Graham, H. C., Crafton, Pa. Apparatus for making nut-blanks. No. 912,669; Feb. 16; Sp. p. 3394; Gaz. vol. 139; p. 608.
- Graham, H. E., *et al.* (See McCain, W. B., assignor.)
- Graham, H. R., Jr., Palco, Kans. Toy. No. 938,844; Nov. 2; Sp. p. 842; Gaz. vol. 148; p. 135.
- Graham, J. C., Grandville, Mich. Weighing-machine. No. 918,442; Apr. 13; Sp. p. 2999; Gaz. vol. 141; p. 527.
- Graham, J. F., Chicago, Ill. Stocking-supporter. No. 917,591; Apr. 6; Sp. p. 1231; Gaz. vol. 141; p. 216.
- Graham, J. L., Reynoldsville, Pa., assignor to Wickes Brothers, Saginaw, Mich. Press-roll mechanism. No. 920,948; May 11; Sp. p. 1750; Gaz. vol. 142; p. 311.
- Graham, J. L., Reynoldsville, Pa., assignor to Wickes Brothers, Saginaw, Mich. Friction-gearing. No. 940,006; Nov. 16; Sp. p. 3429; Gaz. vol. 148; p. 591.
- Graham, L. J., Richmond, Cal. Automatic lamp-lighter. No. 943,873; Dec. 21; Sp. p. 3949; Gaz. vol. 149; p. 687.
- Graham, P. R., Petaluma, Cal. Farm-gate. No. 933,552; Sept. 7; Sp. p. 1214; Gaz. vol. 146; p. 177.
- Graham, S. J., and A. E. Fowler, Trout Lake, British Columbia, Canada. Siphon. No. 925,330; June 15; Sp. p. 4704; Gaz. vol. 143; p. 803.
- Graham, T. F., Chicago, Ill. Umbrella. No. 913,952; Mar. 2; Sp. p. 617; Gaz. vol. 140; p. 98.
- Graham, W., *et al.* (See Conklin, E. A., assignor.)
- Graham, W., Westminster, London, England. Power-hammer. No. 936,316; Oct. 12; Sp. p. 1475; Gaz. vol. 147; p. 255.
- Graham, W., and C. S. Baker, Buffalo, Wyo. Wagon-body. No. 912,840; Feb. 16; Sp. p. 3786; Gaz. vol. 139; p. 666.
- Graham, W. G., Winnipeg, Manitoba, Canada. Swingletree safety-socket. No. 921,692; May 18; Sp. p. 3304; Gaz. vol. 142; p. 588.
- Graham, W. J., Cleveland, Ohio, and J. German, Elkhart, Ind. Locomotive baffle-wall. No. 934,723; Sept. 21; Sp. p. 3520; Gaz. vol. 146; p. 613.
- Graham, W. R., Phoenix, Ariz. Ter. Gold and sand washer. No. 929,586; July 27; Sp. p. 5935; Gaz. vol. 144; p. 1043.

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- Graham, W. S., assignor to Parlin & Orendorff Company, Canton, Ill. Wheeled plow. No. 912,307; Feb. 16; Sp. p. 2645; Gaz. vol. 139; p. 485.
- Graham, W. W.; New Philadelphia, Ohio. Stovepipe. No. 940,927; Nov. 23; Sp. p. 5484; Gaz. vol. 148; p. 930.
- Grahl, G. de, Wilmsdorf, near Berlin, Germany. Boiler. No. 915,427; Mar. 16; Sp. p. 3649; Gaz. vol. 140; p. 635.
- Grahl, G. de, Wilmsdorf, near Berlin, Germany. Furnace-door. No. 942,322; Dec. 7; Sp. p. 1624; Gaz. vol. 143; p. 267.
- Grahn, P. J., Boston, Mass. Return water-tank. No. 914,138; Mar. 2; Sp. p. 1036; Gaz. vol. 140; p. 163.
- Grain Belt Car Specialty Company. (See Posson, E., assignor.)
- Grainger, C. J., *et al.* (See Milton, J. F., assignor.)
- Grala, A., Martinsdale, Mont. Potato-digger. No. 925,331; June 15; Sp. p. 4705; Gaz. vol. 143; p. 803.
- Gramm, G. G., and A. F. Timme, assignors of one-third to F. W. Mark, Worcester, Mass. Brush. No. 935,493; Sept. 28; Sp. p. 5047; Gaz. vol. 146; p. 892.
- Grams, E. R., Roesgen, N. D. Mounting for threshing-machines. No. 910,528; Jan. 26; Sp. p. 4296; Gaz. vol. 138; p. 788.
- Granbery, J. H. (See Granbery, W. H. and J. H.)
- Granbery, J. H., East Orange, N. J. Stadia-rod. No. 940,007; Nov. 16; Sp. p. 3431; Gaz. vol. 148; p. 592.
- Granbery, W. H., New York, N. Y., and J. H. Granbery, East Orange, N. J. Feeding harnessed draft-animals. No. 931,596; Aug. 17; Sp. p. 4123; Gaz. vol. 145; p. 710.
- Grand Rapids Show Case Company. (See Dodge, L. G., assignor.)
- Grand Rapids Show Case Company. (See Dodge, Freeman, and Vanderveld, assignors.)
- Grand Rapids Show Case Company. (See Freeman, W., assignor.)
- Grand Rapids Show Case Company. (See Freeman, W. F., assignor.)
- Grand Rapids Show Case Company. (See Williams, W. K., assignor.)
- Grand Rapids Show Case Company. (See Young, S. D., assignor.)
- Granda, L., Pana, Ill. Filling-can. No. 919,429; Apr. 27; Sp. p. 5301; Gaz. vol. 141; p. 917.
- Grandjean, A., San Diego, Cal. Oil-feed for carbureting apparatus. No. 912,468; Feb. 16; Sp. p. 2976; Gaz. vol. 139; p. 539.
- Grandy, J. A., McClure, Mich. Vehicle-spring. No. 920,321; May 4; Sp. p. 477; Gaz. vol. 142; p. 74.
- Graney, M. C., Hoosick Falls, N. Y. Conveyer-belt. No. 912,116; Feb. 9; Sp. p. 2234; Gaz. vol. 139; p. 386.
- Grange, H., *et al.* (See Gardner, S., assignor.)
- Granger, A. P., Nashua, Iowa. Implement for hoeing and topping growing plants. No. 913,953; Mar. 2; Sp. p. 619; Gaz. vol. 140; p. 98.
- Granger, R. D., New York, N. Y. Grate. No. 924,346; June 8; Sp. p. 2729; Gaz. vol. 143; p. 445.
- Granges, L. (See Strasburger and Granges.)
- Granitz, F. (See Bastian and Granitz.)
- Granlund, O. F., Springfield, Mass. Confectionery-machine. No. 941,070; Nov. 23; Sp. p. 5796; Gaz. vol. 148; p. 978.
- Grant, A. (See McVitie and Grant.)
- Grant, A. H. (See Peters and Grant.)
- Grant Automatic Machine Company. (See Grant, J. J., assignor.)
- Grant Automatic Machine Company. (See Grant and Fieg, assignors.)
- Grant, C. J. H., Cedar Rapids, Iowa. Valve for grain-separators. No. 913,377; Feb. 23; Sp. p. 4851; Gaz. vol. 139; p. 869.
- Grant, E., Cloquet, Minn. Folding bed. No. 917,592; Apr. 6; Sp. p. 1232; Gaz. vol. 141; p. 216.
- Grant, E. J., Los Angeles, Cal. Fruit-picker's bag. No. 929,209; July 27; Sp. p. 5189; Gaz. vol. 144; p. 920.
- Grant, F. A., Staceyville, Me. Churn. No. 941,318; Nov. 23; Sp. p. 6331; Gaz. vol. 148; p. 1053.
- Grant, F. T., *et al.* (See Coughlin, J. D., assignor.)
- Grant, H. A., *et al.* (See Jones and Gill, assignors.)
- Grant, H. C., Bayonne, N. J., assignor to Lionell Manufacturing Company. Track construction. No. 925,332; June 15; Sp. p. 4706; Gaz. vol. 143; p. 804.
- Grant, H. C., Bayonne, N. J., assignor, by mesne assignments, to Lionell Manufacturing Company. Truck. No. 931,413; Aug. 17; Sp. p. 3793; Gaz. vol. 145; p. 654.
- Grant, H. C., Bayonne, N. J., assignor, by mesne assignments, to Lionell Manufacturing Company. Truck. No. 931,414; Aug. 17; Sp. p. 3795; Gaz. vol. 145; p. 655.
- Grant, H. C., Bayonne, N. J., assignor, by mesne assignments, to Lionell Manufacturing Company. Brush-holder for motors. No. 931,415; Aug. 17; Sp. p. 3796; Gaz. vol. 145; p. 655.
- Grant, H. C., Bayonne, N. J., assignor, by mesne assignments, to Lionell Manufacturing Company. Electric motor. No. 931,416; Aug. 17; Sp. p. 3797; Gaz. vol. 145; p. 655.
- Grant, H. C., Bayonne, N. J., assignor, by mesne assignments, to Lionell Manufacturing Company. Electric toy motor. No. 931,417; Aug. 17; Sp. p. 3798; Gaz. vol. 145; p. 656.
- Grant, H. C., Bayonne, N. J., assignor, by mesne assignments, to Lionell Manufacturing Company. Railway construction. No. 931,418; Aug. 17; Sp. p. 3799; Gaz. vol. 145; p. 656.
- Grant, H. C., Bayonne, N. J., assignor to Lionell Manufacturing Company. Railway-rail. No. 932,464; Aug. 31; Sp. p. 5988; Gaz. vol. 145; p. 1041.
- Grant, H. C., Bayonne, N. J., assignor, by mesne assignments, to Lionell Manufacturing Company. Sheet-metal-bending machine. No. 935,906; Oct. 5; Sp. p. 654; Gaz. vol. 147; p. 95.
- Grant, H. E., Pittsburg, Pa. Storage gasoline apparatus. No. 939,596; Nov. 9; Sp. p. 2555; Gaz. vol. 148; p. 419.
- Grant, J. D. (See Fraser, E. M., assignor.)
- Grant, J. H. (See Mossman and Grant.)
- Grant, J. J., assignor to Grant Automatic Machine Company, Cleveland, Ohio. Multiple-spindle lathe. No. 926,736; July 6; Sp. p. 34; Gaz. vol. 144; p. 8.
- Grant, J. J., assignor to Grant Automatic Machine Company, Cleveland, Ohio. Thread-cutting attachment for automatic lathes. No. 932,607; Aug. 31; Sp. p. 6315; Gaz. vol. 145; p. 1090.
- Grant, J. J., and J. F. Fieg, assignors to Grant Automatic Machine Company, Cleveland, Ohio. Automatic lathe. No. 926,737; July 6; Sp. p. 51; Gaz. vol. 144; p. 9.
- Grant-Lees Machine Company. (See Lees, E. J., assignor.)
- Grant, M. R., Meridian, Miss. Swing attachment. No. 922,886; May 25; Sp. p. 5771; Gaz. vol. 142; p. 1006.
- Grant, O. B., Davenport, Iowa. Railway-switch stand. No. 932,859; Aug. 31; Sp. p. 6829; Gaz. vol. 145; p. 1172.
- Grant, O. B., Davenport, Iowa. Reroller. No. 938,845; Nov. 2; Sp. p. 845; Gaz. vol. 148; p. 136.
- Grant Pulley and Hardware Company. (See McQueen, U. G., assignor.)
- Grant, R. P., assignor to Beckwith Box Toe Company, Boston, Mass. Marking or printing means for leather-skiving machines. No. 928,514; July 20; Sp. p. 3770; Gaz. vol. 144; p. 661.
- Grant, T. C., Nova Glasgow, Nova Scotia, Canada. Fountain-pen. No. 933,248; Sept. 7; Sp. p. 506; Gaz. vol. 146; p. 77.
- Grant, W. A., East Orange, N. J., assignor to Royal Solvent Company. Apparatus for making soap. No. 939,906; Nov. 9; Sp. p. 3204; Gaz. vol. 148; p. 528.
- Grant, W. C. (See Darrow, G. L., assignor.)
- Grant, W. W., St. Paul, Minn. Garment-hanger. No. 924,763; June 15; Sp. p. 3589; Gaz. vol. 143; p. 616.
- Grant, W. W., St. Paul, Minn. Hanging means. No. 924,764; June 15; Sp. p. 3591; Gaz. vol. 143; p. 617.
- Graphic Arts Co. (See Levy, L. E. and M., assignors.)
- Grasberger, B. J., and J. E. Thomasson, Bumpass, Va. Poultry-coop. No. 928,961; July 27; Sp. p. 4670; Gaz. vol. 144; p. 838.
- Graser, T. T., Rochester, N. Y. Pump. No. 910,125; Jan. 19; Sp. p. 3409; Gaz. vol. 138; p. 625.
- Grasnick, K. L. W., assignor to M. Loeffler, New York, N. Y. Feed-bag. No. 912,952; Feb. 16; Sp. p. 3976; Gaz. vol. 139; p. 700.
- Grass, H. A., assignor of forty one-hundredths to L. J. Mitchell, Chicago, Ill. Massage-tool. No. 927,786; July 13; Sp. p. 2251; Gaz. vol. 144; p. 389.
- Grasso, N., New York, N. Y. Printer's quoin. No. 920,322; May 4; Sp. p. 478; Gaz. vol. 142; p. 75.
- Gratz, T. W., Jr., Olean, N. Y. Spring-wheel. No. 923,643; June 1; Sp. p. 1180; Gaz. vol. 143; p. 182.
- Gratz, W. R., New York, N. Y. Violin-bow screw. No. 937,518; Oct. 19; Sp. p. 4029; Gaz. vol. 147; p. 685.
- Grau, L. H., San Francisco, Cal. Sash-lock. No. 929,419; July 27; Sp. p. 5642; Gaz. vol. 144; p. 990.
- Grauer, R., Los Angeles, Cal. Drying apparatus. No. 920,050; Apr. 27; Sp. p. 6615; Gaz. vol. 141; p. 1125.
- Grauer, W. C., Palmer, Ill. Hay-pitcher. No. 943,930; Dec. 21; Sp. p. 4064; Gaz. vol. 149; p. 707.
- Grauhering, O. (See Korrodi and Grauhering.)
- Graupner, E., Philadelphia, Pa. Window-screen. No. 933,975; Sept. 14; Sp. p. 2061; Gaz. vol. 146; p. 340.
- Gravatt, M., Port Royal, Va. Attachment for animal-traps. No. 911,974; Feb. 9; Sp. p. 1945; Gaz. vol. 139; p. 341.
- Graver, H. F. (See Smith, Graver, and Wiegand.)
- Graves, A. H. (See Roberts, Soans, and Graves.)
- Graves, A. H., Chicago, Ill. Voucher-severing device. No. 912,981; Feb. 16; Sp. p. 4042; Gaz. vol. 139; p. 709.
- Graves, C. E., New York, N. Y. Coat-collar fastener. No. 924,765; June 15; Sp. p. 3592; Gaz. vol. 143; p. 617.
- Graves, C. H., Philadelphia, Pa. Stereoscope. No. 932,271; Aug. 24; Sp. p. 5601; Gaz. vol. 145; p. 955.



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- Graves, G. W., and J. Whittemore, Detroit, Mich., assignors to Toledo Glass Company, Toledo, Ohio. Glass gathering and shaping machine. No. 914,823; Mar. 9; Sp. p. 2454; Gaz. vol. 140; p. 411.
- Graves, G. W., and J. Whittemore, Detroit, Mich., assignors to Toledo Glass Company, Toledo, Ohio. Machine for making hollow glass articles. No. 928,261; June 1; Sp. p. 307; Gaz. vol. 143; p. 48.
- Graves, H. C. (See Lewis and Graves.)
- Graves, J., assignor to Automatic Bowling Alley Company, Milwaukee, Wis. Check-controlled game apparatus. No. 912,239; Feb. 9; Sp. p. 2454; Gaz. vol. 139; p. 423.
- Graves, J., assignor to Automatic Bowling Alley Company, Milwaukee, Wis. Game apparatus. No. 912,953; Feb. 16; Sp. p. 3977; Gaz. vol. 139; p. 700.
- Graves, J. R., and J. Benson, Amesbury, Mass. Detachable seat for automobiles, &c. No. 937,595; Oct. 19; Sp. p. 4171; Gaz. vol. 147; p. 710.
- Graves, L. E., Los Angeles, Cal. Calculating device for electrical data, &c. No. 924,058; June 8; Sp. p. 2080; Gaz. vol. 143; p. 346.
- Graves, R. L. (See Hardwick, W. A., assignor.)
- Graves, R. L., Sumpter, Oreg. Miner's lamp. No. 942,823; Dec. 7; Sp. p. 1625; Gaz. vol. 149; p. 267.
- Gravner, H. J. B., Westwood, N. J. Washcloth and towel. No. 934,724; Sept. 21; Sp. p. 3522; Gaz. vol. 146; p. 613.
- Gravity Conveyor Company. (See Schwab, M. C., assignor.)
- Gravity Lockout Company. (See Wagner and Shields, assignors.)
- Gray, A. H., Atlanta, Ga. Folding ironing-table. No. 916,696; Mar. 30; Sp. p. 6169; Gaz. vol. 140; p. 1105.
- Gray, B. D., Providence, R. I., assignor to American Locomotive Company, New York, N. Y. Motor-vehicle. No. 940,145; Nov. 16; Sp. p. 3764; Gaz. vol. 148; p. 641.
- Gray, B. F., Birmingham, England. Combined horseshoe and pad. No. 925,631; June 22; Sp. p. 5302; Gaz. vol. 143; p. 932.
- Gray, B. S., executor. (See Gray, S. B.)
- Gray, C., and O. B. Hitchcock, Horton, Kans. Headache appliance. No. 937,596; Oct. 19; Sp. p. 4172; Gaz. vol. 147; p. 710.
- Gray, C. E., *et al.* (See Bryant, J. M. and H. H., assignors.)
- Gray, C. F., assignor, by mesne assignments, to Federal Canning Machinery Company, Indianapolis, Ind. Filler. No. 925,169; June 15; Sp. p. 4413; Gaz. vol. 143; p. 753.
- Gray, C. F., Sierra Madre, Cal., assignor to Singer Manufacturing Company. Belt for transmitting power. No. 929,760; Aug. 3; Sp. p. 272; Gaz. vol. 145; p. 47.
- Gray, C. F., Sierra Madre, Cal., assignor to Singer Manufacturing Company. Sewing-machine. No. 929,761; Aug. 3; Sp. p. 273; Gaz. vol. 145; p. 47.
- Gray, C. F., Sierra Madre, Cal., assignor to Singer Manufacturing Company. Sewing-machine. No. 933,032; Aug. 31; Sp. p. 7161; Gaz. vol. 145; p. 1229.
- Gray, D., Alexandria, Ontario, Canada. Whey-measuring apparatus. No. 918,667; Apr. 20; Sp. p. 3544; Gaz. vol. 141; p. 632.
- Gray, D. C., Rahway, N. J. Adding and recording machine. No. 926,738; July 6; Sp. p. 55; Gaz. vol. 144; p. 9.
- Gray, E. B., *et al.* (See Favorite, W. T., assignor.)
- Gray, E. F. (See Lee and Gray.)
- Gray, E. S. (See Hill and Gray.)
- Gray Finishing Head Company. (See Gray, J. W., assignor.)
- Gray, G., assignor to Mianus Motor Works, Mianus, Conn. Gas-scrubber. No. 933,430; Sept. 7; Sp. p. 879; Gaz. vol. 146; p. 137.
- Gray, G. B., Pittsburg, Pa. Automatic safety signal system for railways. No. 909,083; Jan. 5; Sp. p. 1326; Gaz. vol. 138; p. 213.
- Gray, G. M., Boston, Mass. Garment. No. 927,038; July 6; Sp. p. 714; Gaz. vol. 144; p. 113.
- Gray, G. Z., Harrisburg, Pa. Smoke and spark destroyer. No. 911,817; Feb. 9; Sp. p. 1557; Gaz. vol. 139; p. 290.
- Gray, H., assignor of one-third to J. A. Kenyon, Rawtenstall, and one-third to J. W. Sykes, Broadbottom, England. Machine for beetling fabrics. No. 918,668; Apr. 20; Sp. p. 3546; Gaz. vol. 141; p. 632.
- Gray, H. A., *et al.* (See Kenan, J. J. W., assignor.)
- Gray, H. F., and F. E. Stevens, assignors to Standard Appliance Company, Columbus, Ohio. Gas-meter-connecting device. No. 909,179; Jan. 12; Sp. p. 1546; Gaz. vol. 138; p. 279.
- Gray, H. L., Stockton, Cal., assignor to Telescope Mailing Tube Manufacturing Company. Mailing-tube. No. 919,715; Apr. 27; Sp. p. 5910; Gaz. vol. 141; p. 1014.
- Gray, I. J., Lawrence, Kans. Railway-tie and rail. No. 944,133; Dec. 21; Sp. p. 4519; Gaz. vol. 149; p. 775.
- Gray, J. L., Elizabeth, N. J. Treating petroleum sludge to produce pitch, asphalt, &c. No. 923,427; June 1; Sp. p. 712; Gaz. vol. 143; p. 105.
- Gray, J. L., Elizabeth, N. J. Treating petroleum sludge. No. 923,428; June 1; Sp. p. 714; Gaz. vol. 143; p. 106.
- Gray, J. L., Elizabeth, N. J. Separating acid from petroleum sludge. No. 923,429; June 1; Sp. p. 716; Gaz. vol. 143; p. 106.
- Gray, J. L., Elizabeth, N. J. Apparatus for recovering light oils from natural gas. No. 933,976; Sept. 14; Sp. p. 2062; Gaz. vol. 146; p. 340.
- Gray, J. M., Wilmington, N. C. Violin. No. 934,068; Sept. 14; Sp. p. 2241; Gaz. vol. 146; p. 369.
- Gray, J. W., assignor to Gray Finishing Head Company, Tacoma, Wash. Planer-head. No. 934,436; Sept. 21; Sp. p. 2965; Gaz. vol. 146; p. 517.
- Gray, L. C. (See Milholland, G. A., assignor.)
- Gray, N., Jr. (See Wadhams, D. T., assignor.)
- Gray National Telautograph Company. (See Tiffany, G. S., assignor.)
- Gray, R. I. (See Harber, T., assignor.)
- Gray, S. B., deceased, Jacksonville, Ill.; B. S. Gray, executor. Motor-vehicle. No. 923,167; June 1; Sp. p. 97; Gaz. vol. 143; p. 16.
- Gray, S. B., deceased, Jacksonville, Ill.; B. S. Gray, executor. Variable-drive mechanism. No. 923,787; June 1; Sp. p. 1532; Gaz. vol. 143; p. 230.
- Gray, S. B., deceased, Jacksonville, Ill.; B. S. Gray, executor. Variable-speed mechanism. No. 923,788; June 1; Sp. p. 1535; Gaz. vol. 143; p. 231.
- Gray, S. B., deceased, Jacksonville, Ill.; B. S. Gray, executor. Motor-vehicle. No. 923,789; June 1; Sp. p. 1538; Gaz. vol. 143; p. 231.
- Gray, S. B., deceased, Jacksonville, Ill.; B. S. Gray, executor. Variable-drive mechanism. No. 926,060; June 22; Sp. p. 6211; Gaz. vol. 143; p. 1072.
- Gray, S. J., Fort Worth, Tex. Cotton-picker. No. 919,160; Apr. 20; Sp. p. 4536; Gaz. vol. 141; p. 793.
- Gray, T. (See Fraser and Gray.)
- Gray, T. G. (See Beal and Gray.)
- Gray Telephone Pay Station Company. (See Long, G. A., assignor.)
- Gray, W., *et al.* (See Taylor and Elkins, assignors.)
- Gray, W. J., Jeannette, Pa. Mantel-panel. No. 912,670; Feb. 16; Sp. p. 3395; Gaz. vol. 139; p. 608.
- Gray, W. J., Jeannette, Pa. Artificial-light shade. No. 920,732; May 4; Sp. p. 1305; Gaz. vol. 142; p. 210.
- Gray, W. J., Jeannette, Pa. Lamp-shade. No. 925,897; June 22; Sp. p. 5900; Gaz. vol. 143; p. 1019.
- Gray, W. W., *et al.* (See Bryant, J. M. and H. H., assignors.)
- Graybill, J. E., York, Pa. Fuse-holder. No. 938,477; Nov. 2; Sp. p. 48; Gaz. vol. 148; p. 10.
- Graybill, J. E., York, Pa., assignor to General Electric Company. Method and apparatus for tubulating lamp-bulbs. No. 918,669; Apr. 20; Sp. p. 3548; Gaz. vol. 141; p. 632.
- Graybill, J. E., York, Pa., assignor to General Electric Company. Machine for making incandescent-lamp mounts. No. 919,851; Apr. 27; Sp. p. 6207; Gaz. vol. 141; p. 1059.
- Graybill, J. E., York, Pa., assignor to General Electric Company. Machine for cutting glass tubes. No. 921,828; May 18; Sp. p. 3590; Gaz. vol. 142; p. 633.
- Graybill, J. E., York, Pa., assignor to General Electric Company. Glass-cutting machine. No. 921,979; May 18; Sp. p. 3892; Gaz. vol. 142; p. 681.
- Graybill, J. E., York, Pa., assignor to General Electric Company. Refilling-tool. No. 928,044; July 13; Sp. p. 2793; Gaz. vol. 144; p. 476.
- Grayson, A. L., Rutherfordton, N. C. Means for keeping accounts. No. 914,345; Mar. 2; Sp. p. 1462; Gaz. vol. 140; p. 227.
- Grayson, J. T., and J. I. Hentz, Blountstown, Fla. Clamp for fence-wires. No. 942,064; Dec. 7; Sp. p. 47; Gaz. vol. 149; p. 10.
- Graziano, N., New York, N. Y. Saddle for cart-harness. No. 918,999; Apr. 20; Sp. p. 4248; Gaz. vol. 141; p. 742.
- Grazioli, P., New York, assignor to M. Bache and I. Meister, Brooklyn, N. Y. Automatic printing attachment for wrapping-paper reels. No. 916,300; Mar. 23; Sp. p. 5354; Gaz. vol. 140; p. 949.
- Grearson, F. A. (See Thompson, C. W., assignor.)
- Great American Automatic Vending Machine Company. (See Westervelt, H. V., assignor.)
- Great Bear Spring Company. (See Emerick, F. A., assignor.)
- Great Western Manufacturing Company. (See Baylor, C. A., assignor.)
- Great Western Novelty Company. (See Schnoor, P. J. A., assignor.)
- Grebe, F. W., Philipsburg, Pa. Street-paving brick. No. 929,210; July 27; Sp. p. 5190; Gaz. vol. 144; p. 920.
- Grebel, P. J., Chicago, Ill., assignor to Manufacturers Equipment Company. Pneumatically-operated shaft. No. 942,065; Dec. 7; Sp. p. 48; Gaz. vol. 149; p. 10.
- Greear, E. M. (See Greear and Cox.)

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- Greear, P. H., and J. Mackenzie, assignors to L. V. Peek, Minneapolis, Minn. Automatic cigar cutter and lighter. No. 918,532; Apr. 20; Sp. p. 3199; Gaz. vol. 141; p. 586.
- Greear, W. B. and E. M., and D. Cox, Honaker, Va.; said Cox assignor to said W. B. and E. M. Greear. Window-sash balance. No. 943,014; Dec. 14; Sp. p. 2127; Gaz. vol. 149; p. 364.
- Green, A. W., Corunna, and W. Orth, Owosso, Mich. Guide and stop for drawers. No. 917,429; Apr. 6; Sp. p. 940; Gaz. vol. 141; p. 164.
- Green, C. B., St. Paul, Minn. Wrench. No. 912,117; Feb. 9; Sp. p. 2236; Gaz. vol. 139; p. 387.
- Green, C. E., and T. C. Brackett, assignors of one-third to G. W. Hoppes, Anderson, Ind. Fire-escape. No. 941,246; Nov. 23; Sp. p. 6179; Gaz. vol. 148; p. 1036.
- Green, C. F., Los Angeles, Cal. Antirust compound for stoves. No. 913,208; Feb. 23; Sp. p. 4503; Gaz. vol. 139; p. 811.
- Green, C. M., Lynn, Mass., assignor to General Electric Company. Magnetic separator. No. 910,664; Jan. 26; Sp. p. 4584; Gaz. vol. 138; p. 833.
- Green, C. R., assignor to National Vacuum Cleaning Company, Dayton, Ohio. Pump. No. 937,790; Oct. 26; Sp. p. 4578; Gaz. vol. 147; p. 793.
- Green, C. R., assignor to National Vacuum Cleaning Company, Dayton, Ohio. Handpiece for vacuum cleaning systems. No. 942,139; Dec. 7; Sp. p. 249; Gaz. vol. 149; p. 37.
- Green, E. H., Emeryville, Cal. Trolley. No. 909,584; Jan. 12; Sp. p. 2326; Gaz. vol. 138; p. 412.
- Green, F. F. (See Spaid and Green.)
- Green Fuel Economizer Company. (See Bassler, E., assignor.)
- Green, G., assignor of one-fourth to F. P. C. Hope and one-fourth to J. Miller, Bexhill, county of Sussex, England. Internal-combustion engine. No. 930,372; Aug. 10; Sp. p. 1518; Gaz. vol. 145; p. 275.
- Green, G. L., San Francisco, Cal. Grinding attachment for sewing-machines. No. 931,597; Aug. 17; Sp. p. 4125; Gaz. vol. 145; p. 710.
- Green, H., assignor to R. E. Dimmitt, Griggsville, Ill. Rein-holder. No. 943,537; Dec. 14; Sp. p. 3227; Gaz. vol. 149; p. 543.
- Green, H. B., Leigh-on-Sea, England. Apparatus for automatically-playing musical instruments. No. 934,606; Sept. 21; Sp. p. 3286; Gaz. vol. 146; p. 572.
- Green, I. L., Ludlow, Vt. Vacuum-cleaner. No. 941,675; Nov. 30; Sp. p. 7091; Gaz. vol. 148; p. 1198.
- Green, I. L., Ludlow, Vt. Vacuum-cleaner. No. 941,676; Nov. 30; Sp. p. 7092; Gaz. vol. 148; p. 1198.
- Green, J., Wilmington, Del. Measuring instrument. No. 925,807; June 22; Sp. p. 5712; Gaz. vol. 143; p. 589.
- Green, J. B., Wallace, Idaho. Pulp-feeder. No. 929,420; July 27; Sp. p. 5643; Gaz. vol. 144; p. 990.
- Green, J. B., assignor of one-fourth to H. A. Houston and one-fourth to H. Lieb, Wallace, Idaho. Slime-feeding device for concentrators. No. 941,918; Nov. 30; Sp. p. 7624; Gaz. vol. 148; p. 1284.
- Green, J. G., and V. A. Henry, Colorado Springs, Colo. Glass-cutting table. No. 935,014; Sept. 28; Sp. p. 4101; Gaz. vol. 146; p. 735.
- Green, J. J., Bremen, Ga. Cotton-cultivator. No. 933,977; Sept. 14; Sp. p. 2063; Gaz. vol. 146; p. 340.
- Green, J. L., Massillon, assignor of one-half to C. W. Somers, Cleveland, Ohio. Tipple. No. 919,852; Apr. 27; Sp. p. 6213; Gaz. vol. 141; p. 1060.
- Green, J. S., Pittsburg, Pa., assignor to Westinghouse Machine Company. Elastic-fluid turbine. No. 919,853; Apr. 27; Sp. p. 6215; Gaz. vol. 141; p. 1060.
- Green, J. S., Pittsburg, Pa., assignor to Westinghouse Machine Company. Elastic-fluid turbine. No. 940,802; Nov. 23; Sp. p. 5241; Gaz. vol. 148; p. 889.
- Green, J. W., Portland, assignor of one-half to J. G. Pelton, Arleta, Oreg. Drilling-machine. No. 939,907; Nov. 9; Sp. p. 3206; Gaz. vol. 148; p. 528.
- Green, K., Yazoo City, Miss. Fastener. No. 934,165; Sept. 14; Sp. p. 2447; Gaz. vol. 146; p. 402.
- Green, M., et al., trustees. (See Walker, R. L., assignor.)
- Green, M. D., Flora, Ill. Cuspidor. No. 937,519; Oct. 19; Sp. p. 4030; Gaz. vol. 147; p. 685.
- Green, O. A., New York, N. Y. Automatic load-discharging elevator. No. 923,355; June 1; Sp. p. 568; Gaz. vol. 143; p. 81.
- Green, P., Wytheville, Va. Fence-clamp. No. 930,957; Aug. 10; Sp. p. 2758; Gaz. vol. 145; p. 469.
- Green, R. C., Cleveland, Ohio. Locking device for bottles or the like. No. 924,347; June 8; Sp. p. 2730; Gaz. vol. 143; p. 445.
- Green, R. C., Cleveland, Ohio. Locking device for bottles or the like. No. 924,348; June 8; Sp. p. 2732; Gaz. vol. 143; p. 445.
- Green, R. S., Chicago, Ill. Blade-sharpening machine. No. 913,954; Mar. 2; Sp. p. 620; Gaz. vol. 140; p. 98.
- Green, W. (See Crawford, S. T., assignor.)
- Green, W., Harvey, Ill. Tire-protector. No. 927,787; July 13; Sp. p. 2253; Gaz. vol. 144; p. 389.
- Green, W. J., London, England. Branding-machine. No. 913,884; Mar. 2; Sp. p. 455; Gaz. vol. 140; p. 74.
- Green, W. L., New York, N. Y. Printing-machine. No. 917,861; Apr. 13; Sp. p. 1799; Gaz. vol. 141; p. 331.
- Greenan, H. A., assignor to National Water Main Cleaning Company, New York, N. Y. Device for cleaning pipe-lines. No. 914,824; Mar. 9; Sp. p. 2461; Gaz. vol. 140; p. 412.
- Greenan, H. A., assignor to National Water Main Cleaning Company, New York, N. Y. Device for passing cables through pipe-lines. No. 920,455; May 4; Sp. p. 737; Gaz. vol. 142; p. 118.
- Greenan, H. A., assignor, by mesne assignments, to National Water Main Cleaning Company, New York, N. Y. Device for passing cables through water-pipes. No. 934,520; Sept. 21; Sp. p. 3117; Gaz. vol. 146; p. 544.
- Greenan, H. A., Richmond, assignor to National Water Main Cleaning Company, New York, N. Y. Device for passing cables through pipe-lines. (Reissue.) No. 13,032; Nov. 2; Sp. p. 1599; Gaz. vol. 148; p. 259.
- Greenan, H. A., and F. O. Redford, assignors to American Water Main Cleaning and Contracting Co., Louisville, Ky. Cleaner for mains and pipes. No. 928,863; July 20; Sp. p. 4468; Gaz. vol. 144; p. 778.
- Greenawalt, D. F., Altoona, Pa. Hot-water heater. No. 919,344; Apr. 27; Sp. p. 5119; Gaz. vol. 141; p. 888.
- Greenawalt, J. E., Denver, Colo. Roasting-furnace. No. 919,000; Apr. 20; Sp. p. 4249; Gaz. vol. 141; p. 742.
- Greenawalt, J. E., Denver, Colo. Subjecting materials to the action of air or other gases. No. 921,645; May 11; Sp. p. 3193; Gaz. vol. 142; p. 546.
- Greenbaum, J., Berlin, Germany. Checking apparatus for synchronously-running kinematographs and talking-machines. No. 923,511; June 1; Sp. p. 888; Gaz. vol. 143; p. 135.
- Greenberg, M., et al. (See Buell, H. J., assignor.)
- Greenberg, M., assignor of one-fifth to E. Levine, one-fifth to B. Feniger, one-fifth to G. P. Baer, and one-fifth to P. Simon, Cleveland, Ohio. Water-heater. No. 918,038; Apr. 13; Sp. p. 2197; Gaz. vol. 141; p. 394.
- Greene, F., Custer, Mont. Picture-hanger. No. 913,125; Feb. 23; Sp. p. 4335; Gaz. vol. 139; p. 784.
- Greene, F. C. (See Greene, O. V., assignor.)
- Greene, F. C., Cleveland, Ohio. End-gate for mine-cars. No. 916,401; Mar. 23; Sp. p. 5557; Gaz. vol. 140; p. 984.
- Greene, F. C., Cleveland, Ohio. Car-haul. No. 943,874; Dec. 21; Sp. p. 3952; Gaz. vol. 149; p. 687.
- Greene, F. E., Courtland, Cal. Cherry-pitter. No. 944,089; Dec. 21; Sp. p. 4418; Gaz. vol. 149; p. 761.
- Greene, F. J. (See Christensen, M., assignor.)
- Greene, G., Arlington, N. J. Weeder. No. 938,759; Nov. 2; Sp. p. 666; Gaz. vol. 148; p. 106.
- Greene, G. V. K., assignor to E. A. Noblett, New York, N. Y. Electric heater. No. 910,191; Jan. 19; Sp. p. 3553; Gaz. vol. 138; p. 647.
- Greene, H. S., Woonsocket, R. I. Lubricating means. No. 918,312; Apr. 13; Sp. p. 2743; Gaz. vol. 141; p. 486.
- Greene, J. L., Burnsville, W. Va. Combined level and plumb. No. 928,600; July 20; Sp. p. 3960; Gaz. vol. 144; p. 690.
- Greene, L. A., Greenville, S. C., assignor to J. J. Welch, New York, N. Y. Cotton-grader. No. 935,149; Sept. 28; Sp. p. 4380; Gaz. vol. 146; p. 781.
- Greene, L. J., and G. Burdett, Tioga, Pa. Train-order holding and delivering device. No. 909,585; Jan. 12; Sp. p. 2327; Gaz. vol. 138; p. 412.
- Greene, O. V., assignor to F. C. Greene, Cleveland, Ohio. Car-lift. No. 918,313; Apr. 13; Sp. p. 2744; Gaz. vol. 141; p. 486.
- Greene, V. (See Ball, J. F., assignor.)
- Greene, V. D., and K. W. Fort, Chicago, Ill. Registering mechanism for telephones. No. 914,715; Mar. 9; Sp. p. 2235; Gaz. vol. 140; p. 375.
- Greener, H. M., Streator, Ill. Display-rack. No. 910,057; Jan. 19; Sp. p. 3272; Gaz. vol. 138; p. 603.
- Greener, H. M., Streator, Ill. Paper-bag holder. No. 920,132; May 4; Sp. p. 87; Gaz. vol. 142; p. 12.
- Greenfield, C. E., Syracuse, N. Y. Street-indicating device. No. 938,478; Nov. 2; Sp. p. 53; Gaz. vol. 148; p. 11.
- Greenfield, E. J., Wichita, Kans. Mounting for artificial teeth. No. 943,113; Dec. 14; Sp. p. 2346; Gaz. vol. 149; p. 398.
- Greenfield, E. T., Kiamasha, N. Y. Tire. No. 909,180; Jan. 12; Sp. p. 1547; Gaz. vol. 138; p. 279.
- Greenfield, E. T., Kiamasha, N. Y. Making tires. No. 909,181; Jan. 12; Sp. p. 1549; Gaz. vol. 138; p. 279.
- Greenfield, E. T., Kiamasha, N. Y. Junction-box. No. 916,436; Mar. 30; Sp. p. 5630; Gaz. vol. 140; p. 1020.
- Greenfield, E. T., Kiamasha, N. Y. Tubing. No. 919,001; Apr. 20; Sp. p. 4252; Gaz. vol. 141; p. 743.
- Greenfield, E. T., Kiamasha, N. Y. Stapling-machine. No. 936,996; Oct. 12; Sp. p. 2888; Gaz. vol. 147; p. 482.
- Greenfield, E. T., Kiamasha, N. Y. Tubing. No. 938,575; Nov. 2; Sp. p. 304; Gaz. vol. 148; p. 45.
- Greenfield, E. T., Kiamasha, N. Y. Apparatus for making spiral tubing. No. 939,244; Nov. 9; Sp. p. 1725; Gaz. vol. 148; p. 299.
- Greenfield, E. T., Kiamasha, assignor to Greenfield Paper Bottle Company, New York, N. Y. Bottle. No. 940,310; Nov. 16; Sp. p. 4139; Gaz. vol. 148; p. 698.
- Greenfield Paper Bottle Company. (See Greenfield, E. T., assignor.)



*Alphabetical list of patentees—Continued.*

- Greenfield, W. (See Weinfeld, W., assignor.)  
 Greengard, M. D., *et al.* (See Magul, A., assignor.)  
 Greening, S. O., *et al.* (See Herald, W. J., assignor.)  
 Greenlaw Manufacturing Company. (See Greenlaw, W. A., assignor.)  
 Greenlaw, W. A., Melrose Highlands, assignor to Greenlaw Manufacturing Company, Boston, Mass. Flexible pipe-joint. No. 916,301; Mar. 23; Sp. p. 5356; Gaz. vol. 140; p. 949.  
 Greenlaw, W. A., Melrose Highlands, assignor to Greenlaw Manufacturing Company, Boston, Mass. Flexible pipe-joint. No. 918,144; Apr. 13; Sp. p. 2405; Gaz. vol. 141; p. 431.  
 Greenlaw, W. A., Melrose Highlands, assignor to Greenlaw Manufacturing Company, Boston, Mass. Flexible pipe-joint. No. 918,443; Apr. 13; Sp. p. 3001; Gaz. vol. 141; p. 528.  
 Greenlaw, W. A., Melrose Highlands, assignor to Greenlaw Manufacturing Company, Boston, Mass. Flexible pipe-joint. No. 927,462; July 6; Sp. p. 1550; Gaz. vol. 144; p. 254.  
 Greenlaw, W. A., Melrose Highlands, assignor to Greenlaw Manufacturing Company, Boston, Mass. Flexible pipe-joint. No. 930,071; Aug. 3; Sp. p. 945; Gaz. vol. 145; p. 152.  
 Greenlaw, W. A., Melrose Highlands, assignor to Greenlaw Manufacturing Co., Boston, Mass. Flexible pipe-joint. No. 939,908; Nov. 9; Sp. p. 3208; Gaz. vol. 148; p. 529.  
 Greenleaf, A., *et al.*, executors. (See Mergenthaler, O.)  
 Greenleaf, G. S., Chicago, Ill. Fastening device. No. 931,754; Aug. 24; Sp. p. 4512; Gaz. vol. 145; p. 785.  
 Greenleaf, L. A. (See Dudley, Greenleaf, and Dudley.)  
 Greenleaf, W. H. (See Revman and Greenleaf.)  
 Greenlee, M. R., Wadestown, W. Va. Valve. No. 913,491; Feb. 23; Sp. p. 5075; Gaz. vol. 139; p. 906.  
 Greeno, L. M., Junction City, Kans. Sash-lock. No. 915,593; Mar. 16; Sp. p. 3996; Gaz. vol. 140; p. 690.  
 Greenwald, F. R., Chicago, Ill. Hat-pin guard. No. 934,306; Sept. 14; Sp. p. 2704; Gaz. vol. 146; p. 449.  
 Greenwald, J. O., Milwaukee, Wis. Credit system. No. 939,245; Nov. 9; Sp. p. 1726; Gaz. vol. 148; p. 300.  
 Greenwood, B. P., El Paso, Tex. Letter-tying device. No. 909,399; Jan. 12; Sp. p. 1955; Gaz. vol. 138; p. 349.  
 Greenwood, B. P., El Paso, Tex. Letter-tying device. No. 925,694; June 22; Sp. p. 5432; Gaz. vol. 143; p. 950.  
 Greenwood, G. A., Portland, Me., assignor to Remington Typewriter Company, Iliou, N. Y. Type-writing machine. No. 912,118; Feb. 9; Sp. p. 2238; Gaz. vol. 139; p. 387.  
 Greenwood, M. D., Hoosick Falls, N. Y. Toy pistol. No. 920,565; May 4; Sp. p. 958; Gaz. vol. 142; p. 156.  
 Greenwood, R., Tacoma, Wash. Folding umbrella. No. 912,841; Feb. 16; Sp. p. 3788; Gaz. vol. 139; p. 666.  
 Greenwood, T., Wolverley, near Kidderminster, England. Loom for the manufacture of tufted or pile fabrics. No. 915,853; Mar. 23; Sp. p. 4529; Gaz. vol. 140; p. 804.  
 Greenwood, W. W., Los Angeles, Cal. End-lock or stop-bar for printers' galleys. No. 935,653; Oct. 5; Sp. p. 55; Gaz. vol. 147; p. 11.  
 Greer, F. (See Dorff, C. J., assignor.)  
 Greer, H., Jr., Chicago, Ill. Explosive-engine. No. 926,651; June 29; Sp. p. 7385; Gaz. vol. 143; p. 1303.  
 Greer, J., Dixon, Ill. Valve for pumps. No. 908,562; Jan. 5; Sp. p. 274; Gaz. vol. 138; p. 46.  
 Greer, M. C. (See Jenkins, T. R., Jr., assignor.)  
 Greer, W. N., deceased, assignor to G. Kucera, Grand Island, Nebr.; J. C. Troyer, administrator. Head-rest. No. 915,025; Mar. 9; Sp. p. 2813; Gaz. vol. 140; p. 476.  
 Greeson, D. H., Bowie, Tex. Cotton-seed conveyer. No. 938,052; Oct. 26; Sp. p. 5117; Gaz. vol. 147; p. 880.  
 Gregg, H. E., Newport, Del. Flexible crushing-machine. No. 941,710; Nov. 30; Sp. p. 7188; Gaz. vol. 148; p. 1211.  
 Gregg, R. Y., Portales, N. Mex. Harvester. No. 936,121; Oct. 5; Sp. p. 1095; Gaz. vol. 147; p. 167.  
 Gregg, W. E. (See Otto and Douglass, assignors.)  
 Gregory, A., Durango, Mexico. Toy. No. 932,982; Aug. 31; Sp. p. 7050; Gaz. vol. 145; p. 1212.  
 Gregory, F. D., Derby, Conn. Safety gas-valve. No. 937,791; Oct. 26; Sp. p. 4580; Gaz. vol. 147; p. 793.  
 Gregory, G. L., assignor of one-half to W. A. Scott and one-fourth to O. Carter, Merkel, Tex. Header. No. 929,642; July 27; Sp. p. 6079; Gaz. vol. 144; p. 1062.  
 Gregory, G. P., Blackshear, Ga. Potato-vine cutter. No. 941,247; Nov. 23; Sp. p. 6182; Gaz. vol. 148; p. 1037.  
 Gregory, G. W. (See Petersen, A., assignor.)  
 Gregory, J. H., and F. M. Shumway, Farwell, Mich. Cuspidor. No. 936,774; Oct. 12; Sp. p. 2356; Gaz. vol. 147; p. 409.  
 Gregory, J. H., and M. L. Sias, Farwell, Mich. Wire-tier for baling-machines. No. 911,391; Feb. 2; Sp. p. 718; Gaz. vol. 139; p. 124.  
 Gregory, J. W., Coldwater, Tenn. Pneumatic gin-feeder. No. 925,435; June 15; Sp. p. 4905; Gaz. vol. 143; p. 837.  
 Gregory, W. G., and R. H. Heinen, Scranton, Pa. Latch. No. 927,043; July 6; Sp. p. 725; Gaz. vol. 144; p. 114.  
 Gregson, W., Fort Worth, Tex. Hook-and-eye box-fastener. No. 944,360; Dec. 28; Sp. p. 4991; Gaz. vol. 149; p. 878.  
 Greig Muslin Underwear Company. (See Fox, W. A., assignor.)  
 Greilick, C. L., assignor to Traverse City Chair Co., Traverse City, Mich. Adjustable foot-rest for Morris chairs. No. 939,827; Nov. 9; Sp. p. 3035; Gaz. vol. 148; p. 500.  
 Greilick, C. L., assignor to Traverse City Chair Co., Traverse City, Mich. Chair. No. 941,919; Nov. 30; Sp. p. 7627; Gaz. vol. 148; p. 1284.  
 Greiner, C., New Haven, Conn. Riveting-machine. No. 942,637; Dec. 7; Sp. p. 1264; Gaz. vol. 149; p. 207.  
 Greist Manufacturing Company. (See Beckett, F. W., assignor.)  
 Grenier, J. A., Beaver Falls, Pa. Bedstead. No. 934,607; Sept. 21; Sp. p. 3290; Gaz. vol. 146; p. 573.  
 Grenn, J. S., Chicago, Ill. Kitchen utensil. No. 925,695; June 22; Sp. p. 5433; Gaz. vol. 143; p. 951.  
 Grenzbach, G., St. Louis, Mo. Wall-coping. No. 931,922; Aug. 24; Sp. p. 4889; Gaz. vol. 145; p. 838.  
 Greth, J. C. W., assignor to Wm. B. Scaife & Sons Company, Pittsburg, Pa. Water-purifying apparatus. No. 935,303; Sept. 28; Sp. p. 4677; Gaz. vol. 146; p. 830.  
 Grether, J. L., assignor to H. Batavia, St. Louis, Mo. Sash-lock. No. 931,194; Aug. 17; Sp. p. 3317; Gaz. vol. 145; p. 577.  
 Grey, C. (See Brodie, J. E., assignor.)  
 Grey, H., assignor to American Universal Mill Company, New York, N. Y. Rolling-mill. No. 943,633; Dec. 14; Sp. p. 3458; Gaz. vol. 149; p. 576.  
 Gribbel, J., and C. Atherton, Philadelphia, Pa. Plaiting mechanism. No. 931,755; Aug. 24; Sp. p. 4513; Gaz. vol. 145; p. 785.  
 Gribben, W. (See Fraser, N. P., assignor.)  
 Gribbling, A. (See Rohrbach, Dieckmann, Gribbling, and Grote.)  
 Grieb, A., Elizabeth, N. J., assignor to Singer Manufacturing Company. Overseaming sewing-machine. No. 931,058; Aug. 17; Sp. p. 3024; Gaz. vol. 145; p. 531.  
 Grieb, A., Elizabeth, N. J., assignor to Singer Manufacturing Company. Overseaming sewing-machine. No. 932,272; Aug. 24; Sp. p. 5602; Gaz. vol. 145; p. 956.  
 Grieb, A., Elizabeth, N. J., assignor to Singer Manufacturing Company. Trimming mechanism for sewing-machines. No. 933,033; Aug. 31; Sp. p. 7167; Gaz. vol. 145; p. 1230.  
 Griepke, A. W. H., New York, N. Y. Gas turbine-engine. No. 910,665; Jan. 26; Sp. p. 4586; Gaz. vol. 138; p. 834.  
 Gries, A. T., Toledo, Ohio. Automatic shut-off valve. No. 922,578; May 25; Sp. p. 5109; Gaz. vol. 142; p. 906.  
 Griesbeck, A., New York, N. Y. Box-strap reel. No. 931,294; Aug. 17; Sp. p. 3554; Gaz. vol. 145; p. 613.  
 Grieshaber, B. (See Davis, A. A., assignor.)  
 Grieshaber, C. (See Seipel and Grieshaber.)  
 Griesinger, J., Los Angeles, Cal. Loose-leaf book. No. 911,125; Feb. 2; Sp. p. 195; Gaz. vol. 139; p. 37.  
 Griess, L. C. (See McFall and Griess.)  
 Griesser, W., Pittsburg, Pa. Triple-pipe beer-cooler. No. 912,671; Feb. 16; Sp. p. 3396; Gaz. vol. 139; p. 609.  
 Grieve, J., assignor of one-half to H. L. Hubbard, Dodge City, Kans. Check-holder. No. 910,126; Jan. 19; Sp. p. 3410; Gaz. vol. 138; p. 625.  
 Grieve, R. A., Kearney, Nebr. Barber's cabinet. No. 934,521; Sept. 21; Sp. p. 3118; Gaz. vol. 146; p. 544.  
 Grieve, T., Perth Amboy, N. J. Feed-water purifier. No. 939,010; Nov. 2; Sp. p. 1212; Gaz. vol. 148; p. 193.  
 Griffen, J. E., McGuire, Mo. Halter. No. 911,232; Feb. 2; Sp. p. 417; Gaz. vol. 139; p. 72.  
 Griffen, J. D., New York, N. Y. Elevator-indicator. No. 911,303; Feb. 2; Sp. p. 554; Gaz. vol. 139; p. 95.  
 Griffin, A. M. (See Meik, J. H., assignor.)  
 Griffin, C. E., Glendive, Mont. Soil-pulverizer. No. 936,712; Oct. 12; Sp. p. 2345; Gaz. vol. 147; p. 389.  
 Griffin, E. C., Newton, Mass. Shaft-coupling. No. 922,579; May 25; Sp. p. 5110; Gaz. vol. 142; p. 506.  
 Griffin, E. F. (See Tanner and Griffin.)  
 Griffin, G. B., and N. R. Johnson, Sioux City, Iowa. Cover for candy-pails. No. 923,381; July 20; Sp. p. 3506; Gaz. vol. 144; p. 620.  
 Griffin, G. J., Chicago, Ill. Float-valve. No. 918,314; Apr. 13; Sp. p. 2747; Gaz. vol. 141; p. 487.  
 Griffin, H. M., San Francisco, Cal. Paper-winding device. No. 935,494; Sept. 28; Sp. p. 5049; Gaz. vol. 146; p. 892.  
 Griffin, J., Melrose, Iowa. Rail-tie. No. 933,553; Sept. 7; Sp. p. 1216; Gaz. vol. 146; p. 178.  
 Griffin, J. E., *et al.* (See Jackson, J. E., assignor.)  
 Griffin, J. J., Sparks, Ga. Tie, track-fastener, and brace. No. 923,969; June 8; Sp. p. 1917; Gaz. vol. 143; p. 320.

*Alphabetical list of patentees—Continued.*

- Griffin, J. J., and A. W. Muth, Sparks, Ga. Clamp and rail-brace. No. 940,964; Nov. 23; Sp. p. 5567; Gaz. vol. 148; p. 942.
- Griffin, J. M., Detroit, Mich. Abrading-shoe for truing up car-wheels. No. 925,170; June 15; Sp. p. 4416; Gaz. vol. 143; p. 754.
- Griffin, M. V., Denver, Colo. Non-refillable bottle. No. 932,422; Aug. 24; Sp. p. 5886; Gaz. vol. 145; p. 1004.
- Griffin, P. J., Boston, Mass. Buoyant bathing-suit. No. 944,782; Dec. 28; Sp. p. 5931; Gaz. vol. 149; p. 1023.
- Griffin, T. M., Silvershoal, Ga. Chimney-holder for lamp-burners. No. 913,724; Mar. 2; Sp. p. 98; Gaz. vol. 140; p. 17.
- Griffin, W. C., Chicago, Ill. Flax-puller. No. 927,039; July 6; Sp. p. 715; Gaz. vol. 144; p. 113.
- Griffin, W. L., *et al.* (See Griffin, W. L., assignor.)
- Griffin, W. L., assignor to W. L. Griffin, Scottville, and O. A. Eaton, Kalamazoo, Mich. Harvesting device. No. 914,825; Mar. 9; Sp. p. 2462; Gaz. vol. 140; p. 412.
- Griffin, W. T., Plainfield, and B. W. Tucker, Newark, N. J., assignors to I. Pedraza, Paris, France. Drying apparatus. No. 916,437; Mar. 30; Sp. p. 5633; Gaz. vol. 140; p. 1021.
- Griffith, A. E. (See Muth, J. P., assignor.)
- Griffith, A. E., assignor of two-thirds to J. P. Muth, Jersey City, N. J. Coin-operated mechanism for vending-machines. No. 932,698; Aug. 31; Sp. p. 6506; Gaz. vol. 145; p. 1120.
- Griffith, A. J., *et al.* (See Daniel, T. J., assignor.)
- Griffith, C. J., St. Louis, Mo. Railway-crossing. No. 917,051; Apr. 6; Sp. p. 185; Gaz. vol. 141; p. 34.
- Griffith, D. L., Frostburg, Md. Nut-lock. No. 910,666; Jan. 26; Sp. p. 4588; Gaz. vol. 138; p. 834.
- Griffith, F. W. (See Williams, H. J., assignor.)
- Griffith, H. F. (See Godman and Niemeyer, assignors.)
- Griffith, I. L., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Coil-support. No. 936,622; Oct. 12; Sp. p. 2168; Gaz. vol. 147; p. 358.
- Griffith, J. B., El Paso, Tex. Toy gun. No. 918,444; Apr. 13; Sp. p. 3002; Gaz. vol. 141; p. 528.
- Griffith, J. K., Latrobe, Pa. Manufacture of steel castings. No. 936,623; Oct. 12; Sp. p. 2170; Gaz. vol. 147; p. 358.
- Griffith, L., Yonkers, N. Y., assignor, by mesne assignments, to Federal Signal Company. Electric switch for railway-traffic-controlling devices. No. 921,237; May 11; Sp. p. 2337; Gaz. vol. 142; p. 409.
- Griffith, R. H., assignor to Ohio Cultivator Company, Bellevue, Ohio. Cultivator. No. 927,788; July 13; Sp. p. 2255; Gaz. vol. 144; p. 390.
- Griffith, R. S., Berkeley, Cal. Support for telephone-receivers. No. 910,918; Jan. 26; Sp. p. 5074; Gaz. vol. 138; p. 914.
- Griffith, S., Rockford, Ill. Molding apparatus. No. 913,126; Feb. 23; Sp. p. 4336; Gaz. vol. 139; p. 784.
- Griffith, W., Pittsburg, Pa. Plating metals. No. 936,713; Oct. 12; Sp. p. 2347; Gaz. vol. 147; p. 389.
- Griffith, W., Pittsburg, Pa. Uniting metals. No. 938,377; Oct. 26; Sp. p. 5340; Gaz. vol. 147; p. 991.
- Grilliths, G., Los Angeles, Cal., assignor of one-half to Occidental Fuel Company. Domestic or steam-producing fuel. No. 934,307; Sept. 14; Sp. p. 2706; Gaz. vol. 146; p. 449.
- Griffiths G. H., Cleveland, Ohio. Paper receptacle. No. 940,592; Nov. 16; Sp. p. 4762; Gaz. vol. 148; p. 793.
- Griffiths, G. T. (See Russ, R. C., assignor.)
- Griffiths, R. T., Pittsburg, Pa. Mixing and kneading machine. No. 912,842; Feb. 16; Sp. p. 3789; Gaz. vol. 139; p. 666.
- Griffiths, W. U., Philadelphia, Pa. Apparatus for flushing water-closets. No. 911,872; Feb. 9; Sp. p. 1654; Gaz. vol. 139; p. 306.
- Griggs, A., White Store, N. C. Churn. No. 923,644; June 1; Sp. p. 1182; Gaz. vol. 143; p. 182.
- Griggs, T. G., East Orange, N. J. Poultry-picker. No. 920,566; May 4; Sp. p. 960; Gaz. vol. 142; p. 156.
- Grillet, N. (See Paulard and Grillet.)
- Grime, F. (See Grime, F., assignor.)
- Grime, F., assignor of one-half to F. Grime, Fort Wayne, Ind. Motor-vehicle steering-gear attachment. No. 935,601; Sept. 28; Sp. p. 5295; Gaz. vol. 146; p. 929.
- Grimes C. D. (See Eilerman, Grimes, and Major.)
- Grimes Company, Geo. W. (See Shafer, O. E., assignor.)
- Grimes, H. S., Portsmouth, Ohio, and C. L. McCloud, Kenilworth, Ill. Cinder-guard. No. 917,593; Apr. 6; Sp. p. 1233; Gaz. vol. 141; p. 216.
- Grimes, J. L., Baltimore, Md. Safety-razor. No. 930,373; Aug. 10; Sp. p. 1519; Gaz. vol. 145; p. 276.
- Grimler, F. G., Buffalo, N. Y. Sectional stand. No. 912,308; Feb. 16; Sp. p. 2648; Gaz. vol. 139; p. 486.
- Grimm, C. A., New York, N. Y. Combined cash-register and money-changer. No. 936,122; Oct. 5; Sp. p. 1097; Gaz. vol. 147; p. 167.
- Grimm, G. F., Evansville, Ind. Strainer. No. 936,997; Oct. 12; Sp. p. 2892; Gaz. vol. 147; p. 482.
- Grimm, G. H. (See Redington, T. G., assignor.)
- Grimm, J., *et al.* (See Fesenbek, C., assignor.)
- Grimm, P. H., Glen Cove, N. Y. Sulfur-burner. No. 924,980; June 15; Sp. p. 4046; Gaz. vol. 143; p. 689.
- Grimm, W., and W. F. Drexler, Jr., assignors to Interlocking Fence Company, Morton, Ill. Wire-fabric machine. No. 923,645; June 1; Sp. p. 1183; Gaz. vol. 143; p. 182.
- Grimm, W., and W. F. Drexler, Jr., assignors to Interlocking Fence Company, Morton, Ill. Wire-stay-bending machine. No. 936,123; Oct. 5; Sp. p. 1099; Gaz. vol. 147; p. 168.
- Grimme, F., Chicago, Ill. Binder-frame. No. 922,693; May 25; Sp. p. 5347; Gaz. vol. 142; p. 944.
- Grimmer, J., Griffith, Ind. Nut-lock. No. 934,522; Sept. 21; Sp. p. 3120; Gaz. vol. 146; p. 544.
- Grimson, S., New York, N. Y. Device for teasing cloth and other fabrics. No. 922,887; May 25; Sp. p. 5772; Gaz. vol. 142; p. 1006.
- Grimwood, O., Owensville, Ind. Loader and unloader attachment. No. 929,937; Aug. 3; Sp. p. 673; Gaz. vol. 145; p. 107.
- Grindle, W. W. (See Sweeny and Grindle.)
- Grindle, W. W., and J. S. Sweeny, Decatur, Ill. Feed-water heater. No. 928,962; July 27; Sp. p. 4672; Gaz. vol. 144; p. 838.
- Grings, C. H., Dubuque, Iowa. Harness-saddle. No. 911,037; Feb. 2; Sp. p. 28; Gaz. vol. 139; p. 7.
- Grinnell, H. D., New Bedford, Mass. Electric switch. No. 936,775; Oct. 12; Sp. p. 2458; Gaz. vol. 147; p. 409.
- Ginnell, R., Providence, R. I., assignor to General Fire Extinguisher Company, New York, N. Y. Alarm-valve. No. 933,173; Sept. 7; Sp. p. 286; Gaz. vol. 146; p. 48.
- Griscom-Spencer Company. (See Bunnell, S. H., assignor.)
- Griscom-Spencer Company. (See Row, R. K., assignor.)
- Grisell, H. L., and H. Haley, Ozark, Mo. Seed-planter. No. 909,289; Jan. 12; Sp. p. 1749; Gaz. vol. 138; p. 314.
- Griser, L. W., St. Louis, Mo. Lamp. No. 926,406; June 29; Sp. p. 6931; Gaz. vol. 143; p. 1221.
- Griser, L. W., St. Louis, Mo. Lamp. No. 926,407; June 29; Sp. p. 6932; Gaz. vol. 143; p. 1221.
- Griseri, L., New York, N. Y. Automatic piano. No. 919,002; Apr. 20; Sp. p. 4254; Gaz. vol. 141; p. 743.
- Grisham, W. E., Tillar, Ark. Cotton-tie buckle. No. 923,042; May 25; Sp. p. 6066; Gaz. vol. 142; p. 1056.
- Grisson, W. H., New York, N. Y. Die. No. 928,256; July 20; Sp. p. 3249; Gaz. vol. 144; p. 576.
- Grist, C. J., London, England. Treating metals, such as steel or steel alloys. No. 916,302; Mar. 23; Sp. p. 5357; Gaz. vol. 140; p. 930.
- Griswold, C. C., and E. C. Chambers, Chicago, Ill. Circular stone-saw. No. 925,333; June 15; Sp. p. 4707; Gaz. vol. 143; p. 804.
- Griswold, G. C., Madison, Ohio. Centrifugal spreader. No. 921,101; May 11; Sp. p. 2062; Gaz. vol. 142; p. 363.
- Griswold, G. M., Kingman, Kans. Brick-machine. No. 928,913; July 20; Sp. p. 4579; Gaz. vol. 144; p. 797.
- Griswold, H. D. (See Dexter, G. L., assignor.)
- Griswold, M., Jr., Erie, Pa., assignor to General Electric Company. Socket-support for electric sad-irons. No. 918,533; Apr. 20; Sp. p. 3202; Gaz. vol. 141; p. 586.
- Griswold, M. W., Highwood, N. J. Sash-lock. No. 926,482; June 29; Sp. p. 7067; Gaz. vol. 143; p. 1246.
- Griswold, R., Denver, Colo. High-service dam. No. 929,667; Aug. 3; Sp. p. 46; Gaz. vol. 145; p. 10.
- Griswold, R. A., and J. Zang, Seattle, Wash. Position-indicator for elevators. No. 929,211; July 27; Sp. p. 5192; Gaz. vol. 144; p. 921.
- Grirolas, C., St. Cloud, France. Hardening clockwork pivot-holes. No. 915,762; Mar. 23; Sp. p. 4368; Gaz. vol. 140; p. 776.
- Grirolas, C., St. Cloud, France. Rotary pendulum-bob. No. 937,792; Oct. 26; Sp. p. 4582; Gaz. vol. 147; p. 794.
- Grix, W., Schöneberg, near Berlin, Germany. Gas-igniting device. No. 933,431; Sept. 7; Sp. p. 880; Gaz. vol. 146; p. 138.
- Grizel, W. H., Iowa City, Iowa. Scoop-board. No. 929,085; July 27; Sp. p. 4930; Gaz. vol. 144; p. 879.
- Grizzell, J., Elwood City, Pa. Window-fixture. No. 934,308; Sept. 14; Sp. p. 2707; Gaz. vol. 146; p. 449.
- Grizzell, J., Elwood City, Pa. Curtain-fastener. No. 936,884; Oct. 12; Sp. p. 2674; Gaz. vol. 147; p. 446.
- Groat, H. (See Cozzens, C. E., assignor.)
- Grob, A., assignor to Basile Chemical Works, Basel, Switzerland. Vat dye and making same. No. 915,346; Mar. 16; Sp. p. 3482; Gaz. vol. 140; p. 608.
- Grobe, C. W., Troy, N. Y. Dust-pan attachment. No. 924,059; June 8; Sp. p. 2082; Gaz. vol. 143; p. 347.
- Grobes, H. H., Jersey City, N. J. Pneumatic hammer. No. 939,828; Nov. 9; Sp. p. 3038; Gaz. vol. 148; p. 501.
- Grobet, G. (See Clement and Langhard, assignors.)
- Grobey, J. M. L., Pittsburg, Pa. Attachment for umbrellas. No. 926,483; June 29; Sp. p. 7069; Gaz. vol. 143; p. 1246.
- Grode, F. F., Wabash, Ind. Furniture. No. 911,233; Feb. 2; Sp. p. 418; Gaz. vol. 139; p. 72.
- Grodsky, A., Cincinnati, Ohio. Tobacco-stemming machine. No. 933,978; Sept. 14; Sp. p. 2064; Gaz. vol. 146; p. 341.
- Groeber, P., Rutherford, N. J. Covering means. No. 915,095; Mar. 16; Sp. p. 2971; Gaz. vol. 140; p. 526.
- Groebli, J. A., New York, N. Y. Jacquard-mechanism. No. 924,454; June 8; Sp. p. 2924; Gaz. vol. 143; p. 479.



*Alphabetical list of patentees—Continued.*

- Groebli, J. A., New York, N. Y. Protective device for jacquard-card-punching machines. No. 924,610; June 8; Sp. p. 3257; Gaz. vol. 143; p. 531.
- Groebli, J. A., assignor to Kursheedt Manufacturing Company, New York, N. Y. Jacquard mechanism for embroidering-machines. No. 911,234; Feb. 2; Sp. p. 421; Gaz. vol. 139; p. 73.
- Groebli, J. A., assignor to Kursheedt Manufacturing Company, New York, N. Y. Stop mechanism for embroidering-machines. No. 911,235; Feb. 2; Sp. p. 424; Gaz. vol. 139; p. 73.
- Groebli, J. A., assignor to Kursheedt Manufacturing Company, New York, N. Y. Jacquard-card-take-up mechanism. No. 911,236; Feb. 2; Sp. p. 427; Gaz. vol. 139; p. 73.
- Groebli, J. A., assignor to Kursheedt Manufacturing Company, New York, N. Y. Tension mechanism. No. 926,250; June 29; Sp. p. 6639; Gaz. vol. 143; p. 1171.
- Greene, W. F. (See Le Blond and Greene.)
- Groesbeck, T., Cincinnati, Ohio. Apparatus for detecting and indicating gases in the atmosphere. No. 943,015; Dec. 14; Sp. p. 2128; Gaz. vol. 149; p. 364.
- Groff, F., St. Johnsville, N. Y. Vehicle cushion-wheel. No. 928,601; July 20; Sp. p. 3961; Gaz. vol. 144; p. 691.
- Grogan, J. J., South Bend, Ind. Loom. No. 912,309; Feb. 16; Sp. p. 2650; Gaz. vol. 139; p. 486.
- Grogan, R., and C. Henson, Canton, N. C. Log-conveyer. No. 939,011; Nov. 2; Sp. p. 1214; Gaz. vol. 148; p. 194.
- Grohmann, C. L., assignor to Pratt & Whitney Company, Hartford, Conn. Variable-speed mechanism. No. 927,525; July 13; Sp. p. 1693; Gaz. vol. 144; p. 302.
- Grohmann, C. L., assignor to Pratt & Whitney Company, Hartford, Conn. Head-adjusting mechanism. No. 938,479; Nov. 2; Sp. p. 56; Gaz. vol. 148; p. 11.
- Gronberg, J. G. (See Thoits and Gronberg.)
- Grönbladh, O., Stockholm, Sweden. Pressure-burner for petroleum incandescent lamps. No. 916,438; Mar. 30; Sp. p. 5638; Gaz. vol. 140; p. 1021.
- Gröndal, G., Djursholm, Sweden, assignor to American Gröndal Kjellin Company, New York, N. Y. Furnace for reducing ores. No. 936,124; Oct. 5; Sp. p. 1107; Gaz. vol. 147; p. 168.
- Gröndal Kjellin Company. (See Frick, O., assignor.)
- Gröndal Kjellin Company. (See Röchling and Rodenhauser, assignors.)
- Gronke, W., Canora, Saskatchewan, Canada. Snap-hook. No. 922,473; May 25; Sp. p. 4894; Gaz. vol. 142; p. 872.
- Grönvall, A., Skien, Norway. Boiler-flue cleaner. No. 924,611; June 8; Sp. p. 3263; Gaz. vol. 143; p. 531.
- Grönvall, E. A. A., A. R. Lindblad, and O. Stålhane, Ludvika, Sweden. Transformer-furnace. No. 942,961; Dec. 14; Sp. p. 1996; Gaz. vol. 148; p. 346.
- Grönvall, E. A. A., A. R. Lindblad, and O. Stålhane, Ludvika, Sweden. Electric furnace. No. 943,224; Dec. 14; Sp. p. 2557; Gaz. vol. 149; p. 434.
- Groobey, G. (See Phillips, C., assignor.)
- Groom, M. W., San Jose, Cal. Apparatus for cooling fruits. No. 939,685; Nov. 9; Sp. p. 2735; Gaz. vol. 148; p. 452.
- Groom, W. L., Coal Valley, Ala. Combined mining and track tool. No. 911,038; Feb. 2; Sp. p. 30; Gaz. vol. 139; p. 7.
- Groom, W. P., Brooklyn, N. Y. Safety device for elevators. No. 912,560; Feb. 16; Sp. p. 3183; Gaz. vol. 139; p. 571.
- Groome, C. A., *et al.* (See Ellington, G. W., assignor.)
- Groome, Z. L., *et al.* (See Ellington, G. W., assignor.)
- Gropengieszer, A., Cincinnati, Ohio. Device for the consumption of smoke in furnaces. No. 912,561; Feb. 16; Sp. p. 3188; Gaz. vol. 139; p. 571.
- Gropengieszer, A., Cincinnati, Ohio. Smoke-consuming furnace. No. 929,212; July 27; Sp. p. 5194; Gaz. vol. 144; p. 921.
- Gropper, O. S. (See Michel, F., assignor.)
- Gropper, S., and G. P. Schmidt; said Schmidt assignor to S. Gropper, New York, N. Y. Top. No. 928,257; July 20; Sp. p. 3251; Gaz. vol. 144; p. 577.
- Grose, J. E. H., Germiston, Transvaal. Rock-drilling machine. No. 937,237; Oct. 19; Sp. p. 3413; Gaz. vol. 147; p. 591.
- Groseclose, G. W., near Zenith, Kans. Guide for listers. No. 924,766; June 15; Sp. p. 3594; Gaz. vol. 143; p. 617.
- Groshon, J. A., New York, N. Y. Turbine. No. 921,238; May 11; Sp. p. 2339; Gaz. vol. 142; p. 410.
- Gross, A. R., Catonsville, assignor of one-half to J. D. Brown, Baltimore, and one-half to J. T. Gillelan, Emmitsburg, Md. Automatic syrup delivery for soda-fountains. No. 932,386; Aug. 24; Sp. p. 5809; Gaz. vol. 145; p. 993.
- Gross, C. C. (See Gross, M. K. and C. C.)
- Gross, C. C. and M. K., assignors of one-fourth to W. Baird, Jacksboro, and one-fourth to J. G. Duncan, Knoxville, Tenn. Rail-joint and tie-bar and nut-lock. No. 938,314; Oct. 26; Sp. p. 5692; Gaz. vol. 147; p. 969.
- Gross, E. P. (See Gross, F. W. and E. P.)
- Gross, F. D., assignor of one-half to Colorado Iron Works Company, Denver, Colo. Tap-spout for smelting-furnaces. No. 910,371; Jan. 19; Sp. p. 3958; Gaz. vol. 138; p. 712.
- Gross, F. H., Washington, Ind. Screw-cap. No. 937,238; Oct. 19; Sp. p. 3418; Gaz. vol. 147; p. 591.
- Gross, F. W. and E. P., Decorah, Iowa. Leveling device for threshing-machines. No. 919,854; Apr. 27; Sp. p. 6218; Gaz. vol. 141; p. 1061.
- Gross, G. (See McNamara, C. J., assignor.)
- Gross, J. C., *et al.* (See Fry, F. L., assignor.)
- Gross, M. K. (See Gross, C. C. and M. K.)
- Gross, M. K. and C. C., assignors of one-fourth to R. D. Perkins and one-fourth to W. Baird, LaFollette, Tenn. Splice-bar. No. 915,952; Mar. 23; Sp. p. 4712; Gaz. vol. 140; p. 836.
- Groshe, H. G., assignor to American Ironing Machine Co., Chicago, Ill. Ironing-machine. No. 914,716; Mar. 9; Sp. p. 2239; Gaz. vol. 140; p. 376.
- Grosskopf, W., New York, N. Y. Band-saw filing and setting machine. No. 934,967; Sept. 21; Sp. p. 4001; Gaz. vol. 146; p. 695.
- Grossmann, A., Dresden, Germany. Governor for speed-indicators. No. 941,516; Nov. 30; Sp. p. 6773; Gaz. vol. 148; p. 1147.
- Grossmann, A., assignor to Kabelwerk Rheydt Actien-Gesellschaft, Rheydt, Germany. Gas-lamp lighting and extinguishing system. No. 931,412; Aug. 17; Sp. p. 3786; Gaz. vol. 145; p. 654.
- Grossman, S., Pittsburg, Pa., assignor to Edwin B. Stimpson Company, New York, N. Y. Washer or button feeding attachment for setting-machines. No. 925,088; June 15; Sp. p. 4256; Gaz. vol. 143; p. 725.
- Grote, L. (See Rohrbach, Dieckmann, Gribbling, and Grote.)
- Grotentrath, F., Milwaukee, Wis. Grain cleaner and separator. No. 938,576; Nov. 2; Sp. p. 306; Gaz. vol. 148; p. 45.
- Grothe, A., and H. F. Carter, Mexico, Mexico. Apparatus for filtering and washing the filtered material. No. 938,378; Oct. 26; Sp. p. 5841; Gaz. vol. 147; p. 991.
- Grott, F., assignor of eleven-twentieths to J. Winters and M. Winters, New York, N. Y. Safety gas appliance. No. 923,646; June 1; Sp. p. 1192; Gaz. vol. 143; p. 183.
- Grounds, G. H., Chicago, Ill. Game apparatus. No. 923,830; June 8; Sp. p. 1661; Gaz. vol. 143; p. 275.
- Grout Brothers Automobile Company. (See Radford, H. L., assignor.)
- Grout, G. R., Wood Green, London, England. Variable-throw crank. No. 935,495; Sept. 28; Sp. p. 5051; Gaz. vol. 146; p. 892.
- Grout, M. B., Chicago, Ill. Roller-skate. No. 921,102; May 11; Sp. p. 2063; Gaz. vol. 142; p. 363.
- Grouvelle, P. J., and E. H. Arquembourg, Paris, France. Carbureter for internal-combustion engines. No. 932,860; Aug. 31; Sp. p. 6833; Gaz. vol. 145; p. 1172.
- Grouvelle, P. J., E. H. Arquembourg, and L. J. Joret, Paris, France. Tube. No. 910,192; Jan. 19; Sp. p. 3555; Gaz. vol. 138; p. 647.
- Grove, A. H., Indianapolis, Ind. Revolvable sign. No. 932,120; Aug. 24; Sp. p. 5311; Gaz. vol. 145; p. 905.
- Grove, G. H., Harrisburg, Pa. Drawing-table. No. 927,526; July 13; Sp. p. 1696; Gaz. vol. 144; p. 302.
- Grove, J. A., Bluffton, Ind. Fire-escape. No. 932,699; Aug. 31; Sp. p. 6508; Gaz. vol. 145; p. 1121.
- Grove, J. R., assignor of two-thirds to G. L. Whitehead, Philipsburg, Pa., and E. A. Pancoast, Maple Shade, N. J. Gripper attachment. No. 922,762; May 25; Sp. p. 5490; Gaz. vol. 142; p. 966.
- Grove, T. I., Hartland, Minn. Jar-cover. No. 918,315; Apr. 13; Sp. p. 2749; Gaz. vol. 141; p. 487.
- Grover, B. W., assignor of one-half to B. A. Fouché, Fremont, Ohio. Baby-carriage storm-hood. No. 916,439; Mar. 30; Sp. p. 5639; Gaz. vol. 140; p. 1021.
- Grover, C. C., Philadelphia, Pa. Tube-blower. No. 925,334; June 15; Sp. p. 4709; Gaz. vol. 143; p. 804.
- Grover, C. S. (See Wilkins, T. M., assignor.)
- Grover, G. B., Lynn, Mass. Wedge-stripping machine. No. 920,456; May 4; Sp. p. 738; Gaz. vol. 142; p. 118.
- Grover, G. B., Lynn, Mass. Machine for assembling heel-blanks. No. 920,457; May 4; Sp. p. 741; Gaz. vol. 142; p. 118.
- Grover, G. B., Lynn, Mass. Machine for cutting the lips of heel-blanks. No. 927,140; July 6; Sp. p. 917; Gaz. vol. 144; p. 148.
- Grover, G. B., assignor to W. J. Young Machinery Company, Lynn, Mass. Heel-compressing machine. No. 939,686; Nov. 9; Sp. p. 2736; Gaz. vol. 148; p. 452.
- Grover & Lee Company. (See Lee, A. P., assignor.)
- Grover, W. B., Philadelphia, Pa. Clothes-steamer. No. 915,763; Mar. 23; Sp. p. 4368; Gaz. vol. 140; p. 776.
- Grover, W. B., Philadelphia, Pa. Penholder. No. 938,760; Nov. 2; Sp. p. 667; Gaz. vol. 148; p. 106.

*Alphabetical list of patentees—Continued.*

- Groves, R. J., Stafford, Kans. Implement for shocking grain. No. 922,136; May 18; Sp. p. 4194; Gaz. vol. 142; p. 733.
- Groves, S. S., Loraine, Ill. Convertible ladder. No. 920,733; May 4; Sp. p. 1306; Gaz. vol. 142; p. 210.
- Grow, J., Alameda, Cal. Hydrocarbon-furnace. No. 911,587; Feb. 9; Sp. p. 1098; Gaz. vol. 139; p. 214.
- Grub, A., Chicago, Ill. Floor-scrubbing machine. No. 909,084; Jan. 5; Sp. p. 1336; Gaz. vol. 138; p. 214.
- Grub, A., Chicago, Ill. Fish-scaling machine. No. 935,602; Sept. 28; Sp. p. 5296; Gaz. vol. 146; p. 929.
- Grubb, C. G. (See Kilgore, J. C., assignor.)
- Grubb, J. R., Williamston, S. C. Waste-proof-traveler magazine. No. 932,983; Aug. 31; Sp. p. 7051; Gaz. vol. 145; p. 1212.
- Grubb, O. A. (See Bradbury and Grubb.)
- Gruber, C., Philadelphia, Pa. Box-kite. No. 927,965; July 13; Sp. p. 2640; Gaz. vol. 144; p. 449.
- Gruendel, W., St. Louis, Mo. Pulverizer. No. 916,697; Mar. 30; Sp. p. 6170; Gaz. vol. 140; p. 1105.
- Gruenewald, W. A., and E. G. Wright, St. Louis, Mo. Vehicle-wheel. No. 912,119; Feb. 9; Sp. p. 2240; Gaz. vol. 139; p. 387.
- Gruenfeldt, E., assignor to Baker Motor Vehicle Company, Cleveland, Ohio. Control for motor systems. No. 913,282; Feb. 23; Sp. p. 4656; Gaz. vol. 139; p. 835.
- Gruenfeldt, E., assignor to Baker Motor Vehicle Company, Cleveland, Ohio. System of electrical control for motor-vehicles. No. 913,283; Feb. 23; Sp. p. 4659; Gaz. vol. 139; p. 836.
- Gruenfeldt, E., assignor to Baker Motor Vehicle Company, Cleveland, Ohio. Motor-vehicle construction. No. 941,517; Nov. 30; Sp. p. 6775; Gaz. vol. 148; p. 1147.
- Gruer, F. H., Oakland, Cal. Tool. No. 939,496; Nov. 9; Sp. p. 2325; Gaz. vol. 148; p. 286.
- Gruhlke, A. C., Waterloo, Ind. Cigar-lighter. No. 925,171; June 15; Sp. p. 4417; Gaz. vol. 143; p. 754.
- Gruhn, C. L., New York, N. Y. Device for operating elevator-doors. No. 935,103; Sept. 28; Sp. p. 4291; Gaz. vol. 146; p. 767.
- Gruis, A. H., Sibley, Iowa. Ax-handle protector. No. 925,335; June 15; Sp. p. 4710; Gaz. vol. 143; p. 804.
- Gruitsch, A., assignor to Buffalo Specialty Company, Buffalo, N. Y. Hacksaw-machine. No. 924,767; June 15; Sp. p. 3595; Gaz. vol. 143; p. 617.
- Grund, R. T., Chicago, Ill. Dress-shield device. No. 944,090; Dec. 21; Sp. p. 4419; Gaz. vol. 149; p. 761.
- Grund, S., Chicago, Ill. Reversible steam-turbine. No. 925,089; June 15; Sp. p. 4259; Gaz. vol. 143; p. 725.
- Grunder, C., Pittsburg, Pa. Tool-holder. No. 942,034; Nov. 30; Sp. p. 7837; Gaz. vol. 148; p. 1321.
- Grundman, A. J. (See Miller, H. J., assignor.)
- Grundmann, A., Waldenburg, Germany. Shelf or case. No. 918,039; Apr. 13; Sp. p. 2198; Gaz. vol. 141; p. 395.
- Grundy, C. H. (See Extrom and Grundy.)
- Grundy, J., Paterson, N. J. Game apparatus. No. 935,755; Oct. 5; Sp. p. 279; Gaz. vol. 147; p. 45.
- Grundy, J. R., assignor to Charles Bond Company, Philadelphia, Pa. Insulating shaft-coupling. No. 939,829; Nov. 9; Sp. p. 3040; Gaz. vol. 148; p. 501.
- Grundy, O. J., Milan township, De Kalb county, Ill. Manure-spreader. No. 921,103; May 11; Sp. p. 2065; Gaz. vol. 142; p. 363.
- Gruener, B. S., Alexander City, Ala. Towel-rack. No. 925,473; June 22; Sp. p. 4987; Gaz. vol. 143; p. 880.
- Grüniger, J., New York, N. Y. Automatic air-compressor. No. 922,694; May 25; Sp. p. 5350; Gaz. vol. 142; p. 944.
- Grünthal, S., Munich, Germany. Ash-tray. No. 939,909; Nov. 9; Sp. p. 3210; Gaz. vol. 148; p. 529.
- Grunwald, C., Bredeley, Germany. Armor-piercing projectile. No. 927,852; July 13; Sp. p. 2400; Gaz. vol. 144; p. 410.
- Grunwald, C., Bredeley, Germany. Melting-hearth for electric induction-furnaces. No. 943,403; Dec. 14; Sp. p. 2939; Gaz. vol. 149; p. 495.
- Grunwaldt, A. W., Abrams, Wis. Grain sprouting or germinating apparatus. No. 922,888; May 25; Sp. p. 5774; Gaz. vol. 142; p. 1007.
- Gruessendorf, G., Hanover, Germany. Safety-valve for steam, compressed air, or gas. No. 937,597; Oct. 19; Sp. p. 4173; Gaz. vol. 147; p. 711.
- Gruiter, R., assignor to Chemische Werke vorm. Dr. Heinrich Byk, Charlottenburg, Germany. Theophyllin compound. No. 919,161; Apr. 20; Sp. p. 4537; Gaz. vol. 141; p. 793.
- Grütfeien, W., Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Mercury salt of para-aminophenylarsinic acid. No. 914,408; Mar. 9; Sp. p. 1611; Gaz. vol. 140; p. 274.
- Guastavino, R., deceased, Rhododendron, N. C.; Guastavino, R., Jr., W. E. Blodgett, and A. E. Robst, executors. Structure of masonry and steel. No. 915,026; Mar. 9; Sp. p. 2814; Gaz. vol. 140; p. 476.
- Guastavino, R., Jr., et al., executors. (See Guastavino, R.)
- Guay, E. J., Lynn, Mass., assignor to General Electric Company. Flexible cable for lamps. No. 937,435; Oct. 19; Sp. p. 3848; Gaz. vol. 147; p. 655.
- Gubbins, J. (See Settergren, B., assignor.)
- Gubin, R., assignor to Gubinol Gesellschaft M. B. H., Vienna, Austria-Hungary. Method and device for preparing metal leaves for raised-printing impressions or for other purposes. No. 929,421; July 27; Sp. p. 5645; Gaz. vol. 144; p. 991.
- Gubinol Gesellschaft M. B. H. (See Gubin, R., assignor.)
- Gubitz, W. F. (See Church, W. G., assignor.)
- Gubrud, A. P., Hudson, S. D. Machine for preparing and ridging corn-ground. No. 928,122; July 13; Sp. p. 2925; Gaz. vol. 144; p. 500.
- Gucken, F. J., Philadelphia, Pa. Motor-starting device. No. 916,303; Mar. 23; Sp. p. 5359; Gaz. vol. 140; p. 930.
- Guedesse, L., Woonsocket, R. I. Float-valve. No. 916,927; Mar. 30; Sp. p. 6604; Gaz. vol. 140; p. 1177.
- Guéniffet, J., and J. Nicault, assignors to Société Anonyme des Usines A. E. Decoufle, Paris, France. Coating cigarette-tubes. No. 921,104; May 11; Sp. p. 2066; Gaz. vol. 142; p. 364.
- Guenther, B. F. (See Seiffert, P. E., assignor.)
- Guenther, E., West New York, N. J. Circulating-pump. No. 944,032; Dec. 21; Sp. p. 4304; Gaz. vol. 149; p. 742.
- Guenther, W. A., Pittsburg, Pa. Meat-conveyer. No. 941,248; Nov. 23; Sp. p. 6183; Gaz. vol. 148; p. 1037.
- Guenzel, P. A., Bartlett, Tex. Baling-press. No. 935,255; Sept. 28; Sp. p. 4583; Gaz. vol. 146; p. 815.
- Guérineau, A., Secondigny, France. Gage for watch-glasses and grooves and filets. No. 920,051; Apr. 27; Sp. p. 6619; Gaz. vol. 141; p. 1125.
- Guerrant, G. M., assignor of one-half to T. L. Sydnor, Danville, Va. Automatic picture-exhibiting apparatus. No. 926,939; July 6; Sp. p. 483; Gaz. vol. 144; p. 78.
- Guerrant, G. M., and T. L. Sydnor, Danville, Va. Advertising device. No. 914,656; Mar. 9; Sp. p. 2088; Gaz. vol. 140; p. 355.
- Guerry, B., Garrison, N. Y. Puzzle-box. No. 933,432; Sept. 7; Sp. p. 882; Gaz. vol. 146; p. 138.
- Guertin, V., Montreal, Quebec, Canada. Mailing-tube. No. 940,146; Nov. 16; Sp. p. 3766; Gaz. vol. 148; p. 642.
- Guett, M., assignor to Hart & Hegeman Manufacturing Company, Hartford, Conn. Making interlocking joints. No. 935,970; Oct. 5; Sp. p. 789; Gaz. vol. 147; p. 117.
- Guett, M., assignor to Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 943,016; Dec. 14; Sp. p. 2130; Gaz. vol. 149; p. 365.
- Guethoff, F., Three Rivers, Mich. Union or combination suit. No. 915,594; Mar. 16; Sp. p. 3997; Gaz. vol. 140; p. 690.
- Guetton, J., La-Tour-de-Millery, France. Resilient tire. No. 916,440; Mar. 30; Sp. p. 5641; Gaz. vol. 140; p. 1022.
- Guffey, C. D. (See Ward and Guffey.)
- Guggenbuhl, J. F., Paris, France. Solder for aluminum. No. 933,433; Sept. 7; Sp. p. 883; Gaz. vol. 146; p. 138.
- Gugler, J. H., Milwaukee, Wis. Combined primary and secondary battery system. No. 940,008; Nov. 16; Sp. p. 3434; Gaz. vol. 148; p. 592.
- Gugler, J. H., Minneapolis, Minn., assignor to Battery Company. Battery-contact. No. 914,038; Mar. 2; Sp. p. 835; Gaz. vol. 140; p. 128.
- Gugler, J. H., Minneapolis, Minn., assignor to Battery Company, Milwaukee, Wis. Battery-contact. No. 928,963; July 27; Sp. p. 4673; Gaz. vol. 144; p. 838.
- Gugler, J. H., Minneapolis, Minn., assignor to Battery Company. Battery-contact. No. 938,663; Nov. 2; Sp. p. 484; Gaz. vol. 148; p. 74.
- Gugora, J., and C. D. Flamm, North Braddock, Pa. Dust-pan. No. 934,909; Sept. 21; Sp. p. 3879; Gaz. vol. 146; p. 674.
- Guhle, C. W. M., Tuckerton, N. J., assignor of one-half to F. J. Ritter, Philadelphia, Pa. Vehicle-fender. No. 938,053; Oct. 26; Sp. p. 5118; Gaz. vol. 147; p. 880.
- Guibbini, J. S., Benicia, Cal. Combined retort and shaker and cooler. No. 915,428; Mar. 16; Sp. p. 3652; Gaz. vol. 140; p. 636.
- Guiberson, S. A., Jr. (See Mills, T., assignor.)
- Guild, G., Houston, Tex. Swivel connection. No. 937,301; Oct. 19; Sp. p. 3539; Gaz. vol. 147; p. 612.
- Guilford, F. A., Chicago, Ill. Shooting-glasses for marksmen. No. 935,756; Oct. 5; Sp. p. 281; Gaz. vol. 147; p. 45.
- Guilford, R. W., assignor to W. H. McIntyre, Auburn, Ind. Fly-wheel. No. 911,540; Feb. 2; Sp. p. 983; Gaz. vol. 139; p. 171.
- Guilford, R. W., assignor to W. H. McIntyre, Auburn, Ind. Engine-valve-closing spring. No. 918,534; Apr. 20; Sp. p. 3203; Gaz. vol. 141; p. 586.
- Guilleteau-Chaput, L. V., Paris, France. Artificial leather and making the same. No. 933,645; Sept. 7; Sp. p. 1382; Gaz. vol. 146; p. 208.
- Guillot, F., Schenectady, N. Y., assignor to General Electric Company. Clamping-ear for trolley-wires. No. 919,571; Apr. 27; Sp. p. 5625; Gaz. vol. 141; p. 966.
- Guillott, J. W., Buffalo, N. Y. Combined ruler and blotter. No. 937,598; Oct. 19; Sp. p. 4174; Gaz. vol. 147; p. 711.
- Guimont, D. C. (See Guimont, J. W., assignor.)
- Guimont, J. W., assignor to D. L. Guimont, Montreal, Quebec, Canada. Injector for hot-water heaters. No. 935,015; Sept. 28; Sp. p. 4104; Gaz. vol. 146; p. 736.
- Guindon, A., Central Falls, and J. Tyson, Valley Falls, R. I. Key-retaining device. No. 935,623; Sept. 28; Sp. p. 5340; Gaz. vol. 146; p. 937.
- Guinn, J. D. (See Armitage, J. W., assignor.)
- Gunter, W. S., Rockford, Ill. Fence-making tool. No. 913,725; Mar. 2; Sp. p. 99; Gaz. vol. 140; p. 18.



*Alphabetical list of patentees—Continued.*

- Guinzburg, V., New York, N. Y., assignor to I. B. Kleinert Rubber Company. Hose-supporter clasp. No. 916,304; Mar. 23; Sp. p. 5360; Gaz. vol. 140; p. 951.
- Gulbrandson, G. (See Midbo and Gulbrandson.)
- Gulbransen, A. G., assignor to Gulbransen, Dickinson Company, Chicago, Ill. Automatic playing-piano. No. 913,378; Feb. 23; Sp. p. 4852; Gaz. vol. 139; p. 869.
- Gulbransen, A. G., assignor to Gulbransen, Dickinson Company, Chicago, Ill. Tracker-board mechanism for pneumatically-operated pianos. No. 929,301; July 27; Sp. p. 5406; Gaz. vol. 144; p. 951.
- Gulbransen, A. G., assignor to Gulbransen-Dickinson Company, Chicago, Ill. Pedal mechanism. No. 936,447; Oct. 12; Sp. p. 1796; Gaz. vol. 147; p. 298.
- Gulbransen, A. G., assignor to Gulbransen & Dickinson Company, Chicago, Ill. Pneumatically-operated piano. No. 944,033; Dec. 21; Sp. p. 4305; Gaz. vol. 149; p. 742.
- Gulbransen, A. G., assignor to Gulbransen & Dickinson Company, Chicago, Ill. Pneumatic actuating unit. No. 944,034; Dec. 21; Sp. p. 4308; Gaz. vol. 149; p. 743.
- Gulbransen & Dickinson Company. (See Gulbransen, A. G., assignor.)
- Gulbrandsen, G., Topeka, Kans. Weight-recording means for weighing-scales. No. 938,141; Oct. 26; Sp. p. 5317; Gaz. vol. 147; p. 909.
- Gulick, E. J., Mishawaka, Ind. Slip-coupling. No. 923,043; May 25; Sp. p. 6067; Gaz. vol. 142; p. 1056.
- Gulick, E. J., Mishawaka, Ind. Gear-transmission mechanism for automobiles. No. 923,044; May 25; Sp. p. 6068; Gaz. vol. 142; p. 1056.
- Gulick, E. J., Mishawaka, Ind. Torsion tube-support for rear-axle housings of automobiles. No. 923,045; May 25; Sp. p. 6070; Gaz. vol. 142; p. 1057.
- Gulick, E. J., Mishawaka, Ind. Gas-engine. No. 923,046; May 25; Sp. p. 6072; Gaz. vol. 142; p. 1057.
- Gull, R., St. Louis, Mo. Bottling beer. No. 938,577; Nov. 2; Sp. p. 309; Gaz. vol. 148; p. 46.
- Gull, R., St. Louis, Mo. Machine for bottling beer. No. 938,578; Nov. 2; Sp. p. 313; Gaz. vol. 148; p. 46.
- Gullberg & Smith. (See Smith, C. L., assignor.)
- Gullett, H. (See Bant and Gullett.)
- Gullickson, C. J., Chicago, Ill. Folding chair. No. 929,213; July 27; Sp. p. 5196; Gaz. vol. 144; p. 921.
- Gullickson, T. F., Numedahl, N. D. Combined couch and sofa. No. 924,659; June 15; Sp. p. 3366; Gaz. vol. 143; p. 580.
- Gulline, H. L., Granby, Quebec, Canada. Folding box or crate. No. 909,586; Jan. 12; Sp. p. 2329; Gaz. vol. 138; p. 413.
- Gulline, H. L., Granby, Quebec, Canada. Folding box. No. 933,554; Sept. 7; Sp. p. 1217; Gaz. vol. 146; p. 178.
- Gulline, H. L., Granby, Quebec, Canada. Folding box. No. 940,009; Nov. 16; Sp. p. 3435; Gaz. vol. 148; p. 593.
- Gulline, H. L., Granby, Quebec, Canada. Folding box. No. 940,010; Nov. 16; Sp. p. 3436; Gaz. vol. 148; p. 593.
- Gulliom, E. H., Carpenter, S. D. Metallic loop for hame-tugs. No. 925,898; June 22; Sp. p. 5901; Gaz. vol. 143; p. 1019.
- Gullong, J., Holyoke, Mass. Display-stand. No. 923,647; June 1; Sp. p. 1194; Gaz. vol. 143; p. 183.
- Gum Tragasol Supply Company. (See Castle, P. C. D., assignor.)
- Gumbert, M., assignor to "Isola," Gesellschaft für Wärme & Kälte Isolierung M. B. H., Berlin, Germany. Heat-insulating vessel. No. 929,422; July 27; Sp. p. 5648; Gaz. vol. 144; p. 991.
- Gumm, J. A., Philadelphia, Pa. Jack and locking means therefor. No. 944,962; Dec. 28; Sp. p. 6301; Gaz. vol. 149; p. 1083.
- Gummer, H. R. (See Cope and Gummer.)
- Gumperz, J., New York, N. Y. Folding box. No. 916,698; Mar. 30; Sp. p. 6171; Gaz. vol. 140; p. 1105.
- Gumprecht, W. L., assignor to Neptune Meter Company, New York, N. Y. Meter. No. 941,573; Nov. 30; Sp. p. 6886; Gaz. vol. 148; p. 1166.
- Gundel, J., Boston, Mass. Infant's band. No. 939,012; Nov. 2; Sp. p. 1216; Gaz. vol. 148; p. 194.
- Gundelach, E., New Rochelle, N. Y., assignor to F. A. Whitney Carriage Company, Leominster, Mass. Folding vehicle. No. 910,372; Jan. 19; Sp. p. 3959; Gaz. vol. 138; p. 712.
- Gundelach, E., New Rochelle, assignor of one-half to R. J. Ehlers, New York, N. Y. Folding crib or bed. No. 938,315; Oct. 26; Sp. p. 5694; Gaz. vol. 147; p. 969.
- Gunderson, A., Moose Lake, Minn. Bob-sled. No. 908,661; Jan. 5; Sp. p. 501; Gaz. vol. 138; p. 78.
- Gunderson, E., Scandanavia, Wis. Wagon-tongue. No. 936,125; Oct. 5; Sp. p. 1108; Gaz. vol. 147; p. 168.
- Gundholm, N. C. Y., Bradfordville, Fla. Plow attachment. No. 918,445; Apr. 13; Sp. p. 3005; Gaz. vol. 141; p. 529.
- Gundorph, F., Portland, Oreg. Releasing mechanism. No. 919,716; Apr. 27; Sp. p. 5911; Gaz. vol. 141; p. 1015.
- Gunn, A. G., Coffeyville, Kans. Self-feeding marker. No. 938,846; Nov. 2; Sp. p. 849; Gaz. vol. 148; p. 136.
- Gunn, J., Philadelphia, Pa. Fuel. No. 920,734; May 4; Sp. p. 1307; Gaz. vol. 142; p. 211.
- Gunn, J. K., Utica, N. Y. Pipe-casting machine. No. 933,434; Sept. 7; Sp. p. 883; Gaz. vol. 146; p. 138.
- Gunn, J. M., assignor of one-fourth to J. R. Burris and one-fourth to F. O. Burris, Girard, Ill. Animal-trap. No. 941,988; Nov. 30; Sp. p. 7756; Gaz. vol. 148; p. 1306.
- Gunn, R. W. (See Hardison, Gunn, and Thompson.)
- Gunnell, E., assignor of one-half to Manitowoc Dry Dock Company, Manitowoc, Wis., and one-half to W. Clifford, Duluth, Minn. Antidrift device. No. 923,648; June 1; Sp. p. 1195; Gaz. vol. 143; p. 183.
- Gunnell, E., assignor to Manitowoc Dry Dock Company, Manitowoc, Wis. Antidrift device. No. 942,855; Dec. 7; Sp. p. 1714; Gaz. vol. 149; p. 278.
- Gunnes, J. H., Seattle, Wash. Portable savings-bank. No. 942,638; Dec. 7; Sp. p. 1265; Gaz. vol. 149; p. 207.
- Gunning, J., Bournemouth, and J. Hansford, Portland, assignors to W. P. Gibbons, Ruiton House, near Dudley, England. Gas-meter or the like apparatus. No. 919,162; Apr. 20; Sp. p. 4539; Gaz. vol. 141; p. 794.
- Gunning, R. J. (See Bruner, O. W., assignor.)
- Gunnis, R. H., *et al.* (See Marks, R. C., assignor.)
- Gunter, W., Frostburg, Md. Safety-stop for cars. No. 934,166; Sept. 14; Sp. p. 2449; Gaz. vol. 146; p. 403.
- Günther, H., Leipzig-Gohlis, Germany. Attachment for musical instruments. No. 938,142; Oct. 26; Sp. p. 5319; Gaz. vol. 147; p. 910.
- Günther, O. (See Hesse, Günther, and Zart.)
- Günther, O., Kellogg, Idaho. Mail-bag delivering and receiving apparatus. No. 914,039; Mar. 2; Sp. p. 836; Gaz. vol. 140; p. 128.
- Günther, O., Kellogg, Idaho. Door-spring. No. 920,323; May 4; Sp. p. 479; Gaz. vol. 142; p. 75.
- Günther, O., and L. Hesse, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 921,105; May 11; Sp. p. 2068; Gaz. vol. 142; p. 364.
- Günther, O., and L. Hesse, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 921,239; May 11; Sp. p. 2341; Gaz. vol. 142; p. 410.
- Günther, O., and L. Hesse, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Yellow dye. No. 935,016; Sept. 28; Sp. p. 4106; Gaz. vol. 146; p. 736.
- Günther, O., and L. Hesse, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Yellow azo dye. No. 935,017; Sept. 28; Sp. p. 4106; Gaz. vol. 146; p. 736.
- Günther, O., and L. Hesse, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 935,018; Sept. 28; Sp. p. 4107; Gaz. vol. 146; p. 736.
- Guntton, R., assignor of one-half to F. L. Elmendorf, Evansville, Ind. Closet-seat. No. 936,714; Oct. 12; Sp. p. 2347; Gaz. vol. 147; p. 389.
- Guntrum, C. (See Selg and Guntrum.)
- Gupfill, F. C., assignor of one-half to W. F. Lynch, Elgin, Ill. Damper-regulator. No. 943,931; Dec. 21; Sp. p. 4086; Gaz. vol. 149; p. 708.
- Gurley, A. H., Meridian, Miss. Device for overcoming dead-centers. No. 919,855; Apr. 27; Sp. p. 6219; Gaz. vol. 141; p. 1061.
- Gurme, C. M., assignor of one-half to A. D. F. McIntosh, Rochester, N. Y. Burning fuel in furnaces for boilers, &c. No. 925,632; June 22; Sp. p. 5303; Gaz. vol. 143; p. 932.
- Gurney, A. J., Sunnyside, assignor of one-third to T. G. Warden, Chicago, and one-third to J. Rollo, Murphysboro, Ill. Loading-machine for box-cars. No. 943,225; Dec. 14; Sp. p. 2558; Gaz. vol. 149; p. 434.
- Gurney, H. F. (See Cummiskey, W. M., assignor.)
- Gurney, H. F., Jersey City, N. J., and W. M. Cummiskey, Honesdale, Pa.; said Cummiskey assignor to said Gurney. Electric elevator. No. 909,889; Jan. 19; Sp. p. 2933; Gaz. vol. 138; p. 546.
- Gurwitch, I., and F. Rainey, Lincoln, Neb. Mail-pouch catching and delivering means. No. 936,715; Oct. 12; Sp. p. 2346; Gaz. vol. 147; p. 389.
- Gus V. Brecht Butchers' Supply Co. (See Schraudner, F., assignor.)
- Gussenhoven, W., Chicago, Ill. Beater for hog-scraping machines. No. 938,761; Nov. 2; Sp. p. 668; Gaz. vol. 148; p. 106.
- Gustafson, A. C., Red Oak, Iowa. Printer's border. No. 925,336; June 15; Sp. p. 4711; Gaz. vol. 143; p. 805.
- Gustafson, B., Boston, Mass. Controlling mechanism for sheet-feeding machines. No. 912,562; Feb. 16; Sp. p. 3190; Gaz. vol. 139; p. 572.
- Gustafson, B., Boston, Mass. Pile-elevator for sheet-feeding machines. No. 912,563; Feb. 16; Sp. p. 3193; Gaz. vol. 139; p. 572.
- Gustafson, B., Boston, Mass. Sheet-feeding mechanism. No. 934,608; Sept. 21; Sp. p. 3292; Gaz. vol. 146; p. 573.
- Gustafson, E. F., Idaho Springs, Colo. Ore-feeder. No. 925,337; June 15; Sp. p. 4712; Gaz. vol. 143; p. 805.
- Gustafson, G. A., Church's Ferry, N. D. Spring-wheel. No. 911,975; Feb. 9; Sp. p. 1946; Gaz. vol. 139; p. 341.
- Gustafson, J., *et al.* (See Ross, J., assignor.)
- Gustafson, V. G. (See Zimmermann and Gustafson.)
- Gustavsen, C. O., Columbus, Ohio, assignor, by mesne assignments, to Jeffrey Manufacturing Company. Making helicoid or spiral conveyers. No. 908,859; Jan. 5; Sp. p. 883; Gaz. vol. 138; p. 140.

*Alphabetical list of patentees—Continued.*

- Gustavsen, C. O., Columbus, Ohio, assignor, by mesne assignments, to Jeffrey Manufacturing Company. Machine for making helicoid or spiral conveyers. No. 908,860; Jan. 5; Sp. p. 885; Gaz. vol. 138; p. 141.
- Gustiana, A. (See Gustiana, B. and A.)
- Gustiana, B. and A., Hamilton, Ontario, Canada. Composition of matter to be used for tiles. No. 933,979; Sept. 14; Sp. p. 2068; Gaz. vol. 146; p. 341.
- Gutehoffnungshütte, Aktienverein für Bergbau und Hüttenbetrieb. (See Löffelholz, J., assignor.)
- Gutekunst, C. J. (See Ramthun and Gutekunst.)
- Gutelius, F. P. (See Crudge, H. J., assignor.)
- Gutekunst, W., Milwaukee, Wis. Direct-movement lock and trip mechanism for carriers. No. 931,859; Aug. 24; Sp. p. 4728; Gaz. vol. 145; p. 818.
- Gutekunst, W., Milwaukee, Wis. Cable-retaining mechanism for overhead carrier yokes and rollers. No. 931,860; Aug. 24; Sp. p. 4729; Gaz. vol. 145; p. 819.
- Gutekunst, W., Milwaukee, Wis. Switch mechanism for overhead carrier-cables. No. 931,861; Aug. 24; Sp. p. 4730; Gaz. vol. 145; p. 819.
- Gutekunst, W., Milwaukee, Wis. Trip mechanism and reaction-stop for litter-carriers. No. 938,579; Nov. 2; Sp. p. 320; Gaz. vol. 148; p. 47.
- Gutekunst, W., Milwaukee, Wis. Clamping mechanism for litter-supporting cables. No. 938,847; Nov. 2; Sp. p. 850; Gaz. vol. 148; p. 137.
- Gutermann, E. A. (See Savage and Gutermann.)
- Guth, S., Washington, Ill. Wire-fence tool. No. 918,670; Apr. 20; Sp. p. 3552; Gaz. vol. 141; p. 633.
- Guthat, A. W., Milwaukee, Wis. Scaffold-bracket. No. 940,459; Nov. 16; Sp. p. 4483; Gaz. vol. 148; p. 749.
- Guthrie, E. J. (See Guthrie, P. F., assignor.)
- Guthrie, M. D., Houston, Tex. Hay-press. No. 910,667; Jan. 26; Sp. p. 4589; Gaz. vol. 138; p. 834.
- Guthrie, P. F., assignor of one-half to E. J. Guthrie, Nutley, N. J. Cushion for vehicles. No. 909,400; Jan. 12; Sp. p. 1957; Gaz. vol. 138; p. 349.
- Gütt, O., Geestemünde, and F. H. C. Heyn, Hamburg, Germany. Sounding-tackle. No. 938,143; Oct. 26; Sp. p. 5321; Gaz. vol. 147; p. 910.
- Gutta Percha & Rubber Manufacturing Company. (See Bolton, A. C., assignor.)
- Guttendorf, F., Pittsburgh, Pa. Ink-well. No. 944,858; Dec. 28; Sp. p. 6111; Gaz. vol. 149; p. 1050.
- Guttmann, O., London, England. Filling material for reaction-spaces. No. 912,310; Feb. 16; Sp. p. 2651; Gaz. vol. 139; p. 486.
- Gutwein, P., Jr., Francesville, Ind. Drainage-level. No. 914,945; Mar. 9; Sp. p. 2685; Gaz. vol. 140; p. 450.
- Guy, A. E., Trenton, N. J., assignor to De Laval Steam Turbine Company, New York, N. Y. Motor. No. 908,662; Jan. 5; Sp. p. 502; Gaz. vol. 138; p. 78.
- Guy, A. E., Trenton, N. J., assignor to De Laval Steam Turbine Company, New York, N. Y. Multiple-impeller pump. No. 912,954; Feb. 16; Sp. p. 3979; Gaz. vol. 139; p. 700.
- Guy, A. E., Trenton, N. J., assignor to De Laval Steam Turbine Company, New York, N. Y. Multiple-impeller pump. No. 940,871; Nov. 23; Sp. p. 5378; Gaz. vol. 148; p. 911.
- Guy, W. W., assignor to Colonial Fireplace Company, Chicago, Ill. Fireplace. No. 926,183; June 29; Sp. p. 6502; Gaz. vol. 143; p. 1150.
- Guyer, C., assignor of one-half to W. C. Crawford, Muncy, Pa. Rotary engine. No. 944,361; Dec. 28; Sp. p. 4992; Gaz. vol. 149; p. 879.
- Guyle, H. G., Sargent, Nebr. Selective telephone system. No. 927,651; July 13; Sp. p. 1973; Gaz. vol. 144; p. 345.
- Guyonn, W. A., Little Rock, Ark. Railway-switch. No. 924,455; June 8; Sp. p. 2930; Gaz. vol. 143; p. 479.
- Guyon, C. F., and R. W. Vicarey, New York, N. Y., assignors to Industrial Storage Battery Company. Electric accumulator-plate. No. 914,657; Mar. 9; Sp. p. 2091; Gaz. vol. 140; p. 355.
- Gwin, W. R., Los Angeles, Cal. Multiple die-plate. No. 927,406; July 6; Sp. p. 1411; Gaz. vol. 144; p. 234.
- Gwinn, A., and O. A. Hovick, assignors of one-third to E. Canfield, one-third to A. Hovick, and one-third to E. Nyhus, Hatton, N. D. Fry-ing-frame. No. 924,981; June 15; Sp. p. 4049; Gaz. vol. 143; p. 690.
- Gwinn, G. W. (See Mueller and Gwinn.)
- Gyurcsó, A. (See Eiben and Gyurcsó.)
- H. Adler Company. (See Adler, H., assignor.)
- H. Hermann Lumber Co. (See Karpf, C., assignor.)
- H. Kohnstamm and Company. (See Moore, D. P., assignor.)
- H. Mueller Manufacturing Company. (See Mueller, H., assignor.)
- H. Mueller Manufacturing Company. (See Mueller, P., assignor.)
- H. Mueller Manufacturing Company. (See Mueller and Schuermann, assignors.)
- H. Mueller Manufacturing Company. (See Schuermann, A. C., assignor.)
- H. B. Hardenburg & Co. (See Eninger, C., assignor.)
- H. B. Rouse & Company. (See Knoll, W. J., assignor.)
- H. B. Sherman Manufacturing Company. (See Walton and Macke, assignors.)
- H. B. Smith Machine Company. (See Lippincott, G. A., assignor.)
- H. B. Wiggin's Sons Company. (See Wiggin, J. M., assignor.)
- H. C. Fry Glass Company. (See Woodruff, F., assignor.)
- H. C. Meyer, Jr. (See Tilp, J., assignor.)
- H. D. Smith and Company. (See Thomson, W. S., assignor.)
- H. D. Smith and Company. (See Ward, W. S., assignor.)
- H. F. Brammer Manufacturing Company. (See Braunlich, H. G., assignor.)
- H. F. Brammer Manufacturing Company. (See Edens, J., assignor.)
- H. F. Brammer Manufacturing Company. (See Meves, G. N., assignor.)
- H. J. Nice Company. (See Eichenfels, E. H., assignor.)
- H. J. Packer & Company. (See Powell and Renwick, assignors.)
- H. J. West and Company. (See Webster and Chew, assignors.)
- H. K. Miller Manlg. Co. (See Horrell and Bryant, assignors.)
- H. L. Hurst Manufacturing Company. (See Lamiell and Hurst, assignors.)
- H. L. Judd Company. (See Edsall, W. H., assignor.)
- H. L. Judd Company. (See Lathrop, F. L., assignor.)
- H. L. Judd Company *et al.* (See Lathrop, F. L., assignor.)
- H. L. Judd Company. (See Lathrop and Chase, assignors.)
- H. L. Judd Company. (See Stone, T. D., assignor.)
- H. N. Thayer Company. (See Peplinski, J. W., assignor.)
- H. N. Thayer Company. (See Peplinski and Thayer, assignors.)
- H. O. Canfield Company. (See Canfield, A. H., assignor.)
- H. O. Peck Automobile Wheel Company. (See Peck, H. O., assignor.)
- H. S. Eckles & Co. (See Genung, C. A., assignor.)
- H. S. Judd Manufacturing Company. (See Judd, H. S., assignor.)
- H. W. Butterworth & Sons Company. (See France, T. W., assignor.)
- H. W. Cooper Saddlery Mfg. Co. (See Cooper, C. J., assignor.)
- H. W. Johns-Manville Company. (See Harold, W. W., assignor.)
- H. W. Johns-Manville Company. (See Jewett, F. J., assignor.)
- H. W. Johns-Manville Company. (See Meek, J. E., assignor.)
- Haag, J., New Washington, assignor to H. E. Ginter, Dubois, Pa. Baling-press. No. 937,436; Oct. 19; Sp. p. 3849; Gaz. vol. 147; p. 655.
- Haamann, F. H. J., Balham, London, England. Dressmaker's skirt-marker. No. 920,133; May 4; Sp. p. 88; Gaz. vol. 142; p. 12.
- Haarmann, J. E., Omaha, Nebr. Hydraulic dirt-conveyer. No. 932,544; Aug. 31; Sp. p. 6165; Gaz. vol. 145; p. 1069.
- Haas, Baruch an Company. (See Harrington, N. J., assignor.)
- Haas, C. A., St. Louis, Mo., assignor of one-half to Imperial Brass Manufacturing Company, Chicago, Ill. Carbureter. No. 932,465; Aug. 31; Sp. p. 5990; Gaz. vol. 145; p. 1042.
- Haas, C. E., Cincinnati, Ohio, and W. Giles, Chicago, Ill. Combination-rack. No. 931,059; Aug. 17; Sp. p. 3030; Gaz. vol. 145; p. 532.
- Haas, G. (See Nogle and Haas.)
- Haas, G. W., assignor of one-half to M. B. Fowler, Los Angeles, Cal. Jury and jury-frame for facilitating orthopedic treatment. No. 913,127; Feb. 23; Sp. p. 4339; Gaz. vol. 139; p. 785.
- Haas, J. A., Vandergrift Heights, Pa. Curtain-shade roller and curtain-pole support. No. 926,484; June 29; Sp. p. 7070; Gaz. vol. 143; p. 1247.
- Haas, L., New York, N. Y. Music-roll container. No. 915,286; Mar. 16; Sp. p. 3369; Gaz. vol. 140; p. 588.
- Haas, L., New York, N. Y. Music-roll container. No. 922,695; May 25; Sp. p. 5352; Gaz. vol. 142; p. 944.
- Haas, L., Paris, France, assignor to Cassella Color Company, New York, N. Y. Blue sulfur dye and making same. No. 919,572; Apr. 27; Sp. p. 5625; Gaz. vol. 141; p. 966.



*Alphabetical list of patentees—Continued.*

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- Haas, N. I. (See Scheller and Haas.)
- Haas, O. A., Emporia, Kans. Metal culvert. No. 935,971; Oct. 5; Sp. p. 790; Gaz. vol. 147; p. 117.
- Haas, P. J., York, Neb. Fence-post mold. No. 937,793; Oct. 26; Sp. p. 4583; Gaz. vol. 147; p. 794.
- Haas, P. J., York, Neb. Reinforced-concrete post. No. 937,794; Oct. 26; Sp. p. 4585; Gaz. vol. 147; p. 794.
- Haas, W. G., Dayton, Ohio. Paper pail. No. 925,578; June 22; Sp. p. 5192; Gaz. vol. 143; p. 914.
- Haase, A., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Projectile. No. 932,014; Aug. 24; Sp. p. 5085; Gaz. vol. 145; p. 870.
- Haase, C. H., New Orleans, La., assignor of one-fourth to W. H. Wood, Dallas, Tex. Combined pencil holder and sharpener. No. 941,518; Nov. 30; Sp. p. 6777; Gaz. vol. 145; p. 1148.
- Haase, L. G., Pasadena, Cal. Mold for concrete sign-posts. No. 915,287; Mar. 16; Sp. p. 3370; Gaz. vol. 140; p. 588.
- Haasis, A. L. (See Carpenter, W. H., assignor.)
- Habbert, E. H. A., and J. L. Allen, Troy, N. Y., assignors, by mesne assignments, to Singer Manufacturing Company. Thread-cutting device for sewing-machines. No. 924,768; June 15; Sp. p. 3593; Gaz. vol. 143; p. 618.
- Habekost, R., Squirrel, Idaho. Whip-socket. No. 939,246; Nov. 9; Sp. p. 1730; Gaz. vol. 148; p. 300.
- Haber, E., Boston, assignor to Morse Twist Drill & Machine Company, New Bedford, Mass. Reamer. No. 909,401; Jan. 12; Sp. p. 1959; Gaz. vol. 138; p. 349.
- Haber, E. W., Chicago, Ill. Button. No. 912,843; Feb. 16; Sp. p. 3790; Gaz. vol. 139; p. 667.
- Haber, F., and A. Koenig, Karlsruhe, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Process and apparatus for the production of compounds of oxygen and nitrogen. No. 938,316; Oct. 26; Sp. p. 5695; Gaz. vol. 147; p. 970.
- Haber, M. J., Chicago, Ill. Sad-iron. No. 938,762; Nov. 2; Sp. p. 670; Gaz. vol. 148; p. 107.
- Haberkorn, C. H., Detroit, Mich. Desk-table. No. 912,672; Feb. 16; Sp. p. 3399; Gaz. vol. 139; p. 610.
- Habermas, E. W., Cincinnati, Ohio. Saw-gage. No. 926,652; June 29; Sp. p. 7387; Gaz. vol. 143; p. 1303.
- Hach, F. (See Hach and Bosch.)
- Hach, G. J. and F., and H. Bosch, St. Louis, Mo. Washboiler. No. 918,671; Apr. 20; Sp. p. 3552; Gaz. vol. 141; p. 633.
- Hachmann, F., assignor of two-thirds to W. W. Whitman, St. Paul, and one-eighth to J. R. Bailey, Minneapolis, Minn. Wrench. No. 910,127; Jan. 19; Sp. p. 3414; Gaz. vol. 138; p. 625.
- Hachmann, F., assignor of seven-eighths to W. W. Whitman, St. Paul, Minn., and one-sixteenth to P. H. Scanlan, Butte, Mont. Car-axle-box lid. No. 910,668; Jan. 26; Sp. p. 4590; Gaz. vol. 138; p. 835.
- Hachmann, F., assignor of two-thirds to W. W. Whitman, St. Paul, and one-eighth to J. R. Bailey, Minneapolis, Minn. Ham-salter. No. 916,441; Mar. 30; Sp. p. 5642; Gaz. vol. 140; p. 1022.
- Hack, W. W. (See Rimmel, C. B., assignor.)
- Hackbarth, R., Baumshulenweg, near Berlin, Germany. Car-axle coupling. No. 928,445; July 20; Sp. p. 3641; Gaz. vol. 144; p. 641.
- Hacker, C. H., Baltimore, Md. Cake-turner. No. 937,520; Oct. 19; Sp. p. 4032; Gaz. vol. 147; p. 685.
- Hacker, E., assignor of one-half to J. Goldman, Baltimore, Md. Washing-machine. No. 914,717; Mar. 9; Sp. p. 2242; Gaz. vol. 140; p. 376.
- Hacker Brothers. (See Rinke, B., assignor.)
- Hackett, C. H., assignor to W. W. Marsh, Waterloo, Iowa. Cream-exit for centrifugal cream-separators. No. 914,487; Mar. 9; Sp. p. 1754; Gaz. vol. 140; p. 301.
- Hackett, C. H., and T. W. Morgan, assignors to W. W. Marsh, Waterloo, Iowa. Liner for centrifugal cream-separators. No. 914,488; Mar. 9; Sp. p. 1755; Gaz. vol. 140; p. 301.
- Hackett, E., North Yakima, Wash. Amalgamator. No. 929,086; July 27; Sp. p. 4931; Gaz. vol. 144; p. 879.
- Hackett, E. M., Chicago, Ill. Boat or vessel. No. 915,429; Mar. 16; Sp. p. 3653; Gaz. vol. 140; p. 636.
- Hackett, T. P., assignor to Architectural Stone Company, Cincinnati, Ohio. Machine for making cement tiles. No. 943,971; Dec. 21; Sp. p. 4165; Gaz. vol. 149; p. 721.
- Hacking, A. E., West Bridgford, Nottingham, England. Electrically lighting up gas-lamps. No. 932,273; Aug. 24; Sp. p. 5609; Gaz. vol. 145; p. 957.
- Hacking, P. M., and A. H. Bastian, Milwaukee, Oreg. Automatic mail-carrier. No. 932,700; Aug. 31; Sp. p. 6511; Gaz. vol. 145; p. 1121.
- Hacklander, F., *et al.* (See Morsey-Picard and Verschuer, assignors.)
- Hackleman, D. L., Wellington, Colo. Derailling device. No. 943,932; Dec. 21; Sp. p. 4088; Gaz. vol. 149; p. 708.
- Hackmann, F., St. Paul, and G. A. Childs; said Hackmann assignor to said Childs and H. L. Gifford, Minneapolis, Minn. Meat-salter. No. 921,980; May 18; Sp. p. 3896; Gaz. vol. 142; p. 681.
- Hackney, L. S. (See Goldman, I. S., assignor.)
- Hackney, L. S., St. Paul, Minn. Manure-spreader. No. 927,141; July 6; Sp. p. 919; Gaz. vol. 144; p. 148.
- Hackney, L. S., St. Paul, Minn. Exercising-machine. No. 937,795; Oct. 26; Sp. p. 4586; Gaz. vol. 147; p. 794.
- Hackney, R. H., assignor to Pressed Steel Tank Company, Milwaukee, Wis. Metal barrel or cask. No. 919,345; Apr. 27; Sp. p. 5121; Gaz. vol. 141; p. 888.
- Hackstaff, G. C., Denver, Colo. Ore-concentrating jig and coal-washer. No. 922,419; May 18; Sp. p. 4763; Gaz. vol. 142; p. 826.
- Hadaway, J. B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Needle-lubricating device. No. 922,696; May 25; Sp. p. 5353; Gaz. vol. 142; p. 945.
- Hadaway, J. B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Vamp-trimming machine. No. 922,697; May 25; Sp. p. 5355; Gaz. vol. 142; p. 945.
- Hadaway, J. B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for making imitation stitches. No. 933,174; Sept. 7; Sp. p. 289; Gaz. vol. 146; p. 48.
- Hadaway, J. B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Stitch separating and indenting machine. No. 933,175; Sept. 7; Sp. p. 292; Gaz. vol. 146; p. 48.
- Hadaway, W. S., Jr., East Orange, N. J. Electric resistance unit or element. No. 918,535; Apr. 20; Sp. p. 3204; Gaz. vol. 141; p. 587.
- Haddock, M. A., Stevens Point, Wis. Pipe and cleaner therefor. No. 939,247; Nov. 9; Sp. p. 1731; Gaz. vol. 148; p. 301.
- Haddock, A., and A. Schmitt, New York, N. Y. Safety switch-lock. No. 935,972; Oct. 5; Sp. p. 792; Gaz. vol. 147; p. 118.
- Haddock, D. V., St. Petersburg, Fla. Cuspidor. No. 939,013; Nov. 2; Sp. p. 1218; Gaz. vol. 148; p. 194.
- Haddock, H. E., Cleveland, Ohio, assignor to J. G. Brill Company, Philadelphia, Pa. Corner-anchor for cars. No. 912,120; Feb. 9; Sp. p. 2241; Gaz. vol. 139; p. 388.
- Haddock, H. E., Cleveland, Ohio, assignor to J. G. Brill Company, Philadelphia, Pa. Knee for car-platforms. No. 937,521; Oct. 19; Sp. p. 4033; Gaz. vol. 147; p. 685.
- Haddock, J. W., Grand Prairie, Tex. Stirrup. No. 911,718; Feb. 9; Sp. p. 1385; Gaz. vol. 139; p. 257.
- Hadfield, R. A., Sheffield, England. Railway-rail. No. 911,237; Feb. 2; Sp. p. 430; Gaz. vol. 139; p. 74.
- Hadfield, R. A., Sheffield, England. Making sound metal ingots and other castings. No. 933,751; Sept. 14; Sp. p. 1625; Gaz. vol. 146; p. 267.
- Hadida, H., London, England. Coin-freed automatic machine. No. 933,368; Sept. 7; Sp. p. 757; Gaz. vol. 146; p. 118.
- Hadka, J., Chicago, Ill. Cleaner. No. 939,248; Nov. 9; Sp. p. 1732; Gaz. vol. 148; p. 301.
- Hadka, J., Chicago, Ill. Vehicle-shield. No. 944,783; Dec. 28; Sp. p. 5933; Gaz. vol. 149; p. 1023.
- Hadley, A. N., Indianapolis, Ind. Portable field-derrick. (Reissue.) No. 12,960; May 25; Sp. p. 6280; Gaz. vol. 142; p. 1086.
- Hadley, A. W., and H. M. Smith, Monroe township, Morgan county, Ind. Road-grader. No. 940,389; Nov. 16; Sp. p. 4339; Gaz. vol. 148; p. 726.
- Hadley, G. S. (See Cook and Hadley.)
- Hadley, W. V., Dayton, Ohio. Endless traveling cutter. No. 929,087; July 27; Sp. p. 4932; Gaz. vol. 144; p. 879.
- Hadsel, A. D., Wilkes-Barre, Pa. Concrete-mixer. No. 909,784; Jan. 12; Sp. p. 2712; Gaz. vol. 138; p. 480.
- Hadsell, D. H. (See Smith and Hadsell.)
- Hadsell, D. H., assignor of one-half to T. D. Barry, Brockton, Mass. Rough-rounder for shoes. No. 918,847; Apr. 20; Sp. p. 3922; Gaz. vol. 141; p. 691.
- Hadwin, H., Dinting, England. Scrimp-rail for calico-printing machines. No. 935,654; Oct. 5; Sp. p. 58; Gaz. vol. 147; p. 12.
- Haeblerlein, M., New York, N. Y., assignor of one-half to Pelton Water Wheel Co., San Francisco, Cal. Fly ball-governor. No. 941,775; Nov. 30; Sp. p. 7323; Gaz. vol. 148; p. 1234.
- Haefele, J. A., Benton, Ark. Insect-destroyer. No. 916,305; Mar. 23; Sp. p. 5362; Gaz. vol. 140; p. 951.
- Haendler, A. (See Urbscheit, A., assignor.)
- Haenke, H. O. (See Haenke, R. A. and H. O.)
- Haenke, R. A. and H. O., Mount Pleasant, Mich. Bean-chute. No. 939,830; Nov. 9; Sp. p. 3401; Gaz. vol. 148; p. 501.
- Haeske, C. M., South Bend, Ind. Road-oiler. No. 936,716; Oct. 12; Sp. p. 2350; Gaz. vol. 147; p. 300.
- Haeske, C. M., South Bend, Ind. Running-gear for wagons. No. 943,742; Dec. 21; Sp. p. 3691; Gaz. vol. 149; p. 642.
- Haeske, C. M., South Bend, Ind. Dump-wagon. No. 943,743; Dec. 21; Sp. p. 3692; Gaz. vol. 149; p. 642.
- Hafely, A. C., New York, N. Y. Invoice or scrap book. No. 925,172; June 15; Sp. p. 4418; Gaz. vol. 143; p. 754.
- Hafely, A. C., New York, N. Y. Holder or case for phonograph-records and other flat articles. No. 931,600; Aug. 17; Sp. p. 4130; Gaz. vol. 145; p. 711.

*Alphabetical list of patentees—Continued.*

- Hafely, A. C., New York, N. Y. Binder. No. 941,142; Nov. 23; Sp. p. 5957; Gaz. vol. 148; p. 1002.
- Hafemeister, W. C., assignor to Van Dorn Electric and Manufacturing Company, Cleveland, Ohio. Combination switch and blow-out. No. 940,311; Nov. 16; Sp. p. 4142; Gaz. vol. 148; p. 699.
- Hafer, T., Williamsport, Pa., assignor to Tarentum Manufacturing Company. Shade and curtain-pole fixture. No. 933,249; Sept. 7; Sp. p. 5083; Gaz. vol. 146; p. 77.
- Hafer, W. (See Neider and Hafer.)
- Haff, H. W. (See Turner and Haff.)
- Haff, J. M., Los Angeles, Cal. Telephone antiseptic mouthpiece. No. 932,545; Aug. 31; Sp. p. 6166; Gaz. vol. 145; p. 1069.
- Haff, M. M. (See Wilson and Haff.)
- Hagadone, C. A., Western Springs, Ill., assignor to International Harvester Company. Hay-stacker. No. 944,263; Dec. 28; Sp. p. 4772; Gaz. vol. 149; p. 844.
- Hagberg, G., Mars, Pa. Friction-brake to prevent side motion of cars. No. 912,121; Feb. 9; Sp. p. 2243; Gaz. vol. 139; p. 388.
- Hage, A., Hildesheim, Germany. Vehicle. No. 909,402; Jan. 12; Sp. p. 1960; Gaz. vol. 138; p. 349.
- Hage, J., Plankinton, S. D. Foot-board for vehicles. No. 931,601; Aug. 17; Sp. p. 4132; Gaz. vol. 145; p. 711.
- Hage, L. O., Halstad, Minn. Fanning-mill. No. 931,060; Aug. 17; Sp. p. 3032; Gaz. vol. 145; p. 532.
- Hage, R. R., Culbertson, Mont. Gate-actuating mechanism. No. 908,563; Jan. 5; Sp. p. 275; Gaz. vol. 138; p. 46.
- Hageman, R. F., New Madison, Ohio. Car-mover. No. 939,249; Nov. 9; Sp. p. 1733; Gaz. vol. 148; p. 301.
- Hagemeyer, W. A., Olympia, Wash. Rotary tobacco-cutter. No. 931,295; Aug. 17; Sp. p. 3555; Gaz. vol. 145; p. 613.
- Hagen, H., Buffalo, N. Y. Necktie. No. 908,768; Jan. 5; Sp. p. 717; Gaz. vol. 138; p. 111.
- Hagen, J., Hopkins, Minn. Flat-iron heater. No. 914,267; Mar. 2; Sp. p. 1310; Gaz. vol. 140; p. 203.
- Hagen, R., Kings Norton, England, assignor to Livermore and Knight Co., Providence, R. I. Advertising device. No. 927,966; July 13; Sp. p. 2641; Gaz. vol. 144; p. 449.
- Hager, H., assignor to Hager Manufacturing Company, Chicago, Ill. Grain-cooler. No. 921,395; May 11; Sp. p. 2688; Gaz. vol. 142; p. 462.
- Hager, M. J., Denmark, Wis. Manure collector and conveyer. No. 928,123; July 13; Sp. p. 2926; Gaz. vol. 144; p. 500.
- Hager Manufacturing Company. (See Hager, H., assignor.)
- Hager, W. R., Detroit, Mich. Ironing-machine. No. 920,949; May 11; Sp. p. 1753; Gaz. vol. 142; p. 311.
- Hager, W. E., Detroit, Mich. Ironing-machine. No. 924,769; June 15; Sp. p. 3603; Gaz. vol. 143; p. 618.
- Hagerstown Cap Company. (See Parker, C. C., assignor.)
- Hagerstrand, E., Michigan City, Ind. Wrench. No. 921,106; May 11; Sp. p. 2069; Gaz. vol. 142; p. 364.
- Hagerstrom, J. A., Brooklyn, assignor to Victor Typewriter Company, New York, N. Y. Type-writing machine. No. 938,480; Nov. 2; Sp. p. 59; Gaz. vol. 148; p. 11.
- Hagerty, C. V., New York, N. Y., assignor to National Enameling and Stamping Company. Circular receptacle for automobiles. No. 937,699; Oct. 19; Sp. p. 4374; Gaz. vol. 147; p. 743.
- Hagerty, J., Scott township, Allegheny county, Pa. Window-spring. No. 943,147; Dec. 14; Sp. p. 2417; Gaz. vol. 149; p. 410.
- Hagerty, J. C., Santa Cruz, Cal. Rotary engine. No. 940,246; Nov. 16; Sp. p. 3979; Gaz. vol. 148; p. 677.
- Hagerup, M., Hanley, Saskatchewan, Canada. Boltless-plowshare. No. 914,139; Mar. 2; Sp. p. 1038; Gaz. vol. 140; p. 164.
- Hagg, C. J. J. (See Sundberg and Hagg.)
- Haggard, W. H., Dallas, Tex. Frictional clutch. No. 938,317; Oct. 26; Sp. p. 5697; Gaz. vol. 147; p. 970.
- Haggard, W. W., Winchester, Ky. Milk-bottle washer. No. 940,011; Nov. 16; Sp. p. 3439; Gaz. vol. 148; p. 593.
- Hagglund, C. J., Essex, Iowa. Attachment for knives. No. 912,469; Feb. 16; Sp. p. 2978; Gaz. vol. 139; p. 539.
- Haglund, A., Lawrence, Kans. Flower-pot holder. No. 941,448; Nov. 30; Sp. p. 6633; Gaz. vol. 148; p. 1124.
- Hagman, W. J., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Planer for locomotive-cylinders. No. 925,696; June 22; Sp. p. 5454; Gaz. vol. 143; p. 951.
- Hagstrom Brothers Manufacturing Company *et al.* (See Anderson and Hagstrom, assignors.)
- Hagstrom Brothers Manufacturing Company. (See Hagstrom, W., E., and G., assignors.)
- Hagstrom, E. (See Hagstrom, W., E., and G.)
- Hagstrom, E. and G., Lindsborg, Kans. Location-indicator for cars. No. 916,549; Mar. 30; Sp. p. 5898; Gaz. vol. 140; p. 1058.
- Hagstrom, G. (See Hagstrom, E., and G.)
- Hagstrom, G. (See Hagstrom, W., E., and G.)
- Hagstrom, W. (See Anderson and Hagstrom.)
- Hagstrom, W., Lindsborg, assignor of one-half to J. and C. A. Anderson, Salina, Kans. Switching device for party-line exchanges. No. 909,403; Jan. 12; Sp. p. 1962; Gaz. vol. 138; p. 350.
- Hagstrom, W., E., and G., assignors to Hagstrom Brothers Manufacturing Company, Lindsborg, Kans. Lamp-cord adjuster. No. 915,288; Mar. 16; Sp. p. 3372; Gaz. vol. 140; p. 589.
- Hague, A. G. (See Kramer and Hague.)
- Hague, A. G., Des Moines, Iowa. Corrugated-metal culvert. No. 942,256; Dec. 7; Sp. p. 488; Gaz. vol. 149; p. 76.
- Hague, I. N., Tacoma, Wash. Fruit-box. No. 924,982; June 15; Sp. p. 4050; Gaz. vol. 143; p. 690.
- Hahl, A. L., assignor to Hahl Automatic Clock Company, Chicago, Ill. Pneumatic clock system. No. 910,373; Jan. 19; Sp. p. 3961; Gaz. vol. 138; p. 713.
- Hahl Automatic Clock Company. (See Hahl, A. L., assignor.)
- Hahn, A., Cassel, Germany. Optical instrument. No. 926,061; June 22; Sp. p. 6214; Gaz. vol. 143; p. 1073.
- Hahn, G. W., Indianapolis, Ind. Horse-collar. No. 931,862; Aug. 24; Sp. p. 4732; Gaz. vol. 145; p. 819.
- Hahn, H., Alameda, assignor of two-thirds to M. P. Rodrigues and M. A. Bettencourt, San Leandro, Cal. Peeling-machine. No. 910,374; Jan. 19; Sp. p. 3969; Gaz. vol. 138; p. 713.
- Hahn, H. F. (See Hahn, J. P., assignor.)
- Hahn, H. L., Trenton, N. J. Stay-bolt-breaking machine. No. 917,052; Apr. 6; Sp. p. 187; Gaz. vol. 141; p. 35.
- Hahn, J. P., assignor of one-fourth to H. F. Hahn, St. Louis, Mo. Combined canopy and ventilator for stoves. No. 916,699; Mar. 30; Sp. p. 6172; Gaz. vol. 140; p. 1105.
- Hahn, M., and G. Mayer, St. Louis, Mo. Automatic catch-hook and release for dredge-buckets. No. 919,003; Apr. 20; Sp. p. 4255; Gaz. vol. 141; p. 743.
- Hahn, R. E., Dayton, Ohio. Collapsible casket. No. 930,543; Aug. 10; Sp. p. 1893; Gaz. vol. 145; p. 334.
- Hahnke, R. C., assignor of one-third to H. M. Shaw and one-third to G. P. Crowe, Chicago, Ill. Advertising-vehicle. No. 925,173; June 15; Sp. p. 4419; Gaz. vol. 143; p. 754.
- Haid, H., Salem, Oreg. Potato-planter. No. 918,536; Apr. 20; Sp. p. 3205; Gaz. vol. 141; p. 587.
- Haigh, G., Fairfield, Wash. Car-axle. No. 925,090; June 15; Sp. p. 4261; Gaz. vol. 143; p. 726.
- Haight, F. (See Dreijer and Haight.)
- Haight, H. V., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, New York, N. Y. Valve mechanism for channeling-machines. No. 921,240; May 11; Sp. p. 2342; Gaz. vol. 142; p. 411.
- Haight, P. B., Omaha, Nebr. Amusement apparatus. No. 931,863; Aug. 24; Sp. p. 4736; Gaz. vol. 145; p. 820.
- Haight, W., Reading, Mich. Post and brace therefor. No. 925,174; June 15; Sp. p. 4421; Gaz. vol. 143; p. 755.
- Haight, W. H., Minneapolis, Minn. Holder for ice-cream cones. No. 943,070; Dec. 14; Sp. p. 2265; Gaz. vol. 149; p. 384.
- Haile, L. T., Philadelphia, Pa. Sound-reproducing machine. No. 919,856; Apr. 27; Sp. p. 6222; Gaz. vol. 141; p. 1061.
- Haile, L. T., Philadelphia, Pa. Sound-reproducing machine. No. 924,456; June 8; Sp. p. 2931; Gaz. vol. 143; p. 480.
- Haile, L. T., assignor, by mesne assignments, to Hawthorne & Sheble Manufacturing Company, Philadelphia, Pa. Gramophone. No. 914,826; Mar. 9; Sp. p. 2464; Gaz. vol. 140; p. 412.
- Haile, L. T., assignor of one-half to M. N. Weyl, W. A. Mackie, J. W. Shannon, F. J. Geiger, and L. W. Mulford, Philadelphia, Pa. Gramophone. No. 923,119; May 25; Sp. p. 6234; Gaz. vol. 142; p. 1080.
- Hailey, R. L., assignor to Lowe Electric Co., New York, N. Y. Electric heater. No. 917,053; Apr. 6; Sp. p. 188; Gaz. vol. 141; p. 35.
- Haillwood, E. A., Morley, England. Miner's safety-lamp. No. 908,769; Jan. 5; Sp. p. 718; Gaz. vol. 138; p. 112.
- Haiman, E., Cleveland, Ohio. Cultivator. No. 914,568; Mar. 9; Sp. p. 1925; Gaz. vol. 140; p. 328.
- Haiman, E., Cleveland, Ohio. Harrow. No. 937,239; Oct. 19; Sp. p. 3419; Gaz. vol. 147; p. 591.
- Haines, A. I. (See Harris, T. L., assignor.)
- Haines, G. B. (See Stryker, A. M., assignor.)
- Haines, G. T., Philadelphia, Pa. Ticket-case. No. 914,040; Mar. 2; Sp. p. 839; Gaz. vol. 140; p. 129.
- Haines, J. H. J., New York, N. Y., assignor to American Graphophone Company, Bridgeport, Conn. Graphophone. No. 920,324; May 4; Sp. p. 481; Gaz. vol. 142; p. 75.
- Haines, M. A., Cleveland, Ohio. Massage apparatus. No. 913,492; Feb. 23; Sp. p. 5076; Gaz. vol. 139; p. 906.
- Haines, R. G., Girard, Kans. Gyroscope. No. 919,004; Apr. 20; Sp. p. 4257; Gaz. vol. 141; p. 744.
- Haines, T., St. Louis, Mo. Pole-support. No. 922,763; May 25; Sp. p. 4549; Gaz. vol. 142; p. 966.
- Haines, W. R., *et al.* (See Hamilton, J. L., assignor.)
- Hainline, J. W., La Junta, Colo. Tray attachment for blackboards. No. 923,262; June 1; Sp. p. 311; Gaz. vol. 143; p. 49.
- Haire, D. E., Philadelphia, Pa. Gaseous-fluid compressor. No. 935,655; Oct. 5; Sp. p. 60; Gaz. vol. 147; p. 12.



*Alphabetical list of patentees—Continued.*

- Haislup, O. E., *et al.* (See Ward and Davidson, assignors.)
- Haitinger, E. A., Passaic, N. J. Car-window. No. 925,091; June 15; Sp. p. 4262; Gaz. vol. 143; p. 726.
- Håkanson, C. H. C., Vesterås, Sweden. Driving-wheel for sleighs. No. 935,104; Sept. 28; Sp. p. 4296; Gaz. vol. 146; p. 767.
- Hake, F. D., Milwaukee, Wis. Printing-press gripper. No. 924,983; June 15; Sp. p. 4051; Gaz. vol. 143; p. 690.
- Hake, F. D., Milwaukee, Wis. Printing-press gripper. No. 925,092; June 15; Sp. p. 4264; Gaz. vol. 143; p. 727.
- Hake, G. J., Hoytlen, Ill. Harrow. No. 915,289; Mar. 16; Sp. p. 3373; Gaz. vol. 140; p. 589.
- Hake, H., Council Bluffs, Iowa. Automatic display advertising device. No. 917,594; Apr. 6; Sp. p. 1234; Gaz. vol. 141; p. 216.
- Hake, W. E., assignor of one-half to J. S. Cotner, Branch, Ark. Lawn-mower. No. 911,719; Feb. 9; Sp. p. 1386; Gaz. vol. 139; p. 258.
- Hakes, A. H., Fairbanks, Alaska. Thawing-point. No. 910,375; Jan. 19; Sp. p. 3971; Gaz. vol. 138; p. 713.
- Hakins, G. B., Norwood, N. Y. Cleaning device. No. 938,421; Oct. 26; Sp. p. 5938; Gaz. vol. 147; p. 1007.
- Halbreich, C., New York, N. Y. Machine for making paper dishes. No. 926,866; July 6; Sp. p. 339; Gaz. vol. 144; p. 54.
- Haldeman, C. D., Milo, Iowa. Fence-gate. No. 908,564; Jan. 5; Sp. p. 277; Gaz. vol. 138; p. 46.
- Haldeman, C. F., assignor to Silver Manufacturing Company, Salem, Ohio. Adjustable table for jointers. No. 937,240; Oct. 19; Sp. p. 3420; Gaz. vol. 147; p. 592.
- Haldeman, J. R., Springfield, Mo. Mold. No. 929,938; Aug. 3; Sp. p. 673; Gaz. vol. 145; p. 107.
- Haldy, F. G., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Welding. No. 914,946; Mar. 9; Sp. p. 2688; Gaz. vol. 140; p. 451.
- Hale, C. C., Wapakoneta, Ohio. Trolley-pole base. No. 932,984; Aug. 31; Sp. p. 7054; Gaz. vol. 145; p. 1213.
- Hale, F. A., Chicago, Ill. Standard for desk-calendars. No. 916,550; Mar. 30; Sp. p. 5901; Gaz. vol. 140; p. 1059.
- Hale, F. M., Catford, England. Explosive shell. No. 926,558; June 29; Sp. p. 7196; Gaz. vol. 143; p. 1272.
- Hale, F. M., London, England. Explosive grenade. No. 940,527; Nov. 16; Sp. p. 4625; Gaz. vol. 148; p. 771.
- Hale, G. C., Kansas City, Mo. Wave-motor. No. 916,860; Mar. 30; Sp. p. 6460; Gaz. vol. 140; p. 1154.
- Hale, J. B., (See Hale, N. C., assignor.)
- Hale, J. B., assignor to E. B. Thomson, Providence, R. I. Watchcase-protector. No. 914,140; Mar. 2; Sp. p. 1039; Gaz. vol. 140; p. 164.
- Hale, J. O., Worcester, Mass. Lock for railway-switches. No. 924,984; June 15; Sp. p. 4054; Gaz. vol. 143; p. 690.
- Hale, J. O., Worcester, Mass. Lock for railway-switches. No. 927,789; July 13; Sp. p. 2260; Gaz. vol. 144; p. 390.
- Hale and Kilburn Manufacturing Company. (See Kilburn, J. B., assignor.)
- Hale and Kilburn Manufacturing Company. (See Kilburn and Budd, assignors.)
- Hale-Kilburn Metal Company. (See Budd, E. G., assignor.)
- Hale-Kilburn Metal Company. (See Budd and Wollé, assignors.)
- Hale, N. C., Boatright, Ky. Violin-tailpiece. No. 936,624; Oct. 12; Sp. p. 2172; Gaz. vol. 147; p. 359.
- Hale, N. C., assignor of one-half to J. B. Hale, Boatwright, Ky. Harrow. No. 921,608; May 11; Sp. p. 3111; Gaz. vol. 142; p. 532.
- Hales, J. C., *et al.* (See Nolley, D. D., assignor.)
- Haley, A. L., Los Angeles, Cal. Combined standing rocker and Morris chair. No. 927,234; July 6; Sp. p. 1105; Gaz. vol. 144; p. 179.
- Haley, J. H., Munith, Mich. Concrete-plant protector. No. 924,549; June 8; Sp. p. 3128; Gaz. vol. 143; p. 510.
- Haley, H., (See Grisell and Haley.)
- Haley, S., Ashland, Wis. Car-stake. No. 912,122; Feb. 9; Sp. p. 2244; Gaz. vol. 139; p. 388.
- Haley, W., (See Wyatt, J. H., assignor.)
- Haley, W. B., *et al.* (See King, C., assignor.)
- Halfpenny, A. G., West Hoboken, and J. A. Bergstrom, Passaic, N. J. Type setting and distributing machine. No. 936,776; Oct. 12; Sp. p. 2460; Gaz. vol. 147; p. 410.
- Hall, A. C., Sebastopol, Cal. Indicator for spark-plugs. No. 930,855; Aug. 10; Sp. p. 2532; Gaz. vol. 145; p. 437.
- Hall, A. F., deceased; T. H. Hall, administrator, Boston, Mass., assignor of one-half to F. M. Wheeler, Montclair, N. J. Steam-engine. No. 930,282; Aug. 3; Sp. p. 1339; Gaz. vol. 145; p. 221.
- Hall, A. W., Johnstown, Pa. Lamp. No. 909,785; Jan. 12; Sp. p. 2714; Gaz. vol. 138; p. 480.
- Hall, B., (See Hodgman and Hall.)
- Hall, B., Taunton, assignor to Rotary Ring Spinning Company, Boston, Mass. Holder for spinning-rings. No. 920,458; May 4; Sp. p. 743; Gaz. vol. 142; p. 119.
- Hall, C. E., *et al.* (See Neal, H. W., assignor.)
- Hall, C. E., Atwater, Minn. Stone-drill. No. 927,723; July 13; Sp. p. 2127; Gaz. vol. 144; p. 368.
- Hall, C. M., Niagara Falls, N. Y., assignor to Aluminum Company of America, New Kensington, Pa. Making alumina. No. 921,609; May 11; Sp. p. 3113; Gaz. vol. 142; p. 532.
- Hall, C. M., and G. P. Holmes, Jackson, Mich. Feed-regulator. No. 931,195; Aug. 17; Sp. p. 3320; Gaz. vol. 145; p. 578.
- Hall, C. M., and G. P. Holmes, Jackson, Mich. Feed-regulator. No. 931,196; Aug. 17; Sp. p. 3322; Gaz. vol. 145; p. 578.
- Hall, C. P., Chicago, Ill. Centrifugal governor. No. 942,900; Dec. 14; Sp. p. 1846; Gaz. vol. 149; p. 325.
- Hall, D., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 916,928; Mar. 30; Sp. p. 6606; Gaz. vol. 140; p. 1177.
- Hall, D. A., Greer, S. C. Railway-gate. No. 926,113; June 29; Sp. p. 6337; Gaz. vol. 143; p. 1125.
- Hall, D. M., (See Wright, W., assignor.)
- Hall, D. W., (See Dumond and Hall.)
- Hall, E., Waterloo township, Lyon county, Kans. Lightning-conductor and antihummer. No. 916,306; Mar. 23; Sp. p. 5363; Gaz. vol. 140; p. 951.
- Hall, E. A., Edgar, Nebr. Fruit-boiler. No. 919,346; Apr. 27; Sp. p. 5122; Gaz. vol. 141; p. 888.
- Hall, E. F., Fowler, Colo. Cigar-perforator. No. 935,973; Oct. 5; Sp. p. 797; Gaz. vol. 147; p. 118.
- Hall, E. L., assignor to Security Savings and Trust Company, Portland, Oreg. Purifying gas. No. 911,494; Feb. 2; Sp. p. 885; Gaz. vol. 139; p. 156.
- Hall, F., *et al.* (See Davis, C. B., assignor.)
- Hall, F. A., New York, N. Y. Pulley-block. No. 915,953; Mar. 23; Sp. p. 4713; Gaz. vol. 140; p. 836.
- Hall, F. M., assignor of two-thirds to J. and U. S. Goodwine, Potomac, Ill. Safety automatic switch. No. 915,854; Mar. 23; Sp. p. 4530; Gaz. vol. 140; p. 805.
- Hall, G. F., (See Wiley and Hall.)
- Hall, G. J., Malone, N. Y. Gentleman's garter. No. 914,268; Mar. 2; Sp. p. 1311; Gaz. vol. 140; p. 203.
- Hall, G. L., New York, N. Y. Insulated rail-joint. No. 937,369; Oct. 19; Sp. p. 3674; Gaz. vol. 147; p. 633.
- Hall, G. L., assignor to National Railway Materials Company, New York, N. Y. Guard-rail clamp. No. 938,848; Nov. 2; Sp. p. 851; Gaz. vol. 148; p. 137.
- Hall, G. M., Keene, N. H. Machine for shaping irregular forms. No. 934,437; Sept. 21; Sp. p. 2966; Gaz. vol. 146; p. 517.
- Hall, G. N., Pewaukee, Wis. Clasp. No. 933,752; Sept. 14; Sp. p. 1626; Gaz. vol. 146; p. 267.
- Hall, G. T., Weatherford, Tex. Figure toy. No. 938,318; Oct. 26; Sp. p. 5698; Gaz. vol. 147; p. 970.
- Hall, G. W., (See Dazey and Hall.)
- Hall, H., Mantion, Mich. Valve. No. 926,739; July 6; Sp. p. 64; Gaz. vol. 144; p. 10.
- Hall, H. A., and J. Hercker, Burlington, N. J., assignors to Thomas Devlin & Co., Philadelphia, Pa. Machine for galvanizing. No. 914,827; Mar. 9; Sp. p. 2465; Gaz. vol. 140; p. 412.
- Hall, J., (See Jones and Hall.)
- Hall, J., Jr., West Springfield, Mass. Tide-power device. No. 926,408; June 29; Sp. p. 6934; Gaz. vol. 143; p. 1221.
- Hall, J. B., Philadelphia, Pa. Reaming and clamping device for horn and other material. No. 914,041; Mar. 2; Sp. p. 841; Gaz. vol. 140; p. 129.
- Hall, J. E., (See Wiley and Hall.)
- Hall, J. G., O'Fallon, Ill. Chalk-line holder. No. 927,790; July 13; Sp. p. 2263; Gaz. vol. 144; p. 390.
- Hall, J. H., and J. F. Schnabel, New York, N. Y., assignors to Electric Controller and Manufacturing Company, Cleveland, Ohio. Control system for electric hoists. No. 915,290; Mar. 16; Sp. p. 3374; Gaz. vol. 140; p. 589.
- Hall, J. H., Cleveland, Ohio, and J. F. Schnabel, New York, N. Y., assignors to Electric Controller and Manufacturing Company, Cleveland, Ohio. Control system for electric hoists. (Reissue.) No. 13,019; Sept. 7; Sp. p. 1594; Gaz. vol. 146; p. 241.
- Hall, J. I., East Worcester, N. Y. Folding crate. No. 939,250; Nov. 9; Sp. p. 1735; Gaz. vol. 148; p. 301.
- Hall, J. K., (See Scott, E., assignor.)
- Hall, J. L., Schenectady, N. Y., assignor to General Electric Company. Alarm device for gun-turrets. No. 913,493; Feb. 23; Sp. p. 5077; Gaz. vol. 139; p. 907.
- Hall, J. L., Schenectady, N. Y., assignor to General Electric Company. Signal system. No. 918,848; Apr. 20; Sp. p. 3923; Gaz. vol. 141; p. 691.
- Hall, J. L., Schenectady, N. Y., assignor to General Electric Company. Supply system for telephone-circuits. No. 925,093; June 15; Sp. p. 4265; Gaz. vol. 143; p. 727.
- Hall, J. L., and A. F. Knight, Schenectady, N. Y., assignors to General Electric Company. System of distribution. No. 921,693; May 18; Sp. p. 3305; Gaz. vol. 142; p. 588.

*Alphabetical list of patentees—Continued.*

- Hall, J. P. (See Bassford, W. K., assignor.)
- Hall, J. T., Hopkinsville, Ky. Folding chair. No. 931,864; Aug. 24; Sp. p. 4738; Gaz. vol. 145; p. 820.
- Hall, J. W., Wrightstown, Pa. Bundle-tying machine. No. 912,470; Feb. 16; Sp. p. 2979; Gaz. vol. 139; p. 539.
- Hall, J. W., Smithdale, Miss. Axle-nut wrench. No. 921,540; May 11; Sp. p. 2967; Gaz. vol. 142; p. 510.
- Hall, L. E., Chicago, Ill. Adjustable lamp-holder. No. 926,114; June 29; Sp. p. 6339; Gaz. vol. 143; p. 1125.
- Hall, M. W., San Francisco, Cal. Egg-whisker and cake-mixer. No. 917,289; Apr. 6; Sp. p. 684; Gaz. vol. 141; p. 116.
- Hall, M. W., Brooklyn, N. Y. Anchor. No. 941,776; Nov. 30; Sp. p. 7325; Gaz. vol. 148; p. 1234.
- Hall, M. W., Brooklyn, N. Y., assignor of one-half to A. W. Jansen, New York, N. Y. Anchor. No. 922,137; May 18; Sp. p. 4195; Gaz. vol. 142; p. 733.
- Hall, N. L., San Diego, Cal. Dam. No. 923,831; June 8; Sp. p. 1662; Gaz. vol. 143; p. 275.
- Hall, P. M. (See McCord, Clark, and Hall.)
- Hall Printing Press Company. (See White, J., assignor.)
- Hall, R. H., Del Rio, Tex. Stove-lifter. No. 910,810; Jan. 26; Sp. p. 4882; Gaz. vol. 138; p. 881.
- Hall, S. F., Niagara Falls, N. Y., assignor to Norton Company, Worcester, Mass. Electric furnace. No. 914,489; Mar. 9; Sp. p. 1756; Gaz. vol. 140; p. 301.
- Hall, S. S., assignor to Pickering Governor Co., Portland, Conn. Engine-governor. No. 937,993; Oct. 26; Sp. p. 4989; Gaz. vol. 147; p. 860.
- Hall, S. W., *et al.* (See Essick, W. F., assignor.)
- Hall Signal Company. (See Coleman, C. J., assignor.)
- Hall Signal Company. (See Coleman, C. W., assignor.)
- Hall, T. (See Pangborn and Hall.)
- Hall, T., assignor to Ridgway Dynamo & Engine Company, Ridgway, Pa. Piston. No. 938,481; Nov. 2; Sp. p. 65; Gaz. vol. 148; p. 12.
- Hall, T. A., Jackson, Mich. Bolt-cutter. No. 926,559; June 29; Sp. p. 7197; Gaz. vol. 143; p. 1273.
- Hall, T. E., administrator. (See Hall, A. F.)
- Hall, T. M. (See Harper, G. A., assignor.)
- Hall, T. J., *et al.* (See Cartin, J., assignor.)
- Hall, T. P., Vancouver, British Columbia, Canada. Graphophone. No. 910,529; Jan. 26; Sp. p. 4297; Gaz. vol. 138; p. 789.
- Hall, U. K., Portland, Ore. Desk-basket. No. 921,694; May 18; Sp. p. 3307; Gaz. vol. 142; p. 588.
- Hall, W. A. (See Story and Hall.)
- Hall, W. A., New York, N. Y. Transforming wood. No. 933,437; Sept. 7; Sp. p. 889; Gaz. vol. 146; p. 139.
- Hall, W. A., Sr., Pardeeville, Wis. Potato-planting machine. No. 940,147; Nov. 16; Sp. p. 3767; Gaz. vol. 148; p. 642.
- Hall, W. A., Sr., Pardeeville, Wis. Potato-planter. No. 941,449; Nov. 30; Sp. p. 6634; Gaz. vol. 148; p. 1124.
- Hall, W. A., New York, N. Y., assignor to American Mahogany Company. Coloring wood. No. 913,128; Feb. 23; Sp. p. 4341; Gaz. vol. 139; p. 785.
- Hall, W. A., New York, N. Y., assignor to American Mahogany Company. Treating wood for lumber. No. 924,770; June 15; Sp. p. 3606; Gaz. vol. 143; p. 619.
- Hall, W. A., New York, N. Y., assignor to American Mahogany Company. Coloring wood. No. 933,435; Sept. 7; Sp. p. 886; Gaz. vol. 146; p. 139.
- Hall, W. A., New York, N. Y., assignor to American Mahogany Company. Coloring or transforming wood. No. 933,436; Sept. 7; Sp. p. 887; Gaz. vol. 146; p. 139.
- Hall, W. A., New York, N. Y., assignor to American Mahogany Company. Coloring wood. No. 939,014; Nov. 2; Sp. p. 1219; Gaz. vol. 148; p. 194.
- Hall, W. A., New York, N. Y., assignor to American Mahogany Company. Coloring wood. No. 939,015; Nov. 2; Sp. p. 1220; Gaz. vol. 148; p. 195.
- Hall, W. A., New York, N. Y., assignor to American Mahogany Company. Coloring and graining wood. No. 939,016; Nov. 2; Sp. p. 1222; Gaz. vol. 148; p. 195.
- Hall, W. E., Hopedale, Ohio. Nut-lock. No. 925,899; June 22; Sp. p. 5903; Gaz. vol. 143; p. 1020.
- Hall, W. H., Chicago, Ill. Calendar. No. 909,290; Jan. 12; Sp. p. 1750; Gaz. vol. 138; p. 315.
- Hall, W. H., Clyde, Ill. Calendar frame and card. No. 909,291; Jan. 12; Sp. p. 1753; Gaz. vol. 138; p. 315.
- Hall, W. H., Clyde, assignor to Charles W. Shonk Company, Chicago, Ill. Show-rack. No. 928,964; July 27; Sp. p. 4675; Gaz. vol. 144; p. 839.
- Hall, W. H., Clyde, assignor to Charles W. Shonk Company, Maywood, Ill. Easel for desk-calendars, cards, and other articles. No. 929,939; Aug. 3; Sp. p. 676; Gaz. vol. 145; p. 107.
- Hall, W. H., Clyde, assignor to Charles W. Shonk Company, Maywood, Ill. Sheet-metal clock-case and calendar-holder. No. 929,940; Aug. 3; Sp. p. 677; Gaz. vol. 145; p. 108.
- Hall, W. J., New York, N. Y. Clothes-drier. No. 924,550; June 8; Sp. p. 3129; Gaz. vol. 143; p. 510.
- Hall, W. L., Boston, Mass. Tag. No. 915,054; Mar. 9; Sp. p. 2864; Gaz. vol. 140; p. 485.
- Halladay, C. H. (See Turner, D., assignor.)
- Halladay, C. H., *et al.* (See Turner, D., assignor.)
- Halladay, J. J., Brooklyn, N. Y. Antirattling device. No. 930,072; Aug. 3; Sp. p. 947; Gaz. vol. 145; p. 153.
- Halladay, L. P., assignor to Streater Metal Stamping Company, Streater, Ill. Carpet-sweeper. No. 917,054; Apr. 6; Sp. p. 190; Gaz. vol. 141; p. 35.
- Hallam, E., assignor of one-half to Manchester Guardian Limited, Manchester, England. Delivery apparatus. No. 925,175; June 15; Sp. p. 4422; Gaz. vol. 143; p. 755.
- Hallam, T. C., Gardner, Ill. Mine-firing device. No. 936,885; Oct. 12; Sp. p. 2676; Gaz. vol. 147; p. 446.
- Hallam, W. R., Superior, Wis. Storm-sash-holding device. No. 933,555; Sept. 7; Sp. p. 1219; Gaz. vol. 146; p. 179.
- Hallar, J., Mulberry, Ind. Hen's nest. No. 917,862; Apr. 13; Sp. p. 1813; Gaz. vol. 141; p. 331.
- Hallaue, C. H., Los Angeles, Cal. Fruit-washer. No. 935,201; Sept. 28; Sp. p. 4479; Gaz. vol. 146; p. 797.
- Halleland, K. J. (See Høiland and Halleland.)
- Halleman, R. L., Memphis, Tenn. Changeable sign for street-cars. No. 910,669; Jan. 26; Sp. p. 4592; Gaz. vol. 138; p. 835.
- Hallenbeck, G. B. (See Miller and Hallenbeck.)
- Hallenberg, A., Fargo, N. D. Hand mixing-receptacle. No. 939,017; Nov. 2; Sp. p. 1223; Gaz. vol. 148; p. 195.
- Haller, J. F., Sheridanville, Pa. Filling-machine. No. 938,482; Nov. 2; Sp. p. 66; Gaz. vol. 148; p. 12.
- Hallet & Davis Piano Co. (See Glossa, R., assignor.)
- Hallett, E. N., Canton, Pa. Trousers-stretcher. No. 939,831; Nov. 9; Sp. p. 3042; Gaz. vol. 148; p. 502.
- Hallett, J. E., Longbeach, Cal. Vehicle-wheel. No. 916,551; Mar. 30; Sp. p. 5903; Gaz. vol. 140; p. 1059.
- Haley, E., Chicago, Ill. Valve. No. 921,981; May 18; Sp. p. 3898; Gaz. vol. 142; p. 682.
- Halliwell, R. F., Rugby, England, assignor to General Electric Company. Shaft-bearing. No. 927,791; July 13; Sp. p. 2264; Gaz. vol. 144; p. 391.
- Halloock, A. T., Grand Rapids, Mich. Fireless cooker. No. 917,055; Apr. 6; Sp. p. 191; Gaz. vol. 141; p. 36.
- Halloock, A. T., Grand Rapids, Mich. Fireless cooker. No. 917,056; Apr. 6; Sp. p. 192; Gaz. vol. 141; p. 36.
- Halloock, D. E. (See Halloock, D. Y. and D. E.)
- Halloock, D. Y. and D. E., assignors to A. B. Farquhar Company, Limited, York, Pa. Potato-digger. No. 933,980; Sept. 14; Sp. p. 2066; Gaz. vol. 146; p. 341.
- Halloock, R. A., St. Louis, Mo. Game-board. No. 937,796; Oct. 26; Sp. p. 4587; Gaz. vol. 147; p. 795.
- Halloock, R. B., Portland, Ore. Illuminated telephone-dial. No. 943,305; Dec. 14; Sp. p. 2736; Gaz. vol. 149; p. 462.
- Halloock, W., New York, N. Y. Manufacturing sulfuric acid. No. 930,471; Aug. 10; Sp. p. 1707; Gaz. vol. 145; p. 309.
- Hallowell, A., assignor to W. S. Lamson, Lowell, Mass. Hand-wheel. No. 935,019; Sept. 28; Sp. p. 4108; Gaz. vol. 146; p. 736.
- Hallowell, H. T., assignor to Standard Pressed Steel Company, Philadelphia, Pa. Making shaft-collars. No. 926,000; June 22; Sp. p. 6085; Gaz. vol. 143; p. 1052.
- Hallowell, W. S., *et al.* (See Gibson, G. H., assignor.)
- Hallowell, W. S., and J. W. Gamble, Philadelphia, Pa. Feed-water heater and separator. No. 926,115; June 29; Sp. p. 6339; Gaz. vol. 143; p. 1125.
- Hallwood, A. (See Hallwood, H. S., assignor.)
- Hallwood, H. S., assignor, by mesne assignments, to himself and A. Hallwood, Columbus, Ohio. Cash-register. No. 909,786; Jan. 12; Sp. p. 2716; Gaz. vol. 138; p. 480.
- Hallwood, H. S., assignor, by mesne assignments, of one-third to J. F. Pixley, one-sixth to C. H. Pumphrey, one-third to A. S. Wells, and one-sixth to M. S. Park, Columbus, Ohio. Recording-lock. No. 937,370; Oct. 19; Sp. p. 3677; Gaz. vol. 147; p. 634.
- Hally, A., New York, N. Y. Rope-measuring machine. No. 916,148; Mar. 23; Sp. p. 5084; Gaz. vol. 140; p. 900.
- Halpern, E., Harrison, N. Y. Photograph holder and exhibitor. No. 918,040; Apr. 13; Sp. p. 2198; Gaz. vol. 141; p. 395.
- Halsey, E. R., South Orange, N. J. Steering mechanism for motor-vehicles. No. 913,494; Feb. 23; Sp. p. 5079; Gaz. vol. 139; p. 907.
- Halsey, E. S., Nahant, Mass. Thermostatic motor. No. 916,861; Mar. 30; Sp. p. 6463; Gaz. vol. 140; p. 1154.
- Halsey J. Tibbals Chemical Manufacturing Company. (See Ferry, F. S., assignor.)



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- Halstead, F. H., Pittsfield, Mass. Hydraulic brake. No. 944,429; Dec. 28; Sp. p. 5142; Gaz. vol. 149; p. 902.
- Halstead, H. and L. Niksch, Hobart, Ind. Hose-coupling. No. 937,437; Oct. 19; Sp. p. 3850; Gaz. vol. 147; p. 656.
- Halstead, J. W., Kansas City, Mo., assignor to Wolf Company. Fodder-cutter. No. 933,901; Sept. 14; Sp. p. 1913; Gaz. vol. 146; p. 316.
- Halterman, A. C. and W. S., Buckhannon, assignors of one-half to C. W. Halterman, Clarksburg, W. Va. Rail-joint. No. 933,438; Sept. 7; Sp. p. 890; Gaz. vol. 146; p. 139.
- Halterman, C. W. (See Halterman, A. C. and W. S., assignors.)
- Halterman, W. S. (See Halterman, A. C. and W. S.)
- Halverson, B. E., Leetonia, Ohio. Gas-engine. No. 936,318; Oct. 12; Sp. p. 1478; Gaz. vol. 147; p. 255.
- Halvorsen, B. F., assignor to Norsk Hydro-Elektrisk Kvaelfstoffaktieselskab, Christiania, Norway. Absorbing oxides of nitrogen. No. 910,530; Jan. 26; Sp. p. 4298; Gaz. vol. 138; p. 789.
- Halvorsen, B. F., assignor to Norsk Hydro-Elektrisk Kvaelfstoffaktieselskab, Christiania, Norway. Making solid fertilizers. No. 936,317; Oct. 12; Sp. p. 1477; Gaz. vol. 147; p. 255.
- Halvorsen, O., Schenectady, N. Y. Train-position indicator. No. 918,537; Apr. 20; Sp. p. 3208; Gaz. vol. 141; p. 587.
- Halvorson, C. A. B., Jr. (See Fleming and Halvorson, Jr.)
- Halvorson, C. A. B., Jr., Lynn, Mass., assignor to General Electric Company. Arc-lamp. No. 910,670; Jan. 26; Sp. p. 4593; Gaz. vol. 138; p. 835.
- Halvorson, C. A. B., Jr., Lynn, Mass., assignor to General Electric Company. Arc-lamp. No. 913,209; Feb. 23; Sp. p. 4504; Gaz. vol. 139; p. 811.
- Ham, A. W., Troy, N. Y. Track-sander. No. 942,726; Dec. 7; Sp. p. 1440; Gaz. vol. 149; p. 235.
- Hamacek, A. F., assignor of one-half to D. B. Baker, Chicago, Ill. Moving-picture machine. No. 909,404; Jan. 12; Sp. p. 9165; Gaz. vol. 138; p. 350.
- Hamacek, A. F., assignor of one-half to D. B. Baker, Chicago, Ill. Moving-picture machine. No. 925,697; June 22; Sp. p. 5436; Gaz. vol. 143; p. 951.
- Hamacek, A. L., Kewaunee, Wis. Pea-separator. No. 909,587; Jan. 12; Sp. p. 2330; Gaz. vol. 138; p. 413.
- Hamacher-Hawkins Manufacturing Co. (See Hamacher, L. D., assignor.)
- Hamacher, L. D., Kansas City, Mo., assignor to Hamacher-Hawkins Manufacturing Co. Loose-leaf book. No. 936,448; Oct. 12; Sp. p. 1800; Gaz. vol. 147; p. 299.
- Hamann, R. W., assignor to E. J. Feiner, St. Louis, Mo. Nozzle for boiler-tube cleaners. No. 908,565; Jan. 5; Sp. p. 279; Gaz. vol. 138; p. 47.
- Hamann, R. W., assignor to E. J. Feiner, St. Louis, Mo. Boiler-flue cleaner. No. 915,347; Mar. 16; Sp. p. 3484; Gaz. vol. 140; p. 608.
- Hambin, F. H., Worcester, Mass. Trap. No. 935,974; Oct. 5; Sp. p. 797; Gaz. vol. 147; p. 118.
- Hambin, F. H., Worcester, Mass. Device for making wire fabrics. No. 936,625; Oct. 12; Sp. p. 2173; Gaz. vol. 147; p. 359.
- Hambin, F. H., Worcester, Mass. Kitchen utensil. No. 939,251; Nov. 9; Sp. p. 1737; Gaz. vol. 148; p. 302.
- Hambin, S. M., Stoughton, Mass., assignor, by mesne assignments, to Krentler-Arnold Hinge Last Company, Detroit, Mich. Last. No. 929,849; Aug. 3; Sp. p. 485; Gaz. vol. 145; p. 77.
- Hamburg-Amerikanische Uhrenfabrik. (See Vonhausen, A., assignor.)
- Hamburger, A., and H. Imhof, Vienna, Austria-Hungary. Daylight developer. No. 925,338; June 15; Sp. p. 4714; Gaz. vol. 143; p. 805.
- Hamburger, E. W., assignor to Stransky & Co., New York, N. Y. Cooking or heating utensil. No. 914,828; Mar. 9; Sp. p. 2470; Gaz. vol. 140; p. 413.
- Hamby, J. A., and S. S. Butcher, Columbus, Ga. Locomotive-headlight. No. 939,832; Nov. 9; Sp. p. 3044; Gaz. vol. 148; p. 502.
- Hamel, L. W. (See Simpson, W. J., assignor.)
- Hamell, C. (See Smith and Hamell.)
- Hamer, H. G., Hooversville, Pa. Slack-adjuster for railway-brakes. No. 944,609; Dec. 28; Sp. p. 5573; Gaz. vol. 149; p. 966.
- Hamer, P., Caddo, Okla. Gate for railway-crossings. No. 917,939; Apr. 13; Sp. p. 1971; Gaz. vol. 141; p. 358.
- Hamerton, C. W. (See Fry, T. E., assignor.)
- Hames, J. C., Goldfield, Nev. Assaying. No. 913,129; Feb. 23; Sp. p. 4342; Gaz. vol. 139; p. 785.
- Hames, J. C., Goldfield, Nev. Assaying composition. No. 938,849; Nov. 2; Sp. p. 854; Gaz. vol. 148; p. 137.
- Hames, J. C., Goldfield, Nev. Assaying for silver. No. 939,413; Nov. 9; Sp. p. 2158; Gaz. vol. 148; p. 358.
- Hamilton, A. J., A. J., Milton, Mass. Draining apparatus for surgical use. No. 920,459; May 4; Sp. p. 744; Gaz. vol. 142; p. 119.
- Hamilton, A. T., Treat, Ga. Bag-fastener. No. 917,595; Apr. 6; Sp. p. 1237; Gaz. vol. 141; p. 217.
- Hamilton, B., New York, N. Y. Game apparatus. No. 941,194; Nov. 23; Sp. p. 6077; Gaz. vol. 148; p. 1020.
- Hamilton, B. H., and W. E. Var Planck, Lynn, Mass., assignors to General Electric Company. Turbo-generator. No. 920,052; Apr. 27; Sp. p. 6620; Gaz. vol. 141; p. 1126.
- Hamilton, C. F. (See Nuernberg, J. C., assignor.)
- Hamilton, C. F., assignor of one-half to J. C. Nuernberg, Athens, Wis. Phonograph. No. 920,134; May 4; Sp. p. 89; Gaz. vol. 142; p. 13.
- Hamilton, C. H., West Kensington, London, England. Grinding-mill. No. 944,550; Dec. 28; Sp. p. 5436; Gaz. vol. 149; p. 943.
- Hamilton, C. H., assignor of one-half to G. R. Thayer, Chicago, Ill. Check-selecting mechanism. No. 930,544; Aug. 10; Sp. p. 1895; Gaz. vol. 145; p. 355.
- Hamilton, C. H., and G. R. Thayer, Chicago, Ill., assignors to Automatic Musical Company, Binghamton, N. Y. Web-controlling mechanism for self-playing instruments. No. 937,933; Oct. 26; Sp. p. 4866; Gaz. vol. 147; p. 840.
- Hamilton, E. D., assignor of one-half to M. W. Storm, Mattoon, Ill. Wrench. No. 938,319; Oct. 26; Sp. p. 5700; Gaz. vol. 147; p. 971.
- Hamilton, E. J., Indiana Harbor, Ind. Steam-engine. No. 944,035; Dec. 21; Sp. p. 4311; Gaz. vol. 149; p. 743.
- Hamilton, F., Providence, R. I. Eyeglasses. No. 940,683; Nov. 23; Sp. p. 4971; Gaz. vol. 148; p. 848.
- Hamilton, G. H., Portland, Ore. Permutation-lock. No. 942,553; Dec. 7; Sp. p. 1097; Gaz. vol. 149; p. 178.
- Hamilton, G. H., assignor to Burham Safety Razor Co., New York, N. Y. Safety-razor. No. 927,349; July 6; Sp. p. 1301; Gaz. vol. 144; p. 215.
- Hamilton, H. F., Boston, Mass. Dental syringe. No. 919,717; Apr. 27; Sp. p. 5913; Gaz. vol. 141; p. 1015.
- Hamilton, J., Weir, Kans. Rim-tightener for vehicle-wheels. No. 911,403; Feb. 2; Sp. p. 739; Gaz. vol. 139; p. 128.
- Hamilton, J., Seattle, Wash. Gold-saving machine. No. 942,962; Dec. 14; Sp. p. 1998; Gaz. vol. 149; p. 846.
- Hamilton, J. A. (See Ward and Hamilton.)
- Hamilton, J. L., assignor of one-fourth to W. R. Haines and one-fourth to C. Van Hoosebeke, Grand Junction, Colo. Orchard-heating device. No. 940,965; Nov. 23; Sp. p. 5568; Gaz. vol. 148; p. 942.
- Hamilton, J. M., Cumberland, Md. Adjustable shade-bracket. No. 918,849; Apr. 20; Sp. p. 3931; Gaz. vol. 141; p. 692.
- Hamilton, J. T., Council Bluffs, Iowa. Wear-strip for cart and wagon bodies. No. 938,280; Oct. 26; Sp. p. 5512; Gaz. vol. 147; p. 942.
- Hamilton, L. I., New Madrid, Mo. Automatic pencil-sharpener. No. 919,005; Apr. 20; Sp. p. 4258; Gaz. vol. 141; p. 744.
- Hamilton, L. I., New Madrid, Mo. Cotton-picker. No. 923,649; June 1; Sp. p. 1197; Gaz. vol. 143; p. 184.
- Hamilton, L. J., Guyton, Okla. Attachment for furrow-wheels. No. 928,446; July 20; Sp. p. 3643; Gaz. vol. 144; p. 641.
- Hamilton Machine Tool Company. (See Baerbalck, H., assignor.)
- Hamilton Manufacturing Company. (See Gaumer, A. F., assignor.)
- Hamilton, R., Birmingham, Ala. Derailer. No. 911,021; Jan. 26; Sp. p. 5270; Gaz. vol. 138; p. 947.
- Hamilton, R., Boston, Mass. Telephone system and the like. No. 935,105; Sept. 28; Sp. p. 4297; Gaz. vol. 146; p. 768.
- Hamilton, R. F. (See Savage, W. H., assignor.)
- Hamilton, R. F., New York, N. Y. Automatic slack-adjuster for brakes. No. 939,018; Nov. 2; Sp. p. 1225; Gaz. vol. 148; p. 195.
- Hamilton, S. A., Schenectady, N. Y. Egg-grate. No. 908,663; Jan. 5; Sp. p. 504; Gaz. vol. 138; p. 79.
- Hamilton, T. G., Indianapolis, Ind. Indian magazine-pistol. No. 927,040; July 6; Sp. p. 716; Gaz. vol. 144; p. 113.
- Hamilton, V. J., et al. (See Herr, C. H., assignor.)
- Hamilton, W. S., assignor of seventeen-fortieths to B. Rutley, Oakland, Cal. Heater. No. 924,771; June 15; Sp. p. 3608; Gaz. vol. 143; p. 619.
- Hamilton, W. S., and J. R. Williams, Houston, Tex. Washing-machine. No. 917,290; Apr. 6; Sp. p. 685; Gaz. vol. 141; p. 116.
- Hamler, R. W., Lewisburg, Pa. Currycomb attachment. No. 921,695; May 18; Sp. p. 3308; Gaz. vol. 142; p. 589.
- Hamlin, H. W., Milo, Me. Automatic pay-station. No. 935,150; Sept. 28; Sp. p. 4381; Gaz. vol. 146; p. 782.
- Hamlin, P. M., Catawissa, Pa., assignor of one-half to C. H. Unverzagt, New York, N. Y. Composite fiber and making the same. No. 931,865; Aug. 24; Sp. p. 4739; Gaz. vol. 145; p. 820.
- Hamiyn, H. W., et al. (See Miller, D. C., assignor.)
- Hamm, F. A., Olean, N. Y. Device for operating headlights. No. 911,394; Feb. 2; Sp. p. 725; Gaz. vol. 139; p. 125.
- Hamm, W. S., Lakeside, Ill. Lantern-burner. No. 910,671; Jan. 26; Sp. p. 4595; Gaz. vol. 138; p. 836.
- Hamm, W. S., Hubbard Woods, Ill. Lantern. No. 910,672; Jan. 26; Sp. p. 4596; Gaz. vol. 138; p. 836.
- Hamm, W. S., Hubbard Woods, Ill. Lantern. No. 910,673; Jan. 26; Sp. p. 4597; Gaz. vol. 138; p. 836.
- Hamm, W. S., Hubbard Woods, Ill. Lantern. No. 915,595; Mar. 16; Sp. p. 3999; Gaz. vol. 140; p. 690.
- Hamm, W. S., Lakeside, Ill. Lantern-burner. No. 919,347; Apr. 27; Sp. p. 5122; Gaz. vol. 141; p. 889.
- Hamm, W. S., Hubbard Woods, Ill. Lantern. No. 920,053; Apr. 27; Sp. p. 6623; Gaz. vol. 141; p. 1126.
- Hamm, W. S., Hubbard Woods, Ill. Baggage-rack. No. 927,235; July 6; Sp. p. 1108; Gaz. vol. 144; p. 179.
- Hamm, W. S., Hubbard Woods, Ill. Lantern. (Reissue.) No. 12,995; July 27; Sp. p. 6087; Gaz. vol. 144; p. 1064.

*Alphabetical list of patentees—Continued.*

- Hamn, W. S., Hubbard Woods, Ill. Baggage-rack. No. 932,121; Aug. 24; Sp. p. 5313; Gaz. vol. 145; p. 905.
- Hamn, W. S., Hubbard Woods, assignor to Adams & Westlake Company, Chicago, Ill. Lantern. No. 934,438; Sept. 21; Sp. p. 2969; Gaz. vol. 146; p. 518.
- Hamn, W. S., Newton, Mass., assignor, by mesne assignments, to Krentler-Arnold Hinge Last Company, Detroit, Mich. Last. No. 942,554; Dec. 7; Sp. p. 1100; Gaz. vol. 149; p. 178.
- Hamn, W. S., Hubbard Woods, and T. A. Legge, assignors to Adams & Westlake Company, Chicago, Ill. Berth-lamp. No. 942,963; Dec. 14; Sp. p. 2001; Gaz. vol. 149; p. 347.
- Hammack, H. H. (See Trammell and Hammack.)
- Hammar, S. A. S. (See Meigs and Hammar.)
- Hammel, C. A., Los Angeles, Cal. Combined steam generator and superheater. No. 931,866; Aug. 24; Sp. p. 4741; Gaz. vol. 145; p. 821.
- Hammel, C. A., Los Angeles, Cal. Oil-burning furnace. No. 935,202; Sept. 28; Sp. p. 4481; Gaz. vol. 146; p. 797.
- Hammel Riglander & Co. (See Bowers, G. W., assignor.)
- Hammell, J. E. (See Spang, J. O., assignor.)
- Hammer, C., Buffalo, N. Y. Animal-cleaning apparatus. No. 908,991; Jan. 5; Sp. p. 1157; Gaz. vol. 138; p. 184.
- Hammer, C., Manor Park, London, England. Taximeter. No. 931,756; Aug. 24; Sp. p. 4518; Gaz. vol. 145; p. 785.
- Hammer, C., assignor to American Metal Cap Company, New York, N. Y. Bottle cap or closure. No. 910,128; Jan. 19; Sp. p. 3415; Gaz. vol. 138; p. 626.
- Hammer, E. (See Knieper, W., assignor.)
- Hammer, F. F., *et al.* (See Wagner, F., assignor.)
- Hammer, G. O., assignor to Berlin Machine Works, Beloit, Wis. Multiple gage. No. 913,641; Feb. 23; Sp. p. 5440; Gaz. vol. 139; p. 958.
- Hammer, G. O., assignor to Berlin Machine Works, Beloit, Wis. Locking mechanism for gaging devices. No. 917,759; Apr. 13; Sp. p. 1582; Gaz. vol. 141; p. 298.
- Hammer, M. S., Coeur d'Alene, Idaho. Magazine-hammer. No. 917,291; Apr. 6; Sp. p. 688; Gaz. vol. 141; p. 117.
- Hammerly, F., Silvana, Wash. Brush-ax. No. 914,947; Mar. 9; Sp. p. 2689; Gaz. vol. 140; p. 451.
- Hammerly, W. A., *et al.* (See Conkell, E. W., assignor.)
- Hammerschlag, G. W., New York, N. Y. Light-stand. No. 918,850; Apr. 20; Sp. p. 3932; Gaz. vol. 141; p. 692.
- Hammerschlag, A., New York, N. Y. Non-refillable bottle. No. 909,890; Jan. 19; Sp. p. 2936; Gaz. vol. 138; p. 546.
- Hammett, G., Butte, Mont. Phonographic attachment for motion-picture machines. No. 926,940; July 6; Sp. p. 485; Gaz. vol. 144; p. 79.
- Hammett, J. W., Eureka, W. Va. Filter. No. 939,497; Nov. 9; Sp. p. 2327; Gaz. vol. 148; p. 386.
- Hammetter, A. H. (See Pfeifferkorn, Schloerb, and Hammetter.)
- Hamnick, L. (See McGuire and Hamnick.)
- Hamnill, J. H., assignor of one-twentieth to C. P. Murray and fifty-one one-hundredths to A. Dugane, Cedar Rapids, Iowa. Cattle-guard. No. 923,512; June 1; Sp. p. 890; Gaz. vol. 143; p. 136.
- Hamnill, J. H., assignor of fifty-one one-hundredths to C. P. Murray, twenty-four one-hundredths to A. J. Murray, and one-fourth to J. E. Murray, Cedar Rapids, Iowa. Reinforced-concrete cattle-guard. No. 928,192; July 13; Sp. p. 3084; Gaz. vol. 144; p. 525.
- Hamnitt, S. R., Newfield, N. J. Planter. No. 918,041; Apr. 13; Sp. p. 2200; Gaz. vol. 141; p. 395.
- Hammon, W. H., Pittsburg, Pa. Pipe-coupling. No. 931,296; Aug. 17; Sp. p. 3557; Gaz. vol. 145; p. 613.
- Hammond, C. H., Baltimore, Md., assignor to Lester-Adams Tobacco Press Company. Tobacco-press. No. 940,803; Nov. 23; Sp. p. 5242; Gaz. vol. 148; p. 890.
- Hammond, E. B., New Bedford, Mass. Stove. No. 918,042; Apr. 13; Sp. p. 2201; Gaz. vol. 141; p. 396.
- Hammond, G., Chicago, Ill. Hoisting apparatus. No. 940,148; Nov. 16; Sp. p. 3768; Gaz. vol. 148; p. 642.
- Hammond, G. O., Meadville, Pa. Draw-bar and yoke-fastening for draft-gears. No. 909,085; Jan. 5; Sp. p. 1340; Gaz. vol. 138; p. 214.
- Hammond, H., Smithfield, Ohio. Collar-stay. No. 916,949; Mar. 30; Sp. p. 6653; Gaz. vol. 140; p. 1185.
- Hammond, J. L., assignor of one-half to J. W. Patton, Macon, Mo. Cylinder-roller film-steadier for moving-picture machines. No. 917,727; Apr. 6; Sp. p. 491; Gaz. vol. 141; p. 261.
- Hammond, J. L., assignor of one-half to J. W. Patton, Macon, Mo. Cylinder-roller film-steadier for moving-picture machines. (Reissue.) No. 12,985; July 6; Sp. p. 1566; Gaz. vol. 144; p. 257.
- Hammond, R. A., Sandwich, Mass. Woven fabric. No. 926,868; July 6; Sp. p. 344; Gaz. vol. 144; p. 55.
- Hammond, R. M., Dellvale, Kans. Liquid-fuel burner. No. 940,149; Nov. 16; Sp. p. 3769; Gaz. vol. 148; p. 643.
- Hammond, S., Freeport, Ill. Lamp. No. 929,423; July 27; Sp. p. 5648; Gaz. vol. 144; p. 991.
- Hammond, T. (See Heidingsfeld and Hammond.)
- Hammond, T. A., Passaic, N. J. Connector. No. 940,012; Nov. 16; Sp. p. 3439; Gaz. vol. 148; p. 594.
- Hammond Typewriter Co. (See Ruffin, J. A., assignor.)
- Hamner, C. S., *et al.* (See Quick, H. P., assignor.)
- Hampel, F. J., Erie, Pa. Rope-clamp. No. 921,241; May 11; Sp. p. 2345; Gaz. vol. 142; p. 411.
- Hampel, F., Elbe-Teinitz, Austria-Hungary. Centrifugal device. No. 928,750; July 20; Sp. p. 4249; Gaz. vol. 144; p. 740.
- Hampshire, W. P., *et al.* (See Crandall, J. A., assignor.)
- Hampson, J. J., Newark, N. J. Packing for pistons. No. 936,717; Oct. 12; Sp. p. 2351; Gaz. vol. 147; p. 390.
- Hampton, E. E., and C. G. Smith, Palisades, Colo. Pilot-light-shifting attachment for vehicles. No. 941,574; Nov. 30; Sp. p. 6887; Gaz. vol. 148; p. 1106.
- Hampton, F. H., Pullman, Ill., assignor to Jackson Cushion Edge Company, Jackson, Mich. Cushion-edge support. No. 935,844; Oct. 5; Sp. p. 516; Gaz. vol. 147; p. 75.
- Hampton, F. H., Pullman, Ill., and G. A. Franz and W. R. Smith, assignors to Jackson Cushion Edge Company, Jackson, Mich. Upholstering device. No. 916,700; Mar. 30; Sp. p. 6173; Gaz. vol. 140; p. 1106.
- Hampton, H. V. (See McIntosh and Hampton.)
- Hampton, J. B., Van Wert, Iowa. Ratchet-wrench. No. 926,653; June 29; Sp. p. 7391; Gaz. vol. 143; p. 1303.
- Hampton, W. M., and C. C. Shive, Vernon, Tex. Tank-valve. No. 920,460; May 4; Sp. p. 746; Gaz. vol. 142; p. 120.
- Hamre, O. A., Arriba, Colo. Automobile-wheel. No. 922,278; May 18; Sp. p. 4495; Gaz. vol. 142; p. 780.
- Hamrick, P. S., and S. B. Tobey, Wausau, Wis. Drinking-fountain. No. 915,855; Mar. 23; Sp. p. 4532; Gaz. vol. 140; p. 805.
- Hanau, R. L., assignor to Auto Paper Feeder Company, New York, N. Y. Sheet-feeding machine. No. 935,496; Sept. 28; Sp. p. 5052; Gaz. vol. 146; p. 892.
- Hanaway, F. M., Glen Mills, Pa. Brush. No. 931,602; Aug. 17; Sp. p. 4133; Gaz. vol. 145; p. 712.
- Hance, A., Chicago, Ill. Railway-tie. No. 925,698; June 22; Sp. p. 5439; Gaz. vol. 143; p. 952.
- Hanchett, G. T. (See Jordan and Hanchett.)
- Hanchett, O. R., assignor to Lockport Stamping Co., Lockport, N. Y. Mail-box. No. 919,718; Apr. 27; Sp. p. 5914; Gaz. vol. 141; p. 1015.
- Hanchett Swage Works. (See Hedstrom, J. P., assignor.)
- Hancock, B. L., Flat, Ill. Automatic railway-gate. No. 919,163; Apr. 20; Sp. p. 4540; Gaz. vol. 141; p. 794.
- Hancock, E. E. (See Foster, H. S., assignor.)
- Hancock, F. E., Sherman, assignor to Eureka Trolley Harp Co., Hollywood, Cal. Trolley harp and wheel. No. 925,094; June 15; Sp. p. 4267; Gaz. vol. 143; p. 727.
- Hancock, H. A., Indianapolis, Ind. Clutch throw-out. No. 919,006; Apr. 20; Sp. p. 4259; Gaz. vol. 141; p. 744.
- Hancock, H. W., Chicago, Ill. Force-feed lubricator. No. 923,832; June 8; Sp. p. 1664; Gaz. vol. 143; p. 275.
- Hancock, J. H. (See Kahoa, C. V., assignor.)
- Hancock, L. B., *et al.* (See Cosby, J. E., assignor.)
- Hancock, W., Clifton, England. Protecting metallic wires against oxidation and the like. No. 910,674; Jan. 26; Sp. p. 4599; Gaz. vol. 138; p. 836.
- Hand, C. E., Dundas, Ontario, Canada. Compasses or dividers. No. 920,461; May 4; Sp. p. 747; Gaz. vol. 142; p. 120.
- Hand, D., Newark, N. J., assignor to General Electric Company. Composition of matter for basing-cement. No. 917,057; Apr. 6; Sp. p. 194; Gaz. vol. 141; p. 36.
- Hand, J., Minneapolis, Minn. Hammock-stand. No. 944,784; Dec. 28; Sp. p. 5935; Gaz. vol. 149; p. 1024.
- Hand, J. H., assignor of one-fourth to F. I. Cornwell, Ann Arbor, Mich. Running-gear for vehicles. No. 909,086; Jan. 5; Sp. p. 1341; Gaz. vol. 138; p. 215.
- Hand, S., South Manchester, Conn. Detachable runner. No. 936,449; Oct. 12; Sp. p. 1801; Gaz. vol. 147; p. 299.
- Hand, T., Walla Walla, Wash. Nut-lock. No. 938,320; Oct. 26; Sp. p. 5701; Gaz. vol. 147; p. 971.
- Handel, J., New York, N. Y. Shaving-cup. No. 911,873; Feb. 9; Sp. p. 1655; Gaz. vol. 139; p. 307.
- Handel, P. J., Meriden, Conn. Casing for light-fixture stems. No. 909,405; Jan. 12; Sp. p. 1969; Gaz. vol. 138; p. 351.
- Handel, P. J., Meriden, Conn. Shade for light-fixtures. No. 924,457; June 8; Sp. p. 2933; Gaz. vol. 143; p. 480.
- Handlan, A. H., Jr., St. Louis, Mo. Lantern construction. No. 918,145; Apr. 13; Sp. p. 2407; Gaz. vol. 141; p. 431.
- Handlan, A. H., Jr., St. Louis, Mo. Double-valled barrel. No. 926,324; June 29; Sp. p. 6792; Gaz. vol. 143; p. 1195.
- Handlan-Buck Manufacturing Company. (See Boode, H. S., assignor.)
- Handlan-Buck Manufacturing Company. (See Prahm, A. F., assignor.)
- Handlan-Buck Manufacturing Company. (See Rolfe, G. H., assignor.)



*Alphabetical list of patentees—Continued.*

- Handley, J. W. H., and J. McCartney, Mobile, Ala. Boiler. No. 910,531; Jan. 26; Sp. p. 4299; Gaz. vol. 138; p. 789.
- Handley, W. (See Benjamin and Handley.)
- Handrahan, T. J., Boston, Mass. Thread-cutter. No. 934,439; Sept. 21; Sp. p. 2970; Gaz. vol. 146; p. 518.
- Handschin, A., Basel, Switzerland, and H. Kuny, St. Ludwig, Germany. Ribbon-loom. No. 944,610; Dec. 28; Sp. p. 5575; Gaz. vol. 149; p. 966.
- Handy, F. D. (See Welds, O. D., assignor.)
- Handy Jack Manufacturing Company. (See Allgeo, W. E., assignor.)
- Handy, L. H., and W. L. Phillips, San Francisco, Cal. Apparatus for drawing beer. No. 931,297; Aug. 17; Sp. p. 3558; Gaz. vol. 145; p. 614.
- Handy Manufacturing Company. (See Barney, C. R., assignor.)
- Handy Things Company. (See Bailey, H. L., assignor.)
- Haney, A. O., assignor to Haney Gas Engine Company, Ligonier, Ind. Causing self-ignition in explosive-engines. No. 940,872; Nov. 23; Sp. p. 5379; Gaz. vol. 148; p. 911.
- Haney Gas Engine Company. (See Haney, A. O., assignor.)
- Haney, M., Quinton, Ark. Swirl-can. No. 926,325; June 29; Sp. p. 6793; Gaz. vol. 143; p. 1195.
- Haney, N. M., Monongahela, Pa. Window-fixture. No. 913,495; Feb. 23; Sp. p. 5085; Gaz. vol. 139; p. 908.
- Haney, P. G. (See Borland and Haney.)
- Haney, P. J., and J. H. Mortimer, Versailles, Pa. Apparatus for catching and delivering mail. No. 930,175; Aug. 3; Sp. p. 1163; Gaz. vol. 145; p. 189.
- Hanford, M., and D. L. Taylor, Malden, Mass. Automobile-tire. No. 920,735; May 4; Sp. p. 1307; Gaz. vol. 142; p. 211.
- Hanft, B. P., Paterson, N. J. Game apparatus. No. 930,176; Aug. 3; Sp. p. 1166; Gaz. vol. 145; p. 189.
- Hanger, G. M., assignor to D. S. Thomas and J. A. Fry, Bridgewater, Va. Hand corn thinner and weeder. No. 933,753; Sept. 14; Sp. p. 1627; Gaz. vol. 146; p. 268.
- Hanique, J. E., Oroville, Cal. Rail-fastening device. No. 941,575; Nov. 30; Sp. p. 6888; Gaz. vol. 148; p. 1166.
- Haniquet, G., Longbeach, Cal. Ignition apparatus. No. 937,522; Oct. 19; Sp. p. 4034; Gaz. vol. 147; p. 686.
- Hankee, W. F., and F. Eha, St. Paul, Minn. Automatic sprinkler system. No. 917,292; Apr. 6; Sp. p. 690; Gaz. vol. 141; p. 117.
- Hankin, M., Brussels, Belgium. Electric resistance apparatus. No. 942,555; Dec. 7; Sp. p. 1102; Gaz. vol. 149; p. 179.
- Hankins, J. E., Delta, assignor of one-half to H. Englehart, Davenport, Iowa. Emergency-exit-door fastener. No. 936,718; Oct. 12; Sp. p. 2353; Gaz. vol. 147; p. 391.
- Hankins, J. O., Richmond, Va. Registering-gage for printing-presses. No. 924,985; June 15; Sp. p. 4057; Gaz. vol. 143; p. 691.
- Hanks Gasolene Meter Co. (See Peckham, S. H., assignor.)
- Hanks, M. W., Madison, Wis. Carburetor jacket or casing. No. 930,596; Aug. 10; Sp. p. 2007; Gaz. vol. 145; p. 352.
- Hanley, C. B., New Iberia, La. Safety train-order cabinet. No. 924,772; June 15; Sp. p. 3610; Gaz. vol. 143; p. 619.
- Hanley, J., assignor of one-half to S. A. Berkemeyer, Minneapolis, Minn. Toy push-wheel. No. 937,523; Oct. 19; Sp. p. 4038; Gaz. vol. 147; p. 686.
- Hanley, W., Bradford, Pa. Paving-block. No. 926,062; June 22; Sp. p. 6217; Gaz. vol. 143; p. 1073.
- Hanley, W., East Orange, assignor to Ferguson Bros. Mfg. Co., Hoboken, N. J. Table. No. 909,787; Jan. 12; Sp. p. 2729; Gaz. vol. 138; p. 481.
- Hanlin, S. J. (See Rigney and Hanlin.)
- Hanlon, D., Spokane, Wash. Boiler. No. 940,684; Nov. 23; Sp. p. 4972; Gaz. vol. 148; p. 849.
- Hanlon, D., Spokane, Wash. Water-heater. No. 940,685; Nov. 23; Sp. p. 4974; Gaz. vol. 148; p. 849.
- Hanlon, F. J., assignor to A. H. Andrews Company, Chicago, Ill. Furniture. No. 929,302; July 27; Sp. p. 5408; Gaz. vol. 144; p. 952.
- Hanlon & Goodman Co. (See Ver Bryck, S. A., assignor.)
- Hanlon-Thornton Company. (See Thornton, W. S., assignor.)
- Hanly, G. A., Woodstock, assignor of one-half to H. L. E. Peterson, Elgin, Ill. Funnel. No. 917,596; Apr. 6; Sp. p. 1237; Gaz. vol. 141; p. 217.
- Hanman, J. L., Hamstead, England. Rotary pump and like machine. No. 924,773; June 15; Sp. p. 3613; Gaz. vol. 143; p. 620.
- Hammer, L. C., assignor to Dimpsey-Hammer Company, Detroit, Mich. Heating-furnace. No. 924,774; June 15; Sp. p. 3614; Gaz. vol. 143; p. 620.
- Hann, S. H. (See Rider, C. B., assignor.)
- Hanna, E. E., Chicago, Ill., assignor to Hanna Engineering Works. Revolving sifting-screen. No. 928,965; July 27; Sp. p. 4677; Gaz. vol. 144; p. 839.
- Hanna, E. W., Milledgeville, Ill. Self-lubricating axle-spindle. No. 920,736; May 4; Sp. p. 1308; Gaz. vol. 142; p. 211.
- Hanna Engineering Works. (See Hanna, E. E., assignor.)
- Hanna, F. W., Defiance, Iowa. Automatic constant-discharge water-gate. No. 911,720; Feb. 9; Sp. p. 1387; Gaz. vol. 139; p. 258.
- Hanna, F. W., Defiance, Iowa, assignor of one-half to J. H. Root, Port Byron, N. Y. Self-registering water-meter. No. 938,850; Nov. 2; Sp. p. 855; Gaz. vol. 148; p. 137.
- Hanna, H. E. (See McCarrier and Hanna.)
- Hanna, J. B., Clay, Ky. Pants-presser. No. 921,107; May 11; Sp. p. 2070; Gaz. vol. 142; p. 364.
- Hanna, J. G., Austin, Tex. Automatic match-box. No. 939,252; Nov. 9; Sp. p. 1739; Gaz. vol. 148; p. 302.
- Hanna, J. T., Lonerock, Iowa. Cream-ripeners and like machine. No. 910,675; Jan. 26; Sp. p. 4600; Gaz. vol. 138; p. 837.
- Hanna, J. T., Lone Rock, Iowa. Cream-ripeners. No. 923,047; May 25; Sp. p. 6074; Gaz. vol. 142; p. 1057.
- Hanna, M. R., Schenectady, N. Y., assignor to General Electric Company. Electric locomotive. No. 929,587; July 27; Sp. p. 5936; Gaz. vol. 144; p. 1044.
- Hanna, M. R., Schenectady, N. Y., assignor to General Electric Company. Motor-starter. No. 941,412; Nov. 30; Sp. p. 6566; Gaz. vol. 148; p. 1113.
- Hanna, N. G., assignor to Kokomo Buncher Company, Kokomo, Ind. Buncher attachment for mowing-machines. No. 924,775; June 15; Sp. p. 3616; Gaz. vol. 143; p. 620.
- Hannaford, H. L., Gloucester, Mass. Hub-bearing. No. 917,058; Apr. 6; Sp. p. 195; Gaz. vol. 141; p. 36.
- Hannah, C. G., Atlanta, Ga. Fruit-grader. No. 937,797; Oct. 26; Sp. p. 4589; Gaz. vol. 147; p. 795.
- Hannan, W. S., Schenectady, N. Y. Grinding device. No. 914,718; Mar. 9; Sp. p. 2243; Gaz. vol. 140; p. 377.
- Hannan, W. S., Schenectady, N. Y. Grinding device. No. 915,430; Mar. 16; Sp. p. 3655; Gaz. vol. 140; p. 636.
- Hannemann, B. H., Lincoln Center, Kans. Gate-latch. No. 922,889; May 25; Sp. p. 5777; Gaz. vol. 142; p. 1007.
- Hannibal, J. M., St. Louis, Mo. Feed-box. No. 920,865; May 4; Sp. p. 1562; Gaz. vol. 142; p. 252.
- Hannig, E., Goldfield, Nev. Facial mask for removing and preventing wrinkles. No. 922,420; May 18; Sp. p. 4765; Gaz. vol. 142; p. 826.
- Hannold, E. J., St. Louis, Mo., assignor, by mesne assignments, to C. M. Clay. Hose-coupling. No. 936,886; Oct. 12; Sp. p. 2678; Gaz. vol. 147; p. 446.
- Hannon, E. G., New Albany, Ind. Handle for baskets. No. 913,885; Mar. 2; Sp. p. 457; Gaz. vol. 140; p. 75.
- Hannon, M. A., Boston, Mass. Corner-bead. No. 923,430; June 1; Sp. p. 718; Gaz. vol. 143; p. 106.
- Hannoversche Cakesfabrik H. Bahlens. (See Tietjens, H., assignor.)
- Hannum, E. J., assignor to Newton Machine Tool Works, Incorporated, Philadelphia, Pa. Rotary planing-machine. No. 914,948; Mar. 9; Sp. p. 2690; Gaz. vol. 140; p. 451.
- Hano, P., New York, N. Y. Manifold billing-board. No. 910,919; Jan. 26; Sp. p. 5075; Gaz. vol. 138; p. 914.
- Hanold, W. W., New York, N. Y., assignor to H. W. Johns-Manville Company. Hot-air conduit. No. 913,284; Feb. 23; Sp. p. 4662; Gaz. vol. 139; p. 836.
- Hanrahan, J. E. (See Brown, Hanrahan, and Sellar.)
- Hanrath, T. W., Chicago, Ill. Tape-measure. No. 940,873; Nov. 23; Sp. p. 5380; Gaz. vol. 148; p. 912.
- Hans, E. E., Minneapolis, Minn. Liquid-indicator. No. 943,596; Dec. 14; Sp. p. 3332; Gaz. vol. 149; p. 562.
- Hansbury, E. B., New York, N. Y. Developing-frame for photographic films. No. 917,940; Apr. 13; Sp. p. 1974; Gaz. vol. 141; p. 359.
- Hanseatische Seeverkehrs Gesellschaft M. B. H. (See Kompe, F., assignor.)
- Hansel, B. (See Jorrand, L., assignor.)
- Hansell, H. F., Jr., Philadelphia, Pa. Telephone attachment. No. 929,128; July 27; Sp. p. 5026; Gaz. vol. 144; p. 894.
- Hansen, A., assignor of one-fifth to E. Olsen, Dorchester, Mass. Curtain-fixture. No. 916,307; Mar. 23; Sp. p. 5365; Gaz. vol. 140; p. 952.
- Hansen, A. F., Hollis, Okla. Rim-compressor. No. 914,949; Mar. 9; Sp. p. 2692; Gaz. vol. 140; p. 451.
- Hansen, B., Gonzales, Cal. Combination halter and bridle. No. 917,059; Apr. 6; Sp. p. 196; Gaz. vol. 141; p. 37.
- Hansen-Bennett Company. (See Hess, H., assignor.)
- Hansen, C., Columbia, Nev. Non-refillable bottle. No. 916,701; Mar. 30; Sp. p. 6177; Gaz. vol. 140; p. 1106.
- Hansen, C., Corvallis, Oreg. Rule. No. 922,580; May 25; Sp. p. 5112; Gaz. vol. 142; p. 907.
- Hansen, C., assignor of one-half to L. N. Breeding, San Antonio, Tex. Lock for toy banks. No. 925,900; June 22; Sp. p. 5904; Gaz. vol. 143; p. 1020.
- Hansen, C. C., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Coupling for drill-steels. No. 934,069; Sept. 14; Sp. p. 2242; Gaz. vol. 146; p. 369.
- Hansen, C. J., Spokane, Wash. Bicycle-stand. No. 921,242; May 11; Sp. p. 2346; Gaz. vol. 142; p. 411.

*Alphabetical list of patentees—Continued.*

- Hansen, C. M. (See Miller and Hansen.)  
Hansen, C. P., Evan, Minn. Draft device. No. 941,920; Nov. 30; Sp. p. 7630; Gaz. vol. 148; p. 1285.  
Hansen, F., Wells, Minn. Display-rack for curtains, &c. No. 932,387; Aug. 24; Sp. p. 5811; Gaz. vol. 145; p. 993.  
Hansen, F. C., assignor to Quincy Foundry & Novelty Company, Quincy, Ill. Fluid-operated bell. No. 925,095; June 15; Sp. p. 4269; Gaz. vol. 143; p. 728.  
Hansen, H., Oakland, Cal. Solar timepiece. No. 933,556; Sept. 7; Sp. p. 1220; Gaz. vol. 146; p. 179.  
Hansen, H. C. (See Pedersen and Hansen.)  
Hansen, H. C., Newcastle, Nebr. Pole-climber. No. 912,123; Feb. 9; Sp. p. 2245; Gaz. vol. 139; p. 389.  
Hansen, H. J., Racine, Wis. Mail-bag catching and delivering apparatus. No. 943,071; Dec. 14; Sp. p. 2266; Gaz. vol. 149; p. 384.  
Hansen, H. K., assignor of one-fourth to F. Turner and one-fourth to N. R. Moore, Logan, Utah. Grain-separator. No. 924,986; June 15; Sp. p. 4060; Gaz. vol. 143; p. 691.  
Hansen, H. P., Albert Lea, Minn. Adjustable fur-stretcher. No. 912,311; Feb. 16; Sp. p. 2653; Gaz. vol. 139; p. 487.  
Hansen, H. P., Lind, Wash. Axle-lubricator and dust-excluder. No. 929,303; July 27; Sp. p. 5409; Gaz. vol. 144; p. 952.  
Hansen, I., Malden, Mass., assignor to General Electric Company. Automatic starting device for electric motors. No. 910,676; Jan. 26; Sp. p. 4602; Gaz. vol. 138; p. 837.  
Hansen, J. M., Pittsburg, Pa. Railway-car bolster. No. 909,588; Jan. 12; Sp. p. 2332; Gaz. vol. 138; p. 413.  
Hansen, J. M., Chicago, Ill. Garment-hanger and clothes-tree or the like. No. 913,955; Mar. 2; Sp. p. 624; Gaz. vol. 140; p. 99.  
Hansen, J. M., Pittsburg, Pa. Mine-car. No. 921,829; May 13; Sp. p. 3594; Gaz. vol. 142; p. 634.  
Hansen, J. M., Pittsburg, Pa. Reworking worn car-axes. No. 940,805; Nov. 23; Sp. p. 5246; Gaz. vol. 148; p. 890.  
Hansen, J. M., Pittsburg, Pa. Reworking worn car-axes. No. 940,806; Nov. 23; Sp. p. 5247; Gaz. vol. 148; p. 890.  
Hansen, J. M., assignor to Forged Steel Wheel Company, Pittsburg, Pa. Forged steel car-wheel. No. 942,381; Dec. 7; Sp. p. 725; Gaz. vol. 149; p. 119.  
Hansen, J. P., Eagle, Nebr. Measuring device. No. 934,167; Sept. 14; Sp. p. 2450; Gaz. vol. 146; p. 403.  
Hansen, J. S., Brockton, Mass., assignor to O. A. Miller Treeing Machine Company, Portland, Me. Form for boots or shoes. No. 914,409; Mar. 9; Sp. p. 1612; Gaz. vol. 140; p. 274.  
Hansen, M. (See Andersen and Hansen.)  
Hansen, M., Paris, France. Flexible photographic plate or film. No. 928,914; July 20; Sp. p. 4582; Gaz. vol. 144; p. 797.  
Hansen, N. M., Duncree, Mich., assignor to Toledo Computing Scale Company, Toledo, Ohio. Weighing-scale. No. 917,293; Apr. 6; Sp. p. 692; Gaz. vol. 141; p. 118.  
Hansen, P. (See Herkner, E., assignor.)  
Hansen, P., assignor to J. S. McDonald Company, Chicago, Ill. Leaf for books. No. 911,039; Feb. 2; Sp. p. 32; Gaz. vol. 139; p. 8.  
Hansen, P. J., Fersley, near Skibby, Denmark. Stream-motor. No. 922,890; May 25; Sp. p. 5778; Gaz. vol. 142; p. 1008.  
Hansen, P. P., Randolph, Nebr. Nail-peg. No. 919,857; Apr. 27; Sp. p. 6224; Gaz. vol. 140; p. 1062.  
Hansen, R., assignor to Interstate Supply Company, Sioux City, Iowa. Substation telephone set. No. 916,552; Mar. 30; Sp. p. 5904; Gaz. vol. 140; p. 1059.  
Hansen, R., Muskegon, Mich., assignor of one-half to Interstate Supply Company, Sioux City, Iowa. Transmitter. No. 916,950; Mar. 30; Sp. p. 6654; Gaz. vol. 140; p. 1186.  
Hansen, R. P., Knob, Cal. Compound tool. No. 918,672; Apr. 20; Sp. p. 3553; Gaz. vol. 141; p. 633.  
Hansen, T. H. C. (See Steele and Hansen.)  
Hansen, V. J., assignor to S. A. Norring, New York, N. Y. Engraving-machine. No. 912,240; Feb. 9; Sp. p. 2456; Gaz. vol. 139; p. 424.  
Hansen, W., South Brooklyn, N. Y. Machine for shaping bridle-irons or stirrup or joist hangers. No. 934,168; Sept. 14; Sp. p. 2452; Gaz. vol. 146; p. 403.  
Hansen, W. A., San Francisco, Cal. Self-starting device for gas-engines. No. 929,588; July 27; Sp. p. 5938; Gaz. vol. 144; p. 1044.  
Hansen, W. H., and A. J. Price, Chicago, Ill. Baling-machine. No. 942,257; Dec. 7; Sp. p. 491; Gaz. vol. 149; p. 76.  
Hansen, W. L., and A. Hayes, Coalville, Utah. Tipple for coal-cars. No. 926,116; June 29; Sp. p. 6342; Gaz. vol. 143; p. 1126.  
Hanserd, J. G., assignor of one-fourth to L. F. and M. E. Moore, Johnstown, Pa. Safety window-ladder. No. 934,667; Sept. 21; Sp. p. 3407; Gaz. vol. 146; p. 594.  
Hansford, J. (See Gunning and Hansford.)  
Hansford, L. P., Salem, W. Va. Nut and bolt lock. No. 937,149; Oct. 19; Sp. p. 3217; Gaz. vol. 147; p. 563.  
Hanshue, C. H., Beloit, Wis. Stovepipe-cutter. No. 936,450; Oct. 12; Sp. p. 1802; Gaz. vol. 147; p. 299.  
Hänsler, J. G., Munich, Germany. Pulley. No. 916,308; Mar. 23; Sp. p. 5367; Gaz. vol. 140; p. 952.  
Hanson, A., Alpena, Mich. Wheel. No. 916,929; Mar. 30; Sp. p. 6608; Gaz. vol. 140; p. 1178.  
Hanson, A. B., Chicago, Ill. Piano-bench. No. 940,804; Nov. 23; Sp. p. 5244; Gaz. vol. 148; p. 890.  
Hanson, A. E., Wakefield, Mich. Compressed-air door-closer. No. 933,034; Aug. 31; Sp. p. 7171; Gaz. vol. 145; p. 1230.  
Hanson, A. O., Ray, N. D. Can-opener. No. 914,829; Mar. 9; Sp. p. 2471; Gaz. vol. 140; p. 413.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Friction-clutch. No. 909,891; Jan. 19; Sp. p. 2938; Gaz. vol. 138; p. 547.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Device for mechanically regulating feed mechanism. No. 909,892; Jan. 19; Sp. p. 2940; Gaz. vol. 138; p. 547.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Bearing-guard. No. 909,893; Jan. 19; Sp. p. 2942; Gaz. vol. 138; p. 547.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Clutch-actuating mechanism. No. 909,894; Jan. 19; Sp. p. 2944; Gaz. vol. 138; p. 548.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Grinding-machine. No. 909,895; Jan. 19; Sp. p. 2946; Gaz. vol. 138; p. 548.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Fluid-pressure indexing mechanism. No. 912,124; Feb. 9; Sp. p. 2246; Gaz. vol. 139; p. 389.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Feed and alarm mechanism for metal-working machines. No. 915,173; Mar. 16; Sp. p. 3143; Gaz. vol. 140; p. 552.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Grinding-machine. No. 915,174; Mar. 16; Sp. p. 3147; Gaz. vol. 140; p. 552.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Steady-rest. No. 915,175; Mar. 16; Sp. p. 3151; Gaz. vol. 140; p. 552.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Electrically-controlled feed-mechanism. No. 915,671; Mar. 16; Sp. p. 4172; Gaz. vol. 140; p. 719.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Tail-stock for metal-working machines. No. 921,982; May 18; Sp. p. 3899; Gaz. vol. 142; p. 682.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Indexing mechanism. No. 921,983; May 18; Sp. p. 3901; Gaz. vol. 142; p. 682.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Turret-lathe. No. 921,984; May 18; Sp. p. 3904; Gaz. vol. 142; p. 683.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Mechanism for shifting the cross-slides of lathes. No. 921,985; May 18; Sp. p. 3907; Gaz. vol. 142; p. 683.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Metal-reducing machine. No. 921,986; May 18; Sp. p. 3909; Gaz. vol. 142; p. 683.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Holder for turning and shaping tools. No. 927,527; July 13; Sp. p. 1697; Gaz. vol. 144; p. 303.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Stop for carriages of metal-working machines. No. 938,483; Nov. 2; Sp. p. 69; Gaz. vol. 148; p. 13.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Taper-roughing tool. No. 938,484; Nov. 2; Sp. p. 71; Gaz. vol. 148; p. 13.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Clutch-actuating mechanism. No. 939,192; Nov. 2; Sp. p. 1588; Gaz. vol. 148; p. 257.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Metal-working machine. No. 940,928; Nov. 23; Sp. p. 5485; Gaz. vol. 148; p. 930.  
Hanson, B. M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Feeding mechanism. No. 940,929; Nov. 23; Sp. p. 5487; Gaz. vol. 148; p. 930.  
Hanson, F. O., Indianapolis, Ind. Door-hanger. No. 925,176; June 15; Sp. p. 4426; Gaz. vol. 143; p. 755.  
Hanson, H. C., Albert Lea, Minn. Safety device for pressure-tanks. No. 925,699; June 22; Sp. p. 5441; Gaz. vol. 143; p. 952.  
Hanson, J., Auburn, Mass. Automatic pumping system. No. 940,312; Nov. 16; Sp. p. 4145; Gaz. vol. 148; p. 699.  
Hanson, J. A., Detroit, Mich. Trolley-base. No. 914,719; Mar. 9; Sp. p. 2244; Gaz. vol. 140; p. 377.  
Hanson, J. M. and M. S., San Jose, Cal. Shoe. No. 910,677; Jan. 26; Sp. p. 4604; Gaz. vol. 138; p. 838.



*Alphabetical list of patentees—Continued.*

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Hanson, L. S., Chippewa Falls, Wis. Watchcase-hinge. No. 918,043; Apr. 13; Sp. p. 2203; Gaz. vol. 141; p. 396.  
Hanson, M. M., Elliott, Ill. Washing-machine. No. 941,989; Nov. 30; Sp. p. 7758; Gaz. vol. 143; p. 1307.  
Hanson, M. S. (See Hanson, J. M. and M. S.)  
Hanson, O. F. (See Hartman, H. M., assignor.)  
Hanson & Van Winkle Co. (See King, W. R., assignor.)  
Hanson & Van Winkle Company. (See Daniels, J. T., assignor.)  
Hanson & Van Winkle Company. (See Van Winkle, A., assignor.)  
Hanson, W. E., et al. (See Pritschau, F. A., assignor.)  
Hanson, W. H., Fort Madison, Iowa. Glass-cutting machine. No. 910,129; Jan. 19; Sp. p. 3416; Gaz. vol. 138; p. 626.  
Hanten, I. J. B. (See Pope and Hanten.)  
Hanthorn, C. B., Portland, Oreg. Lacquering-machine for cans. No. 919,858; Apr. 27; Sp. p. 6225; Gaz. vol. 141; p. 1062.  
Hanzlik, H. J., and R. E. Hellmer, Lynn, Mass., assignors to General Electric Company. Elastic-fluid turbine. No. 922,581; May 25; Sp. p. 5113; Gaz. vol. 142; p. 907.  
Happel, J. (See Druzbach, T., assignor.)  
Haraden, W., Lanesville, Mass. Hat-fastener. No. 921,830; May 18; Sp. p. 3596; Gaz. vol. 142; p. 634.  
Harbaugh, H. E., Kenosha, Wis. Lamp and lantern. No. 923,970; June 8; Sp. p. 1917; Gaz. vol. 143; p. 320.  
Harbaugh, H. E., assignor to Badger Brass Mfg. Co., Kenosha, Wis. Spring-catch for lamps, &c. No. 926,560; June 29; Sp. p. 7198; Gaz. vol. 143; p. 1273.  
Harbeck, J. R., assignor to Kemiweld Can Company, Detroit, Mich. Metal sheet prepared for punching. No. 909,589; Jan. 12; Sp. p. 2333; Gaz. vol. 138; p. 414.  
Harbeck, J. R., assignor to Kemiweld Can Company, Detroit, Mich. Securing together surfaces of fibrous material. No. 909,590; Jan. 12; Sp. p. 2335; Gaz. vol. 138; p. 414.  
Harbeck, J. R., assignor to Kemiweld Can Company, Detroit, Mich. Tube-drying apparatus. No. 913,285; Feb. 23; Sp. p. 4663; Gaz. vol. 139; p. 836.  
Harbeck, J. R., assignor to Kemiweld Can Company, Detroit, Mich. Phonograph-record box. No. 915,764; Mar. 23; Sp. p. 4371; Gaz. vol. 140; p. 776.  
Harber, T., assignor of one-half to R. I. Gray, Gray, Ky. Hose-clamp. No. 912,955; Feb. 16; Sp. p. 3981; Gaz. vol. 139; p. 701.  
Harbers, F., Peoria, Ill. Planing and sandpapering machine. No. 932,466; Aug. 31; Sp. p. 5998; Gaz. vol. 145; p. 1042.  
Harbert, W. L., Lumberport, Va. Drill. No. 910,920; Jan. 26; Sp. p. 5076; Gaz. vol. 138; p. 918.  
Harbin, C., assignor of one-half to J. A. Culbertson, Monroe City, Ind. Attachment for ice-cream cans. No. 919,348; Apr. 27; Sp. p. 5123; Gaz. vol. 141; p. 889.  
Harbison Walker Refractories Company. (See Walker and Croft, assignors.)  
Harbolshheimer, J., Philadelphia, Pa. Match-safe. No. 911,495; Feb. 2; Sp. p. 886; Gaz. vol. 139; p. 156.  
Harbour, W. F., and G. A. Kellogg, Atlanta, Ga. Overalls. No. 925,177; June 15; Sp. p. 4428; Gaz. vol. 143; p. 756.  
Harcarik, J. T., Wilkes-Barre, Pa. Sprag remover and retainer. No. 943,538; Dec. 14; Sp. p. 3228; Gaz. vol. 149; p. 543.  
Harcourt, C. G., Brooklyn, N. Y. Valve. No. 928,751; July 20; Sp. p. 4251; Gaz. vol. 144; p. 740.  
Harcourt, J. (See Warehock, J., assignor.)  
Hardage, W. O., Atlanta, Ga. Switch-stand. No. 928,124; July 13; Sp. p. 2928; Gaz. vol. 144; p. 500.  
Hardcastle, J. H. (See Bayliss, Hodgkinson, Hardcastle, Coote, and Payne.)  
Härdén, J., Schenectady, N. Y., assignor to General Electric Company. Arc-lamp. No. 929,643; July 27; Sp. p. 6080; Gaz. vol. 144; p. 1063.  
Härdén, P., Centralpalatset, Stockholm, Sweden. Apparatus for unwatering concentrates. No. 910,376; Jan. 19; Sp. p. 3973; Gaz. vol. 138; p. 714.  
Harden, W. I. F., Washington, D. C. Rail-clamp. No. 934,725; Sept. 21; Sp. p. 3523; Gaz. vol. 146; p. 613.  
Hardenburg, H. R., Tulsa, and F. Sager, Tecumseh, Okla. Power-jack. No. 927,407; July 6; Sp. p. 1412; Gaz. vol. 144; p. 234.  
Harder, C. C., Hamburg-Hamm, assignor to B. Bomborn, Berlin, Germany. Centrifugal pump or blower. No. 929,129; July 27; Sp. p. 5028; Gaz. vol. 144; p. 894.  
Harders, H. M. A., assignor of one-half to G. C. Becherer, Milwaukee, Wis. Pasteurizing apparatus. No. 915,765; Mar. 23; Sp. p. 4372; Gaz. vol. 140; p. 777.  
Hardesty, R., Denver, Colo. Percolator. No. 928,966; July 27; Sp. p. 4679; Gaz. vol. 144; p. 840.  
Hardick, W., Cadillac, Mich. Turnbuckle. No. 925,901; June 22; Sp. p. 5906; Gaz. vol. 143; p. 1020.  
Hardin, C. H., Shelby, N. C. Clothes-line. No. 930,856; Aug. 10; Sp. p. 2533; Gaz. vol. 145; p. 437.  
Hardin, D. L., Hoyt, Kans. Camping-wagon. No. 941,195; Nov. 23; Sp. p. 6078; Gaz. vol. 148; p. 1020.  
Hardin, G., Uniopolis, Ohio. Nut-lock. No. 910,678; Jan. 26; Sp. p. 4605; Gaz. vol. 138; p. 838.  
Hardin, J. D., and J. B. de Saussure, Chattanooga, Tenn. Illuminating device for keyholes. No. 941,576; Nov. 30; Sp. p. 6889; Gaz. vol. 148; p. 1166.  
Harding, C. S., and C. J. Spilman, assignors to American Hoisting Machine Company, Sidney, Ohio. Scene and curtain trimming and hoisting apparatus. No. 924,349; June 8; Sp. p. 2733; Gaz. vol. 143; p. 445.  
Harding, D. J., assignor of one-half to V. Camors, New Orleans, La. Shipping-crate. No. 926,941; July 6; Sp. p. 487; Gaz. vol. 144; p. 79.  
Harding, F. C., assignor of two-thirds to N. G. Lawson, Denver, Colo. Beet-harvester. No. 937,994; Oct. 26; Sp. p. 4991; Gaz. vol. 147; p. 861.  
Harding, F. I., Cleveland, Ohio. Valve-grinder. No. 930,472; Aug. 10; Sp. p. 1708; Gaz. vol. 145; p. 309.  
Harding, G., Coeur d'Alene, Idaho. Hydrostatic indicator. No. 926,251; June 29; Sp. p. 6640; Gaz. vol. 143; p. 1192.  
Harding, H. G. (See King, Harding, and Barnhart.)  
Harding, H. W., New York, N. Y. Protective device for rubber tires. No. 914,141; Mar. 2; Sp. p. 1040; Gaz. vol. 140; p. 164.  
Harding, O. M., Winona, Miss. Combined rack and holder. No. 911,976; Feb. 9; Sp. p. 1948; Gaz. vol. 139; p. 342.  
Harding, P., et al. (See Eynon, W. D., assignor.)  
Harding, R. J., Poughkeepsie, N. Y. Split T-valve. No. 929,589; July 27; Sp. p. 5940; Gaz. vol. 144; p. 1044.  
Harding, W. H., Philadelphia, Pa. Burner for cement-kilns, &c. No. 926,561; June 29; Sp. p. 7200; Gaz. vol. 143; p. 1273.  
Harding, W. H., Philadelphia, and C. M. Saeger, Allentown, Pa. Fuel-feeder. No. 940,313; Nov. 16; Sp. p. 4148; Gaz. vol. 148; p. 700.  
Harding, W. L. (See Phelps and Harding.)  
Hardinge Conical Mill Company. (See Hardinge, H. W., assignor.)  
Hardinge, F., Chicago, Ill. Lathe structure. No. 908,664; Jan. 5; Sp. p. 505; Gaz. vol. 138; p. 79.  
Hardinge, F., Chicago, Ill. Receptacle for keys for watchmen's clocks. No. 912,312; Feb. 16; Sp. p. 2654; Gaz. vol. 139; p. 487.  
Hardinge, F., Chicago, Ill. Controlling mechanism for lathe structures or the like. No. 928,045; July 13; Sp. p. 2795; Gaz. vol. 144; p. 476.  
Hardinge, F., Chicago, Ill. Receptacle. No. 943,825; Dec. 21; Sp. p. 3853; Gaz. vol. 149; p. 670.  
Hardinge, H. A., Los Gatos, and E. A. Pagel, Campbell, Cal. Means for overcoming frost. No. 937,952; Oct. 26; Sp. p. 4902; Gaz. vol. 147; p. 847.  
Hardinge, H. H., assignor to Wiebking, Hardinge & Co., Chicago, Ill. Type-casting machine. No. 926,740; July 6; Sp. p. 66; Gaz. vol. 144; p. 10.  
Hardinge, H. W., New York, N. Y. Apparatus for disintegrating ores and other materials. No. 908,861; Jan. 5; Sp. p. 886; Gaz. vol. 138; p. 141.  
Hardinge, H. W., New York, N. Y. Tube-mill. No. 909,292; Jan. 12; Sp. p. 1755; Gaz. vol. 138; p. 316.  
Hardinge, H. W., New York, N. Y., assignor to Hardinge Conical Mill Company. Ore-crushing apparatus. No. 928,967; July 27; Sp. p. 4681; Gaz. vol. 144; p. 840.  
Hardison, E. A., Kern, R. W. Gunn and W. A. S. Thompson, Los Angeles, Cal. Deep-well pump. No. 927,236; July 6; Sp. p. 1109; Gaz. vol. 144; p. 180.  
Hardman, G. H., New Bedford, assignor of one-half to W. L. Parker, Lowell, Mass. Coating device. No. 940,593; Nov. 16; Sp. p. 4763; Gaz. vol. 148; p. 794.  
Hardman, H. V., assignor to Rubber-Bound Brush Company, Belleville, N. J. Brush. No. 925,178; June 15; Sp. p. 4429; Gaz. vol. 143; p. 756.  
Hardman, Peck & Company. (See Hattemer and Kuhle, assignors.)  
Hards, E., assignor of one-third to L. D. Coggins, Phoenix, Ariz. Ter. Windmill. No. 924,060; June 8; Sp. p. 2084; Gaz. vol. 143; p. 347.  
Hardsoeg, M., Ottumwa, Iowa. Drill. No. 923,513; June 1; Sp. p. 891; Gaz. vol. 143; p. 136.  
Hardsoeg, M., Ottumwa, Iowa. Drill. No. 923,514; June 1; Sp. p. 894; Gaz. vol. 143; p. 136.  
Hardsoeg, M., Ottumwa, Iowa. Feed for pneumatic tools. No. 942,066; Dec. 7; Sp. p. 51; Gaz. vol. 149; p. 11.  
Hardsoeg Wonder Drill Co. (See Smith, C. J., assignor.)  
Hardwick, J. E. (See Hardwick, W., assignor.)  
Hardwick, W., York, assignor of one-half to J. E. Hardwick, Perth, Western Australia, Australia. Metal-framed horse-collar. No. 942,824; Dec. 7; Sp. p. 1627; Gaz. vol. 149; p. 267.  
Hardwick, W. A., assignor of one-half to R. L. Graves, Memphis, Tenn. Cut-off for barrel-filling machines. No. 923,833; June 8; Sp. p. 1666; Gaz. vol. 143; p. 276.

*Alphabetical list of patentees—Continued.*

- Hardy, F., assignor to R. E. Haynes, trustee, Columbia, Tenn. Magazine-lock for take-down repeating shotguns and rifles. No. 937,934; Oct. 26; Sp. p. 4871; Gaz. vol. 147; p. 841.
- Hardy, F., assignor to R. E. Haynes, trustee, Columbia, Tenn. Device for emptying the magazines of repeating shotguns. No. 938,851; Nov. 2; Sp. p. 856; Gaz. vol. 148; p. 138.
- Hardy, G. T., Philadelphia, Pa. Ironing-cabinet. No. 934,807; Sept. 21; Sp. p. 3685; Gaz. vol. 146; p. 640.
- Hardy, H. M., Unley, South Australia, Australia. Sash-cord fastener. No. 923,168; June 1; Sp. p. 103; Gaz. vol. 143; p. 17.
- Hardy, S., St. Louis, Mo. Cloth-cutting machine. No. 925,096; June 15; Sp. p. 4271; Gaz. vol. 143; p. 728.
- Hardy, S. W., Long Eaton, England. Spring-dropper jacquard for Levers-lace machines. No. 934,910; Sept. 21; Sp. p. 3880; Gaz. vol. 146; p. 674.
- Hardy, T., assignor to Eureka Digger Co., Chicago, Ill. Post-hole digger. No. 931,061; Aug. 17; Sp. p. 3034; Gaz. vol. 145; p. 532.
- Hardy, T., Jr., and A. Droll, Troy, Ill. Car-axle lubricator. No. 938,852; Nov. 2; Sp. p. 857; Gaz. vol. 148; p. 138.
- Hardy, T. B., *et al.* (See Noland, W. H., assignor.)
- Hardy, T. W., Sutter, Ill. Horse-collar fastener. No. 923,515; June 1; Sp. p. 896; Gaz. vol. 143; p. 137.
- Hardy, W. W., Clinton, Miss. Apparatus for applying stay-wires to fences. No. 920,737; May 4; Sp. p. 1309; Gaz. vol. 142; p. 211.
- Hare, C. A., *et al.* (See McDonald, F. B., assignor.)
- Hare, J. M., Belle Vernon, assignor one-half to F. C. Speers, Speers, Pa. Gas-burner. No. 917,728; Apr. 6; Sp. p. 1492; Gaz. vol. 141; p. 261.
- Hart, A., New York, N. Y. Combined soldering-iron, torch, and portable light. No. 912,673; Feb. 16; Sp. p. 3400; Gaz. vol. 139; p. 610.
- Hargie, H. A. (See Ricker, R. C., assignor.)
- Hargie, T., assignor, by mesne assignments, to E. Cook, Kalamazoo, Mich. Drilling-machine. No. 927,523; July 13; Sp. p. 1699; Gaz. vol. 144; p. 303.
- Hargrave, T. A., Galveston, Tex. Drying and stretching frame. No. 919,007; Apr. 20; Sp. p. 4261; Gaz. vol. 141; p. 745.
- Hargraves, A. W., Boston, Mass., assignor to L. F. Arnold, Providence, R. I. Machine for setting lacing-hooks and the like. No. 934,402; Sept. 14; Sp. p. 2886; Gaz. vol. 146; p. 482.
- Hargraves, W. H., Allentown, Pa. Button-machine. No. 912,674; Feb. 16; Sp. p. 3401; Gaz. vol. 139; p. 610.
- Hargreaves, J., Killingly, Conn., assignor of one-half to J. E. Cochrane, Dedham, Mass. Float-filling salvage-holder. No. 915,027; Mar. 9; Sp. p. 2816; Gaz. vol. 140; p. 477.
- Hargreaves, J. F. (See Krein and Hargreaves.)
- Hargrove, W., assignor of one-half to P. A. Elliott, Montreal, Quebec, Canada. Foot-power motor. No. 942,556; Dec. 7; Sp. p. 1104; Gaz. vol. 149; p. 179.
- Hari, P., Cissna Park, Ill. Harrow. No. 928,046; July 13; Sp. p. 2800; Gaz. vol. 144; p. 477.
- Haring, J. C., Jersey City, N. J., assignor to E. Todd & Co., New York, N. Y. Polypoint pencil. No. 940,247; Nov. 16; Sp. p. 3981; Gaz. vol. 148; p. 677.
- Haring, W. M., Nyack, N. Y. Tie and rail-fastener. No. 922,421; May 18; Sp. p. 4766; Gaz. vol. 142; p. 826.
- Harker, A. E., Windsor, N. J. Envelop. No. 922,891; May 25; Sp. p. 5779; Gaz. vol. 142; p. 1008.
- Harker, G., Petersham, near Sydney, New South Wales, Australia. Apparatus for extinguishing fire and for destroying vermin. No. 915,431; Mar. 16; Sp. p. 3657; Gaz. vol. 140; p. 636.
- Harkey, W. T., Harpersville, Miss. Fertilizer-distributor. No. 930,597; Aug. 10; Sp. p. 2009; Gaz. vol. 145; p. 352.
- Harkins, H., Seattle, Wash. Piston-ring. No. 920,950; May 11; Sp. p. 1757; Gaz. vol. 142; p. 312.
- Harkness, L. T., Jamestown, N. Y. Tool-holder. No. 937,241; Oct. 19; Sp. p. 3422; Gaz. vol. 147; p. 592.
- Harkness, L. T., Jamestown, assignor, by mesne assignments, to Empire Voting Machine Company, Rochester and Jamestown, N. Y. Voting-machine lock-out. No. 943,017; Dec. 14; Sp. p. 2131; Gaz. vol. 149; p. 365.
- Harlan, C. C., Beaver Falls, Pa. Sash-fastener. No. 927,967; July 13; Sp. p. 2642; Gaz. vol. 144; p. 449.
- Harland, A. P., Tupelo, Miss. Attachment for printing-presses. No. 914,269; Mar. 2; Sp. p. 1312; Gaz. vol. 140; p. 203.
- Harland, A. P., Tupelo, Miss. Multicolor-printing press. No. 934,911; Sept. 21; Sp. p. 3881; Gaz. vol. 146; p. 674.
- Harlé, J., Rouen, France. Fuse with double action. No. 927,968; July 13; Sp. p. 2643; Gaz. vol. 144; p. 450.
- Harlé, J., Rouen, France. Double-acting fuse. No. 932,701; Aug. 31; Sp. p. 6512; Gaz. vol. 145; p. 1122.
- Harleman, P. J., Boston, Mass. Mechanical stoker. No. 944,551; Dec. 28; Sp. p. 5437; Gaz. vol. 149; p. 943.
- Harley, B. G., Pittsburg, Pa., assignor to W. S. C. Stevens, Woodland, Cal. Explosion-engine. No. 928,968; July 27; Sp. p. 4683; Gaz. vol. 144; p. 840.
- Harling, F., Shenandoah, Iowa. Punch. No. 938,580; Nov. 2; Sp. p. 321; Gaz. vol. 148; p. 47.
- Harling, W., Tanner, Wash. Mechanical amusement apparatus. No. 943,539; Dec. 14; Sp. p. 3230; Gaz. vol. 149; p. 544.
- Harliee, E. C., Raleigh, N. C. Convertible car. No. 913,956; Mar. 2; Sp. p. 625; Gaz. vol. 140; p. 99.
- Harliee, E. C., Raleigh, N. C. Convertible car. No. 914,270; Mar. 2; Sp. p. 1315; Gaz. vol. 140; p. 203.
- Harlow, W. C., Brooklyn, N. Y. Built-up article. No. 939,833; Nov. 9; Sp. p. 3046; Gaz. vol. 148; p. 503.
- Harman, D. L. (See Horner, J. E., assignor.)
- Harman, J., Brainerd, assignor of one-third to C. Coleman, Crow Wing county, and one-third to J. H. Koop, Brainerd, Minn. Motor-engine. No. 934,968; Sept. 21; Sp. p. 4005; Gaz. vol. 146; p. 696.
- Harmer, E., Ottawa, Ontario, Canada, assignor to Pneumatic Machinery Cleaner Company. Pneumatic machinery-cleaner. No. 931,757; Aug. 24; Sp. p. 4520; Gaz. vol. 145; p. 786.
- Harmer, E. L., assignor of one-half to S. Johnson, Brainerd, Minn. Hitching device. No. 931,419; Aug. 17; Sp. p. 3800; Gaz. vol. 145; p. 656.
- Harmer, H., Newark, N. J. Violin-key. No. 941,196; Nov. 23; Sp. p. 6080; Gaz. vol. 148; p. 1020.
- Harnet, H., St.-Etienne, France. Press for the manufacture of hollow ingots. No. 921,243; May 11; Sp. p. 2347; Gaz. vol. 142; p. 411.
- Harmon, D. B., Sutherland, Iowa. Mail-delivering apparatus. No. 914,658; Mar. 9; Sp. p. 2092; Gaz. vol. 140; p. 356.
- Harmon, F. S., Northville, Mich. Combined regulator and radiator for furnaces. No. 927,792; July 13; Sp. p. 2266; Gaz. vol. 144; p. 391.
- Harmon, J. D. (See Luethy, F. C., assignor.)
- Harmon, W. (See Lindsay, T. J., assignor.)
- Harmon, W., *et al.* (See Neal, H. W., assignor.)
- Harmuth, A. (See Eschellmann and Harmuth.)
- Harn, A. S., Bloomington, Ind. Loose-leaf-book binder. No. 911,977; Feb. 9; Sp. p. 1949; Gaz. vol. 139; p. 342.
- Harn, I. B., Hoopeston, Ill. Spoon. No. 944,091; Dec. 21; Sp. p. 4420; Gaz. vol. 149; p. 762.
- Harnden, F., Palmyra, and A. A. Coburn, Cold Spring, Wis. Feeder and band-cutter for grain. No. 913,696; Mar. 2; Sp. p. 32; Gaz. vol. 140; p. 8.
- Harner, D. H. (See Mathers, E. A., assignor.)
- Harnett, J. T., Philadelphia, Pa. Antifreezing faucet or street-washer. No. 928,047; July 13; Sp. p. 2802; Gaz. vol. 144; p. 477.
- Harp, T. S., Rifle, Colo. Gate. No. 934,070; Sept. 14; Sp. p. 2243; Gaz. vol. 146; p. 365.
- Harper, C. L., Philadelphia, Pa. Trousers hanger and press. No. 944,134; Dec. 21; Sp. p. 4521; Gaz. vol. 149; p. 776.
- Harper, E. L., Melvern, Kans. Gate. No. 934,523; Sept. 21; Sp. p. 3121; Gaz. vol. 146; p. 544.
- Harper, E. L., Jr., Big Stone Gap, Va. Apparatus for feeding flour iron ore to blast-furnaces. No. 914,830; Mar. 9; Sp. p. 2472; Gaz. vol. 140; p. 413.
- Harper, G. A., assignor of one-half to T. M. Hall, Shreveport, La. Dental tooth-clamp. No. 939,834; Nov. 9; Sp. p. 3048; Gaz. vol. 148; p. 503.
- Harper, G. C., *et al.* (See Anderson, A., assignor.)
- Harper, H. N., Monroe, La. Cultivator and cotton-chopper. No. 915,432; Mar. 16; Sp. p. 3658; Gaz. vol. 140; p. 637.
- Harper, J. A. (See Cable, D. J., assignor.)
- Harper, J. J., Quinine, N. C. Horse-releaser. No. 921,987; May 18; Sp. p. 3912; Gaz. vol. 142; p. 684.
- Harper, J. L., and W. J. Larkworthy, Niagara Falls, N. Y.; said Larkworthy assignor to said Harper. Electric kiln. No. 925,902; June 22; Sp. p. 5908; Gaz. vol. 143; p. 1021.
- Harper, J. M., assignor to Harper Supply Company, Chicago, Ill. Sad-iron heater. No. 935,106; Sept. 28; Sp. p. 4306; Gaz. vol. 146; p. 768.
- Harper, J. W., Cleveland, Ohio. Poultry-feeder. No. 914,720; Mar. 9; Sp. p. 2246; Gaz. vol. 140; p. 377.
- Harper Supply Company. (See Harper, J. M., assignor.)
- Harper, T. J., deceased, Atlanta, Ga.; G. T. Osborn executor. Fireplace. No. 922,422; May 18; Sp. p. 4768; Gaz. vol. 142; p. 827.
- Harper, W. (See O'Bryant, B. F., assignor.)
- Harper, W. A., *et al.* (See Bailey, D. M., assignor.)
- Harpham, E., Akron, Ohio. Drain or similar pipe. No. 929,941; Aug. 3; Sp. p. 679; Gaz. vol. 145; p. 108.
- Harpham, E., Akron, Ohio. Drain or similar pipe. No. 929,942; Aug. 3; Sp. p. 681; Gaz. vol. 145; p. 108.
- Harpham, G. E. (See Kelly, R. W., assignor.)
- Harpham, G. E. (See Kittle and Harpham.)
- Harpham, G. E. (See Morton, F. B., assignor.)
- Harpstrite, A. W., Moweaqua, Ill. Motor-vehicle. No. 927,463; July 6; Sp. p. 1551; Gaz. vol. 144; p. 255.
- Harr, D. D., Minneapolis, Minn. Heating-drum. No. 930,663; Aug. 10; Sp. p. 2140; Gaz. vol. 145; p. 373.
- Harrell, A. A. (See Whitten and Harrell.)
- Harrell, B. J., Eastman, Ga. Washing-machine. No. 924,776; June 15; Sp. p. 3620; Gaz. vol. 143; p. 621.



*Alphabetical list of patentees—Continued.*

- Harrell, C., Whigham, Ga. Rope-slide. No. 935,151; Sept. 28; Sp. p. 4382; Gaz. vol. 146; p. 782.
- Harrell, C. C. (See Hufft, J. L., assignor.)
- Harrell, C. E., Montgomery City, Mo. Mail catching and delivering apparatus. No. 918,673; Apr. 20; Sp. p. 3555; Gaz. vol. 141; p. 633.
- Harrelson, H. E. (See Tupes and Harrelson.)
- Harries, A., New Rochelle, N. Y. Feed-bag. No. 918,538; Apr. 20; Sp. p. 3218; Gaz. vol. 141; p. 588.
- Harrigan, J., Brooklyn, N. Y. Manure-receiving attachment. No. 909,998; Jan. 19; Sp. p. 3159; Gaz. vol. 138; p. 584.
- Harrigan, P. J., McKeesport, Pa. Journal-box. No. 936,126; Oct. 5; Sp. p. 1110; Gaz. vol. 147; p. 168.
- Harriman, E. H. (See Dailey, E. B., assignor.)
- Harriman, E. H. (See McKeen, W. R., Jr., assignor.)
- Harriman, J., *et al.* (See Bobbitt, H. P., assignor.)
- Harriman, J. A., *et al.* (See Bobbitt, H. P., assignor.)
- Harriman, J. E., Jr. (See Hendrickson, J. F., assignor.)
- Harriman, J. E., Jr., Brookline, Mass. Flat-iron. No. 921,541; May 11; Sp. p. 2968; Gaz. vol. 142; p. 510.
- Harrington, A. W., New York, N. Y. Machine for treating paper. No. 915,672; Mar. 16; Sp. p. 4177; Gaz. vol. 140; p. 720.
- Harrington, C. G. (See Frame and Harrington.)
- Harrington, C. G., Maplewood, assignor to American Car & Foundry Company, St. Louis, Mo. Tandem-spring draft-rigging. No. 918,851; Apr. 20; Sp. p. 3934; Gaz. vol. 141; p. 693.
- Harrington, C. M., assignor of one-half to W. H. James, Summit Grove, Ind. Rat-trap. No. 910,532; Jan. 26; Sp. p. 4301; Gaz. vol. 138; p. 790.
- Harrington, D. A., Newton Center, Mass. Combination manhole frame and cover. No. 922,892; May 25; Sp. p. 5781; Gaz. vol. 142; p. 1008.
- Harrington, F., assignor to Smyth Manufacturing Company, Hartford, Conn. Fabric-supplying device for book-sewing and similar machines. No. 933,439; Sept. 7; Sp. p. 892; Gaz. vol. 146; p. 139.
- Harrington, F. B., *et al.* (See Williams, H. C., assignor.)
- Harrington, F. G., Hollins, Ala. Log-turner. No. 943,875; Dec. 21; Sp. p. 3955; Gaz. vol. 149; p. 687.
- Harrington, H. A. (See Roth and Harrington.)
- Harrington Hitch Company. (See Scott, H. C., assignor.) (Reissue.)
- Harrington, J. (See Poppenhusen and Harrington.)
- Harrington, J. L. (See Waddell and Harrington.)
- Harrington, N. J., assignor to Haas, Baruch and Company, Los Angeles, Cal. Non-refillable canister. No. 925,633; June 22; Sp. p. 5306; Gaz. vol. 143; p. 933.
- Harrington, N. T., Lansing, Mich. Check-valve. No. 917,294; Apr. 6; Sp. p. 695; Gaz. vol. 141; p. 118.
- Harrington, N. T., Lansing, Mich. Valve-gear and governing mechanism for explosion-engines. No. 917,941; Apr. 13; Sp. p. 1976; Gaz. vol. 141; p. 359.
- Harrington, N. T., Lansing, Mich. Carbureter. No. 927,529; July 13; Sp. p. 1700; Gaz. vol. 144; p. 303.
- Harrington, R. S., Corvallis, Oreg. Clothes-pounder. No. 919,164; Apr. 20; Sp. p. 4541; Gaz. vol. 141; p. 794.
- Harrington, S. H., New York, assignor to W. C. Wilson, Nyack, N. Y. Semaphore-signal. No. 911,588; Feb. 9; Sp. p. 1099; Gaz. vol. 139; p. 214.
- Harrington, S. H., New York, assignor to W. C. Wilson, Nyack, N. Y. Automatic block-signal system. No. 918,539; Apr. 20; Sp. p. 3219; Gaz. vol. 141; p. 588.
- Harrington, S. H., New York, assignor to W. C. Wilson, Nyack, N. Y. Railway signaling device. No. 918,540; Apr. 20; Sp. p. 3224; Gaz. vol. 141; p. 588.
- Harrington, S. H., New York, assignor to W. C. Wilson, Nyack, N. Y. Signal-light for railway signaling, &c. No. 918,541; Apr. 20; Sp. p. 3228; Gaz. vol. 141; p. 589.
- Harrington, S. H., New York, assignor to W. C. Wilson, Nyack, N. Y. Semaphore-signal. No. 924,987; June 15; Sp. p. 4062; Gaz. vol. 143; p. 691.
- Harrington, S. H., New York, assignor to W. C. Wilson, Nyack, N. Y. Railway safety device. No. 927,041; July 6; Sp. p. 717; Gaz. vol. 144; p. 113.
- Harrington, T. A., and A. Barrie, Natick, R. I. Spinning-machine. No. 910,377; Jan. 19; Sp. p. 3974; Gaz. vol. 138; p. 714.
- Harris, A. E. (See Harris, F. G. and A. E.)
- Harris, A. F. (See Douglass, Jones, and Harris.)
- Harris, A. F., Warren, assignor to Harris Automatic Press Company, Niles, Ohio. Printing-press. No. 935,907; Oct. 5; Sp. p. 657; Gaz. vol. 147; p. 95.
- Harris, A. F., and W. H. Smith, assignors to Harris Automatic Press Company, Niles, Ohio. Collator. No. 925,097; June 15; Sp. p. 4274; Gaz. vol. 143; p. 728.
- Harris, A. H., Denver, Colo. Coupling. No. 935,624; Sept. 28; Sp. p. 5342; Gaz. vol. 146; p. 937.
- Harris Air Pump Company. (See Miller, F. S., assignor.)
- Harris Automatic Press Company. (See Deane, W. C., assignor.)
- Harris Automatic Press Company. (See Harris, A. F., assignor.)
- Harris Automatic Press Company. (See Harris and Smith, assignors.)
- Harris Automatic Press Company. (See Smith, W. H., assignor.)
- Harris, B. (See Woodbury, Harris, and Benedict.)
- Harris, B. W., assignor to American Telpher Company, Buffalo, N. Y. Telpher system. No. 925,179; June 15; Sp. p. 4430; Gaz. vol. 143; p. 756.
- Harris, C. A. (See Harris, J., assignor.)
- Harris, C. A., Richmond, Va. Gripper for printing-presses. No. 927,853; July 13; Sp. p. 2401; Gaz. vol. 144; p. 411.
- Harris, C. A., assignor to Harris Gripper and Mfg. Co., Inc., Richmond, Va. Adjustable tympan-frame. No. 935,203; Sept. 28; Sp. p. 4483; Gaz. vol. 146; p. 798.
- Harris, C. C., Orange, Mass. Adding device. No. 935,365; Sept. 28; Sp. p. 4812; Gaz. vol. 146; p. 851.
- Harris, C. E., Coronado, Colo. Vehicle-wheel. No. 910,193; Jan. 19; Sp. p. 3556; Gaz. vol. 138; p. 647.
- Harris, D. B., Minturn, Cal. Gun-sight. No. 911,721; Feb. 9; Sp. p. 1389; Gaz. vol. 139; p. 258.
- Harris, F. C., Sackville, New Brunswick, Canada. Railway snow-clearing machine. No. 924,902; June 15; Sp. p. 3886; Gaz. vol. 143; p. 662.
- Harris, F. E., Edison, Ohio. Conveyor for grass-catchers for lawn-mowers. No. 926,485; June 29; Sp. p. 7071; Gaz. vol. 143; p. 1247.
- Harris, F. G. and A. E., Salem, Ohio. Stanchion. No. 942,639; Dec. 7; Sp. p. 1267; Gaz. vol. 149; p. 207.
- Harris, F. R., assignor to American Tobacco Company, New York, N. Y. Machine for cutting finger-notches in boxes. No. 916,442; Mar. 30; Sp. p. 5643; Gaz. vol. 140; p. 1022.
- Harris, G. W., Verdon, Va. Wagon-jack. No. 922,474; May 25; Sp. p. 4895; Gaz. vol. 142; p. 872.
- Harris Gripper and Mfg. Co. (See Harris, C. A., assignor.)
- Harris, H. C., Columbus, Ohio. Duplicating-machine. No. 921,244; May 11; Sp. p. 2349; Gaz. vol. 142; p. 412.
- Harris, H. C., Providence, R. I. Mechanism for cutting sheet-puzzles. No. 928,969; July 27; Sp. p. 4685; Gaz. vol. 144; p. 841.
- Harris, H. C., Anderson, Ind. Molding-machine. No. 938,321; Oct. 26; Sp. p. 5703; Gaz. vol. 147; p. 971.
- Harris, H. E., East Liverpool, Ohio. Measuring instrument. No. 937,302; Oct. 19; Sp. p. 3541; Gaz. vol. 147; p. 612.
- Harris, H. W., St. Louis, Mo. Safety locking-bolt. No. 918,316; Apr. 13; Sp. p. 2750; Gaz. vol. 141; p. 487.
- Harris, I. F., Forreston, Tex. Cotton-chopper. No. 939,253; Nov. 9; Sp. p. 1740; Gaz. vol. 148; p. 303.
- Harris, J. (See Kutz, G. C., assignor.)
- Harris, J., assignor to C. A. Harris, Cleveland, Ohio. Blowpipe. No. 920,054; Apr. 27; Sp. p. 6623; Gaz. vol. 141; p. 1126.
- Harris, J., assignor of one-half to C. R. Moore, West Lafayette, Ind. Method of and apparatus for measuring power. No. 925,180; June 15; Sp. p. 4432; Gaz. vol. 143; p. 757.
- Harris, J., West Lafayette, assignor to Central Laboratory Supply Company, La Fayette, Ind. Recording instrument. No. 926,869; July 6; Sp. p. 345; Gaz. vol. 144; p. 55.
- Harris, J., Janesville, Wis., assignor to Janesville Barb Wire Company. Die for wire-fence machines. No. 932,122; Aug. 24; Sp. p. 5314; Gaz. vol. 145; p. 906.
- Harris, J. A., *et al.* (See Johnson, G. F., assignor.)
- Harris, J. A., Jr., Minneapolis, Minn. Automobile fender or life-guard. No. 927,530; July 13; Sp. p. 1701; Gaz. vol. 144; p. 303.
- Harris, J. C., and W. J. Flood, Savannah, Ga. Tag-fastener. No. 931,420; Aug. 17; Sp. p. 3802; Gaz. vol. 145; p. 657.
- Harris, J. F. (See Benson and Harris.)
- Harris, J. G., Philadelphia, Pa. Station-indicator. No. 918,044; Apr. 13; Sp. p. 2204; Gaz. vol. 141; p. 396.
- Harris, J. M., Joppestown, Johannesburg, Transvaal. Type-writer. No. 937,599; Oct. 19; Sp. p. 4175; Gaz. vol. 147; p. 711.
- Harris, J. R., Raton, N. Mex. Ter. Syringe. No. 914,950; Mar. 9; Sp. p. 2693; Gaz. vol. 140; p. 452.
- Harris, J. S., Houston, Tex. Churn. No. 932,274; Aug. 24; Sp. p. 5611; Gaz. vol. 145; p. 957.
- Harris, J. T., New York, N. Y. Preparing potable waters. No. 937,210; Oct. 19; Sp. p. 3346; Gaz. vol. 147; p. 582.
- Harris, J. W. (See Craft and Harris.)
- Harris L., Independence, Kans. Compasses. No. 935,497; Sept. 28; Sp. p. 5055; Gaz. vol. 146; p. 893.

*Alphabetical list of patentees—Continued.*

- Harris, L. J., Davison, Mich. Lock. No. 931,603; Aug. 17; Sp. p. 4134; Gaz. vol. 145; p. 712.  
Harris, L. J., New York, N. Y. Power-transmitting device. No. 932,467; Aug. 31; Sp. p. 6002; Gaz. vol. 145; p. 1043.  
Harris, L. P., Terrell, Tex. Auger-bit. No. 925,903; June 22; Sp. p. 5910; Gaz. vol. 143; p. 1021.  
Harris, M. (See Phillips, Harris, and Dearing.)  
Harris, M., Newark, N. J. Sod-cutting tool. No. 944,859; Dec. 28; Sp. p. 6112; Gaz. vol. 149; p. 1050.  
Harris, O. E., assignor of one-half to O. M. Pruitt, Indianapolis, Ind. Air-lift pump. No. 923,169; June 1; Sp. p. 104; Gaz. vol. 143; p. 17.  
Harris, O. J. (See Miller, E., assignor.)  
Harris, R. D., J. E. Johnson, and H. W. Soest, Fort Wayne, Ind. Lock-out device for common-battery telephones. No. 925,098; June 15; Sp. p. 4276; Gaz. vol. 143; p. 728.  
Harris, R. S. (See Meeks and Harris.)  
Harris, S. R., Chattanooga, Tenn. Folding trestle. No. 932,702; Aug. 31; Sp. p. 6513; Gaz. vol. 145; p. 1122.  
Harris, T., Scranton, Pa. Toy. No. 912,844; Feb. 16; Sp. p. 3791; Gaz. vol. 139; p. 667.  
Harris, T. L., assignor of one-half to A. I. Haines, Wrightsville, Ga. Swingletree-guard. No. 908,666; Jan. 5; Sp. p. 507; Gaz. vol. 138; p. 79.  
Harris Tire & Rubber Co. (See Harris, W. D., assignor.)  
Harris, W., Lakenan, Mo. Door-operator. No. 911,496; Feb. 2; Sp. p. 888; Gaz. vol. 139; p. 157.  
Harris, W. D., assignor to Harris Tire & Rubber Co., Philadelphia, Pa. Tire. No. 940,528; Nov. 16; Sp. p. 4628; Gaz. vol. 148; p. 772.  
Harris, W. F., assignor of one-fourth to O. M. Rhodes, Lakenan, Mo. Lock-nut. No. 909,788; Jan. 12; Sp. p. 2731; Gaz. vol. 138; p. 481.  
Harris, W. H., Stark assignor of one-half to W. Garriety, Lothrop, Mont. Automatic train stop and signal. No. 933,440; Sept. 7; Sp. p. 897; Gaz. vol. 146; p. 140.  
Harris, W. R., Louisville, Ky. File-wrapper. No. 910,194; Jan. 19; Sp. p. 3559; Gaz. vol. 138; p. 647.  
Harris, W. R., Pelican, La. Board-setting tool. No. 911,404; Feb. 2; Sp. p. 741; Gaz. vol. 139; p. 128.  
Harris, W. T., Irvington-on-the-Hudson, N. Y. Speedometer. No. 942,497; Dec. 7; Sp. p. 989; Gaz. vol. 149; p. 159.  
Harris, W. R., Louisville, assignor to C. C. McChord, Jefferson county, Ky. Pump for exhaust-steam and feed-water. No. 916,309; Mar. 23; Sp. p. 5369; Gaz. vol. 140; p. 953.  
Harrison, A. C., Grand Rapids, Ohio. Fence-clamp. No. 939,835; Nov. 9; Sp. p. 3049; Gaz. vol. 148; p. 503.  
Harrison, A. E., assignor to Allis-Chalmers Company, Milwaukee, Wis. Chill-mold. No. 924,612; June 8; Sp. p. 3265; Gaz. vol. 143; p. 532.  
Harrison, C. J., assignor of one-half to G. H. Lund, Chicago, Ill. Feed-gage for printing-presses. No. 924,777; June 15; Sp. p. 3621; Gaz. vol. 143; p. 621.  
Harrison, C. W. (See Noad, A. C., assignor.)  
Harrison, C. W., London, England. Incandescent gas-lamp. No. 934,309; Sept. 14; Sp. p. 2708; Gaz. vol. 146; p. 450.  
Harrison, E. (See Pittman and Harrison.)  
Harrison, E. U., Birmingham, England. Multiple-spindle automatic lathe. No. 928,382; July 20; Sp. p. 3508; Gaz. vol. 144; p. 620.  
Harrison, G. E., and G. Burns, Detroit, Mich. Guard for the arms of electric-conductor supports. No. 914,042; Mar. 2; Sp. p. 842; Gaz. vol. 140; p. 130.  
Harrison, H. C., Exton, Pa. Electric smelting-furnace. No. 919,165; Apr. 20; Sp. p. 4542; Gaz. vol. 141; p. 794.  
Harrison, H. C., and W. M. O'Brien, assignors to Auto-Mosquito Mask Company, Salt Lake City, Utah. Tourist's and traveler's cap. No. 911,126; Feb. 2; Sp. p. 197; Gaz. vol. 139; p. 37.  
Harrison, H. H., Boston, Mass. Garment-fasterener. No. 944,673; Dec. 28; Sp. p. 5689; Gaz. vol. 149; p. 987.  
Harrison, H. O., assignor of one-half to S. McCreary, Wichita, Kans. Electric clock system. No. 943,933; Dec. 21; Sp. p. 4089; Gaz. vol. 149; p. 708.  
Harrison, J. C., Greenfield, Tenn. Combined match-box and cigar-clipper. No. 925,339; June 15; Sp. p. 4716; Gaz. vol. 143; p. 805.  
Harrison, J. D., Brooklyn, N. Y. Fireproof concrete floor construction. No. 913,820; Mar. 2; Sp. p. 293; Gaz. vol. 140; p. 50.  
Harrison, J. M., Lumberton, N. J. Game-table. No. 917,060; Apr. 6; Sp. p. 197; Gaz. vol. 141; p. 37.  
Harrison, J. R., Ballarat, Victoria, assignor of one-half to H. V. McKay, Melbourne, Australia. Amalgamator and concentrator for ores and tailings. No. 909,293; Jan. 12; Sp. p. 1756; Gaz. vol. 138; p. 316.  
Harrison, M. (See Arthur, H. R., assignor.)  
Harrison, O. H., and E. A. Peterson, assignors of one-fourth to H. A. Merlein and one-fourth to A. C. Horton, Rockford, Ill. Stroke-regulator for plungers. No. 928,193; July 13; Sp. p. 3085; Gaz. vol. 144; p. 525.  
Harrison, O. L., Coleta, Ill. Electrical signaling apparatus. No. 933,557; Sept. 7; Sp. p. 1221; Gaz. vol. 146; p. 179.  
Harrison, P., near Carnegie, Okla. Cotton-chopper. No. 909,294; Jan. 12; Sp. p. 1758; Gaz. vol. 138; p. 316.  
Harrison, R., Ringgold, La. Rail-joint. No. 921,245; May 11; Sp. p. 2352; Gaz. vol. 142; p. 412.  
Harrison Safety Boiler Works. (See Gamble, J. W., assignor.)  
Harrison, T. J., et al. (See Densmore and Hayton, assignors.)  
Harrison, W., Bloomfield, N. J. Siphon. No. 922,698; May 25; Sp. p. 5361; Gaz. vol. 142; p. 945.  
Harrison, W. F. (See Worth and Harrison.)  
Harrison, W. H. (See Lapp and Harrison.)  
Harrison, W. J., assignor of one-half to G. C. Adams, West Derby, Vt. Leaf-spring. No. 933,441; Sept. 7; Sp. p. 899; Gaz. vol. 146; p. 140.  
Harrison, W. M. (See Parks, J. W., assignor.)  
Harrison, W. R., and A. C. Jacoby, Massillon, Ohio; said Jacoby assignor to said Harrison. Silo. No. 942,640; Dec. 7; Sp. p. 1268; Gaz. vol. 149; p. 207.  
Harrison, W. S., Tabor, S. D. Ear-corn conveyer. No. 920,951; May 11; Sp. p. 1758; Gaz. vol. 142; p. 312.  
Harrod, J. E., Indianapolis, Ind. Vehicle-wheel. No. 914,659; Mar. 9; Sp. p. 2096; Gaz. vol. 140; p. 356.  
Harrod, J. E., Indianapolis, Ind. Photographer's camera-stand. No. 920,135; May 4; Sp. p. 91; Gaz. vol. 142; p. 13.  
Harrold, A., Lima, Ohio. Steering device for traction-engines. No. 914,951; Mar. 9; Sp. p. 2694; Gaz. vol. 140; p. 452.  
Harrold, A., Delaware, Ohio. Gear for traction-engines. (Reissue.) No. 12,930; Mar. 23; Sp. p. 5565; Gaz. vol. 140; p. 986.  
Harrold, E., Leetonia, Ohio. Cutter-head. No. 943,540; Dec. 14; Sp. p. 3231; Gaz. vol. 149; p. 544.  
Harrop, J. T., Garfield, N. J. Cement-worker's tool. No. 923,834; June 8; Sp. p. 1668; Gaz. vol. 143; p. 276.  
Harrop, J. T., Garfield, N. J. Cement-worker's tool. No. 930,374; Aug. 10; Sp. p. 1520; Gaz. vol. 145; p. 276.  
Harrop, W. (See Gorman, F., assignor.)  
Harrop, W., and P. F. Farrell, Taunton, Mass. Sliver lap-machine. No. 919,008; Apr. 20; Sp. p. 4262; Gaz. vol. 141; p. 745.  
Harry, E., Buffalo, N. Y. Sprayer. No. 938,144; Oct. 26; Sp. p. 5322; Gaz. vol. 147; p. 910.  
Harry, H. W., Kansas City, Mo. Corrugated sheet-metal culvert. No. 943,306; Dec. 14; Sp. p. 2738; Gaz. vol. 149; p. 462.  
Harry, O. K., St. Louis, Mo., assignor to O. K. Harry Steel Co. Pulley. No. 923,790; June 1; Sp. p. 1551; Gaz. vol. 143; p. 231.  
Harryman, A. C., Louisville, Ky. Automatic wagon-brake. No. 922,423; May 18; Sp. p. 4770; Gaz. vol. 142; p. 827.  
Harsant, H., Penge, assignor to E. G. Mitchell, London, England. Air pumping or forcing mechanism. No. 941,450; Nov. 30; Sp. p. 6637; Gaz. vol. 148; p. 1125.  
Harsen, J., New York, N. Y. Trolley-pole. No. 937,935; Oct. 26; Sp. p. 4873; Gaz. vol. 147; p. 841.  
Harsh, J. J. (See Pearce, J. C., assignor.)  
Harsh, S. E., Wabash, Ind. Rein or neck-strap line-terret. No. 931,298; Aug. 17; Sp. p. 3560; Gaz. vol. 145; p. 614.  
Harsha, T. R. (See Garner, C. E., assignor.)  
Harshbarger, P. G., Hyde Park, Mass. Concrete manhole or catch-basin. No. 929,644; July 27; Sp. p. 6034; Gaz. vol. 144; p. 1063.  
Harskowitz, B., New York, N. Y. Garment-rack. No. 938,231; Oct. 26; Sp. p. 5514; Gaz. vol. 147; p. 942.  
Harstad, T. O., Windom, Minn. Windmill. No. 917,942; Apr. 13; Sp. p. 1978; Gaz. vol. 141; p. 359.  
Hart, A. E., Madison, Wis. Ventilating system. No. 925,099; June 15; Sp. p. 4280; Gaz. vol. 143; p. 729.  
Hart, A. F., Hickory, N. C. Track-tamping implement. No. 935,757; Oct. 5; Sp. p. 284; Gaz. vol. 147; p. 46.  
Hart, A. W., Washington, D. C. Minnow-bucket. No. 913,379; Feb. 23; Sp. p. 4857; Gaz. vol. 139; p. 870.  
Hart, C. A., Racine, Wis. Device for removing burs from pipes. No. 909,182; Jan. 12; Sp. p. 1551; Gaz. vol. 138; p. 280.  
Hart, C. C., Findlay, Ohio. Fruit and vegetable display rack. No. 940,807; Nov. 23; Sp. p. 5249; Gaz. vol. 148; p. 891.  
Hart, C. M. (See Inglee and Hart.)  
Hart, C. W., Charles City, Iowa. Clutch. No. 926,184; June 29; Sp. p. 6504; Gaz. vol. 143; p. 1150.  
Hart & Cooley Company. (See Goodwin, E. C., assignor.)  
Hart & Cooley Company. (See Hart, H. S., assignor.)  
Hart & Cooley Company. (See House, E. D., assignor.)  
Hart, E., assignor to New England Watch Co., Waterbury, Conn. Winding and setting mechanism for watches. No. 944,860; Dec. 28; Sp. p. 6113; Gaz. vol. 149; p. 1050.  
Hart, F. V. (See Winkley and Hart.)  
Hart, G., Pueblo, Colo. Watch-stem. No. 915,433; Mar. 16; Sp. p. 3660; Gaz. vol. 140; p. 637.  
Hart, G. B., Rochester, N. Y. Detachable bail for flower-pots and like articles. No. 912,472; Feb. 16; Sp. p. 2987; Gaz. vol. 139; p. 540.  
Hart, G. C., Newton, Iowa. Automatic fountain for horses, &c. No. 912,241; Feb. 9; Sp. p. 2464; Gaz. vol. 139; p. 424.  
Hart, G. E., Tifton, Ga. Shoe-holder. No. 914,952; Mar. 9; Sp. p. 2696; Gaz. vol. 140; p. 452.  
Hart, G. S. (See Barnett, J. B., assignor.)  
Hart, G. W., assignor to Hart Manufacturing Company, Hartford, Conn. Switch. No. 917,760; Apr. 13; Sp. p. 1584; Gaz. vol. 141; p. 298.



*Alphabetical list of patentees—Continued.*

- Hart, G. W., assignor to Hart Manufacturing Company, Hartford, Conn. Switch. No. 926,001; June 22; Sp. p. 6087; Gaz. vol. 143; p. 1052.
- Hart, G. W., West Hartford, assignor to Hart Manufacturing Company, Hartford, Conn. Electric-switch. No. 938,664; Nov. 2; Sp. p. 485; Gaz. vol. 148; p. 75.
- Hart, G. W., West Hartford, assignor to Hart Manufacturing Company, Hartford, Conn. Mechanical movement. No. 939,193; Nov. 2; Sp. p. 1592; Gaz. vol. 148; p. 257.
- Hart, G. W., West Hartford, assignor to Hart Manufacturing Company, Hartford, Conn. Means for controlling electric circuits. No. 941,777; Nov. 30; Sp. p. 7328; Gaz. vol. 148; p. 1235.
- Hart, G. W., and F. D. Reynolds, assignors to Sachs Company, Hartford, Conn. Safety-fuse. No. 914,043; Mar. 2; Sp. p. 843; Gaz. vol. 140; p. 130.
- Hart, H. (See Wallace and Hart.)
- Hart, H. C. (See Keyes, N. B., assignor.)
- Hart, H. C., Unionville, Conn. Razor. No. 919,719; Apr. 27; Sp. p. 5917; Gaz. vol. 141; p. 1016.
- Hart, H. S., Chicago, Ill., assignor to Rodger Ballast Car Company. Ballast plow-car. No. 908,461; Jan. 5; Sp. p. 53; Gaz. vol. 138; p. 11.
- Hart, H. S., Chicago, Ill., assignor to Rodger Ballast Car Company. Railway-car. No. 941,249; Nov. 23; Sp. p. 6185; Gaz. vol. 148; p. 1037.
- Hart, H. S., assignor to Hart & Cooley Company, New Britain, Conn. Register or ventilator. No. 941,413; Nov. 30; Sp. p. 6569; Gaz. vol. 148; p. 114.
- Hart, H. W. (See Marsh, G. C., assignor.)
- Hart & Hegeman Manufacturing Company. (See Guett, M., assignor.)
- Hart, J. E., Moose Jaw, Saskatchewan, Canada. Shoulder-brace, suspender, and belt apparatus. No. 930,283; Aug. 3; Sp. p. 1341; Gaz. vol. 145; p. 221.
- Hart, J. L., Chickasha, Okla. Lint-cotton picker and cleaner. No. 927,350; July 6; Sp. p. 1303; Gaz. vol. 144; p. 215.
- Hart, J. T., Brooklyn, N. Y. Brush attachment. No. 911,589; Feb. 9; Sp. p. 1102; Gaz. vol. 139; p. 214.
- Hart, J. T., Brooklyn, N. Y. Floor-oiler. No. 929,943; Aug. 3; Sp. p. 683; Gaz. vol. 145; p. 109.
- Hart, K. (See Wimmer, Hart, and Hertel.)
- Hart, L. F., assignor to Hart Manufacturing Company, Cleveland, Ohio. Screw-cutting device. No. 925,100; June 15; Sp. p. 4282; Gaz. vol. 143; p. 730.
- Hart, L. F., assignor to Hart Manufacturing Company, Cleveland, Ohio. Screw-cutting device. No. 925,181; June 15; Sp. p. 4437; Gaz. vol. 143; p. 757.
- Hart, L. F., assignor to Hart Manufacturing Company, Cleveland, Ohio. Work-holding means for screw-threading devices. No. 935,107; Sept. 28; Sp. p. 4307; Gaz. vol. 146; p. 768.
- Hart, M. H., Brooklyn, N. Y. Swivel-coupling. No. 918,542; Apr. 20; Sp. p. 3231; Gaz. vol. 141; p. 589.
- Hart, M. H., Brooklyn, N. Y. Cellar-pipe and nozzle therefor. No. 923,835; June 8; Sp. p. 1669; Gaz. vol. 143; p. 276.
- Hart Manufacturing Company. (See Hart, G. W., assignor.)
- Hart Manufacturing Company. (See Hart, L. F., assignor.)
- Hart Manufacturing Company. (See Leppert, H. E., assignor.)
- Hart, R. R., Rapatee, Ill. Vehicle-brake. No. 938,322; Oct. 26; Sp. p. 5704; Gaz. vol. 147; p. 972.
- Hart, S. B., Peoria, Ill. Spout. No. 921,696; May 18; Sp. p. 3309; Gaz. vol. 142; p. 589.
- Hart, T. H., Everett, Mass. Can-straightener. No. 918,146; Apr. 13; Sp. p. 2409; Gaz. vol. 141; p. 432.
- Hart, W. E., Andalusia, Ala. Rural-mail-box signal. No. 927,652; July 13; Sp. p. 1979; Gaz. vol. 144; p. 345.
- Hart, W. H., U. S. Army, assignor of one-half to H. B. Leary, Washington, D. C. Camp-oven. (Reissue.) No. 12,961; May 25; Sp. p. 6283; Gaz. vol. 142; p. 1086.
- Härtel, L., and L. Kissling, Remscheid, Germany. Apparatus for use in twisting metal rods or bars. No. 942,322; Dec. 7; Sp. p. 626; Gaz. vol. 149; p. 100.
- Hartell-Duffy Company. (See Duffy, C. G., assignor.)
- Hartenstein, H. L., Constantine, Mich., assignor, by mesne assignments, to Continental Investment Company, Duluth, Minn. Carbide manufacturing same. No. 938,581; Nov. 2; Sp. p. 323; Gaz. vol. 148; p. 47.
- Harter, C. F. (See Wakefield and Harter.)
- Hartford Machine Screw Company. (See Pearson and Seward, assignors.)
- Hartford Machine Screw Company. (See Seward, E. R., assignor.)
- Hartford Machine Screw Company. (See Townsend, H. P., assignor.)
- Hartford Machine Screw Company. (See Withereff and Seward, assignors.)
- Hartford Rubber Works Company. (See Midgley, T., assignor.)
- Hartford Rubber Works Company. (See Shea, J. J., assignor.)
- Hartman, W. P., assignor to J. R. Torrey & Co., Worcester, Mass. Razor-strop. No. 931,758; Aug. 24; Sp. p. 4522; Gaz. vol. 145; p. 786.
- Harting, C. C. (See Knapp and Harting.)
- Hartl, A., Philadelphia, Pa. Chute cart or wagon. No. 926,983; July 6; Sp. p. 569; Gaz. vol. 144; p. 93.
- Hartle, E. G., Columbus, Ohio. Road-scraper. No. 934,071; Sept. 14; Sp. p. 2244; Gaz. vol. 146; p. 369.
- Hartley, E., administratrix. (See Hartley, W. H.)
- Hartley, G. F., Muncie, Ind. Wood-steaming apparatus. No. 916,149; Mar. 23; Sp. p. 5086; Gaz. vol. 140; p. 900.
- Hartley, J. H. and J. W., Broyles, Colo. Jack-screw. No. 912,675; Feb. 16; Sp. p. 3406; Gaz. vol. 139; p. 610.
- Hartley, J. W. (See Hartley, J. H. and J. W.)
- Hartley, W. A., and B. H. Deby, Sheffield, England. Manufacture of armor-plates and other articles. No. 919,859; Apr. 27; Sp. p. 6228; Gaz. vol. 141; p. 1062.
- Hartley, W. H., deceased, Fall River, Mass.; E. Hartley, administratrix. Heddle for looms. No. 916,862; Mar. 30; Sp. p. 6465; Gaz. vol. 140; p. 1155.
- Hartlove E. F., Baltimore, Md. Can-soldering machine. No. 937,524; Oct. 19; Sp. p. 4039; Gaz. vol. 147; p. 686.
- Hartman, A., San Antonio, Tex. Draft appliance for agricultural implements. No. 929,424; July 27; Sp. p. 5649; Gaz. vol. 144; p. 991.
- Hartman, B., East Pittsburg, Pa. Combined automobile and motor-boat. No. 921,396; May 11; Sp. p. 2689; Gaz. vol. 142; p. 462.
- Hartman, E., Brownsville, Tex. Vehicle-wheel. No. 937,798; Oct. 26; Sp. p. 4590; Gaz. vol. 147; p. 795.
- Hartman, G., Rockwall, Tex. Steam-condenser. No. 928,125; July 13; Sp. p. 2929; Gaz. vol. 144; p. 501.
- Hartman, G., assignor of two-fifths to E. Wenning, Cincinnati, Ohio. Printing-press. No. 923,836; June 8; Sp. p. 1670; Gaz. vol. 143; p. 277.
- Hartman, H. B., assignor to McDowell Manufacturing Company, Pittsburg, Pa. Electrolytic water-purifying apparatus. No. 943,187; Dec. 14; Sp. p. 2482; Gaz. vol. 146; p. 421.
- Hartman, H. B., assignor to McDowell Manufacturing Company, Pittsburg, Pa. Purifying water electrolytically. No. 943,188; Dec. 14; Sp. p. 2486; Gaz. vol. 149; p. 422.
- Hartman, H. M., assignor of one-half to O. P. Hanson, Minneapolis, Minn. Pneumatic tire and clamping means. No. 927,793; July 13; Sp. p. 2267; Gaz. vol. 144; p. 391.
- Hartman, J., Rochester, N. Y. Deposit and collection receptacle. No. 908,770; Jan. 5; Sp. p. 719; Gaz. vol. 138; p. 112.
- Hartman, J. G. (See Wurzer and Hartman.)
- Hartman, J. K. (See Burrows, C. A., assignor.)
- Hartman, S., Dayton, Ohio. Cigar wrapper cutter and rolling board. No. 937,371; Oct. 19; Sp. p. 3687; Gaz. vol. 147; p. 634.
- Hartman, W. A., Butler, Pa. Easel. No. 918,045; Apr. 13; Sp. p. 2207; Gaz. vol. 141; p. 397.
- Hartman, W. T., assignor to P. & F. Corbin, New Britain, Conn. Key-stop for locks. No. 929,668; Aug. 3; Sp. p. 49; Gaz. vol. 145; p. 11.
- Hartmann Aluminum Solder Company. (See Hartmann, G., assignor.)
- Hartmann, C. A., Washington, D. C. Temporary binder. No. 914,953; Mar. 9; Sp. p. 2697; Gaz. vol. 140; p. 453.
- Hartmann Cream Separator Company. (See Hartmann, W. C., assignor.)
- Hartmann, E. L. (See Collins and Hartmann.)
- Hartmann, F. (See Bolton and Hartmann.)
- Hartmann, G., assignor to Hartmann Aluminum Solder Company, New York, N. Y. Metallic alloy. No. 938,422; Oct. 26; Sp. p. 5939; Gaz. vol. 147; p. 1007.
- Hartmann, S., Chicago, Ill. Washing-machine. No. 933,300; Sept. 7; Sp. p. 610; Gaz. vol. 146; p. 94.
- Hartmann, S., Chicago, Ill. Smoke-consumer. No. 933,301; Sept. 7; Sp. p. 612; Gaz. vol. 146; p. 94.
- Hartmann Trunk Company. (See Wheary, G. H., assignor.)
- Hartmann, W. C., assignor to Hartmann Cream Separator Company, Lansing, Mich. Cream-separator. No. 913,006; Feb. 23; Sp. p. 4103; Gaz. vol. 139; p. 744.
- Hartnagel, A. L., Rotterdam, Netherlands. Embankment. No. 918,046; Apr. 13; Sp. p. 2209; Gaz. vol. 141; p. 397.
- Hartnell, S. J., Oswego, Oreg. Toy basket-ball device. No. 910,811; Jan. 26; Sp. p. 4583; Gaz. vol. 138; p. 831.
- Hartness, J., Springfield, Vt. Metal-working machine. No. 912,676; Feb. 16; Sp. p. 3408; Gaz. vol. 139; p. 611.
- Hartnett, D. E., New York, N. Y. Hand-support for banjos. No. 914,660; Mar. 9; Sp. p. 2098; Gaz. vol. 140; p. 356.
- Hartnett, J., Jr., West Arlington, assignor to Hartnett Vulcograph Company of Baltimore City, Baltimore, Md. Making plates for printing or embossing. No. 921,397; May 11; Sp. p. 2690; Gaz. vol. 142; p. 462.

*Alphabetical list of patentees—Continued.*

- Hartnett, J., Jr., West Arlington, assignor to Hartnett Vulcograph Company of Baltimore City, Baltimore, Md. Making half-tone plates. No. 940,808; Nov. 23; Sp. p. 5250; Gaz. vol. 148; p. 891.
- Hartnett Vulcograph Company of Baltimore City. (See Hartnett, J., Jr., assignor.)
- Hartog, M. (See Haywood, D. H., assignor.)
- Harton, P. D., Philadelphia, Pa. Cake-coating machine. No. 910,812; Jan. 26; Sp. p. 4884; Gaz. vol. 138; p. 881.
- Harton, P. D., Philadelphia, Pa. Cake-coating machine. No. 939,836; Nov. 9; Sp. p. 3050; Gaz. vol. 148; p. 504.
- Harton, P. D., Philadelphia, and C. F. Crelier, Pittsburgh, Pa. Cake-coating machine. No. 935,975; Oct. 5; Sp. p. 800; Gaz. vol. 147; p. 118.
- Hartsig, L. W., Chicago, Ill., assignor to Sargent & Company, New Haven, Conn. Door-hinge. No. 910,533; Jan. 26; Sp. p. 4303; Gaz. vol. 138; p. 790.
- Hartsock, L. C., Spring Valley, Ohio. Waxing-pad. No. 932,388; Aug. 24; Sp. p. 5313; Gaz. vol. 145; p. 993.
- Hartt, H., Chicago, Ill. Cam. No. 916,702; Mar. 30; Sp. p. 6178; Gaz. vol. 140; p. 1106.
- Hartung, G. K., New York, N. Y. Electric glow-lamp. No. 930,958; Aug. 10; Sp. p. 2759; Gaz. vol. 145; p. 469.
- Hartwell, B. J., Salt Lake City, Utah. Can-cover. No. 933,302; Sept. 7; Sp. p. 614; Gaz. vol. 146; p. 95.
- Hartwell, C. M., Marion, Ohio. Signal device. No. 929,590; July 27; Sp. p. 5942; Gaz. vol. 144; p. 1045.
- Hartwell, D. B., Roseworth, Idaho. Combined shovel and hoe. No. 939,019; Nov. 2; Sp. p. 1227; Gaz. vol. 148; p. 196.
- Hartwell, L. L., Revere, assignor to A. G. Walton, Wakefield, Mass. Machine for making skived blanks for heel-counters, &c. No. 942,557; Dec. 7; Sp. p. 1105; Gaz. vol. 149; p. 179.
- Hartwick, L. M., Pueblo, Colo. Moisture producing and regulating device. No. 917,863; Apr. 13; Sp. p. 1814; Gaz. vol. 141; p. 332.
- Hartwig, C. H., New York, assignor of one-half to B. Ekenberg, Rockville Center, N. Y. Hoisting apparatus. No. 932,468; Aug. 31; Sp. p. 6006; Gaz. vol. 145; p. 1043.
- Hartz, E. A., Worcester, Mass. Wire heddle. No. 930,857; Aug. 10; Sp. p. 2534; Gaz. vol. 145; p. 437.
- Hartz, J. (See Bordenkircher, J. E., assignor.)
- Hartzell, J. H., Cincinnati, Ohio. Ironing-board. No. 927,237; July 6; Sp. p. 1111; Gaz. vol. 144; p. 180.
- Hartzler, J. Z., East Lynne, Mo. Fender for corn-planters. No. 932,275; Aug. 24; Sp. p. 5612; Gaz. vol. 145; p. 957.
- Harvard Company. (See Case, F. E., assignor.)
- Harvel, S. T., assignor of one-fourth to T. Stevens and one-fourth to E. T. Riling, Lawrence, Kans. Railway-signal. No. 929,214; July 27; Sp. p. 5197; Gaz. vol. 144; p. 922.
- Harvey, A. C., *et al.* (See Bryar, G., assignor.)
- Harvey, C. A., Chicago, Ill., assignor to Producer Gas Utilities Company. Valve. No. 927,794; July 13; Sp. p. 2268; Gaz. vol. 144; p. 392.
- Harvey, C. J., Kidderminster, England. Portable vacuum dust-extractor. No. 908,992; Jan. 5; Sp. p. 1159; Gaz. vol. 138; p. 184.
- Harvey, C. J., Kidderminster, England. Pneumatic dusting and sweeping appliance. No. 912,956; Feb. 16; Sp. p. 3982; Gaz. vol. 139; p. 701.
- Harvey, C. W., New Brunswick, N. J. Grate. No. 918,317; Apr. 13; Sp. p. 2751; Gaz. vol. 141; p. 488.
- Harvey, F. R., Pittsburgh, assignor of one-eighth to H. A. Herchenroether, one-eighth to H. S. Ness, Bellevue, and one-fourth to F. Beehner, Pittsburgh, Pa. Ventilator for vehicles. No. 938,232; Oct. 26; Sp. p. 5516; Gaz. vol. 147; p. 943.
- Harvey Frost & Company. (See Welch, W. H., assignor.)
- Harvey, G. W. (See Miller, M. B., assignor.)
- Harvey, J. (See Maloney, Harvey, and Paul.)
- Harvey, J. G., Chicago, Ill., assignor to American Stove Company, St. Louis, Mo. Burner-flame reflector. No. 925,182; June 15; Sp. p. 4442; Gaz. vol. 143; p. 758.
- Harvey, J. H., Platte, S. D. End-gate. No. 935,498; Sept. 28; Sp. p. 5056; Gaz. vol. 146; p. 893.
- Harvey, L. P., Charlotte Court House, Va. Grubbing implement. No. 935,020; Sept. 28; Sp. p. 4110; Gaz. vol. 146; p. 737.
- Harvey, L. S., Brooklyn, N. Y. Garter. No. 908,665; Jan. 5; Sp. p. 506; Gaz. vol. 138; p. 79.
- Harvey, M. G., Shreveport, La. Corn-husking machine. No. 938,233; Oct. 26; Sp. p. 5517; Gaz. vol. 147; p. 943.
- Harvey, R. (See Fried and Harvey.)
- Harvey, W. C. (See Savin and Harvey.)
- Harwood Electric Heating Co. (See Rankin and Harwood, assignors.)
- Harwood, J. F., *et al.* (See Bryant, R. F., assignor.)
- Harwood, H., *et al.* (See Brewer, A. G., assignor.)
- Harwood, R. C., *et al.* (See Washington, D. E., assignor.)
- Harwood, R. W., *et al.* (See Brewer, A. G., assignor.)
- Harwood, W. M. (See Rankin and Harwood.)
- Harzer, C., Grunewald, near Berlin, Germany. Sorting-machine. No. 935,976; Oct. 5; Sp. p. 805; Gaz. vol. 147; p. 119.
- Hasbrouck, R., Flushing, N. Y. Souvenir post-card. No. 938,763; Nov. 2; Sp. p. 672; Gaz. vol. 148; p. 107.
- Hasey, H. W., Hempstead, N. Y. Brush. No. 930,375; Aug. 10; Sp. p. 1521; Gaz. vol. 145; p. 276.
- Hase, F. F., Milwaukee, Wis. Floor-scraper. (Reissue.) No. 13,011; Aug. 17; Sp. p. 4418; Gaz. vol. 145; p. 750.
- Hasek, M. J. (See Hasek, T. A., assignor.)
- Hasek, T. A., assignor of one-half to M. J. Hasek, Cleveland, Ohio. Faucet or valve device for washbasins and the like. No. 943,404; Dec. 14; Sp. p. 2940; Gaz. vol. 149; p. 495.
- Hasel, R., assignor of one-third to G. Bonneck and one-third to H. Hotz, New York, N. Y. Safety-envelop. No. 939,949; Nov. 9; Sp. p. 3295; Gaz. vol. 148; p. 543.
- Haseltine, S. B., assignor to W. H. Miner Company, Chicago, Ill. Draft-rigging for railway-cars. No. 911,874; Feb. 9; Sp. p. 1657; Gaz. vol. 139; p. 307.
- Hasenbach, W., Mannheim, Germany. Making infusible sodium sulfid. No. 914,271; Mar. 2; Sp. p. 1318; Gaz. vol. 140; p. 204.
- Hasha, W. C., *et al.* (See Mercer, J. W., assignor.)
- Hashim, G. K., New York, N. Y. Attachment for water-closet seats. No. 937,525; Oct. 19; Sp. p. 4041; Gaz. vol. 147; p. 687.
- Haskell, C. S., deceased; R. C. Haskell, Philadelphia, Pa., administratrix. Key and key-action for organs or similar musical instruments. No. 921,610; May 11; Sp. p. 3114; Gaz. vol. 142; p. 532.
- Haskell, F. H., Boston, Mass. Safety twine-cutter. No. 939,129; Nov. 2; Sp. p. 1444; Gaz. vol. 148; p. 235.
- Haskell, G. O., New York, N. Y. Automatic alarm for sprinkler systems. No. 914,569; Mar. 9; Sp. p. 1927; Gaz. vol. 140; p. 328.
- Haskell, H. L., assignor to Carrom-Archarena Company, Ludington, Mich. Finishing process. No. 935,603; Sept. 28; Sp. p. 5298; Gaz. vol. 146; p. 930.
- Haskell, H. W., Holyoke, Mass. Tool-holder. No. 935,977; Oct. 5; Sp. p. 806; Gaz. vol. 147; p. 119.
- Haskell, R. C., administratrix. (See Haskell, C. S.)
- Haskell, S. F., St. Louis, Mo. Weather-strip. No. 926,409; June 29; Sp. p. 6935; Gaz. vol. 143; p. 1222.
- Haskell, W. E., assignor to Estey Organ Company, Brattleboro, Vt. Straight-lift pneumatic. No. 923,263; June 1; Sp. p. 313; Gaz. vol. 143; p. 49.
- Haskill, W. J., Fargo, N. D., assignor of one-half to H. Schuten, Minneapolis, Minn. Throttle-valve. No. 910,195; Jan. 19; Sp. p. 3560; Gaz. vol. 138; p. 648.
- Haskins, C. D., Schenectady, N. Y., assignor to General Electric Company. Arc-lamp. No. 935,908; Oct. 5; Sp. p. 659; Gaz. vol. 147; p. 96.
- Haskins, M. V. (See Martin and Haskins.)
- Haskins, M. V. (See Wheeler, Haskins, and Wheeler.)
- Haskins, R. B., Cincinnati, Ohio. Molder's chaplet. No. 935,978; Oct. 5; Sp. p. 807; Gaz. vol. 147; p. 119.
- Haskins, V. R., West Philadelphia, Pa. Artificial flower. No. 921,246; May 11; Sp. p. 2353; Gaz. vol. 142; p. 413.
- Haslop, G. H., Worcester, assignor to United States Envelope Company, Springfield, Mass. Adjusting device for cutting-dies. No. 924,778; June 15; Sp. p. 3622; Gaz. vol. 143; p. 621.
- Haslop, J. A., London, England. Device for cleaning or truing electric contacts. No. 927,042; July 6; Sp. p. 724; Gaz. vol. 144; p. 114.
- Haslop, C. L., *et al.* (See Haslop, W., assignor.)
- Haslop, W., assignor of one-third to C. L. Haslop and one-third to W. A. Perry, Sidney, Ohio. Wheelbarrow. No. 930,959; Aug. 10; Sp. p. 2766; Gaz. vol. 145; p. 470.
- Hass, H. J., assignor to E. R. Thomas Motor Company, Buffalo, N. Y. Running-gear for automobiles. No. 924,061; June 8; Sp. p. 2086; Gaz. vol. 143; p. 347.
- Hassam Paving Company. (See Hassam, W. E., assignor.)
- Hassam, W. E., assignor to Hassam Paving Company, Worcester, Mass. Concrete-mixer. No. 912,125; Feb. 9; Sp. p. 2253; Gaz. vol. 139; p. 390.
- Hassam, W. E., assignor to Hassam Paving Company, Worcester, Mass. Pavement. No. 912,126; Feb. 9; Sp. p. 2255; Gaz. vol. 139; p. 390.
- Hassel, G. A., McKeesport, assignor to Pittsburgh Track Specialty Company, Pittsburgh, Pa. Metallic tie and rail-fastener. No. 940,809; Nov. 23; Sp. p. 5255; Gaz. vol. 148; p. 891.
- Hassel, G. A., McKeesport, assignor to Pittsburgh Track Specialty Company, Pittsburgh, Pa. Metallic tie and rail-fastening. No. 940,966; Nov. 23; Sp. p. 5571; Gaz. vol. 148; p. 943.
- Hassel, N. H., Los Angeles, Cal. Resilient tire. No. 923,516; June 1; Sp. p. 898; Gaz. vol. 143; p. 137.
- Hasselback, W. R., Falls Creek, Pa. Brick-cutting machine. No. 943,541; Dec. 14; Sp. p. 3233; Gaz. vol. 149; p. 544.



*Alphabetical list of patentees—Continued.*

- Hasselbring, J., New York, N. Y. Shaving-cup. No. 913,380; Feb. 23; Sp. p. 4861; Gaz. vol. 139; p. 870.
- Hassenplug, E. D., Greenville, Pa. Axle-skein. No. 937,936; Oct. 26; Sp. p. 4874; Gaz. vol. 147; p. 841.
- Hassinger, J. M., *et al.* (See Seyler, U. M., assignor.)
- Hassler, R. H., Indianapolis, Ind. Magneto-generator. No. 939,910; Nov. 9; Sp. p. 3210; Gaz. vol. 148; p. 529.
- Hastings, A. L., Philadelphia, Pa. Truck-frame. No. 936,626; Oct. 12; Sp. p. 2176; Gaz. vol. 147; p. 360.
- Hastings, B., Cleveland, Ohio. Rock-drill. No. 916,703; Mar. 30; Sp. p. 6180; Gaz. vol. 140; p. 1107.
- Hastings, C., Jasonville, Ind. Holdback. No. 928,602; July 20; Sp. p. 3963; Gaz. vol. 144; p. 691.
- Hastings, C. L., Fond du Lac, Wis. Animal-cover. No. 940,967; Nov. 23; Sp. p. 5572; Gaz. vol. 148; p. 943.
- Hastings, C. S., New Haven, Conn. Prism-telescope. No. 913,147; Apr. 13; Sp. p. 2410; Gaz. vol. 141; p. 432.
- Hastings, E. M., and H. C. Bilbro, Birmingham, Ala. Combined salt and pepper shaker. No. 923,650; June 1; Sp. p. 1198; Gaz. vol. 143; p. 184.
- Hastings, F. J. (See Nichols and Hastings.)
- Hastings, G. T., Ashtabula, Ohio. Compound tool. No. 933,442; Sept. 7; Sp. p. 899; Gaz. vol. 146; p. 140.
- Hastings, H. L., Chicago, Ill. Ash-sifter. No. 937,799; Oct. 26; Sp. p. 4591; Gaz. vol. 147; p. 796.
- Hastings, J. E., *et al.* (See Bostian, H. C., assignor.)
- Hastings, M., Fresno, Cal. Plumb, level, degree-finder, and surveyor's instrument. No. 919,860; Apr. 27; Sp. p. 6230; Gaz. vol. 141; p. 1063.
- Hastings, M. M., Washington, D. C. Apparatus for measuring the humidity in or determining the evaporating power of the air. No. 911,875; Feb. 9; Sp. p. 1658; Gaz. vol. 139; p. 307.
- Hastings, R. C. M., and T. Matheny Athens, Ohio. Telephony. No. 918,852; Apr. 20; Sp. p. 3935; Gaz. vol. 141; p. 693.
- Hastings, W. H. H., *et al.* (See Williams, W. S., assignor.)
- Hastings, W. M., Methuen, assignor to Draper Company, Hopedale, Mass. Bobbin. No. 912,564; Feb. 16; Sp. p. 3196; Gaz. vol. 139; p. 573.
- Hastreiter, J., Morgantown, W. Va., and N. Bleilevens, Dunbar, Pa. Machine for making wire-glass. No. 944,861; Dec. 28; Sp. p. 6115; Gaz. vol. 149; p. 1000.
- Hasty Manufacturing Company. (See Hasty, O. R., assignor.)
- Hasty, O. R., assignor to Hasty Manufacturing Company, Chicago, Ill. Safety gas-cock. No. 931,197; Aug. 17; Sp. p. 3324; Gaz. vol. 145; p. 578.
- Hazinger, G. E., and S. J. Ronan, Greenville, Miss. Lubricator for saw-blades. No. 930,960; Aug. 10; Sp. p. 2767; Gaz. vol. 145; p. 470.
- Hatch, B. B., Boston, Mass. Fire-alarm signal system. No. 917,061; Apr. 6; Sp. p. 199; Gaz. vol. 141; p. 37.
- Haten, E. N., *et al.*, executors. (See Brown, N. E.)
- Hatch, J. M. (See Sims, Hatch, and Turrentine.)
- Hatch, L. C. (See Drake and Hatch.)
- Hatcher, C. C., Chicago, Ill. Window-refrigerator. No. 935,021; Sept. 28; Sp. p. 4111; Gaz. vol. 146; p. 737.
- Hatcher, J. N., Jasper, Mo. Fan attachment for doors. No. 941,921; Nov. 30; Sp. p. 7631; Gaz. vol. 148; p. 1285.
- Hatfield, C. B., Jr., Oshkosh, Wis. Automobile driving mechanism. No. 943,744; Dec. 21; Sp. p. 3695; Gaz. vol. 149; p. 642.
- Hatfield, C. B., Jr., Oshkosh, Wis. Automobile driving mechanism. No. 943,745; Dec. 21; Sp. p. 3698; Gaz. vol. 149; p. 643.
- Hatfield, C. B., Jr., Oshkosh, Wis. Automobile driving mechanism. No. 943,746; Dec. 21; Sp. p. 3701; Gaz. vol. 149; p. 643.
- Hatfield, S. R., Hector, Minn. Shoe-cleaner. No. 933,303; Sept. 7; Sp. p. 615; Gaz. vol. 146; p. 95.
- Hatfield, W. B., Sheffield, England. Metal handle for table-cutlery. No. 928,515; July 20; Sp. p. 3772; Gaz. vol. 144; p. 662.
- Hatfield, W. M. (See Jay, W. N., assignor.)
- Hatfield, W. R., Meskill, Wash. Rear sight for rifles. No. 943,542; Dec. 14; Sp. p. 3235; Gaz. vol. 149; p. 545.
- Hathaway, D. C., Sheldon, Ill. Internal-combustion engine. No. 944,362; Dec. 28; Sp. p. 4995; Gaz. vol. 149; p. 879.
- Hathaway, E. C. (See Longmire, E. A., assignor.)
- Hathaway, E. F., Dorchester, Mass. Caliper-gage. No. 931,759; Aug. 24; Sp. p. 4524; Gaz. vol. 145; p. 787.
- Hathaway, G. H., Chicago, Ill. Filtering mechanism. No. 918,674; Apr. 20; Sp. p. 3557; Gaz. vol. 141; p. 634.
- Hathcox, A. J., Durant, Okla. Nut-lock. No. 923,264; June 1; Sp. p. 315; Gaz. vol. 143; p. 49.
- Hathcox, A. J., Durant, Okla. Combination-tool. No. 926,410; June 29; Sp. p. 6938; Gaz. vol. 143; p. 1222.
- Hatmaker, J. R., Paris, France. Drying milk. No. 920,952; May 11; Sp. p. 1760; Gaz. vol. 142; p. 312.
- Hattosy, C., Passaic, N. J. Non-refillable bottle. No. 944,092; Dec. 21; Sp. p. 4421; Gaz. vol. 149; p. 762.
- Hattamer, J., and A. Kuhle, West New York, N. J., assignors to Hardman, Peck & Company, New York, N. Y. Player-grand pedal-action. No. 936,998; Oct. 12; Sp. p. 2892; Gaz. vol. 147; p. 482.
- Hattersley, G. A., Norwood, assignor to Victor Safe & Lock Co., Cincinnati, Ohio. Safe-closing means. No. 916,704; Mar. 30; Sp. p. 6181; Gaz. vol. 140; p. 1107.
- Hattersley, G. A., Norwood, assignor to Victor Safe & Lock Company, Cincinnati, Ohio. Safe structure. No. 912,473; Feb. 16; Sp. p. 2988; Gaz. vol. 139; p. 540.
- Hattersley, G. A., Norwood, assignor to Victor Safe & Lock Company, Cincinnati, Ohio. Device for forming molds to produce screw-threaded castings. No. 931,760; Aug. 24; Sp. p. 4526; Gaz. vol. 145; p. 787.
- Hatton, E. (See Smalley and Hatton.)
- Hatton, G., Saltwells House, near Brierley Hill, England. Gas-producer. No. 912,373; Feb. 16; Sp. p. 2787; Gaz. vol. 139; p. 507.
- Hatton, G., Saltwells House, near Brierley Hill, England. Gas-producer. No. 925,634; June 22; Sp. p. 5308; Gaz. vol. 143; p. 933.
- Haubenreisser, O. A., Little Rock, Ark. Sickle-sharpener. No. 930,284; Aug. 3; Sp. p. 1342; Gaz. vol. 145; p. 222.
- Hauber, C. (See Potts and Hauber.)
- Hauberg, A. M., Hillsdale, Ill. Dish-washing machine. No. 937,937; Oct. 26; Sp. p. 4876; Gaz. vol. 147; p. 842.
- Haubner, H., Marienbad, Austria-Hungary. Tuning-peg for stringed instruments. No. 918,543; Apr. 20; Sp. p. 3232; Gaz. vol. 141; p. 589.
- Hauck, J., Denison, Tex. Fumigator. No. 922,582; May 25; Sp. p. 5115; Gaz. vol. 142; p. 907.
- Hauck, J., Rondo, assignor of one-half to E. Weigel, Hebron, N. D. Nut-lock. No. 920,055; Apr. 27; Sp. p. 6626; Gaz. vol. 141; p. 1127.
- Hauer, A., Chattanooga, Tenn. Hook. No. 926,697; June 29; Sp. p. 7477; Gaz. vol. 143; p. 1318.
- Hauer, E. E., assignor to Lagonda Manufacturing Company, Springfield, Ohio. Rotary motor. No. 940,150; Nov. 16; Sp. p. 3771; Gaz. vol. 148; p. 643.
- Hauerstein, L., Jersey City, N. J. Type-writer. No. 942,825; Dec. 7; Sp. p. 1628; Gaz. vol. 149; p. 268.
- Hauff, F., Quincy, Ill. Sign. No. 926,326; June 29; Sp. p. 6794; Gaz. vol. 143; p. 1195.
- Hauge, O., assignor of one-half to H. E. Berg, St. Paul, Minn. Trimmer for pastry-cones. No. 909,999; Jan. 19; Sp. p. 3163; Gaz. vol. 138; p. 584.
- Haugen, K. I. (See Staal, S. E., assignor.)
- Haughton, F. A., New York, N. Y. Steam-generator, superheater, and feed-water heater. No. 943,189; Dec. 14; Sp. p. 2489; Gaz. vol. 149; p. 422.
- Haughton, W. R., Sealdah, Calcutta, India. Cast-iron sleeper. No. 944,135; Dec. 21; Sp. p. 4522; Gaz. vol. 149; p. 776.
- Haun, J. P. (See Parker, M. O., assignor.)
- Hausburg, O. E., New York, N. Y. Watchman's-clock-installment. No. 912,957; Feb. 16; Sp. p. 3983; Gaz. vol. 139; p. 701.
- Hauser, J., Scottsdale, Pa. Emergency-brake. No. 917,598; Apr. 6; Sp. p. 1240; Gaz. vol. 141; p. 218.
- Hauser, J., Scottsdale, Pa. Emergency-brake for street-cars. No. 925,904; June 22; Sp. p. 5911; Gaz. vol. 143; p. 1021.
- Häuser, R., Oberstein-on-the-Nahe, Germany. Device for the prevention of railway accidents. No. 937,438; Oct. 19; Sp. p. 3852; Gaz. vol. 147; p. 656.
- Hauser, S. (See Hauser and Shepherd, assignors.)
- Hauser, S., and E. Shepherd, assignors, by mesne assignments, to S. Hauser, New York, N. Y. Safety-razor. No. 935,979; Oct. 5; Sp. p. 808; Gaz. vol. 147; p. 120.
- Haushalter, H. P., Milwaukee, Wis. Motor-vehicle. No. 926,411; June 29; Sp. p. 6939; Gaz. vol. 143; p. 1222.
- Hauble, M., Philadelphia, Pa. Fender. No. 917,599; Apr. 6; Sp. p. 1241; Gaz. vol. 141; p. 218.
- Hausmann, G. F., Washington, Mo. Preparing corncobs in the manufacture of pipes. No. 909,087; Jan. 5; Sp. p. 1342; Gaz. vol. 138; p. 215.
- Hauss, D. J., Aurora, Ind. Magnetic electric-light holder. No. 921,108; May 11; Sp. p. 2071; Gaz. vol. 142; p. 365.
- Hauss, D. J., Aurora, Ind. Electromagnet. No. 930,177; Aug. 3; Sp. p. 1167; Gaz. vol. 145; p. 190.
- Haussler, J. C., Pottsville, Pa. Silk-feeding hook attachment for sewing-machine needle-bars. No. 927,795; July 13; Sp. p. 2270; Gaz. vol. 144; p. 392.
- Hautsch, A. P., Fresno, Cal. Cabinet. No. 923,837; June 8; Sp. p. 1672; Gaz. vol. 143; p. 277.
- Havard, O. D., Scranton, Pa. Device for measuring granular materials. No. 943,405; Dec. 14; Sp. p. 2942; Gaz. vol. 149; p. 496.
- Havassy, J., Copperhill, Tenn. Combined pocket match-box and cigar-cutter. No. 928,447; July 20; Sp. p. 3644; Gaz. vol. 144; p. 642.
- Havecotte, J. H., and M. Stanley, Somerville, Tex. Match-scratcher. No. 944,363; Dec. 28; Sp. p. 4998; Gaz. vol. 149; p. 830.
- Haven, W. S., Racine, Wis. Floor-dressing machine. No. 944,862; Dec. 28; Sp. p. 6117; Gaz. vol. 149; p. 1051.
- Haven, W. S., Racine, Wis. Floor-dressing machine. No. 944,963; Dec. 28; Sp. p. 6303; Gaz. vol. 149; p. 1083.
- Havener, A. R., Waltham, Mass., assignor to J. L. Thomson Mfg. Co. Machine for setting rivets. No. 931,062; Aug. 17; Sp. p. 3036; Gaz. vol. 145; p. 533.
- Havener, A. R., assignor to W. P. Bartel, Waltham, Mass. Machine for attaching buttons, &c., to fabric. No. 937,150; Oct. 19; Sp. p. 3218; Gaz. vol. 147; p. 563.

*Alphabetical list of patentees—Continued.*

- Havener, J. A., *et al.* (See Ruth, J. P., assignor.)
- Havenhill, A. A., Chicago, Ill. Frame for show-cases. No. 936,451; Oct. 12; Sp. p. 1803; Gaz. vol. 147; p. 299.
- Havens, J. D. (See Moody, T. J., assignor.)
- Havens, J. D., and H. M. Page; said Page assignor of one-half to R. M. Havens, Kansas City, Mo. Duplicating or printing machine. No. 935,604; Sept. 28; Sp. p. 5300; Gaz. vol. 146; p. 930.
- Havens, P. M. (See Higgins, A. G., assignor.)
- Havens, R. M. (See Havens and Page, assignors.)
- Havens, W. B., Hartford City, Ind. Corn-husking apparatus. No. 913,130; Feb. 23; Sp. p. 4343; Gaz. vol. 139; p. 786.
- Havenstrite, C. D., Newark, N. J. Apparatus for making and harvesting plate-ice. No. 934,524; Sept. 21; Sp. p. 3124; Gaz. vol. 146; p. 545.
- Havenstrite, C. D., Newark, N. J. Apparatus for making can-ice. No. 943,226; Dec. 14; Sp. p. 2563; Gaz. vol. 149; p. 435.
- Havenstrite, D. J., Newark, N. J. Plate-ice making and harvesting apparatus. No. 936,452; Oct. 12; Sp. p. 1804; Gaz. vol. 147; p. 300.
- Havenstrite, D. J., Newark, N. J. Apparatus for making ice. No. 938,853; Nov. 2; Sp. p. 859; Gaz. vol. 148; p. 139.
- Havenstrite, D. J., Newark, N. J. Apparatus for harvesting and cutting plate-ice. No. 940,013; Nov. 16; Sp. p. 3440; Gaz. vol. 148; p. 594.
- Havenstrite, D. J., Newark, N. J. Ice-making apparatus. No. 941,414; Nov. 30; Sp. p. 6570; Gaz. vol. 148; p. 1114.
- Havenstrite, D. J., Newark, N. J., assignor to Centerfreze Ice Process Company. Making and harvesting plate-ice. No. 911,238; Feb. 2; Sp. p. 431; Gaz. vol. 139; p. 74.
- Haverhill Channeling Machine Company. (See Webster E. A., assignor.)
- Havely, P. J., Swissvale, Pa. Metal-working machine. No. 933,981; Sept. 14; Sp. p. 2071; Gaz. vol. 146; p. 341.
- Haw, C. K., Kansas City, Kans. Burial-vault. No. 917,943; Apr. 13; Sp. p. 1980; Gaz. vol. 141; p. 360.
- Hawbolt, C. H., Portland, Me. Biscuit-cutter. No. 929,215; July 27; Sp. p. 5200; Gaz. vol. 144; p. 922.
- Hawes, B. N. (See Wygal and Burgess, assignors.)
- Hawes, B. N., Washington, D. C. Butter-merger. No. 920,738; May 4; Sp. p. 1310; Gaz. vol. 142; p. 211.
- Hawes, B. N., Washington, D. C. Apparatus for merging milk and butter. No. 934,169; Sept. 14; Sp. p. 2454; Gaz. vol. 146; p. 404.
- Hawes, B. N., assignor to himself and T. W. Johnson, Washington, D. C. Apparatus for merging butter and milk. No. 933,558; Sept. 7; Sp. p. 1225; Gaz. vol. 146; p. 179.
- Hawes, D. M. A. G. (See McCreedy and Hawes.)
- Hawes, F. B., Lowell, Mass. Suspender-check. No. 939,687; Nov. 9; Sp. p. 2741; Gaz. vol. 148; p. 452.
- Hawes, H. E., Manchester, N. H. Multiple drill. No. 925,474; June 22; Sp. p. 4988; Gaz. vol. 143; p. 880.
- Hawk, C. (See Hemingray and Hawk.)
- Hawk, E. I., Divide, Colo. Pencil-box. No. 916,443; Mar. 30; Sp. p. 5645; Gaz. vol. 140; p. 1023.
- Hawk, O. L., Yorktown, Ind. Potato cutter and planter. No. 944,430; Dec. 28; Sp. p. 5144; Gaz. vol. 149; p. 903.
- Hawkes, A. H., New York, N. Y. Illuminated sign. No. 911,557; Feb. 2; Sp. p. 1024; Gaz. vol. 139; p. 177.
- Hawkes, C. W., New York, N. Y. Water-jacket. No. 908,566; Jan. 5; Sp. p. 281; Gaz. vol. 138; p. 47.
- Hawkes, C. W., New York, N. Y. Water-jacket. No. 908,567; Jan. 5; Sp. p. 283; Gaz. vol. 138; p. 47.
- Hawkes, C. W., Allentown, Pa. Water-jacket. No. 918,047; Apr. 13; Sp. p. 2210; Gaz. vol. 141; p. 398.
- Hawkes, C. W., Allentown, Pa. Water-jacket. No. 921,542; May 11; Sp. p. 2969; Gaz. vol. 142; p. 510.
- Hawkes, F. W., New York, N. Y. Holder for needles and the like. No. 922,893; May 25; Sp. p. 5783; Gaz. vol. 142; p. 1009.
- Hawkins, B. (See Carrico and Hawkins.)
- Hawkins, B. H. (See McAllister, Anderson, and Hawkins.)
- Hawkins, C. J., Larned, Kans. Rack. No. 938,854; Nov. 2; Sp. p. 861; Gaz. vol. 148; p. 139.
- Hawkins, C. W., *et al.* (See Freer, P. M., assignor.)
- Hawkins, D. S. (See Ackerman, C. F., assignor.)
- Hawkins, F. F., Troy, N. Y. Flushing device. No. 927,796; July 13; Sp. p. 2271; Gaz. vol. 144; p. 392.
- Hawkins, F. H., and A. Bourgeois, Lynn, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Inseam-trimming machine. No. 939,498; Nov. 9; Sp. p. 2329; Gaz. vol. 148; p. 386.
- Hawkins, F. M., Mansfield, Ohio. Extension-wrench for operating tube-expanders or the like. No. 937,526; Oct. 19; Sp. p. 4043; Gaz. vol. 147; p. 687.
- Hawkins, J. B., Slater, Mo. Stock-fountain. No. 914,570; Mar. 9; Sp. p. 1928; Gaz. vol. 140; p. 329.
- Hawkins, J. C., Springfield, Ill. Winding-indicator. No. 941,143; Nov. 23; Sp. p. 5959; Gaz. vol. 148; p. 1002.
- Hawkins, J. W., Munfordville, Ky. Gate. No. 936,719; Oct. 12; Sp. p. 2354; Gaz. vol. 147; p. 391.
- Hawkins, L. A., Schenectady, N. Y., assignor to General Electric Company. Control of railway apparatus. No. 919,573; Apr. 27; Sp. p. 5626; Gaz. vol. 141; p. 966.
- Hawkins, L. A., Schenectady, N. Y., assignor to General Electric Company. Signal system. No. 923,170; June 1; Sp. p. 105; Gaz. vol. 143; p. 17.
- Hawkins, L. A., Schenectady, N. Y., assignor to General Electric Company. Rotary converter for direct currents. No. 927,142; July 6; Sp. p. 922; Gaz. vol. 144; p. 149.
- Hawkins, L. A., Schenectady, N. Y., assignor to General Electric Company. Block-signal system. No. 929,591; July 27; Sp. p. 5943; Gaz. vol. 144; p. 1045.
- Hawkins, L. A., Schenectady, N. Y., assignor to General Electric Company. Block-signal system. No. 937,439; Oct. 19; Sp. p. 3852; Gaz. vol. 147; p. 656.
- Hawkins, L. A., Schenectady, N. Y., assignor to General Electric Company. Block-signal system. No. 937,440; Oct. 19; Sp. p. 3856; Gaz. vol. 147; p. 657.
- Hawkins, L. A., Schenectady, N. Y., assignor to General Electric Company. Block-signal system. No. 937,737; Oct. 19; Sp. p. 4448; Gaz. vol. 147; p. 755.
- Hawkins, L. A., Schenectady, N. Y., assignor to General Electric Company. Block-signal system. No. 937,738; Oct. 19; Sp. p. 4452; Gaz. vol. 147; p. 755.
- Hawkins, L. A., Schenectady, N. Y., assignor to General Electric Company. Signal. No. 941,144; Nov. 23; Sp. p. 5961; Gaz. vol. 148; p. 1003.
- Hawkins, R. D. (See Emerson, Hawkins, and Kitchen.)
- Hawkinson, P. E., Minneapolis, Minn. Dust-pan. No. 931,867; Aug. 24; Sp. p. 4742; Gaz. vol. 145; p. 821.
- Hawkinson, S. O., *et al.* (See Ruehs, C. L., assignor.)
- Hawks, E. J. (See Hawks, H. S., assignor.)
- Hawks, H. S., Colorado Springs, Colo. Flushing-tank. No. 909,789; Jan. 12; Sp. p. 2732; Gaz. vol. 138; p. 481.
- Hawks, H. S., assignor to E. J. Hawks, Colorado Springs, Colo. Collar-button. No. 912,958; Feb. 16; Sp. p. 3985; Gaz. vol. 139; p. 702.
- Hawks, M. L., New York, N. Y. Vegetable parer and cutter. No. 911,239; Feb. 2; Sp. p. 433; Gaz. vol. 139; p. 74.
- Hawks, M. L., New York, N. Y. Sharpening device. No. 918,544; Apr. 20; Sp. p. 3233; Gaz. vol. 141; p. 590.
- Hawks, M. L., New York, N. Y. Gyroscopic top. No. 918,545; Apr. 20; Sp. p. 3234; Gaz. vol. 141; p. 590.
- Hawks, M. L., New York, N. Y. Gyroscopic top. No. 919,349; Apr. 27; Sp. p. 5125; Gaz. vol. 141; p. 889.
- Hawks, M. L., New York, N. Y. Vegetable parer and cutter. (Reissue.) No. 12,965; June 1; Sp. p. 1585; Gaz. vol. 143; p. 236.
- Hawks, M. L., New York, N. Y. Gyroscopic top. No. 929,669; Aug. 3; Sp. p. 51; Gaz. vol. 145; p. 11.
- Hawks, M. L., New York, N. Y. Knife-sharpener. No. 942,172; Dec. 7; Sp. p. 318; Gaz. vol. 149; p. 48.
- Hawks, W., assignor of one-half to D. H. Chisholm, Chicago, Ill. Hot-water heater. No. 924,779; June 15; Sp. p. 3624; Gaz. vol. 143; p. 622.
- Hawley, C. G., assignor, by mesne assignments, to Konkling Company, Chicago, Ill. Combined driving and reversing mechanism. No. 911,978; Feb. 9; Sp. p. 1951; Gaz. vol. 139; p. 342.
- Hawley, C. G., and E. K. Baker, Chicago, Ill. Pneumatic-tire mounting. No. 915,954; Mar. 23; Sp. p. 4714; Gaz. vol. 140; p. 837.
- Hawley, C. G., and E. K. Baker, Chicago, Ill. Combined muffler cut-out and horn-valve. No. 929,944; Aug. 3; Sp. p. 684; Gaz. vol. 145; p. 109.
- Hawley, C. G., and E. K. Baker, Chicago, Ill. Muffler cut-out for automobiles. No. 931,011; Aug. 10; Sp. p. 2897; Gaz. vol. 145; p. 487.
- Hawley, C. T., assignor to Simplex Time Recorder Company, Gardner, Mass. Workman's time-recorder. No. 917,761; Apr. 13; Sp. p. 1583; Gaz. vol. 141; p. 299.
- Hawley, C. T., assignor to Simplex Time Recorder Company, Gardner, Mass. Workman's time-recorder. No. 920,866; May 4; Sp. p. 1564; Gaz. vol. 142; p. 253.
- Hawley, L. F., Hartford, Conn. Coin-receptacle. No. 929,216; July 27; Sp. p. 5201; Gaz. vol. 144; p. 922.
- Hawley, M. A., Elk Grove, Cal. Invalid's table. No. 928,752; July 20; Sp. p. 4254; Gaz. vol. 144; p. 741.
- Hawley, W. D., Syracuse, N. Y. Time-record sheet. No. 923,265; June 1; Sp. p. 316; Gaz. vol. 143; p. 50.
- Haworth, T. J., Briggs, and W. Ayrey, assignors to R. H. Place, Rishton, and G. Crawshaw, Clayton-le-Moors, England. Loom-dobby. No. 942,826; Dec. 7; Sp. p. 1640; Gaz. vol. 149; p. 268.
- Haworth, W. E., Ridgeland, Ill. Burial-vault. No. 931,299; Aug. 17; Sp. p. 3562; Gaz. vol. 145; p. 614.
- Hawthorne, E. A., assignor to Hawthorne & Sheble Manufacturing Company, Philadelphia, Pa. Sectional horn for talking-machines. No. 935,980; Oct. 5; Sp. p. 809; Gaz. vol. 147; p. 120.
- Hawthorne & Sheble Manufacturing Company. (See Edmonds, D. S., assignor.)
- Hawthorne & Sheble Manufacturing Company. (See Haile, L. T., assignor.)



*Alphabetical list of patentees—Continued.*

- Hawthorne & Sheble Manufacturing Company. (See Hawthorne, E. A., assignor.)  
Hawthorne & Sheble Manufacturing Company. (See Kraemer, T., assignor.)  
Hawthorne & Sheble Manufacturing Company. (See Sheble, H., assignor.)  
Hawthorne & Sheble Manufacturing Company. (See Sheppy, F., assignor.)  
Hawthorne & Sheble Manufacturing Company. (See Valiquet, L. P., assignor.)  
Hawver, A. W. (See Munsell, C. G., assignor.)  
Hay, A. B. (See Ferguson and Hay.)  
Hay, J., New York, N. Y. Manufacture of anvils. No. 922,475; May 25; Sp. p. 4897; Gaz. vol. 142; p. 872.  
Hay, J. A., London, England, assignor to American Electric Furnace Company, New York, N. Y. Electric furnace. No. 932,469; Aug. 31; Sp. p. 6010; Gaz. vol. 145; p. 1043.  
Hay, J. D., assignor of one-half to W. R. Donaldson, Chicago, Ill. Explosive-engine. No. 942,140; Dec. 7; Sp. p. 251; Gaz. vol. 149; p. 38.  
Hay Ladder Lock Company. (See Kidd, G. E., assignor.)  
Hay, P. S., Montgomery, Ala. Toy. No. 913,381; Feb. 23; Sp. p. 4861; Gaz. vol. 139; p. 870.  
Hay, W. B., Portland, Me. Milk-jar cap. No. 932,779; Aug. 31; Sp. p. 6689; Gaz. vol. 145; p. 1148.  
Hay, W. L., Franklin, Tenn. Pea-huller. No. 933,559; Sept. 7; Sp. p. 1227; Gaz. vol. 146; p. 180.  
Hayden, A. C., Brockton, Mass. Photographic-printing frame. No. 915,955; Mar. 23; Sp. p. 4717; Gaz. vol. 140; p. 837.  
Hayden, A. C., Montello, Mass. Shoe-last. No. 941,451; Nov. 30; Sp. p. 6639; Gaz. vol. 148; p. 1125.  
Hayden, F. A., Pilot Point, Tex. Cabinet. No. 921,543; May 11; Sp. p. 2971; Gaz. vol. 142; p. 510.  
Hayden, G. W. (See Olson and Hayden.)  
Hayden, S. R., St. Joseph, Mo. Cigar-holder. No. 918,446; Apr. 13; Sp. p. 3006; Gaz. vol. 141; p. 529.  
Hayden, W. S., Pueblo, Colo. Grass-cutting device. No. 939,837; Nov. 9; Sp. p. 3055; Gaz. vol. 148; p. 504.  
Haydon, J. R., Chicago, Ill. Device for locking types on type-carrying members of printing-presses and the like. No. 935,758; Oct. 5; Sp. p. 288; Gaz. vol. 147; p. 46.  
Haydu, S., Canaanville, Ohio. Reeking-chair. No. 932,389; Aug. 24; Sp. p. 5814; Gaz. vol. 145; p. 994.  
Hayes, G. G., Glenwood Springs, Colo. Cushion-tire. No. 940,460; Nov. 16; Sp. p. 4484; Gaz. vol. 148; p. 749.  
Hayes, A. (See Hansen and Hayes.)  
Hayes, A., New York, N. Y., assignor, by mesne assignments, to William Sauntry Metals Company. Solution for treatment of iron or steel. No. 913,657; Feb. 23; Sp. p. 5466; Gaz. vol. 139; p. 962.  
Hayes, C. C., New York, N. Y. Vehicle-spring. No. 927,797; July 13; Sp. p. 2273; Gaz. vol. 144; p. 393.  
Hayes, C. W. (See Goad and Hayes.)  
Hayes, D. J., Houston, Tex. Rice-huller. No. 918,048; Apr. 13; Sp. p. 2211; Gaz. vol. 141; p. 398.  
Hayes, G. W. (See Puffer and Hayes.)  
Hayes, J. A. J., Manchester, England. Printing machinery. (Reissue.) No. 13,051; Dec. 7; Sp. p. 1780; Gaz. vol. 149; p. 287.  
Hayes, J. A. J., Manchester, England. Printing machinery. No. 909,591; Jan. 12; Sp. p. 2336; Gaz. vol. 138; p. 414.  
Hayes, J. D., New York, N. Y. Calculating-machine. No. 925,183; June 15; Sp. p. 4444; Gaz. vol. 143; p. 758.  
Hayes, J. D., Folsom, N. Mex. Ter. Folding spur. No. 931,063; Aug. 17; Sp. p. 3042; Gaz. vol. 145; p. 533.  
Hayes, J. H., Onaway, Mich. Self-propelled sleigh. No. 939,194; Nov. 2; Sp. p. 1593; Gaz. vol. 148; p. 258.  
Hayes, J. J. (See Munson, A. E., assignor.)  
Hayes, J. W., *et al.* (See Campbell, N., assignor.)  
Hayes, T. F., New York, N. Y. Car fender or guard. No. 921,831; May 18; Sp. p. 3597; Gaz. vol. 142; p. 634.  
Hayes, T. H., Denver, Colo. Combined fluid header and expander. No. 933,707; Sept. 7; Sp. p. 1523; Gaz. vol. 146; p. 230.  
Hayes, W. E., Omaha, Nebr. Electric water-heater. No. 926,185; June 29; Sp. p. 6505; Gaz. vol. 143; p. 1151.  
Hayes, W. P., New Haven, Conn. Amusement device. No. 920,567; May 4; Sp. p. 963; Gaz. vol. 142; p. 156.  
Hayes, W. R., Campbellsburg, Ind. Display-rack. No. 919,574; Apr. 27; Sp. p. 5629; Gaz. vol. 141; p. 967.  
Haymond, W. O., and J. O. Potter, Muncie, Ind. Electrical controlling mechanism. No. 910,058; Jan. 19; Sp. p. 3273; Gaz. vol. 138; p. 604.  
Hayn, G. (See Koch and Hayn.)  
Hayne, E., Bisbee, Ariz. Inflating device for tires. No. 939,020; Nov. 2; Sp. p. 1230; Gaz. vol. 148; p. 196.  
Hayne, L. (See Pike and Hayne.)  
Hayner, G. B., Canon City, Colo. Incubator. No. 913,957; Mar. 2; Sp. p. 628; Gaz. vol. 140; p. 99.  
Hayner, H., *et al.* (See Mill, A., assignor.)  
Hayner, W. B., *et al.* (See Mill, A., assignor.)  
Haynes, C. M., Newark, N. J. Embroidery-stiletto. No. 917,295; Apr. 6; Sp. p. 696; Gaz. vol. 141; p. 119.  
Haynes, C. M., assignor to A. S. Frambach, Newark, N. J. Bowl-holder. No. 927,724; July 13; Sp. p. 2128; Gaz. vol. 144; p. 369.  
Haynes, D., Sealy, Tex. Bat-making machine. No. 930,285; Aug. 3; Sp. p. 1343; Gaz. vol. 145; p. 122.  
Haynes, F. D., and J. A. Cocker, Joliet, assignors to American Steel & Wire Company, Chicago, Ill. Fence-stretcher. No. 912,845; Feb. 16; Sp. p. 3792; Gaz. vol. 139; p. 667.  
Haynes, J., assignor to C. A. Bradshaw, W. E. Cuthbertson, Manchester, and T. S. Sheldrake, Ilford, England. Wheel-rim for pneumatic tires. No. 944,964; Dec. 28; Sp. p. 6309; Gaz. vol. 149; p. 1083.  
Haynes, M., Nutterville, W. Va. Clock attachment. No. 910,378; Jan. 19; Sp. p. 3978; Gaz. vol. 138; p. 715.  
Haynes, R. E., trustee. (See Hardy, F., assignor.)  
Haynes, R. E., assignor of one-half to H. T. Trantham, Salisbury, N. C. Cotton-press. No. 919,861; Apr. 27; Sp. p. 6231; Gaz. vol. 141; p. 1063.  
Haynes, T. S., Bay City, Tex. Threshing-machine. No. 933,035; Aug. 31; Sp. p. 7172; Gaz. vol. 145; p. 1231.  
Haynes, W. L., Cynwyd, assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Machine-tool. No. 915,856; Mar. 23; Sp. p. 4534; Gaz. vol. 140; p. 806.  
Hays, J. B., Chester township, Poweshiek county, Iowa. Clothes-stick. No. 932,276; Aug. 24; Sp. p. 5613; Gaz. vol. 145; p. 958.  
Hays, L. H. (See Oppenheimer, G. A., assignor.)  
Hays, L. H., Cleveland, Ohio. Attachment for phonographs. No. 936,534; Oct. 12; Sp. p. 1977; Gaz. vol. 147; p. 326.  
Hays, R. S. (See Dotter and Hays.)  
Hayssen, A. H. (See Hayssen, H. and A. H.)  
Hayssen, H. and A. H., Sheboygan, Wis. Nail feeding and driving device. No. 926,412; June 29; Sp. p. 6942; Gaz. vol. 143; p. 1223.  
Hayton, A. (See Densmore and Hayton.)  
Hayward, J. B. (See Heyne, Hayward, and McCarthy.)  
Hayward, M. P., Quincy, Mass. Pneumatic buffer for self-propelled vehicles. No. 914,831; Mar. 9; Sp. p. 2474; Gaz. vol. 140; p. 414.  
Hayward, O. H., Falconer, N. Y. Cylindrical sander. No. 940,431; Dec. 28; Sp. p. 5147; Gaz. vol. 149; p. 903.  
Haywood, D. H., New York, N. Y., assignor of one-half to M. Hartog, Paterson, N. J. Garment-supporter. No. 942,323; Dec. 7; Sp. p. 627; Gaz. vol. 149; p. 100.  
Haywood, H. O., Savannah, Ga. Post-office box. No. 942,203; Dec. 7; Sp. p. 378; Gaz. vol. 149; p. 57.  
Haywood, M. B., Richmond, Ark. Device for preparing horses' hoofs for shoeing. No. 944,432; Dec. 28; Sp. p. 5149; Gaz. vol. 149; p. 903.  
Haywood, W. A., Denver, Colo. Tag holder and stringer and loop-knotter therefor. No. 943,972; Dec. 21; Sp. p. 4166; Gaz. vol. 149; p. 721.  
Hazard, A. A., Cedar Rapids, assignor to W. S. Hazard, Jr., Des Moines, Iowa. Window-shade bracket. No. 937,027; Oct. 12; Sp. p. 2963; Gaz. vol. 147; p. 492.  
Hazard, W. S., Jr. (See Hazard, A. A., assignor.)  
Hazelhurst, W. H. (See Shanley, W. E., assignor.)  
Hazelrigg, A. E., *et al.* (See Lee, H. V., O. S., and C. F., assignors.)  
Hazelrigg, R., Oakland, Cal. Insect-trap. No. 942,204; Dec. 7; Sp. p. 379; Gaz. vol. 149; p. 58.  
Hazeltime, R. H., Ithaca, N. Y. Machine for reseating valves. No. 918,049; Apr. 13; Sp. p. 2214; Gaz. vol. 141; p. 398.  
Hazeltime, R. H., New York, N. Y. Valve-grinding device. No. 918,050; Apr. 13; Sp. p. 2217; Gaz. vol. 141; p. 399.  
Hazelton, H. (See Brinckerhoff, F. M., assignor.)  
Hazelton, W. S., Prosser, Wash. Wire-fence builder. No. 925,905; June 22; Sp. p. 5912; Gaz. vol. 143; p. 1021.  
Hazen, H. L., Edgewater, N. J. Dumping-wagon. No. 939,130; Nov. 2; Sp. p. 1446; Gaz. vol. 148; p. 235.  
Hazel, J. D., Franklin, and L. L. Lord, Meadville, Pa. Pipe-coupling. No. 915,956; Mar. 23; Sp. p. 4719; Gaz. vol. 140; p. 837.  
Hazzard, L. S., East Orange, N. J. Clock-pendulum. No. 930,664; Aug. 10; Sp. p. 2142; Gaz. vol. 145; p. 374.  
Hazzard, W., Berlin, N. H. Detachable hitching device. No. 937,800; Oct. 26; Sp. p. 4592; Gaz. vol. 147; p. 796.  
Head, B. W., Westminster, London, England. Apparatus for charging open-hearth furnaces. No. 913,658; Feb. 23; Sp. p. 5467; Gaz. vol. 139; p. 962.  
Head, B. W., Westminster, London, England. Ingot-stripper. No. 922,424; May 18; Sp. p. 4771; Gaz. vol. 142; p. 827.  
Head, E. F., Sudbury, Ontario, Canada. System for ventilating and purifying sewers and the like. No. 913,131; Feb. 23; Sp. p. 4345; Gaz. vol. 139; p. 786.  
Head, G. M., St. Louis, Mo. Dumping-wagon. No. 928,753; July 20; Sp. p. 4255; Gaz. vol. 144; p. 741.  
Head, R. A. (See Watkins and Head.)

*Alphabetical list of patentees—Continued.*

- Head, R., New York, N. Y., assignor, by mesne assignments, to National Lac Casein Co., Portland, Me. Separating casein. No. 917,062; Apr. 6; Sp. p. 202; Gaz. vol. 141; p. 38.
- Head, R., assignor to R. L. Watkins, New York, N. Y. Rheostat. No. 944,785; Dec. 28; Sp. p. 5936; Gaz. vol. 149; p. 1024.
- Headley, E. C., Dunnell, Minn. Winker-brace fastener. No. 912,313; Feb. 16; Sp. p. 2656; Gaz. vol. 139; p. 487.
- Headley and Farmer Company. (See Teeple, A. H., assignor.)
- Headley, G. C., Hastings, Colo. Rerailer. No. 932,985; Aug. 31; Sp. p. 7056; Gaz. vol. 145; p. 1213.
- Headly, W. L., Colwyn, Pa. Flat-iron stand. No. 918,148; Apr. 13; Sp. p. 2412; Gaz. vol. 141; p. 432.
- Headson, F. A., La Fayette, Ind. Metallic compound or composition of matter and making the same. No. 933,036; Aug. 31; Sp. p. 7174; Gaz. vol. 145; p. 1231.
- Headson, F. A., La Fayette, Ind. Nut-lock. No. 943,826; Dec. 21; Sp. p. 3855; Gaz. vol. 149; p. 671.
- Heagerty, J., Oswego, N. Y. Barrel-press. No. 919,720; Apr. 27; Sp. p. 5919; Gaz. vol. 141; p. 1016.
- Heald, J., Jamestown, N. Y. Flushing-tank. No. 908,667; Jan. 5; Sp. p. 508; Gaz. vol. 138; p. 79.
- Heald, J. H., Jr., Chicago, Ill., assignor to American Bridge Company, Pittsburgh, Pa. Punching-machine. No. 933,560; Sept. 7; Sp. p. 1229; Gaz. vol. 146; p. 180.
- Heales, G., and W. R. Neall, Baltimore, Md. Automobile advertising device. No. 926,186; June 29; Sp. p. 6507; Gaz. vol. 143; p. 1151.
- Healey, T., Lowell, Mass. Belt-cleaner. No. 936,887; Oct. 12; Sp. p. 2681; Gaz. vol. 147; p. 447.
- Healy, D. D., *et al.* (See Norstrom, J. K., assignor.)
- Healy, P., New York, N. Y. Switch-throwing device. No. 915,857; Mar. 23; Sp. p. 4536; Gaz. vol. 140; p. 806.
- Heaney, W. C., Portland, Oreg. Drawer-stop. No. 915,434; Mar. 16; Sp. p. 3661; Gaz. vol. 140; p. 637.
- Heap, W. L., assignor to William Heap & Sons, Grand Haven, Mich. Closet-seat. No. 916,553; Mar. 30; Sp. p. 5906; Gaz. vol. 140; p. 1059.
- Heard, G. M. D., Painesville, Ohio. Ratchet-brace. No. 935,256; Sept. 28; Sp. p. 4586; Gaz. vol. 146; p. 816.
- Heard, W. H., London, Ontario, Canada. Strainer. No. 923,651; June 1; Sp. p. 1199; Gaz. vol. 143; p. 184.
- Hearing, J. L., Columbus, Ohio. Floor-scraper. No. 909,406; Jan. 12; Sp. p. 1970; Gaz. vol. 138; p. 351.
- Hearn, C. A., and W. H. Feddejohn, Decatur, Ind. Intermediate telephone-connector. No. 941,519; Nov. 30; Sp. p. 6778; Gaz. vol. 148; p. 1148.
- Hearn, I. S., Johnstown, Pa. Leveling-bar head. No. 928,603; July 20; Sp. p. 3965; Gaz. vol. 144; p. 691.
- Heartley, G. W., Toledo, Ohio. Wheel. No. 934,525; Sept. 21; Sp. p. 3126; Gaz. vol. 146; p. 545.
- Heaslet, J. G., Detroit, Mich., assignor to Garford Company, Elyria, Ohio. Igniter-timing device. No. 922,764; May 25; Sp. p. 5494; Gaz. vol. 142; p. 966.
- Heaslip, S. F., *et al.* (See Febiger, H. B., assignor.)
- Heath, A., Harris, Mich. Railway-tie. No. 911,979; Feb. 9; Sp. p. 1954; Gaz. vol. 139; p. 343.
- Heath, A. C., Easton, assignor, by mesne assignments, to F. M. Shaw & Son, Corporation, Brockton, Mass. Rand-forming machine. No. 915,957; Mar. 23; Sp. p. 4720; Gaz. vol. 140; p. 838.
- Heath, A. G., and J. W. Howard, Stillmore, Ga. Car-replacer. No. 935,845; Oct. 5; Sp. p. 518; Gaz. vol. 147; p. 75.
- Heath, C. A., and R. B. Martin, Brooklyn, N. Y. Insect-trap. No. 914,571; Mar. 9; Sp. p. 1930; Gaz. vol. 140; p. 329.
- Heath, H. E., Lynn, Mass., assignor to General Electric Company. Steering-gear for wheeled vehicles. No. 918,546; Apr. 20; Sp. p. 3235; Gaz. vol. 141; p. 590.
- Heath, H. E., Lynn, Mass., assignor to General Electric Company. Resistance unit. No. 918,547; Apr. 20; Sp. p. 3237; Gaz. vol. 141; p. 590.
- Heath, H. E., Lynn, Mass., assignor to General Electric Company. Rheostat. No. 919,575; Apr. 27; Sp. p. 5630; Gaz. vol. 141; p. 967.
- Heath, H. E., Lynn, Mass., assignor to General Electric Company. Resistance unit. No. 940,151; Nov. 16; Sp. p. 3773; Gaz. vol. 148; p. 643.
- Heath, J. R., Newark, N. J. Pocket-knife. No. 921,988; May 18; Sp. p. 3913; Gaz. vol. 142; p. 684.
- Heath, S. (See Lake and Heath.)
- Heath, T. D., Peabody, Kans. Wheeled cultivator or plow. No. 928,604; July 20; Sp. p. 3965; Gaz. vol. 144; p. 692.
- Heathcote, J. W., Heatherlee, Cape Colony. Cream-separating apparatus. No. 940,686; Nov. 23; Sp. p. 4976; Gaz. vol. 148; p. 849.
- Heatherrington, H. H., and C. O. Long, Bellaire, Ohio. Egg-separator. No. 941,415; Nov. 30; Sp. p. 6572; Gaz. vol. 148; p. 1114.
- Heathermon, W., Kneeland, Wis. Hoof-pad. No. 918,149; Apr. 13; Sp. p. 2413; Gaz. vol. 141; p. 432.
- Heaton, H. E., Oroville, Cal. Conveyor-belt. No. 932,015; Aug. 24; Sp. p. 5087; Gaz. vol. 145; p. 870.
- Heaton-Peninsular Button Fastener Company. (See Thayer, J. F., assignor.)
- Heaton, W. N., Des Moines, Iowa. Shaft-loop for harness. No. 912,374; Feb. 16; Sp. p. 2789; Gaz. vol. 139; p. 508.
- Heavey, H. A., Paskenta, Cal. Hauling-motor. No. 934,912; Sept. 21; Sp. p. 3887; Gaz. vol. 146; p. 675.
- Hebb Coke Drawer Company. (See Clarke, C. M., assignor.)
- Hebden, J. C. (See Daniell and Hebden.)
- Hebden, J. C., Providence, R. I., and F. H. Daniell, Franklin, N. H. Yarn-support for dyeing. No. 942,856; Dec. 7; Sp. p. 1715; Gaz. vol. 149; p. 278.
- Heber, M. S., New York, N. Y. Undergarment. No. 920,325; May 4; Sp. p. 483; Gaz. vol. 142; p. 75.
- Heberling, J., Rochester, N. Y. Dumping-wagon. No. 939,414; Nov. 9; Sp. p. 2159; Gaz. vol. 148; p. 358.
- Hebert, A., Montpelier, Vt. Pneumatic-tool coupling. No. 909,790; Jan. 12; Sp. p. 2735; Gaz. vol. 138; p. 482.
- Hebert, A., Montpelier, Vt. Pneumatic tool-coupling. No. 933,561; Sept. 7; Sp. p. 1230; Gaz. vol. 146; p. 181.
- Hebert, U., Manchester, N. H. Truck. No. 923,171; June 1; Sp. p. 107; Gaz. vol. 143; p. 17.
- Hebrank, W. F., Highland, Ill. Feeding mechanism for can-making machines. No. 913,886; Mar. 2; Sp. p. 458; Gaz. vol. 140; p. 75.
- Hecathorn, E., *et al.* (See Hecathorn, O., assignor.)
- Hecathorn, O., assignor of one-half to R. B. Stuckey, Columbus, and one-fourth to E. Hecathorn, West Sonora, Ohio. Car-coupling. No. 910,537; Jan. 26; Sp. p. 4308; Gaz. vol. 138; p. 791.
- Hecht, J. L., *et al.* (See Einfield, E., assignor.)
- Hecht, M. (See Dorf, J., assignor.)
- Heck, C. W. W. (See Minor and Heck.)
- Heckard, J. A. (See Culver and Heckard.)
- Heckard, J. A., Bellevue, Ky., assignor, by mesne assignments, to American Laundry Machinery Manufacturing Company. Mangie. No. 913,726; Mar. 2; Sp. p. 100; Gaz. vol. 140; p. 18.
- Hecker, L. R. (See Angle and Hecker.)
- Hecker, L. R., assignor to Safety Electric Railway Construction Company, Philadelphia, Pa. Attachment for current-collector wheels. No. 919,009; Apr. 20; Sp. p. 4263; Gaz. vol. 141; p. 745.
- Hecker, J. F., Harrisburg, Pa. Baggage-carrier. No. 929,088; July 27; Sp. p. 4934; Gaz. vol. 144; p. 879.
- Heckert, W., Findlay, Ohio, assignor of one-third to J. J. Dufford, New Castle, Pa., one-sixth to H. W. Seney, Toledo, and one-sixth to M. Knapp, Findlay, Ohio. Gas-engine with combined apparatus. No. 920,056; Apr. 27; Sp. p. 6628; Gaz. vol. 141; p. 1127.
- Heckler, L. J. (See Heckler, P. B. and L. J.)
- Heckler, P. B. and L. J., Sheraden, Pa. Furnace. No. 913,496; Feb. 23; Sp. p. 5086; Gaz. vol. 139; p. 908.
- Heckman, J. C., Allegheny, assignor of one-half to W. J. Gilmore, Pittsburg, Pa. Process of calcination. No. 922,425; May 18; Sp. p. 4773; Gaz. vol. 142; p. 828.
- Heckman, J. M., Alpha, Saskatchewan, Canada. Tool for breaking bands, wire, and the like. No. 927,653; July 13; Sp. p. 1980; Gaz. vol. 144; p. 346.
- Heckman, N. L., Marion, Ind. Combined disk and shoe seeding device. No. 943,406; Dec. 14; Sp. p. 2944; Gaz. vol. 149; p. 496.
- Heckscher, A. (See Bräutigam, A., assignor.) (Reissue.)
- Heckscher, A., *et al.* (See Kendall, E. D., assignor.) (Reissue.)
- Hedberg, F. L., assignor to Chicago Metal Weather Strip Company, Chicago, Ill. Metal weather-strip. No. 928,194; July 13; Sp. p. 3086; Gaz. vol. 144; p. 525.
- Hedden, F. F. (See Wiseman and Hedden.)
- Heddles, S. B., Janesville, Wis. Renovating, cleansing, and aromatizing tobacco. No. 937,801; Oct. 26; Sp. p. 4594; Gaz. vol. 147; p. 796.
- Hedendahl, T. A., Denver, Colo., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Duplex-pressure emergency-brake. No. 928,970; July 27; Sp. p. 4691; Gaz. vol. 144; p. 841.
- Hedgepeth, J. W. (See Lindsay and Hedgepeth.)
- Hedger, G., Milford, Ill. Fire-lighter. No. 915,596; Mar. 16; Sp. p. 3999; Gaz. vol. 140; p. 691.
- Hedges, D. O., Chattanooga, Tenn. Coal-scuttle. No. 931,300; Aug. 17; Sp. p. 3564; Gaz. vol. 145; p. 615.
- Hedges, J. C. (See Page and Hedges.)
- Hedges, J. H., and J. Allingham, Guanaecvi, Mexico. Metallurgical filter. No. 920,739; May 4; Sp. p. 1312; Gaz. vol. 142; p. 212.
- Hedges, M. R., assignor to Casey-Hedges Company, Chattanooga, Tenn. Boiler-lug. No. 909,592; Jan. 12; Sp. p. 2338; Gaz. vol. 138; p. 415.
- Hedgepeth, R. R., Phoenix, Ariz. Ter. Mail-bag catcher and deliverer. No. 920,568; May 4; Sp. p. 964; Gaz. vol. 142; p. 157.
- Hediger, C., Greenville, Ill. Can-polishing machine. No. 943,247; Dec. 14; Sp. p. 2612; Gaz. vol. 149; p. 442.
- Hedley, E. M., New York, N. Y. Car-strap. No. 922,765; May 25; Sp. p. 5496; Gaz. vol. 142; p. 967.
- Hedley, F., and J. S. Doyle, New York, N. Y. Coasting-record device. No. 940,810; Nov. 23; Sp. p. 5252; Gaz. vol. 148; p. 891.
- Hedlund, E. M., Lynch, Nebr. Pipe-tongs. No. 936,319; Oct. 12; Sp. p. 1481; Gaz. vol. 147; p. 256.



*Alphabetical list of patentees—Continued.*

- Hedlund, P. J., Järla, Stockholm, Sweden. Elastic-fluid turbine. No. 940,874; Nov. 23; Sp. p. 5381; Gaz. vol. 148; p. 912.
- Hedraim, S., Chicago, Ill. Automatic gravity-conveyer. No. 914,832; Mar. 9; Sp. p. 2476; Gaz. vol. 140; p. 414.
- Hedrich, C., *et al.* (See Melisch, J., assignor.)
- Hedrick, E. J., Los Angeles, Cal. Candy-mold. No. 934,310; Sept. 14; Sp. p. 2714; Gaz. vol. 146; p. 450.
- Hedrick, H. J., Lacon, Ill. Mail-crane. No. 940,152; Nov. 16; Sp. p. 3774; Gaz. vol. 148; p. 643.
- Hedrick, H. J., Lacon, Ill. Mail-bag-delivering apparatus. No. 943,876; Dec. 21; Sp. p. 3956; Gaz. vol. 149; p. 687.
- Hedstrom, C. O., Springfield, Mass. Carbureter. No. 910,379; Jan. 19; Sp. p. 3979; Gaz. vol. 138; p. 715.
- Hedstrom, C. O., Springfield, Mass. Motor-cycle frame. No. 932,546; Aug. 31; Sp. p. 6169; Gaz. vol. 145; p. 1069.
- Hedstrom, C. O., Springfield, Mass. Internal-combustion engine. No. 943,072; Dec. 14; Sp. p. 2271; Gaz. vol. 149; p. 385.
- Hedstrom, H., Winnipeg, Manitoba, Canada. Combination side and grain-car door. No. 928,308; July 20; Sp. p. 3379; Gaz. vol. 144; p. 594.
- Hedstrom, J. P., assignor to Hanchett Swage Works, Big Rapids, Mich. Oscillating mechanism for lap-grinding machines. No. 908,462; Jan. 5; Sp. p. 54; Gaz. vol. 138; p. 12.
- Hedstrom, J. P., assignor to Hanchett Swage Works, Big Rapids, Mich. Attachment for saw-swages. No. 909,295; Jan. 12; Sp. p. 1759; Gaz. vol. 138; p. 317.
- Hedstrom, J. P., Chicago, Ill., assignor, by mesne assignments, to Hanchett Swage Works, Big Rapids, Mich. Saw-sharpening machine. No. 930,178; Aug. 3; Sp. p. 1168; Gaz. vol. 145; p. 190.
- Hedstrom, W. F., Los Angeles, Cal. Toilet-chair. No. 927,531; July 13; Sp. p. 1703; Gaz. vol. 144; p. 304.
- Heé, J. and O., Greenpoint, N. Y. Non-refillable bottle. No. 915,435; Mar. 16; Sp. p. 3663; Gaz. vol. 140; p. 638.
- Heé, O. (See Heé, J. and O.)
- Heekin, A. E., *et al.* (See Miller, R. A., assignor.)
- Heekin, J. J., *et al.* (See Miller, R. A., assignor.)
- Heenan, D. (See Scritchfield, A. J., assignor.)
- Heeney, H. J., Boston, Mass., assignor to Holtzer-Cabot Electric Company. Signal device. No. 931,604; Aug. 17; Sp. p. 4135; Gaz. vol. 145; p. 712.
- Heer, O., Zurich, Switzerland. Rolling-mill. No. 910,813; Jan. 26; Sp. p. 4886; Gaz. vol. 138; p. 882.
- Heeren, O., Paris, France. Aeroplane. No. 929,217; July 27; Sp. p. 5202; Gaz. vol. 144; p. 923.
- Heeter, A. M. (See Heeter, C. M. and J. W., assignors.)
- Heeter, C. M., Butler, Pa. Bottom-hole packer. No. 909,593; Jan. 12; Sp. p. 2339; Gaz. vol. 138; p. 415.
- Heeter, C. M. and J. W.; said J. W. Heeter assignor to A. M. Heeter, Butler, Pa. Combination anchor and wall-packer. No. 925,906; June 22, Sp. p. 5915; Gaz. vol. 143; p. 1022.
- Heeter, D. L., Pittsburg, Pa. Device for gathering rod-wax. No. 913,286; Feb. 23; Sp. p. 4664; Gaz. vol. 139; p. 837.
- Heeter, J., Dayton, Ohio. Window-shutter worker. No. 932,277; Aug. 24; Sp. p. 5614; Gaz. vol. 145; p. 958.
- Heeter, J. W. (See Heeter, C. M. and J. W.)
- Heffelfinger, J. H. (See Poole and Heffelfinger.)
- Heffner, H. C., Martinsburg, W. Va. Guard for railway-platforms. No. 909,791; Jan. 12; Sp. p. 2736; Gaz. vol. 138; p. 482.
- Heffner, L. (See Spitz and Heffner.)
- Heffner, V. A. (See Amick, H. J., assignor.)
- Heiner-Altenack, F. von, Berlin, Germany. Type-writer. No. 914,272; Mar. 2; Sp. p. 1319; Gaz. vol. 140; p. 204.
- Heiner, J. M., Bryans Mills, Tex. Post-hole digger. No. 944,552; Dec. 28; Sp. p. 5439; Gaz. vol. 149; p. 945.
- Heft, C. E., Portland, Oreg., assignor of one-half to L. B. Markham, Grand Rapids, Mich. Lighting attachment for gaseous-fuel burners. No. 925,808; June 22; Sp. p. 5713; Gaz. vol. 143; p. 989.
- Hegarty, E. L., and H. L. Moody, Waterville, Me. Flat-iron stove. No. 920,569; May 4; Sp. p. 966; Gaz. vol. 142; p. 157.
- Hegedus, J., New York, N. Y. Fire-escape. No. 919,721; Apr. 27; Sp. p. 5921; Gaz. vol. 141; p. 1016.
- Hegeler, H., Danville, and N. L. Heinz, La Salle, Ill. Purifying gases containing sulfur dioxide. No. 931,868; Aug. 24; Sp. p. 4743; Gaz. vol. 145; p. 821.
- Heggem, A. G., Corapolis, assignor to Oil Well Supply Company, Pittsburg, Pa. Underreamer. No. 926,562; June 29; Sp. p. 7202; Gaz. vol. 143; p. 1274.
- Hegi, T. (See Holzschneider and Hegi.)
- Hegland, J. T., Minneapolis, Minn. Bridle crown-piece. No. 923,517; June 1; Sp. p. 900; Gaz. vol. 143; p. 137.
- Hehle, C. F. (See Weis and Hehle.)
- Heid, E., Indianapolis, Ind. Automatic sash-lock. No. 922,894; May 25; Sp. p. 5785; Gaz. vol. 142; p. 1009.
- Heid, N., Stockerau, near Vienna, Austria-Hungary. Machine for the manufacture of tubes from metal strips. No. 915,673; Mar. 16; Sp. p. 4178; Gaz. vol. 140; p. 720.
- Heidenreich, C., Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Disazo dye. No. 944,328; Dec. 28; Sp. p. 4920; Gaz. vol. 149; p. 867.
- Heidenstam, W. A. G. von, and K. L. F. Friedemann, Stockholm, Sweden. Preserving wood. No. 937,802; Oct. 26; Sp. p. 4595; Gaz. vol. 147; p. 796.
- Heider, H. J., Carroll, Iowa. Draft-equalizer. (Reissue.) No. 12,909; Jan. 12; Sp. p. 2851; Gaz. vol. 138; p. 502.
- Heidingsfeld, O., and T. Hammond, Greenfield, Ohio. Line-support for harness. No. 922,279; May 18; Sp. p. 4496; Gaz. vol. 142; p. 780.
- Heidland Baking Company. (See Jorres, R. W., assignor.)
- Heidt, G., New York, N. Y. Baby-gate. No. 942,067; Dec. 7; Sp. p. 57; Gaz. vol. 149; p. 11.
- Heifner, L. E., Nankin, Ohio. Fertilizer-distributor. No. 928,971; July 27; Sp. p. 4693; Gaz. vol. 144; p. 842.
- Heighington, J. B., Toronto, Ontario, assignor to Roman Stone Company, Limited, Toronto, Canada. Machine for tooling stone. No. 909,296; Jan. 12; Sp. p. 1762; Gaz. vol. 138; p. 317.
- Heikka, H., Franklin, Minn. Self-feeder for threshing-machines. No. 926,117; June 29; Sp. p. 6343; Gaz. vol. 143; p. 1126.
- Heil, A., Frankfurt-on-the-Main, Germany. Primary electric cell or battery. No. 941,416; Nov. 30; Sp. p. 6572; Gaz. vol. 148; p. 1114.
- Heil, C. T. (See Heil, M. T. and C. T.)
- Heil, E. J. (See Birner and Heil.)
- Heil, M. T. and C. T., Allentown, Pa. Safety-razor. No. 908,568; Jan. 5; Sp. p. 284; Gaz. vol. 138; p. 48.
- Heiland, L., New Bavaria, Ohio. Railroad-track construction. No. 917,600; Apr. 6; Sp. p. 1243; Gaz. vol. 141; p. 218.
- Heilbrunn Söhne, K. (See Pape, W., assignor.)
- Heilmann, W., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fluid-brake. No. 944,433; Dec. 28; Sp. p. 5149; Gaz. vol. 149; p. 904.
- Heilker, H. J. (See Earlywine, C. C., assignor.)
- Heilman, H. N., St. Louis, Mo. Poultry-brooder. No. 920,740; May 4; Sp. p. 1313; Gaz. vol. 142; p. 212.
- Heilprin, W. A., Philadelphia, Pa. Air-gun. No. 944,188; Dec. 21; Sp. p. 4622; Gaz. vol. 149; p. 793.
- Heim, A., Connorsville, Ind. Flower-supporter. No. 940,153; Nov. 16; Sp. p. 3777; Gaz. vol. 148; p. 644.
- Heim, J., Winnipeg, Manitoba, Canada. Variable-speed gearing. No. 929,425; July 27; Sp. p. 5650; Gaz. vol. 144; p. 992.
- Heim, M., assignor of one-half to L. Caro, New York, N. Y. Revolving sign. No. 925,907; June 22; Sp. p. 5917; Gaz. vol. 143; p. 1022.
- Heim, R. E., Danbury, Conn. Apparatus for softening hat-brims for setting. No. 929,945; Aug. 3; Sp. p. 687; Gaz. vol. 145; p. 109.
- Heim, R. E., Danbury, Conn. Heater. No. 929,946; Aug. 3; Sp. p. 688; Gaz. vol. 145; p. 110.
- Heim, V. J., Pittsburg, Pa. Cuspidor. No. 936,888; Oct. 12; Sp. p. 2682; Gaz. vol. 147; p. 447.
- Heim, W. L., Kane, Pa. Galvanic cell. No. 919,010; Apr. 20; Sp. p. 4264; Gaz. vol. 141; p. 745.
- Heimann, A., and L. Flatow, New York, N. Y. Pump. No. 939,911; Nov. 9; Sp. p. 3213; Gaz. vol. 148; p. 530.
- Heimann, A., and L. Flatow, assignors, by mesne assignments, to Double Value Vending Company, New York, N. Y. Coin-controlled apparatus. No. 918,548; Apr. 20; Sp. p. 3238; Gaz. vol. 141; p. 591.
- Heimann, A., and L. Flatow, assignors, by mesne assignments, to Double Value Vending Company, New York, N. Y. Weighing and vending apparatus. No. 918,549; Apr. 20; Sp. p. 3242; Gaz. vol. 141; p. 591.
- Heimann, A., and L. Flatow, assignors, by mesne assignments to Double Value Vending Company, New York, N. Y. Weight-indicating mechanism. No. 938,054; Oct. 26; Sp. p. 5122; Gaz. vol. 147; p. 880.
- Heimann & Lichten. (See Wales, E. L., assignor.)
- Heimbecker, R. B., Wilkinsburg, and S. R. M. Orum, Philadelphia, assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Trolley-wire hanger. No. 931,301; Aug. 17; Sp. p. 3564; Gaz. vol. 145; p. 615.
- Heimbuecher, J. J., Pittsburg, Pa. Water-curb-box lid. No. 943,407; Dec. 14; Sp. p. 2946; Gaz. vol. 149; p. 497.
- Heimlicher, J., Defiance, Ohio. Bolster. No. 930,752; Aug. 10; Sp. p. 2321; Gaz. vol. 145; p. 403.
- Hein, A. C. (See Bayless and Hein.)
- Hein, J. J., *et al.* (See Conkell, E. W., assignor.)
- Heina, P. E., Paris, France. Monotelephone-relay transformer. No. 930,753; Aug. 10; Sp. p. 2323; Gaz. vol. 145; p. 403.
- Heindel, O. J., Kansas City, Mo. Gas or oil burner. No. 939,415; Nov. 9; Sp. p. 2162; Gaz. vol. 148; p. 359.
- Heindseman, G. H., Provo, Utah. Flat-iron. No. 931,198; Aug. 17; Sp. p. 3330; Gaz. vol. 145; p. 579.
- Heineman, G., San Francisco, Cal. Overhead electrical car system. No. 916,863; Mar. 30; Sp. p. 6468; Gaz. vol. 140; p. 1155.

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 Heilmann, T. P., assignor to Triple Sign Company, Connorsville, Ind. Triple-sign manufacture. No. 942,498; Dec. 7; Sp. p. 992; Gaz. vol. 149; p. 160.  
 Heinen, R. H. (See Gregory and Heinen.)  
 Heinicke, J. C. (See Stewart and Heinicke.)  
 Heinger, W. B., and W. E. Vallance, Jersey City, N. J. Angle-cock. No. 913,287; Feb. 23; Sp. p. 4666; Gaz. vol. 139; p. 837.  
 Heinkel, C. F. (See Muth, Kelly, and Heinkel.)  
 Heinley, C., Amityville, N. Y. Dumping-wagon. No. 919,011; Apr. 20; Sp. p. 4266; Gaz. vol. 141; p. 746.  
 Heinley, J. O., Hutchinson, Kans. Pocket pencil-holder. No. 938,764; Nov. 2; Sp. p. 673; Gaz. vol. 143; p. 107.  
 Heinrich, J., assignor of one-half to E. T. Powers, Kansas City, Mo. Refrigerating apparatus. No. 942,445; Dec. 7; Sp. p. 859; Gaz. vol. 149; p. 140.  
 Heinrich, J., assignor of one-half to E. T. Powers, Kansas City, Mo. Refrigerating apparatus. No. 942,499; Dec. 7; Sp. p. 994; Gaz. vol. 149; p. 160.  
 Heinrichs, J. W., Chicago, Ill. Drapery or curtain pole fixture. No. 917,601; Apr. 6; Sp. p. 1244; Gaz. vol. 141; p. 219.  
 Heinrichsdorff, C., Berlin Germany. Vaporizer for burners. No. 913,288; Feb. 23; Sp. p. 4668; Gaz. vol. 139; p. 837.  
 Heins, A. J. D., Beaver Dam, Wis. Hinge. No. 923,518; June 1; Sp. p. 901; Gaz. vol. 143; p. 138.  
 Heintz, J. A., Menomone, Wis. Safety seat-fastener. No. 910,679; Jan. 26; Sp. p. 4606; Gaz. vol. 138; p. 838.  
 Heintzelman, T. W., Sacramento, Cal. Locomotive ash-pan. No. 916,150; Mar. 23; Sp. p. 5087; Gaz. vol. 140; p. 901.  
 Heintzelman, T. W., Sacramento, and J. G. Camp, Oakland, Cal. Air-feeding appliance for oil-burning steam-boilers. No. 910,285; Jan. 19; Sp. p. 3793; Gaz. vol. 138; p. 683.  
 Heintzelman, T. W., and J. G. Camp, Sacramento, Cal. Oil-superheater for steam-boiler furnaces. No. 920,570; May 4; Sp. p. 966; Gaz. vol. 142; p. 157.  
 Heinz, F., Acheson, Kans. Oil-cup and axle-bearing. No. 923,652; June 1; Sp. p. 1201; Gaz. vol. 143; p. 185.  
 Heinz, J., Detroit, assignor to Acme White Lead and Color Works, Hamtramck, Mich. Wheel-painting machine. No. 939,416; Nov. 9; Sp. p. 2163; Gaz. vol. 148; p. 359.  
 Heinz, N. D. (See Hegeler and Heinz.)  
 Heinz, W. V., La Salle, Ill. Wall-plug. No. 931,869; Aug. 24; Sp. p. 4744; Gaz. vol. 145; p. 821.  
 Heinze, J. O., Jr., Lowell, Mass. Spark-coil. No. 909,594; Jan. 12; Sp. p. 2341; Gaz. vol. 138; p. 415.  
 Heinze, J. O., Jr., Lowell, Mass. Dynamo-electric generator. No. 912,565; Feb. 16; Sp. p. 3197; Gaz. vol. 139; p. 573.  
 Heinze, J. O., Jr., Lowell, Mass. Internal-combustion engine. No. 943,408; Dec. 14; Sp. p. 2946; Gaz. vol. 149; p. 497.  
 Heisler, A. A. (See Evans and Heisler.)  
 Heisler, C. L., St. Marys, Ohio. Vacuum-pump. No. 909,183; Jan. 12; Sp. p. 1552; Gaz. vol. 138; p. 280.  
 Heissenberger, J. (See Schmidt and Heissenberger.)  
 Heissenberger, J., New York, N. Y. Cutlery. No. 927,532; July 13; Sp. p. 1705; Gaz. vol. 144; p. 304.  
 Heissenberger, J., assignor to F. A. and C. H. Stirrup, New York, N. Y. Razor-stropping device. No. 936,127; Oct. 5; Sp. p. 1113; Gaz. vol. 147; p. 169.  
 Heisterkamp, A., assignor of one-half to F. Rudolph, Hoboken, N. J. Slack-adjuster for clothes-lines. No. 912,566; Feb. 16; Sp. p. 3199; Gaz. vol. 139; p. 573.  
 Heitmann, E. (See Young and Heitmann.)  
 Heitmann, E., Montclair, assignor to Crocker-Wheeler Company, Ampere, N. J. Squirrel-cage rotor for electric motors. No. 919,862; Apr. 27; Sp. p. 6235; Gaz. vol. 141; p. 1063.  
 Heitmann's Nachf. Firm of J. (See Neumann and Gammelgaard, assignors.)  
 Heizer, J. S., Indianapolis, Ind. Washboiler clothes-pan. No. 910,380; Jan. 19; Sp. p. 3982; Gaz. vol. 138; p. 715.  
 Helander, A. H. (See Helander, E. G., assignor.)  
 Helander, E. G., assignor to A. H. Helander, Pittsburg, Pa. Barometric condenser. No. 926,486; June 29; Sp. p. 7075; Gaz. vol. 143; p. 1248.  
 Helander, H. A. B., St. Louis, Mo. Gas-burner. No. 914,044; Mar. 2; Sp. p. 846; Gaz. vol. 140; p. 130.  
 Helberger, H., Munich, Germany. Transforming smelting-furnace. No. 932,986; Aug. 31; Sp. p. 7058; Gaz. vol. 145; p. 1213.  
 Helbig, D., Rome, Italy. Oxidizing atmospheric nitrogen by electricity. No. 926,413; June 29; Sp. p. 6947; Gaz. vol. 143; p. 1224.  
 Helbronner, A. (See Vallee and Helbronner.)  
 Held, C., *et al.* (See Kille, W., assignor.)  
 Held, C., Malden, Mo. Ironing-board. No. 916,554; Mar. 30; Sp. p. 5907; Gaz. vol. 140; p. 1060.  
 Heldt, C., Dusseldorf, assignor to Rheinische Metallwaaren-und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Shell for ordnance. No. 911,008; Jan. 26; Sp. p. 5236; Gaz. vol. 138; p. 943.  
 Helena Manufacturing Company. (See McCutchan, A. H., assignor.)  
 Helfenstein, A., Vienna, Austria-Hungary. Electric furnace with raised charging-pit. No. 942,068; Dec. 7; Sp. p. 58; Gaz. vol. 149; p. 11.  
 Helfinger, C. F., Taylor, Wash. Shoe. No. 917,602; Apr. 6; Sp. p. 1246; Gaz. vol. 141; p. 219.  
 Helfrich, P., Orleans, Nebr. Wringer-clamp. No. 938,855; Nov. 2; Sp. p. 862; Gaz. vol. 148; p. 139.  
 Helgeson, M. (See Helgeson, O. and M.)  
 Helgeson, O. and M., Madelia, Minn. Combination-cart. No. 909,297; Jan. 12; Sp. p. 1765; Gaz. vol. 138; p. 317.  
 Helgeson, S. T., Regina, Saskatchewan, Canada. Grain-immersing machine. No. 921,697; May 18; Sp. p. 3310; Gaz. vol. 142; p. 589.  
 Hellawell, R. J., New York, N. Y., assignor to A. G. Spalding & Bros., Jersey City, N. J. Eyeglass-protector for base-ball players, &c. No. 924,613; June 8; Sp. p. 3266; Gaz. vol. 143; p. 532.  
 Heller, B., Chicago, Ill. Insect catcher or paper holder. No. 944,434; Dec. 28; Sp. p. 5151; Gaz. vol. 149; p. 904.  
 Heller, E. W., Newark, N. J. Filter-press. No. 942,173; Dec. 7; Sp. p. 319; Gaz. vol. 149; p. 48.  
 Heller, H., *et al.* (See Wirgovits, J., assignor.)  
 Heller, I., assignor to Wolf, Sayer & Heller, Chicago, Ill. Meat-slicing machine. No. 939,417; Nov. 9; Sp. p. 2164; Gaz. vol. 148; p. 359.  
 Hellick, E. C. (See Leh and Hellick.)  
 Hellesen, T., Brooklyn, N. Y. Amusement apparatus. No. 929,130; July 27; Sp. p. 5029; Gaz. vol. 144; p. 894.  
 Hellion, J. W. (See Schrenkeisen and Hellion.)  
 Hellman, B., Chicago, Ill. Keyhole-stop. No. 925,101; June 15; Sp. p. 4286; Gaz. vol. 143; p. 730.  
 Hellman, B., Chicago, Ill. Keyhole-stop. No. 929,850; Aug. 3; Sp. p. 486; Gaz. vol. 145; p. 77.  
 Hellmer, R. E. (See Hanzlik and Hellmer.)  
 Hellmich, C., assignor of one-half to J. F. Kaufmann, Detroit, Mich. Covering metals. No. 910,814; Jan. 26; Sp. p. 4888; Gaz. vol. 138; p. 882.  
 Hellmig, E. C. A., Dresden-Löbtau, assignor to Deutsche Glühstoff-Gesellschaft M. B. H., Dresden, Germany. Food-heater. No. 929,089; July 27; Sp. p. 4935; Gaz. vol. 144; p. 879.  
 Hellmund Collohm Electric Company. (See Hellmund, R. E., assignor.)  
 Hellmund, R. E., Hinsdale, Ill., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electromagnetically-operated apparatus. No. 928,516; July 20; Sp. p. 3774; Gaz. vol. 144; p. 662.  
 Hellmund, R. E., Pittsburg, Pa., assignor to Hellmund Collohm Electric Company. Induction-motor. No. 931,302; Aug. 17; Sp. p. 3566; Gaz. vol. 145; p. 615.  
 Hellyqvist, S. A. (See Nilsson and Hellyqvist.)  
 Hellwig, A. O. H., Georgetown, Wash. Adjustable press-button. No. 930,961; Aug. 10; Sp. p. 2768; Gaz. vol. 145; p. 470.  
 Hellwig Silk Dyeing Company. (See Knap, J., assignor.)  
 Hellwig, T. L. A., Brooklyn, N. Y. Lock-hinge. No. 929,304; July 27; Sp. p. 5410; Gaz. vol. 144; p. 952.  
 Helm, G. E., *et al.* (See Salter, C. F., assignor.)  
 Helm, H. B., New York, N. Y. System for protection against fire. No. 914,721; Mar. 9; Sp. p. 2246; Gaz. vol. 140; p. 377.  
 Helm, H. B., New York, N. Y. Nozzle. No. 922,895; May 25; Sp. p. 5786; Gaz. vol. 142; p. 1009.  
 Helm, H. C., *et al.* (See Salter, C. F., assignor.)  
 Helman, R. C., assignor to Eclipse Machine Company, Elmira, N. Y. Chuck. No. 933,071; Sept. 7; Sp. p. 67; Gaz. vol. 146; p. 11.  
 Helmer, D. F. (See Ford and Helmer.)  
 Helmer, D. S., *et al.* (See Baker, O. O., assignor.)  
 Helmer, N. A., New York, N. Y. Crushing-mill. No. 924,062; June 8; Sp. p. 2088; Gaz. vol. 143; p. 348.  
 Helmlinger, A., Hanover, Kans. Cultivator. No. 926,063; June 22; Sp. p. 6219; Gaz. vol. 143; p. 1073.  
 Helmond, W. F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 919,012; Apr. 20; Sp. p. 4268; Gaz. vol. 141; p. 746.  
 Helmond, W. F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 928,972; July 27; Sp. p. 4695; Gaz. vol. 144; p. 842.  
 Helmond, W. F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 930,962; Aug. 10; Sp. p. 2769; Gaz. vol. 145; p. 470.  
 Helmond, W. F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 931,303; Aug. 17; Sp. p. 3567; Gaz. vol. 145; p. 616.



*Alphabetical list of patentees—Continued.*

- Helms, J. H., and J. E. Black, Charlotte, N. C. Auto-operating churn. No. 944,965; Dec. 28; Sp. p. 6311; Gaz. vol. 149; p. 1084.
- Helms, R., assignor to San Telmo Cigar Mfg. Company, Detroit, Mich. Cigar end or tuck forming machine. No. 940,248; Nov. 16; Sp. p. 3983; Gaz. vol. 148; p. 678.
- Helpenstine, W. A., Wind Ridge, Pa. Burglar-alarm. No. 928,754; July 20; Sp. p. 4256; Gaz. vol. 144; p. 741.
- Helsingborgs Kopparverks Aktiebolag. (See Ramén, A., assignor.)
- Heltberg, A. H., Christiania, Norway. Cash-register. No. 923,172; June 1; Sp. p. 109; Gaz. vol. 143; p. 18.
- Helvig, G. O., and A. W. Ewing, Dawson, Minn. Collapsible shipping-case. No. 908,862; Jan. 5; Sp. p. 890; Gaz. vol. 138; p. 141.
- Helwig, A., Detroit, Mich. Spark-plug. No. 940,594; Nov. 16; Sp. p. 4765; Gaz. vol. 148; p. 794.
- Hembree, E. L., Chester, Okla. Match-box. No. 909,407; Jan. 12; Sp. p. 1972; Gaz. vol. 138; p. 351.
- Hemenway, T. S. (See Weman and Hemenway.)
- Hemingray Glass Company. (See Hemingray and Hawk, assignors.)
- Hemingray, R. G., and C. Hawk, assignors to Hemingray Glass Company, Muncie, Ind. Screw-press to form insulators. No. 909,595; Jan. 12; Sp. p. 2342; Gaz. vol. 138; p. 415.
- Hemleb, M. (See Diehl and Hemleb.)
- Hemleb, M., Elizabeth, N. J., assignor to Singer Manufacturing Company. Sewing-machine. No. 924,903; June 15; Sp. p. 3888; Gaz. vol. 143; p. 662.
- Hemmer, F. L., East Arlington, Vt. Bucksaw. No. 914,833; Mar. 9; Sp. p. 2477; Gaz. vol. 140; p. 414.
- Hemmerling, J. (See Hemmerling, J. and J.)
- Hemmerling, J. and J., Paterson, N. J. Movable weather-strip. No. 944,093; Dec. 21; Sp. p. 4423; Gaz. vol. 149; p. 762.
- Hemmingsen, C. J. (See Henriksen and Hemmingsen.)
- Hemp, L. W., St. Louis, Mo. Air-tight heating-stove. No. 918,318; Apr. 13; Sp. p. 2754; Gaz. vol. 141; p. 488.
- Hemphill, J. D., Central Falls, R. I. Circular automatic stocking-knitting machine. No. 933,443; Sept. 7; Sp. p. 900; Gaz. vol. 146; p. 140.
- Hemphill, J. D., Central Falls, R. I. Yarn-feeding and yarn-changing device for knitting-machines. No. 934,969; Sept. 21; Sp. p. 4007; Gaz. vol. 146; p. 696.
- Hemphill, J. D., Central Falls, R. I. Automatic circular-knitting machine. No. 935,981; Oct. 5; Sp. p. 811; Gaz. vol. 147; p. 120.
- Hemsley, J. A., Trenton, N. J. Wrench. No. 935,499; Sept. 28; Sp. p. 5057; Gaz. vol. 146; p. 893.
- Hemsteger, E. A. (See Weissell and Hemsteger.)
- Hen Feather Incubator Company. (See Raymond, E. B., assignor.)
- Henby, V. B., and H. Fintel, Jr., Hardy, Nebr. Thill-coupling. No. 930,286; Aug. 3; Sp. p. 1345; Gaz. vol. 145; p. 222.
- Hench, S. N., York, Pa. Cultivator and like machine. No. 917,603; Apr. 6; Sp. p. 1247; Gaz. vol. 141; p. 220.
- Hench, S. N., York, Pa. Cultivator and like machine. No. 917,762; Apr. 13; Sp. p. 1609; Gaz. vol. 141; p. 299.
- Hencke, H., Charlottenburg, Germany. Vacuum drum-filter for separating solid substances from liquids. No. 915,436; Mar. 16; Sp. p. 3665; Gaz. vol. 140; p. 638.
- Hency, J., assignor of one-half to G. H. Peddle, Perry, N. Y. Barrel-hooping machine. No. 926,187; June 29; Sp. p. 6508; Gaz. vol. 143; p. 1151.
- Hendershot, J. L., assignor of one-half to R. R. Vanhorn, Jerusalem, Ohio. Pipe lifting and separating apparatus. No. 927,854; July 13; Sp. p. 2403; Gaz. vol. 144; p. 411.
- Henderson, A., Woodhaven, N. Y. Game-puzzle. No. 931,923; Aug. 24; Sp. p. 4891; Gaz. vol. 145; p. 839.
- Henderson, A. C., Buffalo, N. Y. Bust-pad. No. 938,856; Nov. 2; Sp. p. 864; Gaz. vol. 148; p. 139.
- Henderson, C. A., trustee, *et al.* (See Jenkins, C. F., assignor.)
- Henderson, C. O., Dayton, Ohio, assignor of one-third to W. A. Pickens, Indianapolis, Ind. Rubber vehicle-tire. No. 918,550; Apr. 20; Sp. p. 3245; Gaz. vol. 141; p. 591.
- Henderson, C. O., Dayton, Ohio, assignor of one-third to W. A. Pickens, Indianapolis, Ind. Vehicle-tire. No. 940,014; Nov. 16; Sp. p. 3443; Gaz. vol. 148; p. 594.
- Henderson, C. S., *et al.* (See Newbaker, W. L., assignor.)
- Henderson, C. T., and C. H. Miller, Milwaukee, Wis. Automatic motor-starter. No. 921,398; May 11; Sp. p. 2692; Gaz. vol. 142; p. 462.
- Henderson, E. L., assignor to Kemper-Thomas Company, Norwood, Ohio. Apron. No. 944,553; Dec. 28; Sp. p. 5440; Gaz. vol. 149; p. 946.
- Henderson, G., Dorchester, Mass. Jar-closure. No. 941,417; Nov. 30; Sp. p. 6574; Gaz. vol. 148; p. 1115.
- Henderson, G. A., Marblehead, Mass. Attachment for skiving-machines. No. 928,755; July 20; Sp. p. 4259; Gaz. vol. 144; p. 742.
- Henderson, H., New York, N. Y. Mold-ramming apparatus. No. 931,199; Aug. 17; Sp. p. 3331; Gaz. vol. 145; p. 579.
- Henderson, H., New York, N. Y. Mold-ramming apparatus. No. 931,200; Aug. 17; Sp. p. 3333; Gaz. vol. 145; p. 580.
- Henderson, H., New York, N. Y. Mold-ramming apparatus. No. 931,201; Aug. 17; Sp. p. 3336; Gaz. vol. 145; p. 580.
- Henderson, H. T., and H. M. Lourie, assignors, by mesne assignments, to National Hydraulic Tire Setter Company, Keokuk, Iowa. Tire-setting machine. No. 933,834; Sept. 14; Sp. p. 1775; Gaz. vol. 146; p. 294.
- Henderson, J., Bruton, England. Wheel for road-vehicles. No. 925,908; June 22; Sp. p. 5918; Gaz. vol. 143; p. 1022.
- Henderson, J. C., Oakland, assignor to Apollo Artificial Stone Company, San Francisco, Cal. Facing artificial stone. No. 909,792; Jan. 12; Sp. p. 2738; Gaz. vol. 138; p. 482.
- Henderson, J. G., Chicago, Ill. Floor-sander. No. 915,597; Mar. 16; Sp. p. 4000; Gaz. vol. 140; p. 691.
- Henderson, J. G., Newark, N. J. Bill-file. No. 920,867; May 4; Sp. p. 1586; Gaz. vol. 142; p. 253.
- Henderson, J. H., Ottawa, Ontario, Canada. Cuff-fastener. No. 922,476; May 25; Sp. p. 4898; Gaz. vol. 142; p. 872.
- Henderson, J. W., and J. E. Sherif, Ouray, Colo. Muck-car. No. 919,863; Apr. 27; Sp. p. 6236; Gaz. vol. 141; p. 1064.
- Henderson, M. L., Randall, Iowa. Seed-corn rack. No. 928,195; July 13; Sp. p. 3088; Gaz. vol. 144; p. 526.
- Henderson, N. O., Lost Nation, Iowa, assignor to Rock Island Plow Company, Rock Island, Ill. Hay-loader. No. 916,310; Mar. 23; Sp. p. 5371; Gaz. vol. 140; p. 953.
- Henderson, R., Thomaston, Conn. Turbine. No. 932,123; Aug. 24; Sp. p. 5316; Gaz. vol. 145; p. 906.
- Henderson, T. D. (See Cotton and Henderson.)
- Henderson, W. M. (See Reineohl and Henderson.)
- Henderson, W. M., Steelton, Pa. Movable-point crossing. No. 924,063; June 8; Sp. p. 2090; Gaz. vol. 143; p. 348.
- Hendler, F., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-flocking drive-gear. No. 922,138; May 18; Sp. p. 4197; Gaz. vol. 142; p. 733.
- Hendrick, C. S., Clinton, Ill. Door-retainer. No. 910,815; Jan. 26; Sp. p. 4889; Gaz. vol. 138; p. 882.
- Hendrick, W., assignor to C. Gay, New Haven, Conn. Moving-picture device. No. 930,073; Aug. 3; Sp. p. 948; Gaz. vol. 145; p. 153.
- Hendricks, A., Grand Rapids, Mich. Combination crib and baby-carriage. No. 942,174; Dec. 7; Sp. p. 322; Gaz. vol. 149; p. 49.
- Hendricks, A., Grand Rapids, Mich. Adding-machine stand. (Reissue.) No. 12,973; June 15; Sp. p. 4921; Gaz. vol. 143; p. 840.
- Hendricks, B. K., Mendon, Ill. Hitch-strap holder. No. 916,311; Mar. 23; Sp. p. 5374; Gaz. vol. 140; p. 954.
- Hendricks, O. E., assignor of two-thirds to A. L. Love and L. Buedel, Ottumwa, Iowa. Drill-head. No. 915,674; Mar. 16; Sp. p. 4182; Gaz. vol. 140; p. 721.
- Hendricks, T. A. J., Board Tree, W. Va. Railway-tie plate. No. 943,073; Dec. 14; Sp. p. 2274; Gaz. vol. 149; p. 385.
- Hendricks, T. J., Rome, Ga. Valve. No. 939,499; Nov. 9; Sp. p. 2331; Gaz. vol. 148; p. 387.
- Hendricks, W. A., Pecos, Tex. Rail connection. No. 923,838; June 8; Sp. p. 1673; Gaz. vol. 143; p. 277.
- Hendrickson, A. A., Omaha, Nebr. Flooring-clamp. No. 909,408; Jan. 12; Sp. p. 1973; Gaz. vol. 138; p. 352.
- Hendrickson, E. (See Farrington, G. H., assignor.)
- Hendrickson, J. F., Boston, assignor to J. E. Harriman, Jr., Brookline, Mass. Fluid-pressure packing for steam and other joints. No. 926,414; June 29; Sp. p. 6948; Gaz. vol. 143; p. 1224.
- Hendrix, J. D., Atlanta, Ga. Liquid-cooler. No. 939,021; Nov. 2; Sp. p. 1232; Gaz. vol. 148; p. 197.
- Hendrix, J. D., Montgomery, Ala., assignor to Hendrix-May Refrigerator Company. Beer-cooler. No. 911,405; Feb. 2; Sp. p. 742; Gaz. vol. 139; p. 128.
- Hendrix, J. M., Lewisville, Tex. Trap. No. 910,000; Jan. 19; Sp. p. 3164; Gaz. vol. 138; p. 585.
- Hendrix-May Refrigerator Company. (See Hendrix, J. D., assignor.)
- Hendrix, W. B., Brazil, Ind. Pine-bar. No. 922,280; May 18; Sp. p. 4497; Gaz. vol. 142; p. 780.
- Hendry, A., assignor to Laminated Belting Company, New York, N. Y. Sewing-thread and making the same. No. 908,771; Jan. 5; Sp. p. 721; Gaz. vol. 138; p. 112.
- Hendry, W. F., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Automatic motor-starter. No. 921,989; May 18; Sp. p. 3915; Gaz. vol. 142; p. 684.
- Hendryx, W. C., Jacksonville, Fla. Draft-rigging. No. 910,816; Jan. 26; Sp. p. 4891; Gaz. vol. 138; p. 883.
- Henery, G., Zanesville, Ohio. Toy. No. 939,022; Nov. 2; Sp. p. 1234; Gaz. vol. 148; p. 197.
- Henhapl, A., Superior, Wis. Bed-pad. No. 916,864; Mar. 30; Sp. p. 6470; Gaz. vol. 140; p. 1155.
- Henig, L. F., Philadelphia, Pa. Poultry-hanger. No. 938,765; Nov. 2; Sp. p. 675; Gaz. vol. 148; p. 108.
- Hening, C. E., McComb, assignor to J. B. Mueller, Toledo, Ohio. Combined window cleaner and wiper. No. 909,793; Jan. 12; Sp. p. 2740; Gaz. vol. 138; p. 482.
- Henius, M., Chicago, Ill. Brewing. No. 925,700; June 22; Sp. p. 5441; Gaz. vol. 143; p. 952.
- Henke, R., Jr., New York, N. Y. Paint-can. No. 933,444; Sept. 7; Sp. p. 919; Gaz. vol. 146; p. 141.

*Alphabetical list of patentees—Continued.*

- Henkel, G., Canal Dover, Ohio. Cut-off for water-spouts. No. 938,665; Nov. 2; Sp. p. 487; Gaz. vol. 148; p. 75.
- Henkle, E. A. (See De La Monte and Henkle.)
- Henkley, E. A., and C. H. de La Monte, Philadelphia, Pa., assignors to International Speed Register Co., New York, N. Y. Speed-recorder. No. 914,834; Mar. 9; Sp. p. 2479; Gaz. vol. 140; p. 415.
- Henkle, E. A., and C. H. de La Monte, Philadelphia, Pa., assignors to International Speed Register Co., New York, N. Y. Speed-recorder. No. 914,835; Mar. 9; Sp. p. 2486; Gaz. vol. 140; p. 415.
- Henklein, O. (See Tischler and Henklein.)
- Henle, E. M., Ogden, assignor to Wagner Manufacturing Company, Cedar Falls, Iowa. Sled-runner attachment for wheeled vehicles. No. 921,109; May 11; Sp. p. 2073; Gaz. vol. 142; p. 365.
- Henle, E. M., Perry, assignor to Wagner Manufacturing Company, Cedar Falls, Iowa. Child's wagon, sled, and the like. No. 927,238; July 6; Sp. p. 1113; Gaz. vol. 144; p. 180.
- Henle, M. A., Marengo, Iowa. Washboard. No. 914,836; Mar. 9; Sp. p. 2491; Gaz. vol. 140; p. 416.
- Henle, M. F., Lyons, Iowa. Artificial tooth. No. 913,210; Feb. 23; Sp. p. 4507; Gaz. vol. 139; p. 812.
- Henley, B., Edinburg, Pa. Swivel-coupling. No. 923,519; June 1; Sp. p. 902; Gaz. vol. 143; p. 138.
- Henley, E. M. (See McDaniel, T. J., assignor.)
- Henley, H. C., and A. B. Crowder, St. Louis, Mo. Automatic alarm device for fire-extinguishing apparatus. No. 936,889; Oct. 12; Sp. p. 2683; Gaz. vol. 147; p. 447.
- Henley, J. W., Jackson, Miss. Combined window curtain and shade hanger. No. 938,485; Nov. 2; Sp. p. 72; Gaz. vol. 148; p. 13.
- Henn, H., Berlin, Germany, assignor to American Thermos Bottle Company, Brooklyn, N. Y. Double-walled vessel. No. 923,791; June 1; Sp. p. 1551; Gaz. vol. 143; p. 231.
- Hennebique, F. (See Liebeaux and Hennebique.)
- Henneböhle, F., Chicago, Ill. Safety system for ammonia refrigerating apparatus. No. 933,731; Sept. 7; Sp. p. 1587; Gaz. vol. 146; p. 240.
- Hennefer Maschinenfabrik C. Reuther & Reisert, M. B. H. (See Reisert, M. E., assignor.)
- Hennequin, D., and E. Plagnes, Paris, France. Making ready for printing from blocks and forms. No. 911,497; Feb. 2; Sp. p. 889; Gaz. vol. 139; p. 157.
- Hennessey, J. W., *et al.* (See Smith, G. A., assignor.)
- Hennessey, T. B., Chicago, Ill., assignor to Champion Chemical Company, Springfield, Ohio. Post-mortem table. No. 943,827; Dec. 21; Sp. p. 3856; Gaz. vol. 149; p. 671.
- Hennessey, W. A., assignor of one-half to F. Gauthier, Ashland, Wis. Artificial hand. No. 941,197; Nov. 23; Sp. p. 6081; Gaz. vol. 148; p. 1020.
- Hennicke, C. A., Buffalo, N. Y. Pole-bound attachment for vehicles. No. 937,151; Oct. 19; Sp. p. 3227; Gaz. vol. 147; p. 563.
- Hennicke, C. A., Buffalo, N. Y. Evener and whiffletree coupling. No. 944,264; Dec. 28; Sp. p. 4773; Gaz. vol. 149; p. 844.
- Hennies, C. E., Atlanta, Ga. Sash-lock. No. 914,410; Mar. 9; Sp. p. 1613; Gaz. vol. 140; p. 275.
- Hennig, F. A. (See Kilmer and Hennig.)
- Hennig, R., Zweibrücken, Germany. Valve-gearing for explosion-engines. No. 910,680; Jan. 26; Sp. p. 4608; Gaz. vol. 138; p. 839.
- Hennig, R., Zweibrücken, Germany. Ignition-gear for internal-combustion engines. No. 916,312; Mar. 23; Sp. p. 5375; Gaz. vol. 140; p. 954.
- Hennig, R., Hamburg, Germany. Reversible valve-gear for elastic-fluid engines. No. 935,500; Sept. 28; Sp. p. 5059; Gaz. vol. 146; p. 833.
- Henning, C. H., Iron Ridge, Wis. Scrubbing-machine. No. 920,136; May 4; Sp. p. 93; Gaz. vol. 142; p. 13.
- Henning, F. H., Chicago, Ill. Water-closet. No. 924,988; June 15; Sp. p. 4069; Gaz. vol. 143; p. 692.
- Henning, F. H., Chicago, Ill. Convertible furniture. No. 931,304; Aug. 17; Sp. p. 3571; Gaz. vol. 145; p. 616.
- Henning, F. M., Doxey, Okla. Capping device for oil-wells. No. 941,452; Nov. 30; Sp. p. 6641; Gaz. vol. 148; p. 1125.
- Henning, J. J., Reading, Pa. Umbrella. No. 915,958; Mar. 23; Sp. p. 4722; Gaz. vol. 140; p. 838.
- Henninger, H. (See Herzler, Henninger, and Fenner.)
- Henrich, P., Hoquiam, Wash. Collapsible box. No. 911,304; Feb. 2; Sp. p. 556; Gaz. vol. 139; p. 95.
- Henrich, P., Hoquiam, Wash. Berry-box. No. 929,645; July 27; Sp. p. 6085; Gaz. vol. 144; p. 1063.
- Henrichsen, J., and C. J. Hemmingsen, Copenhagen, Denmark. Milking appliance. No. 938,857; Nov. 2; Sp. p. 865; Gaz. vol. 148; p. 140.
- Henrici, W. A. E., assignor, by mesne assignments, to Liberty Trust Company, trustee, Boston, Mass. Friction-clutch. No. 935,909; Oct. 5; Sp. p. 662; Gaz. vol. 147; p. 96.
- Henricks Novelty Company. (See Kenney, E. T., assignor.)
- Henrikson, C. I., Chicago, Ill. Engine. No. 911,590; Feb. 9; Sp. p. 1103; Gaz. vol. 139; p. 215.
- Henrikson, E., assignor to Bullard Machine Tool Company, Bridgeport, Conn. Gearing. No. 931,761; Aug. 24; Sp. p. 4528; Gaz. vol. 145; p. 787.
- Henriod, C. E., Neuilly, France. Transmission-gearing. No. 917,729; Apr. 6; Sp. p. 1493; Gaz. vol. 141; p. 261.
- Henriod, C. E., Neuilly, France. Variable-speed reversing mechanism. No. 919,576; Apr. 27; Sp. p. 5631; Gaz. vol. 141; p. 967.
- Henriques, C. D., Newark, N. J., assignor to Gotham Can Company, New York, N. Y. Can. No. 922,896; May 25; Sp. p. 5788; Gaz. vol. 142; p. 1009.
- Henry, A. L. (See Vickers and Henry.)
- Henry, A. M., New York, N. Y. Camera. No. 923,173; June 1; Sp. p. 116; Gaz. vol. 143; p. 18.
- Henry, C. B., *et al.* (See Daring, W. G., assignor.)
- Henry, C. W., Detroit, Mich. Aerial ropeway. No. 909,794; Jan. 12; Sp. p. 2740; Gaz. vol. 138; p. 483.
- Henry, D. M., assignor of one-half to W. M. Towle, South Brooklyn, Cleveland, Ohio. Window-screen. No. 931,421; Aug. 17; Sp. p. 3803; Gaz. vol. 145; p. 657.
- Henry Diston & Sons. (See King, E. A., assignor.)
- Henry, E. B., San Francisco, Cal. Fresh-air inlet. No. 938,145; Oct. 26; Sp. p. 5324; Gaz. vol. 147; p. 911.
- Henry, F. H., Philadelphia, Pa. Mechanism for turning car-seats. No. 924,458; June 8; Sp. p. 2934; Gaz. vol. 143; p. 480.
- Henry, F. H., assignor to J. A. Brill, Philadelphia, Pa. Wear-strip and retainer for securing coverings to the frames of car-seats. No. 941,875; Nov. 30; Sp. p. 7545; Gaz. vol. 148; p. 1269.
- Henry, F. M., Minneapolis, Minn. Machine for molding concrete blocks. No. 930,665; Aug. 10; Sp. p. 2144; Gaz. vol. 145; p. 374.
- Henry, F. R., assignor to Majestic Manufacturing Company, St. Louis, Mo. Drop-door. No. 934,726; Sept. 21; Sp. p. 3526; Gaz. vol. 146; p. 614.
- Henry, F. R., assignor to Majestic Manufacturing Company, St. Louis, Mo. Towel-rack for ranges and stoves. No. 936,890; Oct. 12; Sp. p. 2685; Gaz. vol. 147; p. 447.
- Henry G. Thompson & Son Co. (See Lanfair, H. D., assignor.)
- Henry G. Thompson & Son Company. (See Carr, J. and W., assignors.)
- Henry, G., Lennoxville, Quebec, Canada. Means for controlling the supply of electric currents. No. 923,839; June 8; Sp. p. 1674; Gaz. vol. 143; p. 277.
- Henry, G. E., Philadelphia, Pa. Eye-shade. No. 932,703; Aug. 31; Sp. p. 6515; Gaz. vol. 145; p. 1122.
- Henry, G. E., Vincennes, assignor of one-half to B. G. Hudnut, Terre Haute, Ind. Apparatus for removing hulls from grain. No. 938,323; Oct. 26; Sp. p. 5705; Gaz. vol. 147; p. 972.
- Henry, G. M., Pierre, S. D. Harness clamp and guide. No. 930,287; Aug. 3; Sp. p. 1346; Gaz. vol. 145; p. 223.
- Henry, G. W., Jr., assignor to Burnham, Williams & Company, Philadelphia, Pa. Reverse-shaft for articulated locomotives. No. 911,395; Feb. 2; Sp. p. 727; Gaz. vol. 139; p. 125.
- Henry, G. W., Jr., assignor to Burnham, Williams & Company, Philadelphia, Pa. Articulated locomotive. No. 922,426; May 18; Sp. p. 4775; Gaz. vol. 142; p. 828.
- Henry, G. W., Sr., Bloomington, Ill. Nut-holder and joint-supporter for railway-rails. No. 943,543; Dec. 14; Sp. p. 3236; Gaz. vol. 149; p. 545.
- Henry, J., Grand Forks, N. D. Grain-door for cars. No. 924,064; June 8; Sp. p. 2091; Gaz. vol. 143; p. 349.
- Henry, J., Grand Forks, N. D. Grain-door for cars. No. 924,065; June 8; Sp. p. 2093; Gaz. vol. 143; p. 349.
- Henry, J. A., assignor to Utility Manufacturing Company, Sturgis, Mich. Sickie. No. 912,375; Feb. 16; Sp. p. 2790; Gaz. vol. 139; p. 508.
- Henry, J. F., Boulogne-sur-Mer, France. Rope-pulley made in two parts. No. 927,969; July 13; Sp. p. 2645; Gaz. vol. 144; p. 450.
- Henry, J. N., Providence, R. I., assignor to C. P. Henry Novelty Company. Curtain-rod. No. 930,288; Aug. 3; Sp. p. 1348; Gaz. vol. 145; p. 223.
- Henry, L. I., *et al.* (See Callaway, D. A., assignor.)
- Henry Likly & Co. (See Cannan, J. J., assignor.)
- Henry R. Worthington. (See De Laval, G., assignor.)
- Henry R. Worthington. (See Grace, J. F., assignor.)
- Henry R. Worthington. (See Scheurmann, W., assignor.)
- Henry, R., Pueblo, Colo. Electric-line insulator. No. 922,477; May 25; Sp. p. 4899; Gaz. vol. 142; p. 873.
- Henry, R., Pueblo, Colo. Orchard-heating device. No. 922,478; May 25; Sp. p. 4900; Gaz. vol. 142; p. 873.
- Henry, R., Pueblo, Colo. Shoe-cleaning device. No. 922,479; May 25; Sp. p. 4901; Gaz. vol. 142; p. 873.
- Henry, R., Blue Lake, Cal. Sash-fastener. No. 930,598; Aug. 10; Sp. p. 2010; Gaz. vol. 145; p. 352.
- Henry, R. A., Irwin, Pa. Dish-washing machine. No. 944,329; Dec. 28; Sp. p. 4921; Gaz. vol. 149; p. 867.



*Alphabetical list of patentees—Continued.*

- Henry, R. G. (See Allen and Henry.)  
 Henry, S., Lilesville, N. C. Mail-delivery apparatus. No. 943,934; Dec. 21; Sp. p. 4093; Gaz. vol. 149; p. 709.  
 Henry T. Adams Company. (See Adams, H. T., assignor.)  
 Henry, T. O. (See Cooper and Henry.)  
 Henry, V. A. (See Green and Henry.)  
 Henry, W. A., North Adams, Mass., assignor of one-third to C. H. Rich and one-third to L. Rich, Schenectady, N. Y. Boiler. No. 920,057; Apr. 27; Sp. p. 6632; Gaz. vol. 141; p. 1128.  
 Henry, W. S. (See Daly, Weidhaas, and Henry.)  
 Henschen, F. W. (See Speck and Henschen.)  
 Hensel-Colladay Company. (See Kirberg, J. E., assignor.)  
 Hensel, S. T., Denver, Colo. Apparatus for the manufacture of simple syrup. No. 912,959; Feb. 16; Sp. p. 3986; Gaz. vol. 139; p. 702.  
 Hensel, S. T., Denver, Colo. Simple-syrup percolator. No. 939,131; Nov. 2; Sp. p. 1447; Gaz. vol. 148; p. 235.  
 Hensler, G., Remington, Ind. Eaves-trough. No. 939,838; Nov. 9; Sp. p. 3055; Gaz. vol. 148; p. 504.  
 Hensley, C. L., White Bluffs, Wash. Exhaust-muffler No. 943,544; Dec. 14; Sp. p. 3237; Gaz. vol. 149; p. 545.  
 Hensley, C. P., San Francisco, Cal. Gas-stove. No. 928,048; July 13; Sp. p. 2803; Gaz. vol. 144; p. 477.  
 Henson, C. (See Grogan and Henson.)  
 Henson, O. R., Springfield, Ohio. Lantern. No. 941,922; Nov. 30; Sp. p. 7632; Gaz. vol. 148; p. 1285.  
 Henss, E., Nied-on-the-Main, Germany. Covering for earthenware pipes and the like. No. 925,809; June 22; Sp. p. 5715; Gaz. vol. 143; p. 990.  
 Hentz, J. I. (See Grayson and Hentz.)  
 Henzel, C. H., Pittsburg, Pa. Heater. No. 931,422; Aug. 17; Sp. p. 3804; Gaz. vol. 145; p. 657.  
 Henzelmann, F., Chicago, Ill. Ball-bearing. No. 929,426; July 27; Sp. p. 5652; Gaz. vol. 144; p. 992.  
 Henzelmann, F., Chicago, Ill. Antifriction-bearing. No. 929,427; July 27; Sp. p. 5653; Gaz. vol. 144; p. 992.  
 Hepburn, L. L., assignor to Marlin Firearms Company, New Haven, Conn. Firearm. No. 918,447; Apr. 13; Sp. p. 3007; Gaz. vol. 141; p. 529.  
 Hepburn, L. L., assignor to Marlin Firearms Company, New Haven, Conn. Firearm. No. 927,464; July 6; Sp. p. 1552; Gaz. vol. 144; p. 255.  
 Hepburn, L. L., assignor to Marlin Firearms Company, New Haven, Conn. Magazine-firearm. No. 943,828; Dec. 21; Sp. p. 3858; Gaz. vol. 149; p. 671.  
 Hepfer, H., *et al.* (See Horning, R. A., assignor.)  
 Hepler, H. C., Charleroi, Pa. Smoke-bell support. No. 914,273; Mar. 2; Sp. p. 1321; Gaz. vol. 140; p. 204.  
 Hepler, H. C., Charleroi, Pa. Shade and curtain bracket. No. 921,990; May 18; Sp. p. 3919; Gaz. vol. 142; p. 685.  
 Hepton, F., Woolwich, England. Billiard-table. No. 909,184; Jan. 12; Sp. p. 1553; Gaz. vol. 138; p. 280.  
 Hepworth, J. (See Burgess and Hepworth.)  
 Hepworth, J. W. (See Keyser, G., assignor.)  
 Herald, C. A., *et al.* (See Herald, W. J., assignor.)  
 Herald, W. J., assignor of one-half to S. O. Greening and C. A. Herald, Hamilton, Ontario, Canada. Wire lathing. No. 928,196; July 13; Sp. p. 3089; Gaz. vol. 144; p. 526.  
 Herbert, F. E., Chicago, Ill. Mail-bag-handling device. No. 923,174; June 1; Sp. p. 119; Gaz. vol. 143; p. 19.  
 Herbert, F. W., Pelham, N. H., assignor of one-half to T. J. Kennedy, Lowell, Mass. Non-refillable bottle. No. 940,687; Nov. 23; Sp. p. 4977; Gaz. vol. 148; p. 849.  
 Herbert, H. J., and D. Ward, assignors to J. Kelsey, trustee, Detroit, Mich. Spring-wheel. No. 935,982; Oct. 5; Sp. p. 815; Gaz. vol. 147; p. 121.  
 Herbert, J. M. (See Deane, L. H., assignor.)  
 Herbert, N., *et al.* (See Savoie, J., assignor.)  
 Herbert, S. (See Warren and Herbert.)  
 Herbrandson, H. E., Alcester, S. D. Trip mechanism for corn-planters. No. 944,189; Dec. 21; Sp. p. 4627; Gaz. vol. 149; p. 793.  
 Herbsleb, A. F., Cincinnati, Ohio. Separable stereotype plate and base. No. 937,803; Oct. 26; Sp. p. 4597; Gaz. vol. 147; p. 797.  
 Herbst, C. W. C. (See Ortmann and Herbst.)  
 Herbst, M., assignor to Bastian Brothers Company, Rochester, N. Y. Bill-file. No. 923,840; June 8; Sp. p. 1676; Gaz. vol. 143; p. 278.  
 Herbst, R., New York, N. Y. Composition of matter for molds. No. 933,982; Sept. 14; Sp. p. 2073; Gaz. vol. 146; p. 342.  
 Herbst, W., Berlin-Steglitz, and E. Dieckmann, Barmen-Unterbarmen, Germany. Fireproof girder. No. 910,059; Jan. 19; Sp. p. 3275; Gaz. vol. 138; p. 604.  
 Herby, J., Jamestown, N. Y. Fifth-wheel. No. 939,254; Nov. 9; Sp. p. 1742; Gaz. vol. 148; p. 303.  
 Herchenroether, H. A., *et al.* (See Harvey, F. R., assignor.)  
 Herchert, E. J., East Elkhart, Iowa. Chain. No. 924,551; June 8; Sp. p. 3130; Gaz. vol. 143; p. 510.  
 Hercker, J. (See Hall and Hercker.)  
 Hercules Light & Chemical Co. (See Offenber, M., assignor.)  
 Herd, C. E., Middlesboro, Ky. Trick lung-tester. No. 939,023; Nov. 2; Sp. p. 1235; Gaz. vol. 148; p. 197.  
 Herdegen, H., Stuttgart, Germany. Temporary binder. No. 911,396; Feb. 2; Sp. p. 728; Gaz. vol. 139; p. 125.  
 Hergelroth, H. G., Middletown, Pa. Folding tent. No. 928,448; July 20; Sp. p. 3646; Gaz. vol. 144; p. 642.  
 Hérissé, E., New York, N. Y. Machine for dipping confectionery and the like. No. 915,291; Mar. 16; Sp. p. 3377; Gaz. vol. 140; p. 590.  
 Hérissé, E., assignor to Herisse Manufacturing Company, New York, N. Y. Depositing-machine. No. 923,175; June 1; Sp. p. 121; Gaz. vol. 143; p. 19.  
 Herisse Manufacturing Company. (See Hérissé, E., assignor.)  
 Herkelrath, H. L., *et al.* (See Leavell, T. G., assignor.)  
 Herkner, E., Oberschöneweide, near Berlin, assignor to P. Hansen, Hanover, Germany. Weaving fabrics for tires. No. 923,520; June 1; Sp. p. 904; Gaz. vol. 143; p. 138.  
 Herkner, P. E. (See Kubierschky and Herkner.)  
 Herks, J., assignor of one-half to C. Wienshienk, St. Joseph, Mo. Shiftable instantaneous unloading device. No. 940,811; Nov. 23; Sp. p. 5256; Gaz. vol. 148; p. 892.  
 Herman, A., assignor to Eisenstadt Manufacturing Company, St. Louis, Mo. Stud or button. No. 919,864; Apr. 27; Sp. p. 6239; Gaz. vol. 141; p. 1064.  
 Herman, J., Lincoln, Nebr. Reducing ores. No. 909,795; Jan. 12; Sp. p. 2742; Gaz. vol. 138; p. 483.  
 Herman, J. L., Marblemount, Wash. Chicken-roost. No. 938,234; Oct. 26; Sp. p. 5519; Gaz. vol. 147; p. 943.  
 Herman, L., Chicago, Ill. Lantern. No. 910,681; Jan. 26; Sp. p. 4610; Gaz. vol. 138; p. 839.  
 Herman, R., Crafton, Pa. Frame structure for blue-printing apparatus. No. 942,175; Dec. 7; Sp. p. 323; Gaz. vol. 149; p. 49.  
 Hermann, A. (See Hermann and Bostrom, assignors.)  
 Hermann, C., Leipzig-Kl. Zschocher, Germany. Sheet-feeding apparatus for printing-presses. No. 941,778; Nov. 30; Sp. p. 7330; Gaz. vol. 148; p. 1235.  
 Hermann, C. A., and J. M. Bostrom; said Bostrom assignor to A. Hermann, Milwaukee, Wis. Bed-spring lifter. No. 911,980; Feb. 9; Sp. p. 1955; Gaz. vol. 139; p. 343.  
 Hermann, J., Saginaw, Mich. Bath-cabinet. No. 910,351; Jan. 19; Sp. p. 3984; Gaz. vol. 138; p. 716.  
 Hermann, J., New York, N. Y. Match-serving box. No. 913,132; Feb. 23; Sp. p. 4347; Gaz. vol. 139; p. 786.  
 Hermann, J., New York, N. Y. Needle-serving box. No. 938,235; Oct. 26; Sp. p. 5520; Gaz. vol. 147; p. 943.  
 Hermann, J. F., Moline, Ill. Hay-tedder. No. 940,968; Nov. 23; Sp. p. 5573; Gaz. vol. 148; p. 943.  
 Hermann, M. F., Philadelphia, Pa. Thermometer case and instrument. No. 943,676; Dec. 21; Sp. p. 3558; Gaz. vol. 149; p. 620.  
 Hermann, S., Cincinnati, Ohio. Shoe-rack. No. 940,812; Nov. 23; Sp. p. 5257; Gaz. vol. 148; p. 892.  
 Hermansen, M., and A. Tygerson, Ephraim, Utah. Electrically-heated grate. No. 931,605; Aug. 17; Sp. p. 4136; Gaz. vol. 145; p. 712.  
 Hermé, X., Fruitvale, Cal. Preparing carbide of calcium. No. 913,887; Mar. 2; Sp. p. 459; Gaz. vol. 140; p. 75.  
 Hermé, X., Fruitvale, Cal. Prepared carbide of calcium. No. 929,131; July 27; Sp. p. 5031; Gaz. vol. 144; p. 895.  
 Hermelic Closure Company. (See Beardsley and Wardell, assignors.)  
 Hermsdorf, M., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Barrel recoil-gun. No. 911,818; Feb. 9; Sp. p. 1558; Gaz. vol. 139; p. 290.  
 Hermsdorf, M., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Breech-closure. No. 927,855; July 13; Sp. p. 2404; Gaz. vol. 144; p. 411.  
 Hermsdorf, M., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Percussion-lock-gun. No. 932,016; Aug. 24; Sp. p. 5088; Gaz. vol. 145; p. 870.  
 Hermsdorf, M., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Breech-closure. No. 932,017; Aug. 24; Sp. p. 5092; Gaz. vol. 145; p. 871.  
 Hern, M. B., London, England. Violin and like stringed musical instrument. No. 919,722; Apr. 27; Sp. p. 5927; Gaz. vol. 141; p. 1017.  
 Herndon, E. H., Sanford, Fla. Motor. No. 945,001; Dec. 28; Sp. p. 6380; Gaz. vol. 149; p. 1095.  
 Herndon, W. T., Laurinburg, N. C. Holdback. No. 929,218; July 27; Sp. p. 5204; Gaz. vol. 144; p. 923.

*Alphabetical list of patentees—Continued.*

- Hernicz, J., South Bend, Ind. Lock. No. 941,250; Nov. 23; Sp. p. 6186; Gaz. vol. 148; p. 1038.
- Hero, C. J., assignor to J. F. Sayers, Milwaukee, Wis. Massaging and exercising implement. No. 932,780; Aug. 31; Sp. p. 6689; Gaz. vol. 145; p. 1148.
- Herod, O. L., Dunkard, Pa. Brake for vehicle-wheels. No. 935,204; Sept. 28; Sp. p. 4485; Gaz. vol. 146; p. 798.
- Herold, E., Brooklyn, N. Y. Brake. No. 940,461; Nov. 16; Sp. p. 4486; Gaz. vol. 148; p. 750.
- Heron, D. C. (See Livingston, J., assignor.)
- Heron, J. C., and A. C. Deverell, St. Paul, Minn. Journal-bearing. No. 935,022; Sept. 28; Sp. p. 4114; Gaz. vol. 146; p. 737.
- Héroult, P. L. T., La Praz, assignor to Societe Electro-Metallurgique Francaise, Froges, Isère, France. Electric furnace. No. 913,888; Mar. 2; Sp. p. 460; Gaz. vol. 140; p. 75.
- Héroult, P. L. T., La Praz, assignor to Societe Electro-Metallurgique Francaise, Froges, Isère, France. Operating electric furnaces. No. 914,346; Mar. 2; Sp. p. 1464; Gaz. vol. 140; p. 228.
- Héroult, P. L. T., La Praz, assignor to Societe Electro-Metallurgique Francaise, Froges, France. Treating ores. No. 930,666; Aug. 10; Sp. p. 2146; Gaz. vol. 145; p. 375.
- Herr, C. H., Philadelphia, Pa., assignor of one-eighth to H. P. Bridges, Baltimore, Md., and W. F. Brookes, Jr., Alexandria, Va., and one-eighth to W. J. Conlen, one-fourth to V. J. Hamilton, and one-half to Universal Gas Implement Company, Philadelphia, Pa. Gas-stove regulator. No. 929,090; July 27; Sp. p. 4936; Gaz. vol. 144; p. 880.
- Herr, H. C., Detroit, Mich. Apparatus for manufacturing multiply paper-board. No. 913,007; Feb. 23; Sp. p. 4105; Gaz. vol. 139; p. 744.
- Herr, H. C., Detroit, Mich. Paste-applying mechanism. No. 913,008; Feb. 23; Sp. p. 4106; Gaz. vol. 139; p. 745.
- Herre, A. (See Bauer and Herre.)
- Herreshoff, C., Bridgeport, Conn., assignor to Herreshoff Motor Company, Detroit, Mich. Gas or gasoline engine construction. No. 940,650; Nov. 16; Sp. p. 4832; Gaz. vol. 148; p. 812.
- Herreshoff, J. B. F., assignor to General Chemical Company, New York, N. Y. Purification of burner-gases. No. 940,595; Nov. 16; Sp. p. 4766; Gaz. vol. 148; p. 794.
- Herreshoff, J. B. F., assignor to General Chemical Company, New York, N. Y. Apparatus for purifying burner-gases. No. 940,596; Nov. 16; Sp. p. 4768; Gaz. vol. 148; p. 794.
- Herreshoff Motor Company. (See Herreshoff, C., assignor.)
- Herrick, A. B., assignor to Electric Railway Improvement Company, Cleveland, Ohio. Apparatus for bonding rails. No. 915,292; Mar. 16; Sp. p. 3381; Gaz. vol. 140; p. 590.
- Herrick, A. B., assignor to Electric Railway Improvement Company, Cleveland, Ohio. Clamping and heating device. No. 919,350; Apr. 27; Sp. p. 5126; Gaz. vol. 141; p. 889.
- Herrick, A. T., Bradford, Pa. Pipe-coupling. No. 921,247; May 11; Sp. p. 2355; Gaz. vol. 142; p. 413.
- Herrick, A. T., Bradford, Pa. Pipe-coupling. No. 925,770; June 22; Sp. p. 5633; Gaz. vol. 143; p. 977.
- Herrick, G. P., New York, N. Y. Counterbalanced bearing for rotary journals. No. 928,126; July 13; Sp. p. 2931; Gaz. vol. 144; p. 501.
- Herrick, W. H. (See Denison, N. B., assignor.)
- Herrick, W. J. (See La Batt, H. C., assignor.)
- Herring-Hall-Marvin Safe Company. (See Giesting, J. G., assignor.)
- Herring, J. M., Thornton, Tex. Potato-digger. No. 937,303; Oct. 19; Sp. p. 3543; Gaz. vol. 147; p. 612.
- Herring, W. G., Comanche, Tex. Road-repairing machine. No. 927,239; July 6; Sp. p. 1114; Gaz. vol. 144; p. 181.
- Herrington, A. W. S., Madison, N. J. Spark-plug. No. 916,313; Mar. 28; Sp. p. 5378; Gaz. vol. 140; p. 954.
- Herrington, M. (See Nichols, F. L., assignor.)
- Herritt, L., Cedar Run, assignor of two-thirds to C. J. Roberts and J. P. Reeves, Williamsport, Pa. Folding tack hammer and puller. No. 930,545; Aug. 10; Sp. p. 1899; Gaz. vol. 145; p. 335.
- Herrling, A., New York, N. Y. Combination wind and strigged instrument. No. 915,293; Mar. 16; Sp. p. 3383; Gaz. vol. 140; p. 591.
- Herrmann, E., Uster, Switzerland. Storage-receptacle. No. 944,435; Dec. 28; Sp. p. 5153; Gaz. vol. 149; p. 904.
- Herrmann, E., assignor to Compagnie Internationale La Norgine, Paris, France. Extracting iodine. No. 915,959; Mar. 23; Sp. p. 4723; Gaz. vol. 140; p. 838.
- Herrmann, E. W. F., San Antonio, Tex. Blind-slat adjuster. No. 929,428; July 27; Sp. p. 5654; Gaz. vol. 144; p. 993.
- Herrmann, W., Dusseldorf, assignor to Land-und Seekabelwerke Aktiengesellschaft, Cologne-Nippes, Germany. Photometer. No. 922,583; May 25; Sp. p. 5117; Gaz. vol. 142; p. 908.
- Herron, B. B., Toledo, Ohio. Step-operated circuit-breaker for electric cars. No. 932,018; Aug. 24; Sp. p. 5095; Gaz. vol. 145; p. 871.
- Herron, W. C., assignor of one-fifth to E. A. Reeves, Sarnia, Ontario, Canada. Apparatus for molding solid-link chains. No. 923,521; June 1; Sp. p. 905; Gaz. vol. 143; p. 139.
- Herschede, E. F., Cincinnati, Ohio. Clock. No. 909,298; Jan. 12; Sp. p. 1768; Gaz. vol. 138; p. 318.
- Herschede, E. F., Cincinnati, Ohio. Clock. No. 934,913; Sept. 21; Sp. p. 3890; Gaz. vol. 146; p. 675.
- Herschler, W. J., Buckingham, Ill. Cultivator-shovel. No. 922,584; May 25; Sp. p. 5117; Gaz. vol. 142; p. 908.
- Herschlay, W., Chicago, Ill. Vaginal syringe. No. 944,136; Dec. 21; Sp. p. 4524; Gaz. vol. 149; p. 776.
- Herschler, A. D., Ashland, Ohio. Stop-cock. No. 909,409; Jan. 12; Sp. p. 1974; Gaz. vol. 138; p. 352.
- Hersey, E. C. (See Dean, J. H., assignor.)
- Hersey, S., London, and E. W. Blake, South Croydon, assignors to Kirckham, Hulett & Chandler, Limited, London, England. Apparatus for effecting intimate contact of liquids and gases. No. 935,501; Sept. 28; Sp. p. 5062; Gaz. vol. 146; p. 894.
- Hersey, S. W., Portland, Me. Underground conduit for steam-pipes. No. 921,399; May 11; Sp. p. 2695; Gaz. vol. 142; p. 463.
- Hersey, S. W., Portland, Me. Steam-pipe conduit. No. 921,832; May 18; Sp. p. 3599; Gaz. vol. 142; p. 635.
- Hershberger, C. D. (See Smith and Hershberger.)
- Hershberger, J. H., Wilkes-Barre, Pa. Horseshoe. No. 938,858; Nov. 2; Sp. p. 867; Gaz. vol. 148; p. 140.
- Hershey, W. B. C., Columbus, Ohio. Detachable floor for vehicle-bodies. No. 940,154; Nov. 16; Sp. p. 3778; Gaz. vol. 148; p. 644.
- Hershey, W. B. C., and D. E. Huston, assignors to Excelsior Seat Company, Columbus, Ohio. Finishing-machine. No. 923,841; June 8; Sp. p. 1677; Gaz. vol. 143; p. 278.
- Hershiser, O. L., Buffalo, N. Y. Beeswax-extractor. No. 913,889; Mar. 2; Sp. p. 463; Gaz. vol. 140; p. 76.
- Hershko, J., Pittsburg, Pa. Curtain-pole. No. 920,058; Apr. 27; Sp. p. 6634; Gaz. vol. 141; p. 1123.
- Herskovitz, A., Chicago, Ill. Mantle-holder. No. 927,725; July 13; Sp. p. 2130; Gaz. vol. 144; p. 369.
- Herskovitz, M., Chicago, Ill. Incandescent gas-lamp. No. 919,430; Apr. 27; Sp. p. 5302; Gaz. vol. 141; p. 917.
- Herskovitz, M., Chicago, Ill. Attachment for incandescent gas-mantles. No. 924,459; June 8; Sp. p. 2937; Gaz. vol. 143; p. 481.
- Herskovitz, M., Chicago, Ill. Arc-shade for gas illumination and other uses. No. 927,726; July 13; Sp. p. 2131; Gaz. vol. 144; p. 369.
- Hertel, A. (See Wimmer, Hart, and Hertel.)
- Hertel, O. H. (See Partridge and Hertel.)
- Hertel, C. H., Memphis, Tenn., assignor to Baling Tie Buckle Company, Cleveland, Ohio. Baling-tie buckle. No. 927,044; July 6; Sp. p. 726; Gaz. vol. 144; p. 114.
- Hertz, H. (See Smoot and Hertz.)
- Hertzberg, H. (See Dinsmoor, J. L., assignor.)
- Hertzberg, H. (See Low and Hertzberg.)
- Hertzberg, H. (See Wohl and Hertzberg.)
- Hertzberg, H., et al., trustees. (See Low, A. A., assignor.)
- Hertzberg, H., et al., trustees. (See Wohl and Hertzberg, assignors.)
- Hertzberg, H., New York, N. Y. Electric needle-spray bath-brush. No. 929,947; Aug. 3; Sp. p. 689; Gaz. vol. 145; p. 110.
- Hertzberg, H., New York, assignor to A. A. Low, Horseshoe, N. Y. External electrical vaporizer for combustion-engines. No. 909,897; Jan. 19; Sp. p. 2955; Gaz. vol. 138; p. 549.
- Hertzberg, H., New York, and A. A. Low, Horseshoe, N. Y.; said Hertzberg assignor to said Low. Electric vaporizer for internal-combustion engines. No. 909,896; Jan. 19; Sp. p. 2950; Gaz. vol. 138; p. 548.
- Hertzberg, H., New York, and A. A. Low, Horseshoe, N. Y.; said Hertzberg assignor to said Low. Electrical vaporizer for internal-combustion engines. No. 909,899; Jan. 19; Sp. p. 2963; Gaz. vol. 138; p. 550.
- Hertzberg, H., New York, and A. A. Low, Horseshoe, N. Y.; said Hertzberg assignor to said Low. Electrically-heated starting-vaporizer for internal-combustion engines. No. 909,960; Jan. 19; Sp. p. 2967; Gaz. vol. 138; p. 550.
- Hertzberg, H., and M. J. Wohl, New York, assignors to Economy Electric Company, Brooklyn, N. Y. Electrically-operated stove. No. 918,747; Apr. 20; Sp. p. 3716; Gaz. vol. 141; p. 659.
- Hertzberg, H., and M. J. Wohl, New York, assignors to Economy Electric Company, Brooklyn, N. Y. Electrically-heated tool. No. 918,748; Apr. 20; Sp. p. 3719; Gaz. vol. 141; p. 660.
- Hertzberg, H., New York, A. A. Low, Horseshoe, and A. Wassmann, Astoria, N. Y.; said Hertzberg and Wassmann assignors to said Low. Internal electric starting-vaporizer for combustion-engines. No. 909,898; Jan. 19; Sp. p. 2958; Gaz. vol. 138; p. 549.
- Hertzberg, M. (See McMasters, E. H., assignor.)
- Hertzberg, M. von, Chicago, Ill. Binder for loose leaves. No. 941,198; Nov. 23; Sp. p. 6083; Gaz. vol. 148; p. 1021.
- Hertzler, E. E. (See Pollard, L. T., assignor.)



*Alphabetical list of patentees—Continued.*

- Hertzog, P., München-Gladbach, Germany. Cutting appliance for velvets, plushes, and similar fabrics. No. 933,983; Sept. 14; Sp. p. 2073; Gaz. vol. 146; p. 342.
- Herwig, W., Chicago, Ill. Lamp construction. No. 925,771; June 22; Sp. p. 5634; Gaz. vol. 143; p. 977.
- Herz, A. (See Schweitzer and Herz.)
- Herz, G. L., New York, N. Y. Pump. No. 918,319; Apr. 13; Sp. p. 2755; Gaz. vol. 141; p. 488.
- Herz, R. (See Kosak and Herz.)
- Herzberg, C. (See Spanuth and Dünnebler, assignors.)
- Herzberg, H., New York, N. Y. Let-off motion for looms. No. 909,596; Jan. 12; Sp. p. 2345; Gaz. vol. 138; p. 416.
- Herzberg, M. (See Runkel and Herzberg.)
- Herzfelder, I., New York, N. Y. Holder. No. 936,777; Oct. 12; Sp. p. 2466; Gaz. vol. 147; p. 410.
- Herzler, J., H. Henninger, and W. Fenner, Belleville, Ill. Mining-machine. No. 932,124; Aug. 24; Sp. p. 5317; Gaz. vol. 145; p. 906.
- Herzog, C. H. (See Klink and Herzog.)
- Herzog, C. H., assignor to Adder Machine Company, Kingston, Pa. Calculating-machine. No. 924,066; June 8; Sp. p. 2095; Gaz. vol. 143; p. 349.
- Herzog, F. (See Steingruber, G., assignor.)
- Herzog, J., Saginaw, Mich. Jointer. No. 919,351; Apr. 27; Sp. p. 5128; Gaz. vol. 141; p. 890.
- Herzog, J., Philadelphia, Pa., assignor to A. S. Houghton, Greenwich, Conn., and G. S. Williamson, New York, N. Y. Incandescent wick-burner. No. 942,035; Nov. 30; Sp. p. 7841; Gaz. vol. 143; p. 1321.
- Herzog, J. L., New York, N. Y. Article of jewelry. No. 917,604; Apr. 6; Sp. p. 1249; Gaz. vol. 141; p. 220.
- Herzog, J. L., New York, N. Y. Jewelry. No. 926,741; July 6; Sp. p. 74; Gaz. vol. 144; p. 11.
- Herzog, L. (See Pawlowolski, J., assignor.)
- Heskamp, G. M., Kokomo, Ind. Apparatus for treatment of metallic material. No. 931,599; Aug. 17; Sp. p. 4128; Gaz. vol. 145; p. 711.
- Heskett, T. J., and M. Moore, Melbourne, Victoria, Australia. Direct process of manufacturing iron and steel. No. 917,475; Apr. 6; Sp. p. 1022; Gaz. vol. 141; p. 178.
- Hespe, F. F., West Hoboken, N. J., and M. Larsen, New York, N. Y. Holder or support. No. 921,833; May 18; Sp. p. 3600; Gaz. vol. 142; p. 635.
- Hess, B., New York, assignor of one-half to J. Kronenberger, West Hampton Beach, N. Y. Amusement device. No. 933,445; Sept. 7; Sp. p. 920; Gaz. vol. 146; p. 141.
- Hess, C. F., assignor to Bank Specialty Manufacturing Company, Scranton, Pa. Coin-deposit apparatus. No. 930,667; Aug. 10; Sp. p. 2148; Gaz. vol. 145; p. 375.
- Hess, C. F., assignor to Bank Specialty Manufacturing Company, Scranton, Pa. Means for encouraging and facilitating the accumulation of savings. No. 933,754; Sept. 14; Sp. p. 1629; Gaz. vol. 146; p. 268.
- Hess, C. G., Port Worth, Tex. Nozzle. No. 914,490; Mar. 9; Sp. p. 1757; Gaz. vol. 140; p. 302.
- Hess, C. G., Center, Colo. Pneumatically-operated ignition device for gas-engines. No. 929,429; July 27; Sp. p. 5656; Gaz. vol. 144; p. 993.
- Hess, E. B., New York, N. Y., assignor to Royal Typewriter Company, Hoboken, N. J. Type-writing machine. No. 916,865; Mar. 30; Sp. p. 6470; Gaz. vol. 140; p. 1156.
- Hess, E. B., New York, N. Y., assignor to Royal Typewriter Company, Hoboken, N. J. Writing-machine. No. 924,460; June 8; Sp. p. 2938; Gaz. vol. 143; p. 481.
- Hess, E. B., New York, N. Y., assignor to Royal Typewriter Company, Hoboken, N. J. Writing-machine. No. 931,305; Aug. 17; Sp. p. 3574; Gaz. vol. 145; p. 616.
- Hess, F., Davenport, Iowa. Fruit, vegetable, and meat slicing machine. No. 918,320; Apr. 13; Sp. p. 2757; Gaz. vol. 141; p. 489.
- Hess, F. O., Coatsville, Mo. Mail-box flag. No. 932,547; Aug. 31; Sp. p. 6170; Gaz. vol. 145; p. 1070.
- Hess, G. (See Müller, O., assignor.)
- Hess, G., Pirna, Germany. Making albuminous bread. No. 911,722; Feb. 9; Sp. p. 1390; Gaz. vol. 139; p. 259.
- Hess, G., Monroeville, Ohio. Burial-vault. No. 938,379; Oct. 26; Sp. p. 5846; Gaz. vol. 147; p. 992.
- Hess, G. W., Hempstead, N. Y. Trap. No. 942,069; Dec. 7; Sp. p. 59; Gaz. vol. 149; p. 12.
- Hess, H., Philadelphia, Pa. Ball-bearing. No. 924,904; June 15; Sp. p. 3891; Gaz. vol. 143; p. 663.
- Hess, H., Philadelphia, Pa. Ball-bearing. No. 930,599; Aug. 10; Sp. p. 2011; Gaz. vol. 145; p. 352.
- Hess, H., Philadelphia, Pa. Roller-bearing. No. 941,636; Nov. 30; Sp. p. 7006; Gaz. vol. 148; p. 1185.
- Hess, H., Philadelphia, Pa. Ball-bearing. No. 944,863; Dec. 28; Sp. p. 6120; Gaz. vol. 149; p. 1051.
- Hess, H., Wawa, Pa. Antifriction-bearing. No. 929,762; Aug. 3; Sp. p. 275; Gaz. vol. 145; p. 47.
- Hess, H., Wawa, Pa. Antifriction-bearing. No. 929,851; Aug. 3; Sp. p. 488; Gaz. vol. 145; p. 78.
- Hess, H., Wawa, Pa. Journal-bearing. No. 931,924; Aug. 24; Sp. p. 4893; Gaz. vol. 145; p. 839.
- Hess, H., Providence, R. I., assignor to Hansen-Bennett Company, Attleboro, Mass. Jewel-setting. No. 931,306; Aug. 17; Sp. p. 3580; Gaz. vol. 145; p. 617.
- Hess, H. K., Philadelphia, Pa. Motive-power apparatus. No. 912,567; Feb. 16; Sp. p. 3199; Gaz. vol. 139; p. 573.
- Hess, H. K., Philadelphia, Pa. Roasting ores. No. 912,568; Feb. 16; Sp. p. 3203; Gaz. vol. 139; p. 574.
- Hess, H. K., assignor of one-half to T. O. Peirce, Philadelphia, Pa. Electric storage battery. No. 912,242; Feb. 9; Sp. p. 2465; Gaz. vol. 139; p. 425.
- Hess, H. L., Ashland, assignor to Columbian Hardware Company, Cleveland, Ohio. Check for swing-doors. No. 925,184; June 15; Sp. p. 4450; Gaz. vol. 143; p. 759.
- Hess, J. J., Jr., Tarentum, Pa. Curtain-pole support and shade-roller hanger. No. 915,598; Mar. 16; Sp. p. 4001; Gaz. vol. 140; p. 691.
- Hess, W. H., Dewey, Okla. Pulverizer. No. 910,196; Jan. 19; Sp. p. 3562; Gaz. vol. 138; p. 648.
- Hessberger, J. (See Schönherr and Hessberger.)
- Hesse, F., assignor to Columbia Steel Company, Portland, Oreg. Hydraulic ram. No. 936,244; Oct. 5; Sp. p. 1323; Gaz. vol. 147; p. 203.
- Hesse, J. W. (See Koch, R. J., assignor.)
- Hesse, L. (See Günther and Hesse.)
- Hesse, L., O. Günther, Elberfeld, and A. Zart, Vohwinkel, near Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 931,423; Aug. 17; Sp. p. 3806; Gaz. vol. 145; p. 658.
- Hesse, L., O. Günther, Elberfeld, and A. Zart, Vohwinkel, near Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 931,424; Aug. 17; Sp. p. 3807; Gaz. vol. 145; p. 658.
- Hesse, L., O. Günther, Elberfeld, and A. Zart, Vohwinkel, near Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 933,446; Sept. 7; Sp. p. 922; Gaz. vol. 146; p. 141.
- Hesse, L., O. Günther, Elberfeld, and A. Zart, Vohwinkel, near Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 933,447; Sept. 7; Sp. p. 923; Gaz. vol. 146; p. 142.
- Hesse, L., O. Günther, Elberfeld, and A. Zart, Vohwinkel, near Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 933,448; Sept. 7; Sp. p. 925; Gaz. vol. 146; p. 142.
- Hesse, L., O. Günther, Elberfeld, and A. Zart, Vohwinkel, near Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 933,562; Sept. 7; Sp. p. 1232; Gaz. vol. 146; p. 181.
- Hesse, W. A. (See Sanborn and Hesse.)
- Hesselman, K. J. E., Stockholm, Sweden. Vaporizer for internal-combustion engines. No. 910,534; Jan. 26; Sp. p. 4304; Gaz. vol. 138; p. 790.
- Hesselman, K. J. E., Stockholm, Sweden. Fuel-injecting nozzle for internal-combustion engines. No. 910,535; Jan. 26; Sp. p. 4306; Gaz. vol. 138; p. 790.
- Hessenauer, J., Galion, Ohio. Land-roller. No. 923,431; June 1; Sp. p. 718; Gaz. vol. 143; p. 106.
- Hesser, O., Cannstatt, Germany. Paper-bag machine. No. 938,486; Nov. 2; Sp. p. 74; Gaz. vol. 148; p. 13.
- Hessler, G., Buffalo, N. Y. Combined screen and storm door. No. 917,605; Apr. 6; Sp. p. 1252; Gaz. vol. 141; p. 220.
- Hessom, B. F., Jr., assignor of one-half to W. J. Bailey, Aspinwall, Pa. Advertising medium. No. 935,502; Sept. 28; Sp. p. 5064; Gaz. vol. 146; p. 894.
- Hesson, W. W., Toronto, Ontario, Canada. Stair-carpet fastener. No. 942,641; Dec. 7; Sp. p. 1271; Gaz. vol. 149; p. 208.
- Hestness, B., assignor of one-half to I. J. Blätkan, Rockford, Wash. Wire-stretcher. No. 912,960; Feb. 16; Sp. p. 3988; Gaz. vol. 139; p. 702.
- Hestness, B., assignor of one-half to I. J. Blätkan, Rockford, Wash. Grape-picker. No. 917,063; Apr. 6; Sp. p. 204; Gaz. vol. 141; p. 38.
- Heston, S. A. D., Greenville, Ill. Gate. No. 924,067; June 8; Sp. p. 2097; Gaz. vol. 143; p. 350.
- Hetherington, C., Chicago, Ill. Rotary engine. No. 911,127; Feb. 2; Sp. p. 198; Gaz. vol. 139; p. 38.
- Hetherington, F. A., Indianapolis, Ind. Drier. No. 913,497; Feb. 23; Sp. p. 5087; Gaz. vol. 139; p. 909.
- Hetherington, T. J., Youngstown, Ohio. Capping-machine for incandescent bulbs. No. 935,503; Sept. 28; Sp. p. 5065; Gaz. vol. 146; p. 895.
- Hetherington, W., assignor of one-fourth to W. C. Alexander, Everest, one-fourth to C. F. Teetor, Oskaloosa, and one-fourth to G. C. Dana, Everest, Kans. Clothes-line prop. No. 940,875; Nov. 23; Sp. p. 5383; Gaz. vol. 148; p. 912.
- Hettel, A. (See Beal and Hettel.)
- Hetterschled, W., Grand Rapids, Mich. Type-writer cabinet. No. 909,796; Jan. 12; Sp. p. 2743; Gaz. vol. 138; p. 483.
- Hettrich, J., Grand Island, Nebr. Corn-harvester. No. 917,606; Apr. 6; Sp. p. 1253; Gaz. vol. 141; p. 221.
- Heuer, F., Weimar, Germany. Convertible gas-harp. No. 933,072; Sept. 7; Sp. p. 68; Gaz. vol. 146; p. 12.

*Alphabetical list of patentees—Continued.*

- Heuer, J. P., Pittsburg, Pa. Rail-joint. No. 937,600; Oct. 19; Sp. p. 4177; Gaz. vol. 147; p. 712.
- Heulings, S. M., assignor to Star Milk Cooler Company, Haddonfield, N. J. Bottle-locking bar. No. 928,197; July 13; Sp. p. 3090; Gaz. vol. 144; p. 526.
- Heulings, W. H. (See Malocsay, F. X., assignor.)
- Heulings, W. H., Jr. (See Malocsay, F. X., assignor.)
- Heulings, W. H., Jr. (See Smith, W. M., assignor.)
- Heupel, F. K., assignor of one-half to I. B. Nordlinger, Washington, D. C. Stemming-roller for tobacco-stemming machines. No. 937,601; Oct. 19; Sp. p. 4179; Gaz. vol. 147; p. 712.
- Heupel, F. K., assignor of one-half to I. B. Nordlinger, Washington, D. C. Tobacco-stemming machine. No. 937,602; Oct. 19; Sp. p. 4180; Gaz. vol. 147; p. 712.
- Heupel, H. A. (See Schnellbach and Heupel.)
- Heuser, G. (See Nathan and Heuser.)
- Heusser, A. (See Heusser, W. and A.)
- Heusser, W., Salt Lake City, Utah. Balance. No. 924,663; June 15; Sp. p. 3376; Gaz. vol. 143; p. 582.
- Heusser, W. and A., Salt Lake City, Utah. Protecting-casing for balances and other instruments. No. 934,526; Sept. 21; Sp. p. 3128; Gaz. vol. 146; p. 545.
- Heustis, C. H., et al. (See MacFarland, A. M., assignor.)
- Heverling, J. B., St. Louis, Mo. Power-truck. No. 941,677; Nov. 30; Sp. p. 7094; Gaz. vol. 148; p. 1199.
- Hewitt, A., Harrow, England. Printing-press. No. 927,351; July 6; Sp. p. 1304; Gaz. vol. 144; p. 216.
- Hewitt, A. W., Bogota, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 921,834; May 18; Sp. p. 3602; Gaz. vol. 142; p. 635.
- Hewitt, C. B. (See Zackey, W. W., assignor.)
- Hewitt, H. B., Indianapolis, Ind. Scythe-snath. No. 922,139; May 18; Sp. p. 4199; Gaz. vol. 142; p. 734.
- Hewitt, H. H. (See Sill, S. J., assignor.)
- Hewitt, J., trustee. (See Belmer, C. G., assignor.)
- Hewitt, J. C., Athens, Ohio. Grip for wire-fence stretchers. No. 923,842; June 8; Sp. p. 1679; Gaz. vol. 143; p. 278.
- Hewitt, J. C., Athens, Ohio. Wire-fence stretcher. No. 923,843; June 8; Sp. p. 1681; Gaz. vol. 143; p. 279.
- Hewitt, J. E. (See Bates, S. L., assignor.)
- Hewitt, J. E., League City, Tex. Wagon-brake. No. 940,249; Nov. 16; Sp. p. 3985; Gaz. vol. 148; p. 678.
- Hewitt, J. E., assignor of one-fourth to C. Franz, Newark, N. J. Melting-furnace. No. 918,150; Apr. 13; Sp. p. 2414; Gaz. vol. 141; p. 432.
- Hewitt, J. H., Tunis, Tex. Sweep-stock attachment for plows. No. 928,653; July 20; Sp. p. 4063; Gaz. vol. 144; p. 708.
- Hewitt, J. H., Birmingham, England. Loose-leaf binder and the like. No. 936,891; Oct. 12; Sp. p. 2686; Gaz. vol. 147; p. 448.
- Hewitt, J. H., Edgbaston, Birmingham, assignor of one-half to J. Walker, Jr., London, England. Loose-leaf book, temporary binder, file, and the like. No. 944,554; Dec. 28; Sp. p. 5440; Gaz. vol. 149; p. 946.
- Hewitt, J. M. O. (See Atwood, L., assignor.)
- Hewitt, P. C., assignor to Cooper Hewitt Electric Company, New York, N. Y. Gas or vapor electric lamp. No. 939,912; Nov. 9; Sp. p. 3216; Gaz. vol. 148; p. 530.
- Hewitt, R. B., and J. G. Nolen; said Nolen assignor of one-half to F. B. Cook, Chicago, Ill. Automatic fire-extinguisher and signaling system. No. 938,859; Nov. 2; Sp. p. 867; Gaz. vol. 148; p. 140.
- Hewlett, E. M. (See Buck and Hewlett.)
- Hewlett, E. M. (See Emmet and Hewlett.)
- Hewlett, E. M., and E. B. Merriam, Schenectady, N. Y., assignors to General Electric Company. Lightning-arrester. No. 928,049; July 13; Sp. p. 2804; Gaz. vol. 144; p. 477.
- Hews, C. A. (See Manning, W. H., assignor.)
- Hext, W. A., Cincinnati, Ohio. Leaf-turner for sheet-music. No. 923,522; June 1; Sp. p. 907; Gaz. vol. 143; p. 139.
- Hey, H., Dewsbury, England. Apparatus for impregnating and extracting liquids from fabrics. No. 923,971; June 8; Sp. p. 1921; Gaz. vol. 143; p. 320.
- Heybach, F. J., assignor to American Automatic Machinery Company, Savannah, Ga. Can-filling machine. No. 935,504; Sept. 28; Sp. p. 5068; Gaz. vol. 146; p. 895.
- Heybach, F. J., assignor to American Automatic Machinery Company, Savannah, Ga. Can-capping machine. No. 935,505; Sept. 28; Sp. p. 5083; Gaz. vol. 146; p. 896.
- Heybach, F. J., assignor to American Automatic Machinery Company, Savannah, Ga. Filling and capping apparatus. No. 935,506; Sept. 28; Sp. p. 5092; Gaz. vol. 146; p. 896.
- Heydegger, J. A. A., Newark, N. J. Overflow-alarm. No. 915,348; Mar. 16; Sp. p. 3485; Gaz. vol. 140; p. 608.
- Heydon, D. W., Spokane, Wash. Game-board. No. 922,897; May 25; Sp. p. 5789; Gaz. vol. 142; p. 1009.
- Heydon, D. W., Spokane, Wash. Street-railway switch. No. 934,527; Sept. 21; Sp. p. 3131; Gaz. vol. 146; p. 546.
- Heydon, E., Indianapolis, Ind. Trolley switch-plate. No. 935,304; Sept. 28; Sp. p. 4680; Gaz. vol. 146; p. 831.
- Heyenga, M. W., Chicago, Ill. Running-gear for vehicles. No. 925,579; June 22; Sp. p. 5194; Gaz. vol. 143; p. 914.
- Heyer, E., Hackensack, N. J. Envelop. No. 914,274; Mar. 2; Sp. p. 1321; Gaz. vol. 140; p. 204.
- Heyl-Dia, G. E., Stratton, England. Exhibiting-machine. No. 908,668; Jan. 5; Sp. p. 509; Gaz. vol. 138; p. 80.
- Heyl & Patterson. (See Robb, L. J., assignor.)
- Heylandt, P., Erfurt, assignor, by direct and mesne assignments, to Society "Flüssige Luft" Maschinen und Apparate-System Paulus Heylandt, G. m. b. H., Hanover, Germany. Lamp. No. 914,954; Mar. 9; Sp. p. 2699; Gaz. vol. 140; p. 453.
- Heyman, E. M., assignor to Janesville Machine Company, Janesville, Wis. Cultivator. No. 922,427; May 18; Sp. p. 4777; Gaz. vol. 142; p. 828.
- Heymann, F. E., Noblesville, Ind. Vehicle-top door. No. 936,892; Oct. 12; Sp. p. 2688; Gaz. vol. 147; p. 448.
- Heym, F., and R. Kimmel, Benrath, near Düsseldorf, Germany. Mechanism for raising crane-jibs and the like which move in a vertical plane. No. 913,289; Feb. 23; Sp. p. 4670; Gaz. vol. 139; p. 838.
- Heyn, F. H. C. (See Gutt and Heyn.)
- Heyne, A. von, Berlin, Germany. Locking device for boxes and the like. No. 926,742; July 6; Sp. p. 76; Gaz. vol. 144; p. 11.
- Heyne, C. G., J. B. Hayward, and W. M. McCarthy, assignors, by mesne assignments, to National Cash Register Company, Dayton, Ohio. Recording-lock. No. 929,305; July 27; Sp. p. 5411; Gaz. vol. 144; p. 952.
- Heys, J. J., Lynn, Mass., assignor, by mesne assignments to Manufacturers Machine Company, Montclair, N. J. Buffing-machine. No. 940,015; Nov. 16; Sp. p. 3443; Gaz. vol. 148; p. 594.
- Heys, J. J., Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Breaster-knife-grinding machine. No. 944,238; Dec. 21; Sp. p. 4710; Gaz. vol. 149; p. 807.
- Heyser, F. J. (See Hulscher, W. T., assignor.)
- Heywang, J. J., Jr., and M. Slater, New York, N. Y. Expanding brush. No. 925,909; June 22; Sp. p. 5919; Gaz. vol. 143; p. 1023.
- Heywood Brothers and Wakefield Company. (See Watkins, E. G., assignor.)
- Heywood, H. F. (See Cord and Heywood.)
- Hiatt, O. C., Elwood, Ind. Flue-block mold. No. 942,779; Dec. 7; Sp. p. 1544; Gaz. vol. 149; p. 254.
- Hiatt, W. F., Danville, assignor of one-half to M. E. McHaffie, Greencastle, Ind. Combined insulator and lightning-arrester. No. 927,045; July 6; Sp. p. 727; Gaz. vol. 144; p. 115.
- Hibbard, A. E. (See Hibbard, E. M., assignor.)
- Hibbard, E. M., assignor of one-half to A. E. Hibbard, Bolivar, N. Y. Polished-rod gripper. No. 930,179; Aug. 3; Sp. p. 1173; Gaz. vol. 145; p. 191.
- Hibbard, G. E., Chicago, Ill. Automatic sprinkler-head. No. 922,140; May 18; Sp. p. 4200; Gaz. vol. 142; p. 734.
- Hibbard, H. D., Plainfield, N. J., assignor to Manganese Steel Safe Company, New York, N. Y. Safe or vault door. No. 916,444; Mar. 30; Sp. p. 5646; Gaz. vol. 140; p. 1023.
- Hibbard, L. R., assignor of one-fourth to C. Benedict and one-fourth to J. H. Knapp, Los Angeles, Cal. Differential axle device. No. 928,198; July 13; Sp. p. 3092; Gaz. vol. 144; p. 526.
- Hibbard, M. W., assignor to R. Fitzgerald, Chicago, Ill. Steam pumping-engine. No. 938,146; Oct. 26; Sp. p. 5325; Gaz. vol. 147; p. 911.
- Hibbard, T., Minneapolis, Minn. Ventilating-support for armature-teeth. No. 917,064; Apr. 6; Sp. p. 205; Gaz. vol. 141; p. 38.
- Hibberd, C. E., Auckland, New Zealand, assignor to Hibberd Prepayment Machine Syndicate Limited. Coin-freed machine. No. 928,050; July 13; Sp. p. 2805; Gaz. vol. 144; p. 478.
- Hibberd, C. E., Devonport, New Zealand, assignor to Hibberd Prepayment Machine Syndicate Limited. Coin-freed machine. No. 929,306; July 27; Sp. p. 5418; Gaz. vol. 144; p. 953.
- Hibberd Prepayment Machine Syndicate. (See Hibberd, C. E., assignor.)
- Hibbert, J. E., Stirling City, Cal. Band-saw-moving machine. No. 932,987; Aug. 31; Sp. p. 7060; Gaz. vol. 145; p. 1214.
- Hibschle, H. J., Victor, assignor to McCormick Drill and Manufacturing Company, Incorporated, Denver, Colo. Rock-drill. No. 924,350; June 8; Sp. p. 2736; Gaz. vol. 143; p. 446.
- Hibschle, H. J., Victor, assignor to McCormick Drill and Manufacturing Company, Cripple Creek, Colo. Rock-drill. No. 941,251; Nov. 23; Sp. p. 6187; Gaz. vol. 148; p. 1038.



*Alphabetical list of patentees—Continued.*

- Hick, H. J., Alliance, Ohio. Feed device for saw and like machines. No. 940,016; Nov. 16; Sp. p. 3445; Gaz. vol. 148; p. 595.
- Hickey, A. S., Venice, Cal. Fish-hook. No. 911,040; Feb. 2; Sp. p. 33; Gaz. vol. 139; p. 8.
- Hickey, H. J., Tomahawk, Wis. Fire-hose coupling. No. 941,990; Nov. 30; Sp. p. 7759; Gaz. vol. 148; p. 1307.
- Hickey, W. (See Schmucker, A. P., assignor.)
- Hickey, W. J., Reno, Nev. Automatic folding fender. No. 935,788; Oct. 5; Sp. p. 391; Gaz. vol. 147; p. 57.
- Hickley, A. S., Manasquan, N. J. Railway-signal-operating device. No. 924,227; June 8; Sp. p. 2490; Gaz. vol. 143; p. 404.
- Hickman, J. E. (See Baldwin, N., assignor.)
- Hickman, J. F., Tampa, Fla. Composite support for posts and poles. No. 943,747; Dec. 21; Sp. p. 3703; Gaz. vol. 149; p. 644.
- Hickman, P. H., Newark, N. J., T. A. Hickman, Brooklyn, N. Y., and J. F. Fell, Newark, N. J. Last-cord fastener. No. 928,605; July 20; Sp. p. 3968; Gaz. vol. 144; p. 692.
- Hickman, T. A. (See Hickman and Pell.)
- Hickok, R. D., Atlanta, Ga. Electric clock. No. 930,754; Aug. 10; Sp. p. 2325; Gaz. vol. 145; p. 403.
- Hickok, T. H. (See Lyon and Hickok.)
- Hicks, C. E., and E. Wigan, London, England; said Wigan assignor to said Hicks. Illusion amusement device. No. 924,068; June 8; Sp. p. 2099; Gaz. vol. 143; p. 350.
- Hicks, C. W., assignor to Surf Light and Power Company, Los Angeles, Cal. Wave-motor. No. 932,278; Aug. 24; Sp. p. 5615; Gaz. vol. 145; p. 958.
- Hicks, E. J., Indianapolis, Ind. Pneumatic tire. No. 911,041; Feb. 2; Sp. p. 35; Gaz. vol. 139; p. 8.
- Hicks, G. C., Jr., assignor to P. H. & F. M. Roots Company, Connersville, Ind. Muffler. No. 938,860; Nov. 2; Sp. p. 880; Gaz. vol. 148; p. 141.
- Hicks, G. J., Ardsley, N. Y. Dough mixing and kneading machine. No. 913,133; Feb. 23; Sp. p. 4348; Gaz. vol. 139; p. 787.
- Hicks, H. J., Salt Lake City, Utah. Shoe-ventilator. No. 925,772; June 22; Sp. p. 5635; Gaz. vol. 143; p. 977.
- Hicks Improved Engine Brake Company. (See Hicks, J. A., assignor.)
- Hicks, J. A., Atlanta, Ga. Air-control steam-valve. No. 936,535; Oct. 12; Sp. p. 1979; Gaz. vol. 147; p. 326.
- Hicks, J. A., Summit, N. J., assignor to Auto Stopper Company, New York, N. Y. Sealing vessels. No. 936,893; Oct. 12; Sp. p. 2690; Gaz. vol. 147; p. 449.
- Hicks, J. A., assignor to Hicks Improved Engine Brake Company, Atlanta, Ga. Fluid-pressure brake system. No. 944,485; Dec. 28; Sp. p. 5267; Gaz. vol. 149; p. 921.
- Hicks, J. A., assignor to Hicks Improved Engine Brake Company, Atlanta, Ga. Fluid-pressure brake system. No. 944,486; Dec. 28; Sp. p. 5277; Gaz. vol. 149; p. 922.
- Hicks, J. B., Houston, Tex. Piston-connecting rod. No. 930,473; Aug. 10; Sp. p. 1709; Gaz. vol. 145; p. 309.
- Hicks, J. M., Summit, N. J., assignor to Auto Stopper Company, New York, N. Y. Means for sealing vessels. No. 934,072; Sept. 14; Sp. p. 2245; Gaz. vol. 146; p. 370.
- Hicks, J. T., Medford, Mass. Canceling-box for waiters' checks. No. 909,088; Jan. 5; Sp. p. 1343; Gaz. vol. 138; p. 215.
- Hicks, J. W., Goldsboro, N. C. Air-brake system. No. 940,314; Nov. 16; Sp. p. 4150; Gaz. vol. 148; p. 700.
- Hicks, L. C., Troy, N. Y. Tie-clasp. No. 915,176; Mar. 16; Sp. p. 3154; Gaz. vol. 140; p. 553.
- Hicks, P. S., assignor of one-half to W. T. Rose, Rocky Mount, N. C. Trap. No. 909,797; Jan. 12; Sp. p. 2744; Gaz. vol. 138; p. 483.
- Hicks Speed Indicator Company. (See Knopf, C., assignor.)
- Hicks, W. W., Butler, Okla. Railway-tie. No. 920,953; May 11; Sp. p. 1762; Gaz. vol. 142; p. 312.
- Hickson, J. S., Nathalie, Va. Rail-joint. No. 931,117; Aug. 17; Sp. p. 3145; Gaz. vol. 145; p. 551.
- Hickton, C., Long Eaton, England. Twist-lace machine. No. 921,698; May 18; Sp. p. 3313; Gaz. vol. 142; p. 590.
- Hickton, C., Long Eaton, England. Lace-machine. No. 934,914; Sept. 21; Sp. p. 3891; Gaz. vol. 146; p. 675.
- Hidden, C. P., New York, N. Y., assignor to Standard Stopper Company, Jersey City, N. J. Equalizing mechanism. No. 924,069; June 8; Sp. p. 2101; Gaz. vol. 143; p. 351.
- Hiergesell, E., Richmond Hill, assignor to C. L. Tagliabue, Brooklyn, N. Y. Measuring instrument. No. 920,868; May 4; Sp. p. 1587; Gaz. vol. 142; p. 253.
- Hiering, C., and A. Fuller, assignors to J. E. Mergott Company, Newark, N. J. Bag-frame. No. 928,973; July 27; Sp. p. 4696; Gaz. vol. 144; p. 842.
- Hiering, C., and A. Fuller, assignors to J. E. Mergott Company, Newark, N. J. Purse or bag frame. No. 939,255; Nov. 9; Sp. p. 1744; Gaz. vol. 148; p. 303.
- Hiering, C., and A. Fuller, assignors to J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 939,256; Nov. 9; Sp. p. 1745; Gaz. vol. 148; p. 304.
- Hiering, C., and A. Fuller, assignors to J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 939,257; Nov. 9; Sp. p. 1748; Gaz. vol. 148; p. 304.
- Hiering, C., and A. Fuller, assignors to J. E. Mergott Company, Newark, N. J. Bag-frame catch. No. 939,913; Nov. 9; Sp. p. 3218; Gaz. vol. 148; p. 530.
- Hiestand, W. H., Chicago, Ill. Target-trap. No. 938,861; Nov. 2; Sp. p. 882; Gaz. vol. 148; p. 141.
- Higin, H., assignor to Higin Manufacturing Company, Newport, Ky. Curtain-fastener. No. 923,523; June 1; Sp. p. 909; Gaz. vol. 143; p. 140.
- Higin, H., assignor to Higin Manufacturing Company, Newport, Ky. Weather-strip for windows. No. 934,609; Sept. 21; Sp. p. 3295; Gaz. vol. 146; p. 574.
- Higin, H., assignor to Higin Manufacturing Company, Newport, Ky. Window-screen. No. 934,610; Sept. 21; Sp. p. 3299; Gaz. vol. 146; p. 574.
- Higin Manufacturing Company. (See Higin, H., assignor.)
- Higinbottom, H., et al. (See Krutch, W. W., assignor.)
- Higgins, A., Waverly, Ky. Gate-hinge. No. 937,804; Oct. 26; Sp. p. 4598; Gaz. vol. 147; p. 797.
- Higgins, A. C. (See Mustlar, N., assignor.)
- Higgins, A. C., Worcester, Mass. Treating aluminous materials and products thereof. No. 916,866; Mar. 30; Sp. p. 6473; Gaz. vol. 140; p. 1156.
- Higgins, A. C., Worcester, Mass. Treating aluminous materials. No. 929,219; July 27; Sp. p. 5205; Gaz. vol. 144; p. 923.
- Higgins, A. C., Worcester, Mass. Treating aluminous materials. No. 930,376; Aug. 10; Sp. p. 1522; Gaz. vol. 145; p. 276.
- Higgins, A. C., Worcester, Mass. Electric furnace. (Reissue.) No. 13,027; Oct. 26; Sp. p. 6031; Gaz. vol. 147; p. 1018.
- Higgins, A. C., and G. N. Jeppson, Worcester, Mass. Treating electric-furnace products. No. 944,436; Dec. 28; Sp. p. 5155; Gaz. vol. 149; p. 905.
- Higgins, A. E., and J. D. Ormrod, Emaus, Pa. Core-cutting machine. No. 944,137; Dec. 21; Sp. p. 4525; Gaz. vol. 149; p. 777.
- Higgins, A. G., assignor of one-half to P. M. Havens, Kansas City, Mo. Store-front and show-case construction. No. 915,599; Mar. 16; Sp. p. 4003; Gaz. vol. 140; p. 691.
- Higgins, D. H., Oakland, Cal. Corn-popper. No. 937,372; Oct. 19; Sp. p. 3688; Gaz. vol. 147; p. 634.
- Higgins, E., Lansing, Mich. Internal-combustion engine. No. 942,070; Dec. 7; Sp. p. 60; Gaz. vol. 149; p. 12.
- Higgins, E., Lansing, Mich. Governor for internal-combustion engines. No. 942,071; Dec. 7; Sp. p. 62; Gaz. vol. 149; p. 12.
- Higgins, E. E., St. Paul, Minn. Invalid's chair. No. 928,051; July 13; Sp. p. 2808; Gaz. vol. 144; p. 478.
- Higgins, F. H. W., London, England. Perforating and punching instrument. No. 923,792; June 1; Sp. p. 1552; Gaz. vol. 143; p. 232.
- Higgins, I. L. (See Brunner and Higgins.)
- Higgins, J. N. (See Veit and Higgins.)
- Higgins, J. W., Somerville, Mass. Clamping device. No. 938,862; Nov. 2; Sp. p. 883; Gaz. vol. 148; p. 141.
- Higgins, R. (See Adams, W. T., assignor.)
- Higgins, R. (See Adams and Higgins.)
- Higgins, S. W., assignor of one-half to F. H. Farnsworth, Detroit, Mich. Vehicle-wheel. No. 933,708; Sept. 7; Sp. p. 1525; Gaz. vol. 146; p. 230.
- Higgins, W. S. (See Antisell, F. L., assignor.) (Reissue.)
- Higginson, J., Jr., and H. Arundel, Stockport, England. Yarn or thread winding, doubling, gassing, and like machine. No. 941,319; Nov. 23; Sp. p. 6332; Gaz. vol. 148; p. 1059.
- High, F. J., West Lebanon, Ind. Insulator. No. 908,463; Jan. 5; Sp. p. 56; Gaz. vol. 138; p. 12.
- High, J. P., Fairview, Okla. Flue-expander. No. 908,669; Jan. 5; Sp. p. 510; Gaz. vol. 138; p. 80.
- High, J. P., Fairview, Okla. Flue-expander. No. 935,366; Sept. 28; Sp. p. 4815; Gaz. vol. 146; p. 851.
- Highfield, J. C., Scranton, Pa. Lawn-mower. No. 912,127; Feb. 9; Sp. p. 2256; Gaz. vol. 139; p. 390.
- Highland Falls Manufacturing Company. (See Whitney, W. C., assignor.)
- Highspeed Dry Concentrating Company. (See Bonson and McLaughlin, assignors.)
- Hightower, C., Huntsville, assignor of one-half to M. L. Ryan, Rushville, Ill. Colter attachment for plows. No. 941,252; Nov. 23; Sp. p. 6190; Gaz. vol. 148; p. 1039.
- Hightower, J. C., Jr., and C. A. Burrell, Alto, N. Mex. Ter. Sight for firearms. No. 920,137; May 4; Sp. p. 95; Gaz. vol. 142; p. 14.
- Higley, E. N., assignor to M. Higley, Somersworth, N. H. Pruning implement. No. 913,290; Feb. 23; Sp. p. 4672; Gaz. vol. 139; p. 838.

*Alphabetical list of patentees—Continued.*

- Higley, G., assignor to Cleveland Hardware Company, Cleveland, Ohio. Frame-section of vehicle running-gear. No. 911,240; Feb. 2; Sp. p. 434; Gaz. vol. 139; p. 75.
- Higley, M. (See Higley, E. N., assignor.)
- Higley Machine Company. (See Juengst, C. A., assignor.) (Reissue.)
- Higman, W. J., Denver, Colo. Cushioned wheel for vehicles. No. 941,453; Nov. 30; Sp. p. 6642; Gaz. vol. 148; p. 1126.
- Hilfman, A. T., and J. H. Clough, Luke, Md. Automatic stock-regulator for paper-making machines. No. 920,741; May 4; Sp. p. 1316; Gaz. vol. 142; p. 213.
- Hilbig, A. M., Milwaukee, Wis. Building construction. No. 930,377; Aug. 10; Sp. p. 1523; Gaz. vol. 145; p. 276.
- Hilborn, H. H., and C. E. Roehl, New York, N. Y. Reinforcing tubular structures. No. 909,299; Jan. 12; Sp. p. 1770; Gaz. vol. 138; p. 183.
- Hilchey, C. A. (See Hope, Farquhar, and Hilchey.)
- Hilckman, A. H. (See Wheeler and Hilckman.)
- Hilckmann, K., assignor of one-half to W. W. Wehner, Cincinnati, Ohio. Spittoon-carrier. No. 919,723; Apr. 27; Sp. p. 5928; Gaz. vol. 141; p. 1017.
- Hilde, H., Rosswein, Germany. Glass-blowing machine. No. 915,960; Mar. 23; Sp. p. 4725; Gaz. vol. 140; p. 838.
- Hildebrand, C. C. (See Bailey and Hildebrand.)
- Hildebrandt, C., Dusseldorf, Germany. Machine for cutting, beveling splitting, and grooving leather. No. 940,390; Nov. 16; Sp. p. 4342; Gaz. vol. 148; p. 737.
- Hildebrandt, G., assignor of one-half to W. W. Marsh, Spokane, Wash. Vibrating propeller. No. 943,074; Dec. 14; Sp. p. 2275; Gaz. vol. 149; p. 385.
- Hildenbrand, H., New York, N. Y. Tapping device. No. 915,961; Mar. 23; Sp. p. 4729; Gaz. vol. 140; p. 839.
- Hildenbrand, W. B., Norristown, Pa. Check-holder. No. 917,864; Apr. 13; Sp. p. 1815; Gaz. vol. 141; p. 332.
- Hilderbrand, E. E. (See Ashby, L. A., assignor.)
- Hildreth, F. F. (See Arp and Hildreth.)
- Hildreth, L., Pine Grove, Ky. Fan attachment for chairs. No. 940,688; Nov. 23; Sp. p. 4979; Gaz. vol. 148; p. 850.
- Hildreth, W. W. (See Webb and Hildreth.)
- Hile, J. H., Belton, Ark. Telegraph and telephone pole. No. 931,425; Aug. 17; Sp. p. 3809; Gaz. vol. 145; p. 658.
- Hiler, W. M., Quincy, Ill. Railway-switch-throwing device. No. 933,563; Sept. 7; Sp. p. 1233; Gaz. vol. 146; p. 181.
- Hiler, W. M., Quincy, Ill. Train-pipe coupling. No. 936,894; Oct. 12; Sp. p. 2692; Gaz. vol. 147; p. 449.
- Hiles, T. L., Chicago, Ill. Headlight. No. 918,151; Apr. 13; Sp. p. 2416; Gaz. vol. 141; p. 433.
- Hilgenstock, G., Dahlhausen-on-the-Ruhr, Germany. Obtaining by-products from gases. No. 928,974; July 27; Sp. p. 4699; Gaz. vol. 144; p. 842.
- Hilger, G. M., Chicago, Ill. Steam-trap. No. 913,498; Feb. 23; Sp. p. 5089; Gaz. vol. 139; p. 909.
- Hill, A. A., New York, N. Y. Antislipping attachment for horseshoes. No. 918,853; Apr. 20; Sp. p. 3942; Gaz. vol. 141; p. 693.
- Hill, A. A., New York, N. Y. Hose-coupling. No. 936,627; Oct. 12; Sp. p. 2177; Gaz. vol. 147; p. 360.
- Hill, A. B., Hoboken, N. J. Window-screen. No. 936,895; Oct. 12; Sp. p. 2694; Gaz. vol. 147; p. 449.
- Hill, A. C. (See Taylor and Muller, assignors.)
- Hill, A. D., assignor of four-twelfths to A. J. Dunlevy, Excelsior Springs, Mo., and one-twelfth to J. C. Williams. Hat rack and lock. No. 930,289; Aug. 3; Sp. p. 1349; Gaz. vol. 145; p. 223.
- Hill, A. H. (See Farquhar and Hill.)
- Hill, A. J., Woodford Green, and F. C. D. Mann, Hayes, England. Apparatus for electrically igniting gas-burners. No. 942,901; Dec. 14; Sp. p. 1848; Gaz. vol. 149; p. 325.
- Hill, B., Kiowa, Kans. Clothes-pin receptacle. No. 929,430; July 27; Sp. p. 5658; Gaz. vol. 144; p. 993.
- Hill, B. B., assignor to B. B. Hill Manufacturing Company, Philadelphia, Pa. Reversible ribbon-feed for dating-stamps. No. 942,827; Dec. 7; Sp. p. 1643; Gaz. vol. 149; p. 268.
- Hill, B. W., Somerville, assignor of one-half to F. M. Sheldon, Newton, Mass. Vacuum-breaker and alarm. No. 912,243; Feb. 9; Sp. p. 2467; Gaz. vol. 139; p. 425.
- Hill, C. F., Blanket, Tex. Steering mechanism for motor-plows. No. 933,984; Sept. 14; Sp. p. 2074; Gaz. vol. 146; p. 342.
- Hill, C. M., and E. P. Zahnter, Highland, Cal. Cooking utensil. No. 928,383; July 20; Sp. p. 3513; Gaz. vol. 144; p. 620.
- Hill, C. W., New York, N. Y. Foot or leg attachment for use in swimming. No. 913,382; Feb. 23; Sp. p. 4863; Gaz. vol. 139; p. 870.
- Hill, E., Norwalk, Conn. Engine-governor. No. 931,870; Aug. 24; Sp. p. 4746; Gaz. vol. 145; p. 822.
- Hill, E., Amsden, Ohio. Chicken-separator. No. 942,902; Dec. 14; Sp. p. 1851; Gaz. vol. 149; p. 326.
- Hill, E., Jr., Norwalk, Conn. Tide-set-calculating instrument for navigators. No. 944,437; Dec. 28; Sp. p. 5156; Gaz. vol. 149; p. 905.
- Hill, E. A., assignor to Chicago Grain Door Company, Chicago, Ill. Combined hanger and track for car-doors. No. 942,324; Dec. 7; Sp. p. 629; Gaz. vol. 149; p. 100.
- Hill, E. E., and E. S. Gray, Farmington, N. H. Rack or holder. No. 935,507; Sept. 28; Sp. p. 5100; Gaz. vol. 146; p. 897.
- Hill, E. K., Cleveland, Ohio. Oil-burner. No. 938,236; Oct. 26; Sp. p. 5521; Gaz. vol. 147; p. 944.
- Hill, E. L. (See Dolcater, W. C., assignor.)
- Hill, E. R., East Orange, N. J. Insulator. No. 929,132; July 27; Sp. p. 5032; Gaz. vol. 144; p. 895.
- Hill, G. A., Tomlinson, Ark. Churn. No. 924,461; June 8; Sp. p. 2941; Gaz. vol. 143; p. 481.
- Hill, G. F., San Antonio, Tex. Portable waiter. No. 927,533; July 13; Sp. p. 1706; Gaz. vol. 144; p. 304.
- Hill, G. H., Schenectady, N. Y., assignor to General Electric Company. Electric heater. No. 910,682; Jan. 26; Sp. p. 4611; Gaz. vol. 138; p. 839.
- Hill, G. H., Schenectady, N. Y., assignor to General Electric Company. Controlling-switch. No. 912,128; Feb. 9; Sp. p. 2258; Gaz. vol. 139; p. 391.
- Hill, G. H., Schenectady, N. Y., assignor to General Electric Company. Rail-bond. No. 919,577; Apr. 27; Sp. p. 5635; Gaz. vol. 141; p. 968.
- Hill, G. H., Schenectady, N. Y., assignor to General Electric Company. Relay. No. 919,578; Apr. 27; Sp. p. 5635; Gaz. vol. 141; p. 968.
- Hill, G. H., Schenectady, N. Y., assignor to General Electric Company. Control apparatus. No. 927,465; July 6; Sp. p. 1554; Gaz. vol. 144; p. 255.
- Hill, G. H., Schenectady, N. Y., assignor to General Electric Company. Selective A.C.-D.C. system. No. 935,023; Sept. 28; Sp. p. 4115; Gaz. vol. 146; p. 738.
- Hill, G. S., Bradford, assignor to Hill Motor Car Company, Haverhill, Mass. Sparking mechanism for automobiles. No. 920,326; May 4; Sp. p. 484; Gaz. vol. 142; p. 76.
- Hill, G. S., Bradford, assignor to Hill Motor Car Company, Haverhill, Mass. Steering-gear for automobiles. No. 927,143; July 6; Sp. p. 925; Gaz. vol. 144; p. 149.
- Hill, H., West Haven, Conn. Machine for expanding cut and corrugated metal. No. 919,166; Apr. 20; Sp. p. 4545; Gaz. vol. 141; p. 795.
- Hill, H. J., Jersey City, N. J. Mail-delivering appliance for railway-trains. No. 939,688; Nov. 9; Sp. p. 2742; Gaz. vol. 148; p. 453.
- Hill, I. H., Berkeley, assignor to N. C. Hill, Oakland, Cal. Forming-die. No. 936,999; Oct. 12; Sp. p. 2893; Gaz. vol. 147; p. 483.
- Hill, J. A., and M. W., Jacksonville, Tex. Steam-engine. No. 921,400; May 11; Sp. p. 2696; Gaz. vol. 142; p. 463.
- Hill, J. B., Findlay, Ohio. Ditching-machine. No. 941,145; Nov. 23; Sp. p. 5963; Gaz. vol. 148; p. 1003.
- Hill, J. C., Chicago, Ill. Lubricator. No. 910,060; Jan. 19; Sp. p. 3275; Gaz. vol. 138; p. 604.
- Hill, J. E., Lexington, N. C. Car-door hanger. No. 914,411; Mar. 9; Sp. p. 1615; Gaz. vol. 140; p. 275.
- Hill, J. E., Menasha, assignor of two-thirds to W. M. Gilbert and T. M. Gilbert, Neenah, Wis. Pump-valve. No. 918,448; Apr. 13; Sp. p. 3011; Gaz. vol. 141; p. 529.
- Hill, J. F. (See Schroeter, C., assignor.)
- Hill, J. F., and C. M. Peckham, Norwalk, Ohio. Mold. No. 916,705; Mar. 30; Sp. p. 6185; Gaz. vol. 140; p. 1107.
- Hill, J. G., Cincinnati, Ohio. Composite railway-rail tie. No. 935,983; Oct. 5; Sp. p. 817; Gaz. vol. 147; p. 121.
- Hill, L. A., Washington, D. C. Driving mechanism. No. 915,858; Mar. 23; Sp. p. 4537; Gaz. vol. 140; p. 806.
- Hill, L. A., Washington, D. C., assignor to American Resilient Wheel Company. Vehicle-wheel. No. 924,614; June 8; Sp. p. 3267; Gaz. vol. 143; p. 532.
- Hill, M. A., Tolley, N. D. Paper receptacle. No. 916,867; Mar. 30; Sp. p. 6474; Gaz. vol. 140; p. 1156.
- Hill, M. W. (See Hill, J. A., and M. W.)
- Hill Motor Car Company. (See Hill, G. S., assignor.)
- Hill, N. C. (See Hill, I. H., assignor.)
- Hill, O. C., Roxbury, Mass. Feeding mechanism. No. 913,134; Feb. 23; Sp. p. 4353; Gaz. vol. 139; p. 787.
- Hill-Ray Engineering Company. (See Ray, T. H., assignor.)
- Hill, W., Albany, N. Y. Railway-cuspidor. No. 935,508; Sept. 28; Sp. p. 5101; Gaz. vol. 146; p. 897.
- Hill, W. E., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Cord connector and rack. No. 914,045; Mar. 2; Sp. p. 847; Gaz. vol. 140; p. 130.
- Hill, W. H., and H. B. Wright, Chicago, Ill. Dump-wagon. No. 913,135; Feb. 23; Sp. p. 4357; Gaz. vol. 139; p. 787.
- Hill, W. W., Sumter, Minn. Lock-out telephone system. No. 935,024; Sept. 28; Sp. p. 4118; Gaz. vol. 146; p. 738.
- Hillard, E., Meriden, Conn. Lug for tie-bands or hoops for silos, &c. No. 920,742; May 4; Sp. p. 1317; Gaz. vol. 142; p. 213.
- Hillard, F. W. (See Babcock, W. G., assignor.)



*Alphabetical list of patentees—Continued.*

- Hillard, F. W., Tottenville, N. Y. Type-writing machine. No. 923,120; May 25; Sp. p. 6236; Gaz. vol. 142; p. 1081.  
 Hillard, F. W., Tottenville, N. Y. Type-writing machine. No. 923,121; May 25; Sp. p. 6240; Gaz. vol. 142; p. 1081.  
 Hille, H., Oak Park, Ill. Railway-tie. No. 917,065; Apr. 6; Sp. p. 206; Gaz. vol. 141; p. 38.  
 Hille, H., Oak Park, Ill. Railway-tie. No. 932,781; Aug. 31; Sp. p. 6690; Gaz. vol. 145; p. 1148.  
 Hille, W. J., assignor to National Arms and Stamping Company, Philadelphia, Pa. Roller-skate. No. 918,321; Apr. 13; Sp. p. 2759; Gaz. vol. 141; p. 489.  
 Hille, W. J., assignor to National Arms and Stamping Company, Philadelphia, Pa. Roller-skate. No. 920,327; May 4; Sp. p. 485; Gaz. vol. 142; p. 76.  
 Hille, W. J., assignor to National Arms and Stamping Company, Philadelphia, Pa. Extensible roller-skate. No. 944,991; Dec. 28; Sp. p. 6365; Gaz. vol. 149; p. 1093.  
 Hillebrand, H., and M. Jack, New York, N. Y. Pressure-regulator. No. 919,013; Apr. 20; Sp. p. 4269; Gaz. vol. 141; p. 747.  
 Hillen, N. T. (See Nord and Hillen.)  
 Hillenbrand, H. A., Louisville, Ky. Interchangeable spring tool-holder for lathes. No. 935,656; Oct. 5; Sp. p. 63; Gaz. vol. 147; p. 12.  
 Hiller, G., Zittau, Germany. Warp-twisting machine. No. 913,499; Feb. 23; Sp. p. 5091; Gaz. vol. 139; p. 910.  
 Hiller, G. F. (See French and Hiller.)  
 Hiller, N. H., assignor to Carbondale Machine Company, Carbondale, Pa. Chilling-machine. No. 922,898; May 25; Sp. p. 5791; Gaz. vol. 142; p. 1010.  
 Hilliard, E. H. (See Skaala and Hilliard.)  
 Hilliard, J. D., Albany, N. Y. Line-support. No. 914,837; Mar. 9; Sp. p. 2492; Gaz. vol. 140; p. 416.  
 Hilliard, J. D., Jr., and C. E. Parsons, Glens Falls, N. Y. Air or water blast magnet. No. 923,653; June 1; Sp. p. 1203; Gaz. vol. 143; p. 185.  
 Hilliker, J. A., Chicago, Ill. Egg-crate. No. 915,177; Mar. 16; Sp. p. 3155; Gaz. vol. 140; p. 553.  
 Hilliker, J. A., Chicago, Ill. Egg-crate. No. 915,294; Mar. 16; Sp. p. 3385; Gaz. vol. 140; p. 591.  
 Hilliker, J. A., Chicago, Ill., assignor to Cushion Carton Mfg. Co., Grand Rapids, Mich. Fruit-package. No. 937,805; Oct. 26; Sp. p. 4599; Gaz. vol. 147; p. 797.  
 Hilliker, W. C., Columbus, Ohio. Gas-consuming heating-stove. No. 910,536; Jan. 26; Sp. p. 4307; Gaz. vol. 138; p. 791.  
 Hillman, C. J., London, England. Photographic-printing device. No. 920,138; May 4; Sp. p. 96; Gaz. vol. 142; p. 14.  
 Hillman, J. H., Pittsburg, Pa. Means for supplying air to coke-ovens. No. 924,462; June 8; Sp. p. 2942; Gaz. vol. 143; p. 481.  
 Hillon, H. K., Omaha, Nebr. Sash-lock. No. 909,901; Jan. 19; Sp. p. 2971; Gaz. vol. 138; p. 550.  
 Hills, H. C. (See Schafer and Hills.)  
 Hills, L., Grand Rapids, assignor of one-half to C. B. De Peel, Kalkaska, Mich. Reversible rotary steam-engine. No. 933,037; Aug. 31; Sp. p. 7176; Gaz. vol. 145; p. 1231.  
 Hills, L. W. (See Hills, W. J., assignor.)  
 Hills, M. J., et al. (See Leavell, T. G., assignor.)  
 Hills, W. C., Colburn, Idaho. Pencil. No. 919,167; Apr. 20; Sp. p. 4548; Gaz. vol. 141; p. 795.  
 Hills, W. J., Waterford, assignor to L. W. Hills, Erie, Pa. Combined window-sash lift and lock. No. 917,430; Apr. 6; Sp. p. 941; Gaz. vol. 141; p. 164.  
 Hills, W. W., Kalkaska, Mich. Rein-holder for attachment to vehicles. No. 929,592; July 27; Sp. p. 5946; Gaz. vol. 144; p. 1046.  
 Hillstrom, E. I. (See Lindqvist and Hillstrom.)  
 Hillyard, L. O. (See Butler, C. L., assignor.)  
 Hillyard, L. O. (See Rafother, F. D., assignor.)  
 Hillyard, N. S., St. Joseph, Mo. Electric-ian air-spreader. No. 915,178; Mar. 16; Sp. p. 3157; Gaz. vol. 140; p. 553.  
 Hillyard, N. S., and G. M. Booth, St. Joseph, Mo. Adjustable ventilating sash-lock. No. 913,291; Feb. 23; Sp. p. 4674; Gaz. vol. 139; p. 839.  
 Hilo Gum Company. (See Linde, C. M., assignor.)  
 Hilo Gum Company. (See Linde and Franke, assignors.)  
 Hilpert, G., Salem, W. Va. Sash-lock. No. 915,600; Mar. 16; Sp. p. 4005; Gaz. vol. 140; p. 692.  
 Hilton, C. L. (See Hubbell and Hilton.)  
 Hilton, I., Philadelphia, Pa. Cloth-folder or hem-gage. No. 944,094; Dec. 21; Sp. p. 4424; Gaz. vol. 149; p. 762.  
 Hilton, J. N., Dayton, Ohio. Sash-holder. No. 939,500; Nov. 9; Sp. p. 2332; Gaz. vol. 148; p. 387.  
 Himebaugh, C. D., Burr Oak, Mich. Sled. No. 915,766; Mar. 23; Sp. p. 4378; Gaz. vol. 140; p. 777.  
 Himes, T. P. (See Nichols and Himes.)  
 Himes, T. P., Edgewood, R. I. Tape. No. 939,839; Nov. 9; Sp. p. 3057; Gaz. vol. 148; p. 504.  
 Himmel, G., Tuebingen, Germany. Apparatus for controlling gas-lamps. No. 909,089; Jan. 5; Sp. p. 1344; Gaz. vol. 138; p. 215.  
 Himmel, S., Baltimore, Md. Show-case. No. 910,817; Jan. 26; Sp. p. 4893; Gaz. vol. 138; p. 883.  
 Himmelwright, A. L. A., New York, N. Y., assignor to New Jersey Wire Cloth Company, Trenton, N. J. Concrete beam protection. No. 915,295; Mar. 16; Sp. p. 3388; Gaz. vol. 140; p. 592.  
 Hinchman, G. N., Webster Groves, assignor to Standard Adding Machine Company, St. Louis, Mo. Adding-machine. No. 916,445; Mar. 30; Sp. p. 5648; Gaz. vol. 140; p. 1023.  
 Hineck, J. F., Minneapolis, Minn. Hose-coupling. No. 935,984; Oct. 5; Sp. p. 819; Gaz. vol. 147; p. 122.  
 Hinderland, L., Chicago, Ill. Suspended railway. No. 919,352; Apr. 27; Sp. p. 5130; Gaz. vol. 141; p. 890.  
 Hinders, E., and J. Eickstma, Sibley, Iowa. Belt-shifter. No. 913,890; Mar. 2; Sp. p. 466; Gaz. vol. 140; p. 76.  
 Hindman, G. L., Worthington, Pa. Package-tie. No. 941,991; Nov. 30; Sp. p. 7760; Gaz. vol. 148; p. 1307.  
 Hindman, G. L., assignor of one-half to J. F. Graff, Worthington, Pa. Wrench. No. 920,059; Apr. 27; Sp. p. 6635; Gaz. vol. 141; p. 1128.  
 Hinds, D. C., Newton, Ill. Farm-gate. No. 929,431; July 27; Sp. p. 5659; Gaz. vol. 144; p. 994.  
 Hinds, H. J., Hillyard, Wash. Adjustable hanger for lights. No. 944,786; Dec. 28; Sp. p. 5939; Gaz. vol. 149; p. 1024.  
 Hinds, J. L., assignor to Crouse-Hinds Company, Syracuse, N. Y. Coupling for electric conductors. No. 939,501; Nov. 9; Sp. p. 2333; Gaz. vol. 148; p. 387.  
 Hinds, J. L., assignor to Crouse-Hinds Company, Syracuse, N. Y. Coupling for electric conductors. No. 939,689; Nov. 9; Sp. p. 2746; Gaz. vol. 148; p. 453.  
 Hinds, O. H., Le Mars, Iowa. Gas lighting and extinguishing apparatus. No. 911,009; Jan. 26; Sp. p. 5238; Gaz. vol. 138; p. 944.  
 Hine, A. P. (See Coe, J. R., assignor.)  
 Hine, A. P., assignor to Coe Brass Manufacturing Company, Waterbury, Conn. Means for extruding hollow bodies. No. 941,365; Nov. 30; Sp. p. 6440; Gaz. vol. 148; p. 1096.  
 Hine, L. S., Brandon, Manitoba, Canada. Saucepan-lid. No. 922,281; May 18; Sp. p. 4497; Gaz. vol. 142; p. 780.  
 Hine, S. K., and W. R. Phibbs, Girard, Ohio. Blast-furnace. No. 915,601; Mar. 16; Sp. p. 4006; Gaz. vol. 140; p. 692.  
 Hine, W. O., assignor to Cleveland Gas & Electric Fixture Company, Cleveland, Ohio. Packing-case. No. 917,066; Apr. 6; Sp. p. 207; Gaz. vol. 141; p. 39.  
 Hines, A., Wasco, Oreg. Draft-equalizer. No. 931,925; Aug. 24; Sp. p. 4894; Gaz. vol. 145; p. 839.  
 Hines, D. B., Norfolk, Nebr. Boiler-flue connection. No. 920,743; May 4; Sp. p. 1318; Gaz. vol. 142; p. 213.  
 Hines, E. L., Wilmington, N. C. Buckle for compressed bales. No. 920,328; May 4; Sp. p. 486; Gaz. vol. 142; p. 76.  
 Hines, G. E., New York, assignor of one-half to W. T. Daley, Brooklyn, N. Y. Telegraph system. No. 918,322; Apr. 13; Sp. p. 2760; Gaz. vol. 141; p. 489.  
 Hingley, H. M., and J. E. Fletcher, Dudley, England. Ship's anchor. No. 913,292; Feb. 23; Sp. p. 4675; Gaz. vol. 139; p. 839.  
 Hinkelbein, B. J., New Albany, Ind. Brake mechanism. No. 935,152; Sept. 28; Sp. p. 4383; Gaz. vol. 146; p. 782.  
 Hinkel, P., Chicago, Ill. Paper. No. 940,969; Nov. 23; Sp. p. 5575; Gaz. vol. 148; p. 944.  
 Hinken, H., Wirt, Minn. Bow-facing-oar lock. No. 928,449; July 20; Sp. p. 3647; Gaz. vol. 144; p. 642.  
 Hinkens, G. F., Wilmerding, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Brake-rod coupling-jaws. No. 936,453; Oct. 12; Sp. p. 1806; Gaz. vol. 147; p. 300.  
 Hinkle, E. C., Palmyra, N. J. Game apparatus. No. 920,462; May 4; Sp. p. 749; Gaz. vol. 142; p. 120.  
 Hinkle, L. C., Shreve, Ohio. Fence-wiring clamp. No. 928,127; July 13; Sp. p. 2939; Gaz. vol. 144; p. 502.  
 Hinkle, S. (See Doran, Sturm, and Hinkle.)  
 Hinkle, W. A. (See Boland and Hinkle.)  
 Hinks-Martin, H., A. W. Cameron, and P. J. Packman, London, England. Talking-machine. No. 921,835; May 18; Sp. p. 3605; Gaz. vol. 142; p. 636.  
 Hinnens, W. H. (See Reenstierna, G. L., assignor.)  
 Hinrichs, C., Frankfurt-on-the-Main, Germany. Refrigerator or cooler. No. 909,597; Jan. 12; Sp. p. 2347; Gaz. vol. 138; p. 416.  
 Hinshaw, W. T., Valley Station, Ky. Vehicle-brake. No. 941,876; Nov. 30; Sp. p. 7546; Gaz. vol. 148; p. 1269.  
 Hinsley, B. (See Pendergast and Hinsley.)  
 Hinton, E., Stockville, Nebr. Voting-booth. No. 937,806; Oct. 26; Sp. p. 4602; Gaz. vol. 147; p. 797.  
 Hinton, M. C. (See Musselman, P., assignor.)  
 Hintz, O. F., assignor to Farrand Organ Company, Detroit, Mich. Adjustable tracker for piano-players. No. 920,571; May 4; Sp. p. 968; Gaz. vol. 142; p. 571.

*Alphabetical list of patentees—Continued.*

- Hintz, W. G., and W. E. Althouse, Reading, Pa. Window-ventilator. No. 932,861; Aug. 31; Sp. p. 6834; Gaz. vol. 145; p. 1173.
- Hintze, A. F., deceased, Chicago, Ill.; E. L. Hintze, administratrix. Gearing for meters. No. 940,638; Nov. 16; Sp. p. 4857; Gaz. vol. 148; p. 808.
- Hintze, E. L., administratrix. (See Hintze, A. F.)
- Hinz, J. C., Detroit, Mich. Oil-burner. No. 920,572; May 4; Sp. p. 969; Gaz. vol. 142; p. 158.
- Hiorth, K. A. F., Christiania, Norway. Reducing ores. No. 934,170; Sept. 14; Sp. p. 2457; Gaz. vol. 146; p. 404.
- Hipwood, G., Lakeport, N. H. Bumper-guard. No. 920,060; Apr. 27; Sp. p. 6636; Gaz. vol. 141; p. 1129.
- Hire, H. E., Mark Center, Ohio. Game. No. 939,024; Nov. 2; Sp. p. 1236; Gaz. vol. 148; p. 198.
- Hirner, E. A., Allentown, Pa., assignor to Novelty Hosiery Company. Plating device for knitting-machines. No. 911,656; Feb. 9; Sp. p. 1264; Gaz. vol. 139; p. 237.
- Hirsch, B., New York, N. Y. Album for phonograph record-disks. No. 909,410; Jan. 12; Sp. p. 1975; Gaz. vol. 138; p. 352.
- Hirsch, I., Chicago, Ill. Kitchen-frame. No. 929,220; July 27; Sp. p. 5206; Gaz. vol. 144; p. 923.
- Hirsch, M., New York, N. Y. Heating apparatus. No. 932,418; Aug. 24; Sp. p. 5875; Gaz. vol. 145; p. 1003.
- Hirsch, R., Kansas City, Mo. Measuring-cover for cans. No. 928,052; July 13; Sp. p. 2810; Gaz. vol. 144; p. 478.
- Hirschberg, H. M. (See Dinsmoor, J. L., assignor.)
- Hirschfeld, H., Frankfort-on-the-Main, Germany. Boot-lace. No. 932,125; Aug. 24; Sp. p. 5321; Gaz. vol. 145; p. 907.
- Hirschhorn, Firm of J. (See Schmidt, E., assignor.)
- Hirsh, B. U. (See Stroock and Hirsh.)
- Hirsh, F., New York, N. Y. Hose-supporter. No. 919,168; Apr. 20; Sp. p. 4549; Gaz. vol. 141; p. 796.
- Hirst, J. G. (See Rhodes, Hirst, Parker, and Tavernor.)
- Hirt, F. E., Milwaukee, Wis., assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 931,606; Aug. 17; Sp. p. 4137; Gaz. vol. 145; p. 713.
- Hirth, A., Cannstatt, Germany, assignor to E. G. Hoffmann, deceased, New Rochelle, N. Y.; A. W. Kiddler and A. M. Baumann executors. Double-thrust ball-bearing. No. 930,600; Aug. 10; Sp. p. 2012; Gaz. vol. 145; p. 353.
- Hirth, C. A., Cannstatt, near Stuttgart, Germany. Feeding device for machine-tools and the like. No. 909,300; Jan. 12; Sp. p. 1773; Gaz. vol. 138; p. 319.
- Hirth, C. A., Cannstatt-Stuttgart, Germany. Ball-grinding machine. No. 939,502; Nov. 9; Sp. p. 2334; Gaz. vol. 148; p. 387.
- Hirtzler, T., Litcher, La. Journal-box. No. 937,603; Oct. 19; Sp. p. 4183; Gaz. vol. 147; p. 712.
- Hirz, J. H., et al. (See Cloos, J., assignor.)
- Hirzel, H., Leipzig-Plagwitz, Germany. Recovering purifying materials. No. 913,500; Feb. 23; Sp. p. 5097; Gaz. vol. 139; p. 910.
- Hiscock, E. C., assignor to W. W. Kimball Company, Chicago, Ill. Means for preventing interference in assembling self-playing pianos. No. 913,137; Feb. 23; Sp. p. 4363; Gaz. vol. 139; p. 788.
- Hiscock, E. C., assignor to W. W. Kimball Company, Chicago, Ill. Pneumatic action for self-playing instruments. No. 920,744; May 4; Sp. p. 1319; Gaz. vol. 142; p. 214.
- Hiscock, E. C., assignor to W. W. Kimball Company, Chicago, Ill. Self-playing piano. No. 920,954; May 11; Sp. p. 1763; Gaz. vol. 142; p. 312.
- Hiscock, J. H., Minneapolis, Minn. Knockdown cupboard and wardrobe. No. 943,075; Dec. 14; Sp. p. 2276; Gaz. vol. 149; p. 386.
- Hisey, I. K., and R. M. Wardle, Carlton, Ore. Water-filter. No. 939,418; Nov. 9; Sp. p. 2168; Gaz. vol. 148; p. 360.
- Hiss, J. D., Omaha, Nebr. Granulating-machine. No. 920,869; May 4; Sp. p. 1589; Gaz. vol. 142; p. 254.
- Hiss, W. J., Jr., New York, N. Y., assignor to Diamond Expansion Bolt Company. Cable-hanger. No. 934,808; Sept. 21; Sp. p. 3686; Gaz. vol. 146; p. 640.
- Hissink, J., assignor to Bergmann Elektricitäts Werke Aktiengesellschaft, Berlin, Germany. Cooling device for the rotary members of electric machines. No. 914,046; Mar. 2; Sp. p. 848; Gaz. vol. 140; p. 131.
- Hissong, J. E., Coshocton, Ohio. Window-lock. No. 922,899; May 25; Sp. p. 5793; Gaz. vol. 142; p. 1010.
- Hitch, B. T., Allen, Md. Telpher system. No. 933,564; Sept. 7; Sp. p. 1234; Gaz. vol. 146; p. 181.
- Hitchcock, C. A., Pana, Ill. Stack-former. No. 923,844; June 8; Sp. p. 1683; Gaz. vol. 143; p. 279.
- Hitchcock, G. A., Ware, Mass. Delivery-chute. No. 924,351; June 8; Sp. p. 2738; Gaz. vol. 143; p. 446.
- Hitchcock, H. K., Tarentum, Pa. Grading materials. No. 934,441; Sept. 21; Sp. p. 2972; Gaz. vol. 146; p. 518.
- Hitchcock, H. K., Tarentum, Pa. Grinding apparatus. No. 934,442; Sept. 21; Sp. p. 2975; Gaz. vol. 146; p. 519.
- Hitchcock, H. K., Tarentum, Pa. Apparatus for grading materials. No. 934,611; Sept. 21; Sp. p. 3304; Gaz. vol. 146; p. 575.
- Hitchcock, H. K., Tarentum, Pa. Grinding apparatus. No. 934,612; Sept. 21; Sp. p. 3305; Gaz. vol. 146; p. 575.
- Hitchcock, H. K., Tarentum, Pa. Railway-frog. No. 935,205; Sept. 28; Sp. p. 4487; Gaz. vol. 146; p. 798.
- Hitchcock, H. K., Tarentum, assignor to himself and C. W. Brown, trustees, Pittsburg, Pa. Method of and apparatus for making glass sheets. No. 918,323; Apr. 13; Sp. p. 2763; Gaz. vol. 141; p. 490.
- Hitchcock, O. B. (See Gray and Hitchcock.)
- Hitchings & Company. (See Sefton, W., assignor.)
- Hitchings, J., Ingalls, Kans. Seeder. No. 924,228; June 8; Sp. p. 2492; Gaz. vol. 143; p. 404.
- Hite, C. E., Burlington, N. J. Primary battery. No. 941,366; Nov. 30; Sp. p. 6441; Gaz. vol. 148; p. 1097.
- Hite, C. E., Burlington, N. J. Briquetting coal. No. 941,454; Nov. 30; Sp. p. 6645; Gaz. vol. 148; p. 1126.
- Hite, E. L., Bunceon, Mo. Meat-hanger. No. 937,679; Oct. 19; Sp. p. 4320; Gaz. vol. 147; p. 736.
- Hitt, A., Jersey City, N. J. Torsion-balance for scales. No. 935,846; Oct. 5; Sp. p. 519; Gaz. vol. 147; p. 75.
- Hitt, A., Jersey City, N. J. Concrete window-frame. No. 937,700; Oct. 19; Sp. p. 4375; Gaz. vol. 147; p. 743.
- Hitt, A., Gustine, Tex. Condiment-holder. No. 937,995; Oct. 26; Sp. p. 4998; Gaz. vol. 147; p. 861.
- Hitt, R. G., Atlanta, Ga. Combined tag and buckle. No. 936,896; Oct. 12; Sp. p. 2696; Gaz. vol. 147; p. 450.
- Hitt, S. E., Pittsburg, Pa. Railway-truck. No. 913,136; Feb. 23; Sp. p. 4359; Gaz. vol. 139; p. 738.
- Hitt, S. E., Pittsburg, Pa. Pneumatic apparatus for discharging furnaces. No. 916,314; Mar. 23; Sp. p. 5379; Gaz. vol. 140; p. 955.
- Hitz, J. L., Chicago, Ill. Tooth-brush. No. 915,349; Mar. 16; Sp. p. 3489; Gaz. vol. 140; p. 609.
- Hitzert, J., Onaway, Mich. Rail-fastening. No. 939,419; Nov. 9; Sp. p. 2170; Gaz. vol. 148; p. 360.
- Hixon, E., Chicago, Ill. Electrolizer. No. 927,970; July 13; Sp. p. 2646; Gaz. vol. 144; p. 450.
- Eixson, B. M., et al. (See Burks, W. E., assignor.)
- Hiorth, H. J., Cambridge, Mass. Self-fitting key. No. 921,401; May 11; Sp. p. 2698; Gaz. vol. 142; p. 463.
- Hlavacs, L. (See Battyany, Hlavacs, and Kota.)
- Hoadley Brake Shoe Company. (See Hoadley, G. M., assignor.)
- Hoadley, G. M., assignor, by mesne assignments, to Hoadley Brake Shoe Company, Springfield, Mass. Car-brake. No. 937,068; Oct. 19; Sp. p. 3044; Gaz. vol. 147; p. 535.
- Hoadley, G. M., assignor, by mesne assignments, to Hoadley Brake Shoe Company, Springfield, Mass. Railway-car brake. No. 937,069; Oct. 19; Sp. p. 3049; Gaz. vol. 147; p. 536.
- Hoadley, F. L. (See Thornton and Hoadley.)
- Hoag, C. H. (See Dickey and Hoag.)
- Hoag Rapid Press Company. (See Mills and Smith, assignors.)
- Hoagland, J. B., St. Louis, Mo. Nut-lock. No. 908,670; Jan. 5; Sp. p. 511; Gaz. vol. 138; p. 80.
- Hoagland, W. H. (See Slichter, F. A., assignor.)
- Hoard, A. F., Leicester, S. D. Trace-hook. No. 941,520; Nov. 30; Sp. p. 6780; Gaz. vol. 148; p. 1148.
- Hoban, T. F., Chicago, Ill. Washboard attachment. No. 935,025; Sept. 28; Sp. p. 4123; Gaz. vol. 146; p. 738.
- Hobart, A. J., St. Johnsville, assignor to F. Engelhardt & Sons, New York, N. Y. Time-sheet attachment for automatic pianos. No. 913,009; Feb. 23; Sp. p. 4108; Gaz. vol. 139; p. 745.
- Hobart, F. G., Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill. Valve for gas-engines. No. 923,524; June 1; Sp. p. 913; Gaz. vol. 143; p. 140.
- Hobart, F. G., and W. E. Reuling, Beloit, Wis., assignors to Fairbanks, Morse & Co., Chicago, Ill. Feed-grinder. No. 935,985; Oct. 5; Sp. p. 820; Gaz. vol. 147; p. 122.
- Hobart, H. M., London, England, and E. Coad, Bremen, Germany. Electrical distribution system. No. 925,102; June 15; Sp. p. 4287; Gaz. vol. 143; p. 731.
- Hobbs, A. J., East Brunswick, and J. R. Jewell, Brunswick, Victoria, Australia. Horse-checking device. No. 935,625; Sept. 28; Sp. p. 3343; Gaz. vol. 146; p. 937.
- Hobbs, E. D. (See Coleman, L. A., assignor.)
- Hobbs, J. E., North Berwick, Me. Sleigh. No. 917,431; Apr. 6; Sp. p. 942; Gaz. vol. 141; p. 164.
- Hobbs, W. A., Shreveport, La. Cabinet for holding disk phonograph-records and indexes combined therewith. No. 931,426; Aug. 17; Sp. p. 3810; Gaz. vol. 145; p. 658.
- Hobbs, W. F., assignor to Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn. Tension device for shears. No. 932,390; Aug. 24; Sp. p. 5815; Gaz. vol. 145; p. 994.
- Hobdell, H. (See Smith, F., assignor.)
- Hobday, W. H., Milwaukee, Wis. Mechanical toy. No. 916,151; Mar. 23; Sp. p. 5089; Gaz. vol. 140; p. 901.



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- Hoberg, F. H., Green Bay, Wis. Toilet-paper holder. No. 931,118; Aug. 17; Sp. p. 3146; Gaz. vol. 145; p. 551.
- Hobson, J., Jr., Wayne, Pa. Cultivator. No. 941,678; Nov. 30; Sp. p. 7096; Gaz. vol. 148; p. 1199.
- Hobson, J. S., Edgewood Park, assignor to Union Switch & Signal Company, Swissvale, Pa. Interlocking machine. No. 911,723; Feb. 9; Sp. p. 1391; Gaz. vol. 139; p. 259.
- Hobson, J. S., Edgewood Park, assignor to Union Switch & Signal Company, Swissvale, Pa. Support for detector-bars. No. 912,677; Feb. 16; Sp. p. 3426; Gaz. vol. 139; p. 611.
- Hobson, J. S., Edgewood Park, assignor to Union Switch & Signal Company, Swissvale, Pa. Railway-signal. No. 926,743; July 6; Sp. p. 77; Gaz. vol. 144; p. 11.
- Hobson, J. S., Edgewood Park, assignor to Union Switch & Signal Company, Swissvale, Pa. Railway-signal. No. 926,870; July 6; Sp. p. 350; Gaz. vol. 144; p. 56.
- Hobson, R. B., New York, N. Y. Pillow. No. 926,563; June 29; Sp. p. 7204; Gaz. vol. 143; p. 1274.
- Hobson, S. S., *et al.* (See Desy, I., assignor.)
- Hoch, E. S., Chicago, Ill. Combined pocket-book and savings-bank. No. 940,315; Nov. 16; Sp. p. 4152; Gaz. vol. 148; p. 700.
- Hochberg, O., St. Louis, Mo. Car-truck. No. 926,984; July 6; Sp. p. 571; Gaz. vol. 144; p. 94.
- Hochhausen, H. T., Brooklyn, N. Y. Weatherproof lamp-socket. No. 921,836; May 18; Sp. p. 3607; Gaz. vol. 142; p. 636.
- Hochheimer, A., New York, N. Y. Hair ornament. No. 925,340; June 15; Sp. p. 4717; Gaz. vol. 143; p. 805.
- Hochstein, L., Neumühlen-Dietrichsdorf, near Kiel, Germany. Ejector for ships' ashes. No. 919,014; Apr. 20; Sp. p. 4272; Gaz. vol. 141; p. 747.
- Hochstetter, R., Cincinnati, Ohio. Ink. No. 928,915; July 20; Sp. p. 4582; Gaz. vol. 144; p. 798.
- Hochstetter, R. W., assignor to Ault & Wiborg Company, Cincinnati, Ohio. Ink. No. 928,450; July 20; Sp. p. 3648; Gaz. vol. 144; p. 643.
- Hochstuhl, J. G., Cheviot, assignor to Goldman, Beckman & Co., Cincinnati, Ohio. Garment-sleeve. No. 931,711; Aug. 17; Sp. p. 4412; Gaz. vol. 145; p. 748.
- Hock, H. W., assignor to Youngstown Sheet and Tube Company, Youngstown, Ohio. Cooling-bed. No. 936,897; Oct. 12; Sp. p. 2697; Gaz. vol. 147; p. 450.
- Hock, H. W., assignor to Youngstown Sheet and Tube Company, Youngstown, Ohio. Skelp-treating apparatus for lapweld pipe. No. 942,766; Dec. 7; Sp. p. 327; Gaz. vol. 149; p. 50.
- Hock, J. A. (See Boyd and Hock.)
- Hockenjos, H. C., Paris, France. Ring spinning-frame. No. 918,865; Apr. 13; Sp. p. 1816; Gaz. vol. 141; p. 332.
- Hockett, J. A., Amo, Ind. Horse-releaser. No. 936,128; Oct. 5; Sp. p. 1115; Gaz. vol. 147; p. 169.
- Hocking, J., Norwood, Mass., assignor to G. L. Bourne, New York, N. Y. Stay-bolt-drilling machine. No. 931,119; Aug. 17; Sp. p. 3147; Gaz. vol. 145; p. 551.
- Hocking, W. C., Chicago, Ill. Accounting-envelop. No. 908,671; Jan. 5; Sp. p. 512; Gaz. vol. 138; p. 80.
- Hockney, C. L., Silverlake, Wis., assignor to D. Dyrenforth, Chicago, Ill. Wheel-chair. No. 909,411; Jan. 12; Sp. p. 1976; Gaz. vol. 138; p. 352.
- Hochstrasser, P., Salt Lake City, Utah. Air-ship. No. 910,683; Jan. 26; Sp. p. 4613; Gaz. vol. 138; p. 846.
- Hoequard, P. E., J. C. Beach, and I. H. Beach, assignors of one-fourth to C. J. Peirce, Shirley, Mass. Fastening device. No. 916,706; Mar. 30; Sp. p. 6185; Gaz. vol. 140; p. 1107.
- Hodde, J. H. (See Lanphier and Hodde.)
- Hodge, A. J., Pasadena, assignor to Mills Automatic Press Co., Los Angeles, Cal. Printing-press. No. 937,527; Oct. 19; Sp. p. 4045; Gaz. vol. 147; p. 687.
- Hodge, A. J., Pasadena, assignor to Mills Automatic Press Co., Los Angeles, Cal. Sheet-feeder. No. 937,807; Oct. 26; Sp. p. 4604; Gaz. vol. 147; p. 798.
- Hodge, E. A., Portsmouth, Ohio. Washboard. No. 935,026; Sept. 28; Sp. p. 4124; Gaz. vol. 146; p. 739.
- Hodge, H. B., Philadelphia, Pa. Pipe-joint coupling. No. 922,480; May 25; Sp. p. 4902; Gaz. vol. 142; p. 873.
- Hodge, H. D., Waltham Abbey, England, assignor to Nobel's Explosives Company, Limited, Glasgow, Scotland. Means for feeding cartridge-shells. No. 935,367; Sept. 28; Sp. p. 4816; Gaz. vol. 146; p. 852.
- Hodge, H. D., Waltham Abbey, England, assignor to Nobel's Explosives Company, Limited, Glasgow, Scotland. Cartridge-making machine. No. 937,604; Oct. 19; Sp. p. 4185; Gaz. vol. 147; p. 713.
- Hodge, H. D., Waltham Abbey, England, assignor to Nobel's Explosives Company, Limited, Glasgow, Scotland. Machine for assembling the base-wads, liners, and tubes of cartridges. No. 937,605; Oct. 19; Sp. p. 4188; Gaz. vol. 147; p. 713.
- Hodge, H. D., Waltham Abbey, England, assignor to Nobel's Explosives Company, Limited, Glasgow, Scotland. Means for piling disks. No. 944,364; Dec. 28; Sp. p. 4999; Gaz. vol. 149; p. 880.
- Hodge, R. J., Franklin Park, Mass. Nautical instrument. No. 937,441; Oct. 19; Sp. p. 3859; Gaz. vol. 147; p. 657.
- Hodge, W. B. (See Cummins, C. R., assignor.)
- Hodge, W. B., Glenside, assignor to Queen & Co., Incorporated, Philadelphia, Pa. Device for protecting end bearings. No. 919,171; Apr. 20; Sp. p. 4555; Gaz. vol. 141; p. 796.
- Hodgen, J. R., Tensaw, assignor of one-half to G. J. Crossland, Mobile, Ala. Sawmill appliance. No. 918,152; Apr. 13; Sp. p. 2415; Gaz. vol. 141; p. 433.
- Hodges, C. B. and F. W., Detroit, Mich. Force-feed lubricator. No. 922,141; May 18; Sp. p. 4202; Gaz. vol. 142; p. 735.
- Hodges, F. F., Kalamazoo, Mich. Hame and trace connection. No. 939,420; Nov. 9; Sp. p. 2171; Gaz. vol. 148; p. 361.
- Hodges, F. W. (See Hodges, C. B. and F. W.)
- Hodges, F. W. (See Wigginton and Hodges.)
- Hodges Fiber Carpet Company. (See Stevenson, W. M., assignor.)
- Hodges, J. F., New York, N. Y., assignor to Business Improvement Company. Position-indicator. No. 913,891; Mar. 2; Sp. p. 467; Gaz. vol. 140; p. 76.
- Hodges, J. M., Radford, Va. Subsoiler-plow. No. 944,095; Dec. 21; Sp. p. 4426; Gaz. vol. 149; p. 763.
- Hodgin, G. W., Greensboro, N. C. Carpenter's tool. No. 924,660; June 15; Sp. p. 3367; Gaz. vol. 143; p. 581.
- Hodgkins, E. G., Boston, Mass. Oar-rack. No. 935,027; Sept. 28; Sp. p. 4126; Gaz. vol. 146; p. 739.
- Hodgkins, E. G., Boston, Mass. Oar-rack. No. 941,779; Nov. 30; Sp. p. 7331; Gaz. vol. 148; p. 1235.
- Hodgkins, F. F., East Boston, Mass. Inflatable coat. No. 932,608; Aug. 31; Sp. p. 6319; Gaz. vol. 145; p. 1091.
- Hodgkinson, F., Edgewood Park, Pa., assignor to Westinghouse Machine Company. Covering for blade-carrying elements. No. 930,858; Aug. 10; Sp. p. 2535; Gaz. vol. 145; p. 438.
- Hodgkinson, F., Edgewood Park, Pa., assignor to Westinghouse Machine Company. Elastic-fluid turbine. No. 934,915; Sept. 21; Sp. p. 3893; Gaz. vol. 146; p. 676.
- Hodgkinson, F., Edgewood Park, Pa., assignor to Westinghouse Machine Company. Elastic-fluid turbine. No. 937,996; Oct. 26; Sp. p. 4999; Gaz. vol. 147; p. 861.
- Hodgkinson, F., Edgewood Park, Pa., assignor to Westinghouse Machine Company. Automatic stop for elastic-fluid turbines. No. 940,689; Nov. 23; Sp. p. 4981; Gaz. vol. 148; p. 850.
- Hodgkinson, F., Edgewood Park, Pa., assignor to Westinghouse Machine Company. Blading for turbines. No. 943,347; Dec. 14; Sp. p. 2835; Gaz. vol. 149; p. 477.
- Hodgkinson, F., Edgewood Park, Pa., assignor to Westinghouse Machine Company. Blade-holding means. No. 943,348; Dec. 14; Sp. p. 2837; Gaz. vol. 149; p. 477.
- Hodgkinson, F., Edgewood Park, Pa., assignor to Westinghouse Machine Company. Elastic-fluid turbine. No. 943,349; Dec. 14; Sp. p. 2839; Gaz. vol. 149; p. 477.
- Hodgkinson, W. R. (See Peck and Hodgkinson.)
- Hodgkinson, W. R., *et al.* (See Bayliss, Hodgkinson, Hardcastle, Coote, and Payne.)
- Hodgman, F. C., assignor to Draper Company, Hopedale, Mass. Machine for marking and coating bobbins. No. 920,870; May 4; Sp. p. 1592; Gaz. vol. 142; p. 254.
- Hodgman, W. K., and B. Hall, assignors to Huber-Hodgman Printing Press Company, Taunton, Mass. Bed-motion for printing-presses. No. 911,498; Feb. 2; Sp. p. 891; Gaz. vol. 139; p. 157.
- Hodgson, J., Carlisle, England. Motor-car wind-screen. No. 940,529; Nov. 16; Sp. p. 4628; Gaz. vol. 148; p. 772.
- Hodgson, J. G., Maywood, Ill., assignor to American Can Company, New York, N. Y. Holder for shipment of tin-plate or other thin sheets. No. 921,699; May 18; Sp. p. 3314; Gaz. vol. 142; p. 590.
- Hodgson, J. G., Maywood, Ill., assignor to American Can Company, New York, N. Y. Holder for shipment of tin-plate or other thin sheets. No. 921,700; May 18; Sp. p. 3317; Gaz. vol. 142; p. 590.
- Hodgson, J. G., Chicago, Ill., assignor to American Can Company, New York, N. Y. Solder-charged can-cap. No. 928,975; July 27; Sp. p. 4700; Gaz. vol. 144; p. 848.
- Hodgson, J. G., Maywood, Ill., assignor to American Can Company, New York, N. Y. Can coating or lacquering machine. No. 932,609; Aug. 31; Sp. p. 6321; Gaz. vol. 145; p. 1091.

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- Hodgson, W. D., assignor to A. J. McDonough, Detroit, Mich. Regulating device. No. 917,067; Apr. 6; Sp. p. 208; Gaz. vol. 141; p. 39.
- Hodgson, W. W., Philadelphia, Pa. Card-stamping machine. No. 908,863; Jan. 5; Sp. p. 893; Gaz. vol. 138; p. 142.
- Hodskinson, J. H., Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Rotary abrading device. No. 917,068; Apr. 6; Sp. p. 211; Gaz. vol. 141; p. 39.
- Hoe, R. (See Cruse, A. H., assignor.)
- Hoe, R. (See MacConnell, H. C., assignor.)
- Hoe, R. (See Sheldon, E. P., assignor.)
- Hoe, R. (See Spalckhaver, W., assignor.)
- Hoe, R., Jr., New York, N. Y. Saw. No. 941,455; Nov. 30; Sp. p. 6647; Gaz. vol. 148; p. 1126.
- Hoefler, A. G., and K. W. Schantz, Buffalo, N. Y. Ice-cream freezer. No. 921,837; May 18; Sp. p. 3608; Gaz. vol. 142; p. 636.
- Hoefs, W. F. (See Sheatzley and Hoefs.)
- Hoeglauer, H., Munich, Germany. Device for agitating the water in baths. No. 916,152; Mar. 23; Sp. p. 5092; Gaz. vol. 140; p. 901.
- Hoegren, A. G., Chicago, Ill. Glove, mitten, or the like. No. 933,449; Sept. 7; Sp. p. 926; Gaz. vol. 146; p. 142.
- Hoehnen, W. W., Milwaukee, Wis. Washing-machine. No. 934,528; Sept. 21; Sp. p. 3133; Gaz. vol. 146; p. 546.
- Hoelscher, H. M. (See Gavin and Hoelscher.)
- Hoelscher, H. M., Chicago, Ill. Folding or collapsible top for automobiles. No. 926,118; June 29; Sp. p. 6344; Gaz. vol. 143; p. 1126.
- Hoelscher, H. M., and J. H. Gavin, assignors to L. Wolff Manufacturing Company, Chicago, Ill. Stop-cock. No. 912,569; Feb. 16; Sp. p. 3204; Gaz. vol. 139; p. 574.
- Hoelscher, J. H., Chicago, Ill. Waterproofing preservative dressing. No. 923,176; June 1; Sp. p. 124; Gaz. vol. 143; p. 20.
- Hoen, E. A., Richmond, Va. Ticket. No. 911,406; Feb. 2; Sp. p. 743; Gaz. vol. 139; p. 129.
- Hoener, H. C., and F. Andreas, assignors to Bridge & Beach Manufacturing Company, St. Louis, Mo. Dumping-grate. No. 943,748; Dec. 21; Sp. p. 3704; Gaz. vol. 149; p. 644.
- Hoenow, E., Glendale, N. Y. Steam-siren. No. 916,707; Mar. 30; Sp. p. 6186; Gaz. vol. 140; p. 1108.
- Hoepfl, J. M., Philadelphia, Pa. Door for bake-ovens. No. 941,780; Nov. 30; Sp. p. 7333; Gaz. vol. 148; p. 1236.
- Hoerle, F., Plainville, Conn. Electric switch. No. 939,258; Nov. 9; Sp. p. 1749; Gaz. vol. 148; p. 304.
- Hoermann, A. E., New York, N. Y. Dumping device. No. 915,179; Mar. 16; Sp. p. 3158; Gaz. vol. 140; p. 554.
- Hoerr, L. A., St. Louis, Mo. Angle-cock for railway-cars. No. 925,103; June 15; Sp. p. 4290; Gaz. vol. 143; p. 731.
- Hoerr, L. A., St. Louis, Mo. Angle-cock holder for railway-cars. No. 939,421; Nov. 9; Sp. p. 2172; Gaz. vol. 148; p. 361.
- Hoerschen, H. A., Omaha, Neb. Railroad-signal. No. 914,412; Mar. 9; Sp. p. 1616; Gaz. vol. 140; p. 276.
- Hoebet, A. T., New York, N. Y. Electric fan. No. 914,413; Mar. 9; Sp. p. 1618; Gaz. vol. 140; p. 276.
- Hof, L. K. (See White and Hof.)
- Hofe, C. von, assignor to Firm of C. Zeiss, Jena, Germany. Stereoscopic telemeter. No. 914,838; Mar. 9; Sp. p. 2493; Gaz. vol. 140; p. 416.
- Hofe, C. von, assignor to Firm of C. Zeiss, Jena, Germany. Stereoscopic telemeter with traveling mark. No. 934,916; Sept. 21; Sp. p. 3897; Gaz. vol. 146; p. 676.
- Hoff, C., assignor of one-half to B. Sicking, Cincinnati, Ohio. Umbrella-rib socket. No. 938,863; Nov. 2; Sp. p. 884; Gaz. vol. 148; p. 142.
- Hoff, C., assignor of one-half to B. Sicking, Cincinnati, Ohio. Pritch. No. 940,597; Nov. 16; Sp. p. 4770; Gaz. vol. 148; p. 795.
- Hoff, C. L., assignor to Standard Chain Company, York, Pa. Electric chain-link-welding apparatus. No. 943,190; Dec. 14; Sp. p. 2492; Gaz. vol. 149; p. 423.
- Hoff, F., Canal Dover, Ohio. Shade-trimmer. No. 915,859; Mar. 23; Sp. p. 4538; Gaz. vol. 140; p. 807.
- Hoff, G. K., Philadelphia, Pa. Railroad-spike. No. 916,153; Mar. 23; Sp. p. 5093; Gaz. vol. 140; p. 901.
- Hoff, J. A., assignor to Standard Carbonic Company, Cincinnati, Ohio. Transferring apparatus for fluids under high pressures. No. 927,798; July 13; Sp. p. 2274; Gaz. vol. 144; p. 393.
- Hoffer, F. C., W. H. Whitesell, and F. H. Bente, Los Angeles, Cal., assignors to Excelsior Supply Company, Chicago, Ill. Stand for motor-cycles and bicycles. No. 940,250; Nov. 16; Sp. p. 3987; Gaz. vol. 148; p. 678.
- Hoffield, H. R., *et al.* (See Maier, W., assignor.)
- Hoffman, A. J., Seattle, Wash. Clothes-pressing apparatus. No. 928,199; July 13; Sp. p. 3093; Gaz. vol. 144; p. 527.
- Hoffman, A. J., Syracuse, N. Y. Steam clothes-press. No. 939,025; Nov. 2; Sp. p. 1239; Gaz. vol. 148; p. 198.
- Hoffman, B. F., Pleasantville, N. Y. Grater. No. 926,327; June 29; Sp. p. 6794; Gaz. vol. 143; p. 1195.
- Hoffman, B. F., assignor, by mesne assignments, to Balance Pressure Rotary Engine Company, Buffalo, N. Y. Rotary engine. No. 917,944; Apr. 13; Sp. p. 1933; Gaz. vol. 141; p. 361.
- Hoffman, C., Baltimore, Md. Boat. No. 941,923; Nov. 30; Sp. p. 7636; Gaz. vol. 148; p. 1286.
- Hoffman, C. E. (See Hull, T., assignor.)
- Hoffman, C. S., San Francisco, Cal. Sidewalk-elevator door. No. 928,756; July 20; Sp. p. 4261; Gaz. vol. 144; p. 742.
- Hoffman-Corr Manufacturing Company. (See McBride, W. J., assignor.)
- Hoffman, E., New York, N. Y., assignor to American Stopper Company. Jar and bottle closure. No. 942,141; Dec. 7; Sp. p. 255; Gaz. vol. 149; p. 38.
- Hoffman, E. J., assignor of one-third to G. E. Spatz and one-third to J. P. Myers, Hampton, Pa. Breast-strap and neck-strap connection. No. 924,780; June 15; Sp. p. 3626; Gaz. vol. 143; p. 622.
- Hoffman, F. I. (See Vandervell and Hoffman.)
- Hoffman, G. (See Buetikofer and Hoffman.)
- Hoffman, G. F., Philadelphia, Pa. Bed-hammock. No. 917,866; Apr. 13; Sp. p. 1819; Gaz. vol. 141; p. 333.
- Hoffman, G. W., Shiloh, Ohio. Banana-shipping case. No. 937,606; Oct. 19; Sp. p. 4190; Gaz. vol. 147; p. 714.
- Hoffman, J., *et al.* (See Eichler, A., assignor.)
- Hoffman, J. F., Mound City, Ill. Acetylene-gas generator. No. 910,538; Jan. 26; Sp. p. 4310; Gaz. vol. 138; p. 791.
- Hoffman, J. J., assignor to P. H. Murphy, St. Louis, Mo. Outside car-roof. No. 915,350; Mar. 16; Sp. p. 3491; Gaz. vol. 140; p. 609.
- Hoffman, J. J., assignor to P. H. Murphy, St. Louis, Mo. Running-board saddle. No. 915,351; Mar. 16; Sp. p. 3494; Gaz. vol. 140; p. 609.
- Hoffman, J. J., assignor to P. H. Murphy, St. Louis, Mo. Outside car-roof. No. 915,352; Mar. 16; Sp. p. 3495; Gaz. vol. 140; p. 610.
- Hoffman, J. J., assignor to P. H. Murphy, St. Louis, Mo. Metal car-roof. No. 929,221; July 27; Sp. p. 6207; Gaz. vol. 144; p. 924.
- Hoffman, J. J., assignor to P. H. Murphy, St. Louis, Mo. Carline. No. 942,258; Dec. 7; Sp. p. 493; Gaz. vol. 149; p. 76.
- Hoffman, L. R., Oil City, Pa. Spanner-wrench. No. 943,935; Dec. 21; Sp. p. 4096; Gaz. vol. 149; p. 709.
- Hoffman, M. H., assignor of one-half to A. Simon, Chicago, Ill. Popcorn-popper. No. 938,666; Nov. 2; Sp. p. 492; Gaz. vol. 148; p. 76.
- Hoffman, R., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Gas-stove-door latch. No. 927,240; July 6; Sp. p. 1116; Gaz. vol. 144; p. 181.
- Hoffman, R., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Automatic water-heater. No. 928,757; July 20; Sp. p. 4263; Gaz. vol. 144; p. 743.
- Hoffman, R. L., Schenectady, N. Y., assignor to General Electric Company. Clamping-ear for trolley-wires. No. 917,069; Apr. 6; Sp. p. 213; Gaz. vol. 141; p. 40.
- Hoffman, V. (See Barna and Hoffman.)
- Hoffmann, A. (See Bomborn and Hoffmann.)
- Hoffmann, A. R., St. Louis, Mo. Feed-bag. No. 913,727; Mar. 2; Sp. p. 104; Gaz. vol. 140; p. 18.
- Hoffmann, A. R., St. Louis, Mo. Feeding apparatus. No. 936,129; Oct. 5; Sp. p. 1117; Gaz. vol. 147; p. 170.
- Hoffmann, E. G. (See Hirth, A., assignor.)
- Hoffmann, H., St. Louis, Mo. Shelving. No. 908,772; Jan. 5; Sp. p. 723; Gaz. vol. 138; p. 112.
- Hoffmann, H., St. Louis, Mo. Delivering apparatus for railway-cars. No. 912,678; Feb. 16; Sp. p. 3427; Gaz. vol. 139; p. 612.
- Hoffmann, H., New Rochelle, N. Y. Car-brake. No. 929,432; July 27; Sp. p. 5660; Gaz. vol. 144; p. 994.
- Hoffmann, H. L. (See Pennell and Hoffmann.)
- Hoffmann, J., assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Gray vat dye and making same. No. 916,154; Mar. 23; Sp. p. 5094; Gaz. vol. 140; p. 902.
- Hoffmann, M., assignor to Paul Meyer Aktien-Gesellschaft, Berlin, Germany. Lever-controlled switch. No. 918,854; Apr. 20; Sp. p. 3943; Gaz. vol. 141; p. 694.
- Hofheimer, M., Baltimore, Md. Making wood-joints. No. 917,432; Apr. 6; Sp. p. 945; Gaz. vol. 141; p. 164.
- Hofheimer, M., Baltimore, Md. Making tenon-joints. No. 917,433; Apr. 6; Sp. p. 947; Gaz. vol. 141; p. 165.
- Hofmeister, G., Union Center, Wis. Wagon-tongue attachment. No. 908,672; Jan. 5; Sp. p. 514; Gaz. vol. 138; p. 80.
- Hofmann, A., Altstetten, Switzerland. Washing-machine. No. 922,900; May 25; Sp. p. 5795; Gaz. vol. 142; p. 1010.
- Hofmann, A. J., Newark, N. J. Inverted incandescent gas-lamp. No. 933,176; Sept. 7; Sp. p. 2395; Gaz. vol. 146; p. 49.
- Hofmann, E. K., Andover, Mass. Controller-operating handle for electric cars. No. 924,463; June 8; Sp. p. 2944; Gaz. vol. 143; p. 482.
- Hofmann, F., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Anhydrid of acyl salicylic acids. No. 922,766; May 25; Sp. p. 5498; Gaz. vol. 142; p. 967.
- Hofmann, J., Potsdam, Germany. Location-indicator. No. 909,798; Jan. 12; Sp. p. 2747; Gaz. vol. 138; p. 484.
- Hofmann, W. H., New York, N. Y. Molding-machine. No. 918,551; Apr. 20; Sp. p. 3247; Gaz. vol. 141; p. 592.



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- Hofmeister, C., assignor to Belleville Stove & Range Company, Belleville, Ill. Lift for stove top plates. No. 922,428; May 18; Sp. p. 4788; Gaz. vol. 142; p. 829.
- Hofmeister, R., assignor of one-half to J. P. Casey and one-fourth to L. C. Pausch, St. Louis, Mo. Electric igniter for gas-stoves. No. 933,450; Sept. 7; Sp. p. 927; Gaz. vol. 146; p. 142.
- Hofmeyer, G. A., Undercliff, N. J. Waste-chute. No. 939,690; Nov. 9; Sp. p. 2747; Gaz. vol. 148; p. 453.
- Hofmeyer, G. A., Undercliff, N. J. Waste-chute. No. 939,691; Nov. 9; Sp. p. 2749; Gaz. vol. 148; p. 454.
- Hofstatter, W. J., Toledo, Ohio. Fluid-pressure combination-lock. No. 938,487; Nov. 2; Sp. p. 87; Gaz. vol. 148; p. 14.
- Hogan, D., Hoboken, N. J., assignor to Meinecke & Company, New York, N. Y. Bed and douche pan. No. 920,463; May 4; Sp. p. 750; Gaz. vol. 142; p. 120.
- Hogan, J. T., Denver, Colo., assignor of one-half to P. Klinkhammer, Los Angeles, Cal. Hoop lug and connection. No. 922,767; May 25; Sp. p. 5499; Gaz. vol. 142; p. 967.
- Hogan, J. T., Jersey City, N. J., assignor to National Machine Company, Mamaroneck, N. Y. Sewing-machine. No. 935,847; Oct. 5; Sp. p. 520; Gaz. vol. 147; p. 76.
- Hogan, P. W., Durand, Mich. Auxiliary coupling-head. No. 928,654; July 20; Sp. p. 4064; Gaz. vol. 144; p. 708.
- Hogan, S. T., and F. Knetsch, Jr., assignors of one-third to J. B. Oatman, Creedmoor, Tex. Cotton-chopper. No. 913,659; Feb. 23; Sp. p. 5468; Gaz. vol. 139; p. 962.
- Hogel, H. A., New York, N. Y. Roasting-furnace. No. 926,942; July 6; Sp. p. 488; Gaz. vol. 144; p. 79.
- Hogel, H. A., New York, N. Y. Condenser. No. 926,943; July 6; Sp. p. 491; Gaz. vol. 144; p. 80.
- Hogel, H. A., New York, N. Y. Treating ores. No. 927,046; July 6; Sp. p. 729; Gaz. vol. 144; p. 115.
- Hogel, H. A., New York, N. Y. Condensing fumes. No. 927,241; July 6; Sp. p. 1117; Gaz. vol. 144; p. 181.
- Hoggen, C. C., Cleveland, Ohio. Pilot-beam. No. 928,200; July 13; Sp. p. 3096; Gaz. vol. 144; p. 527.
- Hogg, H. B., Parkersburg, W. Va. Automatic pipe-line suction-valve. No. 922,142; May 18; Sp. p. 4204; Gaz. vol. 142; p. 735.
- Hogsgson, S. H., New York, N. Y. Electromagnetic apparatus for actuating mechanisms. No. 929,763; Aug. 3; Sp. p. 277; Gaz. vol. 145; p. 47.
- Hogland, F. G. (See Faust and Hogland.) (Reissue.)
- Hoglund, P., and C. Olsen, Duluth, Minn. Hunting-knife. No. 927,352; July 6; Sp. p. 1306; Gaz. vol. 144; p. 216.
- Hogue, A. E., Toronto, Ontario, Canada. Crushing-roll. No. 924,352; June 8; Sp. p. 2739; Gaz. vol. 143; p. 446.
- Hohenstein, R., Meacham, Ore. Folding box or crate. No. 942,642; Dec. 7; Sp. p. 1273; Gaz. vol. 149; p. 208.
- Hohfeld, H. L., Philadelphia, Pa. Suspension-couch. No. 942,259; Dec. 7; Sp. p. 494; Gaz. vol. 149; p. 77.
- Hohmann, A. B., Richmond Hill, assignor to C. J. Tagliabue, Brooklyn, N. Y. Mercury vacuum-gage. No. 913,010; Feb. 23; Sp. p. 4110; Gaz. vol. 139; p. 746.
- Hohn, L., assignor of three-fifths to G. B. King, Millvale borough, Pa. Postal card. No. 930,290; Aug. 3; Sp. p. 1354; Gaz. vol. 145; p. 224.
- Höhner, G., Berlin, Germany. Locomotive. No. 911,407; Feb. 2; Sp. p. 744; Gaz. vol. 139; p. 129.
- Hölland, J., and K. J. Halleland, Stavanger, Norway, assignors to Rosenstein Brothers, Inc. Sheet-metal vessel. No. 917,741; Apr. 6; Sp. p. 1515; Gaz. vol. 141; p. 265.
- Hoke, H. E., Hanover, Pa. Hinge. No. 925,910; June 22; Sp. p. 5921; Gaz. vol. 143; p. 1023.
- Hoke, H. E., assignor of one-half to E. G. Eckert, Hanover, Pa. Penholder. No. 944,190; Dec. 21; Sp. p. 4629; Gaz. vol. 149; p. 793.
- Hoke, H. E., assignor of one-half to E. G. Eckert, Hanover, Pa. Penholder. No. 944,191; Dec. 21; Sp. p. 4630; Gaz. vol. 149; p. 793.
- Holan, F., Niobrara, Nebr. Grip-tread for vehicle-wheels. No. 937,528; Oct. 19; Sp. p. 4049; Gaz. vol. 147; p. 688.
- Holburns, J. G., and H. A. Longhurst, assignors to Linotype and Machinery Limited, London, England. Means for justifying tabular matter in typographical composing-machines. No. 933,835; Sept. 14; Sp. p. 1778; Gaz. vol. 146; p. 295.
- Holburns, J. G., and H. A. Longhurst, assignors to Linotype and Machinery Limited, London, England. Means for justifying tabular matter in typographical composing-machines. No. 934,408; Sept. 14; Sp. p. 2889; Gaz. vol. 146; p. 483.
- Holbrook, H. F., assignor to Holbrook-Singer Company, New York, N. Y. Automobile wind-shield. No. 932,126; Aug. 24; Sp. p. 5322; Gaz. vol. 145; p. 907.
- Holbrook-Singer Company. (See Holbrook, H. F., assignor.)
- Holcomb, A. E., Chicago, assignor of one-half to F. M. Johnson, Oregon, Ill. Excavating-bucket. No. 918,552; Apr. 20; Sp. p. 3249; Gaz. vol. 141; p. 592.
- Holcomb, C. C., assignor to Richmond Casket Company, Richmond, Ind. Burial-shirt. No. 928,655; July 20; Sp. p. 4065; Gaz. vol. 144; p. 708.
- Holcomb, N. L., Geneva, Ohio. Adjustable bracket. No. 914,047; Mar. 2; Sp. p. 849; Gaz. vol. 140; p. 131.
- Holcomb, S. A., Estherville, Iowa. Furnace-door-operating mechanism. No. 934,529; Sept. 21; Sp. p. 3134; Gaz. vol. 146; p. 547.
- Hold, F. W., Mount Vernon, N. Y. Ventilating-sash and window-locking device. No. 922,901; May 25; Sp. p. 5796; Gaz. vol. 142; p. 1011.
- Holdampf, F., Pittsburg, Pa. Rail-joint and rail-brace. No. 916,315; Mar. 23; Sp. p. 5381; Gaz. vol. 140; p. 955.
- Holdeman, A. K., Cedar Point, Kans. Gate. No. 935,206; Sept. 28; Sp. p. 4489; Gaz. vol. 146; p. 799.
- Holden, C. R., Chicago, Ill. Railway-road-bed construction. No. 933,073; Sept. 7; Sp. p. 69; Gaz. vol. 146; p. 12.
- Holden, C. R., Chicago, Ill. Railway-road-bed construction. No. 933,074; Sept. 7; Sp. p. 71; Gaz. vol. 146; p. 12.
- Holden, C. R., Chicago, Ill. Railway-tie. No. 933,836; Sept. 14; Sp. p. 1781; Gaz. vol. 146; p. 295.
- Holden, D. (See Dyer and Holden.)
- Holden, D. L., New York, N. Y., assignor, by mesne assignments, to Federal Ice Machine Company. Ice-machine press. (Reissue.) No. 12,999; July 27; Sp. p. 6098; Gaz. vol. 144; p. 1067.
- Holden, D. L., New York, N. Y., assignor, by mesne assignments, to Federal Ice Machine Company. Vertical ice-machine. (Reissue.) No. 13,000; July 27; Sp. p. 6100; Gaz. vol. 144; p. 1068.
- Holden, D. L., New York, N. Y., assignor, by mesne assignments, to Federal Ice Machine Company. Freezing-cylinder for ice-machines. (Reissue.) No. 13,002; Aug. 3; Sp. p. 1433; Gaz. vol. 145; p. 238.
- Holden, F., London, England, assignor to General Electric Company. Mercury-meter. No. 924,989; June 15; Sp. p. 4070; Gaz. vol. 143; p. 692.
- Holden, G., Merchantville, N. J., assignor to Merritt & Company. Shelving. No. 914,572; Mar. 9; Sp. p. 1930; Gaz. vol. 140; p. 329.
- Holden, G., Merchantville, N. J., assignor to Merritt & Company. Shelving. No. 940,017; Nov. 16; Sp. p. 3448; Gaz. vol. 148; p. 595.
- Holden, G., Merchantville, N. J., assignor to Bernstein Manufacturing Company, Philadelphia, Pa. Cot or bedstead. No. 919,865; Apr. 27; Sp. p. 6240; Gaz. vol. 141; p. 1064.
- Holden, G., Merchantville, N. J., assignor to Bernstein Mfg. Co. Utensil-sterilizer. No. 929,307; July 27; Sp. p. 5422; Gaz. vol. 144; p. 953.
- Holden, G., Merchantville, N. J., assignor to Bernstein Mfg. Co., Philadelphia, Pa. Metallic cabinet. No. 943,350; Dec. 14; Sp. p. 2841; Gaz. vol. 149; p. 477.
- Holden, S. H. (See Hookham and Holden.)
- Holden, S. H., Birmingham, England. Electricity-meter. No. 925,185; June 15; Sp. p. 4452; Gaz. vol. 143; p. 759.
- Holden, T. J., Linton, Ind. Stovepipe device. No. 936,130; Oct. 5; Sp. p. 1120; Gaz. vol. 147; p. 170.
- Holden, T. J., Muncie, Ind. Shearing device. No. 944,555; Dec. 28; Sp. p. 5443; Gaz. vol. 149; p. 946.
- Holden, W. A., Ansonia, assignor to Robert N. Bassett Company, Shelton, Conn. Buckle. No. 918,449; Apr. 13; Sp. p. 3013; Gaz. vol. 141; p. 530.
- Holden, W. A., Ansonia, assignor to Robert N. Bassett Company, Shelton, Conn. Buckle. No. 919,169; Apr. 20; Sp. p. 4551; Gaz. vol. 141; p. 796.
- Holder, F. M., Oxford, La. Ink-eraser. No. 938,667; Nov. 2; Sp. p. 493; Gaz. vol. 148; p. 76.
- Holder, J. R., Clayton, Tex. Churn. No. 922,699; May 25; Sp. p. 5363; Gaz. vol. 142; p. 946.
- Holdgate, E., Buffalo, N. Y. Waistband-adjuster for garments. No. 918,324; Apr. 13; Sp. p. 2767; Gaz. vol. 141; p. 490.
- Holdsworth, A., Barnsbury, London, England. Treating poor sulfid ores. No. 938,055; Oct. 26; Sp. p. 5125; Gaz. vol. 147; p. 881.
- Holekamp, R. G., Comfort, Tex. Double-acting pump. No. 943,018; Dec. 14; Sp. p. 2135; Gaz. vol. 149; p. 366.
- Holesteine, J. B., St. Albans, W. Va. Nut-lock. No. 919,170; Apr. 20; Sp. p. 4554; Gaz. vol. 141; p. 796.
- Holford, H., Winnipeg, Manitoba, Canada. Latch. No. 915,962; Mar. 23; Sp. p. 4730; Gaz. vol. 140; p. 839.
- Holgate, J., Luipaardsvlle, Transvaal. Reciprocating engine. No. 943,829; Dec. 21; Sp. p. 3862; Gaz. vol. 149; p. 672.
- Holiner, H. (See Small, W. E., assignor.)
- Holkestad, J. C., Hettinger, N. D. Knife attachment. No. 910,061; Jan. 19; Sp. p. 3281; Gaz. vol. 138; p. 605.
- Höll, M., Dresden, Germany. Coffee-mill. No. 935,153; Sept. 28; Sp. p. 4385; Gaz. vol. 146; p. 783.
- Holland, D. L., Frankfort, assignor of one-half to D. L. Miller, Louisville, Ky. Machine for cutting large pipe. No. 930,755; Aug. 10; Sp. p. 2327; Gaz. vol. 145; p. 404.
- Holland, E. C. (See Shoemaker and Holland.)
- Holland, E. C., Benton Harbor, Mich., assignor to Metal Sectional Furniture Company, Portland, Me. Drawer-lock. No. 912,570; Feb. 16; Sp. p. 3206; Gaz. vol. 139; p. 574.
- Holland, E. C., Benton Harbor, Mich., assignor to Metal Sectional Furniture Company, Portland, Me. Card-follower. No. 912,571; Feb. 16; Sp. p. 3207; Gaz. vol. 139; p. 575.
- Holland, E. C., Benton Harbor, Mich., assignor to Metal Sectional Furniture Company, Portland, Me. Filing-cabinet. No. 933,755; Sept. 14; Sp. p. 1631; Gaz. vol. 146; p. 269.

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- Holland, F. E., North Tonawanda, N. Y. Spring construction. No. 911,499; Feb. 2; Sp. p. 902; Gaz. vol. 139; p. 158.
- Holland, H. J., assignor to Inventors and Investors Corporation, Philadelphia, Pa. Imprint or shoe stamping machine. No. 924,990; June 15; Sp. p. 4072; Gaz. vol. 143; p. 693.
- Holland, J. R., and H. Silver, Binghamton, N. Y. Delivery-wagon. No. 914,722; Mar. 9; Sp. p. 2251; Gaz. vol. 140; p. 378.
- Holland, M., Lawn Hill, Iowa. Emergency rail-joint. No. 933,902; Sept. 14; Sp. p. 1916; Gaz. vol. 146; p. 317.
- Holland, N., and A. J. Kidd, assignors of one-third to Sherley & Kidd Company, Brazil, Ind. Display-cabinet. No. 943,877; Dec. 21; Sp. p. 3960; Gaz. vol. 149; p. 688.
- Holland, N. H., assignor to Western Electric Company, Chicago, Ill. Switch-key. No. 931,202; Aug. 17; Sp. p. 3341; Gaz. vol. 145; p. 580.
- Holland, N. H., assignor to Western Electric Company, Chicago, Ill. Private branch intercommunicating telephone system. No. 931,307; Aug. 17; Sp. p. 3581; Gaz. vol. 145; p. 617.
- Holland, N. H., Brookline, Mass., assignor to Western Electric Company, Chicago, Ill. Automatic circuit-breaker. No. 937,242; Oct. 19; Sp. p. 3423; Gaz. vol. 147; p. 592.
- Holland, P. H. (See Lang and Kalbe, assignors.)
- Holland, S., assignor of one-half to T. Catherwood, Park River, N. D. Circuit-controller. No. 913,383; Feb. 23; Sp. p. 4866; Gaz. vol. 139; p. 871.
- Holland, W. H., South Bend, Ind. Machine for making boxes. No. 919,866; Apr. 27; Sp. p. 6241; Gaz. vol. 141; p. 1065.
- Holland, W. L., Preston, England. Carding-engine and like machine. No. 927,242; July 6; Sp. p. 1120; Gaz. vol. 144; p. 182.
- Hollander, C., Manchester, assignor to Drakes Limited, Ovenden, Halifax, England. Apparatus for discharging retorts used in the manufacture of coal-gas and the like. No. 912,679; Feb. 16; Sp. p. 3429; Gaz. vol. 139; p. 612.
- Hollander, L., *et al.* (See Taylor and Elkins, assignors.)
- Hollar, J. H., Chicago, Ill. Roller-skate. No. 931,064; Aug. 17; Sp. p. 3044; Gaz. vol. 145; p. 533.
- Hollas, W., R. Farnworth, and T. Jackson, Bolton, England. Beating-up mechanism of looms for weaving. No. 939,503; Nov. 9; Sp. p. 2336; Gaz. vol. 148; p. 387.
- Holleman, F. A., The Hague, Netherlands. Ventilating plant. No. 925,186; June 15; Sp. p. 4453; Gaz. vol. 143; p. 759.
- Hollenbeck, E. A., Funk, and E. W. Reed, Holdrege, Nebr. Beet-harvester. No. 924,905; June 15; Sp. p. 3892; Gaz. vol. 143; p. 663.
- Hollenbeck, E. B., Candor, N. Y. Man's hat. No. 923,384; July 20; Sp. p. 3514; Gaz. vol. 144; p. 621.
- Hollenbeck, J. B., Madison, Ind. Whip-socket lock. No. 925,635; June 22; Sp. p. 5309; Gaz. vol. 143; p. 933.
- Hollenbeck, N. M., Glenrock, Wyo. Device for detaching horses. No. 934,171; Sept. 14; Sp. p. 2458; Gaz. vol. 146; p. 404.
- Holley, E. D. (See Holley, J. R. and E. D.)
- Holley, E. D. (See Trewhella and Holley.)
- Holley, E. D., Forestville, assignor to American Silver Company, Bristol, Conn. Shutter for chafing-dish lamps. No. 926,487; June 29; Sp. p. 7076; Gaz. vol. 143; p. 1248.
- Holley, E. D., Forestville, and L. R. Root, assignors to Bristol Brass Company, Bristol, Conn. Electrically-heated flat-iron. No. 912,471; Feb. 16; Sp. p. 2986; Gaz. vol. 139; p. 540.
- Holley, F. S., Stockton, Cal. Threshing-machine. No. 917,434; Apr. 6; Sp. p. 948; Gaz. vol. 141; p. 165.
- Holley, J. J., Holmen, Wis. Dish-washing machine. No. 926,744; July 6; Sp. p. 79; Gaz. vol. 144; p. 12.
- Holley, J. R., assignor to Bristol Brass Company, Bristol, Conn. Percolator. No. 913,293; Feb. 23; Sp. p. 4678; Gaz. vol. 139; p. 840.
- Holley, J. R., Bristol, and E. D. Holley, Forestville, Conn. Heating device. No. 926,188; June 29; Sp. p. 6512; Gaz. vol. 143; p. 1152.
- Holliday, A. F., *et al.* (See Wright, W. J., assignor.)
- Holliday, J. S., Wilkinsburg, assignor to Union Switch & Signal Company, Swissvale, Pa. Electric signaling system for railways. No. 917,763; Apr. 13; Sp. p. 1610; Gaz. vol. 141; p. 299.
- Hollinger, T. T., Detroit, Mich. Production of linoleum imitating wood. No. 918,153; Apr. 13; Sp. p. 2421; Gaz. vol. 141; p. 434.
- Hollings, H., Otley, England. Automatic sheet-feeder for printing and folding machines and the like. No. 942,036; Nov. 30; Sp. p. 7842; Gaz. vol. 148; p. 1321.
- Hollingsworth, G. R., Chicago, Ill. Changeable exhibitor. No. 933,075; Sept. 7; Sp. p. 75; Gaz. vol. 146; p. 13.
- Hollins, D. M., Blackburn, England, assignor to Draper Company, Hopedale, Mass. Replenishment of filling in automatic looms. No. 920,871; May 4; Sp. p. 1599; Gaz. vol. 142; p. 255.
- Hollis, H. L., Chicago, Ill. Electrolytic process. No. 916,155; Mar. 23; Sp. p. 5095; Gaz. vol. 140; p. 902.
- Hollis, H. L., Chicago, Ill. Railway-tie. No. 943,409; Dec. 14; Sp. p. 3951; Gaz. vol. 149; p. 497.
- Hollis, H. L., Chicago, Ill. Railway-tie. No. 943,410; Dec. 14; Sp. p. 2952; Gaz. vol. 149; p. 498.
- Hollister, C. F., assignor to Stilson Motor Car Company, Pittsfield, Mass. Clutch. No. 928,656; July 20; Sp. p. 4067; Gaz. vol. 144; p. 709.
- Hollister, H. L., West Minneapolis, Minn. Composition board and producing same. No. 915,860; Mar. 23; Sp. p. 4542; Gaz. vol. 140; p. 807.
- Holliwell, C. (See Billington and Holliwell.)
- Holm, G. H., Bridgeport, Conn. Tool-holder-securing device. No. 922,429; May 18; Sp. p. 4789; Gaz. vol. 142; p. 829.
- Holmann, A., Montclair, N. J. Door-adjusting device. No. 933,985; Sept. 14; Sp. p. 2077; Gaz. vol. 146; p. 342.
- Hollomon, B. B., *et al.* (See Jacob, R. F., assignor.)
- Hollometer, W. H., Portland, Oreg. Internal-combustion engine. No. 926,564; June 29; Sp. p. 7207; Gaz. vol. 143; p. 1274.
- Holloway, A., Rochester, N. Y. Pipe connection. No. 943,677; Dec. 21; Sp. p. 3560; Gaz. vol. 149; p. 620.
- Holloway, C. C., Washington, D. C. Rotary engine. No. 915,296; Mar. 16; Sp. p. 3389; Gaz. vol. 140; p. 592.
- Holloway, C. H. (See Swindell and Holloway.)
- Holloway, W. L., Barnesville, Ohio. Nut-lock. No. 926,867; July 6; Sp. p. 342; Gaz. vol. 144; p. 55.
- Holloway, W. M., Chicago, Ill. Squeezer. No. 941,146; Nov. 23; Sp. p. 5966; Gaz. vol. 148; p. 1003.
- Holloway, W. M., Chicago, Ill. Soldering-machine. No. 941,147; Nov. 23; Sp. p. 5969; Gaz. vol. 148; p. 1004.
- Hollowell, O. E., *et al.* (See Johnson, C. N., assignor.)
- Holly, C., assignor of one-half to J. A. Ward and one-half to J. McLean, Lockport, N. Y. Looping-machine. No. 936,898; Oct. 12; Sp. p. 2698; Gaz. vol. 147; p. 450.
- Holly, C. C., *et al.* (See Holly, S. T., assignor.)
- Holly, E. P., Roxbury, Mass., assignor to Holly Steam Engineering Company. Impelling device for circulating systems. No. 917,070; Apr. 6; Sp. p. 214; Gaz. vol. 141; p. 40.
- Holly, G. T. (See Knobel, A., assignor.)
- Holly, H. J., Beaman, Iowa. Harvester. No. 921,110; May 11; Sp. p. 2074; Gaz. vol. 142; p. 366.
- Holly, S. T., assignor of one-fourth to L. M. Marston, one-fourth to A. M. Marston, and one-fourth to C. C. Holly, Los Angeles, Cal. Turbine. No. 931,871; Aug. 24; Sp. p. 4749; Gaz. vol. 145; p. 822.
- Holly, S. T., assignor of one-fourth to L. M. Marston, one-fourth to A. M. Marston, and one-fourth to C. C. Holly, Los Angeles, Cal. Rotary motor. No. 931,872; Aug. 24; Sp. p. 4753; Gaz. vol. 145; p. 822.
- Holly, S. T., assignor of one-fourth to C. C. Holly, one-fourth to L. M. Marston, and one-fourth to A. M. Marston, Los Angeles, Cal. Regulator for turbines. No. 942,828; Dec. 7; Sp. p. 1645; Gaz. vol. 149; p. 269.
- Holly, S. T., assignor of one-fourth to C. C. Holly, one-fourth to L. M. Marston, and one-fourth to A. M. Marston, Los Angeles, Cal. Turbine. No. 942,829; Dec. 7; Sp. p. 1649; Gaz. vol. 149; p. 269.
- Holly Steam Engineering Company. (See Holly, E. P., assignor.)
- Holly, W. J., Pewamo, Mich. Washbench. No. 919,353; Apr. 27; Sp. p. 5132; Gaz. vol. 141; p. 891.
- Holm, A. (See Speirs and Holm.)
- Holm, E., and A. Wobus, St. Louis, Mo. Combination brush and shoe-polisher. No. 934,613; Sept. 21; Sp. p. 3310; Gaz. vol. 146; p. 576.
- Holman, D. H., Moscow, Idaho. Hunting-knife. No. 924,070; June 8; Sp. p. 2107; Gaz. vol. 143; p. 351.
- Holman, F. E., assignor of one-half to J. E. Innis, Silverton, Oreg. Phonograph. No. 939,692; Nov. 9; Sp. p. 2752; Gaz. vol. 148; p. 454.
- Holman, G. M., Daphne, assignor of one-half to A. E. Mason, Monroeville, Ala. Nut-lock. No. 913,501; Feb. 23; Sp. p. 5099; Gaz. vol. 139; p. 911.
- Holman, H. P., Utica, Ill. Tile-making machine. No. 918,855; Apr. 27; Sp. p. 3946; Gaz. vol. 141; p. 694.
- Holman, S. A., Penryn, Cal. Wrench. No. 937,304; Oct. 19; Sp. p. 3543; Gaz. vol. 147; p. 613.
- Holman, S. A., Penryn, Cal. Plate or pan lifter. No. 937,305; Oct. 19; Sp. p. 3545; Gaz. vol. 147; p. 613.
- Holman, S. A., Santa Maria, Cal. Wrench. No. 943,545; Dec. 14; Sp. p. 3238; Gaz. vol. 149; p. 545.
- Holmberg, J. A., Lindsborg, Kans. Grapple. No. 910,062; Jan. 19; Sp. p. 3282; Gaz. vol. 138; p. 605.
- Holmes, A., Seattle, Wash. Trousers stretcher and hanger. No. 934,172; Sept. 14; Sp. p. 2459; Gaz. vol. 146; p. 404.
- Holmes, A. J., Gouverneur, N. Y. Shaft-aligner. No. 922,143; May 18; Sp. p. 4204; Gaz. vol. 142; p. 735.
- Holmes, A. J., Rockville, Conn., assignor to Belding Brothers & Co. Dental-floss spool. No. 944,992; Dec. 28; Sp. p. 6366; Gaz. vol. 149; p. 1093.
- Holmes, A. L., Grand Rapids, Mich. Meter connection. No. 913,892; Mar. 2; Sp. p. 468; Gaz. vol. 140; p. 77.
- Holmes, E. B. (See Beugler, E. F., assignor.)
- Holmes, E. R., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Shuttle-operating mechanism for narrow-ware looms. No. 914,048; Mar. 2; Sp. p. 850; Gaz. vol. 140; p. 131.



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- Holmes, F. M., New York, N. Y. Photographing-machine. No. 930,378; Aug. 10; Sp. p. 1525; Gaz. vol. 145; p. 277.
- Holmes, F. M., and T. I. Swagerty, Fontana, Kans. Ironing-board. No. 927,408; July 6; Sp. p. 1414; Gaz. vol. 144; p. 235.
- Holmes, G., assignor to Robert Holmes & Brothers, Danville, Ill. Cager and sump-guard. No. 931,203; Aug. 17; Sp. p. 3342; Gaz. vol. 145; p. 581.
- Holmes, G., assignor to Robert Holmes & Brothers, Danville, Ill. Excavating-machine. No. 933,451; Sept. 7; Sp. p. 931; Gaz. vol. 146; p. 143.
- Holmes, G. A., Newton Center, assignor to United States Fastener Company, Boston, Mass. Snap-fastener. No. 911,042; Feb. 2; Sp. p. 36; Gaz. vol. 139; p. 9.
- Holmes, G. A., Newton Center, assignor to United States Fastener Company, Boston, Mass. Snap-fastener. No. 913,325; Apr. 13; Sp. p. 2768; Gaz. vol. 141; p. 490.
- Holmes, G. A., Newton Center, assignor to United States Fastener Company, Boston, Mass. Snap-fastener member. No. 926,871; July 6; Sp. p. 353; Gaz. vol. 144; p. 56.
- Holmes, G. M., Kingston, assignor to L. E. Holmes, Bryantville, Mass. Berry-picker. No. 924,552; June 8; Sp. p. 3131; Gaz. vol. 143; p. 511.
- Holmes, G. P. (See Hall and Holmes.)
- Holmes, H., Duffey, Cal. Guide attachment. No. 934,809; Sept. 21; Sp. p. 3687; Gaz. vol. 146; p. 640.
- Holmes, H. C., San Francisco, Cal. Pile structure. No. 920,061; Apr. 27; Sp. p. 6638; Gaz. vol. 141; p. 1129.
- Holmes, J. A., Chicago, Ill. Background-support. No. 916,316; Mar. 23; Sp. p. 5382; Gaz. vol. 140; p. 955.
- Holmes, J. P., Ocean City, N. J. Reinforced-concrete piling. No. 942,142; Dec. 7; Sp. p. 257; Gaz. vol. 149; p. 38.
- Holmes, L. E. (See Holmes, G. M., assignor.)
- Holmes, R. C., North Bend, Oreg. Cigar-piercing device. No. 933,250; Sept. 7; Sp. p. 510; Gaz. vol. 146; p. 78.
- Holmes, T., San Francisco, Cal. Sewing-awl and combination-tool. No. 916,708; Mar. 30; Sp. p. 6183; Gaz. vol. 140; p. 1108.
- Holmes, T. E., assignor to Davy Brothers Limited, Sheffield, England. Steam-hammer. No. 929,433; July 27; Sp. p. 5662; Gaz. vol. 144; p. 994.
- Holmes, W. D., New Bloomfield, Pa. Knife and fork scourer. No. 940,018; Nov. 16; Sp. p. 3449; Gaz. vol. 148; p. 596.
- Holmes, W. E., Seattle, Wash. Needle-shower. No. 914,573; Mar. 9; Sp. p. 1932; Gaz. vol. 140; p. 330.
- Holmes, W. E., Seattle, Wash. Spray or needle bath device. No. 944,611; Dec. 28; Sp. p. 5577; Gaz. vol. 149; p. 967.
- Holmes, W. J., Toronto, Ontario, Canada. Saw-filing machine. No. 923,266; June 1; Sp. p. 319; Gaz. vol. 143; p. 50.
- Holmes, W. M., Hoosick Falls, N. Y., assignor to Planters Compress Company, Boston, Mass. Machine for compressing cotton, &c. No. 931,762; Aug. 24; Sp. p. 4529; Gaz. vol. 145; p. 788.
- Holmested, F. K., Quinnimont, W. Va. Loading-machine. (Reissue.) No. 12,919; Feb. 16; Sp. p. 4050; Gaz. vol. 139; p. 710.
- Holmested, F. K., Quinnimont, W. Va. Loading-machine. No. 944,438; Dec. 28; Sp. p. 5159; Gaz. vol. 149; p. 905.
- Holmgren, A., Lake Park, Minn. Punching-machine. No. 910,063; Jan. 19; Sp. p. 3283; Gaz. vol. 138; p. 605.
- Holmgren, F., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Drop-hammer or the like. No. 937,938; Oct. 26; Sp. p. 4878; Gaz. vol. 147; p. 842.
- Holmgren, J. A., New Britain, assignor of one-half to J. E. Johnson, Meriden, Conn. Coffee-pot. No. 942,558; Dec. 7; Sp. p. 1108; Gaz. vol. 149; p. 180.
- Holmqvist, G. (See Karlström and Holmqvist.)
- Holmström, C. O. R., Stockholm, Sweden. Apparatus for cleaning sacks inside. No. 920,573; May 4; Sp. p. 970; Gaz. vol. 142; p. 158.
- Holmström, J. G. (See Egnér and Holmström.)
- Holnagel, W. A., Saginaw, Mich. Interlocking lever for silo-doors. No. 941,679; Nov. 30; Sp. p. 7098; Gaz. vol. 148; p. 1200.
- Holophane Glass Company. (See Lansingh, V. R., assignor.)
- Holsman, H. K. (See Bryan, C. H., assignor.)
- Holsman, H. K., Chicago, Ill. Automobile. No. 937,211; Oct. 19; Sp. p. 3347; Gaz. vol. 147; p. 582.
- Holsman, H. K., Chicago, Ill. Braking mechanism for automobiles. No. 937,212; Oct. 19; Sp. p. 3353; Gaz. vol. 147; p. 582.
- Holsman, I., Portland, Oreg. Souvenir locket-spoon. No. 939,840; Nov. 9; Sp. p. 3058; Gaz. vol. 148; p. 505.
- Holsman, J. A. (See Baum, A. G., assignor.)
- Holst, C., New York, N. Y. Fireman's truck. No. 911,981; Feb. 9; Sp. p. 1957; Gaz. vol. 139; p. 343.
- Holst, E. K. M., Altona, assignor to J. H. A. Schaar, Hamburg, Germany. Elastic composition. No. 928,053; July 13; Sp. p. 2813; Gaz. vol. 144; p. 479.
- Holst & Fleischer *et al.* (See Refsum, E. and T., assignors.)
- Holt, D. E. (See Hunter, Akeley, and Holt.)
- Holt, E. A., Montgomery, Ala. Greenhouse. No. 926,119; June 29; Sp. p. 6346; Gaz. vol. 143; p. 1127.
- Holt, G., Watervliet, N. Y. Pipe or rod carrier. No. 942,446; Dec. 7; Sp. p. 864; Gaz. vol. 149; p. 141.
- Holt, H. B. (See Elliott, Conn. and Holt.)
- Holt, H. P., Grand Junction, Colo. Orchard-heater. No. 926,120; June 29; Sp. p. 6348; Gaz. vol. 143; p. 1127.
- Holt, L., Burlington, N. C. Rotary engine. No. 917,436; Apr. 6; Sp. p. 950; Gaz. vol. 141; p. 165.
- Holt, L., Burlington, N. C. Milking-machine. No. 924,229; June 8; Sp. p. 2493; Gaz. vol. 143; p. 404.
- Holt, L. E., *et al.* (See Tassey, J. C., assignor.)
- Holt Manufacturing Company. (See Martyn, J., assignor.)
- Holt, S. A., *et al.* (See Tassey, J. C., assignor.)
- Holt, T. H. A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 944,620; Dec. 28; Sp. p. 5589; Gaz. vol. 149; p. 970.
- Holt, W. O., assignor to Livermore & Knight Company, Providence, R. I. Advertising-card. No. 940,316; Nov. 16; Sp. p. 4154; Gaz. vol. 148; p. 701.
- Holtman, A., Kansas City, Mo. Gas-burner. No. 938,423; Oct. 26; Sp. p. 5940; Gaz. vol. 147; p. 1007.
- Holton, C. H., Baltimore, Md. Mail-box. No. 934,173; Sept. 14; Sp. p. 2461; Gaz. vol. 146; p. 405.
- Holton, F., assignor to Frank Holton & Company, Chicago, Ill. Trombone. No. 932,704; Aug. 31; Sp. p. 6516; Gaz. vol. 145; p. 1123.
- Holton, H. (See Malmquist, E. H. E., assignor.)
- Holton, H. M., New York, N. Y. Pyrographical tool. No. 936,720; Oct. 12; Sp. p. 2357; Gaz. vol. 147; p. 392.
- Holton, H. M., New York, N. Y. Coupling for gas-conduits. No. 936,721; Oct. 12; Sp. p. 2358; Gaz. vol. 147; p. 392.
- Holton & Weatherwax Co. (See Scheiffel, G. D., assignor.)
- Holtz, G., Gouldsboro, Pa. Dental or surgical chair. No. 936,131; Oct. 5; Sp. p. 1120; Gaz. vol. 147; p. 170.
- Holzer, C. J., New Orleans, La. Window frame and sash. No. 934,530; Sept. 21; Sp. p. 3136; Gaz. vol. 146; p. 547.
- Holtzer-Cabot Electric Company. (See Balcome, H. A., assignor.)
- Holtzer-Cabot Electric Company. (See Balcome and Freier, assignors.)
- Holtzer-Cabot Electric Company. (See Heeney, H. J., assignor.)
- Holtzer-Cabot Electric Company. (See Kennedy, C. L., assignor.)
- Holtzhouser, J. P., assignor to Stanley Works, New Britain, Conn. Door-holder. No. 919,579; Apr. 27; Sp. p. 5636; Gaz. vol. 141; p. 968.
- Holtzhouser, J. P., assignor to Stanley Works, New Britain, Conn. Door-bolt or door-holder. No. 919,580; Apr. 27; Sp. p. 5638; Gaz. vol. 141; p. 969.
- Holtzhouser, J. P., assignor to Stanley Works, New Britain, Conn. Chain-bolt. No. 919,581; Apr. 27; Sp. p. 5639; Gaz. vol. 141; p. 969.
- Holtzmann, J., Baltimore, Md. Instrument for handling semiplastic substances. No. 939,693; Nov. 9; Sp. p. 2753; Gaz. vol. 148; p. 454.
- Holub-Dusha Co. (See Holub, L. W., assignor.)
- Holub, L. W., assignor to Holub-Dusha Co., New York, N. Y. Chuck. No. 943,616; Dec. 14; Sp. p. 3418; Gaz. vol. 149; p. 570.
- Holwick, B. C., Canton, Ohio. Coffee-mill. No. 927,971; July 13; Sp. p. 2848; Gaz. vol. 144; p. 450.
- Holy, E., Berlin, Germany. Petroleum-burner for incandescent light. No. 929,948; Aug. 3; Sp. p. 692; Gaz. vol. 145; p. 110.
- Holyoke Machine Company. (See Reid, A., assignor.)
- Holzer, C. J., New Orleans, La. Sash-fastener. No. 915,437; Mar. 16; Sp. p. 3669; Gaz. vol. 140; p. 638.
- Holzer, H., assignor to Vereinigte Maschinenfabrik Augsburg Maschinenbaugesellschaft Nürnberg A. G., Nuremberg, Germany. Casing for centrifugal pumps and blowers. No. 944,864; Dec. 28; Sp. p. 6121; Gaz. vol. 149; p. 1051.
- Holzhauser, O., Augsburg, Germany. Machine for stretching and straightening whalebone. No. 931,204; Aug. 17; Sp. p. 3345; Gaz. vol. 145; p. 581.
- Holzhausen, R. J. (See Dolge and Holzhausen.)
- Holzschelter, F., and T. Hegi, Zurich, Switzerland. Dovetailing-machine. No. 916,555; Mar. 30; Sp. p. 5909; Gaz. vol. 140; p. 1060.
- Holzweissig, A., Elberfeld, Germany. Confectionery-packing device. No. 915,767; Mar. 23; Sp. p. 4379; Gaz. vol. 140; p. 778.
- Homan, G., Passaic, N. J. Sliding-door stop and fastener. No. 913,821; Mar. 2; Sp. p. 295; Gaz. vol. 140; p. 51.
- Home Specialty Manufacturing Company. (See Rush, F. J., assignor.)
- Homeler, G. T., *et al.* (See Frost, R. L., assignor.)
- Homer Roberts Telephone Co. (See Roberts, Soans, and Graves, assignors.)

*Alphabetical list of patentees—Continued.*

- Homer, W. B., Springfield, S. D. Gate. No. 937,997; Oct. 26; Sp. p. 5001; Gaz. vol. 147; p. 862.
- Homire, L. W., Louisville, Ky. Moistening device. No. 940,598; Nov. 16; Sp. p. 4772; Gaz. vol. 148; p. 795.
- Hommel, W., assignor to Metals Extraction Corporation, Limited, London, England. Apparatus for use in solution and precipitation processes. No. 918,749; Apr. 20; Sp. p. 3721; Gaz. vol. 141; p. 660.
- Hommel, W., assignor to Metals Extraction Corporation, Limited, London, England. Furnace for volatile metals. No. 932,279; Aug. 24; Sp. p. 5618; Gaz. vol. 145; p. 958.
- Homolka, B., Frankfurt-on-the-Main, and R. Welde, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Leuco body containing sulfur and making same. No. 943,678; Dec. 21; Sp. p. 3561; Gaz. vol. 149; p. 620.
- Honeywell, M. C., Wabash, Ind. Fitting for hot-water heating-pipes. No. 921,111; May 11; Sp. p. 2076; Gaz. vol. 142; p. 366.
- Honeywood, D., Battersea, England. Crushing and grinding mill. No. 921,248; May 11; Sp. p. 2355; Gaz. vol. 142; p. 413.
- Honiss, W. H., *et al.* (See Lorenz, W. A., assignor.)
- Honold, G., Stuttgart, Germany. Electromagnetically-operated interrupter igniting device for explosion-motors. No. 920,745; May 4; Sp. p. 1320; Gaz. vol. 142; p. 214.
- Honold, G., Stuttgart, Germany. Electrical interrupter for explosive-engines. No. 931,065; Aug. 17; Sp. p. 3046; Gaz. vol. 145; p. 533.
- Honold, G., Stuttgart, Germany. Electromagnetic igniter for explosion-engines. No. 931,066; Aug. 17; Sp. p. 3048; Gaz. vol. 145; p. 534.
- Honold, G. F., Sheboygan, Wis. Embalming-table. No. 943,679; Dec. 21; Sp. p. 3562; Gaz. vol. 149; p. 620.
- Honolulu Iron Works Company. (See Crozier and Dyer, assignors.)
- Honolulu Iron Works Company. (See Dyer and Ginaca, assignors.)
- Honsowsky, B., St. Petersburg, Russia. Manufacturing artificial cork. No. 925,104; June 15; Sp. p. 4291; Gaz. vol. 143; p. 731.
- Hons, A., and S. E. Martz, Berwick, Pa. Trolley-guard. No. 926,565; June 29; Sp. p. 7209; Gaz. vol. 143; p. 1275.
- Honsinger, F. S., assignor to S. L. Weisberg, Syracuse, N. Y. Syringe. No. 911,724; Feb. 9; Sp. p. 1393; Gaz. vol. 139; p. 259.
- Honsowetz, B., Lac du Flambeau, Wis. Veil-clasp. No. 931,308; Aug. 17; Sp. p. 3586; Gaz. vol. 145; p. 618.
- Hood, A. M., assignor to Von Duprin Fire Exit Latch Co., Indianapolis, Ind. Emergency-exit attachment for knob-latches. No. 927,654; July 13; Sp. p. 1982; Gaz. vol. 144; p. 346.
- Hood, A. N. (See Price and Hood.)
- Hood, C. H., Somerville, Mass. Apparatus for cleansing, sterilizing, and drying milk-can covers. No. 934,404; Sept. 14; Sp. p. 2893; Gaz. vol. 146; p. 483.
- Hood, E. K., Indianapolis, Ind. Pump. No. 910,539; Jan. 26; Sp. p. 4313; Gaz. vol. 138; p. 792.
- Hood, E. K., assignor to C. Bradford, Indianapolis, Ind. Tally-box. No. 909,185; Jan. 12; Sp. p. 1554; Gaz. vol. 138; p. 281.
- Hood, E. K., assignor of one-half to C. Bradford, Indianapolis, Ind. Scoot-swing. No. 913,642; Feb. 23; Sp. p. 5442; Gaz. vol. 139; p. 958.
- Hood, H. H., Charlotte, N. C. Cotton-chopper. No. 925,475; June 22; Sp. p. 4989; Gaz. vol. 143; p. 881.
- Hood, J., Boston, Mass. Measuring device. No. 941,253; Nov. 23; Sp. p. 6193; Gaz. vol. 148; p. 1039.
- Hood, O. P., Houghton, Mich. Means for balancing crushers. No. 919,582; Apr. 27; Sp. p. 5640; Gaz. vol. 141; p. 970.
- Hood Rubber Company. (See Duncan, W. W., assignor.)
- Hood Rubber Company. (See Flora, C. P., assignor.)
- Hood, T. H., Wortham, Tex. Mixer. No. 921,991; May 18; Sp. p. 3920; Gaz. vol. 142; p. 685.
- Hood, W. C., assignor of one-half to C. W. Dietrich, Chicago, Ill. Current-testing device for electric batteries. No. 930,474; Aug. 10; Sp. p. 1711; Gaz. vol. 145; p. 309.
- Hoode, E. J., Benson, Minn. Cable-tension holder. No. 916,317; Mar. 23; Sp. p. 5384; Gaz. vol. 140; p. 956.
- Hoofnagle, M. S., *et al.* (See Hoofnagle, W. T., assignor.)
- Hoofnagle, W. T., Bloomfield, N. J., assignor to M. W. Clephane, New York, N. Y., and M. S. Hoofnagle. Machine for forming justified lines of type. No. 912,961; Feb. 16; Sp. p. 3989; Gaz. vol. 139; p. 702.
- Hook, C. H., Pittsburg, Pa. Heater. No. 919,172; Apr. 20; Sp. p. 4558; Gaz. vol. 141; p. 797.
- Hook, C. S., *et al.* (See Noble, R. H., assignor.)
- Hook, C. S., Toronto, Ontario, Canada, assignor of one-half to T. C. Hook. Combined friction and jaw clutch. No. 930,859; Aug. 10; Sp. p. 2538; Gaz. vol. 145; p. 438.
- Hook, D. W., Old Forge, N. Y. Folding chair. No. 910,818; Jan. 26; Sp. p. 4895; Gaz. vol. 138; p. 883.
- Hook, R. K., Atlanta, Ga. Canopy. No. 937,529; Oct. 19; Sp. p. 4051; Gaz. vol. 147; p. 688.
- Hook, T. C. (See Hook, C. S., assignor.)
- Hook, T. C., *et al.* (See Noble, R. H., assignor.)
- Hook, W. W., Spokane, Wash. Skirt. No. 914,414; Mar. 9; Sp. p. 1619; Gaz. vol. 140; p. 276.
- Hooker, F. S. (See Blackwood, J. P., assignor.)
- Hooker, J. H., Buckingham, England. Baking-powder. No. 942,072; Dec. 7; Sp. p. 63; Gaz. vol. 149; p. 12.
- Hooker, L. E. (See Smith and Hooker.)
- Hooker, L. E., Pawtucket, R. I. Metal-tube machine. No. 918,154; Apr. 13; Sp. p. 2422; Gaz. vol. 141; p. 434.
- Hooker, L. E., Pawtucket, R. I. Manufacturing cartridge-shells. No. 922,585; May 25; Sp. p. 5118; Gaz. vol. 142; p. 908.
- Hooker, L. E., Pawtucket, R. I. Making closed-end tubes. No. 934,174; Sept. 14; Sp. p. 2462; Gaz. vol. 146; p. 405.
- Hooker, C. H. (See Hookey, S. and C. H.)
- Hookey, S. and C. H., Wyandotte, Mich. Can-blank-forming machine. No. 917,296; Apr. 6; Sp. p. 697; Gaz. vol. 141; p. 119.
- Hookham, G. (See Sprague and Hookham.)
- Hookham, G., Birmingham, England. Electricity-meter. No. 925,187; June 15; Sp. p. 4454; Gaz. vol. 143; p. 760.
- Hookham, G., and S. H. Holden, Birmingham, England. Electrolytic meter. No. 919,724; Apr. 27; Sp. p. 5929; Gaz. vol. 141; p. 1017.
- Hooks, G. W., Sourlake, Tex. Stirrup. No. 931,607; Aug. 17; Sp. p. 4139; Gaz. vol. 145; p. 713.
- Hoop, G. A., De Soto, Mo. Flour-shaker. No. 942,903; Dec. 14; Sp. p. 1855; Gaz. vol. 149; p. 326.
- Hooper, C. S., Erie, Pa. Water-tube boiler. No. 920,139; May 4; Sp. p. 98; Gaz. vol. 142; p. 14.
- Hooper, C. S., Erie, Pa. Water-tube boiler. No. 920,140; May 4; Sp. p. 99; Gaz. vol. 142; p. 14.
- Hooper, J. C., and J. W. Bratt, Brunswick, assignors of one-third to A. Knell, Jr., Baltimore, Md. Hose-pipe coupling. No. 926,415; June 29; Sp. p. 6951; Gaz. vol. 143; p. 1224.
- Hooper, W. H. (See Steuart and Hooper.)
- Hooper, W. H., Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Channel-lip-turning machine. No. 940,019; Nov. 16; Sp. p. 3451; Gaz. vol. 148; p. 596.
- Hooper, W. H., Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Lip-turning machine. No. 940,020; Nov. 16; Sp. p. 3454; Gaz. vol. 148; p. 596.
- Hooper, W. H., Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Insole-reinforcing machine. No. 940,690; Nov. 23; Sp. p. 4984; Gaz. vol. 148; p. 851.
- Hooper, W. H., Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Channel-moistening device for sewing-machines. No. 940,691; Nov. 23; Sp. p. 4987; Gaz. vol. 148; p. 851.
- Hooper, W. H., Lynn, assignor to T. G. Plant, Boston, Mass. Insole-reinforcing machine. No. 944,239; Dec. 21; Sp. p. 4715; Gaz. vol. 149; p. 808.
- Hooper, W. H., Lynn, assignor to T. G. Plant, Boston, Mass. Boot and shoe tree and stretcher. No. 944,365; Dec. 28; Sp. p. 5000; Gaz. vol. 149; p. 880.
- Hooper, W. H., Detroit, Mich. Combined refuse-burner, garbage and ash receptacle. No. 930,475; Aug. 10; Sp. p. 1713; Gaz. vol. 145; p. 310.
- Hoople, N., Duluth, Minn. Grain-car door. No. 921,761; May 18; Sp. p. 3318; Gaz. vol. 142; p. 590.
- Hoops, H. G., Byron, Nebr., assignor of one-half to G. Bostelman. Chicken-brooder. No. 911,500; Feb. 2; Sp. p. 905; Gaz. vol. 139; p. 158.
- Hoose, M. M. (See Summers, J. S., assignor.)
- Hooton, E. A., Bamberg, S. C. Ribbon rack and measurer. No. 914,275; Mar. 2; Sp. p. 1322; Gaz. vol. 140; p. 204.
- Hoover, C. (See Crum and Loy, assignors.)
- Hoover, D. J., Mansfield, Ohio. Revolving tooth for harrows. No. 937,607; Oct. 19; Sp. p. 4192; Gaz. vol. 147; p. 714.
- Hoover, F. K., and A. J. Mason, Chicago, Ill. Scale-car. No. 933,452; Sept. 7; Sp. p. 934; Gaz. vol. 146; p. 43.
- Hoover, G. W., assignor of one-fourth to A. Robinson and one-fourth to J. E. Ostrander, St. Thomas, Ontario, Canada. Fastening device. No. 925,189; June 15; Sp. p. 4457; Gaz. vol. 143; p. 760.
- Hoover, J. H. (See Taylor, V. C., assignor.)
- Hoover, J. H., Philadelphia, Pa. Self-igniting cigar. No. 928,451; July 20; Sp. p. 3650; Gaz. vol. 144; p. 643.
- Hoover, J. H., Waterloo, Iowa. Milking-machine. No. 929,764; Aug. 3; Sp. p. 278; Gaz. vol. 145; p. 48.
- Hoover, J. S., Mount Sherman, Ky. Floor-mop. No. 930,546; Aug. 10; Sp. p. 1900; Gaz. vol. 145; p. 335.
- Hoover, T. A., San Fernando, Cal. Whip-socket. No. 924,661; June 15; Sp. p. 3369; Gaz. vol. 143; p. 581.
- Hope, A. C., F. Farquhar, and C. A. Hickey, Vancouver, British Columbia, Canada. Safety door-latch. No. 943,973; Dec. 21; Sp. p. 4173; Gaz. vol. 149; p. 722.
- Hope, C. R., Chicago, Ill. Tobacco-box. No. 926,944; July 6; Sp. p. 494; Gaz. vol. 144; p. 80.
- Hope, F. P. C., *et al.* (See Green, G., assignor.)
- Hopewell, C. F., *et al.* (See Kinder, A. H., assignor.)
- Hopewell, F. B., *et al.* (See Kinder, A. H., assignor.)



*Alphabetical list of patentees—Continued.*

- Hopkins, A., Boston, Mass. Machine for cleaning gloves, &c. No. 929,222; July 27; Sp. p. 5209; Gaz. vol. 144; p. 924.
- Hopkins & Allen Arms Company. (See Gates, W. H., assignor.)
- Hopkins, C. L., Chicago, Ill., assignor to Curtain Supply Company, Newark, N. J. Curtain-holding device. No. 911,982; Feb. 9; Sp. p. 1960; Gaz. vol. 139; p. 344.
- Hopkins, C. L., Chicago, Ill., assignor to Curtain Supply Company, Newark, N. J. Curtain-fixture. No. 924,781; June 15; Sp. p. 3627; Gaz. vol. 143; p. 622.
- Hopkins, C. L., Albany, N. Y., assignor to Curtain Supply Company, Newark, N. J. Shade-holding device. No. 913,138; Feb. 23; Sp. p. 4364; Gaz. vol. 139; p. 788.
- Hopkins, D. W., Golconda, Ill. Egg-tester. No. 920,464; May 4; Sp. p. 751; Gaz. vol. 142; p. 121.
- Hopkins, E. F., Chicago, Ill. Wire-stretcher. No. 938,488; Nov. 2; Sp. p. 91; Gaz. vol. 148; p. 14.
- Hopkins, E. H., Addlestone, England. Apparatus for use in smelting zinc ore, galvanizer's dross, and the like. No. 914,839; Mar. 9; Sp. p. 2495; Gaz. vol. 140; p. 416.
- Hopkins, E. L., Albion, assignor of one-half to A. M. Knowles, Homer, Mich. Band-cutter and feeder. No. 922,902; May 25; Sp. p. 5797; Gaz. vol. 142; p. 1011.
- Hopkins, E. W., *et al.* (See Thorin, P. A., assignor.)
- Hopkins, J., Boardman, Wis. Quack-grass digger. No. 942,559; Dec. 7; Sp. p. 1109; Gaz. vol. 149; p. 180.
- Hopkins, J. E., Grand Island, Nebr. Shade and curtain hanger. No. 914,276; Mar. 2; Sp. p. 1323; Gaz. vol. 140; p. 205.
- Hopkins, J. M., Lexington, Ky. Hospital-bed elevator and rest. No. 923,525; June 1; Sp. p. 914; Gaz. vol. 143; p. 141.
- Hopkins, J. M., Chicago, Ill. Car-body. No. 926,416; June 29; Sp. p. 6953; Gaz. vol. 143; p. 1225.
- Hopkins, J. M., Chicago, Ill. Car-body. No. 933,903; Sept. 14; Sp. p. 1917; Gaz. vol. 146; p. 317.
- Hopkins, L. A., Chicago, Ill. Tie-plate. No. 919,867; Apr. 27; Sp. p. 6248; Gaz. vol. 141; p. 1065.
- Hopkins, M. K., assignor to H. D. Pulsifer, Chicago, Ill. Sprinkler-head for automatic fire-extinguishers. No. 935,257; Sept. 28; Sp. p. 4588; Gaz. vol. 146; p. 816.
- Hopkins, M. S., and C. R. Barnett, Baltimore, Md. Recovery of ingredients of oily inks. No. 932,470; Aug. 31; Sp. p. 6011; Gaz. vol. 145; p. 1043.
- Hopkins, M. S., and C. R. Barnett, Roland Park, Md. Recovery of ingredients of oily ink. No. 932,548; Aug. 31; Sp. p. 6172; Gaz. vol. 145; p. 1070.
- Hopkins, M. S., and C. R. Barnett, Roland Park, Md. Recovery of ingredients of oily ink. No. 932,549; Aug. 31; Sp. p. 6175; Gaz. vol. 145; p. 1070.
- Hopkins, M. S., and C. R. Barnett, Roland Park, Md. Apparatus for recovery of ingredients of oily ink. No. 932,550; Aug. 31; Sp. p. 6178; Gaz. vol. 145; p. 1071.
- Hopkins, N. M., Washington, D. C. Dynamometer thermo-couple for explosion-engines. No. 935,154; Sept. 28; Sp. p. 4385; Gaz. vol. 146; p. 783.
- Hopkinson, B., Cambridge, England. Steam-engine and like indicator. No. 912,680; Feb. 16; Sp. p. 3431; Gaz. vol. 139; p. 612.
- Hopkinson, E. (See Midgley and Hopkinson.)
- Hopkinson, E., East Orange, N. J. Vehicle-wheel. No. 937,808; Oct. 26; Sp. p. 4607; Gaz. vol. 147; p. 798.
- Hopkirk, J., assignor of two-thirds to C. S. Wiley and W. H. Lewis, Seattle, Wash. Conveyer-pipe. No. 930,668; Aug. 10; Sp. p. 2149; Gaz. vol. 145; p. 376.
- Hopley, A. E., Hayward, Cal. Ice-cream freezer. No. 942,260; Dec. 7; Sp. p. 496; Gaz. vol. 149; p. 77.
- Hoppe, A. C. (See Mayle and Hoppe.)
- Hoppe, C., Cincinnati, and C. Becker, St. Bernard, assignors to C. Hoppe & Company, Cincinnati, Ohio. Hat-frame machine. No. 938,380; Oct. 26; Sp. p. 5847; Gaz. vol. 147; p. 992.
- Hoppe & Company, C. (See Hoppe and Becker, assignors.)
- Hoppe, E. M., Sparta, Ill. Extension step-ladder. No. 918,553; Apr. 20; Sp. p. 3251; Gaz. vol. 141; p. 592.
- Hoppe, O., Brookline, assignor to American Circular Loom Company, Boston, Mass. Flexible conduit. No. 924,782; June 15; Sp. p. 3629; Gaz. vol. 143; p. 623.
- Hopper, G. H. (See Patterson and Hopper.)
- Hopper, J., Fulham, England. Road-vehicle. No. 932,551; Aug. 31; Sp. p. 6181; Gaz. vol. 145; p. 1071.
- Hopper, J. F., Sherman, Tex. Valve for engines. No. 910,540; Jan. 26; Sp. p. 4313; Gaz. vol. 138; p. 792.
- Hopper, T. M., Suffern, assignor to Ramapo Iron Works, Hillburn, N. Y. Railway-frog. No. 926,488; June 29; Sp. p. 7077; Gaz. vol. 143; p. 1248.
- Hopper, W., Jefferson, Iowa. Wire-fence stretcher. No. 913,334; Feb. 23; Sp. p. 4868; Gaz. vol. 139; p. 871.
- Hopper, W., Jefferson, Iowa. Clamp for woven-wire-fence stretchers. No. 913,385; Feb. 23; Sp. p. 4870; Gaz. vol. 139; p. 872.
- Hopper, W., Jefferson, Iowa. Windmill-tower. No. 939,504; Nov. 9; Sp. p. 2338; Gaz. vol. 148; p. 388.
- Hopper, W. E. (See Lasswell, Hopper, Cheely, and Lasswell.)
- Hoppes, G. W. (See Green and Brasket, assignors.)
- Hoppesch, J. P., Chicago, Ill. Horseshoe-calk. No. 923,177; June 1; Sp. p. 126; Gaz. vol. 143; p. 20.
- Hopping, C. O., Longbeach, Cal. Bicycle coaster-brake lock. No. 925,810; June 22; Sp. p. 5716; Gaz. vol. 143; p. 990.
- Hoppler, E. E., Lucville, Pa. Button. No. 909,598; Jan. 12; Sp. p. 2350; Gaz. vol. 138; p. 417.
- Hopson, C. A. (See McDonald and Hopson.)
- Hopton, L. R., Plainfield, N. J., assignor of one-half to Enos Company, New York, N. Y. Emergency-lock. No. 908,864; Jan. 5; Sp. p. 898; Gaz. vol. 138; p. 142.
- Hopton, L. R., Plainfield, N. J., assignor to Enos Company, New York, N. Y. Shade-holder. No. 921,992; May 18; Sp. p. 3921; Gaz. vol. 142; p. 685.
- Horath, G. C. (See Horath and Williams.)
- Horath, N. and G. C., and R. Williams, Keensburg, Ill. Knee-pad for miners. No. 926,328; June 29; Sp. p. 6795; Gaz. vol. 143; p. 1195.
- Horzodovsky, J. G., Cleveland, Ohio. Means for operating and locking car-doors. No. 910,819; Jan. 26; Sp. p. 4897; Gaz. vol. 138; p. 883.
- Hore, J. M., Pittsburg, Pa. Conveying apparatus. No. 923,356; June 1; Sp. p. 570; Gaz. vol. 143; p. 82.
- Horevitz, A. L. de. (See Popp and Horevitz.)
- Hornek, J., Atwood, Kans. Cultivator. No. 911,876; Feb. 9; Sp. p. 1660; Gaz. vol. 139; p. 308.
- Hornek, J., Atwood, Kans. Belt-replacer. No. 911,983; Feb. 9; Sp. p. 1962; Gaz. vol. 139; p. 344.
- Hornek, J., Atwood, Kans. Agricultural implement. No. 916,868; Mar. 30; Sp. p. 6475; Gaz. vol. 140; p. 1156.
- Hornby, J., Springfield, Mass. Turbine. No. 927,534; July 13; Sp. p. 1707; Gaz. vol. 144; p. 305.
- Hornby, J., Springfield, Mass. Turbine. No. 927,535; July 13; Sp. p. 1710; Gaz. vol. 144; p. 305.
- Hornby, J., Springfield, Mass. Turbine. No. 927,536; July 13; Sp. p. 1712; Gaz. vol. 144; p. 305.
- Horn, A., Bukaczowce, Austria-Hungary. Snow-plow. No. 909,301; Jan. 12; Sp. p. 1775; Gaz. vol. 138; p. 319.
- Horn, A. C., New York, N. Y. Fixed-color cementitious compound and producing the same. No. 932,280; Aug. 24; Sp. p. 5619; Gaz. vol. 145; p. 959.
- Horn, C. P. (See Emal and Horn.)
- Horn, E. (See Scheller and Haas, assignors.)
- Horn, E. H., assignor to Waterbury Clock Co., Waterbury, Conn. Watch. No. 926,329; June 29; Sp. p. 6796; Gaz. vol. 143; p. 1196.
- Horn, F. M., Glasco, Kans. Replanting attachment for cultivators. No. 937,306; Oct. 19; Sp. p. 3547; Gaz. vol. 147; p. 613.
- Horn, J., assignor of one-half to J. Lambert, Pima, Ariz. Ter. Rake. No. 910,382; Jan. 19; Sp. p. 3986; Gaz. vol. 138; p. 716.
- Horn, R. W. P., New Castle, Pa. Kiln. No. 929,765; Aug. 3; Sp. p. 281; Gaz. vol. 145; p. 49.
- Horn, W. H., Jr., Philadelphia, Pa. Knitted fabric. No. 930,180; Aug. 3; Sp. p. 1174; Gaz. vol. 145; p. 191.
- Hornbeck, L. B., Minneapolis, Minn. Chandelier. No. 943,148; Dec. 14; Sp. p. 2419; Gaz. vol. 149; p. 411.
- Hornberger, C., and B. Bath, Pittsburg, Pa. Puffing-iron. No. 928,054; July 13; Sp. p. 2815; Gaz. vol. 144; p. 479.
- Hornberger, W. H., Doylestown, Ohio. Tool-handle. No. 915,675; Mar. 16; Sp. p. 4183; Gaz. vol. 140; p. 721.
- Horne, A. D., Glasgow, Scotland. Steam-trap. No. 925,773; June 22; Sp. p. 5636; Gaz. vol. 143; p. 977.
- Horne, A. D., Glasgow, Scotland. Thermostatic valve. No. 940,155; Nov. 16; Sp. p. 3779; Gaz. vol. 148; p. 644.
- Horne, G. A. (See Fox and Horne.)
- Horne, J. (See Dawson and Horne.)
- Horne, J. A., London, England. Means for wrapping up tin cans or other articles. No. 929,434; July 27; Sp. p. 5665; Gaz. vol. 144; p. 995.
- Horne, J. A., assignor of one-third to G. C. Brownell, Oregon City, Ore. Antifraud-bottle. No. 924,230; June 8; Sp. p. 2495; Gaz. vol. 143; p. 405.
- Horne, J. A., assignor of one-third to G. C. Brownell, Oregon City, Ore. Tunnel attachment. No. 936,628; Oct. 12; Sp. p. 2179; Gaz. vol. 147; p. 360.
- Horne, J. A., assignor of one-third to G. C. Brownell, Oregon City, Ore. Tunnel attachment. No. 936,629; Oct. 12; Sp. p. 2180; Gaz. vol. 147; p. 360.
- Horne, J. A., assignor of one-third to G. C. Brownell, Oregon City, Ore. Car-fender. No. 942,727; Dec. 7; Sp. p. 1442; Gaz. vol. 149; p. 236.
- Horne, J. F., assignor to Revolving Dairy Filter Company, Portland, Me. Filter for milk-pails. No. 919,431; Apr. 27; Sp. p. 5305; Gaz. vol. 141; p. 917.

*Alphabetical list of patentees—Continued.*

- Horne, T. J. (See Fixter, E., assignor.)
- Hornecker, G. M., Whiting, Ind. Motor-cycle. No. 926,745; July 6; Sp. p. 80; Gaz. vol. 144; p. 12.
- Horner, H. O., and J. P. Boyland, New York, N. Y. Double-acting internal-combustion engine. No. 943,597; Dec. 14; Sp. p. 3334; Gaz. vol. 149; p. 562.
- Horner, J. E., assignor of one-half to D. L. Harman, Forest, Ohio. Fender. No. 923,654; June 1; Sp. p. 1205; Gaz. vol. 143; p. 185.
- Horner, J. T., Youngstown, Ohio. Transforming scrap-pipe into flat metal. No. 910,684; Jan. 26; Sp. p. 4615; Gaz. vol. 138; p. 840.
- Horner, R. W., *et al.* (See Horner, S. E., assignor.)
- Horner, S. E., Bridgeton, N. J. Sink-strainer stopper. No. 927,047; July 6; Sp. p. 733; Gaz. vol. 144; p. 115.
- Horner, S. E., Ogontz, Pa., assignor of two-thirds to R. W. Horner, New York, N. Y., one-sixth to C. E. Woodruff, Bridgeton, N. J., and one-sixth to R. T. Brooks, Swarthmore, Pa. Strainer for sinks, bath-tubs, &c. No. 926,417; June 29; Sp. p. 6955; Gaz. vol. 143; p. 1225.
- Horner, S. F., assignor of one-half to W. Smith, Enid, Okla. Harrow. No. 910,541; Jan. 26; Sp. p. 4315; Gaz. vol. 138; p. 793.
- Horner, T. N., Lawton, Okla. Register. No. 925,636; June 22; Sp. p. 5312; Gaz. vol. 143; p. 934.
- Horning, R. A., assignor of one-fourth to H. Hepler and one-fourth to J. M. Lindsay, Lanark, Ill. Vise. No. 917,437; Apr. 6; Sp. p. 954; Gaz. vol. 141; p. 166.
- Hornof, J., Holesov, Austria-Hungary. Malt-kiln. No. 929,435; July 27; Sp. p. 5666; Gaz. vol. 144; p. 995.
- Hornor, H. A., Riverton, N. J. Electromagnetic apparatus for reciprocating machine-tools and the like. No. 915,438; Mar. 16; Sp. p. 3670; Gaz. vol. 140; p. 639.
- Hornquist, F., Johnsonburg, Pa. Drag-saw. No. 940,876; Nov. 23; Sp. p. 5384; Gaz. vol. 148; p. 912.
- Hornung, A., Czarna, near Pilzno, and I. Sperling, Tarnopol, Austria-Hungary. Electric belt. No. 910,474; Jan. 19; Sp. p. 4183; Gaz. vol. 138; p. 747.
- Hornung, J., Dresden, Ohio. Railway-tie. No. 918,554; Apr. 20; Sp. p. 3252; Gaz. vol. 141; p. 592.
- Horr, H. H., Chicago, Ill. Wooden receptacle. No. 931,694; Aug. 17; Sp. p. 4308; Gaz. vol. 145; p. 742.
- Horrell, F., Lawrence, Kans. Music-leaf turner. No. 921,249; May 11; Sp. p. 2360; Gaz. vol. 142; p. 414.
- Horrell, J. B., and A. S. Bryant, Santa Paula, assignors to H. K. Miller Manfg. Co., Glendora, Cal. Machine for brushing and polishing fruit and other objects. No. 944,993; Dec. 28; Sp. p. 6366; Gaz. vol. 149; p. 1093.
- Horridge, J. M., Los Angeles, Cal. Controller-valve. No. 930,860; Aug. 10; Sp. p. 2539; Gaz. vol. 145; p. 438.
- Horsfall, H., Pittsburg, Pa. Friction-clutch. No. 917,764; Apr. 13; Sp. p. 1613; Gaz. vol. 141; p. 300.
- Horsman Co., E. I. (See Clark, C. W., assignor.)
- Horst, J., Harrisburg, Pa. Heater. No. 929,436; July 27; Sp. p. 5668; Gaz. vol. 144; p. 995.
- Horst, R. A. (See Zierlein, R. W., assignor.)
- Horstmann, H. C., assignor of one-fourth to S. Evans and one-fourth to J. H. McElroy, Chicago, Ill. Electrical type-writer. No. 919,432; Apr. 27; Sp. p. 5307; Gaz. vol. 141; p. 918.
- Horstmann, H. C., assignor of one-fourth to S. Evans and one-fourth to J. H. McElroy, Chicago, Ill. Electric selecting mechanism. No. 929,133; July 27; Sp. p. 5034; Gaz. vol. 144; p. 895.
- Hortenbach, A. M., Minneapolis, Minn. Hat-hook. No. 936,899; Oct. 12; Sp. p. 2705; Gaz. vol. 147; p. 451.
- Horth, R. R., *et al.* (See Sheeley, C. M., assignor.)
- Horton, A. C., *et al.* (See Harrison and Peterson, assignors.)
- Horton, C. M., Elizabeth, N. J., assignor to Singer Manufacturing Company. Sewing-machine. No. 932,391; Aug. 24; Sp. p. 5817; Gaz. vol. 145; p. 994.
- Horton, C. W., Belle River, Ill. Concrete construction. No. 942,447; Dec. 7; Sp. p. 866; Gaz. vol. 149; p. 141.
- Horton, G. H. (See Burns and Horton.)
- Horton, J. A., Providence, R. I., assignor to Iroquois Machine Company, New York, N. Y. Inverted drum for wiredrawing-machines. No. 911,305; Feb. 2; Sp. p. 557; Gaz. vol. 139; p. 95.
- Horton, J. B., Elkin, N. C. Device for fastening telephones to walls. No. 933,838; Sept. 14; Sp. p. 1787; Gaz. vol. 146; p. 296.
- Horton, J. M., Arcata, Cal. Take-down article of furniture. No. 924,353; June 8; Sp. p. 2741; Gaz. vol. 143; p. 447.
- Horton Manufacturing Company. (See Van Wormer, A., assignor.)
- Horwitz, J. H., New York, N. Y. File-book, &c. No. 910,286; Jan. 19; Sp. p. 3795; Gaz. vol. 138; p. 683.
- Hosack, L. L., Youngstown, A. H. Geltz, Alliance, and W. W. McBane, Youngstown, Ohio, assignors to C. B. McLean, trustee, Pittsburg, Pa. Air-brake apparatus. No. 930,379; Aug. 10; Sp. p. 1530; Gaz. vol. 145; p. 277.
- Hosaka, J. K., San Francisco, Cal. Automatic advertising device. No. 930,963; Aug. 10; Sp. p. 2774; Gaz. vol. 145; p. 471.
- Hosay, F. H., Gallatin, Tenn. Brace for dashboards. No. 941,711; Nov. 30; Sp. p. 7189; Gaz. vol. 148; p. 1212.
- Hosch, G. E., New York, N. Y. Box. No. 924,354; June 8; Sp. p. 2742; Gaz. vol. 143; p. 447.
- Hosch, G. E., New York, N. Y. Safety-guard for locks and latches. No. 941,877; Nov. 30; Sp. p. 7547; Gaz. vol. 148; p. 1269.
- Hosford, D. M., Cleveland, Ohio. Fluid-distributing system. No. 929,852; Aug. 3; Sp. p. 489; Gaz. vol. 145; p. 78.
- Hosford, F., Sterrett, Tex. Harrow. No. 923,845; June 8; Sp. p. 1684; Gaz. vol. 143; p. 279.
- Hoshino, K., Kings county, Cal. Horse-rake. No. 928,517; July 20; Sp. p. 3775; Gaz. vol. 144; p. 663.
- Hoskin, G. C., Le Mars, Iowa. Tire-protector. No. 911,984; Feb. 9; Sp. p. 1965; Gaz. vol. 139; p. 345.
- Hoskins, B., Seattle, Wash. Adding and number-listing machine. No. 933,453; Sept. 7; Sp. p. 938; Gaz. vol. 146; p. 143.
- Hoskins, G. J., Burwood, near Sydney, New South Wales, Australia. Machinery for upsetting the edges of rolled-metal plates. No. 917,765; Apr. 13; Sp. p. 1616; Gaz. vol. 141; p. 300.
- Hoskins, W. (See Turton, T., assignor.)
- Hoskins, W. La Grange, Ill. Sizing composition. No. 940,317; Nov. 16; Sp. p. 4156; Gaz. vol. 148; p. 701.
- Hoskins, Z. T., Chicago, Ill. Combined rail joint and chair. No. 943,880; Dec. 21; Sp. p. 3966; Gaz. vol. 149; p. 689.
- Hosler, J. W., Chicago, Ill. Inverted incandescent gas-lamp. No. 923,972; June 8; Sp. p. 1923; Gaz. vol. 143; p. 321.
- Hosley, N. D., assignor to Wilcox & White Company, Meriden, Conn. Speed-control mechanism for air-motors. No. 929,593; July 27; Sp. p. 5947; Gaz. vol. 144; p. 1046.
- Hosley, N. D., assignor to Wilcox & White Company, Meriden, Conn. Mechanical piano. No. 932,705; Aug. 31; Sp. p. 6518; Gaz. vol. 145; p. 1123.
- Hosmer, J. E., Silverton, Oreg. Gravity hand-cultivator. No. 933,986; Sept. 14; Sp. p. 2078; Gaz. vol. 146; p. 343.
- Hossfeld, A., Lewistown, Minn. Steam-engine valve-gear. No. 909,302; Jan. 12; Sp. p. 1776; Gaz. vol. 138; p. 319.
- Hossfeld, W., Kansas City, Mo. Trunk. No. 916,709; Mar. 30; Sp. p. 6188; Gaz. vol. 140; p. 1108.
- Hostler, J. M. (See Clements and Hostler.)
- Hotchkiss, C. A., Bridgeport, Conn. Game device. No. 934,175; Sept. 14; Sp. p. 2463; Gaz. vol. 146; p. 405.
- Hotchkiss, C. C., Great Bend, Kans. Shipping-case. No. 934,810; Sept. 21; Sp. p. 3689; Gaz. vol. 146; p. 641.
- Hotchkiss, C. R., Water Valley, Miss. Paper-roll carrier, guide, and cutter. No. 909,599; Jan. 12; Sp. p. 2351; Gaz. vol. 138; p. 417.
- Hotchkiss, E. H., Norwalk, Conn., and C. Beach, Catskill, N. Y. Machine for affixing stamps. No. 936,630; Oct. 12; Sp. p. 2182; Gaz. vol. 147; p. 361.
- Hotchkiss, E. H., Norwalk, Conn., and C. Beach, Catskill, N. Y. Machine for affixing stamps. No. 936,631; Oct. 12; Sp. p. 2185; Gaz. vol. 147; p. 361.
- Hotchkiss, F. H., Shelton, Conn. Die. No. 939,505; Nov. 9; Sp. p. 2340; Gaz. vol. 148; p. 388.
- Hothersall, J. M., assignor to American Can Company, New York, N. Y. Folded-corner pan or vessel. No. 927,537; July 13; Sp. p. 1713; Gaz. vol. 144; p. 306.
- Hothersall, J. M., assignor to American Can Company, New York, N. Y. Folded-corner can or vessel. No. 927,538; July 13; Sp. p. 1714; Gaz. vol. 144; p. 306.
- Hott, J. J., *et al.* (See Cooper, F. W., assignor.)
- Hotta, Z., Tokyo, Japan. Antifouling and anticorrosive composition. No. 916,869; Mar. 30; Sp. p. 6477; Gaz. vol. 140; p. 1157.
- Hotta, Z., Tokyo, Japan. Composition for preventing the corrosion and galvanic-electric action of metallic substances. No. 916,870; Mar. 30; Sp. p. 6478; Gaz. vol. 140; p. 1157.
- Hotzman, C. W., assignor to H. Read, Philadelphia, Pa. Cake-mixer. No. 911,985; Feb. 9; Sp. p. 1966; Gaz. vol. 139; p. 345.
- Hotz, H., *et al.* (See Hasel, R., assignor.)
- Houck, G. H., Tonawanda, N. Y. Bicycle handle-bar. No. 918,856; Apr. 20; Sp. p. 3952; Gaz. vol. 141; p. 695.
- Houck, J. D., Toledo, Ohio. Tool for removing eyes from vegetables. No. 911,010; Jan. 26; Sp. p. 5240; Gaz. vol. 138; p. 944.
- Houck, J. D., Toledo, Ohio. Coffee-percolator. No. 919,583; Apr. 27; Sp. p. 5644; Gaz. vol. 141; p. 970.
- Houck, J. D., Toledo, Ohio. Fruit-picker. No. 921,402; May 11; Sp. p. 2699; Gaz. vol. 142; p. 463.
- Houck, J. D., Chicago, Ill. Percolator for coffee-urns. No. 944,865; Dec. 28; Sp. p. 6122; Gaz. vol. 149; p. 1052.
- Houck, J. D., Chicago, Ill. Cherry-pitter. No. 944,866; Dec. 28; Sp. p. 6122; Gaz. vol. 149; p. 1052.
- Houdaille, M., Paris, France. Shock-absorbing apparatus. No. 933,076; Sept. 7; Sp. p. 78; Gaz. vol. 146; p. 13.
- Houdyshell, D., Poneto, Ind. Post-brace. No. 913,502; Feb. 23; Sp. p. 5101; Gaz. vol. 139; p. 911.
- Hough, A. C., assignor to Hough Shade Corporation, Janesville, Wis. Slat for porch-shades and the like. No. 932,127; Aug. 24; Sp. p. 5323; Gaz. vol. 145; p. 908.
- Hough, E. B., Stockton, Cal. Automatic self-adjusting pneumatic-music-player action-valve. No. 930,476; Aug. 10; Sp. p. 1714; Gaz. vol. 145; p. 310.



*Alphabetical list of patentees—Continued.*

- Hough, E. D., Los Angeles, and E. E. Wilson, Tustin, Cal. Fruit-drying apparatus. No. 931,873; Aug. 24; Sp. p. 4759; Gaz. vol. 145; p. 823.
- Hough, E. D., Los Angeles, and E. E. Wilson, Tustin, Cal. Drying and grading apparatus. No. 937,213; Oct. 19; Sp. p. 3358; Gaz. vol. 147; p. 583.
- Hough, E. S., San Francisco, Cal. Hull construction for vessels. No. 922,903; May 25; Sp. p. 5798; Gaz. vol. 142; p. 1011.
- Hough, J., Guelph, Ontario, Canada. Bottle-opener. No. 926,807; July 6; Sp. p. 203; Gaz. vol. 144; p. 34.
- Hough, J., Guelph, Ontario, Canada. Belt-buckle. No. 926,808; July 6; Sp. p. 204; Gaz. vol. 144; p. 34.
- Hough, J. B., Batavia, N. Y. Can-opener. No. 921,250; May 11; Sp. p. 2361; Gaz. vol. 142; p. 414.
- Hough Shade Corporation. (See Hough, A. C., assignor.)
- Hough, T. C., Minneapolis, Minn. Stencil. No. 931,309; Aug. 17; Sp. p. 3587; Gaz. vol. 145; p. 618.
- Hough, W. J., Toledo, Ohio. Recovering resinous matter. No. 931,608; Aug. 17; Sp. p. 4140; Gaz. vol. 145; p. 713.
- Hough, W. S., Jr. (See Wiley and Hough.)
- Hough, Z., and L. F. Weaver, Banning, Pa. Reflector for miners' lamps. No. 923,655; June 1; Sp. p. 1206; Gaz. vol. 143; p. 185.
- Hougham, A. A. (See Fuller, E., assignor.)
- Hougham, H., Manhattan, Kans. Closure for window-casing pockets. No. 925,188; June 15; Sp. p. 4455; Gaz. vol. 143; p. 760.
- Houghland, J. E., Eldon, Iowa. Combined pulverizer and planter. No. 928,452; July 20; Sp. p. 3650; Gaz. vol. 144; p. 643.
- Houghland, W. E., Brooklyn, N. Y. Bronzing-machine. No. 944,192; Dec. 21; Sp. p. 4631; Gaz. vol. 149; p. 794.
- Houghton, J. (See De Wind and Houghton.)
- Houghtaling-Coult Manufacturing Company. (See Coult, J. H., assignor.)
- Houghtaling, P. A., Riverton, assignor to Curtin Supply Company, Newark, N. J. Curtain-fixture. No. 909,186; Jan. 12; Sp. p. 1556; Gaz. vol. 138; p. 281.
- Houghton, A. S., *et al.* (See Herzog, J., assignor.)
- Houghton, C. W., Dubuque, Iowa. Headlight-cover. No. 940,156; Nov. 16; Sp. p. 3780; Gaz. vol. 148; p. 645.
- Houghton, E. E., Birmingham, Ala. Pneumatic attachment for mortising-machines. No. 928,758; July 20; Sp. p. 4266; Gaz. vol. 144; p. 743.
- Houghton, L. T., Worcester, Mass. Top-roll mechanism. No. 908,464; Jan. 5; Sp. p. 58; Gaz. vol. 138; p. 12.
- Houghton, L. T., Worcester, Mass. Roving-clamp for spinning or twisting machines. No. 919,354; Apr. 27; Sp. p. 5133; Gaz. vol. 141; p. 891.
- Houghton, L. T., Worcester, Mass. Spool-head. No. 919,355; Apr. 27; Sp. p. 5135; Gaz. vol. 141; p. 891.
- Houghton, L. T., Worcester, Mass. Holding means for jack-spools. No. 925,811; June 22; Sp. p. 5717; Gaz. vol. 143; p. 990.
- Houghton, L. T., Worcester, Mass. Top-roll-saddle mechanism. No. 927,539; July 13; Sp. p. 1716; Gaz. vol. 144; p. 306.
- Houghton, L. T., Worcester, Mass. Top-roll-saddle mechanism. No. 927,540; July 13; Sp. p. 1719; Gaz. vol. 144; p. 307.
- Houghton, M. A., Boston, Mass. Raised puzzle for the blind. No. 941,680; Nov. 30; Sp. p. 7099; Gaz. vol. 148; p. 1200.
- Houghton, O. C., assignor to H. E. and J. E. Bullock, Chicago, Ill. Picking-spindle for cotton-harvesters. No. 931,926; Aug. 24; Sp. p. 4897; Gaz. vol. 145; p. 840.
- Houghton, O. C., assignor to H. E. and J. E. Bullock, Chicago, Ill. Cotton gathering and gleaning machine. No. 938,864; Nov. 2; Sp. p. 885; Gaz. vol. 148; p. 142.
- Houghton, W., Brinnon, Wash. Conduit. No. 928,606; July 20; Sp. p. 3969; Gaz. vol. 144; p. 692.
- Houghton, W., Bath, Me. Indicator. No. 939,422; Nov. 9; Sp. p. 2173; Gaz. vol. 148; p. 361.
- Hougland, F. H., assignor of one-fourth to I. Seligstein, St. Louis, Mo. Mail-bag-delivering apparatus. No. 915,439; Mar. 16; Sp. p. 3674; Gaz. vol. 140; p. 639.
- Houle, L. J. (See Carter and Houle.)
- Houlehan, J. (See Mayo and Houlehan.)
- Houlihan, V. J., assignor to Rochester Cooperage Company, Rochester, N. Y. Barrel-head turner. No. 910,542; Jan. 26; Sp. p. 4317; Gaz. vol. 138; p. 793.
- Houlker, W., Nelson, New Zealand. Cask and the like. No. 919,433; Apr. 27; Sp. p. 5312; Gaz. vol. 141; p. 918.
- Houpt, J. (See Peltier, A., assignor.)
- Houriban, J. J., Troy, N. Y. Non-refillable bottle. No. 944,439; Dec. 28; Sp. p. 5164; Gaz. vol. 149; p. 906.
- House, E. D., assignor to Hart & Cooley Company, New Britain, Conn. Register or ventilator. No. 941,367; Nov. 30; Sp. p. 6444; Gaz. vol. 148; p. 1097.
- House, H. A., Bridgeport, Conn. Recoil-check for vehicles. No. 915,440; Mar. 16; Sp. p. 3678; Gaz. vol. 140; p. 639.
- House, H. A., Bridgeport, Conn. Spring-controller. No. 927,048; July 6; Sp. p. 734; Gaz. vol. 144; p. 116.
- House, M. M. (See Payne and House.)
- Houseman, C. D. (See Lycett and Houseman.)
- Houser, A. M., assignor to Crane Company, Chicago, Ill. Water-closet. No. 920,465; May 4; Sp. p. 752; Gaz. vol. 142; p. 121.
- Houser, A. M., assignor to Crane Company, Chicago, Ill. Valve-operating mechanism. No. 923,526; June 1; Sp. p. 916; Gaz. vol. 143; p. 141.
- Houser, J. O., Cincinnati, Ohio. Automatic flasher for electric lights. No. 935,207; Sept. 28; Sp. p. 4491; Gaz. vol. 146; p. 799.
- Houskeeper, W. G., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-lamp. No. 917,867; Apr. 13; Sp. p. 1822; Gaz. vol. 141; p. 333.
- Houston, H., Lawrence, Mass. Sewing-machine. No. 920,141; May 4; Sp. p. 99; Gaz. vol. 142; p. 15.
- Houston, H. A., *et al.* (See Green, J. B., assignor.)
- Houston, R. W., Baltimore, Md. Bottle-holder. No. 932,128; Aug. 24; Sp. p. 5324; Gaz. vol. 145; p. 908.
- Houze, F. J., assignor of two-thirds to J. H. and N. Houze, Grand Rapids, Mich. Device for forming glass cylinders. No. 941,148; Nov. 23; Sp. p. 5974; Gaz. vol. 148; p. 1004.
- Houze, J. H., *et al.* (See Houze, F. J., assignor.)
- Houze, L., assignor of twenty-nine sixtieths to C. F. Niklaus, R. H. Willey, and A. Brannquart, Monterey, Cal. Composition of matter for use in fire-brick and the like and producing the same. No. 921,838; May 18; Sp. p. 3612; Gaz. vol. 142; p. 637.
- Houze, N., *et al.* (See Houze, F. J., assignor.)
- Houze, U., Grand Rapids, Mich. Glass heating and drawing furnace. No. 935,789; Oct. 5; Sp. p. 3993; Gaz. vol. 147; p. 58.
- Hovendick, J. E., Blair, Nebr. Wear-plate. No. 911,986; Feb. 9; Sp. p. 1967; Gaz. vol. 139; p. 345.
- Hover, A. H. (See Fries and Hover.)
- Hover, A. H., and A. N. Fries, Cincinnati, Ohio. Window-shade-adjuster gage. No. 934,531; Sept. 21; Sp. p. 3137; Gaz. vol. 146; p. 547.
- Hover, A. H., and A. N. Fries, Cincinnati, Ohio. Window-shade catch-pulley. No. 936,900; Oct. 12; Sp. p. 2707; Gaz. vol. 147; p. 451.
- Hover, N. A., Paterson, N. J. Warping-machine. No. 921,403; May 11; Sp. p. 2700; Gaz. vol. 142; p. 464.
- Hover, N. A., Paterson, N. J. Warping and beaming machine. No. 922,144; May 18; Sp. p. 4208; Gaz. vol. 142; p. 736.
- Hövmann, B., Salzwedel, Germany. Artificial-stone composition. No. 932,706; Aug. 31; Sp. p. 6519; Gaz. vol. 145; p. 1123.
- Hovey, H. J., Evanston, assignor to Bryant Zinc Company, Chicago, Ill. Electric alarm-signal. No. 933,369; Sept. 7; Sp. p. 762; Gaz. vol. 146; p. 119.
- Hovey, I., Newcastle, Ind. Internal-combustion engine. No. 943,598; Dec. 14; Sp. p. 3335; Gaz. vol. 149; p. 562.
- Hovey, S. C., Boston, Mass. Mail-bag catcher. No. 921,113; May 11; Sp. p. 2079; Gaz. vol. 142; p. 366.
- Hovey, W. S., assignor to Sheffield Car Company, Three Rivers, Mich. Railway motor-car. No. 914,347; Mar. 2; Sp. p. 1466; Gaz. vol. 140; p. 228.
- Hovey, W. S., assignor to Sheffield Car Company, Three Rivers, Mich. Railway motor-car. No. 914,348; Mar. 2; Sp. p. 1471; Gaz. vol. 140; p. 229.
- Hovey, W. S., assignor to Sheffield Car Company, Three Rivers, Mich. Transmission-gear. No. 939,914; Nov. 9; Sp. p. 3219; Gaz. vol. 148; p. 530.
- Hovey, W. S., and C. B. Stebbins, assignors to Sheffield Car Company, Three Rivers, Mich. Clutch. No. 940,970; Nov. 23; Sp. p. 5576; Gaz. vol. 148; p. 944.
- Hovey, W. S., and C. B. Stebbins, assignors to Sheffield Car Company, Three Rivers, Mich. Motor-car. No. 943,680; Dec. 21; Sp. p. 3563; Gaz. vol. 149; p. 620.
- Hovey, W. S., and C. B. Stebbins, assignors to Sheffield Car Company, Three Rivers, Mich. Motor-vehicle. No. 944,556; Dec. 28; Sp. p. 5445; Gaz. vol. 149; p. 947.
- Hovey, W. S., and M. H. Rix, assignors to Sheffield Car Company, Three Rivers, Mich. Railway motor-car. No. 938,582; Nov. 2; Sp. p. 326; Gaz. vol. 148; p. 48.
- Hovey, W. S., and M. H. Rix, assignors to Sheffield Car Company, Three Rivers, Mich. Motor hand-car. No. 939,423; Nov. 9; Sp. p. 2176; Gaz. vol. 148; p. 362.
- Hovey, W. S., and M. H. Rix, assignors to Sheffield Car Company, Three Rivers, Mich. Railway motor hand-car. No. 944,557; Dec. 28; Sp. p. 5453; Gaz. vol. 149; p. 947.
- Hovick, O. A. (See Gwinn and Hovick.)
- Hovik, A., *et al.* (See Gwinn and Hovick, assignors.)
- Hovland, A. I., Marshall, Minn. Ditching-machine. No. 915,963; Mar. 23; Sp. p. 4731; Gaz. vol. 140; p. 839.
- Hovland, A. M., *et al.* (See Edman, J., assignor.)

*Alphabetical list of patentees—Continued.*

- Hovsepian, J., assignor of one-half to G. Atmajian, Fresno, Cal. Ironing-board. No. 936,132; Oct. 5; Sp. p. 1126; Gaz. vol. 147; p. 171.
- How, B. V., Weston, Mass. Binnacle-light. No. 914,840; Mar. 9; Sp. p. 2497; Gaz. vol. 140; p. 417.
- How, R., Medaryville, Ind. Railway-tie. No. 926,418; June 29; Sp. p. 6956; Gaz. vol. 143; p. 1225.
- Howald, M. L. R., and J. M. McGeorge, Salem, Ohio. Transmission-gear. No. 913,503; Feb. 23; Sp. p. 5102; Gaz. vol. 139; p. 911.
- Howard, C. H. (See Adams and Howard.)
- Howard, C. H. (See Westlake, C. T., assignor.)
- Howard, C. H., St. Louis, Mo. Car-underframe. No. 919,356; Apr. 27; Sp. p. 5136; Gaz. vol. 141; p. 892.
- Howard, C. H., St. Louis, Mo. Car-underframe. No. 921,112; May 11; Sp. p. 2077; Gaz. vol. 142; p. 366.
- Howard, C. H., St. Louis, Mo. Car-underframe. No. 922,586; May 25; Sp. p. 5120; Gaz. vol. 142; p. 908.
- Howard, C. H., St. Louis, Mo. Railroad motor-car truck. No. 926,189; June 29; Sp. p. 6513; Gaz. vol. 143; p. 1152.
- Howard, C. H., St. Louis, Mo. Railway motor-car truck. No. 928,976; July 27; Sp. p. 4701; Gaz. vol. 144; p. 843.
- Howard, C. H., assignor to Cast Steel Tender and Engine Truck Company, St. Louis, Mo. Locomotive-engine truck. No. 916,556; Mar. 30; Sp. p. 5911; Gaz. vol. 140; p. 1060.
- Howard, C. H., assignor to Locomotive Tender Frame Company, St. Louis, Mo. Locomotive-tender frame. No. 940,157; Nov. 16; Sp. p. 3782; Gaz. vol. 148; p. 645.
- Howard, C. O. (See Frayer and Howard.)
- Howard, D. C., Helena, Mont. Utensil-handle. No. 921,404; May 11; Sp. p. 2702; Gaz. vol. 142; p. 464.
- Howard, E. A., Colorado Springs, Colo. Skirt gage and marker. No. 917,438; Apr. 6; Sp. p. 955; Gaz. vol. 141; p. 166.
- Howard, E. A., Colorado Springs, Colo. Obtaining the correct lengths of skirts. No. 917,439; Apr. 6; Sp. p. 956; Gaz. vol. 141; p. 166.
- Howard, F. H. (See Van Meter, A. A., assignor.)
- Howard, F. H., Brookside, near Reading, Pa. Chain-welding machine. No. 938,056; Oct. 26; Sp. p. 5127; Gaz. vol. 147; p. 881.
- Howard, F. H., Brookside, near Reading, Pa. Casting-machine. No. 942,073; Dec. 7; Sp. p. 65; Gaz. vol. 149; p. 13.
- Howard, G. (See Meredith, E. P., assignor.)
- Howard, G. A. (See Rowe and Howard.)
- Howard, H. W., Scranton, Pa. Time-controlled alarm mechanism. No. 940,692; Nov. 23; Sp. p. 4989; Gaz. vol. 148; p. 852.
- Howard, I. (See Campbell and Howard.)
- Howard, J., Loretto, Nebr. Harness-suspending means. No. 922,904; May 25; Sp. p. 5799; Gaz. vol. 142; p. 1011.
- Howard, J. F., Spokane, assignor of one-third to G. Cryderman, Spokane Bridge, Wash. Safety-brake device for railways. No. 912,846; Feb. 16; Sp. p. 3794; Gaz. vol. 139; p. 668.
- Howard, J. H., Kansas City, Kans. Overhead trolley. No. 910,197; Jan. 19; Sp. p. 3564; Gaz. vol. 138; p. 648.
- Howard, J. H., Durham, N. C., assignor to American Tobacco Company. Machine for packaging materials. No. 933,839; Sept. 14; Sp. p. 1789; Gaz. vol. 146; p. 296.
- Howard, J. L., assignor of one-third to S. Frank and one-third to A. D. Parsons, Amethyst, Colo. Joint for floor-coverings. No. 924,355; June 8; Sp. p. 2745; Gaz. vol. 143; p. 448.
- Howard, J. P., South Bend, Ind. Mail-delivering apparatus. No. 939,259; Nov. 9; Sp. p. 1751; Gaz. vol. 148; p. 303.
- Howard, J. W. (See Heaty and Howard.)
- Howard, J. W. and W. W., Westernport, Md. Car-coupling device. No. 931,927; Aug. 24; Sp. p. 4898; Gaz. vol. 145; p. 840.
- Howard, L. E., La Grange, Ill., assignor to Simonds Manufacturing Company, Fitchburg, Mass. Ingot-casting machine. No. 922,587; May 25; Sp. p. 5122; Gaz. vol. 142; p. 909.
- Howard, L. E., La Grange, Ill., assignor to Simonds Manufacturing Company, Fitchburg, Mass. Ingot-casting machine. No. 926,489; June 29; Sp. p. 7078; Gaz. vol. 143; p. 1248.
- Howard, L. E., La Grange, Ill., assignor to Simonds Manufacturing Company, Fitchburg, Mass. Fluid-pressure hammer. No. 931,609; Aug. 17; Sp. p. 4144; Gaz. vol. 145; p. 714.
- Howard, Q. T., and W. M. Stark, Muscatine, Iowa. Safety appliance. No. 935,605; Sept. 28; Sp. p. 5306; Gaz. vol. 146; p. 930.
- Howard, R., San Diego, Cal. Valve mechanism. No. 915,353; Mar. 16; Sp. p. 3497; Gaz. vol. 140; p. 610.
- Howard, R. H., Riverside, Cal. Pencil-making machine. No. 936,722; Oct. 12; Sp. p. 2359; Gaz. vol. 147; p. 392.
- Howard, R. W. (See Chaplin, O. R., assignor.)
- Howard, W., *et al.* (See Stewart, R. W. J., assignor.)
- Howard, W. F., Pipestone, Minn. Combination-tool. No. 920,746; May 4; Sp. p. 1322; Gaz. vol. 142; p. 214.
- Howard, W. F., West Ealing, and A. B. Cousins, Abingdon-on-Thames, England. Luminous electric heater. No. 940,021; Nov. 16; Sp. p. 3457; Gaz. vol. 148; p. 597.
- Howard, W. L., Trenton, N. J. Vehicle-wheel. No. 929,437; July 27; Sp. p. 5670; Gaz. vol. 144; p. 996.
- Howard, W. L., Trenton, N. J. Vehicle-wheel. No. 932,862; Aug. 31; Sp. p. 6835; Gaz. vol. 145; p. 1173.
- Howard, W. W. (See Howard, J. W. and W. W.)
- Howarth, A., Providence, R. I., assignor to Standard Carbureter Company, Providence, R. I. Carbureter. No. 922,145; May 18; Sp. p. 4212; Gaz. vol. 142; p. 736.
- Howarth, T., and J. V. Musgrave, Bradford, England. Drying apparatus. No. 930,756; Aug. 10; Sp. p. 2330; Gaz. vol. 145; p. 404.
- Howden & Company, J. (See Howden, J., assignor.)
- Howden, J., assignor to James Howden & Company, Limited, Glasgow, Scotland. Furnace-front. No. 923,178; June 1; Sp. p. 127; Gaz. vol. 143; p. 20.
- Howe, C. B., Newark, N. J. Registering cuts for color-printing. No. 927,049; July 6; Sp. p. 737; Gaz. vol. 144; p. 116.
- Howe, C. H., Leominster, Mass. Barrette. No. 921,702; May 18; Sp. p. 3320; Gaz. vol. 142; p. 591.
- Howe and Davidson Company. (See Davidson, F. B., assignor.)
- Howe, E. E., Battle Creek, Mich. Core compound. No. 912,129; Feb. 9; Sp. p. 2260; Gaz. vol. 139; p. 391.
- Howe, F. D., Fort Washington, N. Y. Engine. No. 908,569; Jan. 5; Sp. p. 286; Gaz. vol. 138; p. 48.
- Howe, F. D., Waltham, Mass. Engine. No. 908,570; Jan. 5; Sp. p. 287; Gaz. vol. 138; p. 48.
- Howe, F. D., assignor to Waltham Mfg. Company, Waltham, Mass. Controlling device. No. 914,277; Mar. 2; Sp. p. 1325; Gaz. vol. 140; p. 205.
- Howe, F. O., North Manchester, Ind. Artificial bait. No. 935,657; Oct. 5; Sp. p. 65; Gaz. vol. 147; p. 13.
- Howe, G. A. (See Francis, E. A., assignor.)
- Howe, H. C. (See Sowers, W. F., assignor.)
- Howe, H. E. (See Howe, J. B. and H. E.)
- Howe, H. M., Bedford, N. Y., assignor to Taylor Iron & Steel Company, High Bridge, N. J. Manganese-steel mold. No. 913,728; Mar. 2; Sp. p. 105; Gaz. vol. 140; p. 19.
- Howe, J. B. and H. E., Windber, Pa. Circuit-breaker. No. 932,863; Aug. 31; Sp. p. 6837; Gaz. vol. 145; p. 1173.
- Howe, L., Waupun, Wis. Hay-loader. No. 935,986; Oct. 5; Sp. p. 823; Gaz. vol. 147; p. 122.
- Howe, M. A., Tacoma, Wash. Automobile safety appliance. No. 935,108; Sept. 28; Sp. p. 4309; Gaz. vol. 146; p. 769.
- Howe, M. E., Morris, Ill. Chimney. No. 909,412; Jan. 12; Sp. p. 1980; Gaz. vol. 138; p. 353.
- Howe, S. G., assignor of one-fourth to W. E. Lennane, one-fourth to J. Lennane, and one-fourth to J. Lennane, Detroit, Mich. Road construction and repair. No. 940,971; Nov. 23; Sp. p. 5578; Gaz. vol. 148; p. 944.
- Howe, W. A., Morgan Park, Ill. Registering device for printers' chases. No. 908,571; Jan. 5; Sp. p. 289; Gaz. vol. 138; p. 49.
- Howe, W. K. (See Dodgson and Howe.)
- Howe, W. K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Electric signal. No. 933,756; Sept. 14; Sp. p. 1632; Gaz. vol. 140; p. 269.
- Howe, W. K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Means for reducing the reactance of electromagnetic devices for telephone-circuits. No. 934,811; Sept. 21; Sp. p. 3690; Gaz. vol. 146; p. 641.
- Howell, A. R. (See Browne and Howell.)
- Howell, B. C., Jr., Lebanon, Ohio. Music-leaf turner. No. 926,566; June 29; Sp. p. 7210; Gaz. vol. 143; p. 1275.
- Howell, C. W., Newark, N. J., assignor to Sun Typewriter Company. Type-writing machine. No. 923,527; June 1; Sp. p. 918; Gaz. vol. 143; p. 141.
- Howell, C. W., Jr., Newark, N. J., assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y. Type-bar construction for type-writers. No. 935,987; Oct. 5; Sp. p. 825; Gaz. vol. 147; p. 123.
- Howell, D. Z., assignor to J. R. Jones, Philadelphia, Pa. Bookbinding. No. 928,518; July 20; Sp. p. 3776; Gaz. vol. 144; p. 663.
- Howell, E. F., Wapanucka, Okla. Extension-step. No. 925,476; June 22; Sp. p. 4991; Gaz. vol. 143; p. 881.
- Howell, E. M., New York, N. Y. Extracting essences and tinctures from vanilla-beans. No. 921,251; May 11; Sp. p. 2362; Gaz. vol. 142; p. 414.
- Howell, F. B., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 941,456; Nov. 30; Sp. p. 6648; Gaz. vol. 148; p. 1127.
- Howell, G. F., Jr. (See Kraemer and Howell.)
- Howell, H., Waverly, N. Y. Work-clamp. No. 928,657; July 20; Sp. p. 4069; Gaz. vol. 144; p. 709.
- Howell, J. R. (See Paris and Millward, assignors.)
- Howell, J. T., Seattle, Wash. Car-stop. No. 911,501; Feb. 2; Sp. p. 906; Gaz. vol. 139; p. 159.



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- Howell, R. W., Kirkwood, Mo. Artificial fuel. No. 941,577; Nov. 30; Sp. p. 6892; Gaz. vol. 148; p. 1167.
- Howell, S. W., Brookville, Ind. Means for connecting flues to boiler-sheets. No. 911,397; Feb. 2; Sp. p. 730; Gaz. vol. 139; p. 126.
- Hower, H. G., W. D. Mull, and A. C. Cooper, Clinton, Ill. Vending apparatus. No. 916,557; Mar. 30; Sp. p. 5912; Gaz. vol. 140; p. 1060.
- Hower, M. O. (See Kintz, E. S., assignor.)
- Howarter, D. (See Kulp, C. L., assignor.)
- Howes, C. M., Washington, D. C. Trunk. No. 930,757; Aug. 10; Sp. p. 2332; Gaz. vol. 145; p. 404.
- Howes, S. H. (See McLaughlin, E. F., assignor.)
- Howland, A. T., Chicago, Ill. Curtain-rod. No. 926,945; July 6; Sp. p. 495; Gaz. vol. 144; p. 81.
- Howland, F. D. (See Dulin, C. E., assignor.)
- Howland, H. F., Cincinnati, Ohio. Wrench. No. 918,450; Apr. 13; Sp. p. 3015; Gaz. vol. 141; p. 530.
- Howland, T. C., Loch Arbor, N. J. Square. No. 927,972; July 13; Sp. p. 2649; Gaz. vol. 144; p. 450.
- Howland, T. C., Long Branch, N. J. Square. No. 943,351; Dec. 14; Sp. p. 2843; Gaz. vol. 149; p. 478.
- Howland, W. L., Cedar Rapids, Iowa. Box. No. 929,438; July 27; Sp. p. 5671; Gaz. vol. 144; p. 996.
- Howland, W. L., Cedar Rapids, Iowa. Knockdown box. No. 939,026; Nov. 2; Sp. p. 1243; Gaz. vol. 148; p. 199.
- Howler Manufacturing Co. (See Cochran, W. E., assignor.)
- Howson, H., assignor to J. G. Brill Company, Philadelphia, Pa. Passenger-car. No. 911,987; Feb. 9; Sp. p. 1968; Gaz. vol. 139; p. 345.
- Howson, H., assignor to J. G. Brill Company, Philadelphia, Pa. Passenger-car. No. 917,607; Apr. 6; Sp. p. 1256; Gaz. vol. 141; p. 222.
- Howson, H., assignor to J. G. Brill Company, Philadelphia, Pa. Passenger-car. No. 920,062; Apr. 27; Sp. p. 6639; Gaz. vol. 141; p. 1129.
- Howson, H., assignor to J. G. Brill Company, Philadelphia, Pa. Passenger-car. No. 922,430; May 18; Sp. p. 4790; Gaz. vol. 142; p. 829.
- Hoxie, G. H., Chicago, Ill. Projectile. No. 911,591; Feb. 9; Sp. p. 1105; Gaz. vol. 139; p. 215.
- Hoxie, V., Adrian, Mich. Staple forming and discharging mechanism. No. 942,904; Dec. 14; Sp. p. 1856; Gaz. vol. 149; p. 326.
- Hoxie, V., Adrian, Mich. Staple forming and discharging mechanism. No. 942,905; Dec. 14; Sp. p. 1859; Gaz. vol. 149; p. 327.
- Hoxie, V., Adrian, Mich. Staple forming and discharging mechanism. No. 942,906; Dec. 14; Sp. p. 1861; Gaz. vol. 149; p. 327.
- Hoxie, V., Adrian, Mich. Automatic stop mechanism. No. 943,411; Dec. 14; Sp. p. 2954; Gaz. vol. 149; p. 498.
- Hoxie, V., Adrian, Mich. Wire-fence loom. No. 943,412; Dec. 14; Sp. p. 2956; Gaz. vol. 149; p. 498.
- Hoxie, V., Adrian, Mich. Barbed wire. No. 943,413; Dec. 14; Sp. p. 2958; Gaz. vol. 149; p. 499.
- Hoy, E., Memphis, Tenn. Excavator. No. 923,528; June 1; Sp. p. 921; Gaz. vol. 143; p. 142.
- Hoy, P. R., assignor to McIntosh Stereopticon Company, Chicago, Ill. Stereopticon-slide carrier. No. 941,712; Nov. 30; Sp. p. 7190; Gaz. vol. 148; p. 1212.
- Hoy, S. D., Sioux City, Iowa. Machine for dressing floors. No. 942,830; Dec. 7; Sp. p. 1651; Gaz. vol. 149; p. 269.
- Hoy, W. J., St. Paul, Minn. Pile-driver. No. 912,962; Feb. 16; Sp. p. 4005; Gaz. vol. 139; p. 703.
- Hoya, F. A., assignor to Modern Specialty Company, Milwaukee, Wis. Hydrocarbon sad-iron. No. 937,070; Oct. 19; Sp. p. 3052; Gaz. vol. 147; p. 536.
- Hoyer, A. W., Minneapolis, Minn., assignor to one-half to P. J. Hoyer, Centerville, S. D. Stovepipe-locking device. No. 913,822; Mar. 2; Sp. p. 296; Gaz. vol. 140; p. 51.
- Hoyer, P. J. (See Hoyer, A. W., assignor.)
- Hoyland, F. J., Jr. (See Fisher and Hoyland.)
- Hoyle, W. H., and T. Barker, Bolton, England. Doubling and winding machine. No. 912,847; Feb. 16; Sp. p. 3795; Gaz. vol. 139; p. 668.
- Hoyleman, H. Z., Carlie, Wyo. Water-elevator. No. 924,071; June 8; Sp. p. 2108; Gaz. vol. 143; p. 351.
- Hoyt, A. H., Penacook, N. H. Electric measuring instrument. No. 940,318; Nov. 16; Sp. p. 4157; Gaz. vol. 148; p. 701.
- Hoyt, A. H., Penacook, N. H. Electric measuring instrument. No. 940,319; Nov. 16; Sp. p. 4158; Gaz. vol. 148; p. 702.
- Hoyt, C. B. (See Blair and Hoyt.)
- Hoyt, C. H. (See Wyckoff, C. V., assignor.)
- Hoyt, D., Newark, N. J. Attaching device. No. 933,757; Sept. 14; Sp. p. 1634; Gaz. vol. 146; p. 269.
- Hoyt, D., assignor to one-half to National Lock Washer Company, Newark, N. J. Window-shade fixture. No. 928,864; July 20; Sp. p. 4469; Gaz. vol. 144; p. 779.
- Hoyt, D., assignor to one-half to National Lock Washer Company, Newark, N. J. Window-shade fixture. No. 928,865; July 20; Sp. p. 4472; Gaz. vol. 144; p. 779.
- Hoyt, E. F., New York, N. Y. Optical-illusion apparatus. No. 942,560; Dec. 7; Sp. p. 1110; Gaz. vol. 149; p. 180.
- Hoyt, E. R. (See Allen, G. F., assignor.)
- Hoyt, G. P. B., New York, N. Y. Spark-plug. No. 916,871; Mar. 30; Sp. p. 6478; Gaz. vol. 140; p. 1157.
- Hoyt, R., New York, N. Y. Measuring apparatus. No. 928,658; July 20; Sp. p. 4070; Gaz. vol. 144; p. 709.
- Hoyt, W. H., assignor to J. A. Folger & Co., San Francisco, Cal. Containing-can. No. 941,781; Nov. 30; Sp. p. 7334; Gaz. vol. 148; p. 1236.
- Hozior, C. R., Richmond, Va. Guard for trowels. No. 926,567; June 29; Sp. p. 7212; Gaz. vol. 143; p. 1275.
- Hren, J., Brooklyn, N. Y. Automatic paper-feeder. No. 939,260; Nov. 9; Sp. p. 1753; Gaz. vol. 148; p. 305.
- Hruby, A., Pozega Slavonia, assignor to V. Pramberger, Agram, Austria-Hungary. Fire-extinguishing syringe. No. 936,320; Oct. 12; Sp. p. 1481; Gaz. vol. 147; p. 256.
- Hruby, T. J. (See Kadiera, J., assignor.)
- Hubbard, E. B., and W. G. Adams, Roanoke, Va. Mine-car-dumping apparatus. No. 909,303; Jan. 12; Sp. p. 1778; Gaz. vol. 138; p. 319.
- Hubbard, A. S. (See Chamberlain, Pratt, and Hubbard.)
- Hubbard, A. S., Belleville, N. J., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 915,768; Mar. 23; Sp. p. 4380; Gaz. vol. 140; p. 778.
- Hubbard, A. S., Belleville, N. J., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 938,865; Nov. 2; Sp. p. 907; Gaz. vol. 148; p. 142.
- Hubbard, C. (See Whiteway and Hubbard.)
- Hubbard, C. M. (See Robinson and Hubbard.)
- Hubbard, C. M., assignor to one-half to R. J. Nelson, Kamela, Oreg. Pile-protector. No. 934,176; Sept. 14; Sp. p. 2464; Gaz. vol. 146; p. 406.
- Hubbard, E., Chicago, Ill. Electromagnetic governor for internal-combustion engines. No. 927,541; July 13; Sp. p. 1721; Gaz. vol. 144; p. 307.
- Hubbard, F. B., Middlefield, Ohio. Split pulley. No. 925,701; June 22; Sp. p. 5443; Gaz. vol. 143; p. 953.
- Hubbard, F. B., Middlefield, Ohio. Piston for hot-air engines. No. 942,261; Dec. 7; Sp. p. 498; Gaz. vol. 149; p. 77.
- Hubbard, F. E., *et al.* (See Jopson, G. W., assignor.)
- Hubbard, G. E. (See Offutt and Hubbard.)
- Hubbard, G. M., assignor to W. & E. T. Fitch Co., New Haven, Conn. Currycomb. No. 925,637; June 22; Sp. p. 5313; Gaz. vol. 143; p. 934.
- Hubbard, G. M., assignor to W. & E. T. Fitch Co., New Haven, Conn. Snap-hook. No. 933,251; Sept. 7; Sp. p. 511; Gaz. vol. 146; p. 78.
- Hubbard, H. E., *et al.* (See Jopson, G. W., assignor.)
- Hubbard, H. L. (See Grieve, J., assignor.)
- Hubbard, M. G., Chatham, N. J., assignor, by mesne assignments, to Monarch Ventilator Company, New York, N. Y. Ventilator. No. 929,766; Aug. 3; Sp. p. 283; Gaz. vol. 145; p. 49.
- Hubbard, M. G., Chatham, N. J., assignor, by mesne assignments, to Monarch Ventilator Company, New York, N. Y. System of ventilation. No. 929,767; Aug. 3; Sp. p. 286; Gaz. vol. 145; p. 49.
- Hubbard, R. W., Ashtabula, Ohio. Coat and hat hook. No. 921,703; May 18; Sp. p. 3320; Gaz. vol. 142; p. 591.
- Hubbard, R. W., Ashtabula, Ohio. Bracket. No. 921,704; May 18; Sp. p. 3322; Gaz. vol. 142; p. 591.
- Hubbard, R. W., Ashtabula, Ohio. Bolt-case. No. 939,694; Nov. 9; Sp. p. 2755; Gaz. vol. 148; p. 455.
- Hubbard, R. W., Ashtabula, Ohio. Door-check. No. 941,782; Nov. 30; Sp. p. 7335; Gaz. vol. 148; p. 1236.
- Hubbard, W. B., Chicago, Ill. Method of and apparatus for returning flue-dust to blast-furnaces. No. 943,599; Dec. 14; Sp. p. 3338; Gaz. vol. 149; p. 563.
- Hubbard, W. E., Dennis, Tex. Circuit-closer. No. 912,848; Feb. 16; Sp. p. 3797; Gaz. vol. 139; p. 668.
- Hubbell, C. H., assignor to Sterling Co., Derby, Conn. Piano-case. No. 944,036; Dec. 21; Sp. p. 4312; Gaz. vol. 149; p. 743.
- Hubbell, E., St. Paul, Minn. Tongue-depressor. No. 914,415; Mar. 9; Sp. p. 1621; Gaz. vol. 140; p. 276.
- Hubbell, H., Bridgeport, Conn. Key-socket switch. No. 921,839; May 18; Sp. p. 3613; Gaz. vol. 142; p. 637.
- Hubbell, H., Bridgeport, Conn. Separable attachment-plug. No. 923,179; June 1; Sp. p. 128; Gaz. vol. 143; p. 21.
- Hubbell, H., Bridgeport, Conn. Keyless socket. No. 943,076; Dec. 14; Sp. p. 2278; Gaz. vol. 149; p. 386.
- Hubbell, H., Bridgeport, Conn. Detachable chain-guide for pull-sockets. No. 943,077; Dec. 14; Sp. p. 2279; Gaz. vol. 149; p. 386.
- Hubbell, H., Bridgeport, Conn. Means for locking electric sockets to fixtures. No. 943,078; Dec. 14; Sp. p. 2280; Gaz. vol. 149; p. 387.
- Hubbell, H., Bridgeport, Conn. Separable attachment-plug. No. 943,681; Dec. 21; Sp. p. 3567; Gaz. vol. 149; p. 621.
- Hubbell, H. C., Loveland, Ohio. Service-box. No. 936,536; Oct. 12; Sp. p. 1982; Gaz. vol. 147; p. 327.
- Hubbell, L. D., assignor to Pope Manufacturing Company, Hartford, Conn. Timing gear mechanism for explosive-engines. No. 921,705; May 18; Sp. p. 3323; Gaz. vol. 142; p. 591.
- Hubbell, W., and C. L. Hilton, Wilton, N. D. Gang-plow. No. 916,872; Mar. 30; Sp. p. 6480; Gaz. vol. 140; p. 1157.
- Hubbell, W. E., and W. Morris, Alton, Ill. Leer-charging apparatus. No. 924,356; June 8; Sp. p. 2746; Gaz. vol. 143; p. 448.

*Alphabetical list of patentees—Continued.*

- Hubener, H. G., East Orange, and F. Mueller, Irvington, N. J. Pencil-sharpening device. No. 924,662; June 15; Sp. p. 3370; Gaz. vol. 143; p. 581.
- Huber, A. L., assignor of two-thirds to F. Bartlett and T. B. Koons, Muncie, Ind. Switch-operating device. No. 911,988; Feb. 9; Sp. p. 1972; Gaz. vol. 139; p. 346.
- Huber Account Register Company. (See Huber, E. H., assignor.)
- Huber Automatic Magneto Signaling Company. (See Huber, G. A., assignor.)
- Huber, C., Berlin, Germany. Apparatus for working metal. No. 926,985; July 6; Sp. p. 572; Gaz. vol. 144; p. 94.
- Huber, C. F., *et al.* (See Beltz, W. H., assignor.)
- Huber, E. H., assignor to Huber Account Register Company, Buffalo, N. Y. File or holder for sales-slips, &c. No. 937,071; Oct. 19; Sp. p. 3054; Gaz. vol. 147; p. 537.
- Huber, G. A., New York, N. Y., assignor of one-third to A. Moser, Hoboken, N. J., and one-third to H. Wacker, New York, N. Y. Door-lock. No. 924,464; June 8; Sp. p. 2946; Gaz. vol. 143; p. 482.
- Huber, G. A., assignor to Huber Automatic Magneto Signaling Company, New York, N. Y. Electric generator. No. 942,325; Dec. 7; Sp. p. 631; Gaz. vol. 149; p. 101.
- Huber-Hodgman Printing Press Company. (See Hodgman and Hall, assignors.)
- Huber, J. L., assignor to Kunheim u. Co., Niederschöneweide, near Berlin, Germany. Making thorium sulfid. No. 941,071; Nov. 23; Sp. p. 5799; Gaz. vol. 148; p. 978.
- Huber, J. P., St. Louis, Mo. Undertaker's lifting-strap. No. 941,072; Nov. 23; Sp. p. 5800; Gaz. vol. 148; p. 978.
- Huber Manufacturing Company. (See Brackett and Garver, assignors.)
- Huber Manufacturing Company. (See Garver, F., assignor.)
- Huber, R., North Plainfield, assignor of one-half to R. Moldenke, Watchung, N. J. Shock-absorber. No. 908,993; Jan. 5; Sp. p. 1160; Gaz. vol. 138; p. 184.
- Huberlin, J., New York, N. Y. Combined arm-rest and window-guard. No. 929,439; July 27; Sp. p. 5673; Gaz. vol. 144; p. 996.
- Hubers, A. W., Baltimore, Md. Controlling mechanism for elevator-cars. No. 918,051; Apr. 13; Sp. p. 2220; Gaz. vol. 141; p. 399.
- Hubert, C. (See Coleman, C. J., assignor.)
- Hubert, C., New York, N. Y. Closure for vessels. (Reissue.) No. 12,974; June 15; Sp. p. 4922; Gaz. vol. 143; p. 840.
- Hubert, E., Budapest, Austria-Hungary. Vaporizer for liquid combustibles. No. 910,685; Jan. 26; Sp. p. 4616; Gaz. vol. 138; p. 840.
- Hubert, E., Budapest, Austria-Hungary. Machine for straining, mashing, grating, and chopping. No. 938,766; Nov. 2; Sp. p. 675; Gaz. vol. 148; p. 108.
- Hubert, H. A., Sacramento, Cal. Ventilated shoe. No. 917,297; Apr. 6; Sp. p. 702; Gaz. vol. 141; p. 119.
- Hubert, K., Seattle, Wash. Stamping apparatus. No. 935,509; Sept. 28; Sp. p. 5103; Gaz. vol. 146; p. 897.
- Hubert, L. A., Troyes, France. Gang-plov. No. 939,132; Nov. 2; Sp. p. 1450; Gaz. vol. 148; p. 236.
- Hubert, L. E., Lowell, Mass. Chair and stool. No. 923,267; June 1; Sp. p. 323; Gaz. vol. 143; p. 51.
- Hubert, P. G., Los Angeles, Cal. Folding bed. No. 915,964; Mar. 23; Sp. p. 4736; Gaz. vol. 140; p. 840.
- Hubert, P. G., Los Angeles, Cal. Fireless cooker. No. 920,329; May 4; Sp. p. 488; Gaz. vol. 142; p. 77.
- Hubert, P. G., Los Angeles, Cal. Cooker. No. 920,330; May 4; Sp. p. 489; Gaz. vol. 142; p. 77.
- Hubert, T., assignor to C. F. Splittorf, New York, N. Y. Electric ignition device. No. 926,330; June 29; Sp. p. 6798; Gaz. vol. 143; p. 1196.
- Hubert, T., assignor to C. F. Splittorf, New York, N. Y. Electrical ignition apparatus. No. 926,654; June 29; Sp. p. 7392; Gaz. vol. 143; p. 1304.
- Hubert, T., assignor to C. F. Splittorf, New York, N. Y. Electric ignition device. No. 926,698; June 29; Sp. p. 7478; Gaz. vol. 143; p. 1318.
- Hublinger, N., Barberton, Ohio. Outlet-bracket for electric fixtures. No. 911,989; Feb. 9; Sp. p. 1973; Gaz. vol. 139; p. 346.
- Hubmann, J., Tacoma, assignor of one-third to E. Dean and one-sixth to C. F. Bailey, Seattle, Wash. Water-motor. No. 939,506; Nov. 9; Sp. p. 2342; Gaz. vol. 148; p. 389.
- Hübner, J., Cheadle Hulme, England. Producing designs or ornamental and color effects on fabrics. No. 917,298; Apr. 6; Sp. p. 703; Gaz. vol. 141; p. 119.
- Hübner, R., New York, N. Y. Metallurgical furnace. No. 934,532; Sept. 21; Sp. p. 3138; Gaz. vol. 146; p. 547.
- Hübscher, H., assignor of one-half to H. C. Nielsen, New York, N. Y. Photographic apparatus. No. 924,465; June 8; Sp. p. 2948; Gaz. vol. 143; p. 482.
- Hübscher, T., Weehawken Heights, N. J. Vehicle-wheel. No. 939,695; Nov. 9; Sp. p. 2756; Gaz. vol. 148; p. 455.
- Huch, A., Brunswick, Germany. Preserving fruit or vegetables. No. 909,600; Jan. 12; Sp. p. 2353; Gaz. vol. 138; p. 418.
- Huck, A. W., *et al.* (See Huck, W., assignor.)
- Huck, W., Cauthron, Ark., assignor of one-third to A. W. Huck and one-third to C. McDonald, Kansas City, Mo. Lasting-pincers. No. 941,254; Nov. 23; Sp. p. 6193; Gaz. vol. 148; p. 1039.
- Hudson, H. J. (See Landells and Hudson.)
- Hudgen, O. H., Los Angeles, Cal. Sanitary shield for telephones. No. 910,383; Jan. 19; Sp. p. 3988; Gaz. vol. 138; p. 716.
- Hudler, J. E., Crumpler, N. C. Car-coupling. No. 943,079; Dec. 14; Sp. p. 2282; Gaz. vol. 149; p. 387.
- Hudnall, C. F., Richmond, Va. Cylindrical trunk. No. 933,758; Sept. 14; Sp. p. 1635; Gaz. vol. 146; p. 269.
- Hudnut, B. G. (See Henry, G. E., assignor.)
- Hudson, A., Spokane, Wash. Combined shade and curtain-pole support. No. 930,380; Aug. 10; Sp. p. 1533; Gaz. vol. 145; p. 278.
- Hudson, A. M., New York, N. Y. Indicator for motor-carriages. No. 910,287; Jan. 19; Sp. p. 3796; Gaz. vol. 138; p. 684.
- Hudson, B. F., Jacksonville, Ore. Match-box. No. 937,509; Oct. 26; Sp. p. 4609; Gaz. vol. 147; p. 798.
- Hudson, D. J., assignor of one-fourth to S. G. Hudson and one-fourth to E. Rifle, Muncie, Ind. Collapsible box. No. 933,454; Sept. 7; Sp. p. 955; Gaz. vol. 146; p. 144.
- Hudson, E. (See Hudson, T. E. and E.)
- Hudson, F., Dolgeville, Cal. Dump-car. No. 913,893; Mar. 2; Sp. p. 469; Gaz. vol. 140; p. 77.
- Hudson, F. R., San Mateo, Cal. Artificial building-block. No. 921,114; May 11; Sp. p. 2080; Gaz. vol. 142; p. 367.
- Hudson, G. B., Decatur, Mich. Grinder for cutter-bars. No. 937,939; Oct. 26; Sp. p. 4881; Gaz. vol. 147; p. 842.
- Hudson, H. D., *et al.* (See Brandt, H. E., assignor.)
- Hudson, H. D., *et al.* (See Brandt, P. and H. E., assignors.)
- Hudson, M. A., assignor to J. E. Lonergan Company, Philadelphia, Pa. Steam safety-valve. No. 944,330; Dec. 28; Sp. p. 4923; Gaz. vol. 149; p. 868.
- Hudson, P. A., New York, N. Y. Belt-fastener. No. 913,386; Feb. 23; Sp. p. 4871; Gaz. vol. 139; p. 872.
- Hudson, R. H., Macdonald, W. Va. Mail-bag catching and delivering apparatus. No. 930,964; Aug. 10; Sp. p. 2775; Gaz. vol. 145; p. 471.
- Hudson, S. G., *et al.* (See Hudson, D. J., assignor.)
- Hudson Stick Candy Machine Company. (See Hudson and Camp, assignors.)
- Hudson, T. E. and E., Philadelphia, Pa. Transfer-hanger. No. 942,326; Dec. 7; Sp. p. 633; Gaz. vol. 149; p. 101.
- Hudson, W. H., Montgomery, Ala. Trepchine. No. 930,477; Aug. 10; Sp. p. 1715; Gaz. vol. 145; p. 310.
- Hudson, W. T., Atlanta, Ga. Candy-making machine. No. 910,198; Jan. 19; Sp. p. 3569; Gaz. vol. 138; p. 649.
- Hudson, W. T., and P. R. Camp, assignors to Hudson Stick Candy Machine Company, Atlanta, Ga. Candy-making machine. No. 933,987; Sept. 14; Sp. p. 2079; Gaz. vol. 146; p. 343.
- Hudspeth, J. G., Huntington Park, Cal. Window-screen construction. No. 921,405; May 11; Sp. p. 2704; Gaz. vol. 142; p. 464.
- Hueber, E. P. (See Swanger and Hueber.)
- Huebner, J., Chicago, Ill., assignor to Barrel Amusement Co. Amusement device. No. 914,723; Mar. 9; Sp. p. 2252; Gaz. vol. 140; p. 378.
- Hueg, H., Long Island City, N. Y. Baker's oven. No. 917,299; Apr. 6; Sp. p. 704; Gaz. vol. 141; p. 119.
- Huehn, J. H., Beloit, Iowa, assignor to C. Keener, Urbana, Ohio. Wagon-brake. No. 917,945; Apr. 13; Sp. p. 1985; Gaz. vol. 141; p. 361.
- Huenesdonk, W. A., Jolon, Cal. Dredger and excavator. No. 921,252; May 11; Sp. p. 2363; Gaz. vol. 142; p. 414.
- Huenefeld, E. H., Cincinnati, Ohio. Oven-door. No. 943,546; Dec. 14; Sp. p. 3241; Gaz. vol. 149; p. 546.
- Huenefeld, E. H., Cincinnati, Ohio. Oven-door. No. 943,547; Dec. 14; Sp. p. 3243; Gaz. vol. 149; p. 546.
- Huenefeld, E. H., Cincinnati, Ohio. Oven-door. No. 943,548; Dec. 14; Sp. p. 3244; Gaz. vol. 149; p. 546.
- Huenefeld, E. H., Cincinnati, Ohio. Oven-door. No. 943,549; Dec. 14; Sp. p. 3245; Gaz. vol. 149; p. 547.
- Huestis, T. B., Bristol, R. I. Pneumatic tire valve. No. 917,071; Apr. 6; Sp. p. 216; Gaz. vol. 141; p. 40.
- Huestis, T. B., Bristol, R. I. Combination-tool. No. 938,583; Nov. 2; Sp. p. 330; Gaz. vol. 148; p. 43.
- Huey, L., Wadesville, Ind. Coupling-pin. No. 926,568; June 29; Sp. p. 7213; Gaz. vol. 143; p. 1275.
- Huff, A. J. (See Schultz, H. O., assignor.)
- Huff Electrostatic Separator Company. (See Wentworth, H. A., assignor.)
- Huff, G. T., Street, Md. Tellurian. No. 921,706; May 18; Sp. p. 3325; Gaz. vol. 142; p. 592.
- Huff, J. A. (See Steere, W. J., assignor.)
- Huff, J. R., Indian Springs, Ind. Envelop. No. 913,387; Feb. 23; Sp. p. 4873; Gaz. vol. 139; p. 872.
- Huff, R., assignor to Packard Motor Car Company, Detroit, Mich. Safety-strap and bracket for motor-vehicles. No. 913,139; Feb. 23; Sp. p. 4366; Gaz. vol. 139; p. 789.
- Huff, R., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 915,769; Mar. 23; Sp. p. 4388; Gaz. vol. 140; p. 778.
- Huff, R., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 920,142; May 4; Sp. p. 101; Gaz. vol. 142; p. 15.



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- Huffman, C. Z., Luray, Va. Vehicle-brake. No. 917,072; Apr. 6; Sp. p. 217; Gaz. vol. 141; p. 41.
- Huffman, F. P., near Lebanon, Ohio. Chicken-brooder. No. 911,990; Feb. 9; Sp. p. 1975; Gaz. vol. 139; p. 346.
- Huffman, H. G., Youngstown, Ohio. Reel-clamp. No. 930,181; Aug. 3; Sp. p. 1175; Gaz. vol. 145; p. 191.
- Huffman, J. G., Pana, Ill. Display-rack. No. 919,725; Apr. 27; Sp. p. 5930; Gaz. vol. 141; p. 1017.
- Huffman, J. O., Cleveland, Ohio. Rotary sewing-machine shuttle and accessories. No. 931,610; Aug. 17; Sp. p. 4159; Gaz. vol. 145; p. 714.
- Huffman, L., Toronto, Ontario, Canada. Impression apparatus. No. 938,381; Oct. 26; Sp. p. 5848; Gaz. vol. 147; p. 993.
- Huffit, J. L., deceased; R. Huffit, administrator, assignor to C. C. Harrell, Port Arthur, Tex. Combination chair and ironing-board. No. 937,701; Oct. 19; Sp. p. 4376; Gaz. vol. 147; p. 744.
- Huffit, R., administrator. (See Huffit, J. L.)
- Hufman, J. C., Winona, Minn. Toaster. No. 935,510; Sept. 28; Sp. p. 5105; Gaz. vol. 146; p. 898.
- Hufschmidt, M. S., San Francisco, and C. F. Wagner, Oakland, Cal.; said Wagner assignor to said Hufschmidt. Mouthpiece for telephone-transmitters. No. 924,072; June 8; Sp. p. 2110; Gaz. vol. 143; p. 352.
- Huggins, J. A. (See Huggins, R. T., assignor.)
- Huggins, M. (See Miller, Huggins, and Jenkins.)
- Huggins, M., and E. L. Graham, Columbus, Ohio. Cheese-cutter. No. 917,073; Apr. 6; Sp. p. 219; Gaz. vol. 141; p. 41.
- Huggins, R. T., Venters, S. C., assignor of one-half to J. A. Huggins, Red Springs, N. C. Plow. No. 922,905; May 25; Sp. p. 5801; Gaz. vol. 142; p. 1012.
- Huggins, T. H., Zolfo, Fla. Animal-trap. No. 926,419; June 29; Sp. p. 6957; Gaz. vol. 143; p. 1225.
- Huggins, U. S. (See Miller and Huggins.)
- Hughes, A., Houston, Tex. Barrel-shelf. No. 920,747; May 4; Sp. p. 1323; Gaz. vol. 142; p. 214.
- Hughes, C. C., Philadelphia, Pa. Arc-lamp. No. 920,331; May 4; Sp. p. 491; Gaz. vol. 142; p. 77.
- Hughes, C. H., Ogden, Utah. Triple-valve governor. No. 917,946; Apr. 13; Sp. p. 1987; Gaz. vol. 141; p. 361.
- Hughes, C. V., and J. M. Robinson, Alameda, Cal., assignors to Ventilating Window Shade Company. Combination shade and screen for windows. No. 938,147; Oct. 26; Sp. p. 5339; Gaz. vol. 147; p. 911.
- Hughes, C. V., and J. M. Robinson, Alameda, Cal., assignors to Ventilating Window Shade Company. Window shade and fixtures. No. 938,148; Oct. 26; Sp. p. 5338; Gaz. vol. 147; p. 912.
- Hughes, D., Johnson City, Tenn. Washboard. No. 924,466; June 8; Sp. p. 2950; Gaz. vol. 143; p. 483.
- Hughes, D., Johnson City, Tenn. Barrel. No. 926,569; June 29; Sp. p. 7214; Gaz. vol. 143; p. 1276.
- Hughes, F. B., Indianapolis, Ind. Opto-refractor meter. No. 929,134; July 27; Sp. p. 5039; Gaz. vol. 144; p. 896.
- Hughes, F. J., assignor to C. A. Class, Watford, Ontario, Canada. Dust-proof sleeve for stem-winding watches. No. 935,028; Sept. 28; Sp. p. 4128; Gaz. vol. 146; p. 740.
- Hughes, G. M., Albion, Mich. Door-hinge. No. 932,129; Aug. 24; Sp. p. 5326; Gaz. vol. 145; p. 908.
- Hughes, G. M., assignor to T. C. Prouty Company, Limited, Albion, Mich. Spring-hinge. No. 916,447; Mar. 30; Sp. p. 5663; Gaz. vol. 140; p. 1024.
- Hughes, H. (See Nickerson and Hughes.)
- Hughes, H. A., Philadelphia, Pa. Treating glucose. No. 916,558; Mar. 30; Sp. p. 5913; Gaz. vol. 140; p. 1061.
- Hughes, H. H., Springfield, Mo. Revolving furnace for volatilizing zinc ores. No. 920,143; May 4; Sp. p. 103; Gaz. vol. 142; p. 15.
- Hughes, H. H., Springfield, Mo. Revolving furnace for volatilizing ores. No. 922,906; May 25; Sp. p. 5803; Gaz. vol. 142; p. 1012.
- Hughes, H. L., Fayette, Mo. Hand weeding and transplanting implement. No. 933,304; Sept. 7; Sp. p. 616; Gaz. vol. 146; p. 95.
- Hughes, H. M., Eldon, Iowa. Harrow-tooth fastening. No. 914,276; Mar. 2; Sp. p. 1328; Gaz. vol. 140; p. 205.
- Hughes, H. O., Slaton, Tex. Device for assisting in the shooting of marbles. No. 934,812; Sept. 21; Sp. p. 3691; Gaz. vol. 146; p. 641.
- Hughes, H. R., Houston, Tex. Drill. No. 930,758; Aug. 10; Sp. p. 2333; Gaz. vol. 145; p. 405.
- Hughes, H. R., Houston, Tex. Drill. No. 930,759; Aug. 10; Sp. p. 2336; Gaz. vol. 145; p. 405.
- Hughes, J., Jackson, Mich. Air-brake system. No. 918,675; Apr. 20; Sp. p. 3559; Gaz. vol. 141; p. 634.
- Hughes, J. F. (See Owens, T. G., assignor.)
- Hughes, J. W., Homestead, Pa. Horse-detacher. No. 917,766; Apr. 13; Sp. p. 1618; Gaz. vol. 141; p. 301.
- Hughes, J. W., Camden, N. J. Body-rest for musical instruments. No. 920,144; May 4; Sp. p. 104; Gaz. vol. 142; p. 14.
- Hughes, L., *et al.* (See Patterson, D. W., assignor.)
- Hughes, L. S., assignor to Picher Lead Company, Joplin, Mo. Manufacturing sublimed white lead. No. 920,332; May 4; Sp. p. 493; Gaz. vol. 142; p. 78.
- Hughes, L. S., assignor to Picher Lead Company, Joplin, Mo. Furnace. No. 920,333; May 4; Sp. p. 497; Gaz. vol. 142; p. 78.
- Hughes, L. S., assignor to Picher Lead Company, Joplin, Mo. Metallurgical furnace. No. 920,334; May 4; Sp. p. 498; Gaz. vol. 142; p. 79.
- Hughes, L. S., assignor to Picher Lead Company, Joplin, Mo. Manufacturing litharge. No. 920,335; May 4; Sp. p. 501; Gaz. vol. 142; p. 79.
- Hughes, L. S., assignor to Picher Lead Company, Joplin, Mo. Manufacturing zinc oxid. No. 920,336; May 4; Sp. p. 503; Gaz. vol. 142; p. 79.
- Hughes, L. S., assignor to Picher Lead Company, Joplin, Mo. Making zinc oxid. No. 920,337; May 4; Sp. p. 504; Gaz. vol. 142; p. 80.
- Hughes, P. F. (See Riley and Hughes.)
- Hughes, R. R., Jr. (See McLaughlin and Hughes.)
- Hughes, S. (See Kristufek, C., assignor.)
- Hughes, T., Palms, Cal. Ratchet casing-tongs or pipe-wrench. No. 917,440; Apr. 6; Sp. p. 958; Gaz. vol. 141; p. 166.
- Hughes, T., East Somerville, assignor, by mesne assignments, of one-half to C. J. Walsh, Cambridge, Mass. Adjustable arch-supporter. No. 940,022; Nov. 16; Sp. p. 3458; Gaz. vol. 148; p. 597.
- Hughes, W. B., Dallas, Tex. Fence-post. No. 943,550; Dec. 14; Sp. p. 3246; Gaz. vol. 149; p. 547.
- Hughes, W. G., Pittsburg, Pa. Reinforcement-bar. No. 943,878; Dec. 21; Sp. p. 3963; Gaz. vol. 149; p. 683.
- Hughes, W. G., assignor to Pittsburg Appliance Company, Pittsburg, Pa. Fluid-pressure controller. No. 917,300; Apr. 6; Sp. p. 706; Gaz. vol. 141; p. 120.
- Hughes, W. G., assignor to S. K. Elliott and H. G. Millier, Los Angeles, Cal. Nozzle. No. 920,145; May 4; Sp. p. 105; Gaz. vol. 142; p. 14.
- Hughes, W. G., Norwalk, assignor to S. K. Elliott and H. G. Millier, Los Angeles, Cal. Sprinkler-nozzle. No. 943,780; Dec. 21; Sp. p. 3765; Gaz. vol. 149; p. 655.
- Hughes, J. S., Dunsmuir, Cal. Calipers. No. 924,073; June 8; Sp. p. 2112; Gaz. vol. 143; p. 352.
- Huguenin, A., Zurich, Switzerland. Quantity-regulating device for rotary fluid-compressors. No. 916,156; Mar. 23; Sp. p. 5096; Gaz. vol. 140; p. 902.
- Huguenin, P. A., Paris, France, assignor to General Electric Company. Vapor electric device. No. 919,584; Apr. 27; Sp. p. 5645; Gaz. vol. 141; p. 970.
- Huhn, G., Berlin, Germany. Packing for piston-rods and the like. No. 943,019; Dec. 14; Sp. p. 2137; Gaz. vol. 149; p. 366.
- Huhn, G., Berlin, Germany, assignor, by mesne assignments, to L. R. Gracy. Metallic packing. (Reissue.) No. 13,006; Aug. 10; Sp. p. 2926; Gaz. vol. 145; p. 492.
- Huhsman, A. W., Staunton, Ill. Septic tank. No. 934,917; Sept. 21; Sp. p. 3899; Gaz. vol. 146; p. 677.
- Hulberg, F., New York, N. Y. Combined hearse and passenger-vehicle. No. 919,868; Apr. 27; Sp. p. 6250; Gaz. vol. 141; p. 1066.
- Hulbert, E. F., Kenosha, Wis. Package-handle. No. 926,986; July 6; Sp. p. 574; Gaz. vol. 144; p. 94.
- Hulbert, E. F., assignor to National Oyster Carrier Co., Kenosha, Wis. Can-lock. No. 910,199; Jan. 19; Sp. p. 3578; Gaz. vol. 138; p. 649.
- Hulbert, W. R., *et al.* (See Doerr, C. J., assignor.)
- Hulce, V. E., Riverside, assignor to Newell Mathews Co., Los Angeles, Cal. Disk-harrow attachment. No. 931,928; Aug. 24; Sp. p. 4900; Gaz. vol. 145; p. 841.
- Hulder, J. P., New York, N. Y., assignor to Ludwig & Company. Key-holding device. No. 944,037; Dec. 21; Sp. p. 4313; Gaz. vol. 149; p. 743.
- Hulfish, D. S., Chicago, Ill., assignor, by mesne assignments, to American Telephone and Telegraph Company. Apparatus and system for measuring telephone service. No. 930,547; Aug. 10; Sp. p. 1901; Gaz. vol. 145; p. 336.
- Hulfish, D. S., assignor to McMeen & Miller, Chicago, Ill. Telephone system. No. 940,693; Nov. 23; Sp. p. 4991; Gaz. vol. 148; p. 852.
- Hulicius, J. O. (See Bukacek and Hulicius.)
- Hulings, M. H., deceased, Allegheny, Pa.; S. P. Hulings, administratrix, assignor to W. J. Hulings. Packing for rotary engines. No. 912,963; Feb. 16; Sp. p. 4006; Gaz. vol. 139; p. 703.
- Hulings, S. P., administratrix. (See Hulings, M. H.)
- Hulings, W. J. (See Hulings, M. H.)
- Hulit, J. A., assignor to J. A. Rosen, Topeka, Kans. Telegraph-key. No. 932,019; Aug. 24; Sp. p. 5097; Gaz. vol. 145; p. 871.
- Hulit, J. A., assignor, by mesne assignments, to Hulit Transmitter Company, Topeka, Kans. Telegraph sending-machine. No. 939,507; Nov. 9; Sp. p. 2343; Gaz. vol. 148; p. 389.
- Hulit Transmitter Company. (See Hulit, J. A., assignor.)
- Hull, A. B., Gasport, N. Y. Spraying-nozzle. No. 936,537; Oct. 12; Sp. p. 1984; Gaz. vol. 147; p. 327.
- Hull, C. G., Los Angeles, Cal. Gem-cutting machine. No. 943,191; Dec. 14; Sp. p. 2495; Gaz. vol. 149; p. 423.

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- Hull, H. E., assignor of one-half to C. A. Buddy, St. Joseph, Mo. Apparatus for weaving veneer strips. No. 937,608; Oct. 19; Sp. p. 4192; Gaz. vol. 147; p. 714.
- Hull, J. C., Gasport, N. Y. Spraying-nozzle. No. 915,180; Mar. 16; Sp. p. 3161; Gaz. vol. 140; p. 554.
- Hull, J. E., Rodamers, W. Va. Sack-holder. No. 939,508; Nov. 9; Sp. p. 2348; Gaz. vol. 148; p. 389.
- Hull, L. E., assignor of one-half to J. C. Adams, Chicago, Ill. Harmonic attachment for stringed musical instruments. No. 928,866; July 20; Sp. p. 4474; Gaz. vol. 144; p. 780.
- Hull, M. R., assignor to Rex Buggy Company, Connersville, Ind. Vehicle-reach. No. 937,940; Oct. 26; Sp. p. 4883; Gaz. vol. 147; p. 843.
- Hull, S. C., Spragueville, N. Y. Tag. No. 911,306; Feb. 2; Sp. p. 559; Gaz. vol. 139; p. 96.
- Hull, T., Mount Airy, assignor to C. E. Hoffman, Philadelphia, Pa. Portable window-balcony. No. 938,382; Oct. 26; Sp. p. 5853; Gaz. vol. 147; p. 993.
- Hullett, D. I., assignor of one-third to W. H. Rabold and one-third to T. R. Neill, Bowling Green, Ky. Derailing-switch. No. 925,774; June 22; Sp. p. 5637; Gaz. vol. 143; p. 978.
- Hulscher, W. T., assignor of one-half to F. J. Heyser, Battle Creek, Mich. Tie attachment. No. 914,416; Mar. 9; Sp. p. 1622; Gaz. vol. 140; p. 277.
- Hulse, B. F. (See Paterson, J. G., assignor.)
- Hulse, C. H., North Yakima, Wash. Illuminated-letter sign. No. 928,309; July 20; Sp. p. 3380; Gaz. vol. 144; p. 595.
- Hulse, C. H., North Yakima, Wash. Illuminated shaded letter. No. 928,916; July 20; Sp. p. 4583; Gaz. vol. 144; p. 798.
- Hulse, E. M., Columbus, Ohio, assignor to Tufting Machine Supply Company, Chicago, Ill. Machine for manufacturing upholstery-pads. No. 926,331; June 29; Sp. p. 6803; Gaz. vol. 143; p. 1197.
- Hulse, G. E., Jersey City, N. J., assignor to Safety Car Heating & Lighting Company. Gas-lighting apparatus. No. 942,561; Dec. 7; Sp. p. 1111; Gaz. vol. 149; p. 181.
- Hulse, J. G., and A. F. Schramm, Columbus, Ohio, assignors to Tufting Machine Supply Company, Chicago, Ill. Upholstery-goods-marking board. No. 942,908; Dec. 14; Sp. p. 1866; Gaz. vol. 149; p. 328.
- Hulse, W. H., Brooklyn, N. Y. Tabulating device for type-writers. No. 933,840; Sept. 14; Sp. p. 1797; Gaz. vol. 146; p. 296.
- Hult, C. A. and O. W., Stockholm, Sweden. Bearing for shafts rotating with great speed. No. 930,760; Aug. 10; Sp. p. 2341; Gaz. vol. 145; p. 405.
- Hult, O. W. (See Hult, C. A. and O. W.)
- Hultberg, E. A., Chicago, Ill. Metallic protector for pneumatic tires. No. 942,500; Dec. 7; Sp. p. 997; Gaz. vol. 149; p. 160.
- Hultgreen, F. F., Oakland, Cal. Window-screen. No. 912,849; Feb. 16; Sp. p. 3798; Gaz. vol. 139; p. 668.
- Human, R. B., Chickasha, Okla. Stalk-cutting attachment for vehicles. No. 928,759; July 20; Sp. p. 4268; Gaz. vol. 144; p. 743.
- Humason, G. A., Washington, D. C., assignor of one-half to J. W. Chamberlain, Shreveport, La. Harness. No. 943,020; Dec. 14; Sp. p. 2139; Gaz. vol. 149; p. 366.
- Humbert, E., South Chicago, Ill. Refining steel. No. 943,192; Dec. 14; Sp. p. 2498; Gaz. vol. 149; p. 424.
- Hume, J. T. (See Snyder and Hume.)
- Hume Manufacturing Co. (See Hume, T. J., assignor.)
- Hume, T. J., assignor to Hume Manufacturing Co., Kansas City, Kans. Laundry-marking machine. No. 908,673; Jan. 5; Sp. p. 515; Gaz. vol. 138; p. 81.
- Humes, A. R., Knoxville, Tenn. Carpenter's work-bench. No. 918,155; Apr. 13; Sp. p. 2425; Gaz. vol. 141; p. 434.
- Humes, C. T., Brandywine Hundred, Del. Horseshoe. No. 931,067; Aug. 17; Sp. p. 3050; Gaz. vol. 145; p. 534.
- Humes, H. S., assignor of one-half to Young Building and Investment Company, Denver, Colo. Combined rule and square. No. 932,281; Aug. 24; Sp. p. 5621; Gaz. vol. 145; p. 959.
- Humeston, W. H., Denver, Colo. Meat-tenderer. No. 942,448; Dec. 7; Sp. p. 867; Gaz. vol. 149; p. 141.
- Humme, F. A., Elizabeth, assignor of one-half to D. Kreimeier, Pittsburg, Pa. Metallic tie. No. 921,611; May 11; Sp. p. 3117; Gaz. vol. 142; p. 533.
- Hummel, A., New York, N. Y. Folding-table. No. 919,015; Apr. 20; Sp. p. 4274; Gaz. vol. 141; p. 748.
- Hummel, K. F., Gottleben, Switzerland. Veneering-press. No. 921,253; May 11; Sp. p. 2366; Gaz. vol. 142; p. 415.
- Hummel, T., Dallas, Tex. Electrically-operated railway-crossing gate. No. 943,352; Dec. 14; Sp. p. 2844; Gaz. vol. 149; p. 478.
- Hummer, G. P. (See Calhoun, J. C., assignor.)
- Hummer, J. H., Ashtabula Harbor, Ohio. Folding ironing-table. No. 942,643; Dec. 7; Sp. p. 1274; Gaz. vol. 149; p. 208.
- Hummer, K. S., Phillipsburg, N. J. Folding umbrella. No. 934,177; Sept. 14; Sp. p. 2465; Gaz. vol. 146; p. 406.
- Humphreville, E. (See Humphreville, F., assignor.)
- Humphreville, F., assignor to E. Humphreville, Lancaster, Pa. Shoe-polishing machine. No. 941,345; Nov. 23; Sp. p. 6372; Gaz. vol. 148; p. 1066.
- Humphrey, A. H., New York, N. Y. Gas-lamp. No. 922,907; May 25; Sp. p. 5805; Gaz. vol. 142; p. 1012.
- Humphrey, A. H., New York, N. Y. Lamp-globe. No. 940,530; Nov. 16; Sp. p. 4629; Gaz. vol. 148; p. 772.
- Humphrey, A. H., New York, N. Y., F. J. Humphrey and R. Wright, assignors to General Gas Light Company, Kalamazoo, Mich. Gas-lamp. No. 915,602; Mar. 16; Sp. p. 4007; Gaz. vol. 140; p. 692.
- Humphrey, A. H., New York, N. Y., F. J. Humphrey and R. Wright, assignors to General Gas Light Company, Kalamazoo, Mich. Gas-lamp. No. 933,177; Sept. 7; Sp. p. 299; Gaz. vol. 146; p. 50.
- Humphrey, B., Charleston, W. Va. Nut-lock. No. 924,467; June 8; Sp. p. 2952; Gaz. vol. 143; p. 483.
- Humphrey, E. H., assignor to Corry Castor Co., Corry, Pa. Furniture-caster. No. 938,866; Nov. 2; Sp. p. 910; Gaz. vol. 148; p. 143.
- Humphrey, E. H., assignor to Corry Castor Co., Corry, Pa. Caster. No. 938,867; Nov. 2; Sp. p. 912; Gaz. vol. 148; p. 143.
- Humphrey, E. H., North Clymer, N. Y., assignor of one-half to N. S. Covey, Corry, Pa. Pencil-sharpener. No. 939,133; Nov. 2; Sp. p. 1451; Gaz. vol. 148; p. 236.
- Humphrey, F. J. (See Humphrey and Wright.)
- Humphrey, H. S., Kalamazoo, Mich. Water-heater. No. 928,310; July 20; Sp. p. 3381; Gaz. vol. 144; p. 595.
- Humphrey, H. S., Kalamazoo, Mich. Water-heater. No. 928,311; July 20; Sp. p. 3391; Gaz. vol. 144; p. 596.
- Humphrey, H. S., Kalamazoo, Mich. Gas-burner. No. 942,831; Dec. 7; Sp. p. 1653; Gaz. vol. 149; p. 270.
- Humphrey, J., Boston, Mass. Making artificial teeth. No. 940,599; Nov. 16; Sp. p. 4773; Gaz. vol. 148; p. 795.
- Humphrey, J. A. (See Carpenter and Humphrey.)
- Humphrey Manufacturing Company. (See Johnston, R. M., assignor.)
- Humphrey, O. L., et al. (See Peck, L., assignor.)
- Humphrey & Sons. (See Reece, J. H., assignor.)
- Humphreys, A. E., assignor to Woods-Sherwood Company, Lowell, Mass. Kitchen utensil. No. 944,265; Dec. 28; Sp. p. 4775; Gaz. vol. 149; p. 845.
- Humphreys and Glasgow. (See Carroll, L. D., assignor.)
- Humphreys, J. W., Alva, Okla. Ditching-machine. No. 931,763; Aug. 24; Sp. p. 4541; Gaz. vol. 145; p. 788.
- Humphreys, W. H., Liverpool, England. Pneumatic spring. No. 912,376; Feb. 16; Sp. p. 2792; Gaz. vol. 139; p. 509.
- Humphries, G. E., Wellington, New Zealand. Scaffolding. (Reissue.) No. 13,036; Nov. 9; Sp. p. 3322; Gaz. vol. 148; p. 548.
- Humphries, G. E., Wellington, New Zealand. Scaffolding. (Reissue.) No. 13,037; Nov. 9; Sp. p. 3325; Gaz. vol. 148; p. 549.
- Humphries, G. P., Commerce, Tex. Adjustable stand or support for mirrors. No. 935,208; Sept. 28; Sp. p. 4494; Gaz. vol. 146; p. 799.
- Humphries, J. P., Kidderminster, England. Loom for weaving tufted pile fabrics. No. 940,531; Nov. 16; Sp. p. 4630; Gaz. vol. 148; p. 773.
- Humphry, J., Roxbury, Mass., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Belt-delivery clutch for printing-presses. No. 916,318; Mar. 23; Sp. p. 5386; Gaz. vol. 140; p. 956.
- Humphrys, C. A., Chico, Cal. Carry-iron for car-couplings. No. 925,477; June 22; Sp. p. 4993; Gaz. vol. 143; p. 881.
- Hundeby, M. L. (See Edman, J., assignor.)
- Huneryager, G., Chicago, Ill. Sign-holder. No. 922,700; May 25; Sp. p. 5365; Gaz. vol. 142; p. 946.
- Hini, A. (See Rehbock, J., assignor.)
- Hunick, F. H., Roselle, N. J., assignor to Continental Rubber Company. Extracting rubber-like gum from its vegetable sources. No. 931,120; Aug. 17; Sp. p. 3149; Gaz. vol. 145; p. 552.
- Hunick, F. H., Roselle, N. J., assignor to Continental Rubber Company. Extracting rubber-like gum from its vegetable sources. No. 931,121; Aug. 17; Sp. p. 3151; Gaz. vol. 145; p. 552.
- Hunker, A. C. (See Dimond, R. S., assignor.)
- Hunkler, B., Barnesville, Ohio. Beater. No. 933,646; Sept. 7; Sp. p. 1384; Gaz. vol. 146; p. 208.
- Hunley, G. W. (See Bingham, J., assignor.)
- Hunnell, J. A., Lowell, Mass. Electrically-operated water-heater. No. 938,237; Oct. 26; Sp. p. 5525; Gaz. vol. 147; p. 844.
- Hunsaker, A. O., Kansas City, Mo. Mold for forming burial-vaults. No. 910,064; Jan. 19; Sp. p. 3284; Gaz. vol. 138; p. 605.
- Hunsaker, A. O., Kansas City, Mo. Mold for forming burial-vaults. No. 914,417; Mar. 9; Sp. p. 1623; Gaz. vol. 140; p. 277.
- Hunsberger, D., Royersford, Pa. Wall-hydrant. No. 926,190; June 29; Sp. p. 6514; Gaz. vol. 143; p. 1152.
- Hunt, A. F., Santa Monica, Cal. Method of and means for repairing axles. No. 928,519; July 20; Sp. p. 3777; Gaz. vol. 144; p. 663.
- Hunt, A. M., Hampden, Me. Dinner-pail. No. 929,949; Aug. 3; Sp. p. 693; Gaz. vol. 145; p. 111.
- Hunt, C., New York, N. Y. Automatic releasing device for boats. No. 936,632; Oct. 12; Sp. p. 2187; Gaz. vol. 147; p. 331.



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- Hunt, C. A., Jr., Lexington, N. C. Bottle-stopper. No. 920,338; May 4; Sp. p. 506; Gaz. vol. 142; p. 80.
- Hunt, C. A., Newburgh, N. Y. Sash-fastener. No. 938,584; Nov. 2; Sp. p. 331; Gaz. vol. 148; p. 49.
- Hunt, C. R., *et al.* (See Riggs, A. W., assignor.)
- Hunt, E. C., Poughkeepsie, N. Y. Bottle-cap lifter and cigar-cutter. No. 933,988; Sept. 14; Sp. p. 2085; Gaz. vol. 146; p. 343.
- Hunt, F., Oberon, N. D. Auxiliary handle for shovels, scoops, &c. No. 933,647; Sept. 7; Sp. p. 1385; Gaz. vol. 146; p. 208.
- Hunt, F., New York, N. Y., assignor to New Jersey Foundry and Machine Company. Derrick. No. 926,191; June 29; Sp. p. 6515; Gaz. vol. 143; p. 1152.
- Hunt, F. F., New Brighton, N. Y. Green pigment and making the same. No. 932,864; Aug. 31; Sp. p. 6839; Gaz. vol. 145; p. 1174.
- Hunt, F. S., assignor to Milwaukee Dustless Brush Company, Milwaukee, Wis. Dustless brush. No. 929,670; Aug. 3; Sp. p. 51; Gaz. vol. 145; p. 11.
- Hunt, H., *et al.* (See Washington, D. E., assignor.)
- Hunt, H. C., Duquesne, Pa. Rail-fastener. No. 915,603; Mar. 16; Sp. p. 4016; Gaz. vol. 140; p. 693.
- Hunt, Helm, Ferris & Company. (See Ferris, H. J., assignor.)
- Hunt, Helm, Ferris & Company. (See Ferris, H. L., assignor.)
- Hunt, Helm, Ferris & Company. (See Ferris, H. L. and H. J., assignors.)
- Hunt, J. A., Boston, Mass. Hydrocarbon-burner. No. 942,857; Dec. 7; Sp. p. 1719; Gaz. vol. 149; p. 278.
- Hunt, J. O., Cairo, Ill. Window-sash lock. No. 916,446; Mar. 30; Sp. p. 5660; Gaz. vol. 140; p. 1024.
- Hunt, J. O., Glens Falls, N. Y. Attachment for pulp-presses. No. 927,856; July 13; Sp. p. 2408; Gaz. vol. 144; p. 412.
- Hunt, J. W., Lunsford, Ark. Medicine-cabinet. No. 924,468; June 8; Sp. p. 2953; Gaz. vol. 143; p. 483.
- Hunt, L., Garrett, Ind. Rack. No. 928,659; July 20; Sp. p. 4074; Gaz. vol. 144; p. 710.
- Hunt, L., Welch, W. Va. Lamp-chimney holder. No. 932,471; Aug. 31; Sp. p. 6013; Gaz. vol. 145; p. 1044.
- Hunt, L. J., Rhyl, England. Dynamo-electric machine. No. 926,192; June 29; Sp. p. 6518; Gaz. vol. 143; p. 1153.
- Hunt, L. J., Sandycroft, near Chester, England. Dynamo-electric machine. No. 934,405; Sept. 14; Sp. p. 2895; Gaz. vol. 146; p. 484.
- Hunt, M. E., Clio, Ala. Coconut-grater. No. 915,055; Mar. 9; Sp. p. 2865; Gaz. vol. 140; p. 486.
- Hunt, O. R., Kenosha, Wis., assignor to Vail and Hunt Company, Chicago, Ill. Wire fabric. No. 908,773; Jan. 5; Sp. p. 724; Gaz. vol. 138; p. 113.
- Hunt, O. R., assignor to Vail and Hunt Company, Chicago, Ill. Wire fabric. No. 908,774; Jan. 5; Sp. p. 725; Gaz. vol. 138; p. 113.
- Hunt, R. B., Mount Orab, Ohio. Wire fence. No. 937,072; Oct. 19; Sp. p. 3055; Gaz. vol. 147; p. 537.
- Hunt, R. D., and J. Riley, Laporte, Ind. Shuttle-check. No. 921,406; May 11; Sp. p. 2706; Gaz. vol. 142; p. 465.
- Hunt, S. R., Jr., Peabody, Kans. Adjustable bed-spring. No. 929,853; Aug. 3; Sp. p. 491; Gaz. vol. 145; p. 78.
- Hunt, T. E., Blue Island, assignor to Quaker Manufacturing Company, Chicago, Ill. Hot-air-furnace heating system. No. 926,332; June 29; Sp. p. 6804; Gaz. vol. 143; p. 1197.
- Hunt, W. F., Williamstown, Mass. Hasp-lock. No. 911,502; Feb. 2; Sp. p. 908; Gaz. vol. 139; p. 159.
- Hunt, W. F., assignor to C. W. Hunt Company, New York, N. Y. Electric locomotive. No. 932,707; Aug. 31; Sp. p. 6520; Gaz. vol. 145; p. 1123.
- Hunt, W. H., New York, N. Y. Manure-receptacle. No. 935,511; Sept. 28; Sp. p. 5106; Gaz. vol. 146; p. 898.
- Hunt, W. H., New York, N. Y. Elevating device. No. 943,936; Dec. 21; Sp. p. 4097; Gaz. vol. 149; p. 710.
- Hunter, A., administratrix. (See Hunter, H. C.)
- Hunter, B. R., Kings Mountain, N. C. Lubricator. No. 917,608; Apr. 6; Sp. p. 1259; Gaz. vol. 141; p. 222.
- Hunter, E. R. (See White and Hunter.)
- Hunter, F. (See Brown and Hunter.)
- Hunter, F. B., Memphis, Tenn. Compound faucet. No. 938,868; Nov. 2; Sp. p. 913; Gaz. vol. 148; p. 144.
- Hunter, F. B. and H. B., Memphis, Tenn. Combined fire-engine and mechanical propelling means. No. 932,282; Aug. 24; Sp. p. 5623; Gaz. vol. 145; p. 959.
- Hunter Fan & Motor Company. (See Locke, N. A., assignor.)
- Hunter, G., Victoria, British Columbia, Canada. Extracting trees and stumps from the soil by means of explosives. No. 917,441; Apr. 6; Sp. p. 961; Gaz. vol. 141; p. 167.
- Hunter, H., Prescott, Ariz. Screen-door catch. No. 944,193; Dec. 21; Sp. p. 4636; Gaz. vol. 149; p. 794.
- Hunter, H. B. (See Hunter, F. B. and H. B.)
- Hunter, H. B., Norfolk, Va. Making magnesium salts and ammonia. No. 932,130; Aug. 24; Sp. p. 5328; Gaz. vol. 145; p. 909.
- Hunter, H. C., deceased, Jersey City, N. J.; A. Hunter administratrix. Metal-drawing press. No. 929,594; July 27; Sp. p. 5948; Gaz. vol. 144; p. 1046.
- Hunter, H. H., Berkeley Springs, W. Va., assignor of one-half to R. E. and D. Berry, Ashgrove, Va. Automatic mail receiving and delivering apparatus. No. 922,701; May 25; Sp. p. 5366; Gaz. vol. 142; p. 946.
- Hunter, J. A., *et al.* (See Ursbruck, J. H. and J. B., assignors.)
- Hunter, J. C. (See Glover and Hunter.)
- Hunter, J. H., and W. A. Palmer, Dublin, Ireland. Bottle and other vessel. No. 910,686; Jan. 26; Sp. p. 4617; Gaz. vol. 138; p. 840.
- Hunter, J. O., Red Sulphur Springs, W. Va. Surgical table. No. 923,656; June 1; Sp. p. 1207; Gaz. vol. 143; p. 186.
- Hunter, J. R., and J. W. Foster, assignors of one-fourth to A. Sabel, Jacksonville, Fla. Wrench. No. 915,861; Mar. 23; Sp. p. 4543; Gaz. vol. 140; p. 807.
- Hunter, J. W., Tabor, Iowa. Hair-dressing device. No. 909,902; Jan. 19; Sp. p. 2972; Gaz. vol. 138; p. 551.
- Hunter, L. B., Greensburg, Ind. Joint for metal roofing. No. 938,869; Nov. 2; Sp. p. 915; Gaz. vol. 148; p. 144.
- Hunter, M. A., *et al.* (See Ursbruck, J. H. and J. B., assignors.)
- Hunter, M. E., Vincennes, Ind. Carburetor. No. 944,867; Dec. 28; Sp. p. 6123; Gaz. vol. 149; p. 1052.
- Hunter, R., Atlanta, Ga. Registering device. (Reissue.) No. 13,052; Dec. 7; Sp. p. 1782; Gaz. vol. 149; p. 287.
- Hunter, R. F., Bellefonte, Pa. Ventilator. No. 909,601; Jan. 12; Sp. p. 2355; Gaz. vol. 138; p. 418.
- Hunter, R. M., Philadelphia, Pa. Record for sound-reproducing machines. No. 937,680; Oct. 19; Sp. p. 4322; Gaz. vol. 147; p. 736.
- Hunter, S. D., Philadelphia, Pa. Automobile wind-shield. No. 910,065; Jan. 19; Sp. p. 3286; Gaz. vol. 138; p. 606.
- Hunter, S. M., C. E. Akeley, and D. E. Holt, Chicago, Ill.; said Akeley assignor to said Hunter and Holt. Turn-table. No. 913,388; Feb. 23; Sp. p. 4874; Gaz. vol. 139; p. 873.
- Hunter, W. C., Cora, Ill. Egg-tester. No. 917,767; Apr. 13; Sp. p. 1620; Gaz. vol. 141; p. 301.
- Hunter, W. F., Brookfield, Mo. Extensible hinge. No. 928,760; July 20; Sp. p. 4269; Gaz. vol. 144; p. 744.
- Hunter, W. M., Decatur, Tenn. Plow. No. 915,297; Mar. 16; Sp. p. 3393; Gaz. vol. 140; p. 592.
- Hunter, W. N., Blanchester, Ohio. Stapling mechanism. No. 915,862; Mar. 23; Sp. p. 4544; Gaz. vol. 140; p. 807.
- Huntington, J., Philadelphia, Pa. Railway-rail. No. 940,320; Nov. 16; Sp. p. 4159; Gaz. vol. 148; p. 702.
- Huntley, A. D., Palatka, Fla. Fruit-sorter. No. 909,413; Jan. 12; Sp. p. 1981; Gaz. vol. 138; p. 353.
- Huntley, F. S. (See Merriam, L. W., assignor.)
- Huntley, S. A., Denver, Colo. Centrifugal pump. No. 913,140; Feb. 23; Sp. p. 4367; Gaz. vol. 139; p. 789.
- Huntley, S. A., Chicago, Ill. Bench stop and clamp. No. 915,354; Mar. 16; Sp. p. 3499; Gaz. vol. 140; p. 610.
- Huntley, S. A., Kansas City, Mo. Target-trap. No. 922,588; May 25; Sp. p. 5126; Gaz. vol. 142; p. 909.
- Huntley, S. A., assignor of one-third to F. L. Stone and one-third to T. E. Carmody, Denver, Colo. Centrifugal pump. No. 919,869; Apr. 27; Sp. p. 6252; Gaz. vol. 141; p. 1066.
- Huntton, B. B., and O. McCann, Louisville, Ky., assignors to American Printing House for the Blind. Printing for the blind in raised letters. No. 920,872; May 4; Sp. p. 1601; Gaz. vol. 142; p. 255.
- Huntton, C. F., Chicago, Ill. Brake-beam. No. 943,021; Dec. 14; Sp. p. 2140; Gaz. vol. 149; p. 367.
- Huntsberry, H. E., Cleveland, Ohio. Clam-shell bucket. No. 933,455; Sept. 7; Sp. p. 957; Gaz. vol. 146; p. 144.
- Hupfeld Aktiengesellschaft, Firm of L. (See Bajde, J., assignor.)
- Hurd, B., New York, N. Y. Winding-machine. No. 912,681; Feb. 16; Sp. p. 3437; Gaz. vol. 139; p. 613.
- Hurff, L. W., Galesburg, Ill. Hanger for ear-corn. No. 919,173; Apr. 20; Sp. p. 4560; Gaz. vol. 141; p. 797.
- Hurford, O. P., Chicago, Ill. Obtaining nitrogen from air. No. 914,279; Mar. 2; Sp. p. 1329; Gaz. vol. 140; p. 205.
- Hurford, O. P., Chicago, Ill. Extracting nitrogen from air. No. 923,846; June 8; Sp. p. 1686; Gaz. vol. 143; p. 280.
- Hurford, O. P., Chicago, Ill. Making salts of ammonia, especially sulfate of ammonia. No. 940,972; Nov. 23; Sp. p. 5580; Gaz. vol. 148; p. 944.
- Hurlbert, O., St. Johns, Oreg. Combined tam-o'-shanter and hood. No. 927,144; July 6; Sp. p. 927; Gaz. vol. 144; p. 149.
- Hurlbut, L. A., Fairbury, Nebr. Sickle. No. 931,764; Aug. 24; Sp. p. 4542; Gaz. vol. 145; p. 788.
- Hurlbut, E. W. (See Dickson, E. A., assignor.)
- Hurlbut, G. K., and C. C. Williams, Milwaukee, Wis. Adjustable base for cuts. No. 917,947; Apr. 13; Sp. p. 1988; Gaz. vol. 141; p. 362.
- Hurley, C. P., *et al.* (See Turner, H. P., assignor.)
- Hurley, D., Richmond, Ind. Lady's rain-suit. No. 927,542; July 13; Sp. p. 1723; Gaz. vol. 144; p. 307.

*Alphabetical list of patentees—Continued.*

- Hurley, D., and W. T. Barratt, assignors, by mesne assignments, to A. and A. J. Cooper and C. S. Kehoe, Bennington, Vt., executors of C. Cooper, deceased. Circular-rib-knitting machine. No. 908,994; Jan. 5; Sp. p. 1161; Gaz. vol. 138; p. 184.
- Hurley, D. J., and F. W. Slager, assignors to New Haven Clock Company, New Haven, Conn. Fastening device for automobile-clocks. No. 914,280; Mar. 2; Sp. p. 1331; Gaz. vol. 140; p. 206.
- Hurley, J., Little Falls, N. Y. Dust-proof receptacle for tubular straws. No. 943,879; Dec. 21; Sp. p. 3964; Gaz. vol. 149; p. 689.
- Hurley, J. W., Portland, Oreg. Wrench. No. 909,799; Jan. 12; Sp. p. 2752; Gaz. vol. 138; p. 484.
- Hurley, T. F. (See Lynch, J. F., assignor.)
- Hurst, A. (See Spencer and Hurst.)
- Hurst, A. R., St. Louis, Mo. Electric-light-button-turning device. No. 924,783; June 15; Sp. p. 3631; Gaz. vol. 143; p. 623.
- Hurst, C. A., Buffalo, N. Y. Beehive. No. 918,052; Apr. 13; Sp. p. 2223; Gaz. vol. 141; p. 399.
- Hurst, F. S., Los Angeles, Cal. Beam-compass. No. 939,597; Nov. 9; Sp. p. 2556; Gaz. vol. 148; p. 419.
- Hurst, G. W., Hawthorne, Nev. Gate. No. 916,873; Mar. 30; Sp. p. 6482; Gaz. vol. 140; p. 1158.
- Hurst, H. L. (See Lamiell and Hurst.)
- Hurst, L. R., Louisville, Ky. Flushometer. No. 917,301; Apr. 6; Sp. p. 709; Gaz. vol. 141; p. 121.
- Hurst, W., Winnipeg, Manitoba, Canada. Excavator. No. 914,142; Mar. 2; Sp. p. 1042; Gaz. vol. 140; p. 165.
- Hurst, W. A., Battle Ground, Ind. Lock. No. 928,761; July 20; Sp. p. 4270; Gaz. vol. 144; p. 744.
- Hurt, H. B., *et al.* (See Mitchell, C. B., assignor.)
- Hurteau, G. H., Montgomery, Ill. Metallic shelving. No. 929,308; July 27; Sp. p. 5425; Gaz. vol. 144; p. 954.
- Hurwitz, E. (See Remané, Hurwitz, and Gottschalk.)
- Hurwitz, H., and R. Lehming, Berlin, Germany; said Lehming assignor to said Hurwitz. Blue-flame burner. No. 917,302; Apr. 6; Sp. p. 711; Gaz. vol. 141; p. 121.
- Hurwood Manufacturing Company. (See Stendahl, K. L., assignor.)
- Husberg, H. (See Alling, J. A., assignor.)
- Huscher, G., Berlin, Germany. Rotary internal-combustion engine. No. 914,281; Mar. 2; Sp. p. 1332; Gaz. vol. 140; p. 206.
- Huse, B., Palermo, assignor of one-half to G. M. Sparks, Oroville, Cal. Mechanical movement. No. 915,181; Mar. 16; Sp. p. 3163; Gaz. vol. 140; p. 555.
- Huse, B., Palermo, assignor of one-half to G. M. Sparks, Oroville, Cal. Mechanical movement. No. 933,904; Sept. 14; Sp. p. 1918; Gaz. vol. 146; p. 317.
- Huse, C. A., and J. G. Douty, Williamsport, Pa., assignors to Simplex Surface Contact Company. Electric-railway system. No. 920,339; May 4; Sp. p. 507; Gaz. vol. 142; p. 80.
- Huse, L. C. (See Huse, W. D. and L. C.) (Reissue.)
- Huse, W. D. and L. C., Laconia, N. H., assignors, by mesne assignments, to Paramount Knitting Company. Knitting-machine. (Reissue.) No. 12,917; Feb. 9; Sp. p. 2549; Gaz. vol. 139; p. 438.
- Huss, J., Middletown, Pa. Scythe. No. 908,995; Jan. 5; Sp. p. 1162; Gaz. vol. 138; p. 185.
- Huss, R. W., assignor of one-half to F. C. Elder, Chicago, Ill. Device for testing the consistency of catsup, tomato-pulp, and other thick liquids. No. 943,830; Dec. 21; Sp. p. 3864; Gaz. vol. 149; p. 672.
- Hussey, B. K., Indianapolis, Ind. Sliding-door construction. No. 937,810; Oct. 26; Sp. p. 4610; Gaz. vol. 147; p. 799.
- Hussey, J. M., Cambridge, Mass. Apparatus for desiccating eggs. No. 945,002; Dec. 28; Sp. p. 6382; Gaz. vol. 149; p. 1096.
- Hussey, J. R., Indianapolis, Ind. Sliding-door construction. No. 909,602; Jan. 12; Sp. p. 2356; Gaz. vol. 138; p. 418.
- Hussey, P. I. (See Bryant, E. S., assignor.)
- Husson, A., Oshkosh, Wis. Self-heating soldering-iron. No. 932,865; Aug. 31; Sp. p. 6841; Gaz. vol. 145; p. 1174.
- Husson, L., assignor of one-half to A. F. Bornot, Philadelphia, Pa. Photographic dry-plate. No. 922,908; May 25; Sp. p. 5808; Gaz. vol. 142; p. 1013.
- Hustan, J. V., assignor of one-half to D. Schoonover, Havana, Ill. Vehicle-axle. No. 937,530; Oct. 19; Sp. p. 4054; Gaz. vol. 147; p. 689.
- Husted, E. E., Newport, N. J. Transplanter. No. 921,993; May 18; Sp. p. 3923; Gaz. vol. 142; p. 686.
- Husted, J. H., Chicago, Ill. Envelop-fastener. No. 920,466; May 4; Sp. p. 753; Gaz. vol. 142; p. 121.
- Husted, W. A. (See Lage, W. J., assignor.)
- Hustis, R. L., Milwaukee, Wis. Smoking-pipe. No. 909,903; Jan. 19; Sp. p. 2973; Gaz. vol. 138; p. 551.
- Huston, C. L., Coatesville, Pa. Transfer-table for rolling-mills. No. 942,644; Dec. 7; Sp. p. 1276; Gaz. vol. 149; p. 209.
- Huston, D. E. (See Hershey and Huston.)
- Huston, I. G., Carey, Ohio. Wire-splicer. No. 939,509; Nov. 9; Sp. p. 2350; Gaz. vol. 148; p. 390.
- Hutcheson, C. L. (See Cleveland, R. M., assignor.)
- Hutchings, C. E., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Photographic camera. No. 932,392; Aug. 24; Sp. p. 5824; Gaz. vol. 145; p. 995.
- Hutchings, F. E., New York, N. Y. Rotary wheel-guard for cars. No. 920,467; May 4; Sp. p. 755; Gaz. vol. 142; p. 122.
- Hutchings, F. E., New York, N. Y. Rotary wheel-guard. No. 920,574; May 4; Sp. p. 973; Gaz. vol. 142; p. 158.
- Hutchings, J., Moorfields, London, England. Combined turbine and internal-combustion motor-engine. No. 919,174; Apr. 20; Sp. p. 4561; Gaz. vol. 141; p. 797.
- Hutchings, J., London, England. Rock-drill or boring-tool. No. 931,611; Aug. 17; Sp. p. 4161; Gaz. vol. 145; p. 714.
- Hutchings, J., London, England. Direct-acting pumping-engine. No. 934,312; Sept. 14; Sp. p. 2717; Gaz. vol. 140; p. 451.
- Hutchings, J., London, England. Combined turbine and internal-combustion motor-engine. No. 935,512; Sept. 28; Sp. p. 5108; Gaz. vol. 146; p. 898.
- Hutchings, J., London, England. Fuel feeding and regulating apparatus. No. 944,868; Dec. 28; Sp. p. 6126; Gaz. vol. 149; p. 1053.
- Hutchings, M. C., Bozeman, Mont. Breakaway-clutch for elevators and mine-cages. No. 914,841; Mar. 9; Sp. p. 2498; Gaz. vol. 140; p. 417.
- Hutchings, W. S. (See Gebhardt and Hutchings.)
- Hutchins, C. L. (See Edney, W. T., assignor.)
- Hutchins Car Roofing Company. (See Thompson, W. D., assignor.)
- Hutchins Car Roofing Company. (See Warren and Herbert, assignors.)
- Hutchins, E. N. (See Bennett, S. W., assignor.)
- Hutchins, F. (See Phillips and Hutchins.)
- Hutchins, G. F. (See Jenckes and Hutchins.)
- Hutchins, G. F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Automatic weft-replenishing loom. No. 932,131; Aug. 24; Sp. p. 5329; Gaz. vol. 145; p. 909.
- Hutchins, G. F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Filling-detector mechanism for looms. No. 939,696; Nov. 9; Sp. p. 2757; Gaz. vol. 148; p. 455.
- Hutchins, I., Chicago, Ill. Automatic valve for steam-radiators. No. 914,418; Mar. 9; Sp. p. 1624; Gaz. vol. 140; p. 277.
- Hutchins, N. A., assignor of one-half to J. K. Comstock, Chicago, Ill. Cleansing fluid or compound. No. 930,965; Aug. 10; Sp. p. 2778; Gaz. vol. 145; p. 472.
- Hutchinson, A. E., Victor, Colo. Pipette attachment. No. 917,442; Apr. 6; Sp. p. 962; Gaz. vol. 141; p. 167.
- Hutchinson, C. A. S. (See Salter and Hutchinson.)
- Hutchinson, C. M., Girard, assignor to Erie City Manufacturing Company, Erie, Pa. Cabinet. No. 940,023; Nov. 16; Sp. p. 3459; Gaz. vol. 148; p. 597.
- Hutchinson, F. S., Flushing, N. Y. Road construction and making same. No. 918,156; Apr. 13; Sp. p. 2427; Gaz. vol. 141; p. 435.
- Hutchinson, M., Muskegon, Mich. Folding box. No. 913,894; Mar. 2; Sp. p. 470; Gaz. vol. 140; p. 77.
- Hutchinson, S. B., Ypsilanti, Mich. Sectional folder. No. 934,073; Sept. 14; Sp. p. 2246; Gaz. vol. 146; p. 370.
- Hutchinson, T. J., Manchester, England. Digester. No. 914,349; Mar. 2; Sp. p. 1475; Gaz. vol. 140; p. 229.
- Hutchinson, T. T., Newark, N. J. Cigarette. No. 922,481; May 25; Sp. p. 4903; Gaz. vol. 142; p. 874.
- Hutchinson, W. B., trustee. (See Rector, A., assignor.)
- Hutchinson, W. F., Nyack, assignor of one-half to C. A. Tatum, New York, N. Y. Lamp-working apparatus for vehicles. No. 930,669; Aug. 10; Sp. p. 2152; Gaz. vol. 145; p. 376.
- Hutchinson, W. F., Nyack, assignor of one-half to C. A. Tatum, New York, N. Y. Lamp-working apparatus. No. 930,670; Aug. 10; Sp. p. 2153; Gaz. vol. 145; p. 376.
- Hutchison, H. H. (See Stansbury and Hutchison.)
- Hutchison, J. F. (See Dewey, C. A., assignor.)
- Hutchison, J. O., Crockett, Tex. Pump-spout. No. 919,870; Apr. 27; Sp. p. 6255; Gaz. vol. 141; p. 1066.
- Hutchison, M. R., Bronxville, N. Y. Mechanically-actuated acoustic apparatus and method. No. 923,048; May 25; Sp. p. 6075; Gaz. vol. 142; p. 1057.
- Hutchison, M. R., Summit, N. J. Cam-operated horn. No. 923,049; May 25; Sp. p. 6082; Gaz. vol. 142; p. 1058.
- Hutchison, M. R., Summit, N. J. Mechanically-actuated diaphragm horn or alarm. No. 923,122; May 25; Sp. p. 6248; Gaz. vol. 142; p. 1082.
- Hutchison, R., Brookline, Mass. Water-tube boiler. No. 936,723; Oct. 12; Sp. p. 2361; Gaz. vol. 147; p. 392.
- Hutchison, R. A., Salem, N. J. Can-straightening machine. No. 912,377; Feb. 16; Sp. p. 2792; Gaz. vol. 139; p. 509.



*Alphabetical list of patentees—Continued.*

- Hutchison, W. A., Buchanan, Mich. Attachment for ice-cream cans. No. 931,874; Aug. 24; Sp. p. 4761; Gaz. vol. 145; p. 823.
- Huth, M. (See Engelhardt and Huth.)
- Huth, M., Charlottenburg, near Berlin, assignor to Siemens & Halske A. G., Berlin, Germany. Apparatus for the electrolysis of aqueous solutions. No. 935,109; Sept. 28; Sp. p. 4312; Gaz. vol. 146; p. 769.
- Hutter, A., *et al.* (See Steingassner, H., assignor.)
- Hüttmann, E., Hamburg, Germany. Knife for surgical purposes. No. 931,612; Aug. 17; Sp. p. 4166; Gaz. vol. 145; p. 715.
- Hutton, E. F., New York, and G. A. Ellis, Jr., Bay Shore, assignors to Miniature Telephone Booth Co., New York, N. Y. Appliance for use with telephone-transmitters. No. 925,775; June 22; Sp. p. 5638; Gaz. vol. 143; p. 978.
- Huwe, T. W. (See Schmidt and Huwe.)
- Huxley, C. E., Buffalo, N. Y. Valve. No. 934,614; Sept. 21; Sp. p. 3311; Gaz. vol. 146; p. 576.
- Huxley, H. M., assignor to American Steel and Wire Company, Worcester, Mass. Apparatus for coating metals. No. 928,385; July 20; Sp. p. 3515; Gaz. vol. 144; p. 621.
- Huyck, F. P., Toledo, Ohio. Clutch. No. 941,349; Nov. 23; Sp. p. 6389; Gaz. vol. 148; p. 1068.
- Huyck, F. P., and J. D. R. Lamson, Toledo, Ohio. Toy savings-bank. No. 944,038; Dec. 21; Sp. p. 4314; Gaz. vol. 149; p. 744.
- Huyette, W. S., assignor to Wickes Bros., Chicago, Ill. Gas-engine valve. No. 911,503; Feb. 2; Sp. p. 909; Gaz. vol. 139; p. 159.
- Huyser, A., Colorado Springs, Colo. Camper's bake pan or oven. No. 925,911; June 22; Sp. p. 5923; Gaz. vol. 143; p. 1023.
- Huysmans, G., Brussels, Belgium. Antivibration device for vehicles of any kind. No. 928,520; July 20; Sp. p. 3779; Gaz. vol. 144; p. 663.
- Hyams, H. H., *et al.* (See Keck and Dom, assignors.)
- Hyatt, C. F., and E. W. Messmer, Indianapolis, Ind. Horseshoe. No. 929,950; Aug. 3; Sp. p. 695; Gaz. vol. 145; p. 111.
- Hyatt Roller-Bearing Company. (See Shirley, C. I., assignor.)
- Hyatt, S. W., Columbus, Ohio. Inverted gas arc-lamp. No. 933,252; Sept. 7; Sp. p. 512; Gaz. vol. 146; p. 78.
- Hyde, B. T. B., New York, N. Y. Container-top. No. 942,562; Dec. 7; Sp. p. 1116; Gaz. vol. 149; p. 131.
- Hyde, D. B., Santa Ana, Cal. Safety-collar for abrasive wheels. No. 927,145; July 6; Sp. p. 928; Gaz. vol. 144; p. 150.
- Hyde, G. H., Watertown, N. Y. Sheet-metal boat. No. 926,252; June 29; Sp. p. 6643; Gaz. vol. 143; p. 1172.
- Hyde, G. H., Watertown, N. Y. Apparatus for deforming sheet-metal plates. No. 926,253; June 29; Sp. p. 6645; Gaz. vol. 143; p. 1172.
- Hyde, O. H. (See Frantz, P., assignor.)
- Hyde, T. R., Jr., assignor to Scovill Manufacturing Company, Waterbury, Conn. Snap-fastener. No. 920,063; Apr. 27; Sp. p. 6641; Gaz. vol. 141; p. 1130.
- Hyd-leather M'fg. Co. (See De Montford, G. R., assignor.)
- Hydraulic Oil Distribution Company. (See Snell, L. C., assignor.)
- Hydrocarbon Converter Company. (See Benham, E. B., assignor.)
- Hygienic Renovating Company. (See Clements and Hostler, assignors.)
- Hygienic Soap Granulator Company. (See Edwards, R. L., Jr., assignor.)
- Hygienic Soap Granulator Company. (See Egge, F., assignor.)
- Hyland, G. H. (See Lucas, F., assignor.)
- Hyland, R. R., Round Rock, Tex. Cotton-chopper. No. 913,729; Mar. 2; Sp. p. 106; Gaz. vol. 140; p. 19.
- Hyland, T. B., Columbiana, Ohio. Device for use in cleaning out wells. No. 936,901; Oct. 12; Sp. p. 2709; Gaz. vol. 147; p. 452.
- Hylander, C. E., Pittsburg, Pa. Steam and liquid separator. No. 934,727; Sept. 21; Sp. p. 3527; Gaz. vol. 146; p. 614.
- Hyller, K. L., Chicago, Ill. Collapsible or folding frame for hammocks. No. 915,182; Mar. 16; Sp. p. 3164; Gaz. vol. 140; p. 555.
- Hyller, K. L., Chicago, Ill. Collapsible or folding frame for hammocks. No. 935,513; Sept. 28; Sp. p. 5114; Gaz. vol. 146; p. 899.
- Hymán, D. D., Philadelphia, Pa. Dental plate. No. 941,149; Nov. 23; Sp. p. 5975; Gaz. vol. 148; p. 1005.
- Hymans, F., Pittsburg, Pa. Hydraulic packing. No. 938,870; Nov. 2; Sp. p. 915; Gaz. vol. 148; p. 144.
- Hypse, G. N., Omaha, Neb. Wheeled cultivator. No. 911,128; Feb. 2; Sp. p. 200; Gaz. vol. 139; p. 38.
- Hyronimus, F., Cugny, France. Charging of primers. No. 908,674; Jan. 5; Sp. p. 526; Gaz. vol. 138; p. 81.
- Hyser, G. W., Minneapolis, Minn. Whistle. No. 926,490; June 29; Sp. p. 7081; Gaz. vol. 143; p. 1249.
- Hyslop, J., assignor to Whiting Foundry Equipment Company, Harvey, Ill. Cupola car-dumping mechanism. No. 911,725; Feb. 9; Sp. p. 1395; Gaz. vol. 139; p. 259.
- Hyslop, J., assignor to Whiting Foundry Equipment Company, Harvey, Ill. Bottom-door hoist for furnaces or cupolas. No. 911,726; Feb. 9; Sp. p. 1396; Gaz. vol. 139; p. 260.
- Hyslop, J., assignor to Whiting Foundry Equipment Company, Harvey, Ill. Movable-track-section tram-rail system. No. 915,604; Mar. 16; Sp. p. 4017; Gaz. vol. 140; p. 693.
- Hysong, C. E. (See Finch, A., assignor.)
- Hyttén, E. A., Copenhagen, Denmark, assignor to American Telegraphone Company. Telegraphone apparatus. No. 909,414; Jan. 12; Sp. p. 1933; Gaz. vol. 138; p. 353.
- Hyzer, W. C., Philadelphia, Pa. Reclamation of purified metal. No. 943,248; Dec. 14; Sp. p. 2616; Gaz. vol. 149; p. 443.
- I. Stephenson Company. (See Shank, E. F., assignor.)
- I. B. Kleinert Rubber Company. (See Guinzburg, V., assignor.)
- I. B. Palmer Co. (See Palmer, I. E., assignor.)
- I. J. Smith Mfg. Co. (See Smith, I. J., assignor.)
- I. X. L. Manufacturing Company. (See Polzer, F., assignor.)
- Ibbotson, J., Brooklyn, N. Y. Kosin-applicator. No. 936,133; Oct. 5; Sp. p. 1127; Gaz. vol. 147; p. 171.
- Ibchert, M., Pescadero, Cal. Level. No. 941,368; Nov. 30; Sp. p. 6445; Gaz. vol. 148; p. 1098.
- Icke, H. A., Church Stretton, England. Concrete dam. No. 942,645; Dec. 7; Sp. p. 1279; Gaz. vol. 149; p. 209.
- Idaho National Harvester Company. (See Anderson and Quesnell, assignors.)
- Ide, F. P., assignor to A. L. Ide & Sons, Springfield, Ill. Slide-bearing lubricator. No. 926,333; June 29; Sp. p. 6807; Gaz. vol. 143; p. 1197.
- Ide & Sons, A. L. (See Ide, F. P., assignor.)
- Ideal Automatic Mfg. Co. (See McMullen, C. P., assignor.)
- Ideal Filter Company. (See Miller, H. G., assignor.)
- Ideal Fire Escape Co. (See Turner, W. E., assignor.)
- Ielfield, F. C., assignor to Columbia Postal Supply Company, Silver Creek, N. Y. Mail-marking machine. No. 912,244; Feb. 9; Sp. p. 2469; Gaz. vol. 139; p. 426.
- Iffert, C. A., Monroe, Wis. Geographic-mathematical apparatus. No. 916,874; Mar. 30; Sp. p. 6484; Gaz. vol. 140; p. 1158.
- Ifft, C. W., Zellenopie, Pa. Swing. No. 914,143; Mar. 2; Sp. p. 1044; Gaz. vol. 140; p. 165.
- Igatz, P., Elizabeth, N. J. Boat and vessel. No. 933,905; Sept. 14; Sp. p. 1919; Gaz. vol. 146; p. 317.
- Igel, C. M. (See Stutz and Igel.)
- Igelstrom, J., Massillon, Ohio. Sign. No. 911,991; Feb. 9; Sp. p. 1976; Gaz. vol. 139; p. 346.
- Igou, D. T., assignor to E. G. Igou, Springfield, Ohio. Machine for spinning and twisting stick-candy. No. 937,702; Oct. 19; Sp. p. 4379; Gaz. vol. 147; p. 744.
- Igou, E. G. (See Igou, D. T., assignor.)
- Igou, S. C. (See Rozier and Igou.)
- Ihlder, J. D., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Electromagnetic switch. No. 936,724; Oct. 12; Sp. p. 2363; Gaz. vol. 147; p. 393.
- Imhe, H., Leonard, N. D. Bag-holding device. No. 941,578; Nov. 30; Sp. p. 6892; Gaz. vol. 148; p. 1167.
- Imhnen, J. G., *et al.* (See Leich, O. M., assignor.)
- Ihrig, L. G., Tacoma, Wash. Sofa-bed. No. 940,321; Nov. 16; Sp. p. 4161; Gaz. vol. 148; p. 702.
- Iiams, T. S., Bentleyville, Pa. Switch for railways. No. 928,977; July 27; Sp. p. 4703; Gaz. vol. 144; p. 844.
- Iitsuka, B., San Diego, Cal. Vegetable-masher. No. 941,073; Nov. 23; Sp. p. 5801; Gaz. vol. 148; p. 978.
- Ike, C. F., Kansas City, Mo. Bath-tub. No. 920,575; May 4; Sp. p. 974; Gaz. vol. 142; p. 159.
- Ikonograph Company of America. (See Lagergren, J. E., assignor.)
- Iles, C. E., Birmingham, England. Sewing-thimble. No. 936,902; Oct. 12; Sp. p. 2711; Gaz. vol. 147; p. 452.
- Ilg, C. C., assignor of one-half to F. Nagy, New York, N. Y. Safety-crane. No. 939,027; Nov. 2; Sp. p. 1244; Gaz. vol. 148; p. 199.
- Ilgencritz, W. F., Monroe, Mich. Planting-machine. No. 933,178; Sept. 7; Sp. p. 307; Gaz. vol. 146; p. 50.
- Iliff, J., Madison, Wis. Work-car. No. 929,440; July 27; Sp. p. 5674; Gaz. vol. 144; p. 996.
- Illinois Cutlery Company. (See Schimkat, G., assignor.)
- Illinois Heater and Manufacturing Company. (See Schoenecke, A. J., assignor.)
- Illinois Iron & Bolt Company. (See Fierke, J. F., assignor.)
- Illinois Malleable Iron Company. (See Stark, W. O., assignor.)
- Illinois Modern Machine Company. (See Lundquist, E. F. T., assignor.)
- Illinois Pneumatic Transmission Co. (See Wolever, F. H., assignor.)
- Illinois Sewing Machine Company. (See Free, W. C., assignor.)
- Illinois Stoker Company. (See Maxfield, L. H., assignor.)
- Illis, S., Youngstown, Ohio. Razor. No. 914,842; Mar. 9; Sp. p. 2500; Gaz. vol. 140; p. 418.

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- Ilmer, L., Jr., and E. J. Kunze, New York, N. Y., assignors to said Ilmer, Kunze, and W. Bohrer. Valve mechanism. No. 909,187; Jan. 12; Sp. p. 1558; Gaz. vol. 138; p. 281.
- Ilmer, L., Jr., and E. J. Kunze, New York, N. Y., assignors to said Ilmer, Kunze, and W. Bohrer. Valve mechanism. No. 909,304; Jan. 12; Sp. p. 1779; Gaz. vol. 138; p. 320.
- Ily, J., Jamestown, N. Y. Mixing attachment for internal-combustion engines. No. 933,709; Sept. 7; Sp. p. 1526; Gaz. vol. 146; p. 231.
- Ily, J., Jamestown, N. Y. Gas-turbine. No. 933,906; Sept. 14; Sp. p. 1920; Gaz. vol. 146; p. 318.
- Ily, J., Jamestown, N. Y. Combination pressure-generator, mixer, and engine. No. 933,907; Sept. 14; Sp. p. 1929; Gaz. vol. 146; p. 318.
- Istrup, A., St. Cloud, Minn. Blackboard-eraser cleaner. No. 925,478; June 22; Sp. p. 4994; Gaz. vol. 143; p. 881.
- Imbert, A. H., Grand-Montrouge, France, assignor to Imbert Process Company, New York, N. Y. Reducing zinc ores. No. 927,857; July 13; Sp. p. 2411; Gaz. vol. 144; p. 412.
- Imbert, G., Nuremberg, Germany. Obtaining chlor-acetic acid. No. 935,006; Sept. 28; Sp. p. 5309; Gaz. vol. 146; p. 931.
- Imbert Process Company. (See Imbert, A. H., assignor.)
- Imboden, E., Cape Girardeau, Mo. Current-motor. No. 914,574; Mar. 9; Sp. p. 1933; Gaz. vol. 140; p. 330.
- Imhof, H. (See Hamburger and Imhof.)
- Imhoff, K., Bredeney, near Essen-on-the-Ruhr, Germany. Sewage-treatment apparatus. No. 924,664; June 15; Sp. p. 3378; Gaz. vol. 143; p. 582.
- Imhoff, M., Vienna, Austria-Hungary, assignor to W. Weltinaegeli, Oberrieden, near Zurich, Switzerland. Smoothing-iron. No. 944,732; Dec. 28; Sp. p. 5817; Gaz. vol. 149; p. 1006.
- Imlay, W. L., Conestoga, Pa., assignor to William L. Imlay Rapid Cyanide Process Company. Extracting precious metals from their ores. No. 919,434; Apr. 27; Sp. p. 5313; Gaz. vol. 141; p. 918.
- Immer, A. C., assignor of forty-five one-hundredths to J. W. Whitworth, Arcadia, Mo. Educational device. No. 935,258; Sept. 28; Sp. p. 4589; Gaz. vol. 146; p. 816.
- Immerheiser, C., assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Azo dye and making same. No. 914,144; Mar. 2; Sp. p. 1046; Gaz. vol. 140; p. 165.
- Immisch, O. C., Finchley, England. Manufacturing goods of rubber, ebonite, or vulcanite. No. 931,310; Aug. 17; Sp. p. 3588; Gaz. vol. 145; p. 618.
- Immisch, O. C., Finchley, England. Manufacture of ebonite and vulcanite. No. 937,745; Oct. 19; Sp. p. 4471; Gaz. vol. 147; p. 758.
- Imperial Art Press Co. (See Pinkham, C. A., assignor.)
- Imperial Brass Manufacturing Company. (See Haas, C. A., assignor.)
- Imperial Brass Manufacturing Company. (See Schoff, H. W., assignor.)
- Imperial Cash Register Company. (See McKee, W. J., assignor.)
- Imperial Oil Company. (See Boggs, W. S., assignor.)
- Imperial Stopper Company. (See Kirkegaard, G., assignor.)
- Imperial Typewriter Company. (See Moya, H., assignor.)
- Impey, F. P., Birmingham, England, assignor to H. F. Bushong, Kalamazoo, Mich. Temporary binder. No. 920,146; May 4; Sp. p. 107; Gaz. vol. 142; p. 14.
- Improved Appliance Company. (See Flatt, W. A., assignor.)
- Improved Boiler Feed Company. (See Moffatt, W. A., assignor.)
- Improved Smoking Process Co. (See Brand, M., assignor.)
- Incandescent Light & Stove Company. (See Stubbers, J., assignor.)
- Incandescent Oil Lamp Company. (See Fahnke, A. A., assignor.)
- Indahl, M. C. (See Bancroft and Indahl.)
- Independent Harvester Company. (See Boda, J., assignor.)
- Independent Manufacturing Company. (See Liddle, H. E., assignor.)
- Independent Powder Company of Missouri. (See Bent and Talley, assignors.)
- Independent Whip Company. (See Moore, C. M., assignor.)
- Indestructible Phonographic Record Co. (See Smith, R. B., assignor.)
- Indiana Concrete Form Co. (See West, J. H., assignor.)
- Indiana Match Company. (See Sterba and Birch, assignors.)
- Indiana Silo Company. (See Wilson, E. M., assignor.)
- Indianapolis Switch & Frog Company. (See Price and Thomas, assignors.)
- Industrial Development & Manufacturing Company. (See Sawyer, W. S., assignor.)
- Industrial Motor Company. (See Davy and Dauber, assignors.)
- Industrial Storage Battery Company. (See Guyon and Vicairey, assignors.)
- Ingalls, A. G., La Prairie, Quebec, Canada. Furnace. No. 935,759; Oct. 5; Sp. p. 292; Gaz. vol. 147; p. 46.
- Ingard, C. J., San Francisco, Cal. Truck. No. 942,563; Dec. 7; Sp. p. 1117; Gaz. vol. 149; p. 181.
- Ingersoll, C. P., Hartford, Conn. Attachment for chairs. No. 944,331; Dec. 28; Sp. p. 4924; Gaz. vol. 149; p. 868.
- Ingersoll, D. A., near Green Valley, Ill. Gate. No. 937,609; Oct. 19; Sp. p. 4198; Gaz. vol. 147; p. 715.
- Ingersoll, G. W. (See Smith, Ghiglieri, and Ingersoll.)
- Ingersoll, R. H. (See Sherman, L. P., assignor.)
- Ingersoll-Rand Company. (See Gibson, A. H., assignor.)
- Ingersoll-Rand Company. (See Haight, H. V., assignor.)
- Ingersoll-Rand Company. (See Hansen, C. C., assignor.)
- Ingersoll-Rand Company. (See Kurth, M., assignor.)
- Ingersoll-Rand Company. (See Prellwitz, W., assignor.)
- Ingersoll-Rand Company. (See Taylor, A. H., assignor.)
- Ingersoll-Rand Company. (See Ward, J., assignor.)
- Ingersoll-Rand Company. (See Zook, H. W., assignor.)
- Ingersoll-Sergeant Drill Company. (See Gibson, A. H., assignor.)
- Ingersoll, T. W., St. Paul, Minn., assignor to Eastman Kodak Co., Rochester, N. Y. Camera-back. No. 929,671; Aug. 3; Sp. p. 54; Gaz. vol. 145; p. 12.
- Ingham, C. L., *et al.* (See Willet, J. G., assignor.)
- Ingham, H. T. (See Campbell and Ingham.)
- Ingle, D. E. and E. H., Dayton, Ohio. Check-cabinet. No. 927,799; July 13; Sp. p. 2276; Gaz. vol. 144; p. 393.
- Ingle, E. H. (See Ingle, D. E. and E. H.)
- Inglee, L., and C. M. Hart, Amityville, N. Y. Vehicle-wheel. No. 934,178; Sept. 14; Sp. p. 2466; Gaz. vol. 146; p. 406.
- Ingold, C. F. (See Keyser and Ingold.)
- Ingold, C. F., Milwaukee, Wis. Eyeglass-mounting. No. 924,906; June 15; Sp. p. 3894; Gaz. vol. 143; p. 664.
- Ingraham, C. B. (See Wessels and Ingraham.)
- Ingraham, E. A., North Sydney, Nova Scotia, Canada. Cigar-holder. No. 917,948; Apr. 13; Sp. p. 1990; Gaz. vol. 141; p. 362.
- Ingraham, E. S., assignor to Blake and Johnson Company, Waterbury, Conn. Rise-and-fall motion for rivet-machines. No. 919,435; Apr. 27; Sp. p. 5315; Gaz. vol. 141; p. 919.
- Ingraham, W. E., Philadelphia, Pa. Combination folding bed and divan. No. 923,529; June 1; Sp. p. 924; Gaz. vol. 143; p. 143.
- Ingram, M. E., Butler, Pa. Sharpener for shears and scissors. No. 927,243; July 6; Sp. p. 1121; Gaz. vol. 144; p. 182.
- Ingram, O. L., Walla Walla, Wash., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 940,322; Nov. 16; Sp. p. 4162; Gaz. vol. 148; p. 702.
- Ingram, S., and G. L. Allen, North Yakima, Wash. Automatic switch. No. 919,871; Apr. 27; Sp. p. 6257; Gaz. vol. 141; p. 1067.
- Ingram, W. D. (See Birdwell, R. P., assignor.)
- Inland Type Foundry. (See Wilson, H. S., assignor.)
- Inman, B. M. (See Walter, A. G., assignor.)
- Inman, B. M. (See Walter and Inman.)
- Inman, E. R., Franklin, Pa. Rail-support and securing device. No. 926,872; July 6; Sp. p. 354; Gaz. vol. 144; p. 56.
- Inman, E. R., Franklin, Pa., assignor to K. G. Pohl, Redlands, Cal. Book-marker. No. 934,970; Sept. 21; Sp. p. 4010; Gaz. vol. 146; p. 697.
- Inman, G. E., Chicago, Ill. Label-coating machine. No. 911,241; Feb. 2; Sp. p. 435; Gaz. vol. 139; p. 75.
- Inman, J. L., Putnam, Conn. Twisting-machine. No. 913,895; Mar. 2; Sp. p. 472; Gaz. vol. 140; p. 78.
- Inman, O. T., *et al.* (See Matteson, R. S., assignor.)
- Innes, A. J., Sutherland, Iowa. Machine for making concrete walls. No. 925,912; June 22; Sp. p. 5924; Gaz. vol. 143; p. 1023.
- Innes, G. P., and T. C. Allen, Sydney, New South Wales, Australia. Variable-speed and reversible gear. No. 921,994; May 18; Sp. p. 3924; Gaz. vol. 142; p. 686.
- Innis, J. E. (See Holman, F. E., assignor.)
- Innis, E. E., Childress, Tex. Means for grinding triple valves. No. 929,441; July 27; Sp. p. 5675; Gaz. vol. 144; p. 997.



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- Inshaw, J. G., Handsworth, near Birmingham, England. Producing hollow blooms. No. 924,615; June 8; Sp. p. 3269; Gaz. vol. 143; p. 533.
- Insinger, A., Philadelphia, Pa. Basket for holding dishes and plates. No. 928,762; July 20; Sp. p. 4272; Gaz. vol. 144; p. 744.
- Insinger, A., Philadelphia, Pa. Cup-holding rack. No. 932,021; Aug. 24; Sp. p. 5102; Gaz. vol. 145; p. 872.
- Insinger, A., Philadelphia, Pa. Rack for holding bowls. No. 936,725; Oct. 12; Sp. p. 2366; Gaz. vol. 147; p. 393.
- Inskip, J. E., *et al.* (See Johnson, C. N., assignor.)
- Inskip, E. (See Nistle, Brady, and Inskip.)
- Inskip, E. (See Nistle, Inskip, and Brady.)
- Insull, S. (See Ball, H. P., assignor.)
- Interchangeable Blow Pipe and Metal Company. (See Fitzsimmons, C. D., assignor.)
- Interlocking Fence Company. (See Claudin, J. L., assignor.)
- Interlocking Fence Company. (See Drexler, W. F., Jr., assignor.)
- Interlocking Fence Company. (See Grimm and Drexler, assignors.)
- Interlocking Tube Company. (See Schlueter, H. W., assignor.)
- International Acheson Graphite Company. (See Acheson, E. G., assignor.) (Reissue.)
- International Acheson Graphite Company. (See Smith, W. A., assignor.)
- International Acheson Graphite Company. (See Speiden, E. C., assignor.)
- International Acheson Graphite Company. (See Williamson, A. M., assignor.)
- International Amet Company. (See Amet, E. H., assignor.)
- International Aspirator Company. (See Blum, J. R., assignor.)
- International Banding Machine Company. (See Wagner and Malorsay, assignors.)
- International Brick Machine Company. (See Diefendorf, O. G., assignor.)
- International Brick Machine Company. (See Price, W. T., assignor.)
- International Cap and Sealing Machine Company. (See Levey, T. J., assignor.) (Reissue.)
- International Chemical Company. (See Leininger, G., assignor.)
- International Cigar Machinery Company. (See Prescott, S. I., assignor.)
- International Compressed Preserving Wood Process Company. (See Scheid, H. J., assignor.)
- International Continuous Filter Press Company. (See Wheelwright, C. S., assignor.)
- International Corset Co. (See Gardner, M. B., assignor.)
- International Harvester Company. (See Andrew, W. K., assignor.)
- International Harvester Company. (See Dennis, S. K., assignor.)
- International Harvester Company. (See Funk and Turner, assignors.)
- International Harvester Company. (See Hagadone, C. A., assignor.)
- International Harvester Company. (See Johnston, E. A., assignor.)
- International Harvester Company. (See Kemp, J. S., assignor.)
- International Harvester Company. (See Latimer, J. W., assignor.)
- International Harvester Company. (See Macphail, J., assignor.)
- International Harvester Company. (See Pearson, C., assignor.)
- International Harvester Company. (See Rand, C. A. A., assignor.)
- International Harvester Company. (See Ryther, F. A., assignor.)
- International Harvester Company. (See Sharp, C. S., assignor.)
- International Harvester Company. (See Sharp, J. A., assignor.)
- International Harvester Company. (See Stone, J. A., assignor.)
- International Harvester Company. (See Turner, T. E., assignor.)
- International Heater Company. (See Camp, G. E., assignor.)
- International Metal Products Company. (See Carnahan, R. B., Jr., assignor.)
- International Motor Plow Company. (See Cook, A. E., assignor.)
- International Nickel Company. (See Turner, A. P., assignor.)
- International Patent Corporation. (See Veitch, T., assignor.)
- International Phosphate Co. (See Northbrooke, M. J., assignor.)
- International Postal Supply Company of New York. (See Dolphin, M. J., assignor.)
- International Postal Supply Company of New York. (See Jahn, F. G., assignor.)
- International Railroad Supply Company. (See Butcher, J. M., assignor.)
- International Salt Company. (See Paar, C. L., assignor.)
- International Separator Company. (See Snyder, F. T., assignor.)
- International Silver Company. (See Lashar, T. B., assignor.)
- International Speed Register Co. (See De La Monte and Henkle, assignors.)
- International Speed Register Co. (See Henkle and De La Monte, assignors.)
- International Steam Pump Company. (See Lampman and Kittelberger, assignors.)
- International Steam Pump Company. (See McLeod, W. C., assignor.)
- International Tag Company. (See Seaton and Travis, assignors.)
- International Telegraph Construction Company. (See Shoemaker, H., assignor.)
- International Text Book Company. (See Tanner and Griffin, assignors.)
- International Text Book Company. (See Tanner and Jones, assignors.)
- International Time Recording Company of New York. (See Larrabee, C. E., assignor.)
- International Vending Machine Company. (See Schmidt, J., assignor.)
- International Vending Machine Company. (See Schmitt, E. D., assignor.)
- Internationale Bohrgesellschaft A. G., Firm of. (See Schott, W., assignor.)
- Interstate Supply Company. (See Hansen, R., assignor.)
- Inventors and Investors Corporation. (See Holland, H. J., assignor.)
- Inventors Manufacturing Company. (See Peterson, C. J., assignor.)
- Inwood, R. G., *et al.* (See Flora, C. P., assignor.)
- Inwood, R. G., assignor to National Wire Bound Box Company, South Bend, Ind. Machine for making wire-bound box-blanks. No. 913,958; Mar. 2; Sp. p. 630; Gaz. vol. 140; p. 99.
- Inwood, R. G., and C. C. Chapman, assignors to National Wire Bound Box Co., South Bend, Ind. Machine for making wire-bound boxes. No. 913,896; Mar. 2; Sp. p. 486; Gaz. vol. 140; p. 78.
- Ionides, A. G., Leicester, England. Automatic fountain. No. 914,419; Mar. 9; Sp. p. 1625; Gaz. vol. 140; p. 278.
- Ionides, A. G., Leicester, England. Construction of jets. No. 944,440; Dec. 28; Sp. p. 5165; Gaz. vol. 149; p. 906.
- Iowa Washing Machine Company. (See Schoonover, W. J., assignor.)
- Ippolito, N. B., Pittsburg, Pa. Safety-lamp. No. 909,415; Jan. 12; Sp. p. 1994; Gaz. vol. 138; p. 354.
- Ippolito, N. B., Pittsburg, Pa. Safety-lamp. No. 909,416; Jan. 12; Sp. p. 1995; Gaz. vol. 138; p. 354.
- Ippolito, N. B., Pittsburg, Pa. Safety attachment for tanks or cans. No. 928,660; July 20; Sp. p. 4075; Gaz. vol. 144; p. 710.
- Ireland, D. M., Detroit, Mich. Detachable bracket. No. 942,564; Dec. 7; Sp. p. 1119; Gaz. vol. 149; p. 182.
- Ireland, L., Fredericktown, Ohio. Road-grader. No. 910,384; Jan. 19; Sp. p. 3989; Gaz. vol. 138; p. 716.
- Ireland, W. C. L., and A. W. Werkiser, Norristown, Pa. Toy. No. 934,615; Sept. 21; Sp. p. 3315; Gaz. vol. 146; p. 577.
- Irino, S., Salt Lake City, Utah. Rotary measuring device. No. 919,016; Apr. 20; Sp. p. 4275; Gaz. vol. 141; p. 743.
- Irish, C. J., *et al.* (See Shelburne, J. O., assignor.)
- Irish, J. F., Milton, Mass. Calipers. No. 921,407; May 11; Sp. p. 2708; Gaz. vol. 142; p. 465.
- Irish, L. D., Mason, Mich. Mold. No. 924,553; June 8; Sp. p. 3133; Gaz. vol. 143; p. 511.
- Iron City Sanitary Manufacturing Company. (See Lose, W. H., assignor.)
- Iron City Sanitary Manufacturing Company. (See Nesbitt, C. B., assignor.)
- Iron City Tool Works. (See Konold, G. F., assignor.)
- Iron & Russell Company. (See Goddard, E. S., assignor.)
- Ironside, M. C., Kansas City, Kans. Car-coupling. No. 921,707; May 18; Sp. p. 3328; Gaz. vol. 142; p. 592.
- Iroquois Machine Company. (See Horton, J. A., assignor.)
- Irven, W. L., and M. O'Brien, San Francisco, Cal. Reducing-mill. No. 934,918; Sept. 21; Sp. p. 3902; Gaz. vol. 146; p. 677.
- Irvin, A. L., New York, N. Y. Manifold envelop-check. No. 927,543; July 13; Sp. p. 1725; Gaz. vol. 144; p. 308.
- Irving, I. H. (See Lagergren, C., assignor.)
- Irving, J. A., New York, N. Y. Pipe. No. 941,019; Nov. 23; Sp. p. 5692; Gaz. vol. 148; p. 961.
- Irving, J. A., Philadelphia, Pa., assignor to Wizard Patent Developing Company, New York, N. Y. Toy top. No. 925,479; June 22; Sp. p. 4995; Gaz. vol. 143; p. 882.
- Irving, J. A., Bridgeport, Conn., assignor to Wizard Patent Developing Company. Tobacco-pipe. No. 937,073; Oct. 19; Sp. p. 3057; Gaz. vol. 147; p. 537.

*Alphabetical list of patentees—Continued.*

- Irving, J. B., Balmacneil, Ballinluig, Scotland. Composition for making an insecticide. No. 934,533; Sept. 21; Sp. p. 3141; Gaz. vol. 146; p. 548.
- Irving, J. E., Sault Ste. Marie, Ontario, Canada. Tobacco-pipe. No. 926,873; July 6; Sp. p. 355; Gaz. vol. 144; p. 57.
- Irving, J. E., Sault Ste. Marie, Ontario, Canada. Tobacco-pipe. No. 939,134; Nov. 2; Sp. p. 1453; Gaz. vol. 148; p. 236.
- Irwin, F. L., assignor to Ralston Steel Car Company, Columbus, Ohio. Carline-reinforcing construction. No. 913,141; Feb. 23; Sp. p. 4372; Gaz. vol. 139; p. 790.
- Irwin, F. L., assignor to Ralston Steel Car Company, Columbus, Ohio. Car-bolster-reinforcing construction. No. 913,143; Feb. 23; Sp. p. 4376; Gaz. vol. 139; p. 790.
- Irwin, F. L., and J. E. Tesseyman, assignors to Ralston Steel Car Company, Columbus, Ohio. Box-car construction. No. 913,142; Feb. 23; Sp. p. 4373; Gaz. vol. 139; p. 790.
- Irwin, F. L., assignor, by mesne assignments, to Ralston Steel Car Company, Columbus, Ohio. Operating device for dump-car doors. (Reissue.) No. 12,981; June 29; Sp. p. 7534; Gaz. vol. 143; p. 1326.
- Irwin, G. E., *et al.* (See Gaskill, J. L., assignor.)
- Irwin, G. H., and F. Knowlson, Lindsay, Ontario, Canada. Sand-valve. No. 927,544; July 13; Sp. p. 1727; Gaz. vol. 144; p. 308.
- Irwin, G. M., East Orange, N. J. Toilet article. No. 918,053; Apr. 13; Sp. p. 2225; Gaz. vol. 141; p. 400.
- Irwin, G. M., East Orange, N. J. Toilet article. No. 920,147; May 4; Sp. p. 110; Gaz. vol. 142; p. 17.
- Irwin, H. E., assignor of one-half to J. P. Irwin, Galesburg, Ill. Seat. No. 920,873; May 4; Sp. p. 1602; Gaz. vol. 142; p. 255.
- Irwin, J., Pittsburg, Pa. Pliers. No. 924,357; June 8; Sp. p. 2751; Gaz. vol. 143; p. 448.
- Irwin, J. P. (See Irwin, H. E., assignor.)
- Irwin, R. E. (See Links and Irwin.)
- Irwin, W. I., Sulphur Springs, Tex. Peach pitter and slicer. No. 943,193; Dec. 14; Sp. p. 2499; Gaz. vol. 149; p. 424.
- Irwin, W. J. (See Campbell, T. S., assignor.)
- Isaacs, H., Greenfield, Mass. Pie-plate attachment. No. 941,074; Nov. 23; Sp. p. 5802; Gaz. vol. 148; p. 979.
- Isaacs, J. (See Orkin and Isaacs.)
- Isaacson, R. J. (See Sanderson, Isaacson, and Sanderson.)
- Isbell, C. W., New York, N. Y. Retort for the manufacture of illuminating-gas. No. 942,501; Dec. 7; Sp. p. 998; Gaz. vol. 149; p. 160.
- Isbell, C. W., New York, N. Y. Retort for the manufacture of illuminating-gas. No. 942,858; Dec. 7; Sp. p. 1720; Gaz. vol. 149; p. 279.
- Isenberg, D. W., *et al.* (See Ellery, S., assignor.)
- Isenberg, G. A. (See Lier, P., assignor.)
- Isgrig, G. F., assignor of one-fourth to A. A. Schierman and one-fourth to W. Prott, St. Louis, Mo. Carbureter. No. 929,135; July 27; Sp. p. 6044; Gaz. vol. 144; p. 896.
- Isherwood, P. C. C., Harrow, England. Treatment of refractory zinc-lead ores. No. 925,190; June 15; Sp. p. 4458; Gaz. vol. 143; p. 761.
- Ishman, F., assignor of one-half to J. Duda, Martins Ferry, Ohio. Smoke and cinder conveyer for locomotives and trains. No. 917,730; Apr. 6; Sp. p. 1495; Gaz. vol. 141; p. 262.
- Ishøy, F., assignor to Aktieselskabet Kaptajn Ishøy's Ny Skibstype, Copenhagen, Denmark. Means for propelling vessels. No. 923,123; May 25; Sp. p. 6255; Gaz. vol. 142; p. 1082.
- Isidor, J. S., Newark, N. J., assignor to R. Neumann Hardware Co. Bag-frame fastener. No. 925,702; June 22; Sp. p. 5444; Gaz. vol. 143; p. 953.
- Isidor, J. S., Newark, N. J., assignor to R. Neumann Hardware Co. Bag-frame fastener. No. 928,661; July 20; Sp. p. 4076; Gaz. vol. 144; p. 710.
- Isidor, J. S., Newark, N. J., assignor to R. Neumann Hardware Co. Bag-fastener. No. 943,937; Dec. 21; Sp. p. 4099; Gaz. vol. 149; p. 710.
- Iske, A. and A., Lancaster, Pa. Device for holding fire-alarm keys. No. 931,123; Aug. 17; Sp. p. 3155; Gaz. vol. 145; p. 553.
- Isler, M., Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthracene dye and making same. No. 922,282; May 18; Sp. p. 4498; Gaz. vol. 142; p. 780.
- Isler, M., Mannheim, A. Lüttringhaus, and H. von Diesbach, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Halogenated naphthanthraquinone and making same. No. 941,320; Nov. 23; Sp. p. 6333; Gaz. vol. 148; p. 1059.
- Isler, M. H., Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthracene dye and making same. No. 909,800; Jan. 12; Sp. p. 2753; Gaz. vol. 138; p. 485.
- Isler, M. H., Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthracene dye and making same. No. 929,442; July 27; Sp. p. 5677; Gaz. vol. 144; p. 997.
- Isler, M. H., Mannheim, H. Wolff, Ludwigshafen-on-the-Rhine, and F. Kafer, Mannheim, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthracene dye and making same. No. 929,443; July 27; Sp. p. 5678; Gaz. vol. 144; p. 997.
- "Isola," Gesellschaft für Wärme & Kälte Isolierung M. B. H. (See Gumbert, M., assignor.)
- Israel, F. M., Worcester, Mass. Floor-scraper. No. 935,259; Sept. 28; Sp. p. 4590; Gaz. vol. 146; p. 816.
- Israel, H. W., Waukesha, Wis., assignor to Modern Steel Structural Company. Trolley for traveling cranes. No. 935,514; Sept. 28; Sp. p. 5118; Gaz. vol. 146; p. 899.
- Ito, S. W., San Francisco, Cal. Electric attachment-plug. No. 938,238; Oct. 26; Sp. p. 5526; Gaz. vol. 147; p. 944.
- Ittner, A. F. (See Maxwell, W. S., assignor.)
- Ivatts, E. A., assignor to Compagnie Generale de Phonographes, Cinematographes & Appareils de Precision, Paris, France. Machine for coloring kinematographic films. No. 923,432; June 1; Sp. p. 720; Gaz. vol. 143; p. 107.
- Ivatts, E. A., assignor to Compagnie Generale de Phonographes Cinematographes et Appareils de Precision, Paris, France. Kinematograph and like instrument. No. 939,135; Nov. 2; Sp. p. 1454; Gaz. vol. 148; p. 237.
- Iver-Johnson Sporting Goods Company. (See Frey, H. H., assignor.)
- Ivers, C. H., St. Louis, Mo. Identification means for cotton-bales. No. 930,671; Aug. 10; Sp. p. 2154; Gaz. vol. 145; p. 376.
- Iversen, L., West Homestead, assignor to Mesta Machine Company, Pittsburg, Pa. Coupling device. No. 942,780; Dec. 7; Sp. p. 1546; Gaz. vol. 149; p. 254.
- Iverson, C., Boulder Creek, Cal. Swimming-glove. No. 942,262; Dec. 7; Sp. p. 498; Gaz. vol. 149; p. 78.
- Ives, F. E., Woodcliff-on-Hudson, N. J. Self-playing musical instrument. No. 908,865; Jan. 5; Sp. p. 900; Gaz. vol. 138; p. 142.
- Ives, F. E., Weehawken, N. J. Photometer. No. 914,282; Mar. 2; Sp. p. 1335; Gaz. vol. 140; p. 207.
- Ives, F. E., Weehawken, N. J. Film-pack for three-color photography. No. 927,244; July 6; Sp. p. 1122; Gaz. vol. 144; p. 182.
- Ives, H. C., assignor to Ives Manufacturing Corporation, Bridgeport, Conn. Dome for toy railway-stations. No. 935,110; Sept. 28; Sp. p. 4313; Gaz. vol. 146; p. 769.
- Ives Manufacturing Corporation. (See Ives, H. C., assignor.)
- Iveson, A. E., Gainsborough, and A. R. Wilson, Brighton, England. Cooling apparatus. No. 916,319; Mar. 23; Sp. p. 5389; Gaz. vol. 140; p. 957.
- Ivins, Dietz & Metzger Company. (See Magee, H. I., assignor.)
- Ivins, Dietz & Metzger Company. (See Rochelle, F. W., assignor.)
- Ivory, J. C., Dolgevill, Cal. Spring-heel shoe. No. 929,136; July 27; Sp. p. 5046; Gaz. vol. 144; p. 896.
- Ivory, J. W. (See Carleton, S. S., assignor.)
- Ivory, J. W. (See Lee, A. P., assignor.)
- Ivory, J. W., Philadelphia, Pa. Matrix-retainer. No. 911,307; Feb. 2; Sp. p. 561; Gaz. vol. 139; p. 96.
- Ivory, J. W., Philadelphia, Pa. Artificial tooth. No. 911,398; Feb. 2; Sp. p. 731; Gaz. vol. 139; p. 126.
- Ivory, J. W., Philadelphia, Pa. Artificial tooth. No. 936,903; Oct. 12; Sp. p. 2712; Gaz. vol. 147; p. 452.
- Ivory, J. W., Philadelphia, Pa. Matrix-retainer. No. 943,353; Dec. 14; Sp. p. 2846; Gaz. vol. 149; p. 479.
- Ivory, J. W., Philadelphia, Pa. Artificial tooth. No. 943,354; Dec. 14; Sp. p. 2848; Gaz. vol. 149; p. 479.
- Iwan, A. J., Marshfield, Wis. Table. No. 932,552; Aug. 31; Sp. p. 6182; Gaz. vol. 145; p. 1072.
- Iwan, W. L., Streator, Ill. Pipe-hanger. No. 911,877; Feb. 9; Sp. p. 1661; Gaz. vol. 139; p. 308.
- Iwan, W. L., Streator, Ill. Spade. No. 932,866; Aug. 31; Sp. p. 6843; Gaz. vol. 145; p. 1174.
- Iwanami, T., Washington, D. C. Locomotive-ash-pan cleaner. No. 932,553; Aug. 31; Sp. p. 6183; Gaz. vol. 145; p. 1072.
- J. Lynam Manufacturing Company. (See Lynam, J. E., assignor.)
- J. Spaulding & Sons Co. (See Lancey, R. A., assignor.)
- J. Stevens Arms & Tool Company. (See Lewis, G. S., assignor.)
- J. Stevens Arms & Tool Company. (See Savage, A. J., assignor.)
- J. Thompson & Sons Manufacturing Company. (See Burger, L. F., assignor.)
- J. A. Engel & Co. (See Feldt, F. J., assignor.)
- J. A. Fay & Egan Company. (See Meyers, J. J., assignor.)
- J. A. Fay & Egan Company. (See Robinson and Meyers, assignors.)
- J. A. Fay & Egan Company. (See Thomas and Solem, assignors.)
- J. A. Folger & Co. (See Hoyt, W. H., assignor.)
- J. B. Colt Company. (See Goodyear, N., assignor.)
- J. B. Foote Foundry Company. (See Walter, C. R., assignor.)



*Alphabetical list of patentees—Continued.*

- J. B. King & Co. (See King, G. R., assignor.)  
 J. B. King & Co., *et al.* (See Mumford, J. A., assignor.)  
 J. B. Rice Seed Company. (See Collins, W. E., assignor.)  
 J. & C. Fischer. (See Mayer, J. T., assignor.)  
 J. C. Prims Machinery Company. (See Prims, J. C., assignor.)  
 J. D. Riedel Aktiengesellschaft. (See Gans, R., assignor.)  
 J. E. Lonergan Company. (See Hudson, M. A., assignor.)  
 J. E. Mergott Company. (See Hering and Fuller, assignors.)  
 J. G. Brill Co. (See Adams, W. S., assignor.)  
 J. G. Brill Co. (See Bole, S. T., assignor.)  
 J. G. Brill Co. (See Bucknam, E. S., assignor.)  
 J. G. Brill Company. (See Benjamin, C. W., assignor.)  
 J. G. Brill Company. (See Curwen, S. M., assignor.)  
 J. G. Brill Company. (See Curwen and Smith, assignors.)  
 J. G. Brill Company. (See Haddock, H. E., assignor.)  
 J. G. Brill Company. (See Howson, H., assignor.)  
 J. G. Brill Company. (See Kohler, G. B., assignor.)  
 J. G. Brill Company. (See Mackle, W. J., assignor.)  
 J. G. Brill Company. (See McWhirter, J. S., assignor.)  
 J. G. Brill Company. (See Naulty, T. J., assignor.)  
 J. G. Brill Company. (See Pickles, C. K., assignor.)  
 J. H. Bunnell and Company. (See Ghegan, J. J., assignor.)  
 J. H. Day Company. (See Tucker, C. G., assignor.)  
 J. H. Matthews & Co. (See Matthews, T. O., assignor.)  
 J. H. Sager Company. (See Sager, J. H., assignor.)  
 J. H. White Manufacturing Co. (See White, E. L., assignor.)  
 J. H. Winterbotham & Sons. (See Schubert, O., assignor.)  
 J. I. Case Plow Works. (See Michael, C. W., assignor.)  
 J. L. Schureman Co. (See Anderson, C. J., assignor.)  
 J. L. Schureman Company. (See Schureman, J. L., assignor.)  
 J. L. Thomson Mfg. Co. (See Havener, A. R., assignor.)  
 J. M. Dodge Company. (See Titcomb, G. E., assignor.)  
 J. M. Robinson Manufacturing Company. (See Frey, C. N., assignor.)  
 J. R. Clark Company. (See Kalgren, J. E., assignor.)  
 J. S. McDonald Company. (See Hansen, P., assignor.)  
 J. T. Brett Grain Saver Co. (See Sonnichsen, A. M., assignor.)  
 J. V. Reed. (See Knobel, A., assignor.)  
 J. W. Reedy Elevator Manufacturing Company. (See Forslund, H. W., assignor.)  
 J. W. Sefton Manufacturing Company. (See Reber, J. G., assignor.)  
 J. W. York and Sons. (See Butler, E. J., assignor.)  
 J. W. York and Sons Company. (See Dement, I. S., assignor.)  
 Jabez Burns & Sons. (See Burns, R., assignor.)  
 Jablonovsky, S., Bridgeport, Conn. Adjustable window-grate. No. 942,502; Dec. 7; Sp. p. 1001; Gaz. vol. 149; p. 161.  
 Jabs, A., Zurich, Switzerland. Gas-producer. No. 944,332; Dec. 28; Sp. p. 4926; Gaz. vol. 149; p. 868.  
 Jaccard, P. E., Camden, N. J. Cutting-machine. No. 944,266; Dec. 28; Sp. p. 4777; Gaz. vol. 149; p. 845.  
 Jachimovicz, S., Berkeley, Cal. Valve mechanism for gas-engines. No. 911,992; Feb. 9; Sp. p. 1977; Gaz. vol. 139; p. 347.  
 Jack, E. G. (See Claypoole, W. B., assignor.)  
 Jack, H. M., Tuscarora Indian Reservation, Niagara county, N. Y. Spreading attachment for plows. No. 941,369; Nov. 30; Sp. p. 6446; Gaz. vol. 148; p. 1098.  
 Jack, M. (See Hillebrand and Jack.)  
 Jack, R. E., assignor to L. Plate, Milwaukee, Wis. Automatic steam-washer. No. 940,694; Nov. 23; Sp. p. 4995; Gaz. vol. 148; p. 852.  
 Jacka, E. V., New York, N. Y. Registering device for passenger-conveying vehicles. No. 930,761; Aug. 10; Sp. p. 2343; Gaz. vol. 145; p. 406.  
 Jacklin, S. (See Snyder and Jacklin.)  
 Jackman, S. E., New York, N. Y. Locking device for seat-guards. No. 916,157; Mar. 23; Sp. p. 5098; Gaz. vol. 140; p. 902.  
 Jackboice, E. J., and R. M. Gleason, Grand Rapids, Mich. Sand-belt machine. No. 933,305; Sept. 7; Sp. p. 617; Gaz. vol. 146; p. 96.  
 Jacks, D., Marianna, Ark. Trace-supporting back-band buckle. No. 932,393; Aug. 24; Sp. p. 5830; Gaz. vol. 145; p. 995.  
 Jackson, A., *et al.* (See McDonald, F. B., assignor.)  
 Jackson, A. A. (See Carey, J. F., assignor.)  
 Jackson, A. C. (See Collett and Jackson.)  
 Jackson, A. F., New York, N. Y. Clutch mechanism. No. 923,180; June 1; Sp. p. 130; Gaz. vol. 143; p. 21.  
 Jackson, A. V. and W. H., Pinole, Cal. Chair attachment. No. 924,554; June 8; Sp. p. 3134; Gaz. vol. 143; p. 511.  
 Jackson, A. V. and W. H., Pinole, Cal. Chair attachment. No. 939,841; Nov. 9; Sp. p. 3059; Gaz. vol. 148; p. 505.  
 Jackson, B. W., New York, N. Y. Meat-clamp. No. 923,357; June 1; Sp. p. 572; Gaz. vol. 143; p. 82.  
 Jackson, C., Madison, Wis., assignor to Northern Electrical Manufacturing Company. Rock-drill. No. 917,074; Apr. 6; Sp. p. 223; Gaz. vol. 141; p. 41.  
 Jackson, C., Madison, Wis., assignor to Northern Electrical Manufacturing Company. Rock-drill. No. 917,731; Apr. 6; Sp. p. 1497; Gaz. vol. 141; p. 262.  
 Jackson, C., assignor to B. Y. Shearer, W. M. Leinbach, W. L. Shearer, and P. K. Leinbach, Reading, Pa. Washing-machine. No. 927,727; July 13; Sp. p. 2131; Gaz. vol. 144; p. 369.  
 Jackson, C., assignor to B. Y. Shearer, W. M. Leinbach, W. L. Shearer, and P. K. Leinbach, Reading, Pa. Stand for washtubs. No. 927,728; July 13; Sp. p. 2132; Gaz. vol. 144; p. 370.  
 Jackson, C. D., Cincinnati, Ohio. Self-watering flower-vase. No. 927,245; July 6; Sp. p. 1124; Gaz. vol. 144; p. 183.  
 Jackson, C. N., Canby, Cal. Thill-coupling. No. 914,575; Mar. 9; Sp. p. 1934; Gaz. vol. 140; p. 330.  
 Jackson, C. O., Fairmont, W. Va. Trolley apparatus. No. 944,869; Dec. 28; Sp. p. 6128; Gaz. vol. 149; p. 1053.  
 Jackson, C. W., San Diego, assignor of one-half to I. A. Lothian, Los Angeles, Cal. Cooking and heating utensil. No. 924,162; June 8; Sp. p. 2325; Gaz. vol. 143; p. 382.  
 Jackson Cushion Edge Company. (See Hampton, F. H., assignor.)  
 Jackson Cushion Edge Company. (See Hampton, Franz, and Smith, assignors.)  
 Jackson Cushion Spring Co. (See Smith and Sanford, assignors.)  
 Jackson Cushion Spring Company. (See Rutson, C., assignor.)  
 Jackson Cushion Spring Company. (See Shoemaker, G. C., assignor.)  
 Jackson Cushion Spring Company. (See Smith, W. R., assignor.)  
 Jackson, D. A., New York, N. Y. Game apparatus. No. 934,179; Sept. 14; Sp. p. 2468; Gaz. vol. 146; p. 407.  
 Jackson, D. B., Clarendon, Ark. Mixing apparatus. No. 941,075; Nov. 23; Sp. p. 5803; Gaz. vol. 148; p. 979.  
 Jackson, D. C., Brookline, Mass. Electric controlling system. No. 911,878; Feb. 9; Sp. p. 1661; Gaz. vol. 139; p. 308.  
 Jackson, D. C., Madison, Wis. Alternating-current dynamo-electric machine. No. 924,991; June 15; Sp. p. 4073; Gaz. vol. 143; p. 693.  
 Jackson, D. C., Madison, Wis. Dynamo-electric machine. No. 924,992; June 15; Sp. p. 4076; Gaz. vol. 143; p. 694.  
 Jackson, D. C., Madison, Wis. Circuit for propagating wave-forms. No. 936,538; Oct. 12; Sp. p. 1987; Gaz. vol. 147; p. 328.  
 Jackson, D. C., assignor to D. C. and W. B. Jackson, Madison, Wis. Electric-motor control. No. 923,973; June 8; Sp. p. 1926; Gaz. vol. 143; p. 321.  
 Jackson, D. C., assignor to D. C. and W. B. Jackson, Madison, Wis. Electric meter. No. 928,521; July 20; Sp. p. 3781; Gaz. vol. 144; p. 664.  
 Jackson, D. C., assignor to D. C. and W. B. Jackson, Madison, Wis. Electrical measuring instrument. No. 929,854; Aug. 3; Sp. p. 493; Gaz. vol. 145; p. 79.  
 Jackson, D. C., assignor to D. C. and W. B. Jackson, Madison, Wis. Train-lighting system. No. 931,613; Aug. 17; Sp. p. 4167; Gaz. vol. 145; p. 715.  
 Jackson, D. C. and W. B. (See Jackson, D. C., assignor.)  
 Jackson, D. M., and J. T. Aiken, Bloomington, Ill. Furnace. No. 909,801; Jan. 12; Sp. p. 2754; Gaz. vol. 138; p. 485.  
 Jackson, E. E. (See Aide, W. H., assignor.)  
 Jackson, E. E., Newton, Kans. Weed-exterminator. No. 919,017; Apr. 20; Sp. p. 4277; Gaz. vol. 141; p. 748.  
 Jackson, E. R., Maywood, Ill. Sliding door. No. 921,708; May 18; Sp. p. 3331; Gaz. vol. 142; p. 593.  
 Jackson, F. (See Jackson, J. W. and F.)

*Alphabetical list of patentees—Continued.*

- Jackson, F. E., Minas de Rio Tinto, Spain. Kite. No. 919,436; Apr. 27; Sp. p. 5317; Gaz. vol. 141; p. 919.  
 Jackson, F. E., Minas de Rio Tinto, Spain. Kite-parachute. No. 923,181; June 1; Sp. p. 132; Gaz. vol. 143; p. 21.  
 Jackson, F. H. (See Bailey and Jackson.)  
 Jackson, F. H., assignor to Byron Jackson Iron Works, West Berkeley, Cal. Dredger-pump. No. 914,283; Mar. 2; Sp. p. 1338; Gaz. vol. 140; p. 207.  
 Jackson, F. M. (See Caldwell, J. S., assignor.)  
 Jackson, F. R., assignor of one-half to F. L. Rowell, Oberlin, Ohio. Holder for mail-matter. No. 920,148; May 4; Sp. p. 112; Gaz. vol. 142; p. 17.  
 Jackson Fence Company (See Garlinghouse, B. A., assignor.)  
 Jackson, G., Cleveland, Ohio. Nozzle. No. 924,665; June 15; Sp. p. 3379; Gaz. vol. 143; p. 582.  
 Jackson, G. A., assignor of one-fourth to W. M. Dickson, one-fourth to D. Rose, and one-fourth to M. H. Knowles, Sewickley, Pa. Muffler for explosive-engines. No. 927,246; July 6; Sp. p. 1127; Gaz. vol. 144; p. 183.  
 Jackson, G. E., Newark, Ill. Crate. No. 912,682; Feb. 16; Sp. p. 3433; Gaz. vol. 139; p. 613.  
 Jackson, G. E., Newark, Ill. Self-tying baling-press. No. 919,585; Apr. 27; Sp. p. 5646; Gaz. vol. 141; p. 971.  
 Jackson, G. E., South Memphis, Tenn. Adjustable carpet and matting holder. No. 928,607; July 20; Sp. p. 3970; Gaz. vol. 144; p. 693.  
 Jackson, G. M. (See Nulf and Jackson.)  
 Jackson, G. M., St. Louis, Mo. Stock-marker. No. 915,355; Mar. 16; Sp. p. 3500; Gaz. vol. 140; p. 611.  
 Jackson, G. W., Chicago, Ill. Marine aerial tramway. No. 916,158; Mar. 23; Sp. p. 5100; Gaz. vol. 140; p. 903.  
 Jackson, G. W., Chicago, Ill. Submarine pier. No. 916,159; Mar. 23; Sp. p. 5104; Gaz. vol. 140; p. 903.  
 Jackson, G. W., Chicago, Ill. Arrangement of subway terminal loops. No. 916,160; Mar. 23; Sp. p. 5107; Gaz. vol. 140; p. 903.  
 Jackson, G. W., Chicago, Ill. Underground subway for street-railways, &c. No. 922,768; May 25; Sp. p. 5500; Gaz. vol. 142; p. 967.  
 Jackson, G. W., Chicago, Ill. Bulkhead for tunnels and the like. No. 940,323; Nov. 16; Sp. p. 4169; Gaz. vol. 148; p. 703.  
 Jackson, H. (See Gass and Jackson.)  
 Jackson, H., *et al.* (See Miller, D. C., assignor.)  
 Jackson, H. O., assignor to Jackson Wheel Company, Chicago, Ill. Vehicle-wheel. No. 920,468; May 4; Sp. p. 756; Gaz. vol. 142; p. 122.  
 Jackson, H. O., assignor to Jackson Wheel Company, Chicago, Ill. Vehicle-wheel. No. 920,469; May 4; Sp. p. 758; Gaz. vol. 142; p. 122.  
 Jackson, H. O., and H. C. Vizens, Chicago, Ill., assignors, by mesne assignments, to T. McNaughton, London, England. Electric self-winding clock. No. 909,417; Jan. 12; Sp. p. 1996; Gaz. vol. 138; p. 354.  
 Jackson, H. O., and H. C. Vizens, Chicago, Ill., assignors, by mesne assignments, to T. McNaughton, London, England. Electric second-ary clock. No. 909,418; Jan. 12; Sp. p. 1999; Gaz. vol. 138; p. 355.  
 Jackson, J., Hunter, N. Y. Door-fastening means. No. 912,378; Feb. 16; Sp. p. 2794; Gaz. vol. 139; p. 509.  
 Jackson, J., Hunter, N. Y. Door-bolt-operating means. No. 912,379; Feb. 16; Sp. p. 2795; Gaz. vol. 139; p. 509.  
 Jackson, J., Green Bay, Wis. Animal-trap. No. 938,239; Oct. 26; Sp. p. 5527; Gaz. vol. 147; p. 944.  
 Jackson, J. E., Xenia, Ohio. Wheel. No. 914,844; Mar. 9; Sp. p. 2502; Gaz. vol. 140; p. 418.  
 Jackson, J. E., assignor of three-fourths to J. E. Griffin, O. A. Shield, and J. Cunningham, Gallaway, Tenn. Harrow attachment for planters. No. 920,470; May 4; Sp. p. 760; Gaz. vol. 142; p. 123.  
 Jackson, J. F., Houghton, Mich. Disposing of tailing-sand and the like. No. 918,054; Apr. 13; Sp. p. 2227; Gaz. vol. 141; p. 400.  
 Jackson, J. H., Pittsburg, Pa. Enameled brick and tile. No. 919,018; Apr. 20; Sp. p. 4278; Gaz. vol. 141; p. 748.  
 Jackson, J. H., New York, N. Y. Meter-brick. No. 927,146; July 6; Sp. p. 929; Gaz. vol. 144; p. 150.  
 Jackson, J. L. (See Dair and Jackson.)  
 Jackson, J. W., Duncan, Okla. Churn-cover. No. 911,819; Feb. 9; Sp. p. 1561; Gaz. vol. 139; p. 290.  
 Jackson, J. W., Jacksonville, Ill. Cooling apparatus. No. 911,879; Feb. 9; Sp. p. 1664; Gaz. vol. 139; p. 309.  
 Jackson, J. W., Uhrichsville, Ohio. Automatic train-line coupling. No. 938,585; Nov. 2; Sp. p. 332; Gaz. vol. 148; p. 49.  
 Jackson, J. W., and J. A. Denver, Colo. Auxiliary starting device for automobiles. No. 921,995; May 18; Sp. p. 3925; Gaz. vol. 142; p. 686.  
 Jackson, M. A., and J. A. Bristow, Athens, Tex. Harrow attachment. No. 934,313; Sept. 14; Sp. p. 2718; Gaz. vol. 146; p. 451.  
 Jackson, M. C., Madison, Wis. Cereal food. No. 913,011; Feb. 23; Sp. p. 4111; Gaz. vol. 139; p. 746.  
 Jackson, M. E., Wilmington, Del. Fastener for shoes. No. 918,012; Feb. 23; Sp. p. 4111; Gaz. vol. 139; p. 476.  
 Jackson, O., Denver, Colo. Bicycle-stand. No. 924,074; June 8; Sp. p. 2113; Gaz. vol. 143; p. 353.  
 Jackson, R. M., La Habra, Cal. Illuminating device and adjustable supporting means therefor. No. 910,066; Jan. 19; Sp. p. 3288; Gaz. vol. 138; p. 606.  
 Jackson, R. P., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company. Multiple-voltage system of control. No. 911,011; Jan. 26; Sp. p. 5241; Gaz. vol. 138; p. 944.  
 Jackson, R. P., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Current-rectifying apparatus. No. 931,124; Aug. 17; Sp. p. 3156; Gaz. vol. 145; p. 553.  
 Jackson, R. P., and C. Aalborg, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Trolley. No. 932,554; Aug. 31; Sp. p. 6186; Gaz. vol. 145; p. 1072.  
 Jackson, R. S., Malvern, Ark. Saw-savage. No. 940,024; Nov. 16; Sp. p. 3460; Gaz. vol. 148; p. 598.  
 Jackson R. T., Jr., assignor of one-half to W. E. Bowie, Washington, D. C. Desk. No. 931,311; Aug. 17; Sp. p. 3590; Gaz. vol. 145; p. 618.  
 Jackson, S., Stockton, Cal. Means for administering air or gas. No. 920,955; May 11; Sp. p. 1764; Gaz. vol. 142; p. 813.  
 Jackson, S. S., assignor to Stafford Company, Readville, Mass. Differential filling-supply-gaging device for looms. No. 940,600; Nov. 16; Sp. p. 4774; Gaz. vol. 148; p. 795.  
 Jackson, T. (See Gordon, Jackson, and Andrews.)  
 Jackson, T. (See Hollas, Farnworth, and Jackson.)  
 Jackson, T., Kansas City, Kans. Railway-switch. No. 935,790; Oct. 5; Sp. p. 3994; Gaz. vol. 147; p. 18.  
 Jackson, T. C., Chicago, Ill. Metal sheet-piling. No. 922,769; May 25; Sp. p. 5504; Gaz. vol. 142; p. 968.  
 Jackson, W. B., *et al.* (See Jackson, D. C., assignor.)  
 Jackson, W. H. (See Jackson, A. V. and W. H.)  
 Jackson, W. L., Brookland, D. C. Drain or sewer pipe. No. 927,353; July 6; Sp. p. 1307; Gaz. vol. 144; p. 216.  
 Jackson, W. M., New York, N. Y. Attachment for artificial teeth upon bridgework. No. 921,709; May 18; Sp. p. 3332; Gaz. vol. 142; p. 593.  
 Jackson, W. S., Waterville, Me. Safety device for railway-cars. No. 926,334; June 29; Sp. p. 6809; Gaz. vol. 143; p. 1198.  
 Jackson, W. U., Heath Town, and J. E. Joseph, Aston Manor, near Birmingham, assignors to Weldless Steel Tube Co. Limited, Birmingham, England. Machinery for piercing metallic blooms or ingots. No. 916,875; Mar. 30; Sp. p. 6487; Gaz. vol. 140; p. 1159.  
 Jackson Wheel Company. (See Jackson, H. O., assignor.)  
 Jacky, C. A., and J. Rupp, Chilton, Wis. Harness-connector. No. 910,820; Jan. 26; Sp. p. 4899; Gaz. vol. 138; p. 884.  
 Jacky, C. A., and J. Rupp, Chilton, Wis. Harness-connector. No. 917,949; Apr. 13; Sp. p. 1992; Gaz. vol. 141; p. 362.  
 Jacob, A. (See Mueller and Jacob.)  
 Jacob, F. E., Chicago, Ill. Railway-crossing. No. 935,910; Oct. 5; Sp. p. 665; Gaz. vol. 147; p. 97.  
 Jacob, F. W., London, England. Machine for bottling liquids. No. 938,240; Oct. 26; Sp. p. 5529; Gaz. vol. 147; p. 945.  
 Jacob, H., Steglitz, near Berlin, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Ocular prism for base-line telemeters. No. 934,440; Sept. 21; Sp. p. 2971; Gaz. vol. 146; p. 518.  
 Jacob, R. F., Mobile, assignor to B. B. Hollomon, Selma, Ala., C. A. Wickersham, Atlanta, Ga., and O. T. Nelson and A. Moritz, Montgomery, Ala. Safety-lock for switch-stands. No. 921,544; May 11; Sp. p. 2972; Gaz. vol. 142; p. 511.  
 Jacobi, A. (See Kochenthal, Mock, and Jacobi.)  
 Jacobs, A., assignor to Jacobs Cigar Vendor Co., Kansas City, Mo. Coin-controlled mechanism for vending-machines. No. 943,551; Dec. 14; Sp. p. 3247; Gaz. vol. 149; p. 547.  
 Jacobs, A., assignor to Jacobs Cigar Vendor Co., Kansas City, Mo. Coin-controlled vending-machine. No. 943,552; Dec. 14; Sp. p. 3251; Gaz. vol. 149; p. 548.  
 Jacobs, A. I., assignor to Jacobs Manufacturing Company, Hartford, Conn. Chuck. No. 911,012; Jan. 26; Sp. p. 5245; Gaz. vol. 138; p. 945.  
 Jacobs, A. I., assignor to Jacobs Manufacturing Company, Hartford, Conn. Key-retainer. No. 926,491; June 29; Sp. p. 7082; Gaz. vol. 143; p. 1249.  
 Jacobs, A. I., assignor to Jacobs Manufacturing Company, Hartford, Conn. Chuck. No. 933,179; Sept. 7; Sp. p. 308; Gaz. vol. 146; p. 51.  
 Jacobs, B. F., Independence, assignor of one-fourth to H. G. Wilson, Kansas City, Mo. Boat-propelling mechanism. No. 939,028; Nov. 2; Sp. p. 1246; Gaz. vol. 148; p. 199.  
 Jacobs, C. C. (See Jacobs, W. F. and C. C.)  
 Jacobs, C. C., assignor to F. C. Austin Drainage Excavator Company, Chicago, Ill. Multiple excavator. No. 926,746; July 6; Sp. p. 82; Gaz. vol. 144; p. 12.  
 Jacobs, C. C., assignor to F. C. Austin Drainage Excavator Company, Chicago, Ill. Tandem excavator-shovel. No. 928,258; July 20; Sp. p. 3251; Gaz. vol. 144; p. 577.  
 Jacobs, C. F., Chicago, Ill. Bonding rails. No. 933,458; Sept. 7; Sp. p. 965; Gaz. vol. 146; p. 146.  
 Jacobs, C. F., Chicago, Ill. Uniting metal pieces. No. 933,459; Sept. 7; Sp. p. 968; Gaz. vol. 146; p. 146.  
 Jacobs, C. F., assignor to Jacobs Welding Company, Chicago, Ill. Welding and bonding rails and other metal pieces. No. 933,456; Sept. 7; Sp. p. 959; Gaz. vol. 146; p. 145.



*Alphabetical list of patentees—Continued.*

- Jacobs, C. F., assignor to Jacobs Welding Company, Chicago, Ill. Uniting rails and other metal pieces. No. 933,457; Sept. 7; Sp. p. 962; Gaz. vol. 146; p. 145.
- Jacobs, C. R., Pittsburg, Pa. Shirt-button. No. 911,880; Feb. 9; Sp. p. 1665; Gaz. vol. 139; p. 309.
- Jacobs Cigar Vendor Co. (See Jacobs, A., assignor.)
- Jacobs, F. (See Rosengarten, M., assignor.)
- Jacobs, F. M., Waynesburg, Pa. Screw-holder. No. 915,770; Mar. 23; Sp. p. 4390; Gaz. vol. 140; p. 779.
- Jacobs, F. M., Waynesburg, Pa. Detachable extension-handle for tools. No. 921,840; May 18; Sp. p. 3614; Gaz. vol. 142; p. 637.
- Jacobs, G., Des Moines, Iowa. Pneumatic tire. No. 921,710; May 18; Sp. p. 3333; Gaz. vol. 142; p. 593.
- Jacobs, G., Alliance, assignor to H. Frease, trustee, Canton, Ohio. Filing-cabinet. No. 922,589; May 25; Sp. p. 5129; Gaz. vol. 142; p. 910.
- Jacobs, G., Alliance, assignor to H. Frease, trustee, Canton, Ohio. Filing-cabinet. No. 922,590; May 25; Sp. p. 5132; Gaz. vol. 142; p. 910.
- Jacobs, G., assignor to H. Frease, trustee, Canton, Ohio. Filing-cabinet. No. 922,591; May 25; Sp. p. 5135; Gaz. vol. 142; p. 910.
- Jacobs, H. J., Buffalo, N. Y. Bed or box couch. No. 929,855; Aug. 3; Sp. p. 496; Gaz. vol. 145; p. 79.
- Jacobs, H. W. (See Shupert and Jacobs.)
- Jacobs, H. W., Topeka, Kans. Steam-superheater. No. 911,993; Feb. 9; Sp. p. 1980; Gaz. vol. 139; p. 347.
- Jacobs, H. W., Topeka, Kans. Track-laying apparatus. No. 934,728; Sept. 21; Sp. p. 3528; Gaz. vol. 146; p. 614.
- Jacobs, H. W., Topeka, Kans. Superheater. No. 934,729; Sept. 21; Sp. p. 3530; Gaz. vol. 146; p. 615.
- Jacobs, J., New York, N. Y. Clothes-line support. No. 914,049; Mar. 2; Sp. p. 852; Gaz. vol. 140; p. 132.
- Jacobs, J., Akron, Ohio. Ventilator. No. 927,147; July 6; Sp. p. 932; Gaz. vol. 144; p. 150.
- Jacobs, J. J., Chicago, Ill. Elastic link. No. 926,655; June 29; Sp. p. 7395; Gaz. vol. 143; p. 1304.
- Jacobs, L. (See Caldwell, O. C., assignor.)
- Jacobs, M., New York, N. Y. Self-locking nut and bolt. No. 922,482; May 25; Sp. p. 4904; Gaz. vol. 142; p. 874.
- Jacobs, M., assignor to Manhattan Screw & Stamping Works, New York, N. Y. Bunsen burner for incandescent gas-lamps. No. 928,453; July 20; Sp. p. 3652; Gaz. vol. 144; p. 643.
- Jacobs Manufacturing Company. (See Jacobs, A. I., assignor.)
- Jacobs, S. R., New York, N. Y. Carburetor for hydrocarbon-engines. No. 942,503; Dec. 7; Sp. p. 1003; Gaz. vol. 149; p. 161.
- Jacobs, W., New Orleans, La. Comb. No. 940,532; Nov. 16; Sp. p. 4633; Gaz. vol. 148; p. 773.
- Jacobs, W. F., Okawville, Ill. Adjusting device for grain-drills. No. 914,843; Mar. 9; Sp. p. 2501; Gaz. vol. 140; p. 418.
- Jacobs, W. F. and C. C., Ottawa, Ill. Excavating-machine. No. 937,373; Oct. 19; Sp. p. 3689; Gaz. vol. 147; p. 634.
- Jacobs, W. S., assignor of one-half to C. C. Clapp, Malden, Mass. Combined reducing-bushing and check-valve. No. 941,713; Nov. 30; Sp. p. 7191; Gaz. vol. 148; p. 1212.
- Jacobs Welding Company. (See Jacobs, C. F., assignor.)
- Jacobsen, J. M., Kansas City, Kans. Miter-box. No. 923,268; June 1; Sp. p. 324; Gaz. vol. 143; p. 51.
- Jacobsen, O. B., Aston, near Birmingham, assignor of one-half to Electric and Ordnance Accessories Company Limited, Birmingham, England. Blade of centrifugal fans. No. 939,136; Nov. 2; Sp. p. 1455; Gaz. vol. 148; p. 237.
- Jacobsen, S., Christiania, Norway. Apparatus for measuring fabrics and the like. No. 944,870; Dec. 28; Sp. p. 6130; Gaz. vol. 149; p. 1054.
- Jacobsen, S. J., San Francisco, Cal. Ornamental safety hat-pin. No. 913,643; Feb. 23; Sp. p. 5443; Gaz. vol. 139; p. 958.
- Jacobson-Brandow Company. (See Brandow, F. W., assignor.)
- Jacobson, C., et al. (See Stone, A. H., assignor.)
- Jacobson, C., Warren, Pa. Governor-controlling valve mechanism for gas-engines. No. 934,813; Sept. 21; Sp. p. 3692; Gaz. vol. 146; p. 642.
- Jacobson, C. L. (See Alger and Jacobson.)
- Jacobson, G. C., Lisbon, and C. Olson, McLeod, N. D. Cylinder-tooth. No. 918,857; Apr. 20; Sp. p. 3954; Gaz. vol. 141; p. 695.
- Jacobson, J., New York, N. Y. Sacristy combination-stand for Catholic churches. No. 920,576; May 4; Sp. p. 975; Gaz. vol. 142; p. 159.
- Jacobson, J., New York, N. Y., assignor to Weave-Print Company. Producing printing-plates. No. 926,121; June 29; Sp. p. 6349; Gaz. vol. 143; p. 1127.
- Jacobson, J., New York, N. Y., assignor to Weave-Print Company. Pattern-plate for reproducing designs and producing the same. No. 926,656; June 29; Sp. p. 7396; Gaz. vol. 143; p. 1304.
- Jacobson, O., Hamilton, Ohio. Electric protection system. No. 937,941; Oct. 26; Sp. p. 4884; Gaz. vol. 147; p. 843.
- Jacobson, P. L. (See Narum and Jacobson.)
- Jacobson, S., Chicago, Ill. Continuous baking-oven. No. 937,000; Oct. 12; Sp. p. 2896; Gaz. vol. 147; p. 483.
- Jacobson, V., et al. (See Ross, J., assignor.)
- Jacobus, W., Paterson, N. J. Nut-lock. No. 927,466; July 6; Sp. p. 1560; Gaz. vol. 144; p. 256.
- Jacoby, A. C. (See Harrison and Jacoby.)
- Jacques, A., Attleboro, Mass. Pendant. No. 939,510; Nov. 9; Sp. p. 2351; Gaz. vol. 148; p. 390.
- Jacques, C. A., assignor to Velocphone Company, New York, N. Y. Speed-indicator. No. 914,145; Mar. 2; Sp. p. 1046; Gaz. vol. 140; p. 165.
- Jäderborg, T. O. (See Deere and Jäderborg.)
- Jaeger, A. G., Omaha, Nebr. Lid-supporting display-box for cigars. No. 929,856; Aug. 3; Sp. p. 498; Gaz. vol. 145; p. 80.
- Jaeger, F., Suhl, Germany. Gun with breech-action. No. 928,608; July 20; Sp. p. 3971; Gaz. vol. 144; p. 693.
- Jaeger, F. H., St. Louis, Mo. Folding mop-wringer. No. 930,182; Aug. 3; Sp. p. 1177; Gaz. vol. 145; p. 191.
- Jaeger, H. J. (See Farkas and Jaeger.)
- Jaeger, N. E., Philadelphia, Pa. Dress-measuring device. No. 928,454; July 20; Sp. p. 3654; Gaz. vol. 144; p. 643.
- Jaehnig, F. H., Newark, N. J. Cluster-fixture for electric lamps. No. 921,408; May 11; Sp. p. 2709; Gaz. vol. 142; p. 466.
- Jaenichen, L., assignor to Standard Computing Scale Company, Detroit, Mich. Scale. No. 923,530; June 1; Sp. p. 926; Gaz. vol. 143; p. 143.
- Jaffe, E., Baltimore, Md. Negligée vest-shirt. No. 914,955; Mar. 9; Sp. p. 2700; Gaz. vol. 140; p. 454.
- Jagenberg, E., Dusseldorf, Germany. Machine for mounting sheets of paper or other material. No. 924,163; June 8; Sp. p. 2327; Gaz. vol. 143; p. 382.
- Jager, F., Chicago, Ill. Box. No. 927,800; July 13; Sp. p. 2277; Gaz. vol. 144; p. 394.
- Jäger, H. (See Weyel and Jäger.)
- Jagerspacher, C., assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Azo dye and making same. No. 916,161; Mar. 23; Sp. p. 5109; Gaz. vol. 140; p. 904.
- Jaggers, C. M., McAlester, Okla. Elastic heel for boots and shoes. No. 917,075; Apr. 6; Sp. p. 226; Gaz. vol. 141; p. 42.
- Jaggers, C. M., McAlester, Okla. Elastic heel for boots and shoes. No. 944,558; Dec. 28; Sp. p. 5459; Gaz. vol. 149; p. 948.
- Jagolin, J. J., Paterson, N. J. Trolley-pole guiding and finding device. No. 924,784; June 15; Sp. p. 3632; Gaz. vol. 143; p. 623.
- Jahansan, G., Cranston, assignor of one-third to L. F. Arnold and one-third to G. L. Titus, Providence, R. I. Faring-machine. No. 943,249; Dec. 14; Sp. p. 2617; Gaz. vol. 149; p. 443.
- Jahl, A. (See Feld and Jahl.)
- Jahn, A., Berlin, Germany. Writing-pen. No. 920,874; May 4; Sp. p. 1604; Gaz. vol. 142; p. 256.
- Jahn, E., Arnswalde, Germany. Centrifugal apparatus for separating purposes. No. 930,966; Aug. 10; Sp. p. 2779; Gaz. vol. 145; p. 472.
- Jahn, F. G., New York, assignor to International Postal Supply Company of New York, Brooklyn, N. Y. Printing mechanism. No. 929,951; Aug. 3; Sp. p. 697; Gaz. vol. 145; p. 111.
- Jahn, F. L., assignor to Watson and McDaniel Company, Philadelphia, Pa. Pressure-regulating valve. No. 917,443; Apr. 6; Sp. p. 963; Gaz. vol. 141; p. 167.
- Jahn, F. L., assignor to Watson and McDaniel Company, Philadelphia, Pa. Fluid-pressure regulator. No. 925,812; June 22; Sp. p. 5718; Gaz. vol. 143; p. 991.
- Jahnholz, H. M. C., Bordeaux, France. Tracing instrument. No. 933,759; Sept. 14; Sp. p. 1637; Gaz. vol. 146; p. 270.
- Jahnke, A. A., San Francisco, Cal. Fire-escape. No. 940,601; Nov. 16; Sp. p. 4778; Gaz. vol. 148; p. 796.
- Jahnke, A. A., assignor, by mesne assignments, to Incandescent Oil Lamp Company, San Francisco, Cal. Incandescent-lamp burner. No. 939,137; Nov. 2; Sp. p. 1457; Gaz. vol. 148; p. 237.
- Jahns, W., Offenbach-on-the-Main, Germany. Centrifugal regulator. No. 943,600; Dec. 14; Sp. p. 3341; Gaz. vol. 149; p. 563.
- Jakobson, M., New York, N. Y. Safety-cock for gas-burners. No. 919,019; Apr. 20; Sp. p. 4280; Gaz. vol. 141; p. 749.
- Jambas, J. G., and F. J. Stephens, Watertown, N. Y. Safety device for gas-fixtures. No. 917,303; Apr. 6; Sp. p. 714; Gaz. vol. 141; p. 122.
- Jámbor, A. and P., Bathbeach, N. Y. Automatic switchboard. No. 932,132; Aug. 24; Sp. p. 5332; Gaz. vol. 145; p. 909.
- Jámbor, P. (See Jámbor, A. and P.)
- James, B. C., East Liberty, Ohio. Bolt and nut-lock. No. 929,223; July 27; Sp. p. 5211; Gaz. vol. 144; p. 924.
- James B. Clow & Sons. (See Miller, J., assignor.)
- James, C. (See Roberts and James.)
- James, C. R., Boston, Mass., assignor to Chapman Ball Bearing Company. Ball-bearing. No. 920,149; May 4; Sp. p. 113; Gaz. vol. 142; p. 17.
- James, D., Chicago, Ill. Photographic developing apparatus. No. 909,090; Jan. 5; Sp. p. 1346; Gaz. vol. 138; p. 216.
- James, D., Chicago, Ill. Photographic developing apparatus. No. 909,091; Jan. 5; Sp. p. 1348; Gaz. vol. 138; p. 216.
- James, D., Coffeyville, Kans. Gate. No. 934,814; Sept. 21; Sp. p. 3695; Gaz. vol. 146; p. 642.
- James, D., Coffeyville, Kans. Oil-cup for planes. No. 940,324; Nov. 16; Sp. p. 4171; Gaz. vol. 148; p. 703.

*Alphabetical list of patentees—Continued.*

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- James, D. B., Jackson, Tenn. Artificial leg. No. 912,130; Feb. 9; Sp. p. 2260; Gaz. vol. 139; p. 391.
- James, D. H., Toledo, Ohio. Vehicle. No. 931,614; Aug. 17; Sp. p. 4174; Gaz. vol. 145; p. 715.
- James, D. O., Chicago, Ill. Speed-changing device. No. 941,925; Nov. 30; Sp. p. 7639; Gaz. vol. 148; p. 1286.
- James, E., assignor to James Manufacturing Company, Cleveland, Ohio. Fluid-transmission apparatus. No. 929,091; July 27; Sp. p. 4938; Gaz. vol. 144; p. 880.
- James, E., assignor to James Manufacturing Company, Cleveland, Ohio. Method of and apparatus for interiorly coating tubes. No. 938,489; Nov. 2; Sp. p. 92; Gaz. vol. 148; p. 15.
- James, E. B., Cordele, Ga. Plow. No. 931,125; Aug. 17; Sp. p. 3159; Gaz. vol. 145; p. 553.
- James, F., Mitchell, S. D. Measuring apparatus. No. 909,188; Jan. 12; Sp. p. 1568; Gaz. vol. 138; p. 282.
- James, G. L. (See Koster, N., assignor.)
- James, G., S. Benson, and W. Wilson, Chicago, Ill. Detachable pipe or hose coupling. No. 913,144; Feb. 23; Sp. p. 4377; Gaz. vol. 139; p. 790.
- James, G., S. Benson, and W. Wilson, Chicago, Ill. Detachable pipe and hose coupling. No. 918,858; Apr. 20; Sp. p. 3955; Gaz. vol. 141; p. 695.
- James, H. D., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 911,013; Jan. 26; Sp. p. 5246; Gaz. vol. 138; p. 945.
- James, H. D., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 917,868; Apr. 13; Sp. p. 1823; Gaz. vol. 141; p. 333.
- James, H. D., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 924,666; June 15; Sp. p. 3380; Gaz. vol. 143; p. 583.
- James, H. D., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system for electric motors. No. 924,667; June 15; Sp. p. 3385; Gaz. vol. 143; p. 583.
- James, H. D., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Rheostat and controlling device. No. 925,341; June 15; Sp. p. 4718; Gaz. vol. 143; p. 806.
- James, H. D., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Rheostat. No. 926,254; June 29; Sp. p. 6646; Gaz. vol. 143; p. 1173.
- James, H. D., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control switch and system. No. 931,126; Aug. 17; Sp. p. 3161; Gaz. vol. 145; p. 554.
- James, H. D., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system and switch. No. 931,205; Aug. 17; Sp. p. 3346; Gaz. vol. 145; p. 581.
- James, H. D., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. System of electric-motor control. No. 924,786; June 15; Sp. p. 3639; Gaz. vol. 143; p. 624.
- James, H. D., and W. A. Dick, Pittsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. System of electric-motor control. No. 924,785; June 15; Sp. p. 3636; Gaz. vol. 143; p. 624.
- James Hunter Machine Company. (See Scribner, C. E. T., assignor.)
- James, J. (See Black and James.)
- James, J., Oklahoma, Okla. Grain-shock elevator. No. 915,183; Mar. 16; Sp. p. 3167; Gaz. vol. 140; p. 555.
- James, J. D., Pulaski, Va. Apparatus for filling zinc-retorts with granular material. No. 936,245; Oct. 5; Sp. p. 1327; Gaz. vol. 147; p. 204.
- James, J. H., and H. Watson, Pittsburg, Pa., assignors to Searchlight Gas Company, Warren, Ohio. Treatment of acetylene gas. No. 928,867; July 20; Sp. p. 4478; Gaz. vol. 144; p. 780.
- James, J. L., May, Okla. Safety-stirrur. No. 939,697; Nov. 9; Sp. p. 2762; Gaz. vol. 148; p. 455.
- James, J. R., Ridley Park, Pa. Rail-bending tool. No. 940,325; Nov. 16; Sp. p. 4173; Gaz. vol. 148; p. 704.
- James Manufacturing Company. (See James, E., assignor.)
- James, O., Fall River, Mass. Stenciling apparatus. No. 932,867; Aug. 31; Sp. p. 6844; Gaz. vol. 145; p. 1175.
- James, S. A. (See Pittman and James.)
- James, W., Birkenhead, England. Tire-tool. No. 913,897; Mar. 2; Sp. p. 490; Gaz. vol. 140; p. 79.
- James, W. A., Aurora, Ill. Surface-indicator. No. 917,444; Apr. 6; Sp. p. 965; Gaz. vol. 141; p. 168.
- James, W. C., Los Angeles, Cal. Wall-bed. No. 929,595; July 27; Sp. p. 5952; Gaz. vol. 144; p. 1046.
- James, W. C., Los Angeles, Cal. Folding wall-bed. No. 938,668; Nov. 2; Sp. p. 493; Gaz. vol. 148; p. 76.
- James, W. H. (See Harrington, C. M., assignor.)
- James, W. J., Pittsburg, Pa. Valve. No. 944,871; Dec. 28; Sp. p. 6131; Gaz. vol. 149; p. 1054.
- Jameson, A., Indianapolis, Ind. Dental apparatus. No. 936,539; Oct. 12; Sp. p. 1991; Gaz. vol. 147; p. 328.
- Jameson, H., Joplin, Mo. Electric gas-igniting device. No. 931,427; Aug. 17; Sp. p. 3813; Gaz. vol. 145; p. 659.
- Jameson, W. M., Cambridge, Mass. Device for forming wire hat-frames. No. 935,305; Sept. 28; Sp. p. 4682; Gaz. vol. 146; p. 831.
- Jameson, W. M., Cambridge, Mass. Hat-frame-wire-measuring apparatus. No. 941,637; Nov. 30; Sp. p. 7008; Gaz. vol. 148; p. 1186.
- Jameson Metal Furniture Company. (See Ohnstrand, E., assignor.)
- Jameson, B. G. (See Keller and Jameson.)
- Jameson, J. (See Lend, J., assignor.)
- Jameson, J. A., Harrison, N. J. Mouthpiece for telephone-transmitters. No. 943,149; Dec. 14; Sp. p. 2420; Gaz. vol. 149; p. 411.
- Jameson, R., assignor to Draper Company, Hopedale, Mass. Stopping mechanism for automatic replenishing-loom. No. 914,491; Mar. 9; Sp. p. 1758; Gaz. vol. 140; p. 302.
- Jannitzky, P., Conemaugh, Pa. Propeller mechanism for air-ships, &c. No. 920,064; Apr. 27; Sp. p. 6643; Gaz. vol. 141; p. 1130.
- Jancey, L., Paris, France. Labial protecting means for drinking glasses, bowls, cups, spoons, and the like. No. 939,698; Nov. 9; Sp. p. 2763; Gaz. vol. 148; p. 456.
- Jandreau, E., Cherry Valley, N. Y. Rail chair and brace. No. 930,762; Aug. 10; Sp. p. 2346; Gaz. vol. 145; p. 406.
- Janelle, B., Manchester, N. H. Door check and closer. No. 909,904; Jan. 19; Sp. p. 2975; Gaz. vol. 138; p. 551.
- Janelle, B., Manchester, N. H., assignor to Draper Company, Hopedale, Mass. Loom-temple attachment. No. 932,022; Aug. 24; Sp. p. 5103; Gaz. vol. 145; p. 872.
- James, G. P., Windsor, Mo. Sliding gate. No. 911,043; Feb. 2; Sp. p. 37; Gaz. vol. 139; p. 9.
- James, I., and A. A. Lanaux, assignors of one-fourth to W. P. H. McFaddin and one-fourth to W. C. Jones, Beaumont, Tex. Butt-cutter. No. 912,850; Feb. 16; Sp. p. 3800; Gaz. vol. 139; p. 669.
- James, W. D., Saginaw, assignor to Quaker Shade Roller Company, Bay City, Mich. Shade-roller. No. 938,383; Oct. 26; Sp. p. 5854; Gaz. vol. 147; p. 993.
- Jamesville Barb Wire Company. (See Harris, J., assignor.)
- Jamesville Machine Company. (See Heylman, E. M., assignor.)
- Janette, J. T., assignor to Cutler-Hammer Mfg. Co., Milwaukee, Wis. Multiple switch-starter. No. 911,592; Feb. 9; Sp. p. 1107; Gaz. vol. 139; p. 215.
- Janin, A. (See Janin, A. S., assignor.)
- Janin, A. S., New York, N. Y. Tile. No. 909,603; Jan. 12; Sp. p. 2361; Gaz. vol. 138; p. 419.
- Janin, A. S., New York, assignor of one-third to A. Janin, Brooklyn, N. Y. Trolley. No. 917,445; Apr. 6; Sp. p. 967; Gaz. vol. 141; p. 168.
- Janisch, L., Berlin, Germany, assignor to General Electric Company. Motor-controlling device. No. 926,874; July 6; Sp. p. 356; Gaz. vol. 144; p. 57.
- Janke, C., Meadow Grove, Nebr. Trap. No. 940,877; Nov. 23; Sp. p. 5386; Gaz. vol. 148; p. 913.
- Janke, H., Halberstadt, Germany. Coin-freed locking device for telephone apparatus. No. 935,515; Sept. 28; Sp. p. 5120; Gaz. vol. 146; p. 900.
- Janvill, L. D., assignor to S. J. Gonyea, Rumford, Me. Shoe-stretcher. No. 935,988; Oct. 5; Sp. p. 827; Gaz. vol. 147; p. 123.
- Janney & Company. (See Blue, C. W., assignor.)
- Janney, F. G., Salt Lake City, Utah. Ore-classifier. No. 928,455; July 20; Sp. p. 3655; Gaz. vol. 144; p. 644.
- Janney, R., New York, N. Y., assignor to Waterbury Tool Co., Waterbury, Conn. Variable-speed-transmission device. No. 924,787; June 15; Sp. p. 3641; Gaz. vol. 143; p. 624.
- Janofsky, A. E. M. (See Janofsky, A. M., assignor.)
- Janofsky, A. M., Chicago, Ill., assignor of one-third to A. E. M. Janofsky, Brooklyn, N. Y. Tire for vehicle-wheels. No. 909,491; Jan. 12; Sp. p. 2001; Gaz. vol. 138; p. 356.
- Jansen, A. W. (See Hall, M. W., assignor.)
- Jansen, J., and W. Neelmeier, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 924,231; June 8; Sp. p. 2497; Gaz. vol. 143; p. 405.
- Jansen, J., and W. Neelmeier, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 924,232; June 8; Sp. p. 2498; Gaz. vol. 143; p. 405.
- Jansen, J., and W. Neelmeier, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 933,841; Sept. 14; Sp. p. 1801; Gaz. vol. 146; p. 297.



*Alphabetical list of patentees—Continued.*

- Jansen, J., and W. Neelmeler, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 933,842; Sept. 14; Sp. p. 1802; Gaz. vol. 146; p. 297.
- Jansen, J., and W. Neelmeler, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 936,321; Oct. 12; Sp. p. 1483; Gaz. vol. 147; p. 256.
- Janssen, H., assignor to Textile Machine Works, Wyomissing, Pa. Wire-polishing machine. No. 926,002; June 22; Sp. p. 6089; Gaz. vol. 143; p. 1053.
- Jantusek, J. (See Mooney and Jantusek.)
- January, M. S., Kyle, Tex. Horse-detacher. No. 909,420; Jan. 12; Sp. p. 2002; Gaz. vol. 138; p. 356.
- Japp, H., New York, assignor to S. Pearson and Son, Inc., Long Island City, N. Y. Air-lock. No. 908,866; Jan. 5; Sp. p. 901; Gaz. vol. 138; p. 143.
- Japp, H., New York, assignor to S. Pearson and Son, Inc., Long Island City, N. Y. Tunneling apparatus. No. 922,431; May 18; Sp. p. 4793; Gaz. vol. 142; p. 830.
- Jaqua Advertising Company. (See Jaqua, G. R., assignor.)
- Jaqua, G. R., assignor to Jaqua Advertising Company, Toledo, Ohio. Revolving card-display device. No. 934,815; Sept. 21; Sp. p. 3698; Gaz. vol. 146; p. 643.
- Jaques, F., Morristown, N. J. Display-rack. No. 943,250; Dec. 14; Sp. p. 2620; Gaz. vol. 149; p. 444.
- Jaques, F. O., Cranston, R. I., assignor to Central Tool Company. Height-gage. No. 924,668; June 15; Sp. p. 3388; Gaz. vol. 143; p. 583.
- Jaques, F. O., Cranston, R. I., assignor to Central Tool Company. Micrometer-gage. No. 934,730; Sept. 21; Sp. p. 3532; Gaz. vol. 146; p. 615.
- Jaques, F. O., Jr., Cranston, R. I., assignor to Central Tool Company. Machine for contouring crown-matrices. No. 932,133; Aug. 24; Sp. p. 5338; Gaz. vol. 145; p. 910.
- Jaques, F. O., Jr., Cranston, R. I., assignor to Central Tool Company. Forming tooth-crown matrices. No. 934,536; Sept. 21; Sp. p. 3146; Gaz. vol. 146; p. 549.
- Jaques, F. O., Jr., Cranston, R. I., assignor to Central Tool Company. Dental press. No. 936,633; Oct. 12; Sp. p. 2189; Gaz. vol. 147; p. 362.
- Jaques, F. O., Jr., Cranston, R. I., assignor to Central Tool Company. Machine for contouring crown-matrices. No. 939,261; Nov. 9; Sp. p. 1755; Gaz. vol. 148; p. 305.
- Jaques, L. C., Spokane, Wash. Vapor-bath cabinet. No. 911,727; Feb. 9; Sp. p. 1398; Gaz. vol. 139; p. 260.
- Jaquet, C., assignor to Schneider, Jaquet & Cie., G. m. b. H., Strassburg-Königshofen, Germany. Grain-reducing machine. No. 911,044; Feb. 2; Sp. p. 38; Gaz. vol. 139; p. 9.
- Jardé, H., New York, N. Y. Sound-box for talking-machines. No. 917,076; Apr. 6; Sp. p. 227; Gaz. vol. 141; p. 42.
- Jardine, R., Cleveland, Ohio. Distributor. No. 912,683; Feb. 16; Sp. p. 3440; Gaz. vol. 139; p. 614.
- Jardine, R., Cleveland, Ohio. Clip for vehicle-springs. No. 912,684; Feb. 16; Sp. p. 3442; Gaz. vol. 139; p. 614.
- Jargick, P. P., Brookfield, Ill. Nut-lock. No. 918,157; Apr. 13; Sp. p. 2428; Gaz. vol. 141; p. 435.
- Jargick, P. P., La Grange, Ill. Nut-lock. No. 918,158; Apr. 13; Sp. p. 2429; Gaz. vol. 141; p. 435.
- Jarmolowsky, A., New York, N. Y. Gas-fixture. No. 917,446; Apr. 6; Sp. p. 972; Gaz. vol. 141; p. 169.
- Jaros, L. A., Chicago, Ill. Device for teaching music. No. 912,685; Feb. 16; Sp. p. 3443; Gaz. vol. 139; p. 614.
- Jaross, S., Philadelphia, Pa. Device for delivering and receiving mail-bags from trains and the like. No. 921,254; May 11; Sp. p. 2367; Gaz. vol. 142; p. 415.
- Jarr, H. C., Plummer, Minn. Beater. No. 910,200; Jan. 19; Sp. p. 3579; Gaz. vol. 138; p. 650.
- Jarrett, E. S. (See Moran, Doty, and Jarrett.)
- Jarvis, T. B., Kansas City, Mo. Gas heating apparatus. No. 926,699; June 29; Sp. p. 7480; Gaz. vol. 143; p. 1318.
- Jarvis, H. P. (See White and Jarvis.)
- Jarvis, M. N., Portland, Conn. Punching-tool for embroidery. No. 938,384; Oct. 26; Sp. p. 5856; Gaz. vol. 147; p. 994.
- Jarvis, M. N., Portland, Conn. Reversing-chuck and tool-holder. No. 943,414; Dec. 14; Sp. p. 2959; Gaz. vol. 149; p. 499.
- Jaspersen, H., Philadelphia, Pa. Infant's high chair. No. 930,074; Aug. 3; Sp. p. 951; Gaz. vol. 145; p. 154.
- Jaspersen, W. (See Buehler, C., assignor.)
- Jaubert, G. F., Paris, France. Respirator. No. 914,576; Mar. 9; Sp. p. 1935; Gaz. vol. 140; p. 330.
- Jaubert, G. F., Paris, France. Apparatus for regenerating vitiated air. No. 928,978; July 27; Sp. p. 4704; Gaz. vol. 144; p. 844.
- Jaubert, G. F., Paris, France. Gas-generator. No. 933,077; Sept. 7; Sp. p. 80; Gaz. vol. 146; p. 14.
- Jaubert, G. F., Paris, France. Hydrogen-gas generator. No. 943,022; Dec. 14; Sp. p. 2142; Gaz. vol. 149; p. 367.
- Jay, E., London, England. Binder for loose-sheet books. No. 938,057; Oct. 26; Sp. p. 5129; Gaz. vol. 147; p. 881.
- Jay, R., assignor to Leipziger Maschinenbau-Gesellschaft m. b. H., Leipzig, Germany. Riveting-machine. No. 940,533; Nov. 16; Sp. p. 4634; Gaz. vol. 148; p. 773.
- Jay, W., Black River Falls, Wis. Land-anchor. No. 911,504; Feb. 2; Sp. p. 912; Gaz. vol. 139; p. 160.
- Jay, W. H., Le Beau, S. D. Fire-escape. No. 927,148; July 6; Sp. p. 933; Gaz. vol. 144; p. 151.
- Jay, W. N., assignor of one-half to W. M. Hatfield, Moscow, Idaho. Seed-planter. No. 941,579; Nov. 30; Sp. p. 6893; Gaz. vol. 148; p. 1167.
- Jay, W. N., assignor of one-half to G. F. Mix, Moscow, Idaho. Wrench. No. 943,781; Dec. 21; Sp. p. 3766; Gaz. vol. 149; p. 655.
- Jaycox, C. W., Philadelphia, Pa. Dish-washing machine. No. 909,004; Jan. 12; Sp. p. 2362; Gaz. vol. 138; p. 419.
- Jaycox, C. W., Philadelphia, Pa. Glass-washing apparatus. No. 942,074; Dec. 7; Sp. p. 67; Gaz. vol. 149; p. 13.
- Jayne, G., Pittsburg, Pa. Sash-lock. No. 908,996; Jan. 5; Sp. p. 1163; Gaz. vol. 138; p. 185.
- Jayne, A. M., Bradford, Pa. Mail and parcel binder. No. 911,820; Feb. 9; Sp. p. 1562; Gaz. vol. 139; p. 290.
- Jayne, E. H., Joliet, Ill. Napkin-holder. No. 918,859; Apr. 20; Sp. p. 3956; Gaz. vol. 141; p. 696.
- Jaynes, C. A., East Orange, N. J. Insulating-joint. No. 928,763; July 20; Sp. p. 4273; Gaz. vol. 144; p. 745.
- Jean, W. V., Minneapolis, Minn. Ore-reducing apparatus. No. 926,492; June 29; Sp. p. 7083; Gaz. vol. 143; p. 1249.
- Jean, W. V., Minneapolis, Minn. Ore-separating machine. No. 926,493; June 29; Sp. p. 7084; Gaz. vol. 143; p. 1250.
- Jeanes, B. H., Ballinger, Tex. Pump. No. 929,224; July 27; Sp. p. 5212; Gaz. vol. 144; p. 924.
- Jeannesson, H. (See Choltus and Jeannesson.)
- Jeavons, W. R., Cleveland, Ohio. Oil-stove. No. 908,997; Jan. 5; Sp. p. 1165; Gaz. vol. 138; p. 185.
- Jefcoat, O. C., assignor of one-half to L. S. Trottl, New Brookland, S. C. Railway-switch. No. 931,428; Aug. 17; Sp. p. 3814; Gaz. vol. 145; p. 659.
- Jeffcott, L. B., New York, N. Y. Folding bed. No. 926,420; June 29; Sp. p. 6962; Gaz. vol. 143; p. 1226.
- Jeffcott, L. B., New York, N. Y. Convertible bed and mattress therefor. No. 926,421; June 29; Sp. p. 6964; Gaz. vol. 143; p. 1226.
- Jeffcott, L. B., New York, N. Y. Convertible couch and bed. No. 941,878; Nov. 30; Sp. p. 7548; Gaz. vol. 148; p. 1270.
- Jeffcott, L. B., New York, N. Y. Folding bed. No. 941,879; Nov. 30; Sp. p. 7550; Gaz. vol. 148; p. 1270.
- Jefferis, R. W., Merchantville, N. J. Metal locker. No. 917,869; Apr. 13; Sp. p. 1826; Gaz. vol. 141; p. 334.
- Jefferis, R. W., Camden, N. J. Metallic shelving. No. 917,870; Apr. 13; Sp. p. 1829; Gaz. vol. 141; p. 334.
- Jefferis, H. I., assignor of one-half to W. F. May, Fort Smith, Ark. Metallic partition-stud. No. 927,050; July 6; Sp. p. 738; Gaz. vol. 144; p. 117.
- Jefferis, H. I., assignor of one-half to W. M. Jeffers, Fort Smith, Ark. Wall-plug. No. 936,322; Oct. 12; Sp. p. 1484; Gaz. vol. 147; p. 256.
- Jefferis, W. M. (See Jeffers, H. I., assignor.)
- Jefferson, E. D., Lowell, Mass. Gate-valve. No. 936,454; Oct. 12; Sp. p. 1807; Gaz. vol. 147; p. 300.
- Jefferson, J., Kokomo, Ind. Stove-grate. No. 913,211; Feb. 23; Sp. p. 4508; Gaz. vol. 139; p. 812.
- Jeffery, B. A. (See Jeffery, J. A. and B. A.)
- Jeffery, J. A. and B. A., San Francisco, Cal. Electric igniting device. No. 942,646; Dec. 7; Sp. p. 1284; Gaz. vol. 149; p. 209.
- Jeffery, R. B., assignor of one-fourth to G. McNeil and one-fourth to A. McDonald, Byesville, Ohio. Combined shade-bracket and curtain-pole support. No. 928,522; July 20; Sp. p. 3782; Gaz. vol. 144; p. 664.
- Jeffery, R. E., Piedmont, Cal. Automatic gun. No. 929,596; July 27; Sp. p. 5957; Gaz. vol. 144; p. 1047.
- Jeffery, T. B. (See Symmonds, R., assignor.)
- Jeffery, T. B., Kenosha, Wis. Vehicle-wheel. No. 919,358; Apr. 27; Sp. p. 5144; Gaz. vol. 141; p. 892.
- Jeffery, T. B., Kenosha, Wis. Lock. No. 921,711; May 18; Sp. p. 3334; Gaz. vol. 142; p. 594.
- Jeffery, T. B., Kenosha, Wis. Vehicle-wheel. No. 931,615; Aug. 17; Sp. p. 4175; Gaz. vol. 145; p. 716.
- Jeffes, N. C. (See Kennedy, Carlson, and Jeffes.)
- Jeffrey, H., Louisville, Ky. Elliptic spring. No. 941,521; Nov. 30; Sp. p. 6781; Gaz. vol. 148; p. 1149.
- Jeffrey, H., Louisville, Ky., assignor to Ohio Malleable Iron Company, Columbus, Ohio. Wrench. No. 916,951; Mar. 30; Sp. p. 6656; Gaz. vol. 140; p. 1186.
- Jeffrey, H., Louisville, Ky., assignor to Ohio Malleable Iron Company, Columbus, Ohio. Wrench. No. 916,952; Mar. 30; Sp. p. 6657; Gaz. vol. 140; p. 1186.
- Jeffrey, J. A. (See Dierdorff, H. B., assignor.)
- Jeffrey Manufacturing Company. (See Bauroth, W. J., assignor.)
- Jeffrey Manufacturing Company. (See Buffum, F. D., assignor.)
- Jeffrey Manufacturing Company. (See Gustavsen, C. O., assignor.)

*Alphabetical list of patentees—Continued.*

- Jeffrey Manufacturing Company. (See Sessions, F. L., assignor.)  
 Jeffrey Manufacturing Company. (See Smith, W. L., assignor.)  
 Jeffrey Manufacturing Company. (See Willson, F. R., Jr., assignor.)  
 Jeffrey, T. B., (See Symmonds, R., Jr., assignor.)  
 Jeffreys, E. A., and W. B. Sayers, Glasgow, Scotland. Gearing. No. 919,359; Apr. 27; Sp. p. 5146; Gaz. vol. 141; p. 893.  
 Jeffries, J. W., Pattonsburg, Mo. Portable fire-escape. No. 920,956; May 11; Sp. p. 1765; Gaz. vol. 142; p. 313.  
 Jeffries, W. J., Tacoma, Wash. Cement-pipe machine. No. 932,023; Aug. 24; Sp. p. 5105; Gaz. vol. 145; p. 873.  
 Jellinck, H., (See Bundschuh, W. C., assignor.)  
 Jenckes, L. B., and G. F. Hutchins, Worcester, Mass., assignors to Crompton & Knowles Loom Works. Welt-replenishing loom. No. 932,134; Aug. 24; Sp. p. 5338; Gaz. vol. 145; p. 910.  
 Jenckes, R. A., Providence, R. I., assignor to General Fire Extinguisher Company, New York, N. Y. Support for pipe-hangers. No. 941,714; Nov. 30; Sp. p. 7193; Gaz. vol. 148; p. 1212.  
 Jenckes Spinning Company. (See Wood, W. P., assignor.)  
 Jendras, G., Posen, Germany. Bread-cutting machine. No. 932,555; Aug. 31; Sp. p. 6188; Gaz. vol. 145; p. 1073.  
 Jendrzewski, F., Chicago, Ill. Vending-machine. No. 921,841; May 18; Sp. p. 3617; Gaz. vol. 142; p. 638.  
 Jones, H. S., Hannibal, Mo. Attachment for telephone-switchboards. No. 916,710; Mar. 30; Sp. p. 6190; Gaz. vol. 140; p. 1109.  
 Jenkins, C., Aspinwall, Pa. Railway-tie and rail-joint. No. 911,242; Feb. 2; Sp. p. 439; Gaz. vol. 139; p. 75.  
 Jenkins, C., Danville, Pa. Bobbin-spindle. No. 936,904; Oct. 12; Sp. p. 2714; Gaz. vol. 147; p. 452.  
 Jenkins, C. B., (See Simons, S. L., assignor.)  
 Jenkins, C. E., (See Miller, Huggins, and Jenkins.)  
 Jenkins, C. F., (See Dupue and Jenkins.)  
 Jenkins, C. F., Washington, D. C. Telautograph. No. 909,421; Jan. 12; Sp. p. 2003; Gaz. vol. 138; p. 356.  
 Jenkins, C. F., Washington, D. C. Ball-bearing. No. 937,811; Oct. 26; Sp. p. 4613; Gaz. vol. 147; p. 799.  
 Jenkins, C. F., Washington, D. C. Folding box. No. 941,256; Nov. 23; Sp. p. 6196; Gaz. vol. 148; p. 1040.  
 Jenkins, C. F., Washington, D. C. Folding box. No. 941,257; Nov. 23; Sp. p. 6198; Gaz. vol. 148; p. 1040.  
 Jenkins, C. F., Washington, D. C. Electrical contact device. No. 942,647; Dec. 7; Sp. p. 1286; Gaz. vol. 149; p. 210.  
 Jenkins, C. F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation of America. Cap for bottles. No. 919,872; Apr. 27; Sp. p. 6258; Gaz. vol. 141; p. 1067.  
 Jenkins, C. F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation of America. Liquid-holding paper vessel. No. 920,150; May 4; Sp. p. 114; Gaz. vol. 142; p. 18.  
 Jenkins, C. F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation of America. Apparatus for making spirally-wound tubes. No. 921,842; May 18; Sp. p. 3623; Gaz. vol. 142; p. 638.  
 Jenkins, C. F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation of America. Making paper bottle-closures. No. 924,555; June 8; Sp. p. 3135; Gaz. vol. 143; p. 512.  
 Jenkins, C. F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation of America. Paper package. No. 925,913; June 22; Sp. p. 5931; Gaz. vol. 143; p. 1024.  
 Jenkins, C. F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation of America. Machine for making paper bottles. No. 933,460; Sept. 7; Sp. p. 970; Gaz. vol. 146; p. 140.  
 Jenkins, C. F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation of America. Die for making closures for paper bottles. No. 935,791; Oct. 5; Sp. p. 397; Gaz. vol. 147; p. 58.  
 Jenkins, C. F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation of America. Treating paper bottles. No. 935,848; Oct. 5; Sp. p. 528; Gaz. vol. 147; p. 76.  
 Jenkins, C. F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation of America. Apparatus for making spirally-wound tubes. No. 941,255; Nov. 23; Sp. p. 6195; Gaz. vol. 148; p. 1039.  
 Jenkins, C. F., Washington, D. C., assignor to General Electric Company. Steam-generator flue. No. 926,700; June 29; Sp. p. 7481; Gaz. vol. 143; p. 1319.  
 Jenkins, C. F., Washington, D. C., assignor to General Electric Company. Steam-generator flue. No. 926,701; June 29; Sp. p. 7484; Gaz. vol. 143; p. 1319.  
 Jenkins, C. F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation. Paper vessel. No. 935,029; Sept. 28; Sp. p. 4129; Gaz. vol. 146; p. 740.  
 Jenkins, C. F., Washington, D. C., assignor to Single Service Package Corporation of America. Paper receptacle. No. 941,992; Nov. 30; Sp. p. 7761; Gaz. vol. 148; p. 1307.  
 Jenkins, C. F., Washington, D. C., assignor to Single Service Package Corporation of America. Paper receptacle. No. 944,613; Dec. 28; Sp. p. 5581; Gaz. vol. 149; p. 968.  
 Jenkins, C. F., Washington, D. C., assignor to Single Service Package Company. Closure for paper packages. No. 943,307; Dec. 14; Sp. p. 7740; Gaz. vol. 149; p. 463.  
 Jenkins, C. F., Washington, D. C., assignor to Single Service Package Company. Knockdown box. No. 944,614; Dec. 28; Sp. p. 5582; Gaz. vol. 149; p. 968.  
 Jenkins, C. F., Washington, D. C., assignor to Single Service Package Company. Closure for paper vessels. No. 944,615; Dec. 28; Sp. p. 5584; Gaz. vol. 149; p. 968.  
 Jenkins, C. F., Washington, D. C., assignor to Single Service Package Company. Package for frangible articles. No. 944,616; Dec. 28; Sp. p. 5584; Gaz. vol. 149; p. 969.  
 Jenkins, C. F., Washington, D. C., assignor to J. Gayley, A. R. Turner, and C. A. Henderson, trustees, New York, N. Y. Making spirally-wound tubes. No. 916,162; Mar. 23; Sp. p. 5111; Gaz. vol. 140; p. 904.  
 Jenkins, C. H., Louisville, Ky. Flexible pipe-joint. No. 910,687; Jan. 26; Sp. p. 4618; Gaz. vol. 138; p. 841.  
 Jenkins, C. S., Lansdale, Pa. Chart-suspension device. No. 929,672; Aug. 3; Sp. p. 57; Gaz. vol. 145; p. 12.  
 Jenkins, E. B., (See Porter and Jenkins.)  
 Jenkins, E. B., (See Porter, Jenkins, and Steytler.)  
 Jenkins, F. R., (See Ames, M. E., assignor.)  
 Jenkins, G. F., Barnstead, N. H. Pruning implement. No. 930,183; Aug. 3; Sp. p. 1179; Gaz. vol. 145; p. 192.  
 Jenkins, G. L., Washington, D. C. Making paper bottles. No. 927,801; July 13; Sp. p. 2279; Gaz. vol. 144; p. 394.  
 Jenkins, H. L., Bridgeport, Conn. Fire-hose carrier. No. 918,159; Apr. 13; Sp. p. 2430; Gaz. vol. 141; p. 435.  
 Jenkins, J., Richmond, Va. Broken-flange finder. No. 937,307; Oct. 19; Sp. p. 3549; Gaz. vol. 147; p. 614.  
 Jenkins, J. J., (See Newman, H. C., assignor.)  
 Jenkins, L. A., Morrison, Iowa. Apparatus for handling and screening potatoes or other vegetables. No. 933,306; Sept. 7; Sp. p. 619; Gaz. vol. 146; p. 96.  
 Jenkins, L. H., Philadelphia, Pa. Rock-drill. No. 913,389; Feb. 23; Sp. p. 4875; Gaz. vol. 139; p. 873.  
 Jenkins, M. L., Harvey, assignor to Buda Foundry & Manufacturing Company, Chicago, Ill. Railway-track car. No. 910,201; Jan. 19; Sp. p. 3582; Gaz. vol. 138; p. 650.  
 Jenkins, M. L., Harvey, assignor to Buda Foundry & Manufacturing Company, Chicago, Ill. Velocipede. No. 914,845; Mar. 9; Sp. p. 2503; Gaz. vol. 140; p. 418.  
 Jenkins, M. L., Harvey, assignor to Buda Foundry & Manufacturing Company, Chicago, Ill. Lifting-jack. No. 923,657; June 1; Sp. p. 1212; Gaz. vol. 143; p. 186.  
 Jenkins, M. L., Harvey, assignor to Buda Foundry & Manufacturing Company, Chicago, Ill. Lifting-jack. No. 944,617; Dec. 28; Sp. p. 5585; Gaz. vol. 149; p. 969.  
 Jenkins, M. R., Browning, Mo. Spring-stake. No. 937,942; Oct. 26; Sp. p. 4886; Gaz. vol. 147; p. 844.  
 Jenkins, R. L., (See Jenkins, W. F. and R. L.)  
 Jenkins, T. R., Jr., assignor of one-half to M. C. Greer, Baltimore, Md. Flushing-valve. No. 909,605; Jan. 12; Sp. p. 2364; Gaz. vol. 138; p. 419.  
 Jenkins, T. W., et al., (See Kenan, J. J. W., assignor.)  
 Jenkins, U. S., and J. G. Broman, Chicago, Ill. Wheel. No. 921,996; May 18; Sp. p. 3929; Gaz. vol. 142; p. 687.  
 Jenkins, W. E., Milton, Pa. Transmission-gearing. No. 934,731; Sept. 21; Sp. p. 3534; Gaz. vol. 146; p. 615.  
 Jenkins, W. E., Milton, Pa. Transmission-gearing. No. 944,872; Dec. 28; Sp. p. 6132; Gaz. vol. 149; p. 1054.  
 Jenkins, W. F. and R. L., Richmond, Va. Emergency wheel-rim. No. 942,909; Dec. 14; Sp. p. 1867; Gaz. vol. 149; p. 329.  
 Jenkins, W. J., Retford, Nottingham, England. Apparatus for charging coke-ovens with coal. No. 912,964; Feb. 16; Sp. p. 4007; Gaz. vol. 139; p. 703.  
 Jenkins, W. R., Bellefonte, Pa. Friction-gearing. No. 912,131; Feb. 9; Sp. p. 2261; Gaz. vol. 139; p. 391.  
 Jenkinson, J., Orofino, Idaho. Wheel. No. 910,001; Jan. 19; Sp. p. 3164; Gaz. vol. 138; p. 585.  
 Jenkinson, W. E., (See Knapp, L. H., assignor.)  
 Jenks, J., San Diego, Cal. Adjustable fastener for hinged closures. No. 934,180; Sept. 14; Sp. p. 2470; Gaz. vol. 146; p. 407.  
 Jenks, T. W., Avalon, Pa. Reinforcing-bar. No. 939,962; Nov. 9; Sp. p. 3322; Gaz. vol. 148; p. 548.  
 Jenks, T. W., Avalon, Pa. Rolling ribbed bars. No. 941,880; Nov. 30; Sp. p. 7552; Gaz. vol. 148; p. 1271.



*Alphabetical list of patentees—Continued.*

- Jenks, W. S., Los Angeles, Cal. Oil-burner. No. 939,029; Nov. 2; Sp. p. 1249; Gaz. vol. 148; p. 200.
- Jenne, C. R., Fort Wayne, Ind. Acetylene-generator. No. 912,572; Feb. 16; Sp. p. 3209; Gaz. vol. 139; p. 575.
- Jenner, G., Vancouver, British Columbia, Canada. Card-case. No. 943,553; Dec. 14; Sp. p. 3255; Gaz. vol. 149; p. 548.
- Jenner, H. W. T., Washington, D. C. Flute. No. 920,471; May 4; Sp. p. 761; Gaz. vol. 142; p. 123.
- Jenney, H. C., New Bedford, Mass. Boot and shoe upper and box-toe therefor. No. 914,724; Mar. 9; Sp. p. 2254; Gaz. vol. 140; p. 378.
- Jennings, A. R., London, England. Adding-machine. (Reissue.) No. 12,987; July 13; Sp. p. 3169; Gaz. vol. 144; p. 540.
- Jennings, C. E., and O. D. Shuptrine, Houston, Tex. Folding crate and coop. No. 925,480; June 22; Sp. p. 4997; Gaz. vol. 143; p. 882.
- Jennings, C. M., assignor of one-fourth to Salina Foundry and Manufacturing Company, Salina, Kans. Pitman-box. No. 941,638; Nov. 30; Sp. p. 7009; Gaz. vol. 148; p. 1186.
- Jennings, C. S., Brookline, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 944,487; Dec. 28; Sp. p. 5286; Gaz. vol. 149; p. 922.
- Jennings, C. W., deceased, Camden, N. J.; L. M. Jennings, administratrix. Railway-tie plate. No. 933,038; Aug. 31; Sp. p. 7177; Gaz. vol. 145; p. 1232.
- Jennings, E. W., Nashville, Tenn. Coin-wrapper. No. 930,291; Aug. 3; Sp. p. 1356; Gaz. vol. 145; p. 224.
- Jennings, G. H., Brockton, Mass. Safety attachment for gas-burners. No. 922,770; May 25; Sp. p. 5506; Gaz. vol. 142; p. 968.
- Jennings, G. M. (See Millam, J. W., assignor.)
- Jennings, J., Greenwood, Ind., assignor, by mesne assignments, to Automatic Cooker Company. Agitating cooker and processor. (Re-issue.) No. 13,015; Aug. 24; Sp. p. 5892; Gaz. vol. 145; p. 1006.
- Jennings, L. M., administratrix. (See Jennings, C. W.)
- Jennings, O. S., Danby, assignor of one-half to G. W. Miller, Ithaca, N. Y. Chair. No. 935,306; Sept. 28; Sp. p. 4684; Gaz. vol. 146; p. 832.
- Jennings, T. F., Rochester, N. Y. Caster. No. 919,873; Apr. 27; Sp. p. 6258; Gaz. vol. 141; p. 1067.
- Jennings, V. H., assignor to Mills Woven Cartridge Belt Company, Worcester, Mass. Woven fabric. No. 924,788; June 15; Sp. p. 3648; Gaz. vol. 143; p. 625.
- Jennison, E., Detroit, Mich. Comb. No. 934,181; Sept. 14; Sp. p. 2471; Gaz. vol. 146; p. 407.
- Jennison, J. A., Great Bend, Kans. Corner-shield. No. 922,146; May 18; Sp. p. 4217; Gaz. vol. 142; p. 737.
- Jenrich, A. C., Columbia, Nev. Ratchet monkey-wrench. No. 928,764; July 20; Sp. p. 4275; Gaz. vol. 144; p. 745.
- Jensco, M., Butler, Pa. Antislipping-tread attachment for motor-vehicles. No. 941,993; Nov. 30; Sp. p. 7762; Gaz. vol. 148; p. 1308.
- Jensen, A., Eureka, Cal. Apparatus for heating and cooling liquids. No. 924,233; June 8; Sp. p. 2499; Gaz. vol. 143; p. 406.
- Jensen, A. K. (See Gould and Jensen.)
- Jensen, A. M., Leyden township, Cook county, Ill. Vegetable-washer. No. 927,051; July 6; Sp. p. 740; Gaz. vol. 144; p. 117.
- Jensen, A. M., Elizabeth, N. J. Music-holder. No. 932,135; Aug. 24; Sp. p. 5342; Gaz. vol. 145; p. 911.
- Jensen, B. J., Copenhagen, Denmark. Machine for manufacturing paper bags and the like. No. 926,422; June 29; Sp. p. 6966; Gaz. vol. 143; p. 1227.
- Jensen, C., Palmyra, N. J. Rotary-cylinder washing-machine. No. 914,577; Mar. 9; Sp. p. 1937; Gaz. vol. 140; p. 331.
- Jensen, C., Palmyra, N. J. Drive mechanism. No. 930,861; Aug. 10; Sp. p. 2540; Gaz. vol. 145; p. 439.
- Jensen, C., Palmyra, N. J. Drive mechanism. No. 934,534; Sept. 21; Sp. p. 3142; Gaz. vol. 146; p. 548.
- Jensen, C., Palmyra, N. J. Power-transmission mechanism. No. 934,535; Sept. 21; Sp. p. 3145; Gaz. vol. 146; p. 548.
- Jensen, C., Palmyra, N. J. Washing-machine cylinder. No. 934,971; Sept. 21; Sp. p. 4011; Gaz. vol. 146; p. 697.
- Jensen, C., Palmyra, N. J. Cylinder for washing-machines. No. 943,682; Dec. 21; Sp. p. 3568; Gaz. vol. 149; p. 621.
- Jensen, C., Warren, Pa. Combination pocket-box. No. 922,592; May 25; Sp. p. 5140; Gaz. vol. 142; p. 911.
- Jensen, C., Palmyra, assignor to Jensen Mfg. Co., Incorporated, Burlington, N. J. Washing-machine cylinder. No. 910,288; Jan. 19; Sp. p. 3798; Gaz. vol. 138; p. 684.
- Jensen, C. A., Bailey, Nebr. Truss. No. 908,998; Jan. 5; Sp. p. 1169; Gaz. vol. 138; p. 186.
- Jensen, C. W. (See Bashore and Jensen.)
- Jensen, H. H., Milwaukee, Wis. Machine for cutting metal bars by twisting. No. 913,013; Feb. 23; Sp. p. 4113; Gaz. vol. 139; p. 746.
- Jensen, J. A., Norfolk, Nebr. Foldable paste-pail stand. No. 922,909; May 25; Sp. p. 5809; Gaz. vol. 142; p. 1013.
- Jensen, J. C., Yorktown, Kans. Chain-manipulating tool. No. 939,511; Nov. 9; Sp. p. 2352; Gaz. vol. 148; p. 390.
- Jensen, J. P., Park, Wash. Saw-handle. No. 917,871; Apr. 13; Sp. p. 1831; Gaz. vol. 141; p. 335.
- Jensen Mfg. Co. (See Jensen, C., assignor.)
- Jensen, N. P., Waterloo, Iowa. Telephone-ringer. No. 935,792; Oct. 5; Sp. p. 399; Gaz. vol. 147; p. 59.
- Jensen, P., Hoboken, N. J., assignor to Manhattan Bedding Company, New York, N. Y. Bedstead-rail hanger. No. 922,771; May 25; Sp. p. 5507; Gaz. vol. 142; p. 968.
- Jensen, P., assignor of one-sixth to E. H. Morgan, New York, N. Y., one-sixth to O. L. Thomas, Rutherford, and one-sixth to R. A. Bresee, East Orange, N. J. Metal-ripping tool. No. 930,292; Aug. 3; Sp. p. 1359; Gaz. vol. 145; p. 225.
- Jensen, P. R., Denmark, Wis. Silo. No. 944,873; Dec. 28; Sp. p. 6134; Gaz. vol. 149; p. 1055.
- Jensen, R. R., Boulder, Colo. Steamer and cooker. No. 911,408; Feb. 2; Sp. p. 745; Gaz. vol. 139; p. 129.
- Jenson, A., assignor to Standard Carrier Company, Kenyon, Minn. Litter-carrier. No. 911,399; Feb. 2; Sp. p. 733; Gaz. vol. 139; p. 126.
- Jenson, A., assignor to Standard Carrier Company, Kenyon, Minn. Litter-carrier. No. 911,558; Feb. 2; Sp. p. 1025; Gaz. vol. 139; p. 177.
- Jenson, A., assignor to Standard Carrier Company, Kenyon, Minn. Sliding-door hanger. No. 913,660; Feb. 23; Sp. p. 5469; Gaz. vol. 139; p. 963.
- Jensson, G., *et al.* (See Johnson, R. E., assignor.)
- Jenssen, A. G. H., and R. C. Weitzel, Toledo, Ohio. Non-refillable bottle. No. 941,994; Nov. 30; Sp. p. 7764; Gaz. vol. 148; p. 1308.
- Jepperson, J., Salt Lake City, Utah. Separable fastener for boots and shoes. No. 940,462; Nov. 16; Sp. p. 4487; Gaz. vol. 148; p. 750.
- Jeppesen, P. C., Copenhagen, Denmark. Cycle. No. 928,765; July 20; Sp. p. 4276; Gaz. vol. 144; p. 745.
- Jeppson, G. N. (See Higgins and Jeppson.)
- Jeppen, J., Denison, Iowa. Rack. No. 944,874; Dec. 28; Sp. p. 6136; Gaz. vol. 149; p. 1055.
- Jepson, J. H., Minneapolis, Minn. Knee-joint for artificial limbs. No. 927,973; July 13; Sp. p. 2651; Gaz. vol. 144; p. 451.
- Jerauld, W. E., assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Indicator foreengines. No. 908,867; Jan. 5; Sp. p. 903; Gaz. vol. 138; p. 143.
- Jerauld, W. E., assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Testing attachment for spring-loaded valves. No. 920,472; May 4; Sp. p. 765; Gaz. vol. 142; p. 123.
- Jerome, J. (See Gould, M. K., assignor.)
- Jerram, A. E., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Gaging mechanism for shoe-sewing machines. No. 917,872; Apr. 13; Sp. p. 1834; Gaz. vol. 141; p. 335.
- Jerrems, T. W., St. Paul, Minn. Grass-twine machine. No. 932,708; Aug. 31; Sp. p. 6522; Gaz. vol. 145; p. 1124.
- Jerseman, M., and L. Wagner, New York, N. Y. Jeweler's display-stand. No. 926,657; June 29; Sp. p. 7397; Gaz. vol. 143; p. 1305.
- Jeschke, E., assignor to Jeschke Manufacturing Company, Bellevue, Ohio. Machine for digging ditches. No. 939,598; Nov. 9; Sp. p. 2558; Gaz. vol. 148; p. 420.
- Jeschke Manufacturing Company. (See Jeschke, E., assignor.)
- Jesdale, C., and L. G. Welldie, Chicago, Ill. Folding umbrella. No. 911,728; Feb. 9; Sp. p. 1399; Gaz. vol. 139; p. 261.
- Jessen, H. L., Alameda, Cal. Gas-engine valve. No. 935,989; Oct. 5; Sp. p. 830; Gaz. vol. 147; p. 124.
- Jessop, C. A., Detroit, Mich. Boiler-feeder. No. 933,461; Sept. 7; Sp. p. 972; Gaz. vol. 146; p. 147.
- Jessop, E. P., U. S. Navy. Automatic brake-applying device. No. 936,905; Oct. 12; Sp. p. 2715; Gaz. vol. 147; p. 453.
- Jessup, R. W., Oakland, assignor of one-half to F. H. Wheelan, San Francisco, Cal. Conditioning wet cereals. No. 916,448; Mar. 30; Sp. p. 5664; Gaz. vol. 140; p. 1024.
- Jessup, R. W., Oakland, Cal., assignor of one-third to F. H. Finley, Spokane, Wash., and F. H. Wheelan, San Francisco, Cal. Separator. No. 924,358; June 8; Sp. p. 2752; Gaz. vol. 143; p. 448.
- Jett, J. F. (See Jett, J. F., assignor.)
- Jett, J. F., *et al.* (See Sebree, W. T., assignor.)
- Jett, J. F., Carrollton, Ky., assignor of one-half to J. F. Jett, Peoria, Ill. Whisky-still. No. 908,465; Jan. 5; Sp. p. 59; Gaz. vol. 138; p. 13.
- Jett, W. L., Frankfort, Ky. Spoke-fastener. No. 938,149; Oct. 26; Sp. p. 5337; Gaz. vol. 147; p. 912.
- Jettinger, A. H., Delphos, Ohio. Gage-cock. No. 916,163; Mar. 23; Sp. p. 5112; Gaz. vol. 140; p. 904.
- Jewart, J. F., South Buffalo, N. Y. Perforator. No. 932,472; Aug. 31; Sp. p. 6014; Gaz. vol. 145; p. 1044.
- Jewell, B. G., Robinson, Ill. Automatic oil-tank cut-off. No. 921,712; May 18; Sp. p. 3338; Gaz. vol. 142; p. 594.
- Jewell, C. B., La Junta, Colo. Means for closing an open telegraph-circuit at a distant key. No. 908,868; Jan. 5; Sp. p. 905; Gaz. vol. 138; p. 143.
- Jewell, C. E., and C. H. Westcott, Seneca Falls, N. Y. Rule. No. 942,327; Dec. 7; Sp. p. 634; Gaz. vol. 149; p. 101.
- Jewell, C. M., Canastota, S. D. Dispensing-machine. No. 936,906; Oct. 12; Sp. p. 2718; Gaz. vol. 147; p. 453.
- Jewell, H. S., Buffalo, N. Y. Method of and apparatus for purifying middlings and other materials. No. 934,668; Sept. 21; Sp. p. 3409; Gaz. vol. 146; p. 595.
- Jewell, I. H., Chicago, Ill. Filter. No. 921,115; May 11; Sp. p. 2081; Gaz. vol. 142; p. 367.
- Jewell, I. H., Chicago, Ill. Filtering apparatus. No. 944,194; Dec. 21; Sp. p. 4636; Gaz. vol. 149; p. 794.

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- Jewell, J. R. (See Hobbs and Jewell.)  
 Jewell, M., Clinton, Me. Mowing-machine. No. 942,075; Dec. 7; Sp. p. 69; Gaz. vol. 149; p. 14.  
 Jewell, N. G., Redding, Cal. Basket. No. 912,851; Feb. 16; Sp. p. 3801; Gaz. vol. 139; p. 669.  
 Jewell, O. H., assignor to Polar Ice Machine Company, Chicago, Ill. Apparatus for making artificial ice, No. 934,732; Sept. 21; Sp. p. 3536; Gaz. vol. 146; p. 616.  
 Jewell, O. H., assignor to Polar Ice Machine Company, Chicago, Ill. Making artificial ice. No. 934,972; Sept. 21; Sp. p. 4013; Gaz. vol. 146; p. 698.  
 Jewett, C. J., Fort Smith, Ark. Screen. No. 935,516; Sept. 28; Sp. p. 5121; Gaz. vol. 146; p. 900.  
 Jewett, E. G. (See Lain, D. E., assignor.)  
 Jewett, F. J., New York, N. Y., assignor to H. W. Johns-Manville Company. Non-conducting compound. No. 923,358; June 1; Sp. p. 573; Gaz. vol. 143; p. 82.  
 Jewett, O. S., Lordsburg, Cal. Plow-blade. No. 930,763; Aug. 10; Sp. p. 2347; Gaz. vol. 145; p. 406.  
 Jirotko, B., Berlin, Germany. Device for ball-plays. No. 922,432; May 18; Sp. p. 4794; Gaz. vol. 142; p. 830.  
 Joachim, B., Newark, N. J. Envelop. No. 923,182; June 1; Sp. p. 133; Gaz. vol. 143; p. 21.  
 Joachimi, M., Sr., Versailles, Mo. Railway-tie. No. 919,586; Apr. 27; Sp. p. 5654; Gaz. vol. 141; p. 971.  
 Joaquin, J. H. (See Kern, M., assignor.)  
 Jobs, M. F., and C. A. Snow, East Randolph, N. Y. Seed-display cabinet. No. 926,809; July 6; Sp. p. 204; Gaz. vol. 144; p. 34.  
 Jobin, A., Winnipeg, Manitoba, Canada. Switch-rail-controlling device. No. 943,974; Dec. 21; Sp. p. 4174; Gaz. vol. 149; p. 722.  
 Jobson, F. L., assignor of one-third to W. J. McAughey, Richmond, Va. Insulating-tile. No. 919,175; Apr. 20; Sp. p. 4573; Gaz. vol. 141; p. 798.  
 Joecken, P. J., assignor to Falls Machine Company, Sheboygan Falls, Wis. Adjustable journal-box. No. 936,455; Oct. 12; Sp. p. 1809; Gaz. vol. 147; p. 301.  
 Joedicke, U., St. Louis, Mo. Dust-collector. No. 935,658; Oct. 5; Sp. p. 66; Gaz. vol. 147; p. 13.  
 Joel, H. F., Forest Gate, England. Secondary battery. No. 910,822; Jan. 26; Sp. p. 4900; Gaz. vol. 138; p. 884.  
 Joel, H. F., Forest Gate, England. Secondary battery. No. 931,929; Aug. 24; Sp. p. 4901; Gaz. vol. 145; p. 841.  
 Joel, H. F., Forest Gate, England. Secondary battery. No. 916,321; Mar. 23; Sp. p. 5392; Gaz. vol. 140; p. 957.  
 Joel, H. F., London, England. Secondary battery. No. 916,320; Mar. 23; Sp. p. 5390; Gaz. vol. 140; p. 957.  
 Joerissen, C. A., Washington, D. C. Type-writing machine. No. 911,014; Jan. 26; Sp. p. 5250; Gaz. vol. 138; p. 945.  
 Johannessen, F., Erie, Pa., assignor to Mergenthaler Linotype Company. Linotype-machine. No. 939,262; Nov. 9; Sp. p. 1759; Gaz. vol. 148; p. 306.  
 Johannessen, K., Detroit, Mich. Orthopedic apparatus. No. 911,243; Feb. 2; Sp. p. 442; Gaz. vol. 139; p. 76.  
 Johanning, H. V., Richmond, Ind. Concrete post. No. 931,616; Aug. 17; Sp. p. 4177; Gaz. vol. 145; p. 716.  
 Johansen, H. V., Devonport, near Auckland, New Zealand. Double-impulse internal-explosive engine. No. 944,195; Dec. 21; Sp. p. 4637; Gaz. vol. 149; p. 794.  
 Johansen, J. C., Copenhagen, Denmark. Vibratory apparatus for therapeutic use. No. 910,821; Jan. 26; Sp. p. 4900; Gaz. vol. 138; p. 884.  
 Johansen, K., Hamar, Norway. Governor. No. 924,234; June 8; Sp. p. 2501; Gaz. vol. 143; p. 406.  
 Johansson, A. E. (See Fagerström, Johansson, and Streiffert.)  
 Johantgen, J. F., et al. (See Johantgen, O. D., assignor.)  
 Johantgen, O. D., Philadelphia, Pa., assignor of one-fourth to J. F. Johantgen, one-fourth to J. W. Duntley, and one-fourth to W. O. Duntley, Chicago, Ill. Computing-machine. No. 923,269; June 1; Sp. p. 328; Gaz. vol. 143; p. 52.  
 John A. Miller Co. (See Miller, J. A., assignor.)  
 John A. Traylor Machinery Company. (See Traylor, J. A., assignor.)  
 John C. Kupferle Foundry Company. (See Day, J., assignor.)  
 John C. Moninger Company. (See Kurowski, E. F., assignor.)  
 John C. Moore Corporation. (See Moore, G. C., assignor.)  
 John Deere Plow Company. (See Ebrezn, P. E., assignor.)  
 John Douglas Company. (See Bedson, S., assignor.)  
 John Douglas Company. (See McNeill, D. W., assignor.)  
 John, F. J. (See Viktor and John.)  
 John, H., Erfurt, Germany. Shearing apparatus for rolled iron, &c. No. 919,874; Apr. 27; Sp. p. 6260; Gaz. vol. 141; p. 1068.  
 John J. Mitchell Co. (See Carlstrom, J. A., assignor.)  
 John Kiburz Pattern Company. (See Kiburz, J., assignor.)  
 John Kroder & Henry Reubel Co. (See Bartholomae, F., assignor.)  
 John Kroder & Henry Reubel Company. (See Maass, C. H., assignor.)  
 John L. Whiting-J. J. Adams Co. (See Wolcott, A. H., assignor.)  
 John Lauson Manufacturing Company. (See Lauson, H. D., assignor.)  
 John R. Kelm Mills. (See Smith, W. H., assignor.)  
 John Simmons Company. (See Rothchild, J., assignor.)  
 John Thomson Press Company. (See Thomson, J., assignor.)  
 Johnndrow, C. F., assignor of one-half to E. N. Elliott, Auburn, N. Y. Rail-sanding device. No. 940,025; Nov. 16; Sp. p. 3462; Gaz. vol. 148; p. 598.  
 Johns, F. P., Racine, Wis. Apparatus for metal-founding. No. 911,244; Feb. 2; Sp. p. 442; Gaz. vol. 139; p. 76.  
 Johns, A. F., Los Angeles, Cal., and W. X. Stevens, Washington, D. C.; said Stevens assignor to J. F. Walsh, Los Angeles, Cal. Oil-burner. No. 919,176; Apr. 20; Sp. p. 4574; Gaz. vol. 141; p. 798.  
 Johns, F. R., Cleveland, Ohio. Violin-support. No. 925,481; June 22; Sp. p. 4998; Gaz. vol. 143; p. 882.  
 Johns-Pratt Company. (See Cole, R. C., assignor.)  
 Johns-Pratt Company. (See Kempton, W. H., assignor.)  
 Johns, S. J. (See Seller, P., assignor.)  
 Johns, W. L., Soquel, Cal. Spring-tire. No. 941,926; Nov. 30; Sp. p. 7641; Gaz. vol. 148; p. 1287.  
 Johnsen, S., Bergedorf, near Hamburg, Germany. Expense-register. No. 919,587; Apr. 27; Sp. p. 5656; Gaz. vol. 141; p. 971.  
 Johnson, A. (See Ponten, A., assignor.)  
 Johnson, A., New York, N. Y. Drain-pan. No. 923,270; June 1; Sp. p. 379; Gaz. vol. 143; p. 52.  
 Johnson, A., Montclair, N. J. Tennis-court marker. No. 929,597; July 27; Sp. p. 5964; Gaz. vol. 144; p. 1047.  
 Johnson, A., North Bend, Oreg. Show-case. No. 940,251; Nov. 16; Sp. p. 3988; Gaz. vol. 148; p. 679.  
 Johnson, A., New York, N. Y. Non-refillable bottle. No. 915,441; Mar. 16; Sp. p. 3679; Gaz. vol. 140; p. 640.  
 Johnson, A. A., Marinette, Wis. Milk sampling and measuring device. No. 942,648; Dec. 7; Sp. p. 1288; Gaz. vol. 149; p. 210.  
 Johnson, A. C., J. M., H. E., and A. T., Sunnyvale, Cal. Traction-engine drive-wheel. No. 909,905; Jan. 19; Sp. p. 2976; Gaz. vol. 138; p. 552.  
 Johnson, A. E., Providence, R. I. Floor-surfacing machine. No. 927,409; July 6; Sp. p. 1415; Gaz. vol. 144; p. 235.  
 Johnson, A. E., Denver, Colo. Zinc-lathe. No. 932,782; Aug. 31; Sp. p. 6691; Gaz. vol. 145; p. 1148.  
 Johnson, A. F. and H. C., Forest, Idaho. Feeder for threshing-machines. No. 940,026; Nov. 16; Sp. p. 3465; Gaz. vol. 148; p. 599.  
 Johnson, A. H., Newnan, Ga. Alarm attachment. No. 915,605; Mar. 16; Sp. p. 4020; Gaz. vol. 140; p. 694.  
 Johnson, A. J. (See Deming, H. H., assignor.)  
 Johnson, A. K. (See Larsen and Johnson.)  
 Johnson, A. L., St. Louis, Mo. Metal reinforce. No. 917,304; Apr. 6; Sp. p. 715; Gaz. vol. 141; p. 122.  
 Johnson, A. M., Tate, Ga. Churn-operating mechanism. No. 934,537; Sept. 21; Sp. p. 3148; Gaz. vol. 146; p. 549.  
 Johnson, A. M., Early, Iowa. Regulator for gas-stoves. No. 940,391; Nov. 16; Sp. p. 4343; Gaz. vol. 148; p. 727.  
 Johnson, A. T. (See Johnson, A. C., J. M., H. E., and A. T.)  
 Johnson, A. W., Geary, Okla. Cotton-harvester. No. 928,662; July 20; Sp. p. 4083; Gaz. vol. 144; p. 711.  
 Johnson-Adams Switch Device Company. (See Johnson, S. A., assignor.)  
 Johnson, B. (See Sweet, W. F., assignor.)  
 Johnson, B. A., Heidelberg, Pa. Rail-joint. No. 917,447; Apr. 6; Sp. p. 974; Gaz. vol. 141; p. 169.  
 Johnson, C., Elgin, Ill. Intermittent grip mechanism. No. 918,451; Apr. 13; Sp. p. 3016; Gaz. vol. 141; p. 530.  
 Johnson, C., assignor to Meehan-Johnson Machine Co., Minneapolis, Minn. Machine for uniting matched boards. No. 915,096; Mar. 16; Sp. p. 2972; Gaz. vol. 140; p. 526.  
 Johnson, C. A. (See Whipple and Johnson.)  
 Johnson, C. A., et al. (See Thorin, P. A., assignor.)  
 Johnson, C. A., Stockholm, Sweden. Rotating pulp-strainer. No. 917,305; Apr. 6; Sp. p. 717; Gaz. vol. 141; p. 122.  
 Johnson, C. A., Northport, Wis. Skim-milk and whey measuring and delivering device. No. 923,183; June 1; Sp. p. 134; Gaz. vol. 143; p. 22.  
 Johnson, C. A., North Ridgeville, Ohio. Spring-power motor. No. 924,669; June 15; Sp. p. 3391; Gaz. vol. 143; p. 584.  
 Johnson, C. A., Everett, Mass. Directory-board. No. 937,308; Oct. 19; Sp. p. 3550; Gaz. vol. 147; p. 614.  
 Johnson, C. A., assignor of one-fifth to J. T. Coleman, Tolar, N. Mex. Self-closing gas-burner. No. 939,263; Nov. 9; Sp. p. 1763; Gaz. vol. 148; p. 306.



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- Johnson, C. A., and A. L. Mills, North Ridgeville, Ohio. Catch-basin cover. No. 918,860; Apr. 20; Sp. p. 3957; Gaz. vol. 141; p. 696.
- Johnson, C. C., Bethany, Ill. Switch-operating device. No. 926,570; June 29; Sp. p. 7215; Gaz. vol. 143; p. 1276.
- Johnson, C. C., Scranton, assignor of nine-tenths to J. A. Watson, Pittston, Pa. Insulator-mold. No. 913,212; Feb. 23; Sp. p. 4509; Gaz. vol. 139; p. 812.
- Johnson, C. E., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Money-receptacle. No. 915,676; Mar. 16; Sp. p. 4184; Gaz. vol. 140; p. 721.
- Johnson, C. E., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Padlock. No. 928,201; July 13; Sp. p. 3099; Gaz. vol. 144; p. 527.
- Johnson, C. E., assignor of one-half to W. W. Piddington, Los Angeles, Cal. Motor attachment for sewing-machines and the like. No. 933,710; Sept. 7; Sp. p. 1530; Gaz. vol. 146; p. 231.
- Johnson, C. E., assignor of one-half to W. W. Piddington, Los Angeles, Cal. Electric heater. No. 933,989; Sept. 14; Sp. p. 2087; Gaz. vol. 146; p. 344.
- Johnson, C. G., Nashville, Tenn. Making butter. No. 909,802; Jan. 12; Sp. p. 2755; Gaz. vol. 138; p. 485.
- Johnson, C. H., Petaluma, Cal. Seal attachment for locks. No. 939,699; Nov. 9; Sp. p. 2764; Gaz. vol. 148; p. 456.
- Johnson, C. H., assignor to W. L. Lindsley, Detroit, Mich. Cradle. No. 941,927; Nov. 30; Sp. p. 7642; Gaz. vol. 148; p. 1287.
- Johnson, C. J., St. Louis, Mo. Regulator for gas-jets. No. 923,531; June 1; Sp. p. 929; Gaz. vol. 143; p. 144.
- Johnson, C. J., Denver, Colo. Device for preventing hold-ups on locomotives. No. 933,565; Sept. 7; Sp. p. 1236; Gaz. vol. 146; p. 182.
- Johnson, C. J. F., assignor of one-half to T. H. Baynes, Cleveland, Ohio. Billet-heating furnace. No. 938,424; Oct. 26; Sp. p. 5941; Gaz. vol. 147; p. 1007.
- Johnson, C. N., Traverse City, Mich. Fruit-clipper. No. 917,609; Apr. 6; Sp. p. 1261; Gaz. vol. 141; p. 222.
- Johnson, C. N., assignor of one-fourth to O. E. Hollowell, Vincennes, Ind., and one-fourth to J. E. Inskip, Mount Carmel, Ill. Barrel. No. 933,307; Sept. 7; Sp. p. 621; Gaz. vol. 146; p. 96.
- Johnson, C. P., Eureka, Kans. Yielding buggy-top support. No. 940,158; Nov. 16; Sp. p. 3783; Gaz. vol. 148; p. 645.
- Johnson, C. S., Boston, Mass. Thermostatic instrument. No. 912,573; Feb. 16; Sp. p. 3212; Gaz. vol. 139; p. 576.
- Johnson, C. W., *et al.* (See Zieme, C. H., assignor.)
- Johnson, C. W., San Francisco, Cal. Floor-scraper. No. 923,271; June 1; Sp. p. 380; Gaz. vol. 143; p. 52.
- Johnson, C. W., Chicago, Ill. Roundhouse system. No. 929,857; Aug. 3; Sp. p. 500; Gaz. vol. 145; p. 80.
- Johnson, D., London, England. Furnace. No. 911,400; Feb. 2; Sp. p. 735; Gaz. vol. 139; p. 127.
- Johnson, D. F., Cedar Falls, Iowa. Incandescent gas-lamp. No. 910,202; Jan. 19; Sp. p. 3584; Gaz. vol. 138; p. 650.
- Johnson, E., Pittsburg, Pa. Automatic electric fire-alarm. No. 916,711; Mar. 30; Sp. p. 6191; Gaz. vol. 140; p. 1109.
- Johnson, E., Montclair, N. J. Blind-closer. No. 917,448; Apr. 6; Sp. p. 975; Gaz. vol. 141; p. 169.
- Johnson, E., Cincinnati, Ohio. Garment-fastener. No. 918,160; Apr. 13; Sp. p. 2431; Gaz. vol. 141; p. 436.
- Johnson, E., Schenectady, N. Y., assignor to General Electric Company. Circuit-controlling device. No. 937,442; Oct. 19; Sp. p. 3863; Gaz. vol. 147; p. 658.
- Johnson, E. A., Lovell, Okla. Wagon-brake. No. 938,241; Oct. 26; Sp. p. 5533; Gaz. vol. 147; p. 945.
- Johnson, E. D., *et al.* (See Boyens, W. F. A., assignor.)
- Johnson, E. E., St. Paul, Minn. Making turnbuckles. No. 935,659; Oct. 5; Sp. p. 67; Gaz. vol. 147; p. 13.
- Johnson, E. E., St. Paul, Minn. Making turnbuckles. No. 935,660; Oct. 5; Sp. p. 68; Gaz. vol. 147; p. 13.
- Johnson, E. G., and J. Leider, Winnipeg, Manitoba, Canada. Coupling. No. 928,055; July 13; Sp. p. 2816; Gaz. vol. 144; p. 479.
- Johnson, E. M., Denver, Colo. Sweat-band. No. 917,873; Apr. 13; Sp. p. 1836; Gaz. vol. 141; p. 335.
- Johnson, E. S., assignor of one-half to W. J. Knight, Oakland, Cal. Pneumatic packing. No. 943,023; Dec. 14; Sp. p. 2145; Gaz. vol. 149; p. 367.
- Johnson, E. V., Chicago, Ill. Concrete column. No. 922,910; May 25; Sp. p. 5810; Gaz. vol. 142; p. 1013.
- Johnson, E. V., Chicago, Ill. Column for buildings and other structures. No. 926,747; July 6; Sp. p. 86; Gaz. vol. 144; p. 13.
- Johnson, E. W., East Palatka, Fla. Assorting and sizing apparatus. No. 932,783; Aug. 31; Sp. p. 6693; Gaz. vol. 145; p. 1148.
- Johnson Electric Machine Company. (See Thompson, J. H., assignor.)
- Johnson, F., *et al.* (See Dennis, J. M., assignor.)
- Johnson, F., Racine, Wis. Sewing-machine needle. No. 925,813; June 22; Sp. p. 5720; Gaz. vol. 143; p. 991.
- Johnson, F., Cherrilyn, Colo. Lifting-pliers. No. 944,966; Dec. 28; Sp. p. 6511; Gaz. vol. 149; p. 1084.
- Johnson, F. A., Moosic, Pa. Shoe-polishing stand. No. 932,868; Aug. 31; Sp. p. 6846; Gaz. vol. 145; p. 1175.
- Johnson, F. A., Salisbury, Mass. Rotary carrier. No. 939,700; Nov. 9; Sp. p. 2765; Gaz. vol. 148; p. 456.
- Johnson, F. C. (See Mitchell, H. G., assignor.)
- Johnson, F. G., assignor to Eureka Reverse Gear Company, Hartford, Conn. Reverse-gearing. No. 920,065; Apr. 27; Sp. p. 6644; Gaz. vol. 141; p. 1130.
- Johnson, F. I. (See Quigley, S., assignor.)
- Johnson, F. J. (See Anderson, I. N., assignor.)
- Johnson, F. M. (See Holcomb, A. E., assignor.)
- Johnson, F. N., Rowlett, Tex. Churn-operating mechanism. No. 924,994; June 15; Sp. p. 4079; Gaz. vol. 143; p. 694.
- Johnson, F. T., Chicago, Ill. Clothes-drier. No. 913,823; Mar. 2; Sp. p. 298; Gaz. vol. 140; p. 51.
- Johnson, F. W., Excelsior, Minn. Water-motor. No. 931,875; Aug. 24; Sp. p. 4762; Gaz. vol. 145; p. 823.
- Johnson, G. (See Landers and Johnson.)
- Johnson, G., Kaleva, Mich. Water-closet cabinet for infants. No. 915,442; Mar. 16; Sp. p. 3680; Gaz. vol. 140; p. 640.
- Johnson, G. A., Springfield, Mass. Safety-razor. No. 934,074; Sept. 14; Sp. p. 2247; Gaz. vol. 146; p. 370.
- Johnson, G. B., and R. C. Cotton, Pawnee City, Nebr. Curtain-fastener. No. 937,998; Oct. 26; Sp. p. 5003; Gaz. vol. 147; p. 862.
- Johnson, G. B., London, England. Machine for shearing metal sheets. No. 941,199; Nov. 23; Sp. p. 6085; Gaz. vol. 148; p. 1021.
- Johnson, G. C., Dillon, S. C. Suspensory. No. 919,875; Apr. 27; Sp. p. 6262; Gaz. vol. 141; p. 1068.
- Johnson, G. E., Des Moines, Iowa. Acetylene-gas generator. No. 912,380; Feb. 16; Sp. p. 2797; Gaz. vol. 139; p. 510.
- Johnson, G. F., assignor to M. W. Turner and J. A. Harris, Thomson, Ga. Vending-machine. No. 938,767; Nov. 2; Sp. p. 678; Gaz. vol. 148; p. 106.
- Johnson, G. H., Chicago, Ill. Fire-escape. No. 914,661; Mar. 9; Sp. p. 2099; Gaz. vol. 140; p. 357.
- Johnson, G. H., Arnprior, Ontario, Canada. Dredge. No. 926,122; June 29; Sp. p. 6350; Gaz. vol. 143; p. 1127.
- Johnson, G. H., Pittsfield, Mass., assignor of one-half to C. W. Sponsel, Hartford, Conn. Elevator-gate-operating mechanism. No. 923,847; June 8; Sp. p. 1687; Gaz. vol. 143; p. 280.
- Johnson, G. J., Crockett, Tex. Curtain-fixture. No. 926,193; June 29; Sp. p. 6521; Gaz. vol. 143; p. 1153.
- Johnson, G. R., Chelmsford, Mass. Railway-switch device. No. 941,522; Nov. 30; Sp. p. 6782; Gaz. vol. 148; p. 1149.
- Johnson, G. T., Melrose, Mass. Toilet-paper cabinet or fixture. No. 921,843; May 18; Sp. p. 3624; Gaz. vol. 142; p. 639.
- Johnson, G. T., Melrose, Mass. Toilet-paper package. No. 941,715; Nov. 30; Sp. p. 7194; Gaz. vol. 148; p. 1213.
- Johnson, H. (See Johnson, V. A. and H.)
- Johnson, H., assignor of one-third to J. Ohlson, Norway, Mich. Churn. No. 912,852; Feb. 16; Sp. p. 3802; Gaz. vol. 139; p. 669.
- Johnson, H. B., assignor to Lock Joint Bale Tie Company, Atlanta, Ga. Splicer for bale-bands. No. 910,385; Jan. 19; Sp. p. 3990; Gaz. vol. 138; p. 717.
- Johnson, H. C. (See Johnson, A. F. and H. C.)
- Johnson, H. E. (See Johnson, A. C., J. M., H. E., and A. T.)
- Johnson, H. H. (See Johnson, J. O., assignor.)
- Johnson, H. N., *et al.* (See Libby, P. A., assignor.)
- Johnson, H. O., Virginia, Minn. Sample-display apparatus. No. 921,713; May 18; Sp. p. 3339; Gaz. vol. 142; p. 595.
- Johnson, H. S., assignor to Gisholt Machine Company, Madison, Wis. Bar stock-feeder for use in turret-lathes, screw-machines, and the like. No. 932,394; Aug. 24; Sp. p. 5832; Gaz. vol. 145; p. 996.
- Johnson, H. S., assignor to Gisholt Machine Company, Madison, Wis. Chuck. No. 932,709; Aug. 31; Sp. p. 6524; Gaz. vol. 145; p. 1124.
- Johnson, H. W., St. Louis, Mo. Metal window-screen. No. 918,676; Apr. 20; Sp. p. 3569; Gaz. vol. 141; p. 634.
- Johnson, I., Seattle, Wash. Door-hanger. No. 923,272; June 1; Sp. p. 381; Gaz. vol. 143; p. 53.
- Johnson, I., Tacoma, Wash. Combined window lift and lock. No. 925,914; June 22; Sp. p. 5933; Gaz. vol. 143; p. 1024.
- Johnson, J., Fremont, Ohio. Attachment for invalid-bedsteads. No. 924,075; June 8; Sp. p. 2114; Gaz. vol. 143; p. 353.
- Johnson, J., Lynn, Mass., assignor to General Electric Company. Bearing for the shafts of delicate instruments. No. 923,184; June 1; Sp. p. 136; Gaz. vol. 143; p. 22.
- Johnson, J. A., Huron, S. D. Dress-chart. No. 910,203; Jan. 19; Sp. p. 3587; Gaz. vol. 138; p. 651.
- Johnson, J. A., Portland, Oreg. Harrow-tooth fastener. No. 924,993; June 15; Sp. p. 4078; Gaz. vol. 143; p. 694.
- Johnson, J. A., Chicago, Ill. Collapsible stool. No. 908,999; Jan. 5; Sp. p. 1170; Gaz. vol. 138; p. 186.
- Johnson, J. C., Randolph, Iowa. Gasoline-engine. No. 940,027; Nov. 16; Sp. p. 3467; Gaz. vol. 148; p. 599.
- Johnson, J. D. A., Omaha, Nebr. Mechanical movement. No. 913,145; Feb. 23; Sp. p. 4378; Gaz. vol. 139; p. 791.
- Johnson, J. D. A., Omaha, Nebr. Mechanical movement. No. 915,606; Mar. 16; Sp. p. 4022; Gaz. vol. 140; p. 694.

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- Johnson, J. E. (See Harris, Johnson, and Soest.)  
 Johnson, J. E. (See Holmgren, J. A., assignor.)  
 Johnson, J. E., Meriden, Conn. Caster. No. 909,305; Jan. 12; Sp. p. 1787; Gaz. vol. 138; p. 320.  
 Johnson, J. E., Meriden, Conn. Caster. No. 942,565; Dec. 7; Sp. p. 1120; Gaz. vol. 149; p. 182.  
 Johnson, J. E., Ishpeming, Mich. Skating-sail. No. 915,677; Mar. 16; Sp. p. 4186; Gaz. vol. 140; p. 722.  
 Johnson, J. E., Jr., Long Dale, Va. Apparatus for separating oxygen from air. No. 933,462; Sept. 7; Sp. p. 975; Gaz. vol. 146; p. 147.  
 Johnson, J. H., Appleton, Minn. Automatic putty-knife. No. 924,469; June 8; Sp. p. 2954; Gaz. vol. 143; p. 483.  
 Johnson, J. J., Dayton, Ohio. Photography. No. 935,760; Oct. 5; Sp. p. 295; Gaz. vol. 147; p. 47.  
 Johnson, J. J., Newark, N. J. Core-oven. No. 935,990; Oct. 5; Sp. p. 831; Gaz. vol. 147; p. 124.  
 Johnson, J. M. (See Johnson, A. C., J. M., H. E., and A. T.)  
 Johnson, J. M., Ishpeming, Mich. Recording mechanism. No. 935,661; Oct. 5; Sp. p. 69; Gaz. vol. 147; p. 13.  
 Johnson, J. M., Chicago, Ill., assignor to C. H. Birdsall, Washington, D. C. Coin separator and counter. No. 915,965; Mar. 23; Sp. p. 4737; Gaz. vol. 140; p. 840.  
 Johnson, J. M., and G. W. Noble, Belleville, Kans. Stove. No. 941,321; Nov. 23; Sp. p. 6335; Gaz. vol. 148; p. 1059.  
 Johnson, J. O., Grantsburg, Wis. Combination-wrench. No. 932,136; Aug. 24; Sp. p. 5343; Gaz. vol. 145; p. 911.  
 Johnson, J. O., Visalia, assignor of one-half to H. H. Johnson, Dinuba, Cal. Sweeping-machine. No. 928,456; July 20; Sp. p. 3658; Gaz. vol. 144; p. 644.  
 Johnson, J. R., Louisville, Ky. Fruit-picker. No. 941,258; Nov. 23; Sp. p. 6199; Gaz. vol. 148; p. 1040.  
 Johnson, J. S., Lodi, Ohio. Recoil-pad. No. 943,683; Dec. 21; Sp. p. 3570; Gaz. vol. 149; p. 622.  
 Johnson, J. W. (See Van Nostram, J. E., assignor.)  
 Johnson, J. W., Custer, Okla. Automatic gate. No. 932,473; Aug. 31; Sp. p. 6015; Gaz. vol. 145; p. 1044.  
 Johnson, J. W., Kansas City, Mo. Package-tie. No. 929,952; Aug. 3; Sp. p. 704; Gaz. vol. 145; p. 112.  
 Johnson, J. W., Custer, Okla. Car-brake. No. 939,701; Nov. 9; Sp. p. 2768; Gaz. vol. 148; p. 457.  
 Johnson, J. W., Bisbee, Ariz. Rotary steam-engine. No. 942,205; Dec. 7; Sp. p. 380; Gaz. vol. 149; p. 58.  
 Johnson, J. W., assignor of one-half to T. J. McGall, Pittsburg, Pa. Automatic signal device for railways. No. 923,793; June 1; Sp. p. 1554; Gaz. vol. 143; p. 232.  
 Johnson & Johnson. (See Clark, A. W., assignor.)  
 Johnson and Johnson. (See Eckrode, C. E., assignor.)  
 Johnson and Johnson. (See Lee, J. E., assignor.) (Reissue.)  
 Johnson, L., Oak Park, Ill. Toy block. No. 927,545; July 13; Sp. p. 1728; Gaz. vol. 144; p. 308.  
 Johnson, L. F. (See Johnson, M. M., assignor.)  
 Johnson, L. F., Chicago, Ill., assignor, by mesne assignments, to P. & O. Electric Co. Electric motor. No. 918,861; Apr. 20; Sp. p. 3959; Gaz. vol. 141; p. 696.  
 Johnson, M. (See Smith and Johnson.)  
 Johnson, M., Minnesota, Minn. Animal-trap. No. 927,149; July 6; Sp. p. 935; Gaz. vol. 144; p. 151.  
 Johnson, M. B., Alabama City, Ala. Ear-coner parer. No. 935,517; Sept. 28; Sp. p. 5123; Gaz. vol. 146; p. 900.  
 Johnson, M. E., trustee. (See Leggett, E., assignor.)  
 Johnson, M. E., trustee. (See Ringqvist, O. W., assignor.)  
 Johnson, M. E., Pittsburg, Pa. Fence-stretcher. No. 935,030; Sept. 28; Sp. p. 4131; Gaz. vol. 146; p. 740.  
 Johnson, M. H., Utica, N. Y. Electrically-heated soldering-machine. No. 934,538; Sept. 21; Sp. p. 3149; Gaz. vol. 146; p. 549.  
 Johnson, M. H., Utica, N. Y. Electrically-heated soldering-iron for can-capping machines. No. 934,539; Sept. 21; Sp. p. 3151; Gaz. vol. 146; p. 550.  
 Johnson, M. M., et al. (See Vanderslice, T. J., assignor.)  
 Johnson, M. M., Denver, Colo., assignor to L. F. Johnson, Jefferson, Tex. Garment-fitting device. No. 911,045; Feb. 2; Sp. p. 39; Gaz. vol. 139; p. 9.  
 Johnson, M. M., Denver, Colo., assignor to L. F. Johnson, Jefferson, Tex. Garment-fitting device. No. 911,046; Feb. 2; Sp. p. 43; Gaz. vol. 139; p. 10.  
 Johnson, M. R., Bozeman, Mont. Burial-casket. No. 910,386; Jan. 19; Sp. p. 3991; Gaz. vol. 138; p. 717.  
 Johnson, M. R., Bozeman, Mont. Cockeye. No. 912,132; Feb. 9; Sp. p. 2262; Gaz. vol. 139; p. 391.  
 Johnson, N. R. (See Griffin and Johnson.)  
 Johnson, O. (See Shaw and Johnson.)  
 Johnson, O., Clear Lake, S. D. Register for pool and billiard games. No. 914,420; Mar. 9; Sp. p. 1631; Gaz. vol. 140; p. 278.  
 Johnson, O. B., et al. (See Johnson, R. E., assignor.)  
 Johnson, O. B., Garfield, Wash. Automatic fire-alarm. No. 913,146; Feb. 23; Sp. p. 4381; Gaz. vol. 139; p. 791.  
 Johnson, O. B., and E. A. Long, assignors to Long Distance Telephone Manufacturing Co., South Bend, Ind. Floor-dressing machine. No. 935,911; Oct. 5; Sp. p. 666; Gaz. vol. 147; p. 97.  
 Johnson, O. S., et al. (See Todd, J. W., Jr., assignor.)  
 Johnson, O. W., Cleveland, Ohio. Stacker for folding-machines. No. 932,283; Aug. 24; Sp. p. 5625; Gaz. vol. 145; p. 960.  
 Johnson, P. (See Rodgers, J., assignor.)  
 Johnson, P. A., et al. (See Kenney, F., assignor.)  
 Johnson, P. A., Blackfoot, Idaho. Steam-separator. No. 918,326; Apr. 13; Sp. p. 2769; Gaz. vol. 141; p. 490.  
 Johnson, P. A., Lyle, Minn. Pipe-coupling. No. 929,858; Aug. 3; Sp. p. 503; Gaz. vol. 145; p. 80.  
 Johnson, P. B., Chicago, Ill. Inverted lamp. No. 933,734; Sept. 7; Sp. p. 1593; Gaz. vol. 146; p. 241.  
 Johnson, P. J. (See Ramstead and Johnson.)  
 Johnson, P. L., Easley, S. C. Horse-collar and hames. No. 944,618; Dec. 28; Sp. p. 5586; Gaz. vol. 149; p. 969.  
 Johnson, R., Brown Station, N. Y. Coupling. No. 932,869; Aug. 31; Sp. p. 6848; Gaz. vol. 145; p. 1175.  
 Johnson, R. C., Fort Benton, Mont. Combination-tool. No. 932,710; Aug. 31; Sp. p. 6527; Gaz. vol. 145; p. 1124.  
 Johnson, R. E., Caledonia, Minn. Tire-armor. No. 937,812; Oct. 26; Sp. p. 4614; Gaz. vol. 147; p. 799.  
 Johnson, R. E., assignor of two-thirds to O. B. Johnson and G. Jenssen, Spokane, Wash. Automatic railway-switch. No. 911,129; Feb. 2; Sp. p. 202; Gaz. vol. 139; p. 38.  
 Johnson, R. E., assignor of one-half to J. W. Smith, Spokane, Wash. Match-box. No. 912,381; Feb. 16; Sp. p. 2799; Gaz. vol. 139; p. 511.  
 Johnson, R. E., Kingston, assignor of forty-five one-hundredths to J. Dolan, Jr., New York, N. Y. Spring-bending machine. No. 929,309; July 27; Sp. p. 5426; Gaz. vol. 144; p. 954.  
 Johnson, R. N., and E. Newberg, Brockton, assignors to F. W. Whitche Company, Boston, Mass. Pincers. No. 929,310; July 27; Sp. p. 5428; Gaz. vol. 144; p. 954.  
 Johnson, S. (See Harmer, E. L., assignor.)  
 Johnson, S. A., Grogan, Ohio. Automatic switch-throwing, track sanding and sweeping device. No. 920,066; Apr. 27; Sp. p. 6646; Gaz. vol. 141; p. 1131.  
 Johnson, S. A., Grogan, assignor to Johnson-Adams Switch Device Company, Columbus, Ohio. Automatic switch-throwing, track sanding, and sweeping device. No. 943,938; Dec. 21; Sp. p. 4102; Gaz. vol. 149; p. 711.  
 Johnson, S. J., Minneapolis, Minn. Clothes-pin. No. 917,950; Apr. 13; Sp. p. 1993; Gaz. vol. 141; p. 363.  
 Johnson, S. M., Chicago, Ill. Hose and pipe coupling. No. 941,150; Nov. 23; Sp. p. 5976; Gaz. vol. 148; p. 1005.  
 Johnson, S. R., Winston, Mo. Fence construction. No. 916,322; Mar. 23; Sp. p. 5394; Gaz. vol. 140; p. 958.  
 Johnson, S. W., Le Raysville, Pa. Punching-bag. No. 925,342; June 15; Sp. p. 4719; Gaz. vol. 143; p. 806.  
 Johnson, T. (See Brown and Johnson.)  
 Johnson, T., Trempealeau, assignor of one-half to T. Mason, Galesville, Wis. Rail tie and fastener. No. 918,452; Apr. 13; Sp. p. 3017; Gaz. vol. 141; p. 530.  
 Johnson, T. C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Firearm. No. 933,253; Sept. 7; Sp. p. 515; Gaz. vol. 146; p. 79.  
 Johnson, T. C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Firearm. No. 933,308; Sept. 7; Sp. p. 622; Gaz. vol. 146; p. 97.  
 Johnson, T. C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Firearm. No. 943,251; Dec. 14; Sp. p. 2623; Gaz. vol. 149; p. 444.  
 Johnson, T. G., Kansas City, Mo. Adjustable mold. No. 915,863; Mar. 23; Sp. p. 4547; Gaz. vol. 140; p. 808.  
 Johnson, T. W. (See Hawes, B. N., assignor.)  
 Johnson, T. W., North Attleboro, Mass. Rotary brush. No. 937,610; Oct. 19; Sp. p. 4199; Gaz. vol. 147; p. 715.  
 Johnson, V., Aspen, Colo. Vegetable-slicer. No. 940,252; Nov. 16; Sp. p. 3991; Gaz. vol. 148; p. 679.  
 Johnson, V. A., Gdliiver, Mich. Pocket-knife. No. 930,548; Aug. 10; Sp. p. 1907; Gaz. vol. 145; p. 336.  
 Johnson, V. A. and H. Holden, W. Va. Trap-door for mines. No. 925,915; June 22; Sp. p. 5935; Gaz. vol. 143; p. 1024.  
 Johnson, W. (See Callan and Johnson.)  
 Johnson, W., Middletown, Conn. Swing. No. 909,906; Jan. 19; Sp. p. 2977; Gaz. vol. 138; p. 552.  
 Johnson, W., Middletown, Conn. Swing. No. 923,974; June 8; Sp. p. 1933; Gaz. vol. 143; p. 322.



*Alphabetical list of patentees—Continued.*

- Johnson, W., Lynn, Mass., assignor to General Electric Company. Combined emergency and throttle valve. No. 921,997; May 18; Sp. p. 3931; Gaz. vol. 142; p. 688.
- Johnson, W. B., assignor to Rockford Machine & Shuttle Company, Rockford, Ill. Hemstitching attachment for sewing-machines. No. 918,750; Apr. 20; Sp. p. 3723; Gaz. vol. 141; p. 660.
- Johnson, W. C., *et al.* (See Larsh, J. M., assignor.)
- Johnson, W. C., Colemans Hatch, England. Water-distributor. No. 928,386; July 20; Sp. p. 3517; Gaz. vol. 144; p. 621.
- Johnson, W. E. (See Leitner and Johnson.)
- Johnson, W. E., Sunrise, Wyo. Railway-tie and rail-fastening. No. 930,478; Aug. 10; Sp. p. 1718; Gaz. vol. 145; p. 310.
- Johnson, W. E., assignor to Rock Island Plow Company, Rock Island, Ill. Cultivator. No. 940,159; Nov. 16; Sp. p. 3784; Gaz. vol. 148; p. 645.
- Johnson, W. E., assignor to Rock Island Plow Company, Rock Island, Ill. Guarded-end steel-lever harrow. No. 940,160; Nov. 16; Sp. p. 3790; Gaz. vol. 148; p. 646.
- Johnson, W. H., Brandon, Nt. Machine for printing pencils. No. 910,289; Jan. 19; Sp. p. 3800; Gaz. vol. 138; p. 684.
- Johnson, W. H., Colgate, N. D. Mail-box. No. 922,147; May 18; Sp. p. 4218; Gaz. vol. 142; p. 737.
- Johnson, W. H., Des Moines, Iowa. Gearing device for washing-machines. No. 940,253; Nov. 16; Sp. p. 3992; Gaz. vol. 148; p. 679.
- Johnson, W. L., Buffalo, N. Y. Milk-bottle holder. No. 927,802; July 13; Sp. p. 2280; Gaz. vol. 144; p. 394.
- Johnson, W. L., Raton, N. Mex. Ter. Fly-brush for screen-doors. No. 932,474; Aug. 31; Sp. p. 6018; Gaz. vol. 145; p. 1045.
- Johnson, W. M., assignor to Continuous Zinc Furnace Company, Hartford, Conn. Distillation-furnace. No. 920,473; May 4; Sp. p. 767; Gaz. vol. 142; p. 124.
- Johnson, W. M., La Harpe, Kans., assignor to Continuous Zinc Furnace Company, Hartford, Conn. Metallurgical condenser. No. 933,843; Sept. 14; Sp. p. 1803; Gaz. vol. 146; p. 297.
- Johnson, W. M., Iola, Kans., assignor to Continuous Zinc Furnace Company, Hartford, Conn. Electrical heating. No. 937,074; Oct. 19; Sp. p. 3059; Gaz. vol. 147; p. 537.
- Johnson, W. O., Blunt, S. D. Attachment for combination-locks. No. 919,177; Apr. 20; Sp. p. 4576; Gaz. vol. 141; p. 798.
- Johnson, W. P., Plumtree, N. C. Bit-brace. No. 923,848; June 8; Sp. p. 1691; Gaz. vol. 143; p. 281.
- Johnson, W. R., Newport, Nebr. Lifting-jack. No. 917,874; Apr. 13; Sp. p. 1838; Gaz. vol. 141; p. 335.
- Johnson, W. S., *et al.* (See Dennis, J. M., assignor.)
- Johnson, W. S., Milwaukee, Wis. Hygrometric valve-controlling device. No. 924,235; June 8; Sp. p. 2503; Gaz. vol. 143; p. 407.
- Johnson, W. S., Pittsburg, Pa. Drain-board. No. 933,180; Sept. 7; Sp. p. 310; Gaz. vol. 146; p. 51.
- Johnson, W. T., *et al.* (See Dunaway, N. S., assignor.)
- Johnson, A. (See Johnson, F. J., assignor.)
- Johnson, A., Ottumwa, Iowa. Metal-crimping machine. No. 944,559; Dec. 28; Sp. p. 5460; Gaz. vol. 149; p. 948.
- Johnson, A. C., Wyncote, Pa., assignor to Dodge Coal Storage Company, Naugatuck, Conn. Apparatus for transferring material from a high to a lower level. No. 942,449; Dec. 7; Sp. p. 868; Gaz. vol. 149; p. 142.
- Johnson, C., Boyes, Mont. Wheel-guard. No. 911,881; Feb. 9; Sp. p. 1666; Gaz. vol. 139; p. 309.
- Johnson, C. F., Milledgeville, Ill. Draft appliance. No. 944,138; Dec. 21; Sp. p. 4527; Gaz. vol. 149; p. 777.
- Johnson, C. S., Glendive, Mont. Cycle. No. 914,492; Mar. 9; Sp. p. 1762; Gaz. vol. 140; p. 302.
- Johnson, E. A., Akron, Ohio, assignor to International Harvester Company. Changeable-speed gearing. No. 932,611; Aug. 31; Sp. p. 6332; Gaz. vol. 145; p. 1092.
- Johnson, E. H., Philadelphia, Pa. Railway tie and cushion. No. 935,307; Sept. 28; Sp. p. 4686; Gaz. vol. 146; p. 832.
- Johnson, E. N., U. S. Army. Rifleman's score-sheet. No. 917,732; Apr. 6; Sp. p. 1499; Gaz. vol. 141; p. 262.
- Johnson, E. N., U. S. Army. Conveying apparatus. No. 919,178; Apr. 20; Sp. p. 4576; Gaz. vol. 141; p. 798.
- Johnson, F. J., assignor to A. Johnson, San Francisco, Cal. Target. No. 926,003; June 22; Sp. p. 6091; Gaz. vol. 143; p. 1053.
- Johnson, G. W., Springfield, assignor to Chapman Valve Manufacturing Company, Indian Orchard, Mass. Hydrant. No. 928,663; July 20; Sp. p. 4084; Gaz. vol. 144; p. 711.
- Johnson, H. A., Toronto, Ontario, Canada. Igniter for internal-combustion motors. No. 942,328; Dec. 7; Sp. p. 635; Gaz. vol. 149; p. 101.
- Johnson, H. C., Rochester, Pa. Float for flushing-tanks. No. 927,354; July 6; Sp. p. 1308; Gaz. vol. 144; p. 217.
- Johnson, H. G., Corsicana, Tex. Hydraulic swivel. No. 929,933; Aug. 3; Sp. p. 705; Gaz. vol. 145; p. 112.
- Johnson, H. L., Troy, Ohio. Support for vehicle-umbrellas and vehicle-canopies. No. 918,056; Apr. 13; Sp. p. 2230; Gaz. vol. 141; p. 401.
- Johnson, H. L., assignor to Troy Carriage Sun Shade Company, Troy, Ohio. Tip for umbrella-ribs. No. 926,255; June 29; Sp. p. 6647; Gaz. vol. 143; p. 1173.
- Johnson, H. L., assignor to Troy Carriage Sun Shade Company, Troy, Ohio. Hinge for umbrella braces and ribs. No. 926,256; June 29; Sp. p. 6648; Gaz. vol. 143; p. 1173.
- Johnson, H. S., Apollo, Pa. Eyeglasses. No. 918,055; Apr. 13; Sp. p. 2229; Gaz. vol. 141; p. 400.
- Johnson, J. (See Potter and Johnson.)
- Johnson, J., Medford, Mass. Vise. No. 917,306; Apr. 6; Sp. p. 719; Gaz. vol. 141; p. 123.
- Johnson, J., Atkinson, Ill. Clothes-stick. No. 927,546; July 13; Sp. p. 1728; Gaz. vol. 144; p. 309.
- Johnson, J. A., Emporium, Pa. Folder for dynamite-shell machines. No. 914,578; Mar. 9; Sp. p. 1939; Gaz. vol. 140; p. 331.
- Johnson, J. D., *et al.* (See Pritchett, J. F., assignor.)
- Johnson, J. E., Oberlin, Ohio. Apparatus for cooling and preserving milk. No. 918,862; Apr. 20; Sp. p. 3961; Gaz. vol. 141; p. 696.
- Johnson, J. M., *et al.* (See Anderson, T. W., assignor.)
- Johnson, J. N., Butler, Pa. Rope-socket clamp. No. 932,556; Aug. 31; Sp. p. 6189; Gaz. vol. 145; p. 1073.
- Johnson, J. S., Utica, N. Y. Air operated and controlled mechanism. No. 909,907; Jan. 19; Sp. p. 2978; Gaz. vol. 138; p. 552.
- Johnson, J. S., Utica, and C. A. Powell, Whitesboro, N. Y. Sewing-machine. No. 924,236; June 8; Sp. p. 2505; Gaz. vol. 143; p. 407.
- Johnson, J. Z., *et al.* (See Pritchett, J. F., assignor.)
- Johnson, L., Neffs Mills, Pa. Rail-joint. No. 910,067; Jan. 19; Sp. p. 3290; Gaz. vol. 138; p. 607.
- Johnson, L. B., Lorain, Ohio. Mail-bag catcher and deliverer. No. 917,307; Apr. 6; Sp. p. 723; Gaz. vol. 141; p. 123.
- Johnson, L. E., assignor of one-third to W. L. Nelson, Boss, Mo. Self-waiting dining-table. No. 938,242; Oct. 26; Sp. p. 5535; Gaz. vol. 147; p. 946.
- Johnson, M. H., Galesburg, Ill. Vending-machine. No. 936,726; Oct. 12; Sp. p. 2367; Gaz. vol. 147; p. 393.
- Johnson Novelty & Mill Specialty Co. (See Murphy, T. H., assignor.)
- Johnson, P. D., Cold Spring, N. Y., assignor to American Oil Engine Company. Vaporizer for internal-combustion engines. No. 943,684; Dec. 21; Sp. p. 3570; Gaz. vol. 149; p. 622.
- Johnson, R. E. L., Denver, Colo. Washing-machine. No. 909,803; Jan. 12; Sp. p. 2756; Gaz. vol. 138; p. 485.
- Johnson, R. M., Morristown, Tenn. Threshing-machine. No. 917,308; Apr. 6; Sp. p. 725; Gaz. vol. 141; p. 124.
- Johnson, R. M., assignor to Humphrey Manufacturing Company, Mansfield, Ohio. Compressed-air spraying and coating machine. No. 921,409; May 11; Sp. p. 2712; Gaz. vol. 142; p. 466.
- Johnson, R. T., Plainfield, N. J., assignor to Campbell Printing Press & Manufacturing Company, New York, N. Y. Mechanical movement. No. 941,639; Nov. 30; Sp. p. 7010; Gaz. vol. 148; p. 1186.
- Johnson, W. D., New York, N. Y. Concrete block for cribwork and the like. No. 923,975; June 8; Sp. p. 1935; Gaz. vol. 143; p. 322.
- Johnson, W. H. (See McDonald, D. W., assignor.)
- Johnson, W. T., Newport, Ky. Machine for chasing pipe-threads and like work. No. 938,058; Oct. 26; Sp. p. 5131; Gaz. vol. 147; p. 882.
- Johnson, W. V., Everett, Wash. Safety-stirrups. No. 942,781; Dec. 7; Sp. p. 1547; Gaz. vol. 149; p. 254.
- Johnstone, G. A., Revere, Mass., assignor to General Electric Company. Slip-indicator. No. 941,418; Nov. 30; Sp. p. 6576; Gaz. vol. 148; p. 1115.
- Johnstone, L. G., New York, N. Y. Double-jack swinging bracket for gang-saws. No. 925,191; June 15; Sp. p. 4459; Gaz. vol. 143; p. 761.
- Johnstone, W. F., Honolulu, Hawaii. Towing-post. No. 928,766; July 20; Sp. p. 4277; Gaz. vol. 144; p. 745.
- Joiner, P., Gregory, Tex. Cotton-chopper. No. 930,184; Aug. 3; Sp. p. 1180; Gaz. vol. 145; p. 192.
- Jolite, W. (See Frost, E. J., assignor.)
- Jolivet, E. J., Paris, France. Vibration-neutralizer. No. 919,876; Apr. 27; Sp. p. 6264; Gaz. vol. 141; p. 1068.
- Joller, X. J., St. Paul, Minn. Folding umbrella. No. 939,842; Nov. 9; Sp. p. 3061; Gaz. vol. 148; p. 505.
- Jolliffe, M. E., Uniontown, Pa., and J. H. Cowan, Jefferson, Ohio. Safety attachment for mine-elevators. No. 934,816; Sept. 21; Sp. p. 3699; Gaz. vol. 146; p. 643.
- Jolma, T., Portland, Oreg. Valve-gear for engines. No. 941,523; Nov. 30; Sp. p. 6784; Gaz. vol. 148; p. 1149.
- Jonah, F. C., Boston, Mass. Sputa-cup and holder. No. 914,725; Mar. 9; Sp. p. 2255; Gaz. vol. 140; p. 379.
- Jonas, B., assignor, by mesne assignments, to Jonas Battery Company, Toledo, Ohio. Galvanic battery. No. 913,824; Mar. 2; Sp. p. 300; Gaz. vol. 140; p. 52.
- Jonas, B., assignor, by mesne assignments, to Jonas Battery Company, Toledo, Ohio. Galvanic cell. No. 913,898; Mar. 2; Sp. p. 492; Gaz. vol. 140; p. 79.
- Jonas Battery Company. (See Jonas, B., assignor.)
- Jonas, R., Berlin, Germany, assignor to Freibahn Gesellschaft mit beschränkter Haftung. Composite road-wagon. No. 918,161; Apr. 13; Sp. p. 2432; Gaz. vol. 141; p. 436.

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- Jones, A., Oolitic, Ind. Mounting for gang-saws. No. 922,283; May 18; Sp. p. 4499; Gaz. vol. 142; p. 781.
- Jones, A., Los Angeles, Cal. Hose-rack. No. 927,410; July 6; Sp. p. 1417; Gaz. vol. 144; p. 235.
- Jones, A. C., Bigfork, Mont. Saw-tooth gage. No. 932,612; Aug. 31; Sp. p. 6334; Gaz. vol. 145; p. 1092.
- Jones, A. C., Seneca Falls, N. Y. Button-making machine. No. 938,150; Oct. 26; Sp. p. 5338; Gaz. vol. 147; p. 912.
- Jones, A. D., Holloway, London, England. Electric-arc lamp. No. 935,518; Sept. 28; Sp. p. 5124; Gaz. vol. 146; p. 900.
- Jones, A. D., Holloway, London, England. Electrode for electric-arc lamps. No. 944,139; Dec. 21; Sp. p. 4528; Gaz. vol. 149; p. 777.
- Jones, A. D., Louisville, Ky., assignor, by mesne assignments, to National Hygienic Service Company. System for dispensing beverages. No. 932,284; Aug. 24; Sp. p. 5627; Gaz. vol. 145; p. 960.
- Jones, A. D., Louisville, Ky., assignor, by mesne assignments, to National Hygienic Service Company. System for dispensing beverages. No. 932,285; Aug. 24; Sp. p. 5633; Gaz. vol. 145; p. 961.
- Jones, A. E., assignor to Whitehead & Company, Fiume, Austria-Hungary. Self-propelled torpedo. No. 910,823; Jan. 26; Sp. p. 4902; Gaz. vol. 138; p. 884.
- Jones, A. E., assignor to Whitehead and Company, Fiume, Austria-Hungary. Means for injecting water into the cylinders of compressors. No. 913,661; Feb. 23; Sp. p. 5471; Gaz. vol. 139; p. 963.
- Jones, A. E., assignor to Whitehead & Company, Fiume, Austria-Hungary. Apparatus for launching torpedoes under water. No. 916,164; Mar. 23; Sp. p. 5113; Gaz. vol. 140; p. 905.
- Jones, A. E., assignor to Whitehead & Company, Fiume, Austria-Hungary. Self-propelled torpedo. No. 917,449; Apr. 6; Sp. p. 976; Gaz. vol. 141; p. 170.
- Jones, A. E., assignor to Whitehead & Company, Fiume, Austria-Hungary. Starting device for the compressed-air motors of self-propelled torpedoes. No. 929,954; Aug. 3; Sp. p. 706; Gaz. vol. 145; p. 112.
- Jones, A. F., New Paris, Ind. Metallic railway-tie. No. 931,876; Aug. 24; Sp. p. 4764; Gaz. vol. 145; p. 824.
- Jones, A. F., Salem, Mass. Feeding device for blanks. No. 937,001; Oct. 12; Sp. p. 2902; Gaz. vol. 147; p. 453.
- Jones, A. H., Oakland, Cal. Wire paper-sack holder. No. 914,421; Mar. 9; Sp. p. 1634; Gaz. vol. 140; p. 279.
- Jones, A. H., Orange, and A. P. Glaestre, Irvington, assignors to Tea Tray Company, Newark, N. J. Horn-crane. No. 920,957; May 11; Sp. p. 1766; Gaz. vol. 142; p. 313.
- Jones, A. I., Ritzville, Wash. Weed-extermiator and cultivator. No. 918,677; Apr. 20; Sp. p. 3570; Gaz. vol. 141; p. 634.
- Jones, A. K., *et al.* (See Esco, J. A., assignor.)
- Jones, A. M., assignor of one-fourth to G. C. Snyder and one-fourth to O. M. Snyder, Hagerstown, Md. Combined signal and air-brake. No. 941,259; Nov. 23; Sp. p. 6200; Gaz. vol. 148; p. 1041.
- Jones, A. N., Wichita, Kans. Boiler-cleaner and feed-water heater. No. 934,314; Sept. 14; Sp. p. 2719; Gaz. vol. 146; p. 452.
- Jones, A. R., *et al.* (See Einstein, A. C., assignor.)
- Jones, A. W., South Omaha, Nebr. Driving mechanism for roundabouts. No. 937,531; Oct. 19; Sp. p. 4055; Gaz. vol. 147; p. 689.
- Jones, A. W., Schenectady, N. Y., assignor to General Electric Company. Selective signaling system. No. 921,116; May 11; Sp. p. 2083; Gaz. vol. 142; p. 367.
- Jones, B., trustee. (See Curtis, L. E., assignor.)
- Jones, B. H., St. Louis, Mo. Wire fabric for bed-springs and couches. No. 935,308; Sept. 28; Sp. p. 4687; Gaz. vol. 146; p. 833.
- Jones, B. J., Cincinnati, Ohio. Irrigating device for electrical ground connections. No. 921,844; May 18; Sp. p. 3629; Gaz. vol. 142; p. 639.
- Jones, B. L., Highbury, London, England. Mud-guard. No. 923,849; June 8; Sp. p. 1692; Gaz. vol. 143; p. 281.
- Jones, C. A., assignor of one-half to S. L. Emmert, Broadwater, Mo. Carriage-operating mechanism for sawmills. No. 939,264; Nov. 9; Sp. p. 1767; Gaz. vol. 148; p. 307.
- Jones, C. F., New York, N. Y. Coupon-safe. No. 923,532; June 1; Sp. p. 930; Gaz. vol. 143; p. 144.
- Jones, C. F., Oregon, Ill. Pedal for piano-players. No. 925,192; June 15; Sp. p. 4461; Gaz. vol. 143; p. 761.
- Jones, C. L., Ponkapog, Mass. Flour-sifter. No. 911,130; Feb. 2; Sp. p. 204; Gaz. vol. 139; p. 143.
- Jones, C. M. (See Ward and Guffey, assignors.)
- Jones, C. W., Charlotte, N. C. Brick and block mold. No. 925,703; June 22; Sp. p. 5449; Gaz. vol. 143; p. 953.
- Jones, D., Paul, Ill. Extension-step for cars. No. 928,128; July 13; Sp. p. 2940; Gaz. vol. 144; p. 502.
- Jones, D. E., Detroit, Mich. Concrete-mixer. No. 920,958; May 11; Sp. p. 1767; Gaz. vol. 142; p. 314.
- Jones, D. W., Taunton, Mass., assignor to Campbell Printing Press & Manufacturing Company, New York, N. Y. Casting of curved stereotype printing-plates. No. 911,882; Feb. 9; Sp. p. 1667; Gaz. vol. 139; p. 309.
- Jones, E. (See Jones, J. J., assignor.)
- Jones, E., Padeswood, near Mold, assignor to J. A. Stuart, Prestatyn, England. Brake for tramway and railway vehicles. No. 913,825; Mar. 2; Sp. p. 301; Gaz. vol. 140; p. 52.
- Jones, E., Martins Ferry, and J. Hall, Maynard, Ohio. Coal-cutting machine. No. 928,056; July 13; Sp. p. 2817; Gaz. vol. 144; p. 480.
- Jones, E. A., Browning, Mo. Attachment for corn-planters. No. 927,858; July 13; Sp. p. 2413; Gaz. vol. 144; p. 412.
- Jones, E. A., Pittsfield, Mass. Beating-roll for refining-engines. No. 936,540; Oct. 12; Sp. p. 1993; Gaz. vol. 147; p. 328.
- Jones, E. W., Opelika, Ala. Cutter. No. 927,247; July 6; Sp. p. 1129; Gaz. vol. 144; p. 183.
- Jones, F., C. M. Brown, J. S. Fleming, and W. L. McDonald, Plymouth, Ohio. Sheave. No. 917,450; Apr. 6; Sp. p. 978; Gaz. vol. 141; p. 170.
- Jones, F. A., *et al.* (See Larsson, T., assignor.)
- Jones, F. G., Muskegon, Mich. Fuse. No. 941,020; Nov. 23; Sp. p. 5695; Gaz. vol. 148; p. 961.
- Jones, F. J. (See Smith, H. M., assignor.)
- Jones, F. L. (See Braun, W. A., assignor.)
- Jones, F. L. (See Douglass, Jones, and Harris.)
- Jones, F. T. (See Jones, H. J. and F. T.)
- Jones, G. A. (See Belonga, G. W., assignor.)
- Jones, G. H., River Forest, Ill. Fixture for electricity and gas. No. 908,675; Jan. 5; Sp. p. 528; Gaz. vol. 138; p. 81.
- Jones, G. P., assignor to William B. Pollock Company, Youngstown, Ohio. Ladle construction. No. 933,732; Sept. 7; Sp. p. 1589; Gaz. vol. 146; p. 240.
- Jones, H. (See Benedict, F. L., assignor.)
- Jones, H., Suffer, assignor to E. H. Fallows, New York, N. Y. Forming steel backs for brake-shoes. No. 926,875; July 6; Sp. p. 359; Gaz. vol. 144; p. 57.
- Jones, H., Suffer, assignor to E. H. Fallows, New York, N. Y. Interlocking brake-shoe. No. 942,329; Dec. 7; Sp. p. 636; Gaz. vol. 149; p. 102.
- Jones, H., and J. T. Vincent, Memphis, Tenn. Cotton-compress machinery. No. 908,676; Jan. 5; Sp. p. 529; Gaz. vol. 138; p. 81.
- Jones, H. B. (See Bishop, J. N., assignor.)
- Jones, H. B. (See Jones, L. M., assignor.)
- Jones, H. B., Yonkers, N. Y. Baker's peel. No. 927,547; July 13; Sp. p. 1729; Gaz. vol. 144; p. 309.
- Jones, H. J., and F. T., Baltimore, Md. Electric signal for railways. No. 920,577; May 4; Sp. p. 976; Gaz. vol. 142; p. 159.
- Jones, H. L., Carthage, N. Y. Internal-combustion engine. No. 942,782; Dec. 7; Sp. p. 1548; Gaz. vol. 149; p. 254.
- Jones, H. S., assignor of one-half to W. G. Jones, Chicago, Ill. Binder. No. 917,610; Apr. 6; Sp. p. 1262; Gaz. vol. 141; p. 223.
- Jones, H. T., Bellevue, Pa. Rheostat. No. 934,973; Sept. 21; Sp. p. 4015; Gaz. vol. 146; p. 698.
- Jones, H. V., Newtonville, Mass. Handle-fastening. No. 914,846; Mar. 9; Sp. p. 2506; Gaz. vol. 140; p. 419.
- Jones, H. W., *et al.* (See Einstein, A. C., assignor.)
- Jones, I. A. (See Patterson, C. L., assignor.)
- Jones, I. E. (See Tanner and Jones.)
- Jones, I. N., assignor to J. C. Vandenberg, Defiance, Ohio. Forming sheet-metal bodies. No. 939,702; Nov. 9; Sp. p. 2770; Gaz. vol. 148; p. 457.
- Jones, J., Littleborough, and J. Rigg, Rochdale, England. Packing device for pistons, piston-valves, and the like. No. 924,789; June 15; Sp. p. 3650; Gaz. vol. 143; p. 625.
- Jones, J. and J. Jr., New York, N. Y. Automatic time-switch. No. 927,803; July 13; Sp. p. 2281; Gaz. vol. 144; p. 394.
- Jones, J. and J. Jr., New York, N. Y. Electric time-switch. No. 931,617; Aug. 17; Sp. p. 4179; Gaz. vol. 145; p. 716.
- Jones, J., Jr. (See Jones, J. and J., Jr.)
- Jones, J. A., Logansport, Ind. Eraser-cleaning machine. No. 940,254; Nov. 16; Sp. p. 3994; Gaz. vol. 148; p. 680.
- Jones, J. A., and W. H. Gill, Ward, assignors of one-fourth to H. A. Grant, Ravenswood, and one-fourth to J. A. Quick, Cedargrove, W. Va. Railway-rail joint. No. 927,411; July 6; Sp. p. 1418; Gaz. vol. 144; p. 236.
- Jones, J. C., *et al.* (See Gibson, G. H., assignor.)
- Jones, J. C. (See Kreutzer and Jones.)
- Jones, J. C., Wilkes-Barre, Pa. Insulated rail-joint. No. 919,877; Apr. 27; Sp. p. 6265; Gaz. vol. 141; p. 1069.
- Jones, J. D., Brownwood, Tex. Heating system. No. 916,559; Mar. 30; Sp. p. 5916; Gaz. vol. 140; p. 1061.
- Jones, J. D., assignor to Lubricating Wheel and Roller Company, Walla Walla, Wash. Lubricating draper-roller. No. 942,728; Dec. 7; Sp. p. 1443; Gaz. vol. 149; p. 236.
- Jones, J. E., Hazleton, Pa. Coal-picking table. No. 927,412; July 6; Sp. p. 1420; Gaz. vol. 144; p. 236.
- Jones, J. E., Centerville, Iowa. Automatic box-car loader. No. 930,381; Aug. 10; Sp. p. 1534; Gaz. vol. 145; p. 278.



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- Jones, J. E., Richmond, Ind. Coupling-clamp for pipe-line shafting. No. 935,111; Sept. 28; Sp. p. 4315; Gaz. vol. 146; p. 770.
- Jones, J. G., Carthage, N. Y. Recovering waste lime. No. 916,449; Mar. 30; Sp. p. 5666; Gaz. vol. 140; p. 1025.
- Jones, J. H., Everett, Mass. Tool-holder. No. 932,286; Aug. 24; Sp. p. 5638; Gaz. vol. 145; p. 961.
- Jones, J. H., assignor to Erie City Iron Works, Erie, Pa. Flask-clamp. No. 911,015; Jan. 26; Sp. p. 5251; Gaz. vol. 138; p. 946.
- Jones, J. H., Swampscott, assignor to Murray Shoe Company, Lynn, Mass. Last. No. 918,162; Apr. 13; Sp. p. 2433; Gaz. vol. 141; p. 436.
- Jones, J. H., assignor of one-half to J. H. Andrew, Farmington, Del. Marine table. No. 935,155; Sept. 28; Sp. p. 4387; Gaz. vol. 146; p. 783.
- Jones, J. J., Mount Vernon, Ky., assignor to E. Jones, Vail, Ariz. Ter. Measuring instrument. No. 911,729; Feb. 9; Sp. p. 1402; Gaz. vol. 139; p. 261.
- Jones, J. J., and M. O'Brien, Indianapolis, Ind. Partition for beds. No. 925,916; June 22; Sp. p. 5937; Gaz. vol. 143; p. 1025.
- Jones, J. L., Peoria, Ill. Power-transmitting mechanism. No. 944,240; Dec. 21; Sp. p. 4719; Gaz. vol. 149; p. 808.
- Jones, J. M., Utica, N. Y. Railway spike and lock. No. 922,483; May 25; Sp. p. 4908; Gaz. vol. 142; p. 874.
- Jones, J. R. (See Bishop, F. A., assignor.)
- Jones, J. R. (See Howell, D. Z., assignor.)
- Jones, J. R., Oshkosh, Wis. Scaffold-ladder. No. 921,117; May 11; Sp. p. 2085; Gaz. vol. 142; p. 368.
- Jones, J. R., Rome, and H. W. Nicholes, Atlanta, Ga. Box-handling attachment for shelves. No. 940,878; Nov. 23; Sp. p. 5388; Gaz. vol. 148; p. 913.
- Jones, J. S., assignor of one-fourth to C. N. Adelle, Spokane, Wash. Alarm. No. 919,179; Apr. 20; Sp. p. 4579; Gaz. vol. 141; p. 799.
- Jones, J. T., Iron Mountain, Mich., assignor to Jones Step-Process Company. Ore-smelting furnace. (Reissue.) No. 12,928; Mar. 16; Sp. p. 4281; Gaz. vol. 140; p. 736.
- Jones, J. T., Iron Mountain, Mich., assignor to Jones Step-Process Company, Duluth, Minn. Treating iron ore. No. 930,764; Aug. 10; Sp. p. 2349; Gaz. vol. 145; p. 407.
- Jones, J. W., et al. (See Barnett, A. M., assignor.)
- Jones, J. W., New York, N. Y. Attachment for speedometers. No. 908,775; Jan. 5; Sp. p. 726; Gaz. vol. 138; p. 113.
- Jones, J. W., New York, N. Y. Speed-controlling device. No. 919,588; Apr. 27; Sp. p. 5659; Gaz. vol. 141; p. 972.
- Jones, J. W., New York, N. Y. Apparatus for determining the depth of liquids. No. 922,284; May 18; Sp. p. 4501; Gaz. vol. 142; p. 781.
- Jones, J. W., New York, N. Y. Maximum-hand for speedometer-indicators or the like. No. 925,814; June 22; Sp. p. 5721; Gaz. vol. 143; p. 991.
- Jones, J. W., New York, N. Y. Massage apparatus. No. 942,206; Dec. 7; Sp. p. 382; Gaz. vol. 149; p. 58.
- Jones, J. W., Harrisburg, Pa. Coupon printing and delivering apparatus. No. 938,243; Oct. 26; Sp. p. 5536; Gaz. vol. 147; p. 946.
- Jones, J. Y., Jr. (See Nordgren and Jones.)
- Jones, L. B., and H. C. Braun, assignors to N. R. Capsule Syndicate Limited, London, England. Stoppering device for bottles and the like. No. 926,571; June 29; Sp. p. 7219; Gaz. vol. 143; p. 1276.
- Jones, L. E., Anaconda, Mont. Arc-lamp cut-out. No. 932,613; Aug. 31; Sp. p. 6336; Gaz. vol. 145; p. 1093.
- Jones, L. M., Somerville, assignor of one-half to H. B. Jones, Lynn, Mass. Rotary molding-cutter. No. 915,966; Mar. 23; Sp. p. 4746; Gaz. vol. 140; p. 840.
- Jones, L. M., assignor to Massey-Harris Company, Limited, Toronto, Ontario, Canada. Combined hay rake and tedder. No. 928,457; July 20; Sp. p. 3660; Gaz. vol. 144; p. 644.
- Jones, L. T., Jr. (See Mel and Jones.)
- Jones & Laughlin Steel Company. (See Rendleman, N., assignor.)
- Jones, M. D., et al. (See Edwards, I. L., assignor.)
- Jones, M. K., et al. (See Atkinson, W. W., assignor.)
- Jones, M. R., Jefferson, Ala. Horsetail-holder. No. 934,669; Sept. 21; Sp. p. 3412; Gaz. vol. 146; p. 595.
- Jones, N. (See Danforth and Jones.)
- Jones, N. J., Waterville, Wash. Attachment for well-drilling derricks. No. 914,579; Mar. 9; Sp. p. 1942; Gaz. vol. 140; p. 332.
- Jones, O. E., Fremont, Ohio. Tooth-brush holder. No. 943,415; Dec. 14; Sp. p. 2962; Gaz. vol. 149; p. 499.
- Jones, P. G., Manchester, England, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Production of effects on mixed goods composed of cotton and wool. No. 911,593; Feb. 9; Sp. p. 1110; Gaz. vol. 139; p. 216.
- Jones, P. N., Pittsburg, Pa. Braking mechanism. No. 914,284; Mar. 2; Sp. p. 1340; Gaz. vol. 140; p. 207.
- Jones, P. N., Pittsburg, Pa. Street-car-platform arrangement. No. 922,285; May 18; Sp. p. 4503; Gaz. vol. 142; p. 781.
- Jones, P. W., Toledo, Ohio. Metal-shaping machine. No. 924,907; June 15; Sp. p. 3895; Gaz. vol. 143; p. 664.
- Jones, R. B., et al. (See Einstein, A. C., assignor.)
- Jones, R. H., Tustin, Mich. Sash operating and locking mechanism. No. 928,767; July 20; Sp. p. 4280; Gaz. vol. 144; p. 746.
- Jones, R. P. (See Neuhert and Jones.)
- Jones, R. R., Chicago, Ill. Car-door. No. 934,540; Sept. 21; Sp. p. 3153; Gaz. vol. 146; p. 500.
- Jones, R. S. (See Jones, T. X., assignor.)
- Jones, R. S., Medford, Wis. Indicator for rural mail-boxes. No. 932,287; Aug. 24; Sp. p. 5640; Gaz. vol. 145; p. 962.
- Jones, R. V., Seattle, Wash. Starting and separating gate. No. 939,703; Nov. 9; Sp. p. 2771; Gaz. vol. 148; p. 457.
- Jones, R. V., assignor of one-half to S. Zecher, Canton, Ohio. Velocipede. No. 922,484; May 25; Sp. p. 4909; Gaz. vol. 142; p. 874.
- Jones, R. W., assignor of one-half to M. F. Dunn, London, Ohio. Wrench. No. 908,677; Jan. 5; Sp. p. 531; Gaz. vol. 138; p. 82.
- Jones, S., Finleyville, Pa. Window-cleaning device. No. 930,185; Aug. 3; Sp. p. 1182; Gaz. vol. 145; p. 192.
- Jones, S., New York, N. Y. Step-ladder. No. 934,315; Sept. 14; Sp. p. 2722; Gaz. vol. 146; p. 452.
- Jones, S., New York, N. Y. Step-ladder. No. 934,316; Sept. 14; Sp. p. 2722; Gaz. vol. 146; p. 452.
- Jones, S. C. (See Lewis, Thomas, and Jones.)
- Jones, S. E., Atmore, Ala. Fertilizer-distributor. No. 934,317; Sept. 14; Sp. p. 2724; Gaz. vol. 146; p. 452.
- Jones, S. L. (See Young and Jones.)
- Jones, S. M., Chicago, Ill. Packing. No. 914,422; Mar. 9; Sp. p. 1634; Gaz. vol. 140; p. 279.
- Jones Step-Process Company. (See Jones, J. T., assignor.) (Reissue.)
- Jones, T., Acme, Tex., assignor to Acme Cement Plaster Company. Cement. No. 916,165; Mar. 23; Sp. p. 5116; Gaz. vol. 140; p. 905.
- Jones, T. A. (See Little and Jones.)
- Jones, T. A., Kansas City, Kans. Adjustable ratchet-wrench. No. 915,443; Mar. 16; Sp. p. 3681; Gaz. vol. 140; p. 640.
- Jones, T. A., Wyman, Iowa. Rein-holder. No. 915,771; Mar. 23; Sp. p. 4391; Gaz. vol. 140; p. 779.
- Jones, T. D., Cleveland, Ohio. Vehicle-axle. No. 908,572; Jan. 5; Sp. p. 291; Gaz. vol. 138; p. 49.
- Jones, T. X., Columbus, Ohio, assignor to R. S. Jones, Racine, Wis. Pulley. No. 936,778; Oct. 12; Sp. p. 4467; Gaz. vol. 147; p. 410.
- Jones, T. X., Columbus, Ohio, assignor to R. S. Jones, Racine, Wis. Shade-adjuster. No. 936,779; Oct. 12; Sp. p. 2468; Gaz. vol. 147; p. 411.
- Jones, W. (See Bryan and Jones.)
- Jones, W. A., Denton, Tex. Combined churn and ice-cream freezer. No. 939,512; Nov. 9; Sp. p. 2353; Gaz. vol. 148; p. 390.
- Jones, W. C., et al. (See Jones and Lenuax, assignors.)
- Jones, W. C., Chicago, Ill. Cluster-socket. No. 934,541; Sept. 21; Sp. p. 3154; Gaz. vol. 146; p. 560.
- Jones, W. C., Chicago, Ill. Cluster lamp-socket. No. 934,542; Sept. 21; Sp. p. 3157; Gaz. vol. 146; p. 551.
- Jones, W. D., Cullman, Ala. Lamp-igniter. No. 944,875; Dec. 28; Sp. p. 6138; Gaz. vol. 149; p. 1056.
- Jones, W. D., assignor to Antiseptic Holder Company, New York, N. Y. Antiseptic tooth-brush holder. No. 941,200; Nov. 23; Sp. p. 6092; Gaz. vol. 148; p. 1022.
- Jones, W. F., Owensville, Ind. Barn-door fastener. No. 932,288; Aug. 24; Sp. p. 5641; Gaz. vol. 145; p. 962.
- Jones, W. G. (See Jones, H. S., assignor.)
- Jones, W. H., San Gabriel, Tex. Rake. No. 933,990; Sept. 14; Sp. p. 2089; Gaz. vol. 146; p. 344.
- Jones, W. H., assignor of one-third to W. Smith, Manhattan Beach, Cal. Receiving and delivering mechanism for mail-bags. No. 918,863; Apr. 20; Sp. p. 3963; Gaz. vol. 141; p. 697.
- Jones, W. H., and D. W. Shepherd, assignors to W. Bowlby, Rupert, Idaho. Heating-stove. No. 921,612; May 11; Sp. p. 3118; Gaz. vol. 142; p. 533.
- Jones, W. M., Tarentum, Pa. Gage. No. 944,619; Dec. 28; Sp. p. 5588; Gaz. vol. 149; p. 970.
- Jones, W. M., and H. Stewart, San Francisco, Cal. Fastening for loops and the like. No. 942,330; Dec. 7; Sp. p. 638; Gaz. vol. 149; p. 102.
- Jones, W. T., Cedar Rapids, Iowa. Hay-loader coupling. No. 943,024; Dec. 14; Sp. p. 2146; Gaz. vol. 149; p. 368.
- Jones, W. W., Chester, Wash. Wheel-lock. No. 910,068; Jan. 19; Sp. p. 3292; Gaz. vol. 138; p. 607.
- Jones, W. W., Baltimore, Md. Can-body-forming machine. No. 941,076; Nov. 23; Sp. p. 5804; Gaz. vol. 148; p. 979.
- Jones, W. W., assignor to Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Door-hinge for electrical receptacles. No. 913,504; Feb. 23; Sp. p. 5104; Gaz. vol. 139; p. 911.
- Jones, X. T. J., Morrilton, Ark. Harrow. No. 920,474; May 4; Sp. p. 768; Gaz. vol. 142; p. 124.
- Jonson, G. E., Hjärpås, Sweden. Milking-machine. No. 936,907; Oct. 12; Sp. p. 2720; Gaz. vol. 147; p. 454.
- Jopling, K. C., Memphis, Tenn. Dispensing-receptacle. No. 934,182; Sept. 14; Sp. p. 2472; Gaz. vol. 146; p. 407.
- Jopson, G. W., assignor of two-thirds to H. E. and F. E. Hubbard, Meriden, Conn. Can-opener and bottle-decapper. No. 922,702; May 25; Sp. p. 5370; Gaz. vol. 142; p. 946.
- Jordalen, E., Stoughton, Wis. Support for carriage-tops. No. 935,369; Sept. 28; Sp. p. 4820; Gaz. vol. 146; p. 852.

*Alphabetical list of patentees—Continued.*

- Jordan, A. P., Madison, Wis. Street-indicator. No. 930,186; Aug. 3; Sp. p. 1183; Gaz. vol. 145; p. 192.  
 Jordan Automatic Signal Company. (See Jordan and Hanchett, assignors.)  
 Jordan Brothers. (See Sullivan, E., assignor.)  
 Jordan, C., assignor, by mesne assignments, to Jordan Machine Co., Cohoes, N. Y. Drying-machine. No. 928,202; July 13; Sp. p. 3100; Gaz. vol. 144; p. 528.  
 Jordan, C. D. (See Benton and Jordan.)  
 Jordan, F. B., Winchester, Mass. Loose-leaf binder. No. 919,589; Apr. 27; Sp. p. 5660; Gaz. vol. 141; p. 972.  
 Jordan, F. E., Oakland, Cal. Bank. No. 936,780; Oct. 12; Sp. p. 2470; Gaz. vol. 147; p. 411.  
 Jordan, H., and W. Neelmeier, Leverkusen, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 916,323; Mar. 23; Sp. p. 5395; Gaz. vol. 140; p. 958.  
 Jordan, H., and W. Neelmeier, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Trisazo dye. No. 920,151; May 4; Sp. p. 117; Gaz. vol. 142; p. 18.  
 Jordan, H. B., Fort Lawn, S. C. Photographic apparatus. No. 936,323; Oct. 12; Sp. p. 1485; Gaz. vol. 147; p. 257.  
 Jordan, H. C., Portland, Oreg. Automatic car-fender. No. 912,574; Feb. 16; Sp. p. 3213; Gaz. vol. 139; p. 576.  
 Jordan, H. P., Hartsville, S. C. Wing-sweep. No. 913,505; Feb. 23; Sp. p. 5105; Gaz. vol. 139; p. 912.  
 Jordan, J., Crefeld, Germany. Door or window hinge. No. 917,768; Apr. 13; Sp. p. 1621; Gaz. vol. 141; p. 301.  
 Jordan, J., Clark, Mo. Railway-rail joint. No. 932,614; Aug. 31; Sp. p. 6338; Gaz. vol. 145; p. 1093.  
 Jordan, J., Montreal, Quebec, Canada. Threading device for shuttles. No. 942,263; Dec. 7; Sp. p. 499; Gaz. vol. 149; p. 78.  
 Jordan, J. C., Camden, Ill. Adjustable evener for harrows. No. 916,560; Mar. 30; Sp. p. 5917; Gaz. vol. 140; p. 1061.  
 Jordan, J. F. (See Cummings and Jordan.)  
 Jordan, J. T., Dallas, Tex. Vapor-burner. No. 908,466; Jan. 5; Sp. p. 61; Gaz. vol. 138; p. 13.  
 Jordan, L. D., New Haven, Conn. Fishing-reel. No. 916,712; Mar. 30; Sp. p. 6191; Gaz. vol. 140; p. 1109.  
 Jordan Machine Co. (See Jordan, C., assignor.)  
 Jordan, O. F., Chicago, Ill. Railway-crossing. No. 911,994; Feb. 9; Sp. p. 1983; Gaz. vol. 139; p. 348.  
 Jordan, R., Boston, Mass. Nutmeg-grater. No. 944,241; Dec. 21; Sp. p. 4722; Gaz. vol. 149; p. 809.  
 Jordan, R. T., assignor of one-half to J. H. Magee, Hinsdale, N. H. Sash-lock. No. 920,875; May 4; Sp. p. 1605; Gaz. vol. 142; p. 256.  
 Jordan, W., Minneapolis, Minn. Grain-door. No. 926,494; June 29; Sp. p. 7085; Gaz. vol. 143; p. 1250.  
 Jordan, W. A., assignor of one-fourth to O. W. Long and one-fourth to W. E. Voelkel, Jr., New Orleans, La. Window and shutter lock. No. 918,327; Apr. 13; Sp. p. 2770; Gaz. vol. 141; p. 491.  
 Jordan, W. C. (See Smith, E. W., assignor.)  
 Jordan, W. E., assignor to American Beauty Stove Co., Erie, Pa. Hot-plate. No. 930,293; Aug. 3; Sp. p. 1361; Gaz. vol. 145; p. 225.  
 Jordan, W. H., Knightstown, Ind. Spring-door. No. 936,908; Oct. 12; Sp. p. 2723; Gaz. vol. 147; p. 454.  
 Jordan, W. H., Boston, Mass., assignor, by mesne assignments, to Automatic Beam Scale Company. Coin-controlled beam-scale. No. 931,429; Aug. 17; Sp. p. 3817; Gaz. vol. 145; p. 659.  
 Jordan, W. H., Brooklyn, N. Y., and G. T. Hanchett, Hackensack, N. J., assignors to Jordan Automatic Signal Company, New York, N. Y. Railway-signals. No. 910,387; Jan. 19; Sp. p. 3992; Gaz. vol. 138; p. 717.  
 Jordan, W. J. (See Stroud and Jordan.)  
 Joret, G. K. (See Simle, O., assignor.)  
 Jordon, H. E., assignor of one-half to D. A. Sullivan, New York, N. Y. Lubricating apparatus. No. 937,243; Oct. 19; Sp. p. 3426; Gaz. vol. 147; p. 592.  
 Joret, L. J. (See Grouvelle, Arquembourg, and Joret.)  
 Jorgensen, J., South Omaha, Nebr. Alfalfa-cutter. No. 943,308; Dec. 14; Sp. p. 2741; Gaz. vol. 149; p. 463.  
 Jorgensen, L., Philadelphia, Pa. Paper-beating engine. No. 910,824; Jan. 26; Sp. p. 4903; Gaz. vol. 138; p. 885.  
 Jorgensen, T., Martinez, Cal. Rotary engine. No. 924,556; June 8; Sp. p. 3136; Gaz. vol. 143; p. 512.  
 Jorgensen, W., assignor to Aktiebolaget Separator, Stockholm, Sweden. Centrifugal machine. No. 922,485; May 25; Sp. p. 4911; Gaz. vol. 142; p. 875.  
 Jorgenson, H. (See Planett and Jorgenson.)  
 Jorgenson, J., Racine, Wis. Temperature-indicator for ironing-machines. No. 934,733; Sept. 21; Sp. p. 3538; Gaz. vol. 146; p. 616.  
 Jorgenson, P. C., Ledyard, Iowa. Barrel-cart. No. 910,204; Jan. 19; Sp. p. 3588; Gaz. vol. 138; p. 651.  
 Jorgenson, P. C., Ledyard, Iowa. Pick-up cart. No. 910,205; Jan. 19; Sp. p. 3590; Gaz. vol. 138; p. 652.  
 Jorrand, L., Aubusson, France, assignor to B. Hansel, Vienna, Austria-Hungary. Thread-changing apparatus for looms. No. 936,324; Oct. 12; Sp. p. 1489; Gaz. vol. 147; p. 257.  
 Jorres, R. W., assignor to Heidland Baking Company, St. Louis, Mo. Bread-box. No. 933,711; Sept. 7; Sp. p. 1532; Gaz. vol. 146; p. 231.  
 Joseffy, A. M. D., North Tarrytown, and F. Kroehn, New York, N. Y. Hair-supporter. No. 917,451; Apr. 6; Sp. p. 979; Gaz. vol. 141; p. 170.  
 Joseph, C., Bayonne, N. J. Awning. No. 918,057; Apr. 13; Sp. p. 2235; Gaz. vol. 141; p. 401.  
 Joseph, F. F., Grand Rapids, Mich. Hoisting apparatus. No. 911,883; Feb. 9; Sp. p. 1671; Gaz. vol. 139; p. 310.  
 Joseph, J. E. (See Jackson and Joseph.)  
 Joseph, J. S., assignor of one-fourth to A. J. E. Wilson, Jr., Pittsburg, Pa. Gas-cut-off valve. No. 913,899; Mar. 2; Sp. p. 495; Gaz. vol. 140; p. 80.  
 Joseph, O. G., Louisville, Ky. Safety device for horses. No. 916,876; Mar. 30; Sp. p. 6489; Gaz. vol. 140; p. 1159.  
 Joseph, P. E., Waterman, assignor to H. S. Cahn, Los Angeles, Cal. Table and support. No. 944,560; Dec. 28; Sp. p. 5465; Gaz. vol. 149; p. 948.  
 Joseph T. Ryerson & Son. (See Kreer, J. G., assignor.)  
 Josler, A., assignor of one-half to F. P. Smith, Chicago, Ill. Fence or other inclosure. No. 936,246; Oct. 5; Sp. p. 1328; Gaz. vol. 147; p. 204.  
 Josleyn, H. N., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 919,020; Apr. 20; Sp. p. 4281; Gaz. vol. 141; p. 749.  
 Joslin, A. D., Chicago, Ill. Dating-stamp. No. 918,555; Apr. 20; Sp. p. 3253; Gaz. vol. 141; p. 593.  
 Joslin, A. D., Chicago, Ill. Hand-stamp. No. 939,513; Nov. 9; Sp. p. 2356; Gaz. vol. 148; p. 391.  
 Joslin, C. B., Manchester, Iowa. Corn-testing cabinet. No. 910,825; Jan. 26; Sp. p. 4904; Gaz. vol. 138; p. 885.  
 Joslyn, C. H. (See McMillan and Joslyn.)  
 Josselyn, J. A., Natick, assignor of one-fourth to A. F. Seymour and one-fourth to G. M. Tibbetts, Campello, Mass. Heel-building machine. No. 915,356; Mar. 16; Sp. p. 3502; Gaz. vol. 140; p. 611.  
 Josselyn, T. C., New York, N. Y. Washing-machine. No. 913,506; Feb. 23; Sp. p. 5106; Gaz. vol. 139; p. 912.  
 Jottrand, A., associate guardian. (See Jottrand, F.)  
 Jottrand, F., deceased, Uccle, near Brussels, Belgium; J. R. Jottrand, widow of said F. Jottrand, and A. Jottrand, associate guardian of the heirs-at-law, assignors to Société Anonyme l'Oxydrique Internationale. Pressure-burner. No. 915,714; Mar. 16; Sp. p. 4250; Gaz. vol. 140; p. 733.  
 Jottrand, J. R. (See Jottrand, F.)  
 Jourdain, J. B., and L. Dextraze, New Bedford, Mass. Universal-joint connection. No. 941,928; Nov. 30; Sp. p. 7644; Gaz. vol. 148; p. 1237.  
 Jourdan, H. (See Newton and Jourdan.)  
 Jourdan, J. H., New York, N. Y. Gas-generator. No. 943,601; Dec. 14; Sp. p. 3342; Gaz. vol. 149; p. 564.  
 Jovignot, C., Paris, France. Composition for use in hermetically closing vessels. No. 920,959; May 11; Sp. p. 1769; Gaz. vol. 142; p. 314.  
 Joy, C. L., New Haven, Conn. Cutlery-grinding machine. No. 940,930; Nov. 23; Sp. p. 5495; Gaz. vol. 148; p. 931.  
 Joy, C. L., New Haven, Conn. Skate-runner grinder. No. 940,931; Nov. 23; Sp. p. 5498; Gaz. vol. 148; p. 932.  
 Joyce-Cridland Company. (See Kohl and Joyce, assignors.)  
 Joyce, E. F., Kansas City, Kans. Automatic lock for elevator-gates. No. 935,607; Sept. 28; Sp. p. 5310; Gaz. vol. 146; p. 931.  
 Joyce, F. I. (See Kohl and Joyce.)  
 Joyce, H. B., Seattle, Wash. Show-case. No. 927,052; July 6; Sp. p. 741; Gaz. vol. 144; p. 117.  
 Joyce, J. L., et al. (See Simmons, C. L., assignor.)  
 Joye, C. M., Waynesboro, Ga. Balance-wheel staff. No. 927,859; July 13; Sp. p. 2414; Gaz. vol. 144; p. 412.  
 Joyner, E. N., Jr. (See Butler, B. G., assignor.)  
 Judd, H. S., assignor to H. S. Judd Manufacturing Company, Chicago, Ill. Washing-machine. No. 936,634; Oct. 12; Sp. p. 2191; Gaz. vol. 147; p. 362.  
 Judd, O. O., Menasha, Wis. Machine for forming bushing-plugs for rolls of paper. No. 908,467; Jan. 5; Sp. p. 62; Gaz. vol. 138; p. 13.  
 Judd, W., assignor of one-third to J. Long and one-third to W. B. Rigby, Eureka, Cal. Thill-support. No. 930,187; Aug. 3; Sp. p. 1185; Gaz. vol. 145; p. 193.  
 Jude, A. (See Morcom and Jude.)  
 Judelson, J., New York, N. Y. Drier. No. 924,164; June 8; Sp. p. 2330; Gaz. vol. 143; p. 382.  
 Judge, J. L., Minneapolis, Minn. Valve. No. 935,112; Sept. 28; Sp. p. 4317; Gaz. vol. 146; p. 770.  
 Judge, J. L., Minneapolis, Minn. Valve. No. 935,113; Sept. 28; Sp. p. 4318; Gaz. vol. 146; p. 770.  
 Judkins, C. E., Coeur d'Alene, Idaho. Hose-coupling. No. 943,416; Dec. 14; Sp. p. 2962; Gaz. vol. 149; p. 500.



*Alphabetical list of patentees—Continued.*

- Judson L. Thomson Manufacturing Company. (See Leach, J. N., assignor.)  
 Judson L. Thomson M'fg Co. (See Perrault, J. E., assignor.)  
 Judson L. Thomson M'fg Company. (See Maenche, A. T., assignor.)  
 Judson, W. V., U. S. Army. Structure for use in hydraulic engineering. No. 921,545; May 11; Sp. p. 2975; Gaz. vol. 142; p. 511.  
 Iuel, S., Halliday, N. D. Sugar-bowl. No. 911,995; Feb. 9; Sp. p. 1988; Gaz. vol. 139; p. 348.  
 Juenge, R. H., Newark, N. J. Separable blade and handle. No. 909,908; Jan. 19; Sp. p. 2981; Gaz. vol. 138; p. 553.  
 Juengst, C. A., assignor to Higley Machine Company, Croton Falls, N. Y. Machine for sawing metal. (Reissue.) No. 13,004; Aug. 10; Sp. p. 2920; Gaz. vol. 145; p. 491.  
 Juhász, N., South Bend, Ind. Street-car fender. No. 944,267; Dec. 28; Sp. p. 4779; Gaz. vol. 149; p. 845.  
 Juleson, D. C., Chicago, Ill. Washboard. No. 942,076; Dec. 7; Sp. p. 74; Gaz. vol. 149; p. 14.  
 Julich, H. H., Mount Hope, Wis. Plow. No. 939,704; Nov. 9; Sp. p. 2774; Gaz. vol. 148; p. 458.  
 Julien, B., and W. Point, Omaha, Nebr. End construction for cars. No. 914,726; Mar. 9; Sp. p. 2256; Gaz. vol. 140; p. 379.  
 Julien, B., and W. Point, Omaha, Nebr. Car-end construction. No. 914,727; Mar. 9; Sp. p. 2259; Gaz. vol. 140; p. 379.  
 Julius, G. A. (See Stacy and Julius.)  
 Julius, P., and E. Fussenegger, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Azo dye and making same. No. 914,146; Mar. 2; Sp. p. 1048; Gaz. vol. 140; p. 166.  
 Julius, P., and E. Fussenegger, Ludwigshafen-on-the-Rhine, and L. Blangey, Mannheim, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Azo dye and making same. No. 921,546; May 11; Sp. p. 2977; Gaz. vol. 142; p. 511.  
 Julius, P., and E. Fussenegger, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Pyrazolone dyes and making them. No. 935,370; Sept. 28; Sp. p. 4820; Gaz. vol. 146; p. 852.  
 Julius, P., and E. Fussenegger, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Azo dye. No. 935,371; Sept. 28; Sp. p. 4822; Gaz. vol. 146; p. 853.  
 Julius, P., Ludwigshafen-on-the-Rhine, and L. Blangey, Mannheim, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Azo dye and making. No. 932,289; Aug. 24; Sp. p. 5641; Gaz. vol. 145; p. 962.  
 Jumau, L., Paris, France. Obtaining pure copper. No. 924,076; June 8; Sp. p. 2115; Gaz. vol. 143; p. 253.  
 Jumau, L., Paris, France. Obtaining pure metallic copper from a solution of a salt of copper. No. 924,077; June 8; Sp. p. 2116; Gaz. vol. 143; p. 353.  
 Jumau, L., Paris, France. Obtaining pure metallic copper from a solution of a salt of copper. No. 930,967; Aug. 10; Sp. p. 2781; Gaz. vol. 145; p. 472.  
 Jumau, L., Paris, France. Obtaining pure metallic copper from a solution of a salt of copper. No. 930,968; Aug. 10; Sp. p. 2782; Gaz. vol. 145; p. 472.  
 Jumeaux, B., Southwick, near Brighton, England. Apparatus for the optical projection of colored images. No. 944,787; Dec. 28; Sp. p. 5942; Gaz. vol. 149; p. 1025.  
 Jumeaux, C. (See Fraser and Jumeaux.)  
 Jumisko, E., Ludden, N. D. Fish-trap. No. 918,058; Apr. 13; Sp. p. 2238; Gaz. vol. 141; p. 402.  
 Jung, A. J. (See Russell and Jung.)  
 Jung, C., Berlin, Germany. Fastening for abrasive bodies having a porcelain base. No. 920,475; May 4; Sp. p. 770; Gaz. vol. 142; p. 124.  
 Jung, P. H., Macon, Ga. Box for postage-stamps. No. 927,655; July 13; Sp. p. 1983; Gaz. vol. 144; p. 346.  
 Junge, H., Baltimore, Md. Bottle-carrier. No. 919,021; Apr. 20; Sp. p. 4286; Gaz. vol. 141; p. 749.  
 Jungers, C. J., Sreator, Ill. Making wire-glass. No. 938,385; Oct. 26; Sp. p. 5857; Gaz. vol. 147; p. 994.  
 Junggren, O., Schenectady, N. Y., assignor to General Electric Company. Automatic brake for elastic-fluid turbines. No. 910,388; Jan. 19; Sp. p. 3995; Gaz. vol. 138; p. 717.  
 Junggren, O., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 910,472; Jan. 19; Sp. p. 4174; Gaz. vol. 138; p. 747.  
 Junggren, O., Schenectady, N. Y., assignor to General Electric Company. Middle bearing for vertical-shaft turbo-generators. No. 922,593; May 25; Sp. p. 5141; Gaz. vol. 142; p. 911.  
 Junghans, A., Schramberg, Germany. Luminous substance for indicators. No. 911,401; Feb. 2; Sp. p. 737; Gaz. vol. 139; p. 127.  
 Jungner, E. W., Kneippbaden, Norrköping, Sweden. Electrode for gas elements. No. 913,390; Feb. 23; Sp. p. 4878; Gaz. vol. 139; p. 874.  
 Jungner, E. W., Kneippbaden, Norrköping, Sweden. Carbon-consuming galvanic cell. No. 919,022; Apr. 20; Sp. p. 4287; Gaz. vol. 141; p. 749.  
 Jungner, E. W., Kneippbaden, assignor to Nya Ackumulator Aktiebolaget Jungner, Stockholm, Sweden. Making electrodes. No. 917,875; Apr. 13; Sp. p. 1839; Gaz. vol. 141; p. 336.  
 Junker, A., Holloway, Minn. Floor-jack. No. 940,695; Nov. 23; Sp. p. 4996; Gaz. vol. 148; p. 853.  
 Junkers, H., Aix-la-Chapelle, Germany. Calorimeter-lamp. No. 918,059; Apr. 13; Sp. p. 2239; Gaz. vol. 141; p. 402.  
 Junkers, H., Aix-la-Chapelle, Germany. Automatic regulator for gas-stoves. No. 926,194; June 29; Sp. p. 6522; Gaz. vol. 143; p. 1153.  
 Jurgensen, J. C. (See Kaiser and Jurgensen.)  
 Jurgensen, J. C., Tappan, N. Y. Circuit-closer for recording-anemometers. No. 923,185; June 1; Sp. p. 138; Gaz. vol. 143; p. 22.  
 Juruick, M. F., New York, N. Y., assignor, by mesne assignments, to Electric Bank Protection Company. Electric-lighting attachment for burglar-alarm systems. No. 942,964; Dec. 14; Sp. p. 2002; Gaz. vol. 149; p. 347.  
 Juruick, M. F., New York, N. Y., assignor, by mesne assignments, to Electric Bank Protection Company. Time-controller for burglar-alarm systems. No. 944,733; Dec. 28; Sp. p. 5818; Gaz. vol. 149; p. 1007.  
 Just, A. L., *et al.*, executors. (See Just, A. L.)  
 Just, J. A., deceased, Syracuse, N. Y.; A. L. Just and B. Stolz, executors. Utilizing dried milk. No. 939,138; Nov. 2; Sp. p. 1458; Gaz. vol. 148; p. 237.  
 Just, J. A., deceased, Syracuse, N. Y.; A. L. Just and B. Stolz, executors. Fibrous desiccated milk. No. 939,139; Nov. 2; Sp. p. 1462; Gaz. vol. 148; p. 238.  
 Just, J. H., Syracuse, N. Y. Means for controlling the movement of railway-vehicles. No. 936,325; Oct. 12; Sp. p. 1490; Gaz. vol. 147; p. 257.  
 Just, M. W., Brooklyn, N. Y. Display-box. No. 915,967; Mar. 23; Sp. p. 4748; Gaz. vol. 140; p. 841.  
 Justice, I. M., assignor to C. W. Raymond Co., Dayton, Ohio. Drier system for clay products. No. 921,255; May 11; Sp. p. 2370; Gaz. vol. 142; p. 415.  
 Justis, W. E., and A. V. Littrell, Roanoke, Va. Locomotive-pilot. No. 913,391; Feb. 23; Sp. p. 4880; Gaz. vol. 139; p. 874.  
 Jute and Hemp Manufacturing Comp., Ltd. (See Fuchs, F., assignor.)  
 Jutrash, F., Laurium, Mich. Trap. No. 920,748; May 4; Sp. p. 1323; Gaz. vol. 142; p. 214.  
 Jutt, E. (See Sercely, A., assignor.)  
 Jutz, E. J., St. Louis, Mo. Lifting-jack. No. 944,039; Dec. 21; Sp. p. 4317; Gaz. vol. 149; p. 744.  
 Kaag, E. C., assignor to L. Rothschild, New York, N. Y. Separable button. No. 925,193; June 15; Sp. p. 4462; Gaz. vol. 143; p. 762.  
 Kabelwerk Rheydt Actien-Gesellschaft. (See Grossmann, A., assignor.)  
 Kabisus, C. F., Salt Lake City, Utah. Pneumatic sander. No. 933,991; Sept. 14; Sp. p. 2090; Gaz. vol. 146; p. 344.  
 Kabo Corset Company. (See Florsheim, S., assignor.)  
 Kabureck, A., Alton, Ill. Gasolene-motor truck. No. 927,729; July 13; Sp. p. 2133; Gaz. vol. 144; p. 370.  
 Kabureck, G., Jersey City, N. J. Cushioning device for doors and the like. No. 918,060; Apr. 13; Sp. p. 2241; Gaz. vol. 141; p. 402.  
 Kačer, F. (See Isler, Wolff, and Kačer.)  
 Kačer, F., Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Compound of the anthracene series and making same. No. 925,917; June 22; Sp. p. 5938; Gaz. vol. 143; p. 1025.  
 Kačer, F., Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthracene dye and making same. No. 931,618; Aug. 17; Sp. p. 4180; Gaz. vol. 145; p. 717.  
 Kačer, F., Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Compound of the anthracene series and making same. No. 932,290; Aug. 24; Sp. p. 5642; Gaz. vol. 145; p. 962.  
 Kádár, R., and I. Róth, New York, N. Y. Lock. No. 914,423; Mar. 9; Sp. p. 1635; Gaz. vol. 140; p. 279.  
 Kaemmerling, J., assignor of one-half to T. J. Hruby, Chicago, Ill. Sand-iron. No. 943,254; Dec. 14; Sp. p. 2629; Gaz. vol. 149; p. 445.  
 Kaemmerer, P., Steglitz, near Berlin, assignor to Optische Anstalt C. P. Goerz, Aktiengesellschaft, Friedenau, near Berlin, Germany. Photographic change-box. No. 926,495; June 29; Sp. p. 7087; Gaz. vol. 143; p. 1250.  
 Kaestner, L., assignor to W. L. Kaestner Co., New York, N. Y. Bag-fastener. No. 920,578; May 4; Sp. p. 979; Gaz. vol. 142; p. 159.  
 Kaetker, H. (See Reno and Kaetker.)  
 Kafer, K. G., Eureka, S. D. Staple-driver. No. 913,014; Feb. 23; Sp. p. 4114; Gaz. vol. 139; p. 747.  
 Kaffke, P. O., Easton, Pa. Lifting-tongs for fruit-jars. No. 911,996; Feb. 9; Sp. p. 1989; Gaz. vol. 139; p. 348.  
 Kahl, H. (See Pope and Kahl.)  
 Kahl, H. G., and A. Keppler, New York, N. Y. Tool. No. 926,496; June 29; Sp. p. 7089; Gaz. vol. 143; p. 1251.  
 Kahler, O. W., *et al.* (See Fry, F. L., assignor.)  
 Kahlerth, C. W. (See Wood and Kahlerth.)  
 Kahlo, W. J., Toledo, Ohio. Artificial minnow. No. 925,482; June 22; Sp. p. 4999; Gaz. vol. 143; p. 883.

*Alphabetical list of patentees—Continued.*

- Kahn, E. C., Milwaukee, Wis. Metallic fence-post. No. 942,369; Dec. 7; Sp. p. 709; Gaz. vol. 149; p. 115.  
 Kahn, J., assignor to Trussed Concrete Steel Company, Detroit, Mich. Floor construction. No. 926,497; June 29; Sp. p. 7090; Gaz. vol. 143; p. 1251.  
 Kahn, J., assignor to Trussed Concrete Steel Company, Detroit, Mich. Forming ribbed expanded metal. No. 943,417; Dec. 14; Sp. p. 2964; Gaz. vol. 149; p. 500.  
 Kahn, J., Detroit, Mich., and T. H. Kane, Youngstown, Ohio, assignors to Trussed Concrete Steel Company, Detroit, Mich. Window-frame. No. 933,908; Sept. 14; Sp. p. 1936; Gaz. vol. 146; p. 318.  
 Kahn, L., assignor to Estate Stove Company, Hamilton, Ohio. Gas cooking-stove. No. 931,312; Aug. 17; Sp. p. 3591; Gaz. vol. 145; p. 619.  
 Kahn, M., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 936,456; Oct. 12; Sp. p. 1812; Gaz. vol. 147; p. 301.  
 Kahn, M., and A. Ossenbeck, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 935,031; Sept. 28; Sp. p. 4132; Gaz. vol. 146; p. 740.  
 Kahn, M. M., Louisville, Ky. Switch-hook-controlling device. No. 932,557; Aug. 31; Sp. p. 6190; Gaz. vol. 145; p. 1073.  
 Kahn, S., Baltimore, Md. Memorandum device. No. 916,561; Mar. 30; Sp. p. 5918; Gaz. vol. 140; p. 1062.  
 Kahne, C. C. (See Myers and Kahne.)  
 Kahoa, C. V., Russell, Iowa, assignor to one-half to J. H. Hancock, Bearcreek, Mont. Portable hay-stacker. No. 928,232; July 13; Sp. p. 3155; Gaz. vol. 144; p. 538.  
 Kain, J. A. (See Penzer, L. W., assignor.)  
 Kainer, F. C., South Haven, Mich., assignor to C. R. Pope, Chicago, Ill. Cigar-vending machine. No. 927,656; July 13; Sp. p. 1984; Gaz. vol. 144; p. 346.  
 Kainer, F. C., South Haven, Mich., assignor, by mesne assignments, to Pope Automatic Merchandizing Company, Chicago, Ill. Check-controlled mechanism. No. 941,716; Nov. 30; Sp. p. 7196; Gaz. vol. 148; p. 1213.  
 Kaiser, C., New York, and J. C. Jurgensen, Tappan, N. Y. Window. No. 920,876; May 4; Sp. p. 1607; Gaz. vol. 142; p. 256.  
 Kaiser, C. A., New York, assignor to one-half to E. Glaser, Brooklyn, N. Y. Turbine. No. 939,514; Nov. 9; Sp. p. 2360; Gaz. vol. 148; p. 391.  
 Kaiser, F. H., Buffalo, N. Y. Switch for railways. No. 925,343; June 15; Sp. p. 4724; Gaz. vol. 143; p. 806.  
 Kaiser, G. G., Harrison township, Clay county, Ind. Coal-burning stove. No. 914,847; Mar. 9; Sp. p. 2508; Gaz. vol. 140; p. 419.  
 Kaiser, T. W., assignor to G. T. Pendrith, Toronto, Ontario, Canada. Dough-dividing machine. No. 934,183; Sept. 14; Sp. p. 2474; Gaz. vol. 146; p. 408.  
 Kaiser, W., Los Angeles, Cal. Road and land leveling machine. No. 941,929; Nov. 30; Sp. p. 7645; Gaz. vol. 148; p. 1288.  
 Kaiser, W. M., Berkeley, Cal. Animal-trap. No. 915,028; Mar. 9; Sp. p. 2818; Gaz. vol. 140; p. 477.  
 Kaiser, W. O., Burlington, Iowa. Ointment-mill. No. 915,864; Mar. 23; Sp. p. 4549; Gaz. vol. 140; p. 808.  
 Kaiser, W. O., and O. Klein, Burlington, Iowa. Post-card rack. No. 934,318; Sept. 14; Sp. p. 2724; Gaz. vol. 146; p. 453.  
 Kakao-Compagnie Theodor Reichardt, Gesellschaft mit beschränkter Haftung, Firm of. (See Neumann, R. G., assignor.)  
 Kalamazoo Loose Leaf Binder Company. (See Bushong, H. F., assignor.)  
 Kalamazoo Loose Leaf Binder Company. (See Renworth, G. H., assignor.)  
 Kalamazoo Loose Leaf Binder Company. (See Wigginton, G. P., assignor.)  
 Kalamazoo Loose Leaf Binder Company. (See Wigginton and Hodges, assignors.)  
 Kalas, J., J. Klasna, and F. Barabas, Chicago, Ill. Ventilated mattress. No. 932,024; Aug. 24; Sp. p. 5108; Gaz. vol. 145; p. 873.  
 Kalbe, C. J. (See Lang and Kalbe.)  
 Kale, A., and C. Gillfillan, Palmerston North, New Zealand. Means for hanging window-curtains. No. 915,444; Mar. 16; Sp. p. 3682; Gaz. vol. 140; p. 641.  
 Kalesse, M. (See Spillman, M.)  
 Kaley, E. B., assignor to one-half to W. H. Thomas, Indianapolis, Ind. Carbureter. No. 921,410; May 11; Sp. p. 2713; Gaz. vol. 142; p. 466.  
 Kalhans, G. F. (See Lee, C. A., assignor.)  
 Kalgren, J. E., assignor to J. R. Clark Company, Minneapolis, Minn. Washbench. No. 920,476; May 4; Sp. p. 771; Gaz. vol. 142; p. 125.  
 Kalitzky, W., Hamburg-Barmbeck, Germany. Folding seat. No. 916,379; Mar. 23; Sp. p. 5502; Gaz. vol. 140; p. 976.  
 Kalkner, F., Nuremberg, assignor to Siemens-Schuckert Werke G. M. B. H., Berlin, Germany. Electrode for arc-lamps. No. 916,877; Mar. 30; Sp. p. 6491; Gaz. vol. 140; p. 1159.  
 Kall, V., Rockford, Ill. Fire-alarm. No. 911,730; Feb. 9; Sp. p. 1403; Gaz. vol. 139; p. 261.  
 Kallenbach, E. E., assignor to Pfeiffer Chemical Company, St. Louis, Mo. Counting and receptacle-filling machine. No. 937,152; Oct. 19; Sp. p. 3229; Gaz. vol. 147; p. 564.  
 Kalling, L., Baltimore, Md. Sealing-cap for bottles. No. 922,286; May 18; Sp. p. 4504; Gaz. vol. 142; p. 782.  
 Kallis, I. S., New York, and J. Berg, Brooklyn, N. Y. Trunk. No. 926,195; June 29; Sp. p. 6525; Gaz. vol. 143; p. 1154.  
 Kalm, J., Missoula, Mont. Horseshoe. No. 918,556; Apr. 20; Sp. p. 3256; Gaz. vol. 141; p. 593.  
 Kálmánovits, L., New York, N. Y. Billiard-cue. No. 927,150; July 6; Sp. p. 935; Gaz. vol. 144; p. 151.  
 Kalmus, H. T. (See Comstock, D. F., assignor.)  
 Kalsow, F. W., Manson, Iowa. Card-vending machine. No. 928,979; July 27; Sp. p. 4706; Gaz. vol. 144; p. 844.  
 Kaltschmidt, A. E., assignor of thirty-four one-hundredths to G. W. Willebrands, Detroit, Mich. Railway-crossing. No. 909,189; Jan. 12; Sp. p. 1571; Gaz. vol. 138; p. 282.  
 Kaltwasser, L. F., Belleville, Ill. Sanitary display and cover attachment for barrels, casks, or other receptacles. No. 920,579; May 4; Sp. p. 980; Gaz. vol. 142; p. 160.  
 Kamenstein, M., New York, N. Y. Sheet-metal vessel. No. 919,360; Apr. 27; Sp. p. 5151; Gaz. vol. 141; p. 893.  
 Kamenstein, M., New York, N. Y. Sheet-metal box. No. 919,878; Apr. 27; Sp. p. 6267; Gaz. vol. 141; p. 1069.  
 Kaminsky, B., assignor of one-half to J. M. Kaminsky, Indianapolis, Ind. Water-fountain. No. 940,879; Nov. 23; Sp. p. 5393; Gaz. vol. 148; p. 914.  
 Kaminsky, J. M. (See Kaminsky, B., assignor.)  
 Kammerer, J., New York, N. Y., assignor to Acme Weather Strip Company. Weather-strip. No. 915,445; Mar. 16; Sp. p. 3683; Gaz. vol. 140; p. 641.  
 Kamp, F. F., Jr. (See Moore and Kamp.)  
 Kamp, J. A., Metamora, Ill. Device for stretching wires. No. 930,382; Aug. 10; Sp. p. 1538; Gaz. vol. 145; p. 278.  
 Kampe, A. J., Chicago, Ill. Draft apparatus for stoves. No. 913,826; Mar. 2; Sp. p. 302; Gaz. vol. 140; p. 52.  
 Kampe, A., Cleveland, Ohio. Safety device for elevators. No. 943,939; Dec. 21; Sp. p. 4103; Gaz. vol. 149; p. 711.  
 Kampe, O., New York, N. Y. Trap for animals. No. 924,237; June 8; Sp. p. 2506; Gaz. vol. 143; p. 407.  
 Kampe, O., New York, N. Y. Razor-blade-stropping device. No. 928,664; July 20; Sp. p. 4086; Gaz. vol. 144; p. 712.  
 Kampe, O., New York, N. Y. Trimming-shears for lawns, hedges, &c. No. 935,309; Sept. 28; Sp. p. 4688; Gaz. vol. 146; p. 833.  
 Kampe, O., New York, N. Y. Razor-blade-stropping device. No. 943,355; Dec. 14; Sp. p. 2848; Gaz. vol. 149; p. 479.  
 Kan, E., Los Angeles, Cal. Gripping device. No. 924,238; June 8; Sp. p. 2509; Gaz. vol. 143; p. 408.  
 Kanaly, F. M., executor. (See Kanaly, M. E.)  
 Kanaly, M. E., deceased, Arlington, Mass.; F. M. Kanaly, executor. Door-hanger. No. 934,974; Sept. 21; Sp. p. 4017; Gaz. vol. 146; p. 698.  
 Kanawha Chemical Engine Manufacturing Company. (See Banning, J. O., assignor.)  
 Kandlbinder, E. F., Shreveport, La. Hat-hanger. No. 930,862; Aug. 10; Sp. p. 2545; Gaz. vol. 145; p. 439.  
 Kandle, M. M., Longmeadow, assignor to Springfield Printing & Binding Company, Springfield, Mass. Device for detecting inaccurately-fed sheets of paper. No. 923,658; June 1; Sp. p. 1213; Gaz. vol. 143; p. 186.  
 Kandó, C. de, Budapest, Austria-Hungary. Vehicle. No. 917,309; Apr. 6; Sp. p. 728; Gaz. vol. 141; p. 124.  
 Kando, K. von, Vado Ligure, Italy, assignor to G. Westinghouse, Pittsburg, Pa. Catenary suspension system for the trolley-wires of electric railways. No. 942,143; Dec. 7; Sp. p. 259; Gaz. vol. 149; p. 39.  
 Kane, J. W., and W. R. Christie, New York, N. Y. Belt-lacing tool. No. 930,765; Aug. 10; Sp. p. 2351; Gaz. vol. 145; p. 407.  
 Kane, M., Cincinnati, Ohio. Soft-tread horseshoe. No. 924,790; June 15; Sp. p. 3652; Gaz. vol. 143; p. 626.  
 Kane, M. J., Worcester, Mass. Street-sweeper. No. 935,991; Oct. 5; Sp. p. 834; Gaz. vol. 147; p. 124.  
 Kane, M. M., assignor of one-half to W. J. Gardner, Montgomery, Ala. Track device for railway-signals. No. 929,444; July 27; Sp. p. 5680; Gaz. vol. 144; p. 997.  
 Kane, T. H. (See Kahn and Kane.)  
 Kane, T. H., Youngstown, Ohio, assignor to Trussed Concrete Steel Company, Detroit, Mich. Forming expanded metal. No. 920,152; May 4; Sp. p. 118; Gaz. vol. 142; p. 18.  
 Kane, W., Philadelphia, Pa. Steam-boiler. No. 933,370; Sept. 7; Sp. p. 764; Gaz. vol. 146; p. 119.  
 Kane, W., Philadelphia, Pa. Steam or hot-water radiator. No. 933,371; Sept. 7; Sp. p. 765; Gaz. vol. 146; p. 120.  
 Kane, W. D. (See Weinat, E. M., assignor.)  
 Kaneaster, H. R., Brownwood, Tex. Chicken-roost. No. 934,075; Sept. 14; Sp. p. 2250; Gaz. vol. 146; p. 370.  
 Kamacher, S. H., Schenectady, N. Y., assignor to General Electric Company. Automatic motor control. No. 923,186; June 1; Sp. p. 140; Gaz. vol. 143; p. 23.  
 Kanner, S. (See Benedict, C. F., assignor.)



*Alphabetical list of patentees—Continued.*

- Kanonenberg, H. (See Lauber and Kanonenberg.)  
 Kanonenberg, H., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Transport-carriage for barrels of portable recoil-guns. No. 927,860; July 13; Sp. p. 2414; Gaz. vol. 144; p. 413.  
 Kanonenberg, H., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Wheeled gun-carriage. No. 932,025; Aug. 24; Sp. p. 5110; Gaz. vol. 145; p. 874.  
 Kans. s City Billiard Table Manufacturing Company. (See Treiber, T. R., assignor.)  
 Kansas City Hay Press Company. (See Burkett, J. W., assignor.)  
 Kansas City Vehicle Co. (See Gleason, H. F., assignor.)  
 Kansas Voting Machine Company. (See Currey, C. F., assignor.)  
 Kanski, R. T., New York, N. Y., assignor of one-half to C. De Wyrall, Ridgefield Park, N. J. Stair-tread. No. 943,418; Dec. 14; Sp. p. 2965; Gaz. vol. 149; p. 500.  
 Kantmann, A. G. (See Clark, R. W., assignor.)  
 Kantor, L., and W. Sheff, New York, N. Y. Scarf-pin, brooch, and similar article. No. 915,678; Mar. 16; Sp. p. 4188; Gaz. vol. 140; p. 722.  
 Kantz, H. S., Burnside, Pa. Coupling. No. 925,483; June 22; Sp. p. 5000; Gaz. vol. 143; p. 883.  
 Kapelman, F. G., Seattle, Wash. Butter-cutter. No. 916,714; Mar. 30; Sp. p. 6195; Gaz. vol. 140; p. 1110.  
 Kaplan, L., Clinton, Conn., assignor of one-half to O. J. Muller, New York, N. Y. Water-gage. No. 916,166; Mar. 23; Sp. p. 5118; Gaz. vol. 140; p. 905.  
 Kaplinger, C. H., Roslindale, assignor to American Steam Gauge & Valve Manufacturing Company, Boston, Mass. Safety-valve. No. 917,077; Apr. 6; Sp. p. 230; Gaz. vol. 141; p. 42.  
 Kappeler, H. (See Engi and Kappeler.)  
 Kansch, M., Colorado Springs, Colo. Paint-bucket support. No. 915,607; Mar. 16; Sp. p. 4023; Gaz. vol. 140; p. 695.  
 Kapus, E. F., St. Joseph, Mo. Combined sash lock and fastener. No. 913,730; Mar. 2; Sp. p. 108; Gaz. vol. 140; p. 19.  
 Karcher, A. A., Detroit, Mich. Valve-gear for explosive-engines. No. 938,386; Oct. 26; Sp. p. 3863; Gaz. vol. 147; p. 994.  
 Karcher, O., Canton, Ohio. Automobile safety device. No. 943,227; Dec. 14; Sp. p. 2566; Gaz. vol. 149; p. 435.  
 Karcher, O. H., Lansing, Mich. Ball-bearing. No. 937,153; Oct. 19; Sp. p. 3226; Gaz. vol. 147; p. 564.  
 Kardong, T., Minneapolis, Minn. Metal-bending machine. No. 930,969; Aug. 10; Sp. p. 2783; Gaz. vol. 145; p. 472.  
 Karg, A. E., assignor, by mesne assignments, of one-fourth to J. F. Burket and one-fourth to R. Burket, Findlay, Ohio. Door-opening attachment for elevators. No. 925,918; June 22; Sp. p. 5939; Gaz. vol. 143; p. 1025.  
 Karges, J. J., Kansas City, Mo. Tray. No. 914,285; Mar. 2; Sp. p. 1342; Gaz. vol. 140; p. 208.  
 Kariya, K., Los Angeles, Cal. Floor waxer and polisher. No. 922,148; May 18; Sp. p. 4219; Gaz. vol. 142; p. 737.  
 Karl, E., Litchfield, Conn. Printing-press chase. No. 921,411; May 11; Sp. p. 2715; Gaz. vol. 142; p. 467.  
 Karlson, O. (See Carlson and Karlson.)  
 Karlström, K., and G. Holmqvist, Buffalo, N. Y. Tire. No. 927,355; July 6; Sp. p. 1309; Gaz. vol. 144; p. 217.  
 Karn, L. (See Bohn, W., assignor.)  
 Karnat, A., Gut-Forstle-Bathen, Russia. Safety attachment for lamps. No. 927,974; July 13; Sp. p. 2652; Gaz. vol. 144; p. 451.  
 Karnes, H. E., Batson, Tex. Plunger. No. 934,184; Sept. 14; Sp. p. 2476; Gaz. vol. 146; p. 408.  
 Karpa, C., assignor to E. Matthes & Company, Berlin, Germany. Tool-holder. No. 928,057; July 13; Sp. p. 2819; Gaz. vol. 144; p. 480.  
 Karpen, I., assignor to S. Karpen & Bros., Chicago, Ill. Chair and other article of furniture. No. 924,239; June 8; Sp. p. 2510; Gaz. vol. 143; p. 408.  
 Karpen, I., assignor to S. Karpen & Bros., Chicago, Ill. Upholstering-machine. No. 931,313; Aug. 17; Sp. p. 3593; Gaz. vol. 145; p. 619.  
 Karpp, C., Flushing, assignor of one-half to H. Hermann Lumber Co., New York, N. Y. Rotary cutter for woodworking-machines. No. 924,240; June 8; Sp. p. 2511; Gaz. vol. 143; p. 408.  
 Karr, H. C., Washington, D. C. Watch-holding clock-case. No. 919,879; Apr. 27; Sp. p. 6267; Gaz. vol. 141; p. 1069.  
 Karrer, C. J. (See Standard, C., assignor.)  
 Karrer, J., Zurich, assignor to Maschinenfabrik Oerlikon, Oerlikon, near Zurich, Switzerland. Steam-turbine. No. 930,766; Aug. 10; Sp. p. 2352; Gaz. vol. 145; p. 407.  
 Karsam Soap Company. (See Samuel and Lockwood, assignors.)  
 Karssen, J., Holland, Mich. Vehicle-wheel self-runner. No. 910,206; Jan. 19; Sp. p. 3592; Gaz. vol. 138; p. 652.  
 Karssen, J., Holland, Mich. Sleigh-runner for vehicle-wheels. No. 933,463; Sept. 7; Sp. p. 978; Gaz. vol. 146; p. 148.  
 Karst, C., et al. (See Mather, D. H., assignor.)  
 Karsz, S., Schenectady, N. Y. Lock. No. 944,268; Dec. 28; Sp. p. 4780; Gaz. vol. 149; p. 846.  
 Karthaus, P., Haspe, Germany. Belt-striking device. No. 919,437; Apr. 27; Sp. p. 5319; Gaz. vol. 141; p. 919.  
 Kartrude, P. O., Luverne, Minn. Harvester. No. 932,291; Aug. 24; Sp. p. 5643; Gaz. vol. 145; p. 962.  
 Kaschibufske, J. J., Sheboygan, Wis. Slicing device. No. 910,130; Jan. 19; Sp. p. 3418; Gaz. vol. 138; p. 626.  
 Kaschub, G. E., Meriden, Conn. Gas-chandelier. No. 923,433; June 1; Sp. p. 722; Gaz. vol. 143; p. 107.  
 Kaselow, A., St. Louis, Mo. Window. No. 934,185; Sept. 14; Sp. p. 2478; Gaz. vol. 146; p. 409.  
 Kaser, F. D., Silverton, Oreg. Automatic brake for vehicles. No. 931,430; Aug. 17; Sp. p. 3823; Gaz. vol. 145; p. 660.  
 Kashian, M. H., Amesbury, Mass. Apparatus for making seat-bodies for automobiles. No. 934,919; Sept. 21; Sp. p. 3904; Gaz. vol. 146; p. 677.  
 Kasjens, J. G., Peoria, Ill. Nozzle for garden-hose. No. 933,464; Sept. 7; Sp. p. 980; Gaz. vol. 146; p. 148.  
 Kasley, A. T., Swissvale, Pa., assignor to Westinghouse Machine Company. Pump. No. 921,118; May 11; Sp. p. 2088; Gaz. vol. 142; p. 368.  
 Kaspar, J. F., Prague, Nebr. Bridge. No. 940,326; Nov. 16; Sp. p. 4174; Gaz. vol. 148; p. 704.  
 Kasparek, F., assignor of one-half to A. Desutter, Jeannette, Pa. Rotary internal-combustion motor. No. 930,601; Aug. 10; Sp. p. 2014; Gaz. vol. 145; p. 353.  
 Kasralowicz, E., New York, N. Y. Apparel apparatus. No. 932,870; Aug. 31; Sp. p. 6849; Gaz. vol. 145; p. 1176.  
 Kast, H. C. C., and L. C. Lathrop, Barnum, Wis. Automatic fire-extinguisher. No. 920,340; May 4; Sp. p. 510; Gaz. vol. 142; p. 81.  
 Kast, J., Boston, assignor of one-fourth to G. H. Lindeboom, Malden, Mass. Endless woven belt. No. 912,474; Feb. 16; Sp. p. 2989; Gaz. vol. 139; p. 540.  
 Kastendike, W. E., New Market, N. J. Truck. No. 916,324; Mar. 23; Sp. p. 5396; Gaz. vol. 140; p. 958.  
 Kastjack, J. (See Persic, F., assignor.)  
 Kato, G. P., Jr., et al. (See Kleinfield, A., assignor.)  
 Kato, G. P., Sr., Jersey City, N. J. Arch-prop for use in boots and shoes. No. 916,715; Mar. 30; Sp. p. 6195; Gaz. vol. 140; p. 1110.  
 Katterjohn, W. W., Henderson, Ky. Candle or lamp holder. No. 928,131; July 13; Sp. p. 2944; Gaz. vol. 144; p. 503.  
 Katz, H. H., Dubois, Ind. Mold for roofing-tiles. No. 934,734; Sept. 21; Sp. p. 3539; Gaz. vol. 146; p. 616.  
 Katz, L. (See Ordóñez and Katz.)  
 Katz, S., New York, N. Y. Call-bell. No. 909,092; Jan. 5; Sp. p. 1349; Gaz. vol. 138; p. 216.  
 Katzenberg, B., New York, N. Y. Convertible table and settee. No. 922,287; May 18; Sp. p. 4505; Gaz. vol. 142; p. 782.  
 Katzenberg, B., New York, N. Y. Curling-tool. No. 943,749; Dec. 21; Sp. p. 3708; Gaz. vol. 149; p. 645.  
 Katzenmeyer, W. S., Lakewood, Ohio. Fastening device. No. 944,788; Dec. 28; Sp. p. 5943; Gaz. vol. 149; p. 1025.  
 Katzenstein, G. B., Jr. (See Denhard, H. W., assignor.)  
 Katzinger, E., Chicago, Ill. Furnace-grate. No. 926,335; June 29; Sp. p. 6811; Gaz. vol. 143; p. 1198.  
 Katzung, G. W., Pittsfield, Mass. Counting-machine. No. 919,590; Apr. 27; Sp. p. 5662; Gaz. vol. 141; p. 973.  
 Käufer, C., and F. Schoppe, Hanover, Germany. Apparatus for spreading materials on edibles, such as cake, biscuit, and the like. No. 934,817; Sept. 21; Sp. p. 3709; Gaz. vol. 146; p. 644.  
 Kauffman, A. J. (See Kauffman, B. K. and A. J.)  
 Kauffman, B. K., Kinzers, and A. J. Kauffman, Gap, Pa., assignors to said B. K. Kauffman. Automatic mail-bag catching and delivering apparatus. No. 920,580; May 4; Sp. p. 983; Gaz. vol. 142; p. 160.  
 Kauffman, J. A. (See Osgood, E. A., assignor.)  
 Kauffman, A., assignor to Res Manufacturing Company, Milwaukee, Wis. Detachable roller and bracket for same. No. 925,105; June 15; Sp. p. 4292; Gaz. vol. 143; p. 731.  
 Kauffman, A. G., assignor to American Callphone Company, New York, N. Y. Telephone-transmitter. No. 931,127; Aug. 17; Sp. p. 3163; Gaz. vol. 145; p. 554.  
 Kauffman, A. G., and L. J. Lippmann, assignors to American Callphone Company, New York, N. Y. Telephone. No. 921,119; May 11; Sp. p. 2091; Gaz. vol. 142; p. 358.  
 Kauffman, A. J., and P. M. Yohe, New Kensington, Pa. Veneering-press. No. 927,975; July 13; Sp. p. 2654; Gaz. vol. 144; p. 451.  
 Kaufman, F., assignor to W. Goodrow, Chicago, Ill. Paper-wrapper for moldings, &c. No. 922,772; May 25; Sp. p. 5510; Gaz. vol. 142; p. 969.  
 Kaufman, I., Baltimore, Md. Tag-fastener. No. 915,357; Mar. 16; Sp. p. 3507; Gaz. vol. 140; p. 611.  
 Kaufman, J., New York, N. Y. Razor-blade holder. No. 921,998; May 18; Sp. p. 3937; Gaz. vol. 142; p. 688.  
 Kaufman, J., New York, N. Y. Safety-razor-blade package. No. 932,137; Aug. 24; Sp. p. 5345; Gaz. vol. 145; p. 911.  
 Kaufman, J. H., Elmore, Minn. Hinge. No. 933,648; Sept. 7; Sp. p. 1386; Gaz. vol. 146; p. 208.

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- Kaufman, J. M., and F. A. Wilske, Champaign, Ill. Display apparatus. No. 928,980; July 27; Sp. p. 4708; Gaz. vol. 144; p. 845.
- Kaufman, M. (See Calvin and Kaufman.)
- Kaufman, M., Worcester, Mass. Watch-protector. No. 911,657; Feb. 9; Sp. p. 1268; Gaz. vol. 139; p. 238.
- Kaufman, M., New York, N. Y. Plaque-hanger. No. 928,132; July 13; Sp. p. 2946; Gaz. vol. 144; p. 503.
- Kaufman, T., Anna, Ill. Rotary grate. No. 927,730; July 13; Sp. p. 2134; Gaz. vol. 144; p. 370.
- Kaufmann, A., and A. Goldenberg, Bucarest, Roumania. Folding baby-carriage. No. 919,880; Apr. 27; Sp. p. 6269; Gaz. vol. 141; p. 1069.
- Kaufmann, E., St. Louis, Mo. Bushing. No. 923,273; June 1; Sp. p. 383; Gaz. vol. 143; p. 53.
- Kaufmann, J. F. (See Hellmich, C., assignor.)
- Kaufmann, L. (See Steinbuch and Kaufmann.)
- Kaufmann, O., assignor to Block Light Company, New York, N. Y. Incandescent mantle. No. 940,639; Nov. 16; Sp. p. 4860; Gaz. vol. 148; p. 809.
- Kaufmann, W. P., *et al.* (See Cartin, J., assignor.)
- Kauth, J., St. Cloud, Minn. Excavating bucket-head. No. 924,791; June 15; Sp. p. 3654; Gaz. vol. 143; p. 626.
- Kautschukgesellschaft Schön & Company. (See Scholz, H., assignor.)
- Kavanagh, P., Liverpool, England. Tram-car. No. 926,810; July 6; Sp. p. 206; Gaz. vol. 144; p. 35.
- Kavie, O. C., Syracuse, N. Y. Type for type-writing and other machines. No. 935,519; Sept. 28; Sp. p. 5126; Gaz. vol. 146; p. 901.
- Kavie, O. C., assignor to H. A. Moyer and E. G. Latta, Syracuse, N. Y. Line-spacing mechanism for type-writing machines. No. 926,572; June 29; Sp. p. 7222; Gaz. vol. 143; p. 1277.
- Kavie, O. C., assignor to H. A. Moyer and E. G. Latta, Syracuse, N. Y. Ribbon mechanism for type-writing machines. No. 933,181; Sept. 7; Sp. p. 311; Gaz. vol. 146; p. 51.
- Kavie, O. C., assignor to H. A. Moyer, Syracuse, N. Y. Ribbon mechanism for type-writing machines. No. 944,734; Dec. 28; Sp. p. 5823; Gaz. vol. 149; p. 1007.
- Kawahara, G. K., Pasadena, Cal. Saw-filing machine. No. 917,611; Apr. 6; Sp. p. 1265; Gaz. vol. 141; p. 223.
- Kawakami, Y., Dawson, Yukon Territory, Canada. Ironing-machine. No. 921,120; May 11; Sp. p. 2092; Gaz. vol. 142; p. 369.
- Kawasaki, G., Denver, Colo. Bread-cutter. No. 937,611; Oct. 19; Sp. p. 4200; Gaz. vol. 147; p. 715.
- Kay, A., Rochdale, and M. Tratliff, Bradford, England. Apparatus for folding cloth. No. 919,591; Apr. 27; Sp. p. 5665; Gaz. vol. 141; p. 974.
- Kay, H. E., East Templeton, Mass. Turbine-motor. No. 913,731; Mar. 2; Sp. p. 111; Gaz. vol. 140; p. 20.
- Kay, J. R., New York, N. Y. Mold. No. 940,463; Nov. 16; Sp. p. 4488; Gaz. vol. 148; p. 750.
- Kaye, E., Monaca, Pa. Building block or brick. No. 915,608; Mar. 16; Sp. p. 4025; Gaz. vol. 140; p. 695.
- Kaye, E., Monaca, Pa. Manufacturing building blocks or bricks and glass facings therefor. No. 915,609; Mar. 16; Sp. p. 402; Gaz. vol. 140; p. 695.
- Kaye, K. M., New York, N. Y. Cloth-transfer sheet. No. 911,594; Feb. 9; Sp. p. 1112; Gaz. vol. 139; p. 216.
- Kaye, S., Columbus, Miss. Roller-bearing. No. 922,288; May 18; Sp. p. 4507; Gaz. vol. 142; p. 782.
- Kaylor, H. M., Oil City, Pa. Table-mat. No. 928,129; July 13; Sp. p. 2941; Gaz. vol. 144; p. 502.
- Kays, J. W. (See Chrysler, Luther, and Kays.)
- Kaysan, H. A., Cassel, Germany. Nozzle for syringes and the like. No. 908,573; Jan. 5; Sp. p. 292; Gaz. vol. 138; p. 49.
- Kaysan, H. A., Cassel, Germany. Nozzle for syringes and the like. No. 909,093; Jan. 5; Sp. p. 1350; Gaz. vol. 138; p. 217.
- Kayser, A., Buffalo, assignor to Electric Smelting and Aluminum Company, Lockport, N. Y. Detergent compound. No. 923,850; June 8; Sp. p. 1693; Gaz. vol. 143; p. 281.
- Kayser, A., Buffalo, assignor to Electric Smelting and Aluminum Company, Lockport, N. Y. Detergent. No. 924,792; June 15; Sp. p. 3655; Gaz. vol. 143; p. 626.
- Kayser, W. M., Upham, N. D. Rein-guide. No. 926,573; June 29; Sp. p. 7226; Gaz. vol. 143; p. 1277.
- Kayser, G., St. Louis, Mo. Lock-up device for printing-presses. No. 914,848; Mar. 9; Sp. p. 2511; Gaz. vol. 140; p. 420.
- Keagle, M. L., Parsons, W. Va. Music-leaf turner. No. 920,749; May 4; Sp. p. 1325; Gaz. vol. 142; p. 215.
- Keagle, R. E. (See Langer, G. L., assignor.)
- Keagle, R. E., Lodi, Cal. Building-block. No. 922,594; May 25; Sp. p. 5143; Gaz. vol. 142; p. 912.
- Keagy, M. L., *et al.* (See Filliez, H. J., assignor.)
- Kearnes, J. M., Esto, Ky. Wrench. No. 915,446; Mar. 16; Sp. p. 3685; Gaz. vol. 140; p. 641.
- Kearney, E., New York, N. Y. Hair-tonic. No. 924,359; June 8; Sp. p. 2755; Gaz. vol. 143; p. 449.
- Kearney, E. W. C., Westminster, London, England. Tube-railway system. No. 921,845; May 18; Sp. p. 3630; Gaz. vol. 142; p. 639.
- Kearney, E. W. C., Westminster, London, England. Grooved wheel for monorailway and tramway systems. No. 925,106; June 15; Sp. p. 4293; Gaz. vol. 143; p. 731.
- Kearney, J. F., Pittsburg, Pa. Paper-hanger's table or platform. No. 930,188; Aug. 3; Sp. p. 1186; Gaz. vol. 145; p. 193.
- Kearney, M. J. (See Kearney, T. L. and M. J.)
- Kearney, T. A., U. S. Navy. Banding projectiles. No. 930,863; Aug. 10; Sp. p. 2546; Gaz. vol. 145; p. 439.
- Kearney, T. L. and M. J., Carbondale, Pa. Brush-holding stud. No. 930,864; Aug. 10; Sp. p. 2548; Gaz. vol. 145; p. 440.
- Kearns, C. A. (See Wiegand and Kronenberg, assignors.)
- Kearns, E. L., *et al.* (See Nielsen, O., assignor.)
- Keasbey & Mattison Company. (See Clark, G. A., assignor.)
- Keasbey & Mattison Company. (See Mattison, R. V., Jr., assignor.)
- Keating, H. J., Chicago, Ill. Clock-mount. No. 909,422; Jan. 12; Sp. p. 2005; Gaz. vol. 138; p. 356.
- Keating, J. H., Lismore, Minn. Twine-cutter. No. 941,995; Nov. 30; Sp. p. 7766; Gaz. vol. 148; p. 1308.
- Keating, W., New York, N. Y. Mechanism for closing sliding doors. No. 920,477; May 4; Sp. p. 771; Gaz. vol. 142; p. 125.
- Keating, W., New York, N. Y. Door-latch. No. 920,478; May 4; Sp. p. 773; Gaz. vol. 142; p. 125.
- Keays, H. C., Elk River, Minn. Signal. No. 929,445; July 27; Sp. p. 5682; Gaz. vol. 144; p. 998.
- Keays, R. H., New York, N. Y. Tunnel-boring device. No. 912,575; Feb. 16; Sp. p. 3216; Gaz. vol. 139; p. 577.
- Keck, C., Crescent Springs, Ky., and A. Dom, Hartwell, assignors to said Keck and Dom, and H. H. Hyams, Cincinnati, Ohio. File-box. No. 941,681; Nov. 30; Sp. p. 7100; Gaz. vol. 148; p. 1200.
- Keck, J. A., Decatur, Ill. Ironing-table. No. 920,341; May 4; Sp. p. 511; Gaz. vol. 142; p. 81.
- Keck, J. A., Decatur, Ill. Folding table. (Reissue.) No. 13,013; Aug. 17; Sp. p. 4423; Gaz. vol. 145; p. 751.
- Keck, N. J., and R. E. Lewis, Lockport, N. Y. Jar-wrench. No. 931,765; Aug. 24; Sp. p. 4543; Gaz. vol. 145; p. 789.
- Keck, P., *et al.* (See Austin and Cooper, assignors.)
- Keedwell, A. C., New York, N. Y. Nut-lock. No. 915,772; Mar. 23; Sp. p. 4393; Gaz. vol. 140; p. 779.
- Keefauver, J. F. (See James, D., assignor.)
- Keefe, J., Boston, assignor to C. S. Knowles, New Bedford, Mass. Joint for electrical devices. No. 934,670; Sept. 21; Sp. p. 3413; Gaz. vol. 146; p. 595.
- Keefe, H. V., Fort Wayne, Ind. Bowling-alley. No. 943,419; Dec. 14; Sp. p. 2966; Gaz. vol. 149; p. 501.
- Keefe, O., assignor of two-thirds to I. Lichtenstein, New York, N. Y. Centrifugal drier. No. 922,149; May 18; Sp. p. 4221; Gaz. vol. 142; p. 739.
- Keefe, P. S., assignor to Bryant Electric Company, Bridgeport, Conn. Inclosed fuse. No. 916,167; Mar. 23; Sp. p. 5119; Gaz. vol. 140; p. 906.
- Keegan, H. F., New York, assignor to National Machine Company, Mamaroneck, N. Y. Sewing-machine. No. 935,662; Oct. 5; Sp. p. 81; Gaz. vol. 147; p. 14.
- Keegan, J. P., Pleasantville, N. Y. Bulletin. No. 930,479; Aug. 10; Sp. p. 1719; Gaz. vol. 145; p. 311.
- Keel, J., Albany, Ga. Lace-holder. No. 926,876; July 6; Sp. p. 360; Gaz. vol. 144; p. 57.
- Keeler, F., White Plains, N. Y. Stuffing-box gland. No. 943,356; Dec. 14; Sp. p. 2851; Gaz. vol. 149; p. 479.
- Keeler, H. E., New York, N. Y. Stay-roller for car-doors. No. 912,382; Feb. 16; Sp. p. 2800; Gaz. vol. 139; p. 511.
- Keeler, H. E., New York, N. Y., assignor to Curtain Supply Company, Chicago, Ill. Curtain-fixture. No. 919,180; Apr. 20; Sp. p. 4580; Gaz. vol. 141; p. 793.
- Keeler, H. E., New York, N. Y., assignor to Curtain Supply Company, Chicago, Ill. Curtain-fixture. No. 923,794; June 1; Sp. p. 1556; Gaz. vol. 143; p. 232.
- Keeler, H. E., New York, N. Y., assignor to Curtain Supply Company, Chicago, Ill. Curtain-fixture. No. 925,344; June 15; Sp. p. 4726; Gaz. vol. 143; p. 807.
- Keeler, L. M., Scarsdale, and J. Rampp, New York, N. Y. Carbonator. No. 930,189; Aug. 3; Sp. p. 1188; Gaz. vol. 145; p. 193.
- Keely, J. F., Chicago, Ill. Self-flocking relay. No. 938,588; Nov. 2; Sp. p. 335; Gaz. vol. 148; p. 49.
- Keen, M., Philadelphia, Pa. Sound-reproducing machine. No. 929,859; Aug. 3; Sp. p. 505; Gaz. vol. 145; p. 81.
- Keen, M., Philadelphia, Pa. Sound-box for talking-machines. No. 940,161; Nov. 16; Sp. p. 3792; Gaz. vol. 148; p. 646.
- Keen, W. S. (See Evans, W. C. D., assignor.)
- Keen, W. W., Richmond, Ind. Outing-cottage. No. 919,361; Apr. 27; Sp. p. 5152; Gaz. vol. 141; p. 893.
- Keenan, H. J., and E. J. Tobin, assignors of one-third to S. H. Carroll, Jackson, Mich. Reinforced-cement sectional conduit. No. 918,678; Apr. 20; Sp. p. 3571; Gaz. vol. 141; p. 635.



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 Keenan, M. T., New York, N. Y. Horseshoe. No. 924,241; June 8; Sp. p. 2513; Gaz. vol. 143; p. 408.  
 Keene, G. C., Cincinnati, Ohio. Cornice-brake. No. 941,783; Nov. 30; Sp. p. 7337; Gaz. vol. 148; p. 1236.  
 Keene, G. J., Chicago, Ill. Support for books and other articles. No. 943,255; Dec. 14; Sp. p. 2631; Gaz. vol. 149; p. 445.  
 Keene, J., Chicago, Ill. Lawn-sprinkler. No. 930,767; Aug. 10; Sp. p. 2355; Gaz. vol. 145; p. 407.  
 Keene, J. R., Nyack, assignor of one-half to C. A. Tatum, New York, N. Y. Cutter-head. No. 924,078; June 8; Sp. p. 2117; Gaz. vol. 143; p. 353.  
 Keene, W. G., Lynn, Mass., assignor, by mesne assignments, to Morley Button Manufacturing Company. Tag. No. 913,732; Mar. 2; Sp. p. 113; Gaz. vol. 140; p. 20.  
 Keene, W. J., assignor to Chicago Spring Butt Company, Chicago, Ill. Hinge. No. 919,881; Apr. 27; Sp. p. 6270; Gaz. vol. 141; p. 1070.  
 Keene, W. J., assignor to Chicago Spring Butt Company, Chicago, Ill. Hinge. No. 919,882; Apr. 27; Sp. p. 6272; Gaz. vol. 141; p. 1070.  
 Keene, W. J., and G. W. Schuster, assignors to Chicago Spring Butt Company, Chicago, Ill. Hinge and supporting box-flange. No. 919,726; Apr. 27; Sp. p. 5931; Gaz. vol. 141; p. 1018.  
 Keene, W. J., and G. W. Schuster, assignors to Chicago Spring Butt Company, Chicago, Ill. Door-stop and supporting box-flange. No. 919,727; Apr. 27; Sp. p. 5934; Gaz. vol. 141; p. 1018.  
 Keene, W. F., Portland, Me., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 915,679; Mar. 16; Sp. p. 4189; Gaz. vol. 140; p. 722.  
 Keener, C. (See Huehn, J. H., assignor.)  
 Keeney, C. H., Hartford, Conn. Dust-separator. No. 912,686; Feb. 16; Sp. p. 3446; Gaz. vol. 139; p. 615.  
 Keep, W. J., Detroit, Mich. Carburetor. No. 910,207; Jan. 19; Sp. p. 3593; Gaz. vol. 138; p. 652.  
 Keep, W. J., Detroit, Mich. Melting-cupola for metal. No. 929,598; July 27; Sp. p. 5965; Gaz. vol. 144; p. 1048.  
 Keeport, B. B. and D. H., Peru, Ind. Combined riding and driving whip and cane. No. 918,557; Apr. 20; Sp. p. 3258; Gaz. vol. 141; p. 594.  
 Keeport, D. H. (See Keeport, B. B. and D. H.)  
 Keeports, D. B., Philadelphia, Pa. Sand-box for cars. No. 937,813; Oct. 26; Sp. p. 4615; Gaz. vol. 147; p. 799.  
 Keeran, C. R., Bloomington, Ill. Switch and detector-bar throwing mechanism. No. 925,345; June 15; Sp. p. 4729; Gaz. vol. 143; p. 807.  
 Kees, F. D., Beatrice, Nebr. Furnace-regulator. No. 913,507; Feb. 23; Sp. p. 5108; Gaz. vol. 139; p. 912.  
 Keeshin, C. H., New Haven, Conn. Hoop. No. 923,187; June 1; Sp. p. 142; Gaz. vol. 143; p. 23.  
 Keesling, E. A., Sylvia, Kans. Stackers. No. 910,131; Jan. 19; Sp. p. 3419; Gaz. vol. 138; p. 626.  
 Keeter, E. D., Salisbury, N. C. Gage. No. 933,309; Sept. 7; Sp. p. 625; Gaz. vol. 146; p. 97.  
 Keeter, E. D., Salisbury, N. C. Saw-filing machine. No. 935,912; Oct. 5; Sp. p. 669; Gaz. vol. 147; p. 98.  
 Keeter, J. H., Spencer, N. C. Safety stuffing-box. No. 911,047; Feb. 2; Sp. p. 45; Gaz. vol. 139; p. 16.  
 Keeton, J., New York, assignor of one-half to S. B. Rains, Brooklyn, N. Y. Rail. No. 935,310; Sept. 28; Sp. p. 4691; Gaz. vol. 146; p. 833.  
 Kefenstein, H. O., New Orleans, La. Boiler. No. 908,574; Jan. 5; Sp. p. 293; Gaz. vol. 138; p. 50.  
 Kefenstein, H. O., New Orleans, La. Boiler. No. 920,479; May 4; Sp. p. 776; Gaz. vol. 142; p. 126.  
 Kefenstein, H. O., New Orleans, La. Vertical boiler. No. 925,107; June 15; Sp. p. 4294; Gaz. vol. 143; p. 723.  
 Kefenstein, H. O., New Orleans, La. Railway-track. No. 926,877; July 6; Sp. p. 361; Gaz. vol. 144; p. 58.  
 Kehoe, C. S., *et al.*, executors. (See Barratt, W. T., assignor.)  
 Kehoe, C. S. (See Hurley and Barratt, assignors.)  
 Kehoe, W. J., Washington, D. C. Recording speech. No. 908,575; Jan. 5; Sp. p. 296; Gaz. vol. 138; p. 50.  
 Kehoe, W. J., Washington, D. C. Stenographic machine. No. 940,255; Nov. 16; Sp. p. 3996; Gaz. vol. 148; p. 680.  
 Kehrnhahn, A. H., Frankfurt-on-the-Main, Germany. Short-cylinder hide-treating machine. No. 926,811; July 6; Sp. p. 208; Gaz. vol. 144; p. 35.  
 Kehrnhahn, A. H., Frankfurt-on-the-Main, Germany. Splitting-machine for stripping off flesh from hides. No. 944,488; Dec. 28; Sp. p. 5288; Gaz. vol. 149; p. 923.  
 Kehring, R. H. (See Stiner and Kehring.)  
 Keiffer, C. H., Akron, Ohio. Tire. No. 925,580; June 22; Sp. p. 5195; Gaz. vol. 143; p. 915.  
 Keiffer, W. G. (See Pinson, B. F., assignor.)  
 Keighley, C. (See Keighley, W. B., C., and C. P.)  
 Keighley, C. P. (See Keighley, W. B., C., and C. P.)  
 Keighley and Sons, C. (See Keighley, W. B., assignor.)  
 Keighley, W. B., Vineland, N. J. Well-beating machine. No. 920,877; May 4; Sp. p. 1609; Gaz. vol. 142; p. 256.  
 Keighley, W. B., Vineland, N. J. Sharpening means for band-knives. No. 937,532; Oct. 19; Sp. p. 4058; Gaz. vol. 147; p. 690.  
 Keighley, W. B., assignor to C. Keighley and Sons, Vineland, N. J. Inseam-trimming machine. No. 934,186; Sept. 14; Sp. p. 2480; Gaz. vol. 146; p. 409.  
 Keighley, W. B., C., and C. P., Vineland, N. J. Band-saw knife for trimming shoes. No. 928,133; July 13; Sp. p. 2947; Gaz. vol. 144; p. 504.  
 Keil, F., assignor to F. Keil & Son, New York, N. Y. Hinge. No. 920,960; May 11; Sp. p. 1770; Gaz. vol. 142; p. 314.  
 Keil, F., assignor to F. Keil & Son, New York, N. Y. Latch. No. 920,961; May 11; Sp. p. 1771; Gaz. vol. 142; p. 315.  
 Keil, G. F., and C. F. Mickelson, Sherburn, Minn. Plunger for tile-machines. No. 911,245; Feb. 2; Sp. p. 444; Gaz. vol. 139; p. 76.  
 Keil, H. F., Bronxville, N. Y. Combined lock-face and escutcheon. No. 926,336; June 29; Sp. p. 6813; Gaz. vol. 143; p. 1198.  
 Keil, H. F., Bronxville, assignor to F. Keil & Son, New York, N. Y. Lock. No. 935,913; Oct. 5; Sp. p. 676; Gaz. vol. 147; p. 98.  
 Keil, H. F., Bronxville, assignor to F. Keil & Son, New York, N. Y. Lock. No. 936,134; Oct. 5; Sp. p. 1128; Gaz. vol. 147; p. 171.  
 Keil, R., Braddock, Pa. Wrench. No. 912,687; Feb. 16; Sp. p. 3447; Gaz. vol. 139; p. 615.  
 Keil & Son, F. (See Keil, F., assignor.)  
 Keil & Son, F. (See Keil, H. F., assignor.)  
 Keilholtz, P. O., Baltimore, Md. Furnace for burning hydrocarbons. No. 915,097; Mar. 16; Sp. p. 2975; Gaz. vol. 140; p. 527.  
 Keilholtz, P. O., Baltimore, and F. E. Ricketts, Derwood, Md. Overload and reverse current relay. No. 944,040; Dec. 21; Sp. p. 4318; Gaz. vol. 149; p. 744.  
 Keiner, H. A., New York, N. Y. Sheet-metal container. (Reissue.) No. 12,955; May 11; Sp. p. 3219; Gaz. vol. 142; p. 550.  
 Keiner, H. A., New York, N. Y. Sheet-metal container. No. 929,446; July 27; Sp. p. 5682; Gaz. vol. 144; p. 998.  
 Keip, H. A., assignor to Electro Surgical Instrument Company, Rochester, N. Y. Electric-current regulator. No. 925,776; June 22; Sp. p. 5641; Gaz. vol. 143; p. 978.  
 Keiper, F., Rochester, N. Y. Voting-machine. No. 910,389; Jan. 19; Sp. p. 3998; Gaz. vol. 138; p. 718.  
 Keiper, F., Rochester, N. Y. Interlocking mechanism for voting-machines. No. 933,372; Sept. 7; Sp. p. 767; Gaz. vol. 146; p. 120.  
 Keirn, W., Wichita, Kans. Vise. No. 915,184; Mar. 16; Sp. p. 3170; Gaz. vol. 140; p. 556.  
 Keiser, O. L., Centerville, Ind. Trip device for clover-seed bunchers. No. 915,773; Mar. 23; Sp. p. 4393; Gaz. vol. 140; p. 780.  
 Keitel, H., assignor of one-half to Momberger & Co., Dusseldorf, Germany. Rolling-mill. No. 928,768; July 20; Sp. p. 4281; Gaz. vol. 144; p. 746.  
 Keith, C., and G. F. Lister, Mansfield, Ohio. Door-hinge. No. 922,289; May 18; Sp. p. 4508; Gaz. vol. 142; p. 782.  
 Keith, C. B., assignor of one-half to C. A. Newman, Enumclaw, Wash. Key-fastener. No. 914,286; Mar. 2; Sp. p. 1344; Gaz. vol. 140; p. 208.  
 Keith, E. W., and E. Danner, Toledo, Ohio. Tack-driver. No. 926,658; June 29; Sp. p. 7399; Gaz. vol. 143; p. 1305.  
 Keith, G. (See Keith, J. and G.)  
 Keith, G. P., assignor of one-fourth to S. P. Bailey, R. P. True, and H. C. Condon, Rochester, Ind. Railway-crossing. No. 911,997; Feb. 9; Sp. p. 1990; Gaz. vol. 139; p. 348.  
 Keith, J., London, England. Rotary fan. No. 935,114; Sept. 28; Sp. p. 4319; Gaz. vol. 146; p. 770.  
 Keith, J., Hartford, and M. L. Bristol, West Hartford, Conn. Firearm. No. 930,865; Aug. 10; Sp. p. 2549; Gaz. vol. 145; p. 440.  
 Keith, J. and G., London, England. Gas-lamp. No. 917,976; Apr. 13; Sp. p. 1841; Gaz. vol. 141; p. 336.  
 Keith, M., St. Louis, Mo. Window-cleaner. No. 929,860; Aug. 3; Sp. p. 507; Gaz. vol. 145; p. 81.  
 Keith, R. R., Milwaukee, Wis. Cinch-packing. No. 931,128; Aug. 17; Sp. p. 3164; Gaz. vol. 145; p. 554.  
 Keithly, E. J. (See Brown and Keithly.)  
 Keitsch, C. H., Buffalo, N. Y. Flower-pot holder. No. 942,177; Dec. 7; Sp. p. 328; Gaz. vol. 149; p. 50.  
 Keizer, L. M. (See Coffee, R. W., assignor.)  
 Keizur, M. L., Baker City, assignor to Standard Fender Company, Portland, Oreg. Car-fender. No. 939,915; Nov. 9; Sp. p. 3222; Gaz. vol. 148; p. 531.  
 Kellam, L. H., Sandwich, Ill. Corn-slicing machine. No. 916,168; Mar. 23; Sp. p. 5120; Gaz. vol. 140; p. 906.  
 Kellar, G. E., assignor to Kellar-Thomason Manufacturing Company, Covina, Cal. Stop for water-gates. No. 913,147; Feb. 23; Sp. p. 4383; Gaz. vol. 139; p. 792.  
 Kellar, N. H., Alta, Ill. Three-horse hitch-equalizer. No. 933,310; Sept. 7; Sp. p. 626; Gaz. vol. 146; p. 97.  
 Kellar-Thomason Manufacturing Company. (See Kellar, G. E., assignor.)  
 Kellemen, H. F., Utica, assignor to Utica Drop Forge & Tool Company, Yorkville, N. Y. Pliers. No. 942,504; Dec. 7; Sp. p. 1004; Gaz. vol. 149; p. 161.  
 Keller, A., assignor to Mermod Frères, Ste. Croix, Switzerland. Talking-machine. No. 925,346; June 15; Sp. p. 4734; Gaz. vol. 143; p. 802.

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- Keller, A. H., Munich, Germany. Couch. No. 938,244; Oct. 26; Sp. p. 5539; Gaz. vol. 147; p. 946.
- Keller, A. K., assignor to Sterling Electric Company, La Fayette, Ind. Induction-coil. No. 927,413; July 6; Sp. p. 1421; Gaz. vol. 144; p. 236.
- Keller, A. R., Chicago, Ill. Mashing-machine. No. 922,486; May 25; Sp. p. 4912; Gaz. vol. 142; p. 875.
- Keller, A. R., Chicago, Ill. Mashing-machine. No. 927,976; July 13; Sp. p. 2655; Gaz. vol. 144; p. 452.
- Keller, A. T., assignor to one-half to Mesta Machine Company, Pittsburg, Pa. Valve-gear for engines. No. 917,452; Apr. 6; Sp. p. 980; Gaz. vol. 141; p. 171.
- Keller, C. (See Yeakle, G. P., assignor.)
- Keller, C. A., Paris, France. Electric furnace. No. 941,419; Nov. 30; Sp. p. 6578; Gaz. vol. 148; p. 1115.
- Keller, C. A., and B. G. Jamieson, Chicago, Ill. Composition of matter for and process of making insulating material. No. 915,774; Mar. 23; Sp. p. 4394; Gaz. vol. 140; p. 780.
- Keller, D. A. (See Brady, J. H., assignor.)
- Keller, D. A., Toledo, Ohio. Apparatus for pulling oil-wells. No. 930,480; Aug. 10; Sp. p. 1720; Gaz. vol. 145; p. 311.
- Keller, E. E., Pittsburg, Pa. Speed-changing mechanism. No. 942,910; Dec. 14; Sp. p. 1872; Gaz. vol. 149; p. 329.
- Keller, E. E., Pittsburg, Pa. Speed-changing mechanism. No. 942,911; Dec. 14; Sp. p. 1872; Gaz. vol. 149; p. 329.
- Keller, E. E., Pittsburg, Pa. Speed-changing mechanism. No. 942,912; Dec. 14; Sp. p. 1878; Gaz. vol. 149; p. 330.
- Keller, E. E., Pittsburg, Pa. Power-transmission mechanism. No. 942,913; Dec. 14; Sp. p. 1883; Gaz. vol. 149; p. 330.
- Keller, E. E., Pittsburg, Pa. Speed-changing mechanism. No. 942,914; Dec. 14; Sp. p. 1887; Gaz. vol. 149; p. 330.
- Keller, G., Syracuse, N. Y. Hand lifting device. No. 909,909; Jan. 19; Sp. p. 2982; Gaz. vol. 138; p. 553.
- Keller, G., New York, N. Y. Tension device for warp-beams. No. 941,201; Nov. 23; Sp. p. 6093; Gaz. vol. 148; p. 1022.
- Keller, G., New York, N. Y. Motor. No. 944,441; Dec. 28; Sp. p. 5168; Gaz. vol. 149; p. 907.
- Keller, H., Berlin, Germany, assignor to General Electric Company. Air pump or condenser. No. 922,595; May 25; Sp. p. 5144; Gaz. vol. 142; p. 912.
- Keller, H., Berlin, Germany, assignor to General Electric Company. Forming U-shaped turbine-buckets. No. 930,383; Aug. 10; Sp. p. 1540; Gaz. vol. 145; p. 279.
- Keller, J., Canton, Ohio. View-changing device for magic lanterns. No. 914,728; Mar. 9; Sp. p. 2262; Gaz. vol. 140; p. 380.
- Keller, J., Canton, Ohio. Kinetoscope. No. 914,729; Mar. 9; Sp. p. 2265; Gaz. vol. 140; p. 380.
- Keller, J. A., West Allis, Wis. Automatic lamp-filling receptacle. No. 932,026; Aug. 24; Sp. p. 5112; Gaz. vol. 145; p. 874.
- Keller, J. C., Newberg, Oreg. Shore-protector. No. 909,423; Jan. 12; Sp. p. 2006; Gaz. vol. 138; p. 357.
- Keller, J. E., Jr., Litchfield, Conn. Inflation-valve. No. 923,359; June 1; Sp. p. 574; Gaz. vol. 143; p. 82.
- Keller, J. M., Youngstown, Ohio. Hot-air furnace. No. 928,259; July 20; Sp. p. 3253; Gaz. vol. 144; p. 577.
- Keller, J. R., Pittsburg, Pa. Tie-plate. No. 922,150; May 18; Sp. p. 4222; Gaz. vol. 142; p. 738.
- Keller, J. R., assignor to Victor Safe & Lock Company, Cincinnati, Ohio. Interior grinding device. No. 938,387; Oct. 26; Sp. p. 5865; Gaz. vol. 147; p. 995.
- Keller, J. R., assignor to one-half to T. S. Spivey, Cincinnati, Ohio. Heat-operated display device. No. 939,705; Nov. 9; Sp. p. 2776; Gaz. vol. 148; p. 458.
- Keller, M., Eureka, Utah. Steam-turbine. No. 941,322; Nov. 23; Sp. p. 6337; Gaz. vol. 148; p. 1060.
- Keller, M. B., Mannheim, Pa. Match-safe. No. 913,394; Feb. 23; Sp. p. 4883; Gaz. vol. 139; p. 875.
- Keller Manufacturing Company. (See Wiedemann and Templin, assignors.)
- Keller, N., Los Angeles, Cal. Seraper. No. 913,959; Mar. 2; Sp. p. 635; Gaz. vol. 140; p. 100.
- Keller, P. A., Waterloo, Iowa. Shoe-gage for planters. No. 929,447; July 27; Sp. p. 5684; Gaz. vol. 144; p. 998.
- Keller, P. M., San Bernardino, Cal. Hydrocarbon-burner. No. 909,190; Jan. 12; Sp. p. 1572; Gaz. vol. 138; p. 283.
- Keller, W., Reutlingen, Germany. Joining or connecting fabrics. No. 926,004; June 22; Sp. p. 6092; Gaz. vol. 143; p. 1054.
- Keller, W. G., Avon, N. Y. Shade and curtain bracket. No. 910,069; Jan. 19; Sp. p. 3293; Gaz. vol. 138; p. 607.
- Keller, W. H., Rockford, Wash. Mathematical geography-illustrator. No. 926,064; June 22; Sp. p. 6221; Gaz. vol. 143; p. 1074.
- Keller, W. H., Philadelphia, Pa., assignor to Caloris Manufacturing Co. Vessel for the conveyance or storage of liquids. No. 916,450; Mar. 30; Sp. p. 5668; Gaz. vol. 140; p. 1025.
- Keller, W. L., Kearney, Nebr. Cement block. No. 934,319; Sept. 14; Sp. p. 2726; Gaz. vol. 146; p. 453.
- Keller, W. L., Kearney, Nebr. Block-machine. No. 934,320; Sept. 14; Sp. p. 2727; Gaz. vol. 146; p. 453.
- Kellermann, L. (See Roskamp and Kellermann.)
- Kellett, T. N. (See Ritchie and Kellett.)
- Kellett, W. F., Chicago, Ill. Addressing-machine. No. 931,619; Aug. 17; Sp. p. 4182; Gaz. vol. 145; p. 717.
- Kelley, D., Warren, Pa. Gearing for grinding-machines. No. 930,384; Aug. 10; Sp. p. 1540; Gaz. vol. 145; p. 279.
- Kelley, E. L., Litchfield, Conn. Bedclothes-fastener. No. 914,287; Mar. 2; Sp. p. 1345; Gaz. vol. 140; p. 208.
- Kelley Electric Machine Company. (See Ahlers, W. H., assignor.)
- Kelley, G. F., Somerset, Ohio. Clock-repairing device. No. 924,470; June 8; Sp. p. 2955; Gaz. vol. 143; p. 484.
- Kelley, G. J., Attleboro, Mass. Filter. No. 915,185; Mar. 16; Sp. p. 3171; Gaz. vol. 140; p. 556.
- Kelley, J., Weymouth, Mass. Packing-box. No. 917,453; Apr. 6; Sp. p. 984; Gaz. vol. 141; p. 171.
- Kelley, J., Weymouth, Mass. Knockdown box. No. 937,443; Oct. 19; Sp. p. 3867; Gaz. vol. 147; p. 658.
- Kelley, J., Winsted, Conn. Collar-support. No. 920,342; May 4; Sp. p. 512; Gaz. vol. 142; p. 81.
- Kelley, J. T., assignor to one-fourth to J. Stulz, Washington, D. C. Sheave-block. No. 926,878; July 6; Sp. p. 361; Gaz. vol. 144; p. 58.
- Kelley, S. (See Armstead and Kelley.)
- Kelley, W. C., Hartford, Conn. Match-holder. No. 908,678; Jan. 5; Sp. p. 533; Gaz. vol. 138; p. 82.
- Kelley, W. F. (See Wood, Durkee, Kelley, and Millet.)
- Kelley, W. S., Brookline, Mass. Dynamo-electric machine. No. 931,620; Aug. 17; Sp. p. 4184; Gaz. vol. 145; p. 717.
- Kelley, W. V. D., Newark, N. J. Gas-burner. No. 912,576; Feb. 16; Sp. p. 3218; Gaz. vol. 139; p. 577.
- Kelley, W. V. D., Newark, N. J. Gas-burner. No. 937,002; Oct. 12; Sp. p. 2904; Gaz. vol. 147; p. 484.
- Kelley, W. V. D., Newark, N. J., assignor to Advertising Mirrorgraph Company, Brooklyn, N. Y. Thermostatic switching apparatus. No. 908,679; Jan. 5; Sp. p. 534; Gaz. vol. 138; p. 82.
- Kelner, G. A. H., assignor, by mesne assignments, to Bausch & Lomb Optical Company, Rochester, N. Y. Stereoscopic appliance. No. 933,844; Sept. 14; Sp. p. 1805; Gaz. vol. 146; p. 297.
- Kelner, G. A. H., assignor, by mesne assignments, to Bausch & Lomb Optical Company, Rochester, N. Y. Terrestrial telescope. No. 936,541; Oct. 12; Sp. p. 1995; Gaz. vol. 147; p. 328.
- Kelner, L., New York, N. Y. Two-pole snap-switch. No. 939,599; Nov. 9; Sp. p. 2560; Gaz. vol. 148; p. 420.
- Kelner, L., New York, N. Y., assignor to Metropolitan Switchboard Co. Two-pole snap-switch. No. 943,531; Dec. 21; Sp. p. 3866; Gaz. vol. 149; p. 673.
- Kellner, W., Langerfeld, near Barmen, Germany. Machine for coating pasteboard with paper and the like. No. 938,586; Nov. 2; Sp. p. 334; Gaz. vol. 148; p. 49.
- Kellogg, O. W., *et al.* (See Whonn, S. W., assignor.)
- Kellogg, A. A., Clinton, Mo. Mail-box. No. 910,688; Jan. 26; Sp. p. 4619; Gaz. vol. 138; p. 841.
- Kellogg, A. A., Clinton, Mo. Car-truck. No. 918,061; Apr. 13; Sp. p. 2242; Gaz. vol. 141; p. 403.
- Kellogg, G. A. (See Harbour and Kellogg.)
- Kellogg, J. H., Battle Creek, Mich. Baking-powder. No. 932,138; Aug. 24; Sp. p. 5345; Gaz. vol. 145; p. 911.
- Kellogg, J. W., Schenectady, N. Y., assignor to General Electric Company. Centrifugal fan or pump. No. 912,133; Feb. 9; Sp. p. 2263; Gaz. vol. 139; p. 392.
- Kellogg, M. E., Battle Creek, Mich. Apparel-cutting apparatus. No. 937,214; Oct. 19; Sp. p. 3359; Gaz. vol. 147; p. 583.
- Kellogg, M. G. (See Land, E., assignor.) (Reissue.)
- Kellogg, M. G. (See Webster, H. G., assignor.)
- Kellogg, M. J., Gary, Ind. Revolver-loader. No. 913,393; Feb. 23; Sp. p. 4882; Gaz. vol. 139; p. 874.
- Kellogg Switchboard and Supply Company. (See Campbell, G. M., assignor.)
- Kellogg Switchboard and Supply Company. (See Dean, W. W., assignor.)
- Kellogg Switchboard & Supply Company. (See Edwards, J. B., assignor.)
- Kellogg Switchboard & Supply Company. (See Goldrick, H. C., assignor.)
- Kellogg Switchboard and Supply Company. (See Hill, W. E., assignor.)
- Kellogg Switchboard & Supply Company. (See Miller, K. B., assignor.)
- Kellogg Switchboard & Supply Company. (See Reid, W., assignor.)
- Kellogg Switchboard and Supply Company. (See Simpson, C. A., assignor.)
- Kellogg Switchboard and Supply Company. (See Smith, C. H., assignor.)
- Kellogg Switchboard and Supply Company. (See Webster, H. G., assignor.)
- Kellogg Switchboard & Supply Company. (See Weiss, A. H., assignor.)
- Kellogg Switchboard and Supply Company. (See Winston, C. S., assignor.)
- Kellogg, W. P., Syracuse, N. Y. Garment-supporter. No. 914,050; Mar. 2; Sp. p. 853; Gaz. vol. 140; p. 132.



*Alphabetical list of patentees—Continued.*

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- Kelly, A. H., Salt Lake City, Utah. Bill-file. No. 926,257; June 29; Sp. p. 6649; Gaz. vol. 143; p. 1174.
- Kelly-Arnold Manufacturing Company. (See Kelly and Royer, assignors.)
- Kelly, B. F., Salt Lake City, Utah. Miner's candlestick. No. 910,390; Jan. 19; Sp. p. 4004; Gaz. vol. 138; p. 718.
- Kelly, B. F., Salt Lake City, Utah. Garment-stretcher. No. 910,391; Jan. 19; Sp. p. 4006; Gaz. vol. 138; p. 719.
- Kelly, C. G., Philadelphia, Pa. Metal-cased pipe-covering. No. 926,423; June 29; Sp. p. 6969; Gaz. vol. 143; p. 1227.
- Kelly, C. R., Louisville, Ky. Vise. No. 923,659; June 1; Sp. p. 1215; Gaz. vol. 143; p. 187.
- Kelly, D. J., Chicago, Ill. Ventilator. No. 908,576; Jan. 5; Sp. p. 298; Gaz. vol. 138; p. 50.
- Kelly, D. J., Chicago, Ill. Filler-strip. No. 919,592; Apr. 27; Sp. p. 5667; Gaz. vol. 141; p. 974.
- Kelly, E. A., and F. C. Feneley, Pontiac, Mich. Implement or device for rubbing fillers into the pores of wood or metal. No. 911,731; Feb. 9; Sp. p. 1407; Gaz. vol. 139; p. 262.
- Kelly, F., Evansville, Ind. Boltless rail-joint. No. 938,587; Nov. 2; Sp. p. 334; Gaz. vol. 148; p. 49.
- Kelly, F. D., Rich Valley, Minn. Rotary engine. No. 926,748; July 6; Sp. p. 89; Gaz. vol. 144; p. 14.
- Kelly, F. E., Kewanee, Ill. Obstetrical appliance. No. 930,768; Aug. 10; Sp. p. 2357; Gaz. vol. 145; p. 408.
- Kelly, G. E., and G. F. Royer, Wilkes-Barre, Pa. Train-pipe coupling. No. 909,910; Jan. 19; Sp. p. 2984; Gaz. vol. 138; p. 553.
- Kelly, G. E., and G. F. Royer, assignors to Kelly-Arnold Manufacturing Company, Wilkes-Barre, Pa. Pipe-coupling. No. 937,533; Oct. 19; Sp. p. 4060; Gaz. vol. 147; p. 690.
- Kelly, G. E., and G. F. Royer, assignors to Kelly-Arnold Manufacturing Co., Wilkes-Barre, Pa. Support for railway-car-brake connectors. No. 937,534; Oct. 19; Sp. p. 4061; Gaz. vol. 147; p. 690.
- Kelly, G. R., Crystal, Pa. Automatic vehicle-brake. No. 931,621; Aug. 17; Sp. p. 4186; Gaz. vol. 145; p. 718.
- Kelly, H. C., West Burlington, Iowa. Attachment for graphophones. No. 913,508; Feb. 23; Sp. p. 5109; Gaz. vol. 139; p. 912.
- Kelly, J., Providence, R. I. Humidifier. No. 929,092; July 27; Sp. p. 4939; Gaz. vol. 144; p. 880.
- Kelly, J., Chicago, Ill. Lubricator. No. 935,260; Sept. 28; Sp. p. 4592; Gaz. vol. 146; p. 817.
- Kelly, J. C., assignor of six-tenths to C. F. Smith, De Kalb, Ill. Refrigerator. No. 930,190; Aug. 3; Sp. p. 1189; Gaz. vol. 145; p. 194.
- Kelly, J. F., Trenton, N. J. Sink. No. 917,454; Apr. 6; Sp. p. 985; Gaz. vol. 141; p. 171.
- Kelly, J. F., Trenton, N. J. Fastening device for water-closets. No. 928,523; July 20; Sp. p. 3783; Gaz. vol. 144; p. 664.
- Kelly, J. F., assignor to Thomas Maddock's Sons Co., Trenton, N. J. Soil-pipe coupling for water-closets. No. 934,975; Sept. 21; Sp. p. 4018; Gaz. vol. 146; p. 698.
- Kelly, J. J., Crafton, Pa. Burner. No. 920,750; May 4; Sp. p. 1327; Gaz. vol. 142; p. 215.
- Kelly, J. J., Crafton, Pa. Wheel. No. 927,977; July 13; Sp. p. 2657; Gaz. vol. 144; p. 452.
- Kelly, J. J., Crafton, Pa. Heater. No. 928,665; July 20; Sp. p. 4088; Gaz. vol. 144; p. 712.
- Kelly, J. J., New York, N. Y. Car-fender. No. 942,566; Dec. 7; Sp. p. 1121; Gaz. vol. 149; p. 182.
- Kelly, J. J., and J. W., Crafton, Pa. Steam-trap. No. 913,509; Feb. 23; Sp. p. 5110; Gaz. vol. 139; p. 912.
- Kelly, J. J., New York, N. Y., and J. F. Treerdell, Jersey City, N. J. Photographic apparatus. No. 937,309; Oct. 19; Sp. p. 3552; Gaz. vol. 147; p. 614.
- Kelly, J. M., and F. L. Rankin, Greensburg, Ind. Pneumatic pad for harness. No. 910,689; Jan. 26; Sp. p. 4623; Gaz. vol. 138; p. 841.
- Kelly, J. W. (See Kelly, J. J. and J. W.)
- Kelly, J. W., Chicago, Ill. Closet construction. No. 933,373; Sept. 7; Sp. p. 772; Gaz. vol. 146; p. 120.
- Kelly, M., Buffalo, N. Y. Boiler. No. 920,153; May 4; Sp. p. 119; Gaz. vol. 142; p. 19.
- Kelly, M., Buffalo, N. Y. Furnace. No. 943,194; Dec. 14; Sp. p. 2500; Gaz. vol. 149; p. 424.
- Kelly, M., Dallas, Tex. Shocking apparatus. No. 924,079; June 8; Sp. p. 2118; Gaz. vol. 143; p. 354.
- Kelly, M., Bloomington, Ill. Knuckle-joint connection. No. 927,978; July 13; Sp. p. 2659; Gaz. vol. 144; p. 452.
- Kelly, M., assignor to F. S. Betz, Hammond Ind. Dental engine. No. 919,593; Apr. 27; Sp. p. 5668; Gaz. vol. 141; p. 974.
- Kelly, M. F., McKeesport, assignor to National Tube Company, Pittsburg, Pa. Pipe-coupling. No. 938,425; Oct. 26; Sp. p. 5944; Gaz. vol. 147; p. 1008.
- Kelly, R. W., assignor of one-half to G. E. Harpham, Los Angeles, Cal. Pressure-retaining valve. No. 942,331; Dec. 7; Sp. p. 639; Gaz. vol. 149; p. 102.
- Kelly-Springfield Road Roller Company. (See Aitken, A. W., assignor.)
- Kelly, T. D., Essex, England. Internal-combustion engine. No. 922,911; May 25; Sp. p. 5812; Gaz. vol. 142; p. 1014.
- Kelly, T. F., Galion, Ohio. Vault-closure. No. 914,424; Mar. 9; Sp. p. 1637; Gaz. vol. 140; p. 280.
- Kelly, T. J. (See Slaght and Kelly.)
- Kelly Tool Company. (See Muth, Kelly, and Heinkel, assignors.)
- Kelly, W. A., and C. W. Smith, Honolulu, Hawaii. Harrow. No. 920,581; May 4; Sp. p. 985; Gaz. vol. 142; p. 160.
- Kelly, W. D., Jefferson, Tex. Railroad-track brace. No. 910,132; Jan. 19; Sp. p. 3421; Gaz. vol. 138; p. 627.
- Kelly, W. E. (See Muth, Kelly, and Heinkel.)
- Kelly, W. F. C., London, England. Photographic-film-roll spool. No. 916,325; Mar. 23; Sp. p. 5398; Gaz. vol. 140; p. 958.
- Kelly, W. F. C., London, England. Photographic developer. No. 935,156; Sept. 28; Sp. p. 4388; Gaz. vol. 146; p. 783.
- Kelly, W. F. C., and J. A. Bentham, London, England. Self-developing photographic surface. No. 917,310; Apr. 6; Sp. p. 730; Gaz. vol. 141; p. 124.
- Kelly, W. F. C., and J. A. Bentham, London, England. Photographic developer. No. 935,115; Sept. 28; Sp. p. 4321; Gaz. vol. 146; p. 771.
- Kelly, W. H., and A. Tschinkel, New York, N. Y. Turbine. No. 909,191; Jan. 12; Sp. p. 1573; Gaz. vol. 138; p. 233.
- Kelly, W. J., and P. J. Germain, assignors of one-third to D. Ogilvie, Denver, Colo. Ironing-board. No. 920,343; May 4; Sp. p. 514; Gaz. vol. 142; p. 82.
- Kelly, W. M. (See Thomson and Kelly.)
- Kelman, J. N., Los Angeles, Cal. Automatic circuit-breaker. No. 938,324; Oct. 26; Sp. p. 5708; Gaz. vol. 147; p. 972.
- Kelonge, E. C., Aurora, Ill. Walled safe. No. 937,215; Oct. 19; Sp. p. 3361; Gaz. vol. 147; p. 583.
- Kelsea, J. N., Paterson, N. J. Spindle. No. 922,912; May 25; Sp. p. 5814; Gaz. vol. 142; p. 1014.
- Kelsey, F. E., Kingston, N. Y. Cigar-machine. No. 931,314; Aug. 17; Sp. p. 3594; Gaz. vol. 145; p. 619.
- Kelsey, J., trustee. (See Herbert and Ward, assignors.)
- Kelsey, G. F., New York, N. Y. Movable shade-roller. No. 922,151; May 18; Sp. p. 4224; Gaz. vol. 142; p. 738.
- Kelsey, L. A. (See Miller, G. O., assignor.)
- Kelso, J. (See McConway and Kelso.)
- Kelso, J., assignor to McConway & Torley Company, Pittsburg, Pa. Car-coupling. No. 913,213; Feb. 23; Sp. p. 4512; Gaz. vol. 139; p. 813.
- Keltonik, S., Johnstown, Pa. Heater. No. 927,151; July 6; Sp. p. 937; Gaz. vol. 144; p. 151.
- Keltz, E., Vernon, Tex. Cabinet. No. 916,326; Mar. 23; Sp. p. 5399; Gaz. vol. 140; p. 959.
- Kemble, D., Millersburg, Ohio. Steam-turbine. No. 927,657; July 13; Sp. p. 1989; Gaz. vol. 144; p. 347.
- Kemble, D., Lakewood, Ohio. Steam-turbine. No. 927,658; July 13; Sp. p. 1994; Gaz. vol. 144; p. 347.
- Kemiweld Can Company. (See Harbeck, J. R., assignor.)
- Kemmerle, J. W., Columbus, Ohio. Track-rail support. No. 931,206; Aug. 17; Sp. p. 3348; Gaz. vol. 145; p. 582.
- Kemp, C. M. (See Newton, F. A., assignor.)
- Kemp, E., New York, N. Y. Steam-kettle. No. 914,051; Mar. 2; Sp. p. 854; Gaz. vol. 140; p. 132.
- Kemp Hydro-Carbon Furnace Company. (See Kemp, W., assignor.)
- Kemp, J. S., Newark Valley, N. Y., assignor, by mesne assignments, to International Harvester Company. Fertilizer-distributor. No. 934,671; Sept. 21; Sp. p. 3414; Gaz. vol. 146; p. 596.
- Kemp, L. O., Crank, Ark. Automatic window opening and closing device. No. 918,163; Apr. 13; Sp. p. 2435; Gaz. vol. 141; p. 436.
- Kemp, W., Tucson, Ariz., assignor to Kemp Hydro-Carbon Furnace Company. Furnace for smelting ores. No. 936,781; Oct. 12; Sp. p. 2472; Gaz. vol. 147; p. 411.
- Kemper, F. G., et al. (See Thomas, C. S., assignor.)
- Kemper-Thomas Company. (See Henderson, E. L., assignor.)
- Kemper, V. A., Kansas City, Mo. Sash-fastener. No. 913,395; Feb. 23; Sp. p. 4885; Gaz. vol. 139; p. 875.
- Kempf, A. (See Uhri, J., assignor.)
- Kempf, C., assignor to himself and T. Swoboda, Milwaukee, Wis. Shipping-crate. No. 919,181; Apr. 20; Sp. p. 4582; Gaz. vol. 141; p. 800.
- Kempf, J. C. (See Watkins and Kempf.)
- Kempshall, E., London, England. Antiskidding tire. No. 917,612; Apr. 6; Sp. p. 1266; Gaz. vol. 141; p. 223.
- Kempshall, E., London, England. Non-skidding tire. No. 917,613; Apr. 6; Sp. p. 1267; Gaz. vol. 141; p. 223.
- Kempshall, E., London, England. Golf-ball. No. 922,773; May 25; Sp. p. 5510; Gaz. vol. 142; p. 969.
- Kempshall, E., assignor to Kempshall Tyre Company, of Europe, Limited, London, England. Tire for vehicle-wheels. No. 917,733; Apr. 6; Sp. p. 1503; Gaz. vol. 141; p. 263.
- Kempshall, E., assignor to Kempshall Tyre Company, of Europe, Limited, London, England. Tire. No. 917,734; Apr. 6; Sp. p. 1504; Gaz. vol. 141; p. 263.
- Kempshall, E., assignor to Kempshall Tyre Company, of Europe, Limited, London, England. Non-skid tire. No. 928,868; July 20; Sp. p. 4479; Gaz. vol. 144; p. 780.

*Alphabetical list of patentees—Continued.*

- Kempshall, I. B., Boston, Mass. Automobile-tire. No. 942,567; Dec. 7; Sp. p. 1124; Gaz. vol. 149; p. 182.  
 Kempshall, I. B., Boston, Mass. Automobile-tire. No. 943,025; Dec. 14; Sp. p. 2148; Gaz. vol. 149; p. 368.  
 Kempshall Manufacturing Company. (See Royce, C. W., assignor.)  
 Kempshall Tyre Company, of Europe. (See Kempshall, E., assignor.)  
 Kempter, F., Stuttgart, Germany. Apparatus for washing caoutchouc, gutta-percha, and similar substances. No. 935,849; Oct. 5; Sp. p. 529; Gaz. vol. 147; p. 77.  
 Kempter, F., Stuttgart, Germany. Apparatus for washing caoutchouc and similar substances. No. 936,635; Oct. 12; Sp. p. 2193; Gaz. vol. 147; p. 362.  
 Kempton, W. C., San Francisco, Cal. Heel. No. 937,535; Oct. 19; Sp. p. 4063; Gaz. vol. 147; p. 691.  
 Kempton, W. H., assignor to Johns-Pratt Company, Hartford, Conn. Trolley-hanger. No. 923,851; June 8; Sp. p. 1694; Gaz. vol. 143; p. 281.  
 Kempton, W. H., assignor to Johns-Pratt Company, Hartford, Conn. Trolley-wire hanger. No. 926,258; June 29; Sp. p. 6651; Gaz. vol. 143; p. 1174.  
 Kempton, W. H., assignor to Johns-Pratt Company, Hartford, Conn. Cable-clamp. No. 931,930; Aug. 24; Sp. p. 4903; Gaz. vol. 145; p. 842.  
 Kempton, W. H., assignor to Johns-Pratt Company, Hartford, Conn. Lamp-socket. No. 932,139; Aug. 24; Sp. p. 5347; Gaz. vol. 145; p. 911.  
 Kennan, A., Pittsburg, Pa. Ironing-board. No. 914,956; Mar. 9; Sp. p. 2701; Gaz. vol. 140; p. 454.  
 Kennan, J. J. W., assignor of three-fourths to T. W. Jenkins, Philadelphia, and one-fourth to R. Buffett, Colwyn, Pa., and H. A. Gray, Millville, N. J. Screw-driving machine. No. 944,561; Dec. 28; Sp. p. 5466; Gaz. vol. 149; p. 949.  
 Kendall, C. S., New York, N. Y. Tide and wave motor. No. 925,581; June 22; Sp. p. 5197; Gaz. vol. 143; p. 915.  
 Kendall, D., assignor to Alliance Machine Company, Alliance, Ohio. Crane mechanism for ladles. No. 909,606; Jan. 12; Sp. p. 2367; Gaz. vol. 138; p. 420.  
 Kendall, D., assignor to Alliance Machine Company, Alliance, Ohio. Crane mechanism. No. 909,804; Jan. 12; Sp. p. 2758; Gaz. vol. 138; p. 486.  
 Kendall, E. D., Elizabeth, N. J., assignor of one-half to E. N. Dickerson, Stovall, N. C., one-tenth to A. R. Ledoux, one-fifth to A. T. Scharps, and one-tenth to A. Heckscher, New York, N. Y. Smelting ores of iron. (Reissue.) No. 12,918; Feb. 9; Sp. p. 2577; Gaz. vol. 139; p. 445.  
 Kendall, F. W., Elmira Heights, assignor to Kendall Sanitary Cuspidor Company, Elmira, N. Y. Cuspidor. No. 923,661; June 1; Sp. p. 1218; Gaz. vol. 143; p. 187.  
 Kendall, F. W., Elmira Heights, N. Y., and W. J. Owen, Collingwood, Ohio, assignors to Kendall Sanitary Cuspidor Company, Elmira, N. Y. Cuspidor. No. 923,660; June 1; Sp. p. 1216; Gaz. vol. 143; p. 187.  
 Kendall, H. P., Walpole, assignor to H. M. Plimpton, Norwood, Mass. Controlling mechanism for machines acting on sheets or signatures. No. 912,965; Feb. 16; Sp. p. 4009; Gaz. vol. 139; p. 704.  
 Kendall Sanitary Cuspidor Company. (See Kendall, F. W., assignor.)  
 Kendall Sanitary Cuspidor Company. (See Kendall and Owen, assignors.)  
 Kendall, W. C., *et al.* (See Garner, W. R., assignor.)  
 Kendig, A. P. (See Goodner and Kendig.)  
 Kendig, R. B. (See Parish and Kendig.)  
 Kendig, W. J., Lancaster, Pa. Razor or blade stropping machine. No. 933,465; Sept. 7; Sp. p. 983; Gaz. vol. 146; p. 149.  
 Kendrick, A. C., Williamsburg, Kans. Type-writer attachment. No. 939,265; Nov. 9; Sp. p. 1769; Gaz. vol. 148; p. 307.  
 Kendrick & Davis. (See Bowers, G. W., assignor.)  
 Kendrick & Davis. (See Cunningham, F. R., assignor.)  
 Kendrick, G. I., and J. Carroll, Pittsfield, Ill. Swing-gate. No. 928,387; July 20; Sp. p. 3518; Gaz. vol. 144; p. 622.  
 Kendrick, G. I., and J. Carroll, Pittsfield, Ill. Gate-hinge structure. No. 939,706; Nov. 9; Sp. p. 2777; Gaz. vol. 148; p. 458.  
 Kendrick, J. W., Chicago, Ill. Folding stake for railway-cars. No. 911,998; Feb. 9; Sp. p. 1996; Gaz. vol. 139; p. 349.  
 Kendrick, J. W., Chicago, Ill. Apparatus for preparing railway-ties to be used with screw-spikes. No. 932,475; Aug. 31; Sp. p. 6020; Gaz. vol. 145; p. 1045.  
 Kendrick, J. W., Chicago, Ill. Tie-plate washer. No. 933,182; Sept. 7; Sp. p. 318; Gaz. vol. 146; p. 51.  
 Kendrick, S., assignor of one-fourth to E. G. Pfahl and one-fourth to A. Vogt, Rochester, N. Y. Loom attachment. No. 919,023; Apr. 20; Sp. p. 4290; Gaz. vol. 141; p. 750.  
 Kendrick, W. D., Globe, Ariz. Angle-cock. No. 943,554; Dec. 14; Sp. p. 3257; Gaz. vol. 149; p. 549.  
 Kener, E., Jr., Buffalo, N. Y. Tool-handle. No. 942,077; Dec. 7; Sp. p. 76; Gaz. vol. 149; p. 14.  
 Kenerson, W. H., Providence, R. I. Torsion-measuring apparatus. No. 924,242; June 8; Sp. p. 2514; Gaz. vol. 143; p. 409.  
 Kengeter, F. C., New York, N. Y. Sleigh-runner attachment for baby-carriages. No. 934,735; Sept. 21; Sp. p. 3541; Gaz. vol. 146; p. 617.  
 Kenly, G. T., assignor to Plumbing Specialty Company, Baltimore, Md. Faucet. No. 925,436; June 15; Sp. p. 4907; Gaz. vol. 143; p. 837.  
 Kenmonth, J. C. (See Lamb, D. C., assignor.)  
 Kennard, A. E. (See Preston and Kennard.)  
 Kennard, E. M., Baltimore, Md. Gas-heater for water-backs. No. 914,288; Mar. 2; Sp. p. 1347; Gaz. vol. 140; p. 209.  
 Kennedy, A. H. and C. H., Rockport, Ind. Water-meter. No. 912,383; Feb. 16; Sp. p. 2801; Gaz. vol. 139; p. 511.  
 Kennedy, A. J., Chicago, Ill. Skate. No. 922,774; May 25; Sp. p. 5511; Gaz. vol. 142; p. 969.  
 Kennedy, C. E., Brockton, assignor of one-half to J. C. Frederick, Boston, Mass. Tool-centering device. No. 932,476; Aug. 31; Sp. p. 6025; Gaz. vol. 145; p. 1045.  
 Kennedy, C. H. (See Kennedy, A. H. and C. H.)  
 Kennedy, C. L., South Braintree, assignor to Holtzer-Cabot Electric Company, Brookline, Mass. Centrifugal switch. No. 934,920; Sept. 21; Sp. p. 3907; Gaz. vol. 146; p. 678.  
 Kennedy, C. W., E. W. Carlson, and N. C. Jeffes, Schenectady, N. Y. Chest-expansion-measuring device. No. 940,256; Nov. 16; Sp. p. 3999; Gaz. vol. 148; p. 680.  
 Kennedy, D. A., Ashland, Wis. Sawing-machine. No. 927,248; July 6; Sp. p. 1130; Gaz. vol. 144; p. 184.  
 Kennedy, D. S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Linotype-machine. No. 919,024; Apr. 20; Sp. p. 4293; Gaz. vol. 141; p. 750.  
 Kennedy, F., assignor of one-third to A. Lawler, one-third to A. F. Yerger, and one-third to J. McClintock, Jr., Philadelphia, Pa. Means to prevent misuse of gas-meters. No. 932,140; Aug. 24; Sp. p. 5349; Gaz. vol. 145; p. 912.  
 Kennedy, F., and J. V. Davis, Bournemouth, England. Galvanic sole. No. 931,068; Aug. 17; Sp. p. 3051; Gaz. vol. 145; p. 534.  
 Kennedy, H. N., Chicago, Ill. Drill-chuck. No. 938,589; Nov. 2; Sp. p. 337; Gaz. vol. 148; p. 50.  
 Kennedy, H. S., assignor to Cluett, Peabody & Company, Troy, N. Y. Collar. No. 930,191; Aug. 3; Sp. p. 1191; Gaz. vol. 145; p. 194.  
 Kennedy, J., Pittsburg, Pa. Beaking-mill. No. 920,067; Apr. 27; Sp. p. 6647; Gaz. vol. 141; p. 1131.  
 Kennedy, J., Pittsburg, Pa. Dust-catcher. No. 933,566; Sept. 7; Sp. p. 1237; Gaz. vol. 146; p. 182.  
 Kennedy, J., New York, N. Y. Awning-socket. No. 926,196; June 23; Sp. p. 6526; Gaz. vol. 143; p. 1154.  
 Kennedy, J. A., Browning, Mont. Plate and hot-dish lifter. No. 913,015; Feb. 23; Sp. p. 4115; Gaz. vol. 139; p. 747.  
 Kennedy, J. A., Browning, Mont. Gun-sight. No. 937,244; Oct. 19; Sp. p. 3429; Gaz. vol. 147; p. 593.  
 Kennedy, J. A., Middletown, Ohio. Comb-protector. No. 932,027; Aug. 24; Sp. p. 5113; Gaz. vol. 145; p. 874.  
 Kennedy, J. E., New York, N. Y. Kiln. No. 911,658; Feb. 9; Sp. p. 1269; Gaz. vol. 139; p. 238.  
 Kennedy, J. M., Lewisburg, and I. W. Gleason, Gleason, Pa. Signal. No. 928,666; July 20; Sp. p. 4092; Gaz. vol. 144; p. 666.  
 Kennedy, J. M., Lewisburg, and I. W. Gleason, Gleason, Pa. Signal. No. 932,292; Aug. 24; Sp. p. 5648; Gaz. vol. 145; p. 963.  
 Kennedy, J. W., Lewis, Kans. Carrier for threshers-feeders. No. 938,871; Nov. 2; Sp. p. 917; Gaz. vol. 148; p. 144.  
 Kennedy, J. W., Chicago, Ill., assignor, by mesne assignments, to Kennedy Typewriter Company of Manhattan, New York, N. Y. Line-spacing mechanism for type-writing machines. No. 929,137; July 27; Sp. p. 5047; Gaz. vol. 144; p. 896.  
 Kennedy, L. F., Minneapolis, Minn. Cartridge-magazine pocket for self-loading rifles. No. 931,766; Aug. 24; Sp. p. 4544; Gaz. vol. 145; p. 789.  
 Kennedy, L. F., Minneapolis, Minn. Gun-stock. No. 939,707; Nov. 9; Sp. p. 2778; Gaz. vol. 148; p. 459.  
 Kennedy, L. L., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 924,243; June 8; Sp. p. 2517; Gaz. vol. 143; p. 409.  
 Kennedy, M., Peru, Ill. Gas-generator. No. 910,921; Jan. 26; Sp. p. 5077; Gaz. vol. 138; p. 915.  
 Kennedy, O. J., assignor of one-half to P. W. Sweeney, San Diego, Cal. Sprinkling system. No. 917,614; Apr. 6; Sp. p. 1268; Gaz. vol. 141; p. 224.  
 Kennedy, P., assignor to Consolidated Railway Electric Lighting and Equipment Company, New York, N. Y. Railway postal car. No. 924,165; June 8; Sp. p. 2333; Gaz. vol. 143; p. 383.  
 Kennedy, R., assignor to Lawrence & Kennedy, Glasgow, Scotland. Milking-machine. No. 933,466; Sept. 7; Sp. p. 984; Gaz. vol. 146; p. 149.  
 Kennedy, R. J., Burr Oak, Kans. Combination-tool. No. 930,385; Aug. 10; Sp. p. 1542; Gaz. vol. 145; p. 279.  
 Kennedy, T. C., Baltimore, Md. Plaster-board. No. 932,141; Aug. 24; Sp. p. 5350; Gaz. vol. 145; p. 912.  
 Kennedy, T. J. (See Herbert, F. W., assignor.)  
 Kennedy, T. L., assignor of one-third to A. F. Yerger and one-third to J. McClintock, Jr., Philadelphia, Pa. Gear-case. No. 932,784; Aug. 31; Sp. p. 6694; Gaz. vol. 145; p. 1149.



*Alphabetical list of patentees—Continued.*

- Kennedy Typewriter Company of Manhattan. (See Kennedy, J. W., assignor.)
- Kennedy, W. D. (See Ferree and Kennedy.)
- Kennedy, W. H., Joplin, Mo. Riveting-machine. No. 923,852; June 8; Sp. p. 1696; Gaz. vol. 143; p. 282.
- Kennel, A. G., assignor to Kennel Machine Company, St. Louis, Mo. Coin-controlled apparatus. No. 940,973; Nov. 23; Sp. p. 5584; Gaz. vol. 148; p. 945.
- Kennel, E. P. (See Salzman, C. A., assignor.)
- Kennel Machine Company. (See Kennel, A. G., assignor.)
- Kennell, W. S., Amethyst, Colo. Butter-mold. No. 923,853; June 8; Sp. p. 1698; Gaz. vol. 143; p. 282.
- Kennelly, J. T., Rawlins, Wyo. Pneumatic tire. No. 919,594; Apr. 27; Sp. p. 5669; Gaz. vol. 141; p. 975.
- Kennett, A. C. (See Armstrong, A. H., assignor.)
- Kennedy, A. E., North Plainfield, N. J. Valve. No. 923,274; June 1; Sp. p. 384; Gaz. vol. 143; p. 53.
- Xenney, E. F., Moores, Pa. Metallic tie. No. 943,782; Dec. 21; Sp. p. 3767; Gaz. vol. 149; p. 655.
- Kennedy, E. T., assignor to Henricks Novelty Company, Indianapolis, Ind. Electric generator. No. 940,392; Nov. 16; Sp. p. 4345; Gaz. vol. 148; p. 727.
- Kennedy, F., assignor of three-fourths to F. Fritz and one-fourth to P. A. Johnson, Portland, Oreg. Measuring-faucet for liquids. No. 910,475; Jan. 19; Sp. p. 4184; Gaz. vol. 138; p. 748.
- Kennedy, F. B., St. Paul, Minn., assignor to A. K. Wyand and O. St. Germain, Havre, Mont. Polychrome attachment for lanterns. No. 915,865; Mar. 23; Sp. p. 4551; Gaz. vol. 140; p. 808.
- Kennedy, R. M., Clinton, Okla. Double rake. No. 909,607; Jan. 12; Sp. p. 2363; Gaz. vol. 138; p. 420.
- Kennedy, W. F., Providence, R. I. Nut-lock. No. 932,395; Aug. 24; Sp. p. 5834; Gaz. vol. 145; p. 996.
- Kennedy, W. F., Providence, R. I. Nut. No. 932,396; Aug. 24; Sp. p. 5835; Gaz. vol. 145; p. 996.
- Kennedy, W. F., Providence, R. I. Anchor. No. 932,397; Aug. 24; Sp. p. 5836; Gaz. vol. 145; p. 996.
- Kennedy, W. F., Providence, R. I. Nut-lock. No. 932,398; Aug. 24; Sp. p. 5837; Gaz. vol. 145; p. 997.
- Kennicott Water-Softener Company. (See Bruce, W. M., assignor.)
- Kennon, C. W., Passaic, N. J. Cinder-guard for railway-car windows. No. 922,290; May 18; Sp. p. 4510; Gaz. vol. 142; p. 783.
- Kenny, C. H., et al. (See Bickle and McMillan, assignors.)
- Kenny, J. B., Geneva, N. Y. Basket. No. 920,480; May 4; Sp. p. 777; Gaz. vol. 142; p. 126.
- Kenny, P. T., New York, N. Y. Variable-speed driving mechanism. No. 936,326; Oct. 12; Sp. p. 1493; Gaz. vol. 147; p. 258.
- Kenny, P. T., New York, N. Y. Metal molding. No. 938,768; Nov. 2; Sp. p. 681; Gaz. vol. 148; p. 109.
- Kenny, P. T., New York, N. Y. Theater-chair-signal system. No. 943,940; Dec. 21; Sp. p. 4104; Gaz. vol. 149; p. 711.
- Kent, A., New York, N. Y. Sheet-feeding machine. No. 920,154; May 4; Sp. p. 121; Gaz. vol. 142; p. 19.
- Kent, A. A., Philadelphia, Pa. Measuring-gage. No. 922,152; May 18; Sp. p. 4226; Gaz. vol. 142; p. 738.
- Kent, E. R., Chicago, Ill. Railway frog and crossing. No. 919,728; Apr. 27; Sp. p. 5936; Gaz. vol. 141; p. 1019.
- Kent, E. W., Seattle, Wash. Cooking utensil. No. 924,471; June 8; Sp. p. 2958; Gaz. vol. 143; p. 484.
- Kent, F. J., Washington, D. C., assignor to M. A. Fanning, Cleveland, Ohio. Certificate of deposit. No. 910,070; Jan. 19; Sp. p. 3294; Gaz. vol. 138; p. 608.
- Kent, F. T., Brooklyn, assignor to Empire Duplex Gin Company, New York, N. Y. Cotton-gin. No. 923,533; June 1; Sp. p. 931; Gaz. vol. 143; p. 144.
- Kent, F. T., Brooklyn, assignor to Empire Duplex Gin Company, New York, N. Y. Cotton-gin. No. 924,793; June 15; Sp. p. 3656; Gaz. vol. 143; p. 626.
- Kent, H. A., Bounds Green, and H. G. Lacell, Finchley, assignors to Silica Syndicate Limited, London, England. Mercury or other vapor electric lamp. No. 923,124; May 25; Sp. p. 6257; Gaz. vol. 142; p. 1082.
- Kent, H. A., Bounds Green, and H. G. Lacell, Finchley, assignors to Silica Syndicate Limited, London, England. Mercury and other vapor electric lamp. No. 939,708; Nov. 9; Sp. p. 2780; Gaz. vol. 148; p. 459.
- Kent, J. C., trustee. (See Ekströmer, E. C., assignor.)
- Kent, J. C., trustee. (See Ekströmer, E. C. and M., assignors.)
- Kent Machine Company. (See Post, A. L., assignor.)
- Kent, P. E., New York, N. Y. Swage or reshaper for deformed or battered teeth of linotype-matrices. No. 923,275; June 1; Sp. p. 385; Gaz. vol. 143; p. 54.
- Kent, R. S., Brooklyn, N. Y. Apparatus for drying finely-divided material. No. 914,052; Mar. 2; Sp. p. 856; Gaz. vol. 140; p. 133.
- Kent, W. G. (See Williams, W. G., assignor.)
- Kentzinger, C. M., St. Louis, Mo. Shock-absorber for vehicles. No. 913,396; Feb. 23; Sp. p. 4885; Gaz. vol. 139; p. 875.
- Kenworthy, J. A., Oakland, Cal. Gas-generator. No. 913,733; Mar. 2; Sp. p. 114; Gaz. vol. 140; p. 21.
- Kenworthy, J. A., Oakland, Cal. Carburetor. No. 932,871; Aug. 31; Sp. p. 5851; Gaz. vol. 145; p. 1176.
- Kenworthy, T. (See Shuffelbottom and Kenworthy.)
- Kenyon, B. C., Mishawaka, Ind., assignor to William Shakespeare Jr. Company, Kalamazoo, Mich. Fish bait or lure. No. 923,854; June 8; Sp. p. 1699; Gaz. vol. 143; p. 283.
- Kenyon, C. L., Tama, Iowa. Pump-rod coupling. No. 943,080; Dec. 14; Sp. p. 2283; Gaz. vol. 149; p. 387.
- Kenyon, D. M., assignor of one-half to J. B. Etherington, Bradford, Pa. Nut-lock. No. 914,053; Mar. 2; Sp. p. 860; Gaz. vol. 140; p. 133.
- Kenyon, J. A., et al. (See Gray, H., assignor.)
- Keough, D. I., assignor of two-thirds to J. E. and W. F. Keough, New Martinsville, W. Va. Sawing-machine. No. 925,194; June 15; Sp. p. 4463; Gaz. vol. 143; p. 762.
- Keough, G. E., et al. (See Keough, D. I., assignor.)
- Keough, W. F., et al. (See Keough, D. I., assignor.)
- Kephart, T., Sinnamahoning, Pa. Sash holder and lock. No. 939,709; Nov. 9; Sp. p. 2781; Gaz. vol. 148; p. 459.
- Kepke, G. J., assignor of one-half to P. C. Dowell, Bellefontaine, Ohio. Rug-display rack. No. 920,962; May 11; Sp. p. 1772; Gaz. vol. 142; p. 315.
- Kepner, B. F., Pecatonica, Ill. Grain-loading machine. No. 937,814; Oct. 26; Sp. p. 4617; Gaz. vol. 147; p. 800.
- Kepner, R., Pottstown, Pa. Tag. No. 916,716; Mar. 30; Sp. p. 6196; Gaz. vol. 140; p. 1110.
- Kepple, J. Jr., Greensburg, Pa. Ironing-board. No. 912,853; Feb. 16; Sp. p. 3804; Gaz. vol. 139; p. 670.
- Keppler, A. (See Kahl and Keppler.)
- Kepplinger, G. J., Dwight, Ill. Machine for dressing floors. No. 927,548; July 13; Sp. p. 1731; Gaz. vol. 144; p. 309.
- Kerins, T. H., South Sharon, Pa. Tobacco-pipe. No. 932,293; Aug. 24; Sp. p. 5649; Gaz. vol. 145; p. 963.
- Kerley, H. E., Marietta, Ga. Chain-clasp. No. 921,846; May 18; Sp. p. 3631; Gaz. vol. 142; p. 640.
- Kerlin, W. F., Rockfield, and E. W. Bowen, Delphi, Ind. Reinforcing device. No. 926,005; June 22; Sp. p. 6093; Gaz. vol. 143; p. 1054.
- Kerlin, W. F., Rockfield, and E. W. Bowen, Delphi, Ind. Reinforcing device. No. 926,006; June 22; Sp. p. 6095; Gaz. vol. 143; p. 1054.
- Kerlin, W. F., Rockfield, and E. W. Bowen, Delphi, Ind. Molding-machine. No. 941,930; Nov. 30; Sp. p. 7647; Gaz. vol. 148; p. 1288.
- Kern, A. P., assignor to Cincinnati Chuck Company, Cincinnati, Ohio. Chuck. No. 930,075; Aug. 3; Sp. p. 952; Gaz. vol. 145; p. 154.
- Kern Auto Street Sweeper Corporation. (See Kern, B., Jr., assignor.)
- Kern, B., Jr., Toledo, Ohio, assignor to Kern Auto Street Sweeper Corporation, New York, N. Y. Street-sweeping machine. No. 943,881; Dec. 21; Sp. p. 3967; Gaz. vol. 149; p. 689.
- Kern, E. F., Knoxville, Tenn., assignor of one-half to P. S. Brown, New York, N. Y. Electrolyte and electrodepositing nickel. No. 942,729; Dec. 7; Sp. p. 1444; Gaz. vol. 149; p. 236.
- Kern, E. R., Faribault, Minn. Nut-lock. No. 929,673; Aug. 3; Sp. p. 59; Gaz. vol. 145; p. 12.
- Kern, M., assignor of one-half to J. H. Joaquin, St. Louis, Mo. Bowling-ball shock-absorber. No. 924,472; June 8; Sp. p. 2959; Gaz. vol. 143; p. 484.
- Kern, W. S., Wilkes-Barre, Pa. Mixing and straining machine. No. 909,306; Jan. 12; Sp. p. 1783; Gaz. vol. 138; p. 320.
- Kerndt, A. B., assignor of one-half to F. C. D. Treichel, Milwaukee, Wis. Hand-truck. No. 939,600; Nov. 9; Sp. p. 2563; Gaz. vol. 148; p. 421.
- Kernohan, R. B., Pittsburg, Pa. Gas-producer. No. 936,636; Oct. 12; Sp. p. 2195; Gaz. vol. 147; p. 363.
- Kernohan, R. B., Pittsburg, Pa. Gas-producer. No. 940,696; Nov. 23; Sp. p. 4997; Gaz. vol. 148; p. 853.
- Kerns, W. E. (See Prescott and Kerns.)
- Kerns, W. E., Fox Chase, assignor to Barber Asphalt Paving Company, Philadelphia, Pa. Removing asphalt pavement. No. 910,922; Jan. 26; Sp. p. 5079; Gaz. vol. 138; p. 915.
- Kerr, A. H., Portland, Oreg. Composition for sealing preserving-jars and other purposes. No. 930,481; Aug. 10; Sp. p. 1721; Gaz. vol. 145; p. 311.
- Kerr, A. H., Portland, Oreg. Composition for sealing preserving-jars. No. 930,482; Aug. 10; Sp. p. 1723; Gaz. vol. 145; p. 311.
- Kerr, C. V., Rutherford, N. J. Elastic-fluid engine. No. 940,162; Nov. 16; Sp. p. 3794; Gaz. vol. 148; p. 646.
- Kerr, C. V., Wellsville, N. Y. Centrifugal pump. No. 940,257; Nov. 16; Sp. p. 4001; Gaz. vol. 148; p. 681.
- Kerr, E., and J. Smith, Pittsburg, Pa. Mold for hollow articles. No. 918,328; Apr. 13; Sp. p. 2772; Gaz. vol. 141; p. 491.
- Kerr, E. N., Rock Island, Ill. Photographic-paper-printing machine. No. 920,582; May 4; Sp. p. 986; Gaz. vol. 142; p. 161.
- Kerr, F. H., Chicago, Ill. Farm and garden tilling machine. No. 926,498; June 29; Sp. p. 7091; Gaz. vol. 143; p. 1251.

*Alphabetical list of patentees—Continued.*

- Kerr, F. W., *et al.* (See Frederick, L., assignor.)  
 Kerr, G., Astoria, Oreg. Lamp-burner. No. 929,225; July 27; Sp. p. 5213; Gaz. vol. 144; p. 925.  
 Kerr, H. E., Springfield, Pa. Pall. No. 931,315; Aug. 17; Sp. p. 3596; Gaz. vol. 145; p. 620.  
 Kerr, J. D., Murfreesboro, Tenn. Hand-car. No. 941,420; Nov. 30; Sp. p. 6579; Gaz. vol. 148; p. 1116.  
 Kerr, J. P., Versailles, Ill. Excavator. No. 935,992; Oct. 5; Sp. p. 836; Gaz. vol. 147; p. 125.  
 Kerr, J. R., Brantford, Ontario, Canada. Gate opening and closing device. No. 920,344; May 4; Sp. p. 515; Gaz. vol. 142; p. 82.  
 Kerr, J. S., Davis, W. Va. Shoe-calk. No. 925,638; June 22; Sp. p. 5313; Gaz. vol. 143; p. 934.  
 Kerr, R. V., *et al.* (See Frederick, L., assignor.)  
 Kerr, S. W., (See Kilby and Kerr.)  
 Kerr, W. J., Smethport, Pa. Magnet toy. No. 920,895; May 4; Sp. p. 1642; Gaz. vol. 142; p. 262.  
 Kerrick, B. H., *et al.* (See Kerrick, L. C., assignor.)  
 Kerrick, L. C., assignor to C. H. Wintersmith and B. H. Kerrick, Louisville, Ky. Pocket-receptacle. No. 936,327; Oct. 12; Sp. p. 1495; Gaz. vol. 147; p. 259.  
 Kerrigan, M., Brownington, Mo. Clothes-line reel and stretcher. No. 938,388; Oct. 26; Sp. p. 5867; Gaz. vol. 147; p. 995.  
 Kerry, A., Seattle, Wash. Horseshoe. No. 927,731; July 13; Sp. p. 2136; Gaz. vol. 144; p. 370.  
 Kersey, A. P., Greensboro, N. C. Mail-box support. No. 942,859; Dec. 7; Sp. p. 1722; Gaz. vol. 149; p. 279.  
 Kersey, J. M., Parsons, Kans. Fishing-tackle box. No. 920,751; May 4; Sp. p. 1328; Gaz. vol. 142; p. 215.  
 Kershaw, F. N., Racine, Wis. Apparel-hanger. No. 926,337; June 29; Sp. p. 6814; Gaz. vol. 143; p. 1199.  
 Kershaw, J., and J. T. Cole, Menston, England. Apparatus for dyeing yarn. No. 934,543; Sept. 21; Sp. p. 3159; Gaz. vol. 146; p. 551.  
 Kershaw, P. B. W., assignor to O. D. Lucas, London, England. Carbureter and like device for mixing gas or vapor and air. No. 930,483; Aug. 10; Sp. p. 1724; Gaz. vol. 145; p. 311.  
 Kershner, B. V., St. Louis, Mo., assignor to Union Special Machine Company, Chicago, Ill. Piecing stays. No. 909,608; Jan. 12; Sp. p. 2370; Gaz. vol. 138; p. 421.  
 Kershner, C. S., Westphalia, Kans. Motor for magnetos. No. 943,420; Dec. 14; Sp. p. 2968; Gaz. vol. 149; p. 501.  
 Kerst, E. B., Philadelphia, Pa. Section-liner. No. 938,769; Nov. 2; Sp. p. 683; Gaz. vol. 148; p. 109.  
 Kertell, C. P., Oakland, Cal. Combined rein-holder and holdback. No. 935,520; Sept. 28; Sp. p. 5127; Gaz. vol. 146; p. 901.  
 Keske, E. H., Hoboken, N. J. Vaginal syringe. No. 939,266; Nov. 9; Sp. p. 1771; Gaz. vol. 148; p. 307.  
 Kesselman, L. P., (See Kesselman, W. H. and L. P.)  
 Kesselman, W. H. and L. P., Parkersburg, W. Va. Well-packer. No. 909,609; Jan. 12; Sp. p. 2372; Gaz. vol. 138; p. 421.  
 Kessler, J. J., St. Louis, Mo. Varnish-gum and producing same. No. 922,596; May 25; Sp. p. 5146; Gaz. vol. 142; p. 912.  
 Kessler, L., *et al.* (See Zwirmer, M., assignor.)  
 Kessler, N., Ragusa, Austria-Hungary. Electric alarm-bell. No. 909,192; Jan. 12; Sp. p. 1574; Gaz. vol. 138; p. 283.  
 Kessler, R. Y., Morrisonville, Ill. Tile-ditching machine. No. 919,595; Apr. 27; Sp. p. 5671; Gaz. vol. 141; p. 975.  
 Kessler, W. B., Augusta, Ga., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 920,155; May 4; Sp. p. 124; Gaz. vol. 142; p. 19.  
 Kestner Evaporator Company. (See Parker, J., assignor.)  
 Kestner, P., Lille, France. Intimately mixing liquid and gaseous fluids. No. 923,855; June 8; Sp. p. 1702; Gaz. vol. 143; p. 283.  
 Kestner, P., Lille, France. Machine for atomizing liquids. No. 923,856; June 8; Sp. p. 1705; Gaz. vol. 143; p. 283.  
 Ketchum & Company. (See Easdale, G., assignor.)  
 Ketchum, S., Hoboken, N. J., assignor to M. H. Treadwell Company. Dumping-car. No. 909,307; Jan. 12; Sp. p. 1790; Gaz. vol. 138; p. 321.  
 Ketchum, W. N., Santa Monica, Cal. Glove-measuring device. No. 933,992; Sept. 14; Sp. p. 2091; Gaz. vol. 146; p. 345.  
 Kettering, C. F., assignor, by mesne assignments, to National Cash Register Company, Dayton, Ohio. Driving mechanism for registering-machines. No. 910,690; Jan. 26; Sp. p. 4624; Gaz. vol. 138; p. 841.  
 Kettering, C. F., assignor to National Cash Register Company, Dayton, Ohio. Mechanical clutch. No. 923,857; June 8; Sp. p. 1707; Gaz. vol. 143; p. 283.  
 Kettering, C. F., assignor to National Cash Register Company, Dayton, Ohio. Driving mechanism for cash-registers. No. 924,616; June 8; Sp. p. 3272; Gaz. vol. 143; p. 533.  
 Kettinger, C. F., assignor to National Cash Register Company, Dayton, Ohio. Store-service credit-system apparatus. No. 939,267; Nov. 9; Sp. p. 1772; Gaz. vol. 148; p. 308.  
 Kettler, H., (See Auth and Kettler.)  
 Keuffel & Esser Company. (See Ellicott and Ferber, assignors.)  
 Keuffel & Esser Company. (See Ferber, P., assignor.)  
 Keuffel & Esser Company. (See Kollmorgen, F. L. G., assignor.)  
 Key, B. W., (See Percival, H. E., assignor.)  
 Key, J. A., (See McIlvain and Key.)  
 Key, J. E., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Lathe. No. 929,226; July 27; Sp. p. 5215; Gaz. vol. 144; p. 925.  
 Key, J. E., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Milling-machine. No. 929,599; July 27; Sp. p. 5966; Gaz. vol. 144; p. 1048.  
 Key, J. E., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Lathe. No. 944,876; Dec. 28; Sp. p. 6140; Gaz. vol. 149; p. 1056.  
 Keyes, C. H., assignor of one-half to E. E. Bradford, Carmel, Me. Curtain-holder. No. 912,854; Feb. 16; Sp. p. 3805; Gaz. vol. 139; p. 670.  
 Keyes, D. W., Henry, S. D. Drive-gearing for traction-engines. No. 928,458; July 20; Sp. p. 3662; Gaz. vol. 144; p. 645.  
 Keyes Fibre Company. (See Keyes, M. L., assignor.)  
 Keyes Fibre Company. (See Keyes, M. L., assignor.) (Reissue.)  
 Keyes, H. E., assignor to J. A. Doyle, Homestead, Pa. Pipe-coupling. No. 920,963; May 11; Sp. p. 1775; Gaz. vol. 142; p. 313.  
 Keyes, H. E., Homestead, Pa., assignor to Triumph Automobile Tire Company, Wheeling, W. Va. Wheel. No. 921,613; May 11; Sp. p. 3120; Gaz. vol. 142; p. 533.  
 Keyes, J. A., New York, N. Y. Soap-press. No. 910,543; Jan. 26; Sp. p. 4321; Gaz. vol. 138; p. 793.  
 Keyes, J. A., New York, N. Y. Press. No. 910,544; Jan. 26; Sp. p. 4323; Gaz. vol. 138; p. 794.  
 Keyes, J. F., (See Baker, L. W., assignor.)  
 Keyes, M. L., Fairfield, assignor to Keyes Fibre Company, Shawmut, Me. Apparatus for making pulp articles. No. 908,577; Jan. 5; Sp. p. 301; Gaz. vol. 138; p. 51.  
 Keyes, M. L., Fairfield, assignor to Keyes Fibre Company, Shawmut, Me. Apparatus for making pulp articles. (Reissue.) No. 12,911; Jan. 12; Sp. p. 2855; Gaz. vol. 138; p. 503.  
 Keyes, M. L., Fairfield, assignor to Keyes Fibre Company, Shawmut, Me. Packaging-machine. No. 921,256; May 11; Sp. p. 2373; Gaz. vol. 142; p. 416.  
 Keyes, N. B., assignor to H. C. Hart, Unionville, Conn. Glass-cutter. No. 915,447; Mar. 16; Sp. p. 3686; Gaz. vol. 140; p. 642.  
 Keyes, W. W., Alexandria, Ind. Glass-forming machinery. No. 935,663; Oct. 5; Sp. p. 85; Gaz. vol. 147; p. 14.  
 Keymer, H. J. C., Great Yarmouth, England. Power-hammer. No. 928,987; July 6; Sp. p. 575; Gaz. vol. 144; p. 95.  
 Keys, W. A., New York, N. Y. Necktie. No. 927,979; July 13; Sp. p. 2660; Gaz. vol. 144; p. 452.  
 Keys, W. A., New York, N. Y., assignor to Slip Scarf Company. Neckwear. No. 923,534; June 1; Sp. p. 933; Gaz. vol. 143; p. 144.  
 Keys, W. J., *et al.* (See Wertz, C. V., assignor.)  
 Keyser, B., and C. F. Ingold, Hartville, Ohio. Hand-truck. No. 938,872; Nov. 2; Sp. p. 918; Gaz. vol. 148; p. 145.  
 Keyser, G., assignor to J. W. Hepworth, Philadelphia, Pa. Machine for sewing knitted fabrics. No. 925,704; June 22; Sp. p. 5453; Gaz. vol. 143; p. 954.  
 Keyser, M. E., (See Dorsey and Keyser.)  
 Keyser, W. S., Everett, Wash. Heating-drum. No. 927,356; July 6; Sp. p. 1310; Gaz. vol. 144; p. 217.  
 Keyser, J. B., (See Russell, D. B., assignor.)  
 Keystone Brake-Shoe Company. (See Lamb, V. B., assignor.)  
 Keystone Driller Company. (See Downie, R. M., assignor.)  
 Keystone Furnace Construction Company. (See Carney and McEntee, assignors.)  
 Keystone Furnace Construction Company. (See Knox, L. L., assignor.)  
 Keystone Furnace Construction Company. (See Knox and Murray, assignors.)  
 Keystone Steel & Wire Company. (See Sommer, J. W., F. W., and W. H., assignors.)  
 Keystone Type Foundry. (See Orchard, A. S., assignor.)  
 Keystone Wire Matting Co. (See McPherson, T. C., assignor.)  
 Keyt, M. H., Chicago, Ill. Removing tarnish from metals. No. 937,154; Oct. 19; Sp. p. 3238; Gaz. vol. 147; p. 565.  
 Kezer, A. R., assignor of one-half to G. W. De Hay, Los Angeles, Cal. Apparatus for cleaning clothes. No. 927,549; July 13; Sp. p. 1732; Gaz. vol. 144; p. 309.  
 Keron, J., Scarboro, W. Va. Chock for railway-cars. No. 933,760; Sept. 14; Sp. p. 1638; Gaz. vol. 146; p. 270.  
 Kiam, B., New Orleans, La. Safety-razor. No. 914,957; Mar. 9; Sp. p. 2702; Gaz. vol. 140; p. 454.



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- Kharas, T., Omaha, Nebr. Advertising device. No. 935,993; Oct. 5; Sp. p. 841; Gaz. vol. 147; p. 125.
- Kibbe, W. J., Canandaigua, N. Y. Telephone-call-registering system. No. 943,081; Dec. 14; Sp. p. 2284; Gaz. vol. 149; p. 387.
- Kibbe, W. L., Johnson, Kans. Sickie-bar. No. 922,291; May 18; Sp. p. 4512; Gaz. vol. 142; p. 783.
- Kiblinger, R. P., Mineral, Va. Railway-switch. No. 935,157; Sept. 28; Sp. p. 4389; Gaz. vol. 146; p. 783.
- Kiburz, J., assignor to John Kiburz Pattern Company, St. Louis, Mo. Molding-machine. No. 933,761; Sept. 14; Sp. p. 1640; Gaz. vol. 146; p. 270.
- Kidd, A. J. (See Holland and Kidd.)
- Kidd, G. E., assignor to Hay Ladder Lock Company, Bloomfield, Ind. Brake-actuating mechanism for vehicles. No. 925,195; June 15; Sp. p. 4466; Gaz. vol. 143; p. 762.
- Kidd, T. F. (See Bishop and Kidd.)
- Kidder Press Company. (See Dean, E. W., assignor.)
- Kidder, W. P., Boston, Mass. Shock-absorbing mechanism for vehicle-springs. No. 911,402; Feb. 2; Sp. p. 738; Gaz. vol. 139; p. 127.
- Kidder, W. P., Boston, Mass., assignor to Parker Machine Company, Buffalo, N. Y. Keyboard-lock for type-writers. No. 938,059; Oct. 26; Sp. p. 5137; Gaz. vol. 147; p. 882.
- Kidney, W. M., Seattle, Wash. Strapping-machine. No. 913,397; Feb. 23; Sp. p. 4886; Gaz. vol. 139; p. 875.
- Kidwell, J. W., Richmond, Va. Belt-fastener. No. 934,321; Sept. 14; Sp. p. 2729; Gaz. vol. 146; p. 454.
- Kiefer, J. M., St. Louis, Mo. Folding davenport or couch. No. 910,545; Jan. 26; Sp. p. 4328; Gaz. vol. 138; p. 794.
- Kiefer, J. P., Washington, D. C. Veterinary dental implement. No. 927,249; July 6; Sp. p. 1134; Gaz. vol. 144; p. 184.
- Kiefer, K., Cincinnati, Ohio. Valve for liquids. No. 930,386; Aug. 10; Sp. p. 1543; Gaz. vol. 145; p. 279.
- Kiefer, K., Cincinnati, Ohio. Liquid-valve. No. 930,387; Aug. 10; Sp. p. 1544; Gaz. vol. 145; p. 280.
- Kiel, H. J., Wheeling, W. Va. Valve of the globe type. No. 940,163; Nov. 16; Sp. p. 3798; Gaz. vol. 148; p. 647.
- Kiel, P. F., Albert Lea, Minn. Washing-machine. No. 933,183; Sept. 7; Sp. p. 320; Gaz. vol. 146; p. 52.
- Kiely, F., Los Angeles, Cal. Baking-powder tester. No. 940,258; Nov. 16; Sp. p. 4004; Gaz. vol. 148; p. 681.
- Kiely, J. F., Syracuse, N. Y. Time-recorder. No. 929,227; July 27; Sp. p. 5218; Gaz. vol. 144; p. 925.
- Kiely, J. F., Syracuse, N. Y. Time-recorder. No. 929,228; July 27; Sp. p. 5225; Gaz. vol. 144; p. 926.
- Kienast, T. W., assignor to Samuel Cupples Envelope Company, New York, N. Y. Envelop-machine. No. 933,374; Sept. 7; Sp. p. 773; Gaz. vol. 146; p. 121.
- Kienast, T. W., assignor to Samuel Cupples Envelope Company, New York, N. Y. Surface-coating mechanism. No. 933,375; Sept. 7; Sp. p. 783; Gaz. vol. 146; p. 121.
- Kienast, T. W., assignor to Samuel Cupples Envelope Company, New York, N. Y. Cutting mechanism. No. 933,712; Sept. 7; Sp. p. 1535; Gaz. vol. 146; p. 232.
- Kier, J. M., Danville, Wash. Cream-whipper. No. 913,398; Feb. 23; Sp. p. 4889; Gaz. vol. 139; p. 876.
- Kieren, C., Appleton, Wis. Machine for making twine. No. 939,268; Nov. 9; Sp. p. 1780; Gaz. vol. 148; p. 308.
- Kieren, H., assignor of one-half to F. H. Miller, Crystal Falls, Mich. Blow-off valve. No. 913,644; Feb. 23; Sp. p. 5444; Gaz. vol. 139; p. 959.
- Kiesel, W. F., Jr., Altoona, Pa. Curtain-fastener for vestibule-cars. No. 915,358; Mar. 16; Sp. p. 3508; Gaz. vol. 140; p. 612.
- Kiesel, W. F., Jr., Altoona, Pa. Trailer-truck for locomotives. No. 929,768; Aug. 3; Sp. p. 288; Gaz. vol. 145; p. 50.
- Kieselhorst, H. A., St. Louis, Mo. Automatic intermittent flushing-valve. No. 928,459; July 20; Sp. p. 3664; Gaz. vol. 144; p. 645.
- Kieser, W., Berlin, Germany, assignor to General Electric Company. Combined stop and emergency valve. No. 922,433; May 18; Sp. p. 4795; Gaz. vol. 142; p. 830.
- Kiesler, J., Chicago, Ill. Power-shovel. No. 936,727; Oct. 12; Sp. p. 2369; Gaz. vol. 147; p. 394.
- Kiessling, N. (See Kiessling, W. J. and N.)
- Kiessling, W. J. and N., Blue Island, Ill. Portable reed-organ. No. 909,911; Jan. 19; Sp. p. 2988; Gaz. vol. 138; p. 554.
- Kietzer, F. J. (See Youngberg and Parnall, assignors.)
- Kift, R., Philadelphia, Pa. Flower or plant holder. No. 926,574; June 29; Sp. p. 7227; Gaz. vol. 143; p. 1278.
- Kiggins & Tooker Co. (See Hoberg, E. F., assignor.)
- Kilborn, A., Middle Brighton, Victoria, Australia. Suction-operated valve mechanism. No. 935,521; Sept. 28; Sp. p. 5128; Gaz. vol. 146; p. 901.
- Kilbourne, H. S., Washington, D. C. Metallic cross-tie and rail-clamp. No. 931,622; Aug. 17; Sp. p. 4187; Gaz. vol. 145; p. 718.
- Kilbourne and Jacobs Manufacturing Company. (See Doty and Burner, assignors.)
- Kilbourne and Jacobs Manufacturing Company. (See Doty, Burner, and Stagg, assignors.)
- Kilbourne and Jacobs Manufacturing Company. (See Stagg, T. H., assignor.)
- Kilbourne and Jacobs Manufacturing Company. (See Stagg and Anthony, assignors.)
- Kilburn, J. B., assignor to Hale and Kilburn Manufacturing Company, Philadelphia, Pa. Car-seating. No. 911,246; Feb. 2; Sp. p. 445; Gaz. vol. 139; p. 76.
- Kilburn, J. B., and E. G. Budd, assignors to Hale and Kilburn Manufacturing Company, Philadelphia, Pa. Upper berth for sleeping-cars. No. 922,913; May 25; Sp. p. 5815; Gaz. vol. 142; p. 1014.
- Kilby, C. B., Crumpler, N. C. Envelop. No. 940,974; Nov. 23; Sp. p. 5585; Gaz. vol. 148; p. 945.
- Kilby, E. M. (See Leslie, H., assignor.)
- Kilby, W. N., and S. W. Kerr, Lancaster, Wis. Planter-shoe truck. No. 941,421; Nov. 30; Sp. p. 6580; Gaz. vol. 148; p. 1116.
- Kile, H., Greeley, Colo. Conveyer. No. 917,769; Apr. 13; Sp. p. 1622; Gaz. vol. 141; p. 302.
- Kilgore, F. O., Minneapolis, Minn., assignor to Kilgore Manufacturing Company, Oldtown, Me. Cushioning device. No. 923,858; June 8; Sp. p. 1708; Gaz. vol. 143; p. 284.
- Kilgore, J. D., Homestead, assignor of one-half to C. G. Grubb, Pittsburg, Pa. Repeating cap-pistol. No. 929,311; July 27; Sp. p. 5430; Gaz. vol. 144; p. 955.
- Kilgore Manufacturing Company. (See Kilgore, F. O., assignor.)
- Kilgore, W. B. (See Kuhnelt, E. O. C., assignor.)
- Kilgore, W. B., assignor of one-half to E. O. C. Kuhnelt, Crafton, Pa. Punching-machine. No. 931,431; Aug. 17; Sp. p. 3827; Gaz. vol. 145; p. 660.
- Kilgore, W. B., assignor of one-half to E. O. C. Kuhnelt, Crafton, Pa. Punching-machine. No. 934,672; Sept. 21; Sp. p. 3416; Gaz. vol. 146; p. 596.
- Kilgour, D. F., Lexington, Mass. Boiler-setting. No. 909,805; Jan. 12; Sp. p. 2760; Gaz. vol. 138; p. 486.
- Kilker, J. C., East Helena, Mont. Revolving matte-car. No. 921,999; May 18; Sp. p. 3938; Gaz. vol. 142; p. 688.
- Killackey, J. (See Goehle, P. E., assignor.)
- Killeen, M. (See Maccoun and Killeen.)
- Killeen, M., Braddock, Pa. Blast-furnace casting apparatus. No. 912,688; Feb. 16; Sp. p. 3448; Gaz. vol. 139; p. 615.
- Killeen, T. J., Portland, Ore. Car-fender. No. 940,464; Nov. 16; Sp. p. 4491; Gaz. vol. 148; p. 751.
- Killen, W. E., and E. C. Phillips, Chicago, Ill. Vehicle-wheel. No. 930,769; Aug. 10; Sp. p. 2358; Gaz. vol. 145; p. 408.
- Killerbrue, E. G., assignor of one-half to W. F. Martin, Kenosha, Wis. Boot-cleaner. No. 926,749; July 6; Sp. p. 90; Gaz. vol. 144; p. 14.
- Killian, A. T., assignor to National Anti-Friction Roller-Bearing Company, Buffalo, N. Y. Roller-bearing. No. 931,931; Aug. 24; Sp. p. 4904; Gaz. vol. 145; p. 842.
- Killian, A. T., assignor to National Anti-Friction Roller-Bearing Company, Buffalo, N. Y. Thrust-bearing. No. 939,269; Nov. 9; Sp. p. 1786; Gaz. vol. 148; p. 309.
- Killian, W. J. (See McClintock, G. W., assignor.)
- Killing Molding Machine Co. (See Weigel, M. K., assignor.)
- Killing, A. S., Thomas, Okla. Vending-machine. No. 929,448; July 27; Sp. p. 5685; Gaz. vol. 144; p. 999.
- Killius, A. C., Spokane, assignor of one-half to W. McCormick, Hillyard, Wash. Trousers-supporter. No. 926,259; June 29; Sp. p. 6652; Gaz. vol. 143; p. 1174.
- Kilmer, F. J., and F. A. Hennig, Wimbledon, N. D. Card-exhibitor. No. 936,277; Oct. 5; Sp. p. 1391; Gaz. vol. 147; p. 215.
- Kilmer, G. F., Bisbee, Ariz. Ter. Lock-nut. No. 929,955; Aug. 3; Sp. p. 708; Gaz. vol. 145; p. 113.
- Kilmer, W. A., De Kalb, assignor to American Steel & Wire Company, Chicago, Ill. Staple-driving mechanism. No. 922,153; May 18; Sp. p. 4227; Gaz. vol. 142; p. 739.
- Kilpatrick, J. S., Woodstown, N. J. Feed-mixer. No. 913,399; Feb. 23; Sp. p. 4889; Gaz. vol. 139; p. 876.
- Kilpatrick, W. J., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 928,981; July 27; Sp. p. 4710; Gaz. vol. 144; p. 845.
- Kilpatrick, W. J., assignor to Air-Brake and Steam-Heat Connection Company, Atlanta, Ga. Flexible metallic pipe-coupling. No. 927,659; July 13; Sp. p. 1997; Gaz. vol. 144; p. 347.
- Kilroy, A. S., Great Falls, Mont. Educational device. No. 939,515; Nov. 9; Sp. p. 2364; Gaz. vol. 148; p. 392.
- Kilroy, C., Cedar Rapids, Iowa. Power-transmission mechanism. No. 940,880; Nov. 23; Sp. p. 5394; Gaz. vol. 148; p. 914.
- Kilroy, D. H., Alma, Mont. Gate-fastener. No. 921,257; May 11; Sp. p. 2376; Gaz. vol. 142; p. 516.
- Kim, G. E., Pittsburg, Pa. Water-bag syringe. No. 926,197; June 29; Sp. p. 6527; Gaz. vol. 143; p. 1154.
- Kimball, B. A. (See Cushman, A. L., assignor.)
- Kimball, C. E., Council Bluffs, Iowa. Tire-protector. No. 927,980; July 13; Sp. p. 2661; Gaz. vol. 144; p. 453.

*Alphabetical list of patentees—Continued.*

- Kimball, E. A., and H. S. Freeman, St. Paul, Minn. Rail-joint. No. 926,879; July 6; Sp. p. 362; Gaz. vol. 144; p. 58.  
 Kimball, E. S., New Haven, Conn. Blowpipe. No. 931,623; Aug. 17; Sp. p. 4189; Gaz. vol. 145; p. 718.  
 Kimball, F. G., Whittier, Cal. Air lift-pump. No. 939,270; Nov. 9; Sp. p. 1788; Gaz. vol. 148; p. 309.  
 Kimball, G. W., Springfield, Mass. Valve for paper-pulp conduits. No. 913,400; Feb. 23; Sp. p. 4891; Gaz. vol. 139; p. 877.  
 Kimball, J. L., assignor to Locke Regulator Company, Salem, Mass. Automatic engine stop-valve. No. 912,384; Feb. 16; Sp. p. 2804; Gaz. vol. 139; p. 511.  
 Kimball, J. L., assignor to Locke Regulator Company, Salem, Mass. Automatic engine stop-valve. No. 912,385; Feb. 16; Sp. p. 2805; Gaz. vol. 139; p. 512.  
 Kimball, J. S., San Francisco, Cal. Concrete pile-covering. No. 927,357; July 6; Sp. p. 1312; Gaz. vol. 144; p. 217.  
 Kimball, L. B. (See Murray and Kimball.)  
 Kimball, P. L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Centrifugal cream-separator. No. 920,481; May 4; Sp. p. 778; Gaz. vol. 142; p. 126.  
 Kimball, P. L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Centrifugal liquid-separator. No. 928,130; July 13; Sp. p. 2943; Gaz. vol. 144; p. 503.  
 Kimball, P. L., assignor to Vermont Farm Machine Company, Bellows Falls, Vt. Centrifugal cream-separator. No. 941,881; Nov. 30; Sp. p. 7553; Gaz. vol. 148; p. 1271.  
 Kimble, A., assignor to Kimble Electric Company, Chicago, Ill. Brush-holder. No. 942,264; Dec. 7; Sp. p. 502; Gaz. vol. 149; p. 78.  
 Kimble, A., assignor to Kimble Electric Company, Chicago, Ill. Motor-controller. No. 942,382; Dec. 7; Sp. p. 727; Gaz. vol. 149; p. 119.  
 Kimble Electric Company. (See Kimble, A., assignor.)  
 Kimble, J. E., assignor to Eclipse Governor Company, Vicksburg, Mich. Speed-regulating device for engine-governors. No. 912,689; Feb. 16; Sp. p. 3451; Gaz. vol. 139; p. 616.  
 Kimble, M., Highwood, Ill. Hoisting device. No. 917,311; Apr. 6; Sp. p. 732; Gaz. vol. 141; p. 125.  
 Kimble, W. W., Honesdale, Pa. Shoe-block. No. 943,975; Dec. 21; Sp. p. 4178; Gaz. vol. 149; p. 723.  
 Kime, F. A., Baker City, Oreg. Poke. No. 913,510; Feb. 23; Sp. p. 5112; Gaz. vol. 139; p. 913.  
 Kimes, P. N. (See Gardner, C. C., assignor.)  
 Kimman, H. J. (See Duntley and Kimman.)  
 Kimmel, A., Reynoldsville, Pa. Dough-cutting device. No. 925,919; June 22; Sp. p. 5941; Gaz. vol. 143; p. 1025.  
 Kimmel, D., Warren, Pa. Oil-well bailer. No. 908,680; Jan. 5; Sp. p. 536; Gaz. vol. 138; p. 83.  
 Kimmel, R. (See Heym and Kimmel.)  
 Kimmel, R. L., Benrath, near Dusseldorf, Germany. Leaper's obstacle. No. 932,142; Aug. 24; Sp. p. 5351; Gaz. vol. 145; p. 912.  
 Kimsey Company. (See Kimsey, J. C., assignor.)  
 Kimsey, J. C., deceased, Philadelphia, Pa.; R. R. Vale, executor, assignor to Kimsey Company. Window. No. 909,094; Jan. 5; Sp. p. 1351; Gaz. vol. 138; p. 217.  
 Kimsey, J. C., assignor to American Paper Bottle Company, Philadelphia, Pa. Paper box for articles of merchandise. No. 929,600; July 27; Sp. p. 5967; Gaz. vol. 144; p. 1048.  
 Kimura, T., Port Blakely, Wash. Wood-sawing machine. No. 938,151; Oct. 26; Sp. p. 5343; Gaz. vol. 147; p. 913.  
 Kincaid, C. W., Roncerverte, W. Va. Machine for cutting bungs. No. 911,308; Feb. 2; Sp. p. 562; Gaz. vol. 139; p. 96.  
 Kincaid, J. W., Crane, Mo. Bench-clamp. No. 928,460; July 20; Sp. p. 3666; Gaz. vol. 144; p. 646.  
 Kindahl, F., Cambridge, Mass. Runner for wagons. No. 937,999; Oct. 26; Sp. p. 5004; Gaz. vol. 147; p. 862.  
 Kindel, G. J., Denver, Colo. Surface brush for pneumatic cleaning apparatus. No. 928,982; July 27; Sp. p. 4715; Gaz. vol. 144; p. 846.  
 Kinder, A. H., Boston, assignor to C. F. and F. B. Hopewell, Cambridge, Mass. Spare-tire case. No. 926,499; June 29; Sp. p. 7094; Gaz. vol. 143; p. 1252.  
 Kinder, G. A., Kansas City, assignor to R. Lewis, N. Collins, and D. C. Kinnaman, St. Joseph, Mo. Bread-slicing machine. No. 923,125; May 25; Sp. p. 6259; Gaz. vol. 142; p. 1083.  
 Kinder, G. W., *et al.* (See Flynn, J., assignor.)  
 Kinder, H. G., assignor to W. W. Kimball Company, Chicago, Ill. Combination organ stop-action. No. 929,138; July 27; Sp. p. 5049; Gaz. vol. 144; p. 897.  
 Kinder, P. (See De Witt, A., assignor.)  
 Kindervater, J., Richmond, Va. Boiler. No. 910,133; Jan. 19; Sp. p. 3423; Gaz. vol. 138; p. 627.  
 Kindig, C. C., and J. L. Dexter, West Blocton, Ala. Throttle-valve. No. 924,080; June 8; Sp. p. 2123; Gaz. vol. 143; p. 354.  
 Kindig, S. C., and W. Wittler, Baltimore, Md.; said Kindig assignor to said Wittler. Envelop-sealing and stamp-affixing machine. No. 914,350; Mar. 2; Sp. p. 1477; Gaz. vol. 140; p. 230.  
 Kindleberger, J., and G. Garretson, San Diego, Cal.; said Kindleberger assignor to said Garretson. Boring-machine. No. 924,473; June 8; Sp. p. 2961; Gaz. vol. 143; p. 485.  
 Kindscher, C., assignor to Continental-Caoutchouc & Gutta-Percha Compagnie, Hanover, Germany. Detachable wheel-rim. No. 934,187; Sept. 14; Sp. p. 2481; Gaz. vol. 146; p. 409.  
 King, A. B., Los Angeles, Cal. Wrench. No. 914,580; Mar. 9; Sp. p. 1944; Gaz. vol. 140; p. 332.  
 King, B. H., *et al.* (See McKay, J. R., assignor.)  
 King, C., assignor to one-fourth to W. B. Haley and one-fourth to R. A. May, Louisiana, Mo. Holder for a series of small receptacles. No. 919,182; Apr. 20; Sp. p. 4583; Gaz. vol. 141; p. 800.  
 King, C. A. (See Crane and King.)  
 King, C. D., Brooklyn, N. Y. Diamond-fold-forming mechanism for paper-bag machines. No. 940,534; Nov. 16; Sp. p. 4635; Gaz. vol. 148; p. 773.  
 King, C. E., Washington, D. C. Tire-protector. No. 943,026; Dec. 14; Sp. p. 2149; Gaz. vol. 149; p. 368.  
 King, C. M., Derby, Conn. Cork-extractor. No. 910,923; Jan. 26; Sp. p. 5081; Gaz. vol. 138; p. 916.  
 King, C. W., Birmingham, Ala. Molding-machine. No. 939,030; Nov. 2; Sp. p. 1250; Gaz. vol. 148; p. 201.  
 King, C. W. G., Philadelphia, Pa., assignor to American Locomotive Sander Company, Camden, N. J. Track-sander. No. 914,425; Mar. 9; Sp. p. 1638; Gaz. vol. 140; p. 280.  
 King, C. W. G., Philadelphia, Pa., assignor to United States Metallic Packing Company, Camden, N. J. Metallic rod-packing ring. No. 914,426; Mar. 9; Sp. p. 1640; Gaz. vol. 140; p. 280.  
 King, E. A., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Square. No. 919,883; Apr. 27; Sp. p. 6275; Gaz. vol. 141; p. 1071.  
 King, E. C., Charlottesville, Va. Headlight-operating means. No. 924,557; June 8; Sp. p. 3139; Gaz. vol. 143; p. 512.  
 King, F. B., Albion, Mich. Spring. No. 912,855; Feb. 16; Sp. p. 3805; Gaz. vol. 139; p. 670.  
 King, F. J., Waverly, W. Va. Floor-scraper. No. 931,432; Aug. 17; Sp. p. 3829; Gaz. vol. 145; p. 661.  
 King Fifth Wheel Company. (See Freeburg, F. M., assignor.)  
 King, G. B. (See Hohn, L., assignor.)  
 King, G. R., New York, N. Y., assignor to J. B. King & Co. Barrel-fastener. No. 922,292; May 18; Sp. p. 4513; Gaz. vol. 142; p. 784.  
 King, G. W., St. Joseph, Mich. Toy. No. 921,847; May 18; Sp. p. 3632; Gaz. vol. 142; p. 640.  
 King, G. W., Marion, Ohio, H. G. Harding, Vincennes, Ind., and H. J. Barnhart, assignors to Marion Steam Shovel Company, Marion, Ohio. Spud-brace for dredges, &c. No. 918,864; Apr. 20; Sp. p. 3966; Gaz. vol. 141; p. 697.  
 King, H. A. (See Cornish, H. S., assignor.)  
 King, H. B., assignor to F. J. Knox, Hartford, Conn. Well-drill. No. 933,762; Sept. 14; Sp. p. 1641; Gaz. vol. 146; p. 271.  
 King, H. B., assignor to F. J. Knox, Hartford, Conn. Jar for well-drills. No. 935,914; Oct. 5; Sp. p. 677; Gaz. vol. 147; p. 98.  
 King, H. K., Philadelphia, Pa., assignor to Chambers Brothers Company. Machine for feeding sheets. No. 942,078; Dec. 7; Sp. p. 79; Gaz. vol. 149; p. 15.  
 King, H. K., Philadelphia, Pa., assignor to Chambers Brothers Company. Sheet-registering mechanism. No. 942,079; Dec. 7; Sp. p. 83; Gaz. vol. 149; p. 15.  
 King, H. K., Philadelphia, Pa., assignor to Chambers Brothers Company. Brick-machine indenting. No. 944,442; Dec. 28; Sp. p. 5169; Gaz. vol. 149; p. 907.  
 King, H. M., Hattiesburg, Miss. Match holder or safe. No. 939,710; Nov. 9; Sp. p. 2782; Gaz. vol. 148; p. 459.  
 King, H. W., Echo, Oreg. Earth-excavator. No. 911,131; Feb. 2; Sp. p. 205; Gaz. vol. 139; p. 39.  
 King & Hamilton Company. (See Gilman, J. H., assignor.)  
 King & Hamilton Company. (See Koontz, G. B., assignor.)  
 King, J., Corinth, Miss. Wrench. No. 911,048; Feb. 2; Sp. p. 48; Gaz. vol. 139; p. 11.  
 King, J. A., *et al.* (See Matteson, R. S., assignor.)  
 King, J. A., assignor of two-thirds to I. Spaulding and A. H. Banker, Three Rivers, Mich. Cultivator. No. 922,000; May 18; Sp. p. 3941; Gaz. vol. 142; p. 689.  
 King, J. C., assignor of one-half to J. Franklin, Hemet, Cal. Animal-trap. No. 912,134; Feb. 9; Sp. p. 2264; Gaz. vol. 139; p. 392.  
 King, J. F., Kalamazoo, Mich. Truck. No. 914,427; Mar. 9; Sp. p. 1642; Gaz. vol. 140; p. 281.  
 King, J. F., assignor of one-half to A. L. Pratt, Kalamazoo, Mich. Self-lubricating wheel. No. 921,412; May 11; Sp. p. 2717; Gaz. vol. 142; p. 467.



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- King, J. H., Atlanta, Ga. Tie-plate. No. 928,869; July 20; Sp. p. 4481; Gaz. vol. 144; p. 780.
- Klag, J. L. O., Seneca, S. C. Water-elevator. No. 930,295; Aug. 3; Sp. p. 1363; Gaz. vol. 145; p. 226.
- King, J. M., Williamsport, Pa. Dividers. No. 936,135; Oct. 5; Sp. p. 1129; Gaz. vol. 147; p. 171.
- King, J. O., Carlisle, Ky., and N. E. Rubert Aledo, Ill. Meat-tenderer. No. 921,006; May 11; Sp. p. 1854; Gaz. vol. 142; p. 329.
- King, J. O., assignor to King Leather Tire Co., Milwaukee, Wis. Making casings for pneumatic vehicle-tires. No. 931,207; Aug. 17; Sp. p. 3350; Gaz. vol. 145; p. 582.
- King, J. W., New York, N. Y. Dumping-vehicle. No. 908,869; Jan. 5; Sp. p. 907; Gaz. vol. 138; p. 144.
- King, L., Baltimore, Md. Food compound. No. 915,186; Mar. 16; Sp. p. 3172; Gaz. vol. 140; p. 557.
- King, L., Lyman, Miss. Valve-gear. No. 921,413; May 11; Sp. p. 2719; Gaz. vol. 142; p. 468.
- King, L., Lyman, Miss. Combined step-ladder and ironing-board. No. 936,909; Oct. 12; Sp. p. 2725; Gaz. vol. 147; p. 454.
- King, L. B., Springfield, Ill. Acetylene-gas lamp. No. 944,789; Dec. 28; Sp. p. 5945; Gaz. vol. 149; p. 1025.
- King, L. E., Bay City, Mich. Marine life-saving apparatus. No. 934,322; Sept. 14; Sp. p. 2730; Gaz. vol. 146; p. 454.
- King, L. W., assignor of two-thirds to J. J. Bailey, Providence, R. I., and W. B. King, Milford, Mass. Toy. No. 922,775; May 25; Sp. p. 5514; Gaz. vol. 142; p. 970.
- King Leather Tire Co. (See King, J. O., assignor.)
- King, M. M., assignor of one-half to M. Speer, Albany, N. Y. Box. No. 938,590; Nov. 2; Sp. p. 338; Gaz. vol. 148; p. 50.
- King, R. E., Port Norfolk, Va. Checkrein-holder. No. 923,276; June 1; Sp. p. 388; Gaz. vol. 143; p. 54.
- King, R. S., Vallejo, Cal. Extensible shaft-coupling. No. 918,062; Apr. 13; Sp. p. 2244; Gaz. vol. 141; p. 403.
- King, S. M., Burnet, Tex. Cooler. No. 909,806; Jan. 12; Sp. p. 2763; Gaz. vol. 138; p. 487.
- King, S. W. (See Young, J. N., assignor.)
- King, T., *et al.* (See Schuman, J. B., assignor.)
- King, T. C., Purvis, Miss. Automatic safety-switch. No. 926,575; June 29; Sp. p. 7228; Gaz. vol. 143; p. 1278.
- King, T. J., Richmond, Va. Listing and bedding machine. No. 930,192; Aug. 3; Sp. p. 1192; Gaz. vol. 145; p. 194.
- King, T. J., Richmond, Va. Farming implement. No. 932,785; Aug. 31; Sp. p. 6696; Gaz. vol. 145; p. 1149.
- King, T. J., Richmond, Va. Weeding or chopping hoe. No. 932,872; Aug. 31; Sp. p. 6853; Gaz. vol. 145; p. 1176.
- King, T. J., Richmond, Va. Cotton-chopper. No. 936,136; Oct. 5; Sp. p. 1131; Gaz. vol. 147; p. 172.
- King, T. L., Hampton, Ark. Railway switch and signal. No. 908,578; Jan. 5; Sp. p. 304; Gaz. vol. 138; p. 51.
- King, T. W., Kingman, Kans. Fence. No. 935,522; Sept. 28; Sp. p. 5130; Gaz. vol. 146; p. 902.
- King, W. B., *et al.* (See King, L. W., assignor.)
- King, W. C., Campbell, Cal. Disk harrow. No. 917,455; Apr. 6; Sp. p. 987; Gaz. vol. 141; p. 172.
- King, W. G., New York, N. Y. Eyeglass-clip. No. 927,981; July 13; Sp. p. 2662; Gaz. vol. 144; p. 453.
- King, W. L., Indianapolis, Ind. Letter-clamp. No. 918,329; Apr. 13; Sp. p. 2774; Gaz. vol. 141; p. 491.
- Klag, W. N., New York, N. Y. Announcement-board. No. 943,941; Dec. 21; Sp. p. 4108; Gaz. vol. 149; p. 712.
- King, W. R., Newark, N. J., assignor to Hanson & Van Winkle Co. Electroplating plant. No. 929,312; July 27; Sp. p. 5432; Gaz. vol. 144; p. 955.
- King, W. S., San Francisco, Cal. Cigarette and like paper holder. No. 928,058; July 13; Sp. p. 2821; Gaz. vol. 144; p. 480.
- King, W. W., Huntsburg, Ohio. Jump-spark plug for explosion-engines. No. 923,535; June 1; Sp. p. 934; Gaz. vol. 143; p. 145.
- Kingman, E. B., Leominster, Mass. Barrette. No. 931,577; Aug. 24; Sp. p. 4765; Gaz. vol. 145; p. 824.
- Kings Norton Metal Company. (See Bayless, Hodgkinson, Hardcastle, Coote, and Payne, assignors.)
- Kingsbury, E., *et al.* (See Armstrong, W. P., assignor.)
- Kingsbury, H. T., Keene, N. H. Wheel toy. No. 921,258; May 11; Sp. p. 2378; Gaz. vol. 142; p. 416.
- Kingsbury, H. T., Keene, N. H. Toy vehicle. No. 922,914; May 25; Sp. p. 5819; Gaz. vol. 142; p. 1015.
- Kingsbury, H. T., Keene, N. H. Toy dumping-cart. No. 944,443; Dec. 28; Sp. p. 5171; Gaz. vol. 149; p. 907.
- Kingsbury, J. G., assignor to New York Adding Typewriter Company, Orange, N. J. Adding type-writer. No. 932,786; Aug. 31; Sp. p. 6698; Gaz. vol. 145; p. 1149.
- Kingsbury, W., Elkston, Alberta, Canada. Coffee or tea container. No. 916,327; Mar. 23; Sp. p. 5400; Gaz. vol. 140; p. 959.
- Kingsley, A. E. (See Kingsley, G. E., assignor.)
- Kingsley, A. F., New York, N. Y., assignor to Locomotive Equipment Company. Locomotive and other furnace. No. 943,942; Dec. 21; Sp. p. 4109; Gaz. vol. 149; p. 712.
- Kingsley, G., New York, N. Y. Water-tube boiler. No. 939,031; Nov. 2; Sp. p. 1253; Gaz. vol. 148; p. 201.
- Kingsley, G. E., Toronto, Ontario, Canada, assignor to A. E. Kingsley, Denver, Colo. Treating complex sulfid ores. No. 914,730; Mar. 9; Sp. p. 2274; Gaz. vol. 140; p. 381.
- Kingsley, H. J., Rutland, Vt. Horn. No. 936,910; Oct. 12; Sp. p. 2726; Gaz. vol. 147; p. 454.
- Kingston, G. R., *et al.* (See Barrett, R., assignor.)
- Kingston, P. A., Danville, Ill. Signal-lamp. No. 916,717; Mar. 30; Sp. p. 6197; Gaz. vol. 140; p. 1110.
- Kingston, T. H., Somerville, Mass. Builder's ledger-clamp. No. 915,187; Mar. 16; Sp. p. 3173; Gaz. vol. 140; p. 557.
- Kinkade, B. B., Berkeley, Cal. Water-heating system. No. 941,784; Nov. 30; Sp. p. 7338; Gaz. vol. 148; p. 1237.
- Kinkade, B. B., Berkeley, Cal. Water-heater. No. 941,882; Nov. 30; Sp. p. 7554; Gaz. vol. 148; p. 1271.
- Kinnaman, D. C., *et al.* (See Kinder, G. A., assignor.)
- Kinnard, J. R. G., *et al.*, administrators. (See Kinnard, W. M.)
- Kinnard Manufacturing Company. (See Kinnard, W. M., assignor.)
- Kinnard, W. M., assignor to Kinnard Manufacturing Company, Dayton, Ohio. Paper vessel. No. 917,456; Apr. 6; Sp. p. 989; Gaz. vol. 141; p. 172.
- Kinnard, W. M., deceased; H. Gebhart and J. R. G. Kinnard, administrators, assignors to Kinnard Mfg. Co., Dayton, Ohio. Balling-machine. No. 924,995; June 15; Sp. p. 4081; Gaz. vol. 143; p. 695.
- Kinne, E. P., Alliance, Ohio, assignor, by mesne assignments, to American Steel Foundries, New York, N. Y. Transom draft-gear. No. 926,812; July 6; Sp. p. 212; Gaz. vol. 144; p. 35.
- Kinnear Manufacturing Company. (See Rush, A., assignor.)
- Kinnear, W. R., *et al.* (See Zieme, C. H., assignor.)
- Kinnear, W. R., New Castle, Pa. Annealing or other like apparatus. No. 935,793; Oct. 5; Sp. p. 400; Gaz. vol. 147; p. 59.
- Kinney, F. H., Hemlock, N. Y. Metallic railway-tie. No. 916,451; Mar. 30; Sp. p. 5669; Gaz. vol. 140; p. 1025.
- Kinney, F. H., Hemlock, N. Y. Metallic railway-tie. No. 925,705; June 22; Sp. p. 5457; Gaz. vol. 143; p. 954.
- Kinney, F. W., Chicago, Ill. Bed-bottom fabric. No. 914,958; Mar. 9; Sp. p. 2705; Gaz. vol. 140; p. 454.
- Kinney, J. R., Rochester, Mass. Rotary motor or pump. No. 936,542; Oct. 12; Sp. p. 1997; Gaz. vol. 147; p. 329.
- Kinney, J. R., Rochester, Mass. Rotary engine. No. 936,543; Oct. 12; Sp. p. 2001; Gaz. vol. 147; p. 329.
- Kinney, J. R., Rochester, Mass. Rotary motor and pump. No. 942,080; Dec. 7; Sp. p. 85; Gaz. vol. 149; p. 15.
- Kinnucan, A. J., assignor to Briscoe Manufacturing Company, Detroit, Mich. Steering-wheel for automobiles. No. 909,807; Jan. 12; Sp. p. 2764; Gaz. vol. 138; p. 487.
- Kinsel, H. C., Altoona, Pa. Switch-operating mechanism. No. 920,964; May 11; Sp. p. 1776; Gaz. vol. 142; p. 316.
- Kinsel, J., Philadelphia, Pa. Ice-creper. No. 917,877; Apr. 13; Sp. p. 1844; Gaz. vol. 141; p. 336.
- Kinsey Box Company. (See Kinsey, H. H., assignor.)
- Kinsey, H. H., assignor, by mesne assignments, to Kinsey Box Company, Ogden, Utah. Box. No. 942,391; Dec. 7; Sp. p. 743; Gaz. vol. 149; p. 122.
- Kinsman Block System Company. (See Kinsman, F. E., assignor.)
- Kinsman Block System Company. (See Meschenmoser and Kinsman, assignors.)
- Kinsman, C. D., Lincoln, Nebr. Road-scraper. No. 937,216; Oct. 19; Sp. p. 3362; Gaz. vol. 147; p. 584.
- Kinsman, C. H. (See Meschenmoser and Kinsman.)
- Kinsman, F. E., Plainfield, N. J. Ice-clearing and contact wheel for electric railways. No. 917,735; Apr. 6; Sp. p. 1505; Gaz. vol. 141; p. 263.
- Kinsman, F. E., Plainfield, N. J., assignor to Kinsman Block System Company. Means for controlling the movements of a vehicle. No. 911,595; Feb. 9; Sp. p. 1113; Gaz. vol. 139; p. 216.
- Kinsman, F. E., Plainfield, N. J., assignor to Kinsman Block System Company. Contact-maker. No. 911,596; Feb. 9; Sp. p. 1118; Gaz. vol. 139; p. 216.
- Kinsman, J. C., Manawa, Wis. Mail-rack. No. 925,347; June 15; Sp. p. 4736; Gaz. vol. 143; p. 803.
- Kintner, A. E., Painesville, Ohio. Traction-increasing device. No. 938,490; Nov. 2; Sp. p. 96; Gaz. vol. 148; p. 15.
- Kintner, C. J., New York, N. Y. Safety appliance for railways. No. 915,188; Mar. 16; Sp. p. 3174; Gaz. vol. 140; p. 557.
- Kintner, C. J., New York, N. Y. Safety system for electric railways. No. 915,189; Mar. 16; Sp. p. 3183; Gaz. vol. 140; p. 557.
- Kintner, C. J., New York, N. Y. Railway-signal. No. 915,190; Mar. 16; Sp. p. 3193; Gaz. vol. 140; p. 558.
- Kintner, C. J., assignor to Miniature Telephone Booth Co., New York, N. Y. Appliance for use with telephone-transmitters. No. 933,060; Oct. 26; Sp. p. 5140; Gaz. vol. 147; p. 883.
- Kintner, S. M. (See Rowe and Kintner.)

*Alphabetical list of patentees—Continued.*

- Kintner, S. M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ozone-producer. No. 920,965; May 11; Sp. p. 1778; Gaz. vol. 142; p. 316.
- Kintz, E. S., Kenmore, assignor of one-half to M. O. Hower, Akron, Ohio. Vehicle-wheel. No. 922,597; May 25; Sp. p. 5147; Gaz. vol. 142; p. 912.
- Kintz, H., Sharpsburg, Pa. Head-rest for beds. No. 919,025; Apr. 20; Sp. p. 4295; Gaz. vol. 141; p. 750.
- Kintz, R. H., Meriden, Conn. Shelf-bracket. No. 937,000; Oct. 26; Sp. p. 5005; Gaz. vol. 147; p. 863.
- Kintzele, J. R., assignor to Meyer Supply Company, St. Louis, Mo. Bottle soaking and rinsing machine. No. 937,444; Oct. 19; Sp. p. 3869; Gaz. vol. 147; p. 659.
- Kinyon, R. D., Chicago, Ill. Circular cutter. No. 942,081; Dec. 7; Sp. p. 93; Gaz. vol. 149; p. 16.
- Kipp, A., Memphis, Tenn. Measuring-glass. No. 925,582; June 22; Sp. p. 5200; Gaz. vol. 143; p. 915.
- Kipp, S., Pittsburg, Pa. Device for handling train orders and messages. No. 932,873; Aug. 31; Sp. p. 6854; Gaz. vol. 145; p. 1177.
- Kiralfy, I., London, England. Amusement device. No. 913,511; Feb. 23; Sp. p. 5113; Gaz. vol. 139; p. 913.
- Kiraly, A. (See Száva, J., assignor.)
- Kirberg, J. E., Philadelphia, Pa., assignor to Hensel-Colladay Company. Machine for making braids and trimmings. No. 928,461; July 20; Sp. p. 3667; Gaz. vol. 144; p. 646.
- Kirberg, J. E., Philadelphia, Pa., assignor to Hensel-Colladay Company. Machine for making braids and trimmings. No. 928,462; July 20; Sp. p. 3671; Gaz. vol. 144; p. 646.
- Kirby, A. H. (See Totten, M., assignor.)
- Kirby Equipment Company. (See Woodman, G. A., assignor.)
- Kirby, G., Marysville, Mont. Spur. No. 916,718; Mar. 30; Sp. p. 6201; Gaz. vol. 140; p. 1111.
- Kirby, G. J., Willimantic, Conn. Key-ring. No. 932,787; Aug. 31; Sp. p. 6704; Gaz. vol. 145; p. 1150.
- Kirby, H. M., Wilmington, Del. Drain-valve. No. 934,188; Sept. 14; Sp. p. 2482; Gaz. vol. 146; p. 410.
- Kirby, J., Leeds, England, assignor to W. Ross, Troy, N. Y. Centrifugal fan, pump, and the like. No. 939,140; Nov. 2; Sp. p. 1464; Gaz. vol. 148; p. 238.
- Kirby, J. M., Longmont, Colo. Picture-projecting apparatus. No. 915,359; Mar. 16; Sp. p. 3509; Gaz. vol. 140; p. 612.
- Kirchberg, E., Dortmund, Germany. Regenerative furnace. No. 944,444; Dec. 23; Sp. p. 5173; Gaz. vol. 149; p. 907.
- Kircher, H. A., Cherokee, Iowa. Tripod. No. 937,612; Oct. 19; Sp. p. 4203; Gaz. vol. 147; p. 716.
- Kircher, W. G., Solingen, Germany. Can-opener. No. 940,932; Nov. 23; Sp. p. 5500; Gaz. vol. 148; p. 932.
- Kirchner, H. W., St. Louis, Mo., assignor to River & Rail Transportation Company, Guthrie, Okla. Freight-car. No. 922,293; May 18; Sp. p. 4514; Gaz. vol. 142; p. 784.
- Kirchner, H. W., St. Louis, Mo., assignor to River & Rail Transportation Company, Guthrie, Okla. Barge. No. 929,139; July 27; Sp. p. 5050; Gaz. vol. 144; p. 897.
- Kirk, C. J., New Castle, Pa. Coating metallic surfaces. No. 936,637; Oct. 12; Sp. p. 2196; Gaz. vol. 147; p. 363.
- Kirk, E. H., near Belle Center, Ohio. Building concrete work in the water. No. 936,638; Oct. 12; Sp. p. 2197; Gaz. vol. 147; p. 363.
- Kirk, E. L. (See Feist, C. M., assignor.)
- Kirk, G. E. (See Oldham and Kirk.)
- Kirk, R. H., Brooklyn, N. Y. Apparatus for making and harvesting ice. No. 934,544; Sept. 21; Sp. p. 3161; Gaz. vol. 146; p. 551.
- Kirk, R. H., Brooklyn, N. Y. Device for cutting plate-ice. No. 936,544; Oct. 12; Sp. p. 2003; Gaz. vol. 147; p. 330.
- Kirk, R. H., Brooklyn, N. Y. Freezing-plate. No. 938,061; Oct. 26; Sp. p. 5143; Gaz. vol. 147; p. 883.
- Kirk, W. H., Peoria, Ill. Vehicle-brake. No. 931,767; Aug. 24; Sp. p. 4545; Gaz. vol. 145; p. 789.
- Kirk, W. R., Kansas City, Mo. Fly and dust proof show-case. No. 935,850; Oct. 5; Sp. p. 530; Gaz. vol. 147; p. 77.
- Kirkby, R., assignor to A. T. Winkles, Leicester, England. Tov. No. 944,096; Dec. 21; Sp. p. 4427; Gaz. vol. 149; p. 763.
- Kirkegaard, G., New York, N. Y., assignor to Imperial Stopper Company. Capping-machine. No. 922,776; May 25; Sp. p. 5515; Gaz. vol. 142; p. 970.
- Kirkegaard, G., New York, N. Y., assignor to Imperial Stopper Company. Capping-machine. No. 922,777; May 25; Sp. p. 5517; Gaz. vol. 142; p. 970.
- Kirkegaard, G., New York, N. Y., assignor to Imperial Stopper Company. Capping-machine. No. 922,778; May 25; Sp. p. 5519; Gaz. vol. 142; p. 970.
- Kirkegaard, G., New York, N. Y., assignor to Imperial Stopper Company. Bottle-stopper. No. 922,779; May 25; Sp. p. 5521; Gaz. vol. 142; p. 971.
- Kirkegaard, G., New York, N. Y., assignor to Imperial Stopper Company. Bottle filling and capping machine. No. 924,360; June 8; Sp. p. 2756; Gaz. vol. 143; p. 449.
- Kirkegaard, G., New York, N. Y., assignor to Imperial Stopper Company. Bottle filling and capping machine. No. 926,424; June 29; Sp. p. 6970; Gaz. vol. 143; p. 1227.
- Kirkegaard, G., New York, N. Y., assignor to Imperial Stopper Company. Bottle-capping machine. No. 926,425; June 29; Sp. p. 6973; Gaz. vol. 143; p. 1228.
- Kirkegaard, G., New York, N. Y., assignor to Imperial Stopper Company. Bottle filling and capping head. No. 931,624; Aug. 17; Sp. p. 4190; Gaz. vol. 145; p. 718.
- Kirkegaard, G., New York, N. Y., assignor to Imperial Stopper Company. Bottle-stopper. No. 931,625; Aug. 17; Sp. p. 4193; Gaz. vol. 145; p. 719.
- Kirkegaard, G., New York, N. Y., assignor to Imperial Stopper Company. Capping-machine head. No. 931,626; Aug. 17; Sp. p. 4194; Gaz. vol. 145; p. 719.
- Kirkegaard, G., New York, N. Y., assignor to Imperial Stopper Company. Bottle-capping machine. No. 939,141; Nov. 2; Sp. p. 1468; Gaz. vol. 148; p. 238.
- Kirkendall, H. (See Eblen and Kirkendall.)
- Kirker, S. (See McCoy, M. H., assignor.)
- Kirkham, Hulett & Chandler. (See Hersey and Blake, assignors.)
- Kirkham, J., assignor of one-half to W. E. Pritchard, Los Angeles, Cal. Composition for railway-ties, &c. No. 942,505; Dec. 7; Sp. p. 1005; Gaz. vol. 149; p. 162.
- Kirkland, A. T. (See Reed, G. B., assignor.)
- Kirkland, G., and W. White, Winnipeg, Manitoba, Canada. Steering connection for traction-engines. No. 918,865; Apr. 20; Sp. p. 3970; Gaz. vol. 141; p. 698.
- Kirkpatrick, C. P. (See Robbins and Kirkpatrick.)
- Kirkpatrick, E. T., Cora, Idaho. Saw-handle. No. 921,121; May 11; Sp. p. 2094; Gaz. vol. 142; p. 369.
- Kirkpatrick, O. C., Dallas City, Ill. Ear-protector. No. 931,768; Aug. 24; Sp. p. 4548; Gaz. vol. 145; p. 789.
- Kirkpatrick, R. A., Buffalo, N. Y. Malt-house. No. 915,968; Mar. 23; Sp. p. 4749; Gaz. vol. 140; p. 841.
- Kirkpatrick, W. A. (See Robbins and Kirkpatrick.)
- Kirkpatrick, W. A., Abbyville, Kans. Dispensing-container. No. 910,826; Jan. 26; Sp. p. 4906; Gaz. vol. 138; p. 885.
- Kirkpatrick, W. H. G., Philadelphia, Pa. Molding for electric wiring. No. 936,639; Oct. 12; Sp. p. 2198; Gaz. vol. 147; p. 363.
- Kirksey, E. F., and J. T. Stegall, Clarksville, Tex. Tool-sharpener. No. 916,328; Mar. 23; Sp. p. 5402; Gaz. vol. 140; p. 959.
- Kirksey, J. G., Quincy, Ill. Ore granulator or pulverizer. No. 931,316; Aug. 17; Sp. p. 3597; Gaz. vol. 145; p. 620.
- Kirkwood, R., Scranton, Miss. Gem-setting device. No. 919,596; Apr. 27; Sp. p. 5674; Gaz. vol. 141; p. 975.
- Kirlin, L. (See Shearer and Kirlin.)
- Kirn, T. J., Louisville, Ky. Absorption refrigerating-machine. No. 925,920; June 22; Sp. p. 5942; Gaz. vol. 143; p. 1025.
- Kirnan, W. H., Bayonne, N. J. Alarm system. No. 911,016; Jan. 26; Sp. p. 5253; Gaz. vol. 138; p. 946.
- Kirnan, W. H., Bayonne, N. J. Alarm apparatus. No. 918,164; Apr. 13; Sp. p. 2436; Gaz. vol. 141; p. 437.
- Kirnan, W. H., Bayonne, N. J. Signal system. No. 924,670; June 15; Sp. p. 3393; Gaz. vol. 143; p. 584.
- Kirnan, W. H., Bayonne, N. J. Electric signaling fire-alarm apparatus. No. 930,388; Aug. 10; Sp. p. 1545; Gaz. vol. 145; p. 280.
- Kirnan, W. H., Bayonne, N. J. Fire-alarm signal apparatus. No. 930,971; Aug. 10; Sp. p. 2787; Gaz. vol. 145; p. 473.
- Kirnan, W. H., Bayonne, N. J. Thermostatic circuit-controller. No. 930,972; Aug. 10; Sp. p. 2793; Gaz. vol. 145; p. 473.
- Kirsch, C. W., assignor to Kirsch Manufacturing Company, Three Rivers, Mich. Stair-carpet fastener. No. 939,601; Nov. 9; Sp. p. 2564; Gaz. vol. 148; p. 421.
- Kirsch, L., Waterbury, Conn. Attachment for neckties. No. 910,072; Jan. 19; Sp. p. 3300; Gaz. vol. 138; p. 608.
- Kirsch Manufacturing Company. (See Kirsch, C. W., assignor.)
- Kirsch, O., Akron, Ohio. Vehicle-wheel rim. No. 940,602; Nov. 16; Sp. p. 4780; Gaz. vol. 148; p. 796.
- Kirschner, A. O., et al. (See Dotson, C. A., assignor.)
- Kiser, M., et al. (See Lewis, G. T., assignor.)
- Kishpaugh, E. L., Chatham, N. J. Railway-gate. No. 942,783; Dec. 7; Sp. p. 1551; Gaz. vol. 149; p. 255.
- Kiss, B., New York, N. Y. Washing-machine. No. 944,041; Dec. 21; Sp. p. 4323; Gaz. vol. 149; p. 745.
- Kissack, L. D., Cloverdale, Cal. Marine-engine governor. No. 921,714; May 18; Sp. p. 3342; Gaz. vol. 142; p. 595.
- Kisselle, C. C. (See Carpenter and Kisselle.)



*Alphabetical list of patentees—Continued.*

- Kissling, L. (See Härtel and Kissling.)  
 Kistler, A. E., Carroll, Ohio. Riding-cultivator. No. 928,769; July 20; Sp. p. 4282; Gaz. vol. 144; p. 746.  
 Kistler, J. C., Clinton, Mo. Clover-huller. No. 934,406; Sept. 14; Sp. p. 2896; Gaz. vol. 146; p. 484.  
 Kitchen, F. T. (See Emerson, Hawkins, and Kitchen.)  
 Kitchen, J., Jr., San Francisco, Cal. Manifold-book. No. 911,597; Feb. 9; Sp. p. 1122; Gaz. vol. 139; p. 217.  
 Kitchen, J. G. A., Lancaster, England. Internal-combustion engine. No. 923,536; June 1; Sp. p. 935; Gaz. vol. 143; p. 145.  
 Kitchen, J. H., et al. (See Smith, F. P., assignor.)  
 Kitchen, J. M. W., East Orange, N. J. Heating apparatus. No. 943,832; Dec. 21; Sp. p. 3868; Gaz. vol. 149; p. 673.  
 Kite, W., assignor of one-half to W. A. Colt and W. A. Colt, Jr., Las Animas, Colo. Beet-harvester. No. 909,424; Jan. 12; Sp. p. 2008; Gaz. vol. 138; p. 357.  
 Kitsee, I., Philadelphia, Pa. Extracting precious metals from ores. No. 913,735; Mar. 2; Sp. p. 116; Gaz. vol. 140; p. 21.  
 Kitsee, I., Philadelphia, Pa. Electric transmission of intelligence. No. 918,866; Apr. 20; Sp. p. 3972; Gaz. vol. 141; p. 698.  
 Kitsee, I., Philadelphia, Pa. Phonography. No. 920,752; May 4; Sp. p. 1330; Gaz. vol. 142; p. 216.  
 Kitsee, I., Philadelphia, Pa. Telegraphy. No. 921,715; May 18; Sp. p. 3343; Gaz. vol. 142; p. 595.  
 Kitsee, I., Philadelphia, Pa. Cable-relay. No. 922,780; May 25; Sp. p. 5522; Gaz. vol. 142; p. 971.  
 Kitsee, I., Philadelphia, Pa. Printing-telegraph. No. 922,781; May 25; Sp. p. 5526; Gaz. vol. 142; p. 971.  
 Kitsee, I., Philadelphia, Pa. Extracting precious metals from ores. No. 936,545; Oct. 12; Sp. p. 2004; Gaz. vol. 147; p. 330.  
 Kitsee, I., Philadelphia, Pa. Treating the spent liquor of paper-mills. No. 942,207; Dec. 7; Sp. p. 384; Gaz. vol. 149; p. 59.  
 Kitsee, I., Philadelphia, Pa. Duplex cable telegraphy. No. 942,208; Dec. 7; Sp. p. 386; Gaz. vol. 149; p. 59.  
 Kitsee, I., Philadelphia, Pa. Electrical conductor. No. 942,332; Dec. 7; Sp. p. 642; Gaz. vol. 149; p. 103.  
 Kitsee, I., assignor of one-half to W. J. Latta, Philadelphia, Pa. Telephony. No. 913,734; Mar. 2; Sp. p. 116; Gaz. vol. 140; p. 21.  
 Kittelman, A. L., Muncie, Ind. Wire-fabric-making machine. No. 925,639; June 22; Sp. p. 5314; Gaz. vol. 143; p. 934.  
 Kitson, J., Buffalo, N. Y. Turn-table. No. 935,994; Oct. 5; Sp. p. 842; Gaz. vol. 147; p. 126.  
 Kittelberger, A. (See Lampman and Kittelberger.)  
 Kittle, C. R. and J. R., Los Angeles, Cal. Hydrocarbon-burner. No. 930,193; Aug. 3; Sp. p. 1193; Gaz. vol. 145; p. 194.  
 Kittle, C. R., and G. E. Harpham, Los Angeles, Cal. Hydrocarbon-burner. No. 908,776; Jan. 5; Sp. p. 728; Gaz. vol. 138; p. 114.  
 Kittle, J. R. (See Kittle, C. R. and J. R.)  
 Kittlinger, F. W. (See Loewer and Kittlinger.)  
 Kittlinger, F. W., Rochester, N. Y. Locking-last. No. 935,995; Oct. 5; Sp. p. 844; Gaz. vol. 147; p. 126.  
 Kittmiller, D. G., Harrisburg, Pa. Draw-bar safety device. No. 933,078; Sept. 7; Sp. p. 82; Gaz. vol. 146; p. 14.  
 Kittmiller, G. M., Norfolk, Va. Automatic ribbon-reversing mechanism for type-writing machines. No. 942,383; Dec. 7; Sp. p. 729; Gaz. vol. 149; p. 119.  
 Kivian, J. L., Boston, Mass. Jar-closure. No. 913,214; Feb. 23; Sp. p. 4515; Gaz. vol. 139; p. 813.  
 Kivian, J. L., Boston, Mass. Combined cover and handle for milk-jars and the like. No. 920,068; Apr. 27; Sp. p. 6649; Gaz. vol. 141; p. 1131.  
 Kjaersgaard, A. M., Copenhagen, and C. S. J. Wiese, Odense, Denmark. Air-pump. No. 932,143; Aug. 24; Sp. p. 5352; Gaz. vol. 145; p. 913.  
 Kjaersgaard, A. M., Copenhagen, and C. S. J. Wiese, Odense, Denmark. Absorption apparatus for ice and freezing machines. No. 934,545; Sept. 21; Sp. p. 3163; Gaz. vol. 146; p. 552.  
 Kjellerstedt, A. G., Torrington, Conn. Tongs. No. 931,317; Aug. 17; Sp. p. 3598; Gaz. vol. 145; p. 620.  
 Klaassen, R. F., George, Iowa. Wind-board governor for threshing-machines. No. 920,753; May 4; Sp. p. 1331; Gaz. vol. 142; p. 216.  
 Klaber, J. J. (See Stimson, J. F., assignor.)  
 Klaczko, M., Riga, Russia. Type-writing machine. No. 913,215; Feb. 23; Sp. p. 4516; Gaz. vol. 139; p. 813.  
 Klahre, G. and H., Chicago, Ill. Anchor-bolt. No. 918,063; Apr. 13; Sp. p. 2245; Gaz. vol. 141; p. 403.  
 Klahre, H. (See Klahre, G. and H.)  
 Klahre, W. B., Johnstown, Pa. Fire-alarm system. No. 932,399; Aug. 24; Sp. p. 5838; Gaz. vol. 145; p. 997.  
 Klamath River Gold Mining Co. (See La Shells, W. S., assignor.)  
 Klasing, H. J., Rome, Ga. Draft device. No. 928,667; July 20; Sp. p. 4094; Gaz. vol. 144; p. 713.  
 Klasna, J. (See Kalas, Klasna, and Barabas.)  
 Klausner, M., Prague, Austria-Hungary. Submarine mine. No. 913,401; Feb. 23; Sp. p. 4892; Gaz. vol. 139; p. 877.  
 Klaus, J. L., and M. J. Gadiant, Davenport, Iowa. Portable hoist. No. 936,911; Oct. 12; Sp. p. 2727; Gaz. vol. 147; p. 455.  
 Klausman, E. (See Wolfram and Klausman.)  
 Kleber, W., Halle-on-the-Saale, assignor of one-half to B. Päsche, Treptow, near Berlin, Germany. Lathe and drilling chuck. No. 938,873; Nov. 2; Sp. p. 921; Gaz. vol. 148; p. 145.  
 Kleberg, A. J., Washington, D. C. Dental mirror and attachment therefor. No. 911,659; Feb. 9; Sp. p. 1272; Gaz. vol. 139; p. 238.  
 Kleffman, R. C., Hibbing, Minn. Combination-tool. No. 930,973; Aug. 10; Sp. p. 2796; Gaz. vol. 145; p. 474.  
 Kleidmann, J., assignor to Auto Paper Feeder Company, New York, N. Y. Paper-feeding machine. No. 911,132; Feb. 2; Sp. p. 207; Gaz. vol. 139; p. 39.  
 Kleidmann, J., assignor to Auto Paper Feeder Company, New York, N. Y. Feeding-machine attachment for printing-presses. No. 911,133; Feb. 2; Sp. p. 217; Gaz. vol. 139; p. 39.  
 Klein, A., New York, N. Y. Collapsible toy. No. 908,777; Jan. 5; Sp. p. 730; Gaz. vol. 138; p. 114.  
 Klein, A., assignor to Mitred Box Company, New York, N. Y. Grooving-machine. (Reissue.) No. 13,043; Nov. 23; Sp. p. 6401; Gaz. vol. 148; p. 1070.  
 Klein, C., Gottenborg, Sweden. Weft-replenishing mechanism for looms. No. 924,996; June 15; Sp. p. 4083; Gaz. vol. 143; p. 695.  
 Klein, C. J., assignor, by mesne assignments, to I. S. Rosenheim, New York, N. Y. Attachment-plug. No. 935,523; Sept. 28; Sp. p. 5131; Gaz. vol. 146; p. 902.  
 Klein, D., Spokane, Wash. Milking-machine. No. 924,997; June 15; Sp. p. 4085; Gaz. vol. 143; p. 695.  
 Klein, D., Spokane, Wash. Pneumatic engine. No. 926,260; June 29; Sp. p. 6654; Gaz. vol. 143; p. 1175.  
 Klein, E., Dresden, Germany. Device for folding and dividing strips of paper. No. 924,794; June 15; Sp. p. 3658; Gaz. vol. 143; p. 627.  
 Klein, E., Dresden, Germany, assignor to Carter-Crume Co. (Limited), Niagara Falls, N. Y. Web-folding mechanism. No. 940,933; Nov. 23; Sp. p. 5501; Gaz. vol. 148; p. 932.  
 Klein, J., Peru, Ill. Mail-clip. No. 933,311; Sept. 7; Sp. p. 628; Gaz. vol. 146; p. 98.  
 Klein, J., assignor of one-half to E. Stern, New York, N. Y. Waste-ferrule. No. 939,711; Nov. 9; Sp. p. 2785; Gaz. vol. 148; p. 460.  
 Klein, J. J., Eureka, S. D. Plow-lay holder. No. 935,524; Sept. 28; Sp. p. 5136; Gaz. vol. 146; p. 902.  
 Klein, J. J., assignor of one-half to C. R. Schumacher, New York, N. Y. Tracker-bar. No. 925,777; June 22; Sp. p. 5644; Gaz. vol. 143; p. 979.  
 Klein, O. (See Kaiser and Klein.)  
 Klein, O. G., Peoria, Ill. Churn. No. 927,358; July 6; Sp. p. 1313; Gaz. vol. 144; p. 218.  
 Klein, P. F., Marion, Iowa. Milking-machine. No. 925,196; June 15; Sp. p. 4467; Gaz. vol. 143; p. 762.  
 Klein, P. H., Jr., New York, N. Y., assignor to J. T. Phillips, Grand Rapids, Mich. Chime-clock. No. 928,388; July 20; Sp. p. 3520; Gaz. vol. 144; p. 622.  
 Klein, R. M., and D. R. Sperry, Madison, Wis., assignors to Northern Electrical Manufacturing Company. Motor-controlling device. No. 925,108; June 15; Sp. p. 4295; Gaz. vol. 143; p. 732.  
 Kleinberger, J., Brooklyn, and R. Stern, assignors to American Marine Lamp Mfg. Co., New York, N. Y. Wick-adjusting mechanism for lamps and lanterns. No. 944,967; Dec. 28; Sp. p. 6312; Gaz. vol. 149; p. 1084.  
 Kleine, J. W. (See Sirt and Kleine.)  
 Kleine, W. E., New York, N. Y. Bag or can carrier. No. 919,729; Apr. 27; Sp. p. 5937; Gaz. vol. 141; p. 1019.  
 Kleiner, H. (See Penning and Kleiner.)  
 Kleinert, R. S., New York, N. Y. Dress-shield. No. 939,712; Nov. 9; Sp. p. 2786; Gaz. vol. 148; p. 460.  
 Kleinfelder, J. A., Muscatine, Iowa. Steam-cooker. No. 930,389; Aug. 10; Sp. p. 1551; Gaz. vol. 145; p. 281.  
 Kleinfeldt, A., Hoboken, N. J., assignor of one-half to A. B. Perla, Brooklyn, N. Y. Pressure-regulator. No. 911,505; Feb. 2; Sp. p. 913; Gaz. vol. 139; p. 160.  
 Kleinfeldt, A., Hoboken, N. J., assignor to A. E. Schatz, Mount Vernon, N. Y., G. P. Kato, Jr., and C. W. Wenner, Jersey City, N. J. Siphon for dispensing liquids. No. 943,421; Dec. 14; Sp. p. 2968; Gaz. vol. 149; p. 501.  
 Kleinheinz, W. (See Schweida and Kleinheinz.)  
 Kleinman, A. (See Fraser, W. A., assignor.)  
 Kleinmann, L. (See Schwartz and Kleinmann.)  
 Kleinsmith, A. S., Oregon City, Oreg. Pruning appliance. No. 927,359; July 6; Sp. p. 1314; Gaz. vol. 144; p. 218.  
 Klemm, W., Portage, Pa. Junction-signal for mining-railways. No. 943,114; Dec. 14; Sp. p. 2347; Gaz. vol. 149; p. 398.  
 Klemm, E. R. (See Klemm, W. G., assignor.)  
 Klemm, E. R., Chicago, Ill. Friction clutch mechanism. No. 917,312; Apr. 6; Sp. p. 732; Gaz. vol. 141; p. 125.  
 Klemm, J. W., Mena, Ark., assignor of one-half to C. J. Cleborne, Norfolk, Va. Thread-cutter. No. 932,788; Aug. 31; Sp. p. 6705; Gaz. vol. 145; p. 1150.  
 Klemm, P., Gautzsch, and L. Schopper, Leipzig, Germany. Apparatus for testing paper-pulp. No. 910,002; Jan. 19; Sp. p. 3166; Gaz. vol. 138; p. 585.

*Alphabetical list of patentees—Continued.*

- Klemm, R., and M. Rorarius, Union Hill, N. J. Embroidering. No. 924,795; June 15; Sp. p. 3660; Gaz. vol. 143; p. 627.
- Klemm, W. G., assignor to E. R. Klemm, Chicago, Ill. Grinding-machine or the like. No. 915,298; Mar. 16; Sp. p. 3394; Gaz. vol. 140; p. 593.
- Klenk, G., Defiance, Ohio, assignor, by mesne assignments, to Defiance Pressed Steel Company. Metal box. No. 911,598; Feb. 9; Sp. p. 1123; Gaz. vol. 139; p. 217.
- Klenk, G., assignor to Defiance Pressed Steel Company, Defiance, Ohio. Storage and shipping crate. No. 912,273; Feb. 9; Sp. p. 2544; Gaz. vol. 139; p. 436.
- Klenk, G., and J. F. Fink, Defiance, Ohio, assignors, by mesne assignments, to Defiance Pressed Steel Company. Metal box. (Reissue.) No. 13,038; Nov. 9; Sp. p. 3327; Gaz. vol. 143; p. 550.
- Klenke, F. H., Ashton, Ill. Disk-sharpener. No. 939,713; Nov. 9; Sp. p. 2787; Gaz. vol. 148; p. 460.
- Klepetchko, F. (See Marcy, F. E., assignor.)
- Klepetchko, F. (See Repath, C. H., assignor.)
- Kleuser, C. H., Gainesville, Tex. Sewing-machine attachment. No. 935,794; Oct. 5; Sp. p. 402; Gaz. vol. 147; p. 59.
- Kleven Brothers. (See Kleven, K., assignor.)
- Kleven, K., Mount Horeb, Wis. Silo-door fastener. No. 921,122; May 11; Sp. p. 2095; Gaz. vol. 142; p. 369.
- Kleven, K., Mount Horeb, Wis. Silo-door and fastener. No. 927,550; July 13; Sp. p. 1734; Gaz. vol. 144; p. 310.
- Kleven, K., assignor to Kleven Brothers, Mount Horeb, Wis. Silo-door fastener. No. 910,392; Jan. 19; Sp. p. 4007; Gaz. vol. 138; p. 719.
- Klever, F. W., Cologne, Germany. Manufacture of lubricating and anticorrosive oils. No. 919,884; Apr. 27; Sp. p. 6276; Gaz. vol. 141; p. 1071.
- Klever, F. W., Solingen, Germany. Disjoinable pocket-knife. No. 924,796; June 15; Sp. p. 3661; Gaz. vol. 143; p. 627.
- Klevesahl, W. A. (See Mahone, C. R., assignor.)
- Klick, V. S., Columbus, Ohio. Churn. No. 929,229; July 27; Sp. p. 5231; Gaz. vol. 144; p. 926.
- Klie, E. (See Elkeles and Klie.)
- Klie, W., *et al.* (See Shaw, F. E., assignor.)
- Klie, W., Columbus, Ohio. Rule. No. 924,671; June 15; Sp. p. 3398; Gaz. vol. 143; p. 584.
- Klimowicz, P., and J. S. Worzala, Stevens Point, Wis. Mattress. No. 929,449; July 27; Sp. p. 5688; Gaz. vol. 144; p. 999.
- Klin, J. R. (See Rike and Klin.)
- Kline, C. F., Kutztown, Pa. Bicycle crank-hanger. No. 920,583; May 4; Sp. p. 990; Gaz. vol. 142; p. 161.
- Kline, D. C., assignor to Pritchard-Strong Company, Rochester, N. Y. Lantern-top. No. 928,260; July 20; Sp. p. 3256; Gaz. vol. 144; p. 578.
- Kline, G. D., *et al.* (See Alderman, D. W., assignor.)
- Kline, G. L., St. Louis, Mo. Pneumatic tire. No. 921,414; May 11; Sp. p. 2720; Gaz. vol. 142; p. 468.
- Kline, J. W., Terre Haute, Ind. Coupling for trolley-wires. No. 937,075; Oct. 19; Sp. p. 3060; Gaz. vol. 147; p. 538.
- Kline, R. M. (See Kline, R. W. and R. M.)
- Kline, R. W. and R. M., Atchison, Kans. Rug-hanger. No. 927,053; July 6; Sp. p. 743; Gaz. vol. 144; p. 118.
- Kline, V. K., Lititz, Pa. Short-turn running-gear. No. 917,457; Apr. 6; Sp. p. 990; Gaz. vol. 141; p. 172.
- Klineman, F. W., assignor of one-half to J. G. Boswell, Chicago, Ill. Spurious-coin detector for slot-machines. No. 911,247; Feb. 2; Sp. p. 448; Gaz. vol. 139; p. 77.
- Kling, A. H., Detroit, Mich. Electric switch and outlet box. No. 935,915; Oct. 5; Sp. p. 679; Gaz. vol. 147; p. 99.
- Kling, J., Rockford, Ill. Paring-knife. No. 935,761; Oct. 5; Sp. p. 296; Gaz. vol. 147; p. 47.
- Kling, P. M., Elizabeth, N. J. Cash-entry car. No. 934,818; Sept. 21; Sp. p. 3711; Gaz. vol. 146; p. 644.
- Kling, P. M., assignor to Pressed Steel Car Company, Pittsburg, Pa. Passenger-car. No. 928,983; July 27; Sp. p. 4716; Gaz. vol. 144; p. 846.
- Kling, P. M., assignor to Pressed Steel Car Company, Pittsburg, Pa. Passenger-car. No. 942,265; Dec. 7; Sp. p. 503; Gaz. vol. 149; p. 79.
- Klinge, H. E., Worcester, Mass. Back-comb fastener. No. 910,290; Jan. 19; Sp. p. 3803; Gaz. vol. 138; p. 685.
- Klingenberg, A. E., Granite City, Ill. Box. No. 941,323; Nov. 23; Sp. p. 6338; Gaz. vol. 148; p. 1060.
- Klinger, A., Chicago, Ill. Spraying device. No. 923,277; June 1; Sp. p. 390; Gaz. vol. 143; p. 54.
- Klingler, H., Sitterdorf, Switzerland. Resilient tire. (Reissue.) No. 13,028; Oct. 26; Sp. p. 6032; Gaz. vol. 147; p. 1018.
- Klinglesmith, S. (See Sutzer, Layman, and Klinglesmith.)
- Klingman, A. A. (See Gilbert, M. E., assignor.)
- Klink, A., Buffalo, N. Y. Toy. No. 938,874; Nov. 2; Sp. p. 922; Gaz. vol. 148; p. 145.
- Klink, C. E., and C. H. Herzog, Kingston, Pa. Milling-cutter-sharpening device. No. 916,452; Mar. 30; Sp. p. 5671; Gaz. vol. 140; p. 1026.
- Klinkhammer, P. (See Hogan, J. T., assignor.)
- Klinkmann, E. (See Dicke and Klinkmann.)
- Klmpfel, T., assignor to Union Wire Mattress Company, Chicago, Ill. Spring bed-bottom. No. 927,982; July 13; Sp. p. 2663; Gaz. vol. 144; p. 453.
- Klitsch, L., and O. W. Thogode, Brooklyn, N. Y. Hedge-trimmer. No. 914,731; Mar. 9; Sp. p. 2275; Gaz. vol. 140; p. 381.
- Klocke, W., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Drawing-press. No. 924,672; June 15; Sp. p. 3399; Gaz. vol. 143; p. 585.
- Klocke, W., assignor to E. W. Bliss Company, Brooklyn, N. Y. Press. No. 928,609; July 20; Sp. p. 3972; Gaz. vol. 144; p. 693.
- Klocke, W., assignor to E. W. Bliss Company, Brooklyn, N. Y. Manufacture of metal lathing. No. 928,610; July 20; Sp. p. 3974; Gaz. vol. 144; p. 694.
- Klocke, W., assignor to E. W. Bliss Company, Brooklyn, N. Y. Manufacturing metal lathing. No. 928,917; July 20; Sp. p. 4584; Gaz. vol. 144; p. 798.
- Klocke, W., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press. No. 930,602; Aug. 10; Sp. p. 2016; Gaz. vol. 145; p. 353.
- Kloeb, W. R., Hamilton, assignor of one-half to T. Nieman, St. Bernard, Ohio. Jacket-radiator. No. 921,259; May 11; Sp. p. 2379; Gaz. vol. 142; p. 417.
- Kloeking, F., German steamship *Eva*. Apparatus for cleaning ships' bottoms. No. 918,751; Apr. 20; Sp. p. 3724; Gaz. vol. 141; p. 660.
- Kloer, J. H., and D. B. Leavell, Los Angeles, Cal. Governor for air-compressors. No. 934,323; Sept. 14; Sp. p. 2731; Gaz. vol. 146; p. 454.
- Klofanda, A. J., Jr., *et al.* (See Rose, C. A., assignor.)
- Kloke, F. W., Westpoint, Neb. Draft-bar for farm machinery. No. 925,197; June 15; Sp. p. 4470; Gaz. vol. 143; p. 763.
- Klopf, C., Atchison, Kans. Combined body-brace and suspenders. No. 919,885; Apr. 27; Sp. p. 6277; Gaz. vol. 141; p. 1071.
- Klopf, F. A., Leubnitz, near Dresden, Germany. Obtaining starch and gluten from wheat flour. No. 929,861; Aug. 3; Sp. p. 507; Gaz. vol. 145; p. 82.
- Klos, J. E., *et al.* (See Baker, C. L., assignor.)
- Klotz & Co., H. & G. (See Utard and Gimonet, assignors.)
- Klotz, W. N., assignor to Canton Culvert Company, Canton, Ohio. Sheet-metal culvert-pipe. No. 934,673; Sept. 21; Sp. p. 3420; Gaz. vol. 146; p. 597.
- Klotzbuecher, J., Denver, Colo. Packing compound. No. 916,719; Mar. 30; Sp. p. 6202; Gaz. vol. 140; p. 1111.
- Klouse, W., and C. H. Brockett, Columbus, Ohio. Magnetic drill-frame. No. 919,597; Apr. 27; Sp. p. 5676; Gaz. vol. 141; p. 976.
- Klucken, R., West Somerville, Mass. Ink-distributing device for printing-presses. No. 910,691; Jan. 26; Sp. p. 4631; Gaz. vol. 138; p. 842.
- Klug, A. A., Merrill, Wis. Truss. No. 943,685; Dec. 21; Sp. p. 3572; Gaz. vol. 149; p. 622.
- Klug, A. H., Milwaukee, Wis. Cabinet. No. 926,946; July 6; Sp. p. 497; Gaz. vol. 144; p. 81.
- Kluge, A. C. (See Gaynor, J. C., assignor.)
- Kluger, D. (See Senn and Kluger.)
- Klugh, P. B., assignor to Cable Company, Chicago, Ill. Bellows-chest. No. 914,351; Mar. 2; Sp. p. 1480; Gaz. vol. 140; p. 230.
- Klugh, P. B., assignor to Cable Company, Chicago, Ill. Pneumatic musical instrument. No. 942,915; Dec. 14; Sp. p. 1895; Gaz. vol. 149; p. 331.
- Klum, B., Medford, Oreg. Advertising hat-rack. No. 938,591; Nov. 2; Sp. p. 339; Gaz. vol. 148; p. 50.
- Klumph, G. H., and E. M. Bassler, Chicago, Ill. Heater. No. 919,362; Apr. 27; Sp. p. 5155; Gaz. vol. 141; p. 894.
- Klump, A. (See Lietzenmayer, O., assignor.)
- Klusmeyer, J., Buffalo, N. Y. Railway tie. No. 919,886; Apr. 27; Sp. p. 6279; Gaz. vol. 141; p. 1072.
- Kluting, H. N., assignor of one-half to H. A. Coleman, Palmyra, Ill. Combined punching and shearing machine. No. 925,348; June 15; Sp. p. 4737; Gaz. vol. 143; p. 808.
- Knaack, G. E. (See Carrington, A. R., assignor.)
- Knaak, T. H., Coleridge, Neb. Breeder's cage. No. 928,463; July 20; Sp. p. 3676; Gaz. vol. 144; p. 646.
- Knaab, O. E., Cincinnati, Ohio. Bush-hammer. No. 915,299; Mar. 16; Sp. p. 3397; Gaz. vol. 140; p. 593.
- Knap, J., Grand Rapids, Mich. Adjustable bracket. No. 941,682; Nov. 30; Sp. p. 7103; Gaz. vol. 148; p. 1201.
- Knapen, A., Brussels, Belgium. Means for drying structural parts. No. 915,969; Mar. 23; Sp. p. 4753; Gaz. vol. 140; p. 841.
- Knapen, A., Brussels, Belgium. Means for preserving structural parts. No. 931,318; Aug. 17; Sp. p. 3599; Gaz. vol. 145; p. 621.
- Knapke, I., and M. Lange, Selma, Oreg. Fire-escape. No. 925,922; June 22; Sp. p. 5945; Gaz. vol. 143; p. 1026.
- Knapp, A. S., Cooperstown, N. Y. Scuffle-hoe. No. 935,116; Sept. 28; Sp. p. 4322; Gaz. vol. 146; p. 771.
- Knapp, B. J., Evansville, Ind. Nose-glasses. No. 925,921; June 22; Sp. p. 5944; Gaz. vol. 143; p. 1026.
- Knapp, B. J., Evansville, Ind. Nose-glasses. No. 930,076; Aug. 3; Sp. p. 953; Gaz. vol. 145; p. 154.
- Knapp, C. E., New York, N. Y. Porous rug-holder. No. 922,703; May 25; Sp. p. 5371; Gaz. vol. 142; p. 947.



*Alphabetical list of patentees—Continued.*

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- Knapp, D. R., and I. S. Schlesinger, Philadelphia, Pa. Arc-lamp. No. 928,464; July 20; Sp. p. 3678; Gaz. vol. 144; p. 647.
- Knapp, F. A., Newark, N. J. Water-heater. No. 928,261; July 20; Sp. p. 3257; Gaz. vol. 144; p. 578.
- Knapp, F. G., Pottstown, Pa. Pencil-holder. No. 937,815; Oct. 26; Sp. p. 4619; Gaz. vol. 147; p. 800.
- Knapp, G. W., assignor to National Enameling and Stamping Company, Baltimore, Md. Handle-socket for dippers. No. 914,352; Mar. 2; Sp. p. 1482; Gaz. vol. 140; p. 230.
- Knapp, G. W., Baltimore, Md., assignor to National Enameling and Stamping Company. Hinge for lids of teapots and other vessels. No. 921,614; May 11; Sp. p. 3122; Gaz. vol. 142; p. 534.
- Knapp-Greenwood Company. (See Knapp, W. B., assignor.)
- Knapp, J. H., *et al.* (See Hibbard, L. R., assignor.)
- Knapp, L. H., assignor of one-third to W. E. Jenkinson, Syracuse, N. Y. Guy-rope-cable clamp. No. 919,026; Apr. 20; Sp. p. 4296; Gaz. vol. 141; p. 751.
- Knapp, M., *et al.* (See Heckert, W., assignor.)
- Knapp, M., *et al.* (See Knapp, W. D., assignor.)
- Knapp, T. L., and C. C. Harling, Woodstock, assignors to Oliver Typewriter Company, Chicago, Ill. Column-stop mechanism for typewriters. No. 916,720; Mar. 30; Sp. p. 6202; Gaz. vol. 140; p. 1111.
- Knapp, W. B., Stoneham, assignor to Knapp-Greenwood Company, Boston, Mass. Shock-absorber. No. 935,525; Sept. 28; Sp. p. 5138; Gaz. vol. 146; p. 902.
- Knapp, W. D., assignor of one-third to M. Knapp and one-third to G. N. Bacigalupi, Santa Rosa, Cal. Spraying-machine. No. 933,039; Aug. 31; Sp. p. 7180; Gaz. vol. 145; p. 1232.
- Knapp, W. H., Evanston, Ill. Device for closing swinging doors. No. 942,568; Dec. 7; Sp. p. 1124; Gaz. vol. 149; p. 183.
- Knapp, W. H., assignor of one-half to W. H. McKenzie, Fresno, Cal. Raisin-seeding machine. No. 940,327; Nov. 16; Sp. p. 4176; Gaz. vol. 148; p. 704.
- Knappich, J., Augsburg, Germany. Welding-burner. No. 943,882; Dec. 21; Sp. p. 3970; Gaz. vol. 149; p. 690.
- Knaster, L., Hoboken, N. J. Safety-razor. No. 935,032; Sept. 28; Sp. p. 4133; Gaz. vol. 146; p. 741.
- Knauf, P. W., assignor to Schutte and Koerting Company, Philadelphia, Pa. Valve. No. 938,491; Nov. 2; Sp. p. 101; Gaz. vol. 148; p. 15.
- Knaur, A. L. (See Rice, H. C., assignor.)
- Knause, J. W., Colonia, N. J. Shoe-lace fastener. No. 912,690; Feb. 16; Sp. p. 3453; Gaz. vol. 139; p. 616.
- Knauss, C. C., assignor to Tubular Heating & Ventilating Company, Philadelphia, Pa. Ventilator. No. 911,541; Feb. 2; Sp. p. 984; Gaz. vol. 139; p. 171.
- Knauss, C. C., assignor to Tubular Heating & Ventilating Company, Philadelphia, Pa. Hot-air furnace. No. 916,329; Mar. 23; Sp. p. 5403; Gaz. vol. 140; p. 960.
- Knauss, F. V., Portsmouth, Ohio. Furnace. No. 923,976; June 8; Sp. p. 1936; Gaz. vol. 143; p. 322.
- Kneale, W. C., Indianapolis, Ind., assignor to National Malleable Castings Company, Cleveland, Ohio. Freight-car-door lock. No. 935,526; Sept. 28; Sp. p. 5140; Gaz. vol. 146; p. 903.
- Kneas, F. N., Norristown, Pa. Hanger-socket for reinforced concrete. No. 923,188; June 1; Sp. p. 142; Gaz. vol. 143; p. 24.
- Knebel, R., Rockville, Conn. Dressing-machine reel. No. 940,603; Nov. 16; Sp. p. 4782; Gaz. vol. 148; p. 796.
- Knecht, C. H., Akron, Ohio. Vehicle-tire. No. 935,033; Sept. 28; Sp. p. 4134; Gaz. vol. 146; p. 741.
- Knecht, I. A., Nazareth, Pa. Tube-mill for cement, stones, and the like. No. 927,054; July 6; Sp. p. 745; Gaz. vol. 144; p. 118.
- Knecht, J. J., Chemnitz, Germany. Variable-transmission gear. No. 935,034; Sept. 28; Sp. p. 4135; Gaz. vol. 146; p. 741.
- Knecht, V. E., Cincinnati, Ohio. Molding-machine. No. 939,032; Nov. 2; Sp. p. 1255; Gaz. vol. 148; p. 202.
- Kneeder, J. D., assignor of one-half to B. Couch, Sioux City, Iowa. Lock. No. 917,615; Apr. 6; Sp. p. 1268; Gaz. vol. 141; p. 224.
- Kneeder, J. D., and J. C. McGarr, Sioux City, Iowa. Road-bed equipment. No. 919,183; Apr. 20; Sp. p. 4585; Gaz. vol. 141; p. 800.
- Kneen, J., Oakland, Cal. Valve for water-closet-disinfecting devices. No. 939,424; Nov. 9; Sp. p. 2179; Gaz. vol. 148; p. 362.
- Kneisley, R. M., Carrollton, Mo. Clothes-line reel. No. 930,390; Aug. 10; Sp. p. 1553; Gaz. vol. 145; p. 281.
- Kneisley, R. M., Carrollton, Mo. Clothes-line reel and tightener. No. 926,576; June 29; Sp. p. 7232; Gaz. vol. 143; p. 1278.
- Kneisley, R. M., Carrollton, Mo. Clothes-line reel and tightener. No. 939,033; Nov. 2; Sp. p. 1260; Gaz. vol. 148; p. 202.
- Knell, A., Jr. (See Hooper and Bratt, assignors.)
- Knerr, D. F., Newark, Ohio. Automatic air-brake retaining and release valve. No. 943,602; Dec. 14; Sp. p. 3346; Gaz. vol. 149; p. 564.
- Knetsch, F. Jr. (See Hogan and Knetsch.)
- Kneuper, G. M., New York, N. Y. Filter-cell. No. 934,076; Sept. 14; Sp. p. 2252; Gaz. vol. 146; p. 371.
- Knickerbocker, C. E., Middletown, N. Y. Water-heating system and regulator therefor. No. 932,615; Aug. 31; Sp. p. 6339; Gaz. vol. 145; p. 1093.
- Knickerbocker, J. B., Indianapolis, Ind. Carbureter. No. 924,673; June 15; Sp. p. 3401; Gaz. vol. 143; p. 585.
- Knickerbocker, J. H., Logansport, Ind. Fence post and wire fastener. No. 913,402; Feb. 23; Sp. p. 4895; Gaz. vol. 139; p. 878.
- Knickerbocker, M. J. (See Alexander and Knickerbocker.)
- Knierper, W., assignor of one-half to E. Hammer, Berlin, Germany. Horseshoe. No. 925,198; June 15; Sp. p. 4472; Gaz. vol. 143; p. 763.
- Kniffen, E. R. (See Shank, A. W., assignor.)
- Kniffen, L., Chicago, Ill. Potato-harvester. No. 922,915; May 25; Sp. p. 5821; Gaz. vol. 142; p. 1015.
- Knight, A. B., Fairmont, W. Va. Glass-etching machine. No. 912,386; Feb. 16; Sp. p. 2810; Gaz. vol. 139; p. 512.
- Knight, A. B., Fairmont, W. Va. Glass-etching machine. No. 941,883; Nov. 30; Sp. p. 7556; Gaz. vol. 148; p. 1272.
- Knight, A. B., Fairmont, W. Va., assignor to Monongah Glass Company. Chuck for grinding stem-ware. No. 936,912; Oct. 12; Sp. p. 2731; Gaz. vol. 147; p. 456.
- Knight, A. F. (See Hall and Knight.)
- Knight, A. H., *et al.* (See Wheildon, W. M., assignor.)
- Knight, A. H., Cleveland, Ohio. Drill-holder. No. 935,035; Sept. 28; Sp. p. 4139; Gaz. vol. 146; p. 742.
- Knight, C. D., Schenectady, N. Y., assignor to General Electric Company. Starting device for electric motors. No. 913,512; Feb. 23; Sp. p. 5114; Gaz. vol. 139; p. 913.
- Knight, C. D., Schenectady, N. Y., assignor to General Electric Company. Controlling device for electric motors. No. 930,603; Aug. 10; Sp. p. 2019; Gaz. vol. 145; p. 354.
- Knight, C. D., Schenectady, N. Y., assignor to General Electric Company. Motor-controlling device. No. 940,164; Nov. 16; Sp. p. 3799; Gaz. vol. 148; p. 647.
- Knight, C. D., Schenectady, and W. O. Lum, Amsterdam, N. Y. Temperature-regulating system. No. 932,711; Aug. 31; Sp. p. 6528; Gaz. vol. 145; p. 1125.
- Knight, C. Y., Boston, assignor to Power & Speed Controller Company, Watertown, Mass. Machine for making screws, &c. No. 914,353; Mar. 2; Sp. p. 1482; Gaz. vol. 140; p. 231.
- Knight, E. R., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Brush for dynamo-electric machines. No. 932,616; Aug. 31; Sp. p. 6341; Gaz. vol. 145; p. 1094.
- Knight, E. R., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Brush-holder. No. 940,393; Nov. 16; Sp. p. 4346; Gaz. vol. 148; p. 728.
- Knight, F. H., Washington, D. C. Carbureter. No. 937,536; Oct. 19; Sp. p. 4064; Gaz. vol. 147; p. 691.
- Knight, G., Brockton, Mass. Eyeletting-machine. No. 909,095; Jan. 5; Sp. p. 1354; Gaz. vol. 138; p. 217.
- Knight, G. W., assignor to Draper Company, Hopedale, Mass. Bobbin-clutching means for rotatable spindles. No. 923,126; May 25; Sp. p. 6265; Gaz. vol. 142; p. 1083.
- Knight, J. E., Bellingham, Wash. Spark-arrester. No. 909,610; Jan. 12; Sp. p. 2374; Gaz. vol. 138; p. 421.
- Knight, J. H., Winston Salem, N. C. Mail-bag catcher and deliverer. No. 909,611; Jan. 12; Sp. p. 2375; Gaz. vol. 138; p. 422.
- Knight, J. J., Alameda, Cal. Grinding and pulverizing mill. No. 929,956; Aug. 3; Sp. p. 709; Gaz. vol. 145; p. 113.
- Knight, T., Atlanta, Ga. Lock. No. 916,878; Mar. 30; Sp. p. 6491; Gaz. vol. 140; p. 1159.
- Knight, W. A., Madisonville, Ohio, assignor to Federal Canning Machinery Company, Indianapolis, Ind. Filler. No. 925,109; June 15; Sp. p. 4298; Gaz. vol. 143; p. 732.
- Knight, W. C. (See Bates, Knight, and Gast.)
- Knight, W. J. (See Johnson, E. S., assignor.)
- Knight, W. M. (See Flemister, E. T., assignor.)
- Knight, H. W., *et al.* (See Gilson, H. R., assignor.)
- Knipe, O. C., Norristown, assignor to A. S. Lewis, Philadelphia, Pa. Antifriction journal-bearing. No. 922,154; May 18; Sp. p. 4231; Gaz. vol. 142; p. 739.
- Knipe, O. C., Norristown, assignor to A. S. Lewis, Philadelphia, Pa. Shaft or journal lubricator. No. 922,155; May 18; Sp. p. 4232; Gaz. vol. 142; p. 739.
- Knobbs, C. H., Elizabeth, assignor of one-third to I. R. Nelson, Newark, N. J. Brake-hanger. No. 916,453; Mar. 30; Sp. p. 5674; Gaz. vol. 140; p. 1026.
- Knobel, A. (See Dutschke, J. G., assignor.)
- Knobel, A., assignor to J. V. Reed, Louisville, Ky. Printing-press. No. 916,562; Mar. 30; Sp. p. 5919; Gaz. vol. 140; p. 1062.

*Alphabetical list of patentees—Continued.*

- Knobel, A., assignor to G. T. Holly, Louisville, Ky. Cloth measuring, winding, and rewinding machine. No. 924,998; June 15; Sp. p. 4091; Gaz. vol. 143; p. 696.
- Knobelsdorf, E. W., Cleveland, Ohio. Centering device for lathes. No. 930,077; Aug. 3; Sp. p. 954; Gaz. vol. 145; p. 155.
- Knoble, W. A., Apple Creek, Ohio. Fodder-tie. No. 925,484; June 22; Sp. p. 5002; Gaz. vol. 143; p. 883.
- Knobloch, W. H., Erie, Pa. Waste-basket. No. 908,579; Jan. 5; Sp. p. 306; Gaz. vol. 138; p. 52.
- Knoblock, G. A., South Bend, Ind. Seeder. No. 938,492; Nov. 2; Sp. p. 103; Gaz. vol. 148; p. 149.
- Knoblock, H. F., Pittsburg, Pa. Toaster. No. 943,555; Dec. 14; Sp. p. 3258; Gaz. vol. 149; p. 549.
- Knoblock, O. M., South Bend, Ind. Electric switch. No. 940,328; Nov. 16; Sp. p. 4177; Gaz. vol. 148; p. 705.
- Knoche, C. A. (See Ferguson and Knoche.)
- Knock Down Case Company. (See Fessler, C., assignor.)
- Knock, G., Cleveland, Ohio. Packing filters. No. 918,867; Apr. 20; Sp. p. 3975; Gaz. vol. 141; p. 698.
- Knoepfel, E. G., San Francisco, Cal. Apparatus for treating gases and separating smoke and dust therefrom. No. 943,422; Dec. 14; Sp. p. 2972; Gaz. vol. 149; p. 501.
- Knoll, A., Daysland, Alberta, Canada. Spirit-level. No. 931,769; Aug. 24; Sp. p. 4549; Gaz. vol. 145; p. 790.
- Knoll and Company, Firm of. (See Saam, E., assignor.)
- Knoll and Company, Firm of. (See Tambach, R., assignor.)
- Knoll, J. H., Reading, Pa. Washing-machine. No. 928,984; July 27; Sp. p. 4717; Gaz. vol. 144; p. 846.
- Knoll, W. J., assignor to H. B. Rouse & Company, Chicago, Ill. Printing-plate holder. No. 913,736; Mar. 2; Sp. p. 117; Gaz. vol. 140; p. 21.
- Knopf, C., Richmond, Ind. Railway-rail fastening. No. 924,908; June 15; Sp. p. 3897; Gaz. vol. 143; p. 664.
- Knopf, C., New York, assignor to Hicks Speed Indicator Company, Brooklyn, N. Y. Speed-indicator. No. 933,467; Sept. 7; Sp. p. 990; Gaz. vol. 146; p. 149.
- Knopf, S., Vienna, Austria-Hungary. Producing a mineral-oil emulsion. No. 941,785; Nov. 30; Sp. p. 7340; Gaz. vol. 148; p. 1237.
- Knopke, E. T., von, Greensboro, N. C. Delivery apparatus. No. 938,062; Oct. 26; Sp. p. 5145; Gaz. vol. 147; p. 883.
- Knorr, H. F., Rochester, N. Y. Ironing-board. No. 922,487; May 25; Sp. p. 4913; Gaz. vol. 142; p. 876.
- Knos, H. A., Bellevue, Ohio. Dust-collector. No. 909,425; Jan. 12; Sp. p. 2010; Gaz. vol. 138; p. 357.
- Knothe, F. F., Ridgewood, N. J. Hose-supporter. No. 913,294; Feb. 23; Sp. p. 4681; Gaz. vol. 139; p. 840.
- Knott, F., Phoenix, British Columbia, Canada. Dumping-car. No. 917,313; Apr. 6; Sp. p. 735; Gaz. vol. 141; p. 125.
- Knott, T. H., Lebanon, S. D. Wrench. No. 933,649; Sept. 7; Sp. p. 1387; Gaz. vol. 146; p. 209.
- Knouff, C. W. (See Baylor and Knouff.)
- Knous, F. F., assignor to Winchester Repeating Arms Co., New Haven, Conn. Automatic firearm. No. 933,254; Sept. 7; Sp. p. 517; Gaz. vol. 146; p. 79.
- Knowles, A. M. (See Hopkins, E. L., assignor.)
- Knowles, C. S. (See Keefe, J., assignor.)
- Knowles, E., Providence, R. I. Tire of vehicles. No. 910,134; Jan. 19; Sp. p. 3426; Gaz. vol. 138; p. 628.
- Knowles, J., New Britain, Conn. Ratchet-wrench. No. 936,640; Oct. 12; Sp. p. 2199; Gaz. vol. 147; p. 363.
- Knowles, L. J., Tacoma, Wash. Combined shoulder and body brace and hose-supporter. No. 915,191; Mar. 16; Sp. p. 3199; Gaz. vol. 140; p. 559.
- Knowles, M. H., *et al.* (See Jackson, G. A., assignor.)
- Knowles, W. (See Marshall, Metcalfe, and Knowles.)
- Knowles, W., Marietta, Pa. Flier. No. 909,426; Jan. 12; Sp. p. 2012; Gaz. vol. 138; p. 358.
- Knowlson, F. (See Irwin and Knowlson.)
- Knowlton, A. B., Columbia, S. C. Safety-envelope. No. 910,692; Jan. 26; Sp. p. 4633; Gaz. vol. 138; p. 842.
- Knowlton, D. E. (See Fillmore, E. R., assignor.)
- Knox, C. M., 2d, *et al.* (See Rulison, W., assignor.)
- Knox, D. M. (See Knox, W. J., assignor.)
- Knox, F. J. (See King, H. B., assignor.)
- Knox, H., Livingston, Tex. Lifting-frame. No. 920,754; May 4; Sp. p. 1333; Gaz. vol. 142; p. 216.
- Knox, J. E., *et al.* (See Rulison, W., assignor.)
- Knox, L. L., Pittsburg, Pa. Furnace-door frame. No. 910,924; Jan. 26; Sp. p. 5082; Gaz. vol. 138; p. 916.
- Knox, L. L., Ben Avon, Pa. Furnace-door frame. No. 910,925; Jan. 26; Sp. p. 5084; Gaz. vol. 138; p. 916.
- Knox, L. L., Ben Avon, Pa. Guard or fender for furnace-door frames. No. 910,926; Jan. 26; Sp. p. 5086; Gaz. vol. 138; p. 917.
- Knox, L. L., assignor to Keystone Furnace Construction Company, Pittsburg, Pa. Means for cooling furnace-walls. No. 919,190; Apr. 20; Sp. p. 4601; Gaz. vol. 141; p. 803.
- Knox, L. L., Ben Avon, assignor to Keystone Furnace Construction Company, Pittsburg, Pa. Furnace. No. 919,027; Apr. 20; Sp. p. 4297; Gaz. vol. 141; p. 751.
- Knox, L. L., Ben Avon, assignor to Keystone Furnace Construction Company, Pittsburg, Pa. Regenerative reversing furnace. No. 919,185; Apr. 20; Sp. p. 4589; Gaz. vol. 141; p. 801.
- Knox, L. L., Ben Avon, assignor to Keystone Furnace Construction Company, Pittsburg, Pa. Furnace. No. 919,186; Apr. 20; Sp. p. 4591; Gaz. vol. 141; p. 801.
- Knox, L. L., Ben Avon, assignor to Keystone Furnace Construction Company, Pittsburg, Pa. Furnace. No. 919,187; Apr. 20; Sp. p. 4594; Gaz. vol. 141; p. 802.
- Knox, L. L., Ben Avon, assignor to Keystone Furnace Construction Company, Pittsburg, Pa. Furnace. No. 919,189; Apr. 20; Sp. p. 4598; Gaz. vol. 141; p. 802.
- Knox, L. L., Ben Avon, assignor to Keystone Furnace Construction Company, Pittsburg, Pa. Regenerative reversing-furnace. No. 938,246; Oct. 26; Sp. p. 5544; Gaz. vol. 147; p. 947.
- Knox, L. L., Ben Avon, assignor to Keystone Furnace Construction Company, Pittsburg, Pa. Regenerative reversing-furnace. No. 938,426; Oct. 26; Sp. p. 5545; Gaz. vol. 147; p. 1008.
- Knox, L. L., Ben Avon, and M. Murray, Wilksburg, assignors to Keystone Furnace Construction Company, Pittsburg, Pa. Open-hearth furnace. No. 919,184; Apr. 20; Sp. p. 4586; Gaz. vol. 141; p. 800.
- Knox, L. L., Ben Avon, and M. Murray, Wilksburg, assignors to Keystone Furnace Construction Company, Pittsburg, Pa. Furnace. No. 919,188; Apr. 20; Sp. p. 4597; Gaz. vol. 141; p. 802.
- Knox, L. L., Ben Avon, and M. Murray, Wilksburg, assignors to Keystone Furnace Construction Company, Pittsburg, Pa. Open-hearth furnace. No. 938,245; Oct. 26; Sp. p. 5540; Gaz. vol. 147; p. 947.
- Knox Metal Wheel Company. (See Murray, J. W., assignor.)
- Knox, R. M., executrix, *et al.* (See Rulison, W., assignor.)
- Knox, W. J., Dubois, Pa., assignor of one-fourth to D. M. Knox, Denver, Colo. Joint-packing. No. 911,822; Feb. 9; Sp. p. 1565; Gaz. vol. 139; p. 291.
- Knudsen, A. M., Chicago, Ill., and K. Knudsen, Grand Rapids, Mich. Telautograph. No. 920,966; May 11; Sp. p. 1779; Gaz. vol. 142; p. 316.
- Knudsen, C. B. (See Stark, M. J., Jr., assignor.)
- Knudsen, H., Madison, Wis. Gas-stove attachment. No. 928,770; July 20; Sp. p. 4285; Gaz. vol. 144; p. 747.
- Knudsen, J. B., Chicago, Ill. Coil-spring. No. 917,770; Apr. 13; Sp. p. 1624; Gaz. vol. 141; p. 302.
- Knudsen, J. B., Chicago, Ill. Valve. No. 932,400; Aug. 24; Sp. p. 5840; Gaz. vol. 145; p. 997.
- Knudsen, K. (See Knudsen, A. M. and K.)
- Knudsen, P. E. (See Chapman, L., assignor.)
- Knup, J., Paterson, N. J., assignor to Hellwig Silk Dyeing Company. Silk product and treatment of silk. No. 931,433; Aug. 17; Sp. p. 3831; Gaz. vol. 145; p. 661.
- Knuth, N., Chicago, Ill. Collapsible trousers-support. No. 917,314; Apr. 6; Sp. p. 736; Gaz. vol. 141; p. 126.
- Knutson, O., Stockholm, Sweden. Cupboard and bed combined. No. 926,988; July 6; Sp. p. 577; Gaz. vol. 144; p. 95.
- Knutson, P. M., assignor of one-half to H. Kram, Clifford, N. D. Sleigh attachment for automobiles. No. 942,082; Dec. 7; Sp. p. 94; Gaz. vol. 149; p. 16.
- Knutsson, K. E., *et al.* (See Faust, L., assignor.)
- Koage, A., Pine River, Wis. Automatic coupling. No. 937,537; Oct. 19; Sp. p. 4069; Gaz. vol. 147; p. 691.
- Koage, A. W., Pine River, Wis. Corn-planer and marker. No. 942,394; Dec. 7; Sp. p. 749; Gaz. vol. 149; p. 122.
- Kobbe, P. F., Jr. (See Brown, J. R., assignor.)
- Kobelanz, J. H., Springfield, Ohio. Hay-rake. No. 937,076; Oct. 19; Sp. p. 3061; Gaz. vol. 147; p. 538.
- Kobert, F. P., New York, N. Y. Railway-spike. No. 938,875; Nov. 2; Sp. p. 924; Gaz. vol. 148; p. 146.
- Kobler, F., Chihuahua, Mexico. Turn-table. No. 915,360; Mar. 16; Sp. p. 3513; Gaz. vol. 140; p. 613.
- Kobler, F., Chihuahua, Mexico. Duplex gage-cock. No. 915,361; Mar. 16; Sp. p. 3514; Gaz. vol. 140; p. 613.
- Kobus, J., Bridgeport, Conn. Non-leaking valve. No. 922,294; May 18; Sp. p. 4516; Gaz. vol. 142; p. 784.
- Koch, A., Hanover-List, Germany. Smelting-furnace. No. 915,192; Mar. 16; Sp. p. 3201; Gaz. vol. 140; p. 559.
- Koch, A., Hanover-List, Germany. Liquid-fuel burner. No. 940,813; Nov. 23; Sp. p. 5258; Gaz. vol. 148; p. 892.



*Alphabetical list of patentees—Continued.*

- Koch, A. S., Lancaster, Pa. Staking-tool. No. 926,123; June 29; Sp. p. 6351; Gaz. vol. 143; p. 1128.
- Koch, F., *et al.* (See Soblik, P., assignor.)
- Koch, F., St. Paul, Minn. Wall construction. No. 920,967; May 11; Sp. p. 1785; Gaz. vol. 142; p. 317.
- Koch, F., Bellevue, assignor to Pressed Steel Car Company, Pittsburg, Pa. Passenger-car. No. 921,848; May 18; Sp. p. 3634; Gaz. vol. 142; p. 640.
- Koch, F., Bellevue, assignor to Pressed Steel Car Company, Pittsburg, Pa. Passenger-car. No. 922,782; May 25; Sp. p. 5529; Gaz. vol. 142; p. 972.
- Koch, F., Bellevue, assignor to Pressed Steel Car Company, Pittsburg, Pa. Passenger-car. No. 928,985; July 27; Sp. p. 4718; Gaz. vol. 144; p. 847.
- Koch, F., Bellevue, assignor to Pressed Steel Car Company, Pittsburg, Pa. Reinforcing-plate for railway-car center and end sills. No. 930,391; Aug. 10; Sp. p. 1554; Gaz. vol. 145; p. 281.
- Koch, F., Bellevue, assignor to Pressed Steel Car Company, Pittsburg, Pa. Bolster construction for car-underframes. No. 938,770; Nov. 2; Sp. p. 684; Gaz. vol. 148; p. 110.
- Koch, F. W., and J. H. Mayforth, New York, N. Y. Lantern. No. 922,598; May 25; Sp. p. 5149; Gaz. vol. 142; p. 913.
- Koch, G. A. W., Paris, France. Ball-bearing. No. 942,392; Dec. 7; Sp. p. 746; Gaz. vol. 149; p. 122.
- Koch, G. W. (See Koch, L. J. and G. W.)
- Koch, G. W., Philadelphia, Pa. Bottle-washing machine. No. 935,261; Sept. 28; Sp. p. 4593; Gaz. vol. 146; p. 817.
- Koch, H., assignor to Regina Company, Rahway, N. J. Coin-controlled mechanism. No. 918,165; Apr. 13; Sp. p. 2441; Gaz. vol. 141; p. 437.
- Koch, L. J. and G. W., Evansville, Ind. Door-hood. No. 910,393; Jan. 19; Sp. p. 4009; Gaz. vol. 138; p. 720.
- Koch, M. (See Koch, M. F. and M.)
- Koch, M. F. and M., New York, N. Y. Combined table and lamp-stand. No. 926,426; June 29; Sp. p. 6975; Gaz. vol. 143; p. 1228.
- Koch, N., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun-carriage. No. 912,135; Feb. 9; Sp. p. 2266; Gaz. vol. 139; p. 392.
- Koch, N., and G. Hayn, Essen-on-the-Ruhr, Germany. Barrel-recoil gun. No. 913,403; Feb. 23; Sp. p. 4897; Gaz. vol. 139; p. 878.
- Koch, R. J., assignor of one-half to J. W. Hesse, New York, N. Y. Trestle. No. 934,736; Sept. 21; Sp. p. 3543; Gaz. vol. 146; p. 617.
- Koch, W. A., Ringtown, Pa. Swingletree attachment. No. 934,189; Sept. 14; Sp. p. 2484; Gaz. vol. 146; p. 410.
- Koch, W. E., Whitehall, N. Y. Fish-hook. No. 940,465; Nov. 16; Sp. p. 4494; Gaz. vol. 148; p. 751.
- Kochenthal, A., A. W. Mock, and A. Jacobi, Rochester, N. Y. Cigarette or cigar box. No. 911,248; Feb. 2; Sp. p. 452; Gaz. vol. 139; p. 77.
- Kocsis, P., assignor of one-half to M. Madara, Duquesne, Pa. Flagstaff. No. 944,269; Dec. 28; Sp. p. 4783; Gaz. vol. 149; p. 846.
- Koehler, E., Philadelphia, Pa. Telephone. No. 922,001; May 18; Sp. p. 3943; Gaz. vol. 142; p. 689.
- Koehler, F. G., St. Louis, Mo. Shock-absorber for vehicles. No. 944,446; Dec. 28; Sp. p. 5175; Gaz. vol. 149; p. 908.
- Koehler, F. G., St. Louis, Mo. Shock-absorber for vehicles. No. 944,674; Dec. 28; Sp. p. 5690; Gaz. vol. 149; p. 987.
- Koehler, F. G., St. Louis, Mo. Shock-absorber for vehicles. No. 944,675; Dec. 28; Sp. p. 5692; Gaz. vol. 149; p. 987.
- Koehler, F. G., St. Louis, Mo. Shock-absorber for vehicles. No. 944,676; Dec. 28; Sp. p. 5694; Gaz. vol. 149; p. 988.
- Koehler, F. G., St. Louis, Mo. Shock-absorber for vehicles. No. 944,677; Dec. 28; Sp. p. 5695; Gaz. vol. 149; p. 988.
- Koehler, L. C., Taylor, Pa., and W. M. Butler, New York, N. Y. Puzzle. No. 922,002; May 18; Sp. p. 3944; Gaz. vol. 142; p. 690.
- Koehler, W., Spiersville, Ark. Reversible plow. No. 939,271; Nov. 9; Sp. p. 1789; Gaz. vol. 148; p. 309.
- Koehler, W., Cleveland, Ohio. Securing the chloridization of ores. No. 942,569; Dec. 7; Sp. p. 1125; Gaz. vol. 149; p. 183.
- Koella, E., Knoxville, Tenn. Tuft. No. 923,537; June 1; Sp. p. 937; Gaz. vol. 143; p. 145.
- Koelsch, F., deceased, Scranton, Pa.; M. Koelsch, administratrix. Rotary punching-machine. No. 939,958; Nov. 9; Sp. p. 3316; Gaz. vol. 148; p. 547.
- Koelsch, M., administratrix. (See Koelsch, F.)
- Koeneke, A. L., St. Paul, Minn. Washing-machine. No. 932,617; Aug. 31; Sp. p. 6342; Gaz. vol. 145; p. 1094.
- Koener, P. (See Schwartz and Koener.)
- Koenig, A. (See Haber and Koenig.)
- Koenig, C. J., Alton, Ill. Mechanism for producing hollow glassware. No. 940,165; Nov. 16; Sp. p. 3802; Gaz. vol. 148; p. 648.
- Koenig, G. F., Le Sueur, Minn. Forked or tined scraper. No. 936,457; Oct. 12; Sp. p. 1813; Gaz. vol. 147; p. 301.
- Koenig, H. A., Philadelphia, Pa. Automatic cut-off for gas-heaters. No. 909,308; Jan. 12; Sp. p. 1793; Gaz. vol. 138; p. 321.
- Koenig, J., Riga, Russia. Stop-valve. No. 932,028; Aug. 24; Sp. p. 5114; Gaz. vol. 145; p. 874.
- Koenig, J., Riga, Russia. Equilibrium stop-valve. No. 933,468; Sept. 7; Sp. p. 994; Gaz. vol. 146; p. 150.
- Koenig, J., Riga, Russia. Compensator for pipes. No. 935,996; Oct. 5; Sp. p. 846; Gaz. vol. 147; p. 127.
- Koeniges, M., New York, N. Y. Measuring-faucet. No. 933,255; Sept. 7; Sp. p. 519; Gaz. vol. 146; p. 79.
- Koenigkramer, F. (See Koenigkramer, F. and F.)
- Koenigkramer, F. and F., Cincinnati, Ohio. Spraying-nozzle. No. 912,691; Feb. 16; Sp. p. 3454; Gaz. vol. 139; p. 616.
- Koenigkramer, F. and F., Cincinnati, Ohio. Spraying apparatus. No. 914,289; Mar. 2; Sp. p. 1348; Gaz. vol. 140; p. 269.
- Koenigsberg, C. T., assignor of one-third to H. Koenigsberg, Sr., Holland, Mich. Car-fender. No. 936,782; Oct. 12; Sp. p. 2474; Gaz. vol. 147; p. 412.
- Koenigsberg, C. T. and H., Sr., Holland, Mich. Automobile steering-post. No. 918,166; Apr. 13; Sp. p. 2444; Gaz. vol. 141; p. 438.
- Koenigsberg, H., Sr. (See Koenigsberg, C. T., assignor.)
- Koenigsberg, H., Sr. (See Koenigsberg, C. T. and H., Sr.)
- Koepfer, E., Vienna, Austria-Hungary. Apparatus for impregnating wood. No. 910,546; Jan. 26; Sp. p. 4330; Gaz. vol. 138; p. 795.
- Koerber, L. (See Wunderlich and Koerber.)
- Koerner, A. W., Racine, Wis. Door and window pattern. No. 937,816; Oct. 26; Sp. p. 4620; Gaz. vol. 147; p. 800.
- Koerner, C. H. W., Gualala, Cal. Safety-envelope. No. 918,330; Apr. 13; Sp. p. 2775; Gaz. vol. 141; p. 491.
- Koerner, J., Irvington, N. J. Fruit and vegetable mill. No. 930,194; Aug. 3; Sp. p. 1194; Gaz. vol. 145; p. 195.
- Koerting, E., Pegli, Italy, assignor to Schutte & Koerting Company, Philadelphia, Pa. Steam-condenser. No. 926,198; June 29; Sp. p. 6529; Gaz. vol. 143; p. 1155.
- Koerting, E., Pegli, Italy, assignor to Schutte & Koerting Company, Philadelphia, Pa. Water-jet apparatus. No. 929,674; Aug. 3; Sp. p. 60; Gaz. vol. 145; p. 13.
- Koester, W., assignor of one-third to O. R. Barnett and one-third to F. A. Meyenschein, Chicago, Ill. Extension-table lock. No. 923,795; June 1; Sp. p. 1559; Gaz. vol. 143; p. 233.
- Koetitz, F. A., San Francisco, Cal. Fitting for concrete casings. No. 930,974; Aug. 10; Sp. p. 2797; Gaz. vol. 145; p. 474.
- Koefler, T., Ober-Ferlach, Austria-Hungary, assignor to J. Tambour, Nanterre, near Paris, France. Lock for firearms. No. 941,260; Nov. 23; Sp. p. 6203; Gaz. vol. 148; p. 1041.
- Kogle, W. H., Mason City, Iowa. Hot-water heater. No. 935,117; Sept. 28; Sp. p. 4323; Gaz. vol. 146; p. 771.
- Kohl, A. W., and E. G. Walter, assignors to A. F. Tyler, Elkhart, Ind. Floor-dressing machine. No. 929,140; July 27; Sp. p. 5053; Gaz. vol. 144; p. 898.
- Kohl, J. L. (See Cox, T. W., assignor.)
- Kohl, N., and F. I. Joyce, assignors to Joyce-Cridland Company, Dayton, Ohio. Hydraulic jack. No. 918,167; Apr. 13; Sp. p. 2445; Gaz. vol. 141; p. 438.
- Kohler, A. P., Junction City, Kans. Roller tube-cutter. No. 910,547; Jan. 26; Sp. p. 4332; Gaz. vol. 138; p. 795.
- Kohler, C. F., New York, N. Y. Toilet article. No. 912,001; Feb. 9; Sp. p. 2000; Gaz. vol. 139; p. 349.
- Kohler, E., and J. Bleiker, Alameda, Cal. Combination brush and comb. No. 933,567; Sept. 7; Sp. p. 1238; Gaz. vol. 146; p. 182.
- Kohler, F., South Zanesville, Ohio. School furniture. No. 944,445; Dec. 28; Sp. p. 5174; Gaz. vol. 149; p. 908.
- Kohler, F. W., *et al.* (See Rodman, T. H., assignor.)
- Kohler, G. A. E. (See Graham, G. M., assignor.)
- Kohler, G. A. E., *et al.* (See Rodman, T. H., assignor.)
- Kohler, G. B., assignor to J. G. Brill Company, Philadelphia, Pa. Fare-box. No. 917,616; Apr. 6; Sp. p. 1270; Gaz. vol. 141; p. 224.
- Kohler, G. B., assignor to J. G. Brill Company, Philadelphia, Pa. Means for attaching glass to window-sash. No. 919,887; Apr. 27; Sp. p. 6280; Gaz. vol. 141; p. 1072.
- Kohler, W. L., Mount Clemens, Mich. Shoe-tree. No. 926,750; July 6; Sp. p. 91; Gaz. vol. 144; p. 14.
- Kohn, A., Omaha, Neb. Smoke-consumer. No. 944,196; Dec. 21; Sp. p. 4639; Gaz. vol. 149; p. 795.
- Kohn, E. O., New York, N. Y. Comb. No. 930,195; Aug. 3; Sp. p. 1196; Gaz. vol. 145; p. 195.
- Kohn, F., Vienna, Austria-Hungary. Manufacturing tarsia-work. No. 943,309; Dec. 14; Sp. p. 2743; Gaz. vol. 149; p. 463.
- Kohn, H. C. (See Trautner, N. W., assignor.)
- Kohn, J. E., Bay City, and J. B. Boos, Owosso, Mich. Drying apparatus. No. 910,071; Jan. 19; Sp. p. 3296; Gaz. vol. 138; p. 608.
- Kohonke, S. M., Nettleton, Ark. Masticator. No. 937,613; Oct. 19; Sp. p. 4205; Gaz. vol. 147; p. 716.
- Kohout, F., *et al.* (See Spandau, R. C., assignor.)
- Koken, E. E., St. Louis, Mo. Barber's pole. No. 911,134; Feb. 2; Sp. p. 221; Gaz. vol. 139; p. 40.
- Koken, E. E., St. Louis, Mo. Reclining mechanism for barbers' chairs. No. 911,135; Feb. 2; Sp. p. 223; Gaz. vol. 139; p. 40.
- Kokomo Buncher Company. (See Hanna, N. G., assignor.)

*Alphabetical list of patentees—Continued.*

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- Kolb, J. W., Fairfax, Okla. Surgical instrument. No. 939,034; Nov. 2; Sp. p. 1261; Gaz. vol. 148; p. 202.
- Kolb, J. W., Medicine Lodge, Kans. Surgical instrument. No. 939,035; Nov. 2; Sp. p. 1262; Gaz. vol. 148; p. 202.
- Kolbe, A. G., assignor to Detroit Oak Belting Company, Detroit, Mich. Drive-belt. No. 941,786; Nov. 30; Sp. p. 7341; Gaz. vol. 148; p. 1237.
- Kolehmainen, A., Victoria, Mich. Mower. No. 936,137; Oct. 5; Sp. p. 1132; Gaz. vol. 147; p. 172.
- Kolesch, P., Stuttgart, Germany. Vegetable butter capable of being spread. No. 910,827; Jan. 26; Sp. p. 4907; Gaz. vol. 138; p. 886.
- Kolin, J., Chicago, Ill. Sugar-beet harvester. No. 912,577; Feb. 16; Sp. p. 3220; Gaz. vol. 139; p. 577.
- Kolin, J., Chicago, Ill. Washing-machine. No. 924,797; June 15; Sp. p. 3662; Gaz. vol. 143; p. 627.
- Koll, E., Chicago, Ill. Matching-machine. No. 915,098; Mar. 16; Sp. p. 2977; Gaz. vol. 140; p. 527.
- Koll, L. H., Sherman, Tex. Protective carpet-lining. No. 918,331; Apr. 13; Sp. p. 2776; Gaz. vol. 141; p. 492.
- Kölle, W., Stuttgart, Germany, assignor of one-third to W. Elworthy, Sunnyside Wellington, Somerset, England, and one-third to C. Held, Stuttgart, Germany. Apparatus for generating ozone. No. 909,309; Jan. 12; Sp. p. 1795; Gaz. vol. 138; p. 321.
- Kollehner, J., Jonesboro, Ill. Handle for crosscut-saws. No. 936,913; Oct. 12; Sp. p. 2732; Gaz. vol. 147; p. 456.
- Kollenberg, F. G., Owensboro, Ky. Bookbinder. No. 913,737; Mar. 2; Sp. p. 126; Gaz. vol. 140; p. 22.
- Kolling, W., and A. Fischer, Pittsburg, Pa. Rail-joint. No. 914,849; Mar. 9; Sp. p. 2512; Gaz. vol. 140; p. 420.
- Kollmorgen, F. L. G., Montclair, assignor to Keuffel & Esser Company, Hoboken, N. J. Optical instrument. No. 941,021; Nov. 23; Sp. p. 5696; Gaz. vol. 148; p. 961.
- Kolodziej, J., Chicago, Ill. Yeast-cutting device. No. 920,345; May 4; Sp. p. 518; Gaz. vol. 142; p. 82.
- Kolosick, E. F., Washington, Iowa. Fender for corn-plows. No. 918,332; Apr. 13; Sp. p. 2777; Gaz. vol. 141; p. 492.
- Kolsch, J. W., London, England. Sweat-band for hats and other head-coverings. No. 941,717; Nov. 30; Sp. p. 7200; Gaz. vol. 148; p. 1213.
- Kolsky, A., deceased; J. Petracek, Oberlin, Kans., administrator. Dinner-pail. No. 915,715; Mar. 16; Sp. p. 4252; Gaz. vol. 140; p. 733.
- Kolstad, O., Rhinelander, Wis. Carpenter's tool. No. 935,368; Sept. 28; Sp. p. 4818; Gaz. vol. 146; p. 852.
- Kolvenbach, W. H., New York, N. Y. Type-checker. No. 908,870; Jan. 5; Sp. p. 909; Gaz. vol. 138; p. 144.
- Kolvig, W., Quincy, Mass. Cream-separator. No. 927,360; July 6; Sp. p. 1316; Gaz. vol. 144; p. 218.
- Komow, N. (See Shapiro and Komow.)
- Komp, A., New York, N. Y. Pulp-shaping machine. No. 941,884; Nov. 30; Sp. p. 7559; Gaz. vol. 148; p. 1272.
- Kompe, F., Berlin, assignor to Hanseatische Seeverkehrs Gesellschaft M. B. H., Cologne, Germany. Trolley. No. 928,668; July 20; Sp. p. 4095; Gaz. vol. 144; p. 713.
- Kompelien, A. O., Dieter, Minn. Animal-trap. No. 926,880; July 6; Sp. p. 364; Gaz. vol. 144; p. 58.
- Kondolf, M., Rochester, N. Y. Malt-stirrer. No. 942,649; Dec. 7; Sp. p. 1289; Gaz. vol. 149; p. 210.
- Köneman, W. A., Milwaukee, Wis. Vehicle-tire. No. 913,295; Feb. 23; Sp. p. 4682; Gaz. vol. 139; p. 840.
- Köneman, W. A., Cudahy, Wis. Vehicle-tire. No. 928,611; July 20; Sp. p. 3976; Gaz. vol. 144; p. 694.
- Kongsl, M. O. (See Smith and Kongsl.)
- König, A., assignor to Firm of C. Zeiss, Jena, Germany. Double telescope. No. 918,752; Apr. 20; Sp. p. 3725; Gaz. vol. 141; p. 661.
- König, A., assignor to Firm of C. Zeiss, Jena, Germany. Binocular telescope. No. 920,756; May 4; Sp. p. 1335; Gaz. vol. 142; p. 217.
- König, A., assignor to Firm of C. Zeiss, Jena, Germany. Telescopic sight for ordnance. No. 937,245; Oct. 19; Sp. p. 3431; Gaz. vol. 147; p. 593.
- König, A., assignor to Firm of C. Zeiss, Jena, Germany. Separating-prism telemeter. No. 940,166; Nov. 16; Sp. p. 3816; Gaz. vol. 148; p. 648.
- König, A., assignor to Firm of C. Zeiss, Jena, Germany. Angle-measuring appliance. No. 942,393; Dec. 7; Sp. p. 747; Gaz. vol. 149; p. 122.
- König, W., Ohrdruf, Germany. Red azo dye for lakes and making same. No. 942,916; Dec. 14; Sp. p. 1896; Gaz. vol. 149; p. 331.
- König, W., Ohrdruf, assignor to K. Merz, Frankfurt-on-the-Main, Germany. Monoazo dye and making same. No. 908,580; Jan. 5; Sp. p. 306; Gaz. vol. 138; p. 52.
- König, W., Dresden, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Red dye. No. 913,513; Feb. 23; Sp. p. 5116; Gaz. vol. 139; p. 914.
- König, W., Dresden, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Red dye. No. 913,514; Feb. 23; Sp. p. 5117; Gaz. vol. 139; p. 914.
- Konigsberg, C. S., and W. Allen, Oakland, Cal. Self-heating flat-iron. No. 940,466; Nov. 16; Sp. p. 4495; Gaz. vol. 148; p. 751.
- Königstein, G., San Francisco, assignor of one-third to S. J. Taylor and one-third to S. Mayer, Oakland, Cal. Kitchen implement. No. 928,134; July 13; Sp. p. 2950; Gaz. vol. 144; p. 504.
- Konold, G. F., Aspinwall, assignor to Iron City Tool Works, Limited, Pittsburg, Pa. Making mattocks and similar tools. No. 909,000; Jan. 5; Sp. p. 1171; Gaz. vol. 138; p. 186.
- Konomax Rock Drill Syndicate. (See Mauss, W., assignor.)
- Konter, M., Coraopolis, Pa. Agricultural implement. No. 910,927; Jan. 26; Sp. p. 5087; Gaz. vol. 138; p. 917.
- Koon, J. H., Onarga, Ill. Metal plate or rail. No. 920,755; May 4; Sp. p. 1334; Gaz. vol. 142; p. 217.
- Koons, J. R., Huntington Mills, Pa. Earth-closet. No. 912,856; Feb. 16; Sp. p. 3806; Gaz. vol. 139; p. 670.
- Koons, M. R., York, Pa. Dentistry. No. 941,718; Nov. 30; Sp. p. 7201; Gaz. vol. 148; p. 1214.
- Koons, T. B., et al. (See Huber, A. L., assignor.)
- Koons, V. C., Colorado Springs, Colo. House letter-box. No. 930,484; Aug. 10; Sp. p. 1726; Gaz. vol. 145; p. 312.
- Koons, V. C., assignor to Continental Manufacturing Company, Colorado Springs, Colo. Incubator. No. 916,454; Mar. 30; Sp. p. 5676; Gaz. vol. 140; p. 1026.
- Koons, V. C., assignor to Continental Manufacturing Company, Colorado Springs, Colo. Mail-cart. No. 923,278; June 1; Sp. p. 391; Gaz. vol. 143; p. 55.
- Koontz, G. B., Streator, assignor to King & Hamilton Company, Ottawa, Ill. Portable elevator. No. 936,641; Oct. 12; Sp. p. 2201; Gaz. vol. 147; p. 364.
- Koontz, J. H., Indian Creek township, Monroe county, Ind. Adjustable road-grader. No. 910,928; Jan. 26; Sp. p. 5089; Gaz. vol. 138; p. 918.
- Koontz, N. J., Jefferson, assignor of two-thirds to W. Fowshee and G. L. Ballance, Statesville, N. C. Banjo. No. 922,704; May 25; Sp. p. 5372; Gaz. vol. 142; p. 947.
- Koontz, W. J., Bloomington, Ind. Detachable calk. No. 915,970; Mar. 23; Sp. p. 4756; Gaz. vol. 140; p. 842.
- Koop, J. H., et al. (See Harman, J., assignor.)
- Koop, W. E., et al. (See Geiger, C. E., assignor.)
- Koop, W. E., assignor of one-third to C. E. Geiger and one-third to G. W. Fiske, Louisville, Ky. Drier. No. 931,695; Aug. 17; Sp. p. 4370; Gaz. vol. 145; p. 742.
- Koopman, N., Central Lake, Mich. Bob-sled. No. 937,943; Oct. 26; Sp. p. 4887; Gaz. vol. 147; p. 844.
- Koopmans, S. H., et al. (See Maier, W., assignor.)
- Kopecky, F. (See Svoboda and Kopecky.)
- Koper, W. F., assignor of one-half to F. Marzluff, Chillicothe, Ohio. Hose-coupling. No. 939,036; Nov. 2; Sp. p. 1263; Gaz. vol. 148; p. 203.
- Köpke, E., Honolulu, Hawaii. Wax-extracting apparatus. No. 931,878; Aug. 24; Sp. p. 4766; Gaz. vol. 145; p. 824.
- Koppelman, M., New York, N. Y. Coat-collar. No. 922,434; May 18; Sp. p. 4798; Gaz. vol. 142; p. 831.
- Koppelman, M., New York, N. Y. Coat-collar. No. 928,262; July 20; Sp. p. 3258; Gaz. vol. 144; p. 579.
- Koppers, H., Essen-on-the-Ruhr, Germany. Obtaining ammonia and tar. (Reissue.) No. 12,971; June 8; Sp. p. 3298; Gaz. vol. 143; p. 539.
- Koppers, H., Essen-on-the-Ruhr, Germany. Coke-oven. No. 925,815; June 22; Sp. p. 5722; Gaz. vol. 143; p. 992.
- Koppers, H., Essen-on-the-Ruhr, Germany. Gas and air supply to large-chambered ovens. No. 933,993; Sept. 14; Sp. p. 2093; Gaz. vol. 146; p. 345.
- Kops Bros. (See Kops, S., assignor.)
- Kops Bros. (See Lanzendorfer, G., assignor.)
- Kops, D., New York, N. Y. Apparel-corset. No. 913,404; Feb. 23; Sp. p. 4899; Gaz. vol. 139; p. 878.
- Kops, D., New York, N. Y. Apparel-corset. No. 914,732; Mar. 9; Sp. p. 2277; Gaz. vol. 140; p. 381.
- Kops, D., New York, N. Y. Apparel-corset. No. 919,028; Apr. 20; Sp. p. 4299; Gaz. vol. 141; p. 751.
- Kops, D., New York, N. Y. Apparel-corset. No. 928,669; July 20; Sp. p. 4096; Gaz. vol. 144; p. 713.
- Kops, S., assignor to Kops Bros., New York, N. Y. Means for pinning down waists to corsets. No. 910,291; Jan. 19; Sp. p. 3804; Gaz. vol. 138; p. 685.
- Kops, S., assignor to Kops Bros., New York, N. Y. Means for pinning down waists to corsets. No. 914,733; Mar. 9; Sp. p. 2279; Gaz. vol. 140; p. 382.
- Kops, S., assignor to Kops Bros., New York, N. Y. Clasp for garment-supporters. No. 918,168; Apr. 13; Sp. p. 2447; Gaz. vol. 141; p. 438.
- Kops, S., assignor to Kops Bros., New York, N. Y. Apparel-corset. No. 919,889; Apr. 27; Sp. p. 6283; Gaz. vol. 141; p. 1072.
- Kops, S., assignor to Kops Bros., New York, N. Y. Apparel-corset. No. 919,890; Apr. 27; Sp. p. 6285; Gaz. vol. 141; p. 1073.
- Kops, S., assignor to Kops Bros., New York, N. Y. Elastic webbing. (Reissue.) No. 12,962; May 25; Sp. p. 6286; Gaz. vol. 142; p. 1087.
- Kops, S., assignor to Kops Bros., New York, N. Y. Elastic webbing. (Reissue.) No. 12,972; June 8; Sp. p. 3300; Gaz. vol. 143; p. 540.
- Kops, S., assignor to Kops Bros., New York, N. Y. Garment-supporter. No. 941,787; Nov. 30; Sp. p. 7342; Gaz. vol. 148; p. 1237.



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- Korach, L. L., Chicago, Ill. Fan. No. 939,916; Nov. 9; Sp. p. 3230; Gaz. vol. 148; p. 532.
- Korbel, R., Rochester, N. Y. Fire-escape. No. 918,333; Apr. 13; Sp. p. 2778; Gaz. vol. 141; p. 492.
- Korbel, M., Kingston, Pa. Burglar-alarm. No. 940,535; Nov. 16; Sp. p. 4643; Gaz. vol. 148; p. 774.
- Korcinel, A. C., assignor to American Designing & Reproducing Company, New York, N. Y. Manufacturing drummers' samples for textile fabrics. No. 918,169; Apr. 13; Sp. p. 2448; Gaz. vol. 141; p. 439.
- Korinko, H. G., and A. J. Asp, New York, N. Y. Camera attachment. No. 933,312; Sept. 7; Sp. p. 629; Gaz. vol. 146; p. 98.
- Korman, M. B., Washington, D. C. Connection-guard for eyeglasses. No. 933,763; Sept. 14; Sp. p. 1643; Gaz. vol. 146; p. 271.
- Korndorfer, C. J., East Orange, N. J. Combined bottle-closure and stopper-extractor. No. 927,732; July 13; Sp. p. 2137; Gaz. vol. 144; p. 371.
- Kornreich, S. S., Warren, Pa. Suspenders. No. 943,976; Dec. 21; Sp. p. 4178; Gaz. vol. 149; p. 723.
- Korpatch, J., Johnstown, Pa. Envelop. No. 917,458; Apr. 6; Sp. p. 991; Gaz. vol. 141; p. 173.
- Korper, S. New York, N. Y. Safety-razor. No. 919,888; Apr. 27; Sp. p. 6282; Gaz. vol. 141; p. 1072.
- Korrodi, H., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Sight attachment for guns. No. 933,469; Sept. 7; Sp. p. 995; Gaz. vol. 146; p. 150.
- Korrodi, H., and O. Grauhering, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Sight attachment for guns. No. 932,029; Aug. 24; Sp. p. 5115; Gaz. vol. 145; p. 875.
- Korten, H., assignor to F. Y. Nichols, Chicago, Ill. Purifying water. No. 913,827; Mar. 2; Sp. p. 303; Gaz. vol. 140; p. 53.
- Körting, B., Hanover, Germany. Room-heating plant. No. 922,783; May 25; Sp. p. 5532; Gaz. vol. 142; p. 972.
- Körting, E. G. B., Mariendorf, near Berlin, Germany. Apparatus for charging gas-retorts. No. 926,702; June 29; Sp. p. 7486; Gaz. vol. 143; p. 1320.
- Körting Gebrüder Aktiengesellschaft. (See Lüring, W., assignor.)
- Kortz, C. J., Cleveland, Ohio. Bill-hook. No. 935,997; Oct. 5; Sp. p. 847; Gaz. vol. 147; p. 127.
- Kosak, K., and R. Herz, Vienna, Austria-Hungary. Apparatus for purifying air. No. 920,584; May 4; Sp. p. 991; Gaz. vol. 142; p. 162.
- Koscherak, A., New York, N. Y. Safety-razor frame. No. 920,482; May 4; Sp. p. 780; Gaz. vol. 142; p. 126.
- Koscherak, O. L., New York, N. Y. Siphon-head. No. 934,819; Sept. 21; Sp. p. 3714; Gaz. vol. 146; p. 644.
- Koschinski, E. A., Scranton, Pa. Coupling. No. 944,877; Dec. 28; Sp. p. 6142; Gaz. vol. 149; p. 1056.
- Koske, O., Erfurt, Germany. Type setting and casting machine. No. 941,931; Nov. 30; Sp. p. 7651; Gaz. vol. 148; p. 1288.
- Koske, O., Erfurt, Germany. Type setting and casting machine. No. 941,932; Nov. 30; Sp. p. 7652; Gaz. vol. 148; p. 1289.
- Kossier, S., Chicago, Ill. Ice-creeper. No. 935,998; Oct. 5; Sp. p. 848; Gaz. vol. 147; p. 127.
- Kost, W. E. (See Schrader, C. T., assignor.)
- Koster, N., Los Angeles, assignor of one-half to G. L. James, Longbeach, Cal. Buckle. No. 913,645; Feb. 23; Sp. p. 5446; Gaz. vol. 139; p. 959.
- Kosters, C. B., Buffalo, N. Y. Shoe-stretcher. No. 911,506; Feb. 2; Sp. p. 916; Gaz. vol. 139; p. 160.
- Kösters, O. A. H. H., Hemelingen, and L. Ottemann, Bremen, Germany. Manufacture of amids of higher fatty acids. No. 915,680; Mar. 16; Sp. p. 4195; Gaz. vol. 140; p. 723.
- Koszegi, K., Baja, and E. Széchenyi, Vajszka, Austria-Hungary. Cultivating-machine. No. 941,422; Nov. 30; Sp. p. 6582; Gaz. vol. 148; p. 1116.
- Kota, M. (See Battany, Hlavacs, and Kota.)
- Kotlár, P., Budapest, Austria-Hungary. Life-saving apparatus. No. 936,546; Oct. 12; Sp. p. 2005; Gaz. vol. 147; p. 330.
- Kotrbá, J. G., and H. W. Freese, assignors to A. E. Bond, Chicago, Ill. Gas-lamp. No. 934,737; Sept. 21; Sp. p. 3545; Gaz. vol. 146; p. 617.
- Kotzebue, G. W. (See Sayre, R. H., assignor.)
- Kouns, M. W. (See Frayer and Howard, assignors.)
- Kouns, M. W., Columbus, assignor to Ohio Manufacturing Company, Upper Sandusky, Ohio. Reversible transmission-gearing. No. 922,599; May 25; Sp. p. 5151; Gaz. vol. 142; p. 913.
- Kouns, W., Salina, Kans. Steel rake-tooth. No. 911,017; Jan. 26; Sp. p. 5264; Gaz. vol. 138; p. 946.
- Kovács, A., Sharon, Pa. Table-leveler. No. 934,546; Sept. 21; Sp. p. 3165; Gaz. vol. 146; p. 552.
- Kovács, A., Chicago, Ill. Power-transmission mechanism. No. 936,458; Oct. 12; Sp. p. 1814; Gaz. vol. 147; p. 302.
- Kovács, A., Chicago, and A. Csupák, Harvey, Ill. Feed-bag. No. 923,859; June 8; Sp. p. 1710; Gaz. vol. 143; p. 284.
- Kovács, V. (See Richards, Marley, Kovács, and Reves.)
- Kowarsky, G., (Riga, Russia. Manufacturing metal wheels. No. 939,714; Nov. 9; Sp. p. 2789; Gaz. vol. 148; p. 461.
- Kozar, L. O., assignor of one-half to J. Murgas, Wilkes-Barre, Pa. Electric-arc lamp. No. 923,127; May 25; Sp. p. 6266; Gaz. vol. 142; p. 1084.
- Kozensnik, C., New York, N. Y. Third-rail electric-railway system. No. 940,028; Nov. 16; Sp. p. 3468; Gaz. vol. 148; p. 599.
- Kozensnik, C., New York, N. Y. Third-rail electric-railway system. No. 941,151; Nov. 23; Sp. p. 5978; Gaz. vol. 148; p. 1005.
- Kozisek, C., Chicago, Ill. Burnishing-machine. No. 937,446; Oct. 19; Sp. p. 3876; Gaz. vol. 147; p. 659.
- Kraak, E., Fremont, Ohio. Beet-blocker. No. 939,715; Nov. 9; Sp. p. 2791; Gaz. vol. 148; p. 461.
- Kraatz, R. C., Carbondale, Ill. Twyer-iron. No. 912,314; Feb. 16; Sp. p. 2657; Gaz. vol. 139; p. 488.
- Krabill, J., Mansfield, Ohio. Ore-separator. No. 926,577; June 29; Sp. p. 7233; Gaz. vol. 143; p. 1278.
- Kraemer, A. (See Child and Kraemer.)
- Kraemer, G., Cologne, Germany. Improving textile fibers, threads, and fabrics. No. 942,395; Dec. 7; Sp. p. 753; Gaz. vol. 149; p. 123.
- Kraemer, T., assignor to Hawthorne & Sheble Manufacturing Company, Philadelphia, Pa. Talking-machine. No. 910,208; Jan. 19; Sp. p. 3596; Gaz. vol. 138; p. 653.
- Kraemer, T., assignor to Hawthorne & Sheble Manufacturing Company, Philadelphia, Pa. Sound-box for talking-machines. No. 912,857; Feb. 16; Sp. p. 3510; Gaz. vol. 139; p. 671.
- Kraemer, T., assignor to Hawthorne & Sheble Manufacturing Company, Philadelphia, Pa. Talking-machine mechanism. No. 913,828; Mar. 2; Sp. p. 306; Gaz. vol. 140; p. 53.
- Kraemer, W. A., and G. F. Howell, Jr., Pasadena, Cal. Paper-vending machine. No. 927,055; July 6; Sp. p. 748; Gaz. vol. 144; p. 118.
- Kraetsch, P. H., Astoria, Oreg. Box. No. 925,349; June 15; Sp. p. 4739; Gaz. vol. 143; p. 809.
- Kraft, S., Munich, Germany. Making preventive and curative lymph. No. 941,423; Nov. 30; Sp. p. 6583; Gaz. vol. 148; p. 1116.
- Kraft, H., assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Vat dye and making same. No. 941,152; Nov. 23; Sp. p. 5979; Gaz. vol. 148; p. 1005.
- Kraft, W. B., Milan, Kans. Alfalfa-shredder. No. 936,783; Oct. 12; Sp. p. 2476; Gaz. vol. 147; p. 412.
- Krag, E. L., assignor to E. E. McMoran, Chicago, Ill. Perforator. No. 926,261; June 29; Sp. p. 6657; Gaz. vol. 143; p. 1175.
- Krais, P. M., Ilkley, England. Schreiner finish of textile fabrics. No. 922,295; May 18; Sp. p. 4518; Gaz. vol. 142; p. 784.
- Krakau, H. T., assignor to National Malleable Castings Company, Cleveland, Ohio. Draft-gear. No. 936,547; Oct. 12; Sp. p. 2006; Gaz. vol. 147; p. 331.
- Kram, H. (See Knutson, P. M., assignor.)
- Kramer, A. A., Kansas City, Kans. Stock and poultry fountain. No. 940,259; Nov. 16; Sp. p. 4005; Gaz. vol. 148; p. 682.
- Kramer, A. H., Aurora, assignor of one-half to Plattner Implement Company, Denver, Colo. Adjustable and collapsible trestle. No. 933,650; Sept. 7; Sp. p. 1388; Gaz. vol. 146; p. 209.
- Krämer, C., assignor to Firm of Feiten & Guilleaume-Lahmeyerwerke Aktien-Gesellschaft, Frankfurt-on-the-Main, Germany. Device for tightening cables. No. 916,721; Mar. 30; Sp. p. 6208; Gaz. vol. 140; p. 1111.
- Kramer, E. M., Paxton, Ill. Soil-pulverizing attachment for plows. No. 913,216; Feb. 23; Sp. p. 4517; Gaz. vol. 139; p. 814.
- Kramer, E. M., Paxton, Ill. Bracket for connecting harrow attachments with plow-frames. No. 934,443; Sept. 21; Sp. p. 2978; Gaz. vol. 146; p. 519.
- Kramer, G. H., Dayton, Ohio. Adjustable chimney-cap. No. 912,578; Feb. 16; Sp. p. 3223; Gaz. vol. 139; p. 578.
- Kramer, G. W., and A. G. Hague, Des Moines, Iowa. Trolley-catcher. No. 915,193; Mar. 16; Sp. p. 3202; Gaz. vol. 140; p. 559.
- Kramer, H., *et al.* (See Donnelly, S. E., assignor.)
- Kramer, H. H., assignor of one-half to J. E. Peyton, Terre Haute, Ind. Shoe-fitting stool. No. 942,965; Dec. 14; Sp. p. 2006; Gaz. vol. 149; p. 348.
- Kramer, H. L., Kramer, Ind. Apparatus for waste-rock elimination. No. 942,083; Dec. 7; Sp. p. 96; Gaz. vol. 149; p. 17.
- Kramer, J. (See Ohrmundt and Kramer.)
- Kramer, P. R., Bay City, assignor to E. C. Ewen, Saginaw, Mich. Saw-machine. No. 927,551; July 13; Sp. p. 1736; Gaz. vol. 144; p. 310.
- Kramer, W. A. (See Bock and Kramer.)
- Kramer, W. A., Chambersburg, Pa. Letter-file. No. 919,730; Apr. 27; Sp. p. 5938; Gaz. vol. 141; p. 1019.
- Kramer, W. G., Orwigsburg, Pa. Magazine-rifle. No. 925,350; June 15; Sp. p. 4740; Gaz. vol. 143; p. 809.
- Kramer, W. J., Jr., Oil City, Pa. Coupling device for vehicles. No. 944,333; Dec. 28; Sp. p. 4928; Gaz. vol. 149; p. 868.
- Krautz, A. J., and G. E. Smith, assignors of one-half to said Smith and one-half to J. A. Anderson, Jamestown, N. Y. Trolling-hook. No. 932,477; Aug. 31; Sp. p. 6025; Gaz. vol. 145; p. 1045.
- Krantz, H., Brooklyn, N. Y. Inclosed panel. No. 932,401; Aug. 24; Sp. p. 5842; Gaz. vol. 145; p. 997.
- Krapf, D., Millvale, Pa. Papering-machine. No. 924,361; June 8; Sp. p. 2759; Gaz. vol. 143; p. 449.
- Krapf, D., and J. F. Sachs, Millvale, Pa. Dough-rolling device. No. 943,423; Dec. 14; Sp. p. 2974; Gaz. vol. 149; p. 502.

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- Krapp, F., Dusseldorf, Germany. Ironing-press. No. 913,296; Feb. 23; Sp. p. 4683; Gaz. vol. 139; p. 841.  
 Krapp, H. (See Lovelkin and Young, assignors.)  
 Krasmer, J., Baltimore, Md. Fire-escape. No. 927,056; July 6; Sp. p. 752; Gaz. vol. 144; p. 119.  
 Krasne, H., Omaha, Neb. Rotatable display-rack. No. 937,155; Oct. 19; Sp. p. 3239; Gaz. vol. 147; p. 565.  
 Krastin, P., assignor of one-half to J. C. Widman, Detroit, Mich. Lamp. No. 924,674; June 15; Sp. p. 3402; Gaz. vol. 143; p. 585.  
 Kratzenberg, F. R., New York, N. Y. Sash-fastener. No. 924,474; June 8; Sp. p. 2963; Gaz. vol. 143; p. 485.  
 Kraus, E., Frankfurt-on-the-Main, Germany, assignor to Cassella Color Company, New York, N. Y. Brominated indigo sulfid and making same. No. 920,156; May 4; Sp. p. 126; Gaz. vol. 142; p. 19.  
 Kraus Engine Company. (See Kraus, O., assignor.)  
 Kraus, L. M., et al. (See Peterson, A., assignor.)  
 Kraus, M. L. (See Biddle, G. C., assignor.)  
 Kraus, O., assignor to Kraus Engine Company, New York, N. Y. Combustion-chamber for gas-engines. No. 943,082; Dec. 14; Sp. p. 2287; Gaz. vol. 149; p. 388.  
 Kraus, R., New York, N. Y. Machine for coating wall-paper. No. 916,722; Mar. 30; Sp. p. 6209; Gaz. vol. 140; p. 1112.  
 Krause, A., Boston, Mass. Feeder for printing-presses. No. 921,260; May 11; Sp. p. 2380; Gaz. vol. 142; p. 417.  
 Krause, A., Boston, Mass. Means for operating sliding doors. No. 935,795; Oct. 5; Sp. p. 403; Gaz. vol. 147; p. 59.  
 Krause, A. F., assignor of one-half to C. C. Ladd, Buffalo, N. Y. Controlling device for transmission-gears. No. 931,770; Aug. 24; Sp. p. 4551; Gaz. vol. 145; p. 790.  
 Krause, C. H., Keweenaw Bay, Mich. Atmospheric stamp. No. 915,362; Mar. 16; Sp. p. 3516; Gaz. vol. 140; p. 613.  
 Krause, J. C., Cordell, Okla. Bit. No. 917,951; Apr. 13; Sp. p. 1994; Gaz. vol. 141; p. 363.  
 Krause, P., Babylon, N. Y. Internal-combustion turbine. No. 918,679; Apr. 20; Sp. p. 3572; Gaz. vol. 141; p. 635.  
 Krause, P., Babylon, N. Y. Emergency-stop for motor-vehicles. No. 918,680; Apr. 20; Sp. p. 3576; Gaz. vol. 141; p. 635.  
 Krause, P., Babylon, N. Y. Brake-operating mechanism for motor-vehicles. No. 922,916; May 25; Sp. p. 5824; Gaz. vol. 142; p. 1016.  
 Krause, W. C., and H. C. Dorn, Milwaukee, Wis. Bottle case or crate. No. 933,184; Sept. 7; Sp. p. 322; Gaz. vol. 146; p. 52.  
 Krause, W. G. C. (See Schoenmehl and Krause.)  
 Krauss, C., assignor to Gesellschaft für Stickstoffdünger, Gesellschaft mit beschränkter Haftung, Westeregeln, Germany. Making ammonia. No. 922,003; May 18; Sp. p. 3446; Gaz. vol. 142; p. 690.  
 Kraut, H., assignor to O. Thimm, Chicago, Ill. Washing-machine. No. 936,642; Oct. 12; Sp. p. 2203; Gaz. vol. 147; p. 364.  
 Krauth, A., Hamilton, Ohio. Hinge. No. 914,581; Mar. 9; Sp. p. 1944; Gaz. vol. 140; p. 332.  
 Krauth, A., assignor of one-half to C. Benninghofen, Hamilton, Ohio. Autographic register. No. 925,351; June 15; Sp. p. 4744; Gaz. vol. 143; p. 810.  
 Krautschneder, K., Innsbruck, Austria-Hungary. Medical apparatus for injecting purposes. No. 913,297; Feb. 23; Sp. p. 4684; Gaz. vol. 139; p. 841.  
 Krawchenko, S. N., Wilmington, Del. Loader. No. 920,757; May 4; Sp. p. 1337; Gaz. vol. 142; p. 217.  
 Krawchenko, S. N., Wilmington, Del. Sawing-machine. No. 928,135; July 13; Sp. p. 2951; Gaz. vol. 144; p. 504.  
 Krawchenko, S. N., Wilmington, Del. Measuring device. No. 933,764; Sept. 14; Sp. p. 1644; Gaz. vol. 146; p. 271.  
 Krayer, J. F. (See Strohm, S. D., assignor.)  
 Kravynik, C. A., Racine, Wis. Hanger for trolley-wires. No. 931,771; Aug. 24; Sp. p. 4555; Gaz. vol. 145; p. 790.  
 Kröck, J., Prague, Austria-Hungary. Drop-target. No. 918,170; Apr. 13; Sp. p. 2449; Gaz. vol. 141; p. 439.  
 Kreanner, W., Ripley, Ohio. Apparatus for delivering and receiving mail. No. 923,977; June 8; Sp. p. 1937; Gaz. vol. 143; p. 322.  
 Krebs, A., assignor to La Société Anonyme des Anciens Etablissements Panhard et Levassor, Paris, France. Engine-lubricating device. No. 927,552; July 13; Sp. p. 1739; Gaz. vol. 144; p. 310.  
 Krebs, A., assignor to La Société Anonyme des Anciens Etablissements Panhard et Levassor, Paris, France. Braking means for automobile vehicles. No. 934,547; Sept. 21; Sp. p. 3166; Gaz. vol. 146; p. 552.  
 Krebs, G., Offenbach-on-the-Main, Germany. Flash-light powder. No. 918,558; Apr. 20; Sp. p. 3259; Gaz. vol. 141; p. 594.  
 Krebs, O. M., Memphis, Tenn. Dogging device. No. 936,784; Oct. 12; Sp. p. 2478; Gaz. vol. 147; p. 413.  
 Krech, F. W., and G. C. Bruns, Chicago, Ill. Heel-pad. No. 912,579; Feb. 16; Sp. p. 3224; Gaz. vol. 139; p. 578.  
 Kree, J. G., assignor to Joseph T. Ryerson & Son, Chicago, Ill. Tower. No. 920,157; May 4; Sp. p. 127; Gaz. vol. 142; p. 19.  
 Kreewin, C. (See Butkus, J. A. and J., assignors.)  
 Kreff, L., Des Plaines, Ill. Vermin-destroying apparatus. No. 943,256; Dec. 14; Sp. p. 2633; Gaz. vol. 149; p. 446.  
 Kreidler, W. A., Chicago, Ill., assignor, by mesne assignments, to Lackawanna Steel Company, New York, N. Y. Sheet-piling. No. 937,817; Oct. 26; Sp. p. 4621; Gaz. vol. 147; p. 801.  
 Kreidler, W. A., Chicago, Ill., assignor, by mesne assignments, to Lackawanna Steel Company, New York, N. Y. Sheet-piling. No. 937,818; Oct. 26; Sp. p. 4623; Gaz. vol. 147; p. 801.  
 Kreimeier, D. (See Humme, F. A., assignor.)  
 Krein, A. J., and J. F. Hargreaves, Baltimore, Md. Automatic controller for gas-heaters. No. 912,000; Feb. 9; Sp. p. 1999; Gaz. vol. 139; p. 349.  
 Kreis, O. C., Jr., assignor to Burroughs Adding Machine Company, Detroit, Mich. Carriage mechanism for adding-machines. No. 913,738; Mar. 2; Sp. p. 128; Gaz. vol. 140; p. 22.  
 Kreiter, R. K., Houston, Tex. Pump. No. 937,246; Oct. 19; Sp. p. 3433; Gaz. vol. 147; p. 594.  
 Kreiter, R. K., assignor to M. E. Layne, Houston, Tex. Check-valve. No. 935,118; Sept. 28; Sp. p. 4325; Gaz. vol. 146; p. 772.  
 Kretlein, G. (See Creamer, E. R., assignor.)  
 Krejci, J., Chicago, Ill. Shock-absorber. No. 913,392; Feb. 23; Sp. p. 4881; Gaz. vol. 139; p. 874.  
 Krell, A. (See Welin, P., assignor.)  
 Krell Auto Grand Piano Co. of America. (See Welin, P., assignor.)  
 Krell, O., Charlottenburg, assignor to Siemens-Schuckert-Werke G. m. b. H., Berlin, Germany. Optical instrument for determining the direction of travel of air-ships and the like. No. 940,329; Nov. 16; Sp. p. 4178; Gaz. vol. 148; p. 705.  
 Kremenezky, J., Vienna, Austria-Hungary. Apparatus for working glass in the heat. No. 928,670; July 20; Sp. p. 4097; Gaz. vol. 144; p. 714.  
 Kremenezky, J., Vienna, Austria-Hungary. Sealing the filament-carriers into bulbs of electric incandescent lamps. No. 941,996; Nov. 30; Sp. p. 7767; Gaz. vol. 148; p. 1309.  
 Kremenz & Co. (See Kremenz, F. J., assignor.)  
 Kremenz, F. J., Newark, N. J., assignor to Kremenz & Co. Case or box. No. 927,250; July 6; Sp. p. 1135; Gaz. vol. 144; p. 185.  
 Krenser, J. A., Duquesne, Pa. Locomotive ash-pan. No. 930,866; Aug. 10; Sp. p. 2553; Gaz. vol. 145; p. 440.  
 Krenzel, E. E. (See Gale and Krenzel.)  
 Krenik, J. J., Northfield, Minn. Lock for litter-carriers. No. 929,141; July 27; Sp. p. 5054; Gaz. vol. 144; p. 898.  
 Krentler-Arnold Hinge Last Company. (See Brown, J. T., assignor.)  
 Krentler-Arnold Hinge Last Company. (See Ellis, W. E., assignor.)  
 Krentler-Arnold Hinge Last Company. (See Hamblin, S. M., assignor.)  
 Krentler-Arnold Hinge Last Company. (See Hamm, W. S., assignor.)  
 Krentler-Arnold Hinge Last Company. (See Krentler, E. O., assignor.)  
 Krentler-Arnold Hinge Last Company. (See Pym, C. F., assignor.)  
 Krentler Bros. Co. (See Pym, C. F., assignor.)  
 Krentler, E. O., assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich. Hinged last. No. 936,138; Oct. 5; Sp. p. 1134; Gaz. vol. 147; p. 172.  
 Krenzler, G., Barmen, Germany. Lace-making machine. No. 934,324; Sept. 14; Sp. p. 2732; Gaz. vol. 146; p. 454.  
 Krepps, H. C., Seattle, Wash. Railway-tie. No. 942,650; Dec. 7; Sp. p. 1291; Gaz. vol. 149; p. 211.  
 Kreps, C. D., assignor of one-half to W. B. Kreps, Chicago, Ill. Binding-clip for packages. No. 916,723; Mar. 30; Sp. p. 6210; Gaz. vol. 140; p. 1112.  
 Kreps, L. L. (See McCafferty, A., assignor.)  
 Kreps, W. B. (See Kreps, C. D., assignor.)  
 Kress, F. J., Pittsburg, Pa. Box or case. No. 939,272; Nov. 9; Sp. p. 1791; Gaz. vol. 148; p. 310.  
 Kress, G. R., Pittsburg, Pa. Machine for making cables or conductors. No. 936,728; Oct. 12; Sp. p. 2371; Gaz. vol. 147; p. 394.  
 Kress, J. P. (See Kress, T., assignor.)  
 Kress, T., assignor of one-tenth to J. P. Kress, Fort Wayne, Ind. Roof. No. 924,244; June 8; Sp. p. 2520; Gaz. vol. 143; p. 410.  
 Kretschmer, H. A., Princeton, Ill. Support for flexible tubing. No. 923,662; June 1; Sp. p. 1219; Gaz. vol. 143; p. 188.  
 Kreuter, A., assignor to American Laundry Machinery Manufacturing Company, Chicago, Ill. Ironing-machine. No. 926,751; July 6; Sp. p. 93; Gaz. vol. 144; p. 15.  
 Kreuter, A., assignor to American Laundry Machinery Manufacturing Company, Chicago, Ill. Ironing-machine. No. 933,256; Sept. 7; Sp. p. 522; Gaz. vol. 146; p. 80.  
 Kreutzer, C., and J. C. Jones, Philadelphia, Pa. Lock for sliding doors. No. 908,581; Jan. 5; Sp. p. 307; Gaz. vol. 138; p. 52.  
 Kreuzberger, B., Meriden, Conn. Egg-beater. No. 932,294; Aug. 24; Sp. p. 5651; Gaz. vol. 145; p. 963.



*Alphabetical list of patentees—Continued.*

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- Krewson, S. A., Merchantville, N. J., assignor to L. G. Freeman, Cincinnati, Ohio. Shoe-trimming machine. No. 933,651; Sept. 7; Sp. p. 1390; Gaz. vol. 146; p. 209.
- Kreyscher, L. (See Seidel, F. H., assignor.)
- Krichbaum, G. V. (See Eshelman, B. S., assignor.)
- Krichbaum, W. F., assignor to Foster Engineering Company, Newark, N. J. Regulator. No. 910,292; Jan. 19; Sp. p. 3805; Gaz. vol. 138; p. 685.
- Krichbaum, W. F., Newark, N. J., assignor to Foster Engineering Company. Pressure-regulator. No. 941,153; Nov. 23; Sp. p. 5980; Gaz. vol. 148; p. 1005.
- Kridler, W. W. (See McCormick and Kridler.)
- Kridlo, V., Prague, Austria-Hungary. Treating and utilizing petroleum residues. No. 931,772; Aug. 24; Sp. p. 4556; Gaz. vol. 145; p. 791.
- Kriebel, H. K., Philadelphia, Pa., assignor to Bateman Manufacturing Company, Grenloch, N. J. Double-row cultivator. No. 929,601; July 27; Sp. p. 5969; Gaz. vol. 144; p. 1048.
- Kriebel, H. K. and I. Z., Philadelphia, Pa. System of hot-water heating. No. 917,952; Apr. 13; Sp. p. 1995; Gaz. vol. 141; p. 363.
- Kriebel, H. K. and I. Z., Philadelphia, Pa. Air and vacuum controlling device. No. 924,617; June 8; Sp. p. 3276; Gaz. vol. 143; p. 533.
- Kriebel, H. K. and I. Z., Philadelphia, Pa. Check-valve. No. 934,548; Sept. 21; Sp. p. 3167; Gaz. vol. 146; p. 553.
- Kriebel, I. Z. (See Kriebel, H. K. and I. Z.)
- Krieger, A. W., assignor of one-half to R. H. Meek, Avis, Pa. Finger-shield. No. 911,823; Feb. 9; Sp. p. 1567; Gaz. vol. 139; p. 291.
- Krieger, A. W., assignor of one-half to R. H. Meek, Avis, Pa. Window-frame. No. 940,029; Nov. 16; Sp. p. 3471; Gaz. vol. 148; p. 600.
- Krieger, G., New York, N. Y. Shoe. No. 917,316; Apr. 6; Sp. p. 739; Gaz. vol. 141; p. 126.
- Krieger, G., New York, assignor to Krieger Shoe Company, Brooklyn, N. Y. Life-preserver. No. 917,315; Apr. 6; Sp. p. 738; Gaz. vol. 141; p. 126.
- Krieger, G., Brooklyn, N. Y., and W. K. Tallman, Jersey City, N. J., assignors to Krieger Shoe Company, Brooklyn, N. Y. Life-preserver. No. 928,465; July 20; Sp. p. 3680; Gaz. vol. 144; p. 647.
- Krieger, G., Brooklyn, N. Y., and W. K. Tallman, Jersey City, N. J., assignors to Krieger Shoe Company, Brooklyn, N. Y. Life-preserver. No. 929,313; July 27; Sp. p. 5440; Gaz. vol. 144; p. 957.
- Krieger, G. F., Grand Rapids, Wis. Tool-holder. No. 911,999; Feb. 9; Sp. p. 1998; Gaz. vol. 139; p. 349.
- Krieger, J. T., assignor to Calumet Engineering Works, Harvey, Ill. Safety-switch. No. 931,208; Aug. 17; Sp. p. 3351; Gaz. vol. 145; p. 582.
- Krieger, L., Colombes, France. Controlling apparatus for electrical machinery. No. 934,820; Sept. 21; Sp. p. 3715; Gaz. vol. 146; p. 645.
- Krieger Shoe Company. (See Krieger, G., assignor.)
- Krieger Shoe Company. (See Krieger and Tallman, assignors.)
- Krieghoff, A., Concord, N. H. Piano sounding-board. No. 910,828; Jan. 26; Sp. p. 4908; Gaz. vol. 138; p. 886.
- Kriegshaber, V. H., Atlanta, Ga. Pipe-coupling. No. 924,558; June 8; Sp. p. 3141; Gaz. vol. 143; p. 513.
- Krijthe, H. B., Coevorden, Netherlands. Vaporizing apparatus for liquid-fuel internal-combustion engines. No. 910,693; Jan. 26; Sp. p. 4634; Gaz. vol. 138; p. 842.
- Krimminger, J. B. (See McKnight, F. W., assignor.)
- Kriner, J. B., Novinger, Mo. Whiffletree-coupling. No. 914,428; Mar. 9; Sp. p. 1644; Gaz. vol. 140; p. 281.
- Kring, E. N. (See Pittman and Kring.)
- Kring, F., *et al.* (See Frederick, L., assignor.)
- Krings, T. C., Clarinda, Iowa. Combined folding ironing-table and sleeve-board. No. 933,568; Sept. 7; Sp. p. 1240; Gaz. vol. 146; p. 183.
- Krinks, G. L., Mazeppa, Minn. Mail-delivering apparatus. No. 919,438; Apr. 27; Sp. p. 5220; Gaz. vol. 141; p. 920.
- Krischer, M., New York, N. Y. Razor-strop. No. 914,147; Mar. 2; Sp. p. 1048; Gaz. vol. 140; p. 166.
- Kristofek, F. J., assignor to Meek Company, Coshocton, Ohio. Calculator. No. 916,563; Mar. 30; Sp. p. 5922; Gaz. vol. 140; p. 1062.
- Kristofek, F. J., assignor to Meek Company, Coshocton, Ohio. Score-card and calendar. No. 916,564; Mar. 30; Sp. p. 5923; Gaz. vol. 140; p. 1063.
- Kristofek, F. J., assignor to Meek Company, Coshocton, Ohio. Bill-file or the like. No. 937,247; Oct. 19; Sp. p. 3435; Gaz. vol. 147; p. 594.
- Kristufek, C., assignor of one-half to S. Hughes, Chicago, Ill. Ash-pan for locomotives. No. 919,029; Apr. 20; Sp. p. 4301; Gaz. vol. 141; p. 752.
- Kristzmann, A. (See Szax, M., assignor.)
- Kritzer, C. C., Chicago, Ill. Apparatus for hydrating lime. No. 932,789; Aug. 31; Sp. p. 6706; Gaz. vol. 145; p. 1150.
- Kriwoschein, G. G., St. Petersburg, Russia. Steel piling. No. 918,064; Apr. 13; Sp. p. 2247; Gaz. vol. 141; p. 403.
- Kroder, G. L., Pocahontas, Ill. Wire-stretching appliance. No. 912,858; Feb. 16; Sp. p. 3811; Gaz. vol. 139; p. 671.
- Kroedel, R., assignor to Eastman Kodak Co., Rochester, N. Y. Camera-back. No. 933,470; Sept. 7; Sp. p. 997; Gaz. vol. 146; p. 150.
- Kroedel, R., assignor to Eastman Kodak Co., Rochester, N. Y. Focusing device. No. 933,713; Sept. 7; Sp. p. 1537; Gaz. vol. 146; p. 232.
- Kroedel, R., assignor to Eastman Kodak Co., Rochester, N. Y. Focusing device. No. 937,077; Oct. 19; Sp. p. 3063; Gaz. vol. 147; p. 538.
- Kroedel, R., assignor to Eastman Kodak Co., Rochester, N. Y. Focusing device. No. 937,156; Oct. 19; Sp. p. 3241; Gaz. vol. 147; p. 565.
- Kroedel, R., assignor to Eastman Kodak Co., Rochester, N. Y. Photographic shutter. No. 937,248; Oct. 19; Sp. p. 3436; Gaz. vol. 147; p. 594.
- Kroedel, R., assignor to Eastman Kodak Co., Rochester, N. Y. Plate-holder. No. 940,030; Nov. 16; Sp. p. 3472; Gaz. vol. 148; p. 600.
- Kroedel, R., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-film-developing apparatus. No. 917,078; Apr. 6; Sp. p. 233; Gaz. vol. 141; p. 43.
- Kroedel, R., assignor to Eastman Kodak Company, Rochester, N. Y. Focusing device for cameras. No. 917,079; Apr. 6; Sp. p. 236; Gaz. vol. 141; p. 43.
- Kroedel, R., assignor to Eastman Kodak Company, Rochester, N. Y. Tripod. No. 931,773; Aug. 24; Sp. p. 4557; Gaz. vol. 145; p. 791.
- Kroeger, M. C. A. C., Gerrards Cross, England. Attachment for flower-pots and the like. No. 923,663; June 1; Sp. p. 1220; Gaz. vol. 143; p. 188.
- Kroehn, F. (See Joseffy and Kroehn.)
- Kroell, M., Hartwell, Ohio. Laced shoe. No. 923,860; June 8; Sp. p. 1712; Gaz. vol. 143; p. 284.
- Kroenke, E. A., New York, N. Y. Refrigerator. No. 919,030; Apr. 20; Sp. p. 4303; Gaz. vol. 141; p. 752.
- Kroenung, F. S., St. Louis, Mo. Toy fountain. No. 917,459; Apr. 6; Sp. p. 992; Gaz. vol. 141; p. 173.
- Kroeschell Brothers Company. (See Kroeschell, C., assignor.)
- Kroeschell Brothers Company. (See Schwartz, E. H., assignor.)
- Kroeschell, C., assignor to Kroeschell Bros. Co., Chicago, Ill. Furnace. No. 927,861; July 13; Sp. p. 2418; Gaz. vol. 144; p. 413.
- Kroeschell, C., assignor to Kroeschell Brothers Company, Chicago, Ill. Valve device. No. 913,960; Mar. 2; Sp. p. 636; Gaz. vol. 140; p. 100.
- Kröger, C., assignor to Norddeutsche Wollkammerei und Kammgarmspinnerei, Delmenhorst, Germany. Combing-machine for textile materials. No. 915,194; Mar. 16; Sp. p. 3204; Gaz. vol. 140; p. 560.
- Krogh, F. W., San Francisco, Cal. Pump for deep wells. No. 927,057; July 6; Sp. p. 754; Gaz. vol. 144; p. 119.
- Krogh, O. P. (See Bröchner-Larsen and Krogh.)
- Krohn, A., *et al.* (See Munsill, J. L., assignor.)
- Krohn, G. A., Coarsegold, Cal. Vehicle-tire and tightening means therefor. No. 939,037; Nov. 2; Sp. p. 1264; Gaz. vol. 148; p. 203.
- Krohn, J. C., *et al.* (See Munsill, J. L., assignor.)
- Krohn, S., Charlottenburg, Germany, assignor to General Electric Company. Car-lighting system. No. 925,110; June 15; Sp. p. 4300; Gaz. vol. 143; p. 733.
- Kromme, J., *et al.* (See Garrette, J. E., assignor.)
- Krone, J., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Hydraulic-piston engine. No. 932,033; Aug. 24; Sp. p. 5127; Gaz. vol. 145; p. 876.
- Krone, J., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Articulated chain. No. 932,034; Aug. 24; Sp. p. 5130; Gaz. vol. 145; p. 877.
- Krone, J., and J. Becker, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Smoke-remover for ordnance. No. 932,032; Aug. 24; Sp. p. 5125; Gaz. vol. 145; p. 876.
- Krone, J., Essen-on-the-Ruhr, G. A. Schoeller, Mülheim-on-the-Ruhr, and H. Sundhausen, Bredeneu, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Electrically-driven elevating mechanism for barrel-recoil guns. No. 932,030; Aug. 24; Sp. p. 5117; Gaz. vol. 145; p. 875.
- Krone, J., Essen-on-the-Ruhr, G. A. Schoeller, Mülheim-on-the-Ruhr, and H. Sundhausen, Bredeneu, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Electrically-driven elevating mechanism for guns. No. 932,031; Aug. 24; Sp. p. 5122; Gaz. vol. 145; p. 875.
- Kronenberg, C. W. (See Wiegand and Kronenberg.)
- Kronenberg, R., Ohligs, Germany. Divided wheel-rim serving as tire-retainer. No. 909,001; Jan. 5; Sp. p. 1174; Gaz. vol. 138; p. 187.
- Kronenberger, F., New York, assignor of one-half to R. Stewart, Brooklyn, N. Y. Race-course. No. 920,346; May 4; Sp. p. 519; Gaz. vol. 142; p. 83.
- Kronenberger, J. (See Hess, B., assignor.)
- Kronheimer, L. M. (See Cohn and Kronheimer.)
- Kronman, E., New York, N. Y. Sterilizing apparatus. No. 934,190; Sept. 14; Sp. p. 2485; Gaz. vol. 146; p. 410.

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- Kropp, C., Good Harbor, assignor to A. R. McManus, Traverse City, Mich. Rake attachment for potato-hooks. No. 938,001; Oct. 26; Sp. p. 5006; Gaz. vol. 147; p. 863.
- Kropp, J. F., Attica, N. Y. Honey-extractor. No. 914,290; Mar. 2; Sp. p. 1350; Gaz. vol. 140; p. 209.
- Krotz, A. S., Chicago, Ill. Timer. No. 930,196; Aug. 3; Sp. p. 1197; Gaz. vol. 145; p. 195.
- Krotz, A. S., Chicago, Ill. Gas-engine. No. 931,319; Aug. 17; Sp. p. 3601; Gaz. vol. 145; p. 621.
- Krotz, A. S., assignor to Sears, Roebuck & Company, Chicago, Ill. Automobile-engine. No. 940,031; Nov. 16; Sp. p. 3476; Gaz. vol. 148; p. 600.
- Krouse, J. H., assignor of one-half to H. S. Campbell, Napoleon, Ohio. Scissors or shears. No. 927,058; July 6; Sp. p. 756; Gaz. vol. 144; p. 120.
- Kroyer, J. M., assignor to Samson Iron Works, Stockton, Cal. Friction-clutch. No. 943,977; Dec. 21; Sp. p. 4179; Gaz. vol. 149; p. 723.
- Krueger, C. E. and W. H., Minneapolis, Minn. Magazine talking-machine. No. 915,448; Mar. 16; Sp. p. 3687; Gaz. vol. 140; p. 642.
- Krueger, C. E. and W. H., Minneapolis, Minn. Combination gage and bevel-square. No. 924,675; June 15; Sp. p. 3404; Gaz. vol. 143; p. 586.
- Krueger, C. E. and W. H., Minneapolis, Minn. Attachment for regulating and indicating the temperature of running water. No. 936,548; Oct. 12; Sp. p. 2010; Gaz. vol. 147; p. 331.
- Krueger, E., Rawlins, Wyo. Saddle. No. 920,347; May 4; Sp. p. 524; Gaz. vol. 142; p. 83.
- Krueger, G. A., Manor, Tex. Combined cotton chopper and cultivator. No. 917,080; Apr. 6; Sp. p. 239; Gaz. vol. 141; p. 44.
- Krueger, H. A., assignor of one-half to G. H. Schelp, St. Louis, Mo. Friction-clutch. No. 928,671; July 20; Sp. p. 4098; Gaz. vol. 144; p. 714.
- Krueger, H. L. E., assignor to Tufting Machine Supply Company, Chicago, Ill. Measuring instrument. No. 931,774; Aug. 24; Sp. p. 4559; Gaz. vol. 145; p. 791.
- Krueger, W. C., Winona, Minn. Back-comb. No. 915,775; Mar. 23; Sp. p. 4396; Gaz. vol. 140; p. 780.
- Krueger, W. H. (See Krueger, C. E. and W. H.)
- Krueger, W. H., Wilkes-Barre, Pa. Automatic cut-off for gas-burners. No. 915,681; Mar. 16; Sp. p. 4196; Gaz. vol. 140; p. 723.
- Krug, H., assignor to C. Erlewein, Cincinnati, Ohio. Window ventilating device. No. 911,660; Feb. 9; Sp. p. 1272; Gaz. vol. 139; p. 238.
- Kruger, F. W., Little Cedar, Iowa. Shield for pneumatic tires. No. 928,986; July 27; Sp. p. 4723; Gaz. vol. 144; p. 847.
- Krüger, H., Holzen, near Schwerte, Germany. Blade-attaching means. No. 921,547; May 11; Sp. p. 2978; Gaz. vol. 142; p. 512.
- Krüger, H. F., New Kensington, Pa. Envelop. No. 922,600; May 25; Sp. p. 5153; Gaz. vol. 142; p. 913.
- Kruger, L., Youngstown, Ohio. Rolling-mill guide. No. 916,724; Mar. 30; Sp. p. 6211; Gaz. vol. 140; p. 1112.
- Kruh, O. O., Schenectady, N. Y., assignor to General Electric Company. Vapor electric conductor. No. 916,879; Mar. 30; Sp. p. 6493; Gaz. vol. 140; p. 1160.
- Krum, C. L., assignor to Morkrum Company, Chicago, Ill. Transmitter for electric telegraphs and the like. No. 929,602; July 27; Sp. p. 5972; Gaz. vol. 144; p. 1049.
- Krum, C. L., assignor to Morkrum Company, Chicago, Ill. Transmitter for automatic telegraphs. No. 929,603; July 27; Sp. p. 5981; Gaz. vol. 144; p. 1049.
- Krummel, L. C. (See Norton and Krummel.)
- Krummel, L. C., Clinton, Conn. Lap-seam body-former. No. 934,191; Sept. 14; Sp. p. 2487; Gaz. vol. 146; p. 411.
- Krummel, L. C., Clinton, Conn. Head-seaming mechanism for can-bodies. No. 934,921; Sept. 21; Sp. p. 3908; Gaz. vol. 146; p. 678.
- Krummel, L. C., Clinton, Conn. Read for bottle-capping machines. No. 938,325; Oct. 26; Sp. p. 5712; Gaz. vol. 147; p. 973.
- Krummel, L. C., Clinton, Conn. Automatic feeding mechanism for presses. No. 938,876; Nov. 2; Sp. p. 925; Gaz. vol. 148; p. 146.
- Krummel, L. C., Clinton, Conn. Can-heading machine. No. 941,346; Nov. 23; Sp. p. 6376; Gaz. vol. 148; p. 1067.
- Krummel, L. C., Clinton, Conn. Flanging-head for receptacles. No. 944,791; Dec. 28; Sp. p. 5949; Gaz. vol. 149; p. 1026.
- Krummel, L. C., Clinton, Conn., and J. C. Taliaferro, Baltimore, Md. Device for feeding cans to operating mechanisms. No. 931,434; Aug. 17; Sp. p. 3834; Gaz. vol. 145; p. 661.
- Krumming, R., Milwaukee, Wis. Loose-leaf binder. No. 911,049; Feb. 2; Sp. p. 50; Gaz. vol. 139; p. 11.
- Krumming, R., Milwaukee, Wis. Attachment means for binder-posts. No. 911,050; Feb. 2; Sp. p. 55; Gaz. vol. 139; p. 11.
- Krumming, R., Milwaukee, Wis. Attachment means for binder-posts. No. 933,714; Sept. 7; Sp. p. 1539; Gaz. vol. 146; p. 233.
- Krumsee, W. F., Chicago, Ill. Gas-stove stand. No. 941,524; Nov. 30; Sp. p. 6785; Gaz. vol. 148; p. 1149.
- Krupp, L. A. (See Van Buren and Krupp.)
- Kruse, A. M., *et al.*, executors. (See Kruse, A. T.)
- Kruse, A. T., assignor to American Steel Package Company, Defiance, Ohio. Packing-case. No. 929,604; July 27; Sp. p. 5996; Gaz. vol. 144; p. 1050.
- Kruse, A. T., assignor to American Steel Package Company, Defiance, Ohio. Packing-case. No. 942,966; Dec. 14; Sp. p. 2008; Gaz. vol. 149; p. 348.
- Kruse, A. T., assignor to American Steel Package Company, Defiance, Ohio. Construction of receptacles. No. 943,686; Dec. 21; Sp. p. 3573; Gaz. vol. 149; p. 622.
- Kruse, A. T., deceased; C. M. Willock and A. M. Kruse, executors, assignors to American Steel Package Company, Defiance, Ohio. Metallic barrel. No. 943,687; Dec. 21; Sp. p. 3575; Gaz. vol. 149; p. 623.
- Kruse & Breyling. (See Weissenborn, P., assignor.)
- Kruse, C. and E. J., Seattle, Wash. Combined bread kneading and molding machine. No. 923,360; June 1; Sp. p. 577; Gaz. vol. 143; p. 83.
- Kruse, E. J. (See Kruse, C. and E. J.)
- Kruse, M., Charlottenburg, Germany. Apparatus for making copies of models. No. 918,171; Apr. 13; Sp. p. 2451; Gaz. vol. 141; p. 439.
- Kruse, W., Chicago, Ill. Game apparatus. No. 936,785; Oct. 12; Sp. p. 2480; Gaz. vol. 147; p. 413.
- Krusl, E. (See Brown, J. H., assignor.)
- Krutsch, W. W., assignor of one-eighth to M. K. Barron, Coffeyville, one-fourth to H. Higginbottom, Cherryvale, and one-fourth to J. W. Cunningham, Coffeyville, Kans. Wedge-forming machine. No. 919,032; Apr. 20; Sp. p. 4308; Gaz. vol. 141; p. 753.
- Krutsinger, A., assignor of one-half to L. N. Goodell, Pasco, Wash. Footboard. No. 936,786; Oct. 12; Sp. p. 2482; Gaz. vol. 147; p. 414.
- Kryger, H. H., Minneapolis, Minn. Sickle-drive for harvesters. No. 925,352; June 15; Sp. p. 4745; Gaz. vol. 143; p. 810.
- Krygowski, W., Chicopee Falls, Mass. Combined motor and air-compressor. No. 917,081; Apr. 6; Sp. p. 241; Gaz. vol. 141; p. 44.
- Krzywiec, A. B., Warsaw, Russia. Incandescent petroleum-lamp. No. 927,804; July 13; Sp. p. 2283; Gaz. vol. 144; p. 395.
- Kubach, W. L., Norwalk, Ohio. Automatic railway-switch. No. 937,819; Oct. 26; Sp. p. 4624; Gaz. vol. 147; p. 802.
- Kubierschky, M. T. A., and P. E. Herkner, Berlin, Germany. Insulator. No. 937,447; Oct. 19; Sp. p. 3877; Gaz. vol. 147; p. 660.
- Kucera, G. (See Greer, W. N., assignor.)
- Kuchs, O. M. (See Laist, F., assignor.)
- Kuchs, O. M., assignor of one-half to F. Laist, Anaconda, Mont. Ore-classifier. No. 927,059; July 6; Sp. p. 758; Gaz. vol. 144; p. 120.
- Kuchs, O. M., assignor of one-half to F. Laist, Anaconda, Mont. Centrifugal slime-separator. No. 943,083; Dec. 14; Sp. p. 2288; Gaz. vol. 149; p. 388.
- Kuck, H. J., Chicago, Ill. Cooling-box. No. 941,077; Nov. 23; Sp. p. 5808; Gaz. vol. 148; p. 980.
- Kuebler, J. C., Wellsville, N. Y. Drying-furnace. No. 919,598; Apr. 27; Sp. p. 5678; Gaz. vol. 141; p. 976.
- Kuebler, J. C., Wellsville, N. Y. Process and apparatus for the extracting of oil from wax. No. 942,917; Dec. 14; Sp. p. 1897; Gaz. vol. 149; p. 331.
- Kuehl, L. T., Chicago, Ill. Kerosene-burner. No. 917,460; Apr. 6; Sp. p. 993; Gaz. vol. 141; p. 173.
- Kuehne, O., San Antonio, Tex. Windlass. No. 914,582; Mar. 9; Sp. p. 1946; Gaz. vol. 140; p. 332.
- Kuenneth, G. W., Paterson, N. J. Let-off mechanism for narrow-ware looms. No. 940,330; Nov. 16; Sp. p. 4180; Gaz. vol. 148; p. 705.
- Kuentzler, H., assignor to Adder Machine Company, Kingston, Pa. Calculating-machine. No. 937,249; Oct. 19; Sp. p. 3442; Gaz. vol. 147; p. 595.
- Kugel, P. (See Gelpke and Kugel.)
- Kügelgen, F. von. (See Seward and Kügelgen.)
- Kügelgen, F. von, and G. O. Seward, Holcombs Rock, Va., assignors, by mesne assignments, to Tin Products Company, New York, N. Y. Detinning. No. 915,029; Mar. 9; Sp. p. 2819; Gaz. vol. 140; p. 477.
- Kügelgen, F. von, Holcombs Rock, Va., and G. O. Seward, East Orange, N. J., assignors to Virginia Laboratory Company, New York, N. Y. Production of magnesium. No. 935,796; Oct. 5; Sp. p. 404; Gaz. vol. 147; p. 60.
- Kugler, F., assignor, by mesne assignments, to Martini-Buchbinderei- & Textilmaschinenfabrik, A. G., Frauenfeld, Switzerland. Book-stitching machine. No. 936,643; Oct. 12; Sp. p. 2206; Gaz. vol. 147; p. 365.
- Kuhle, A. (See Hattemer and Kuhle.)
- Kuhlman, J. H. (See Fowler, J. D., assignor.)
- Kuhlman, W. A., Toledo, Ohio. Metal harness. No. 909,612; Jan. 12; Sp. p. 2377; Gaz. vol. 138; p. 422.
- Kuhlmann, K., Berlin-Pankow, Germany, assignor to General Electric Company. Circuit-breaker. No. 918,681; Apr. 20; Sp. p. 3578; Gaz. vol. 141; p. 636.
- Kuhn, C. W., Washington, D. C. Meat-cutter. No. 928,389; July 20; Sp. p. 3521; Gaz. vol. 144; p. 622.
- Kuhn, E., Berlin, Germany. Breathing-mask. No. 938,247; Oct. 26; Sp. p. 5546; Gaz. vol. 147; p. 947.



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- Kuhn, E., assignor to Kuhn Specialties Company, East Orange, N. J. Device for flushing basins. No. 941,997; Nov. 30; Sp. p. 7768; Gaz. vol. 148; p. 1309.
- Kuhn, E. C., Cincinnati, Ohio. Umbrella. No. 934,444; Sept. 21; Sp. p. 2980; Gaz. vol. 146; p. 519.
- Kuhn, E. W., London, England. Manufacturing fermented beverages. No. 936,328; Oct. 12; Sp. p. 1496; Gaz. vol. 147; p. 259.
- Kuhn, F., assignor to American Electrical Heater Company, Detroit, Mich. Sad-iron support. No. 929,093; July 27; Sp. p. 4943; Gaz. vol. 144; p. 881.
- Kuhn, F., assignor to American Electrical Heater Company, Detroit, Mich. Illuminous electric heater. No. 929,094; July 27; Sp. p. 4944; Gaz. vol. 144; p. 881.
- Kuhn, F., assignor to American Electrical Heater Company, Detroit, Mich. Electric heater. No. 929,095; July 27; Sp. p. 4945; Gaz. vol. 144; p. 881.
- Kuhn, H., Rochester, N. Y. Producing translucent paper. No. 938,877; Nov. 2; Sp. p. 929; Gaz. vol. 148; p. 146.
- Kuhn, M., New York, N. Y. Checking and controlling machine. No. 924,245; June 8; Sp. p. 2522; Gaz. vol. 143; p. 410.
- Kuhn Specialties Company. (See Kuhn, E., assignor.)
- Kühne, K. A., assignor to Titan Gesellschaft mit beschränkter Haftung, Dresden, Germany. Reduction of refractory oxides. No. 910,394; Jan. 19; Sp. p. 4010; Gaz. vol. 138; p. 720.
- Kühne, P., New York, N. Y. Sheet-metal structural element. No. 917,082; Apr. 6; Sp. p. 245; Gaz. vol. 141; p. 45.
- Kühnel, E. O. C. (See Kilgore, W. B., assignor.)
- Kühnel, E. O. C., assignor of one-half to W. B. Kilgore, Crafton, Pa. Punching-machine. No. 930,867; Aug. 10; Sp. p. 2554; Gaz. vol. 145; p. 440.
- Kühnle, G. F., Philadelphia, Pa. Ironing-machine. No. 919,033; Apr. 20; Sp. p. 4309; Gaz. vol. 141; p. 753.
- Kujawski, F. P., et al. (See Matlak, A., assignor.)
- Kukla, J., Brünn, Austria-Hungary. Device for casting short quads in type-casting machines. No. 929,862; Aug. 3; Sp. p. 508; Gaz. vol. 145; p. 82.
- Kulage, A. F. (See Dreibuss and Kulage.)
- Kulage, J. J., St. Louis, Mo. Internal-combustion engine. No. 929,769; Aug. 3; Sp. p. 292; Gaz. vol. 145; p. 50.
- Kull, C. (See Seelhorst, J., Jr., assignor.)
- Kulp, C. L., assignor of one-third to D. Howerter, Sunbury, Pa. Electric alarm for incubators. No. 936,914; Oct. 12; Sp. p. 2733; Gaz. vol. 147; p. 456.
- Kummer, C., Hampshire, Ill. Screw-driver. No. 925,999; June 15; Sp. p. 4096; Gaz. vol. 143; p. 696.
- Kummer, J. W., Goldfield, Nev. Curtain-fixture. No. 923,050; May 25; Sp. p. 6093; Gaz. vol. 142; p. 1058.
- Kummer, R., New York, N. Y. Clothes-line holder. No. 927,553; July 13; Sp. p. 1740; Gaz. vol. 144; p. 311.
- Kumpfmiller, A., Hocklingsen, near Hemer, Germany. Tannin-containing extract and producing same. No. 940,394; Nov. 16; Sp. p. 4348; Gaz. vol. 148; p. 728.
- Kunath, E. F., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 915,030; Mar. 9; Sp. p. 2820; Gaz. vol. 140; p. 477.
- Kunath, E. F., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 928,987; July 27; Sp. p. 4724; Gaz. vol. 144; p. 847.
- Kunath, E. F., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Stenciling-machine. No. 934,077; Sept. 14; Sp. p. 2253; Gaz. vol. 146; p. 371.
- Kundert, A., et al. (See Montgomery, J. H., assignor.)
- Kundtz, T., Lakewood, and J. Rehor, Cleveland, Ohio; said Rehor assignor to said Kundtz. Sewing-machine cabinet. No. 910,003; Jan. 19; Sp. p. 3166; Gaz. vol. 138; p. 585.
- Kunheim u. Co. (See Huber, J. L., assignor.)
- Kunick, L. J., Rutland, Ill. Cheese-cutter. No. 922,156; May 18; Sp. p. 4232; Gaz. vol. 142; p. 739.
- Kunick, L. J., Rutland, Ill. Cheese-cutting apparatus. No. 938,063; Oct. 26; Sp. p. 5146; Gaz. vol. 147; p. 884.
- Kunkel, F. R., Edgewood Park, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Field-magnet winding for dynamo-electric machines. No. 926,262; June 29; Sp. p. 6659; Gaz. vol. 143; p. 1175.
- Kunkel, F. R., Edgewood Park, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Dynamo-electric machine. No. 928,771; July 20; Sp. p. 4286; Gaz. vol. 144; p. 747.
- Kunkel, F. R., Edgewood Park, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Pivotal connection. No. 928,772; July 20; Sp. p. 4288; Gaz. vol. 144; p. 747.
- Kunkel, F. R., Edgewood Park, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Commutator for electrical machines. No. 928,918; July 20; Sp. p. 4288; Gaz. vol. 144; p. 798.
- Kunkel, M. E. (See Wonner, W. W., assignor.)
- Kunkel, W. L., Green Island, Iowa. Rein and hitching-strap holder. No. 935,999; Oct. 5; Sp. p. 849; Gaz. vol. 147; p. 127.
- Kunkle, D. A. (See Coval and Kunkle.)
- Kunkle, H. C., Canton, Ohio. Brick-stroking-off machine. No. 944,447; Dec. 28; Sp. p. 5177; Gaz. vol. 149; p. 908.
- Kunstdruck-und-Verlagsanstalt Wezel & Naumann Aktiengesellschaft. (See Biberfeld, A., assignor.)
- Kuntz, O. R. (See Osburn and Kuntz.)
- Küntzler, H., assignor to Adder Machine Company, Kingston, Pa. Ribbon feeding and reversing mechanism for adding-machines. No. 940,814; Nov. 23; Sp. p. 5261; Gaz. vol. 148; p. 893.
- Kuny, H. (See Handschin and Kuny.)
- Kunz, J. C., Fresno, Cal. Lawn-sprinkler. No. 932,618; Aug. 31; Sp. p. 6345; Gaz. vol. 145; p. 1094.
- Kunz, J. P., Jr., St. Louis, Mo. Ellipsograph. No. 944,562; Dec. 28; Sp. p. 5470; Gaz. vol. 149; p. 949.
- Kunze, E. J. (See Illmer and Kunze.)
- Kunzli, E., assignor of one-fourth to P. T. Barlow, New York, N. Y. Tubular fabric and weaving the same. No. 914,429; Mar. 9; Sp. p. 1645; Gaz. vol. 140; p. 281.
- Kunzmann, A. R., Volga, Iowa. Spoke-setter. No. 929,957; Aug. 3; Sp. p. 712; Gaz. vol. 145; p. 113.
- Küpfer, G., Santiago, Chile. Shaft-bearing. No. 943,688; Dec. 21; Sp. p. 3577; Gaz. vol. 149; p. 623.
- Küppers, K., Aachen, Germany. Incandescent gas-burner. No. 918,753; Apr. 20; Sp. p. 3727; Gaz. vol. 141; p. 661.
- Kurrowski, E. F., assignor to John C. Moninger Company, Chicago, Ill. Greenhouse construction. No. 913,217; Feb. 23; Sp. p. 4522; Gaz. vol. 139; p. 814.
- Kursheedt Manufacturing Company. (See Groebli, J. A., assignor.)
- Kurt, F. J. (See Getty, V. C., assignor.)
- Kurth, M., Franklin, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Variable-volume air-compressor. No. 909,427; Jan. 12; Sp. p. 2014; Gaz. vol. 138; p. 358.
- Kurth, O. W., Fullerton, N. D. Device for releasing pool-table triangles. No. 934,549; Sept. 21; Sp. p. 3169; Gaz. vol. 146; p. 553.
- Kurtz, C. B., Lakewood, Ohio. Transmission-gearing. No. 942,266; Dec. 7; Sp. p. 504; Gaz. vol. 149; p. 79.
- Kurtz, E. W., Sr., Chicago, Ill. Attaching device for fishing-line reels. No. 923,664; June 1; Sp. p. 1221; Gaz. vol. 143; p. 188.
- Kurtz, S. S. (See Troutman, E. D., assignor.)
- Kurtz, S. S., Canton, Ohio. File. No. 916,565; Mar. 30; Sp. p. 5925; Gaz. vol. 140; p. 1063.
- Kurtz, W. E. (See Davis, G., assignor.)
- Kurtzner, H., New Haven, Conn. Section for automobile-radiators. No. 943,257; Dec. 14; Sp. p. 2635; Gaz. vol. 149; p. 446.
- Kurton, M., Chicago, Ill. Combined roller-support and casing for edgewise-movable doors. No. 938,493; Nov. 2; Sp. p. 104; Gaz. vol. 148; p. 16.
- Kurz, A. W., Cleveland, Ohio. Vault-head. No. 921,123; May 11; Sp. p. 2097; Gaz. vol. 142; p. 370.
- Kurz, A. W., Cleveland, Ohio. Log-loading apparatus. No. 940,331; Nov. 16; Sp. p. 4183; Gaz. vol. 148; p. 706.
- Kurz, C. F., Cleveland, Ohio. Case or cabinet having sliding doors. No. 920,158; May 4; Sp. p. 129; Gaz. vol. 142; p. 20.
- Kurz, O., assignor to M. J. Foyer, Toledo, Ohio. Folding perambulator. No. 933,079; Sept. 7; Sp. p. 83; Gaz. vol. 146; p. 14.
- Kusch, C., Clarenkraut, near Breslau, Germany. Flexible saw-frame. No. 931,435; Aug. 17; Sp. p. 3838; Gaz. vol. 145; p. 661.
- Kush, T., and A. Webber, Chicago, Ill. Door-controlling device. No. 916,455; Mar. 30; Sp. p. 5683; Gaz. vol. 140; p. 1027.
- Kuster, D. F., and G. J. Niemann, Washuena, Wash. Plowing-machine. No. 939,716; Nov. 9; Sp. p. 2794; Gaz. vol. 148; p. 461.
- Kustner, P. A., Geneva, Switzerland, assignor of one-half to G. Sonnenthal, London, England. Machine for grinding milling-cutters or similar tools. No. 936,915; Oct. 12; Sp. p. 2735; Gaz. vol. 147; p. 457.
- Kuttner, H. N., et al. (See Forst, M., assignor.)
- Kutz, C. W., Humbert, Pa. Track structure. No. 941,324; Nov. 23; Sp. p. 6339; Gaz. vol. 148; p. 1060.
- Kutz, G. C., assignor of one-half to J. Harris, Cleveland, Ohio. Marking-machine. No. 925,923; June 22; Sp. p. 5947; Gaz. vol. 143; p. 1027.
- Kuwada, G., Kobe, Japan. Metal-planer. No. 934,078; Sept. 14; Sp. p. 2266; Gaz. vol. 146; p. 371.
- Kuwada, G., Kobe, Japan. Machine-tool. No. 934,079; Sept. 14; Sp. p. 2268; Gaz. vol. 146; p. 372.
- Kuylenstierna, A., Philadelphia, Pa. Condenser. No. 927,251; July 6; Sp. p. 1137; Gaz. vol. 144; p. 185.
- Kuzel, H., Baden, near Vienna, Austria-Hungary. Solder for incandescent-lamp filaments. No. 912,245; Feb. 9; Sp. p. 2473; Gaz. vol. 139; p. 426.

*Alphabetical list of patentees—Continued.*

- Kuzel, H., Baden, near Vienna, Austria-Hungary. Manufacturing alloys. No. 912,246; Feb. 9; Sp. p. 2474; Gaz. vol. 139; p. 426.
- Kuzel, H., Baden, near Vienna, Austria-Hungary. Metal-filament electric glow-lamp. No. 912,247; Feb. 9; Sp. p. 2476; Gaz. vol. 139; p. 426.
- Kuzel, H., Baden, Austria-Hungary. Filament for electric glow-lamps. No. 914,354; Mar. 2; Sp. p. 1486; Gaz. vol. 140; p. 231.
- Kvenvold, J. O., Hartland, Minn. Horseshoe-calk. No. 930,296; Aug. 3; Sp. p. 1305; Gaz. vol. 145; p. 226.
- Kyle, J. A., Chicago, Ill. Coupon or tag for cartons. No. 911,884; Feb. 9; Sp. p. 1675; Gaz. vol. 139; p. 310.
- Kyle, J. D., Swissvale, assignor of one-half to S. E. Kyle, one-fourth to C. A. Warmcastle, and one-fourth to H. S. Richards, Pittsburg, Pa. Making decorated glass. No. 914,734; Mar. 9; Sp. p. 2282; Gaz. vol. 140; p. 382.
- Kyle, J. L., Seaforth, Ontario, Canada. Machine for sharpening lawn-mowers, skates, &c. No. 938,494; Nov. 2; Sp. p. 105; Gaz. vol. 148; p. 16.
- Kyle, P., and C. Long, Coal Bluff, Ind. Combined switch and signal. No. 920,348; May 4; Sp. p. 524; Gaz. vol. 142; p. 83.
- Kyle, S. E., *et al.* (See Kyle, J. D., assignor.)
- Kyle, W. O., Midvale, Ohio. Wrench. No. 909,613; Jan. 12; Sp. p. 2378; Gaz. vol. 138; p. 422.
- Kyle, W. O., Midvale, Ohio. Fence-post. No. 917,083; Apr. 6; Sp. p. 246; Gaz. vol. 141; p. 45.
- Kyndu Manufacturing Company. (See Flindall, J., assignor.)
- Kynett, W. H., Battle Creek, Mich. Temple for looms. No. 936,459; Oct. 12; Sp. p. 1817; Gaz. vol. 147; p. 302.
- L. Wolff Manufacturing Company. (See Clifford, J., assignor.)
- L. Wolff Manufacturing Company. (See Gavin, J. H., assignor.)
- L. Wolff Manufacturing Company. (See Gavin and Hoelscher, assignors.)
- L. Wolff Manufacturing Company. (See Hoelscher and Gavin, assignors.)
- L. C. Smith & Bros. Typewriter Company. (See Gabrielson, C., assignor.)
- L. C. Smith & Bros. Typewriter Company. (See Post, S. B., assignor.)
- L. C. C. Automatic Couplers Company. (See Cary, L. C., assignor.)
- L. E. Waterman Company. (See Baker, F. R., assignor.)
- L. M. Rumsev Mfg. Co. (See Noonan, A. E., assignor.)
- L. S. Starrett Co. (See Starrett, L. S., assignor.)
- L'note, J., Pittsfield, Mass. Saw-setting tool. No. 942,573; Dec. 7; Sp. p. 1135; Gaz. vol. 149; p. 184.
- La Batt, H. C., assignor to W. J. Herrick, Chicago, Ill. Clutch. No. 932,558; Aug. 31; Sp. p. 6191; Gaz. vol. 145; p. 1073.
- La Bauve, O. J., Edna, Tex. Coop or crate. No. 909,614; Jan. 12; Sp. p. 2379; Gaz. vol. 138; p. 423.
- La Bauve, O. J., Edna, Tex. Coop or crate. No. 909,615; Jan. 12; Sp. p. 2382; Gaz. vol. 138; p. 423.
- La Bauve, V. J., Houston, Tex. Windmill-motor. No. 924,909; June 15; Sp. p. 3899; Gaz. vol. 143; p. 664.
- La Baw, W., Asbury Park, N. J. Door-stop. No. 941,885; Nov. 30; Sp. p. 7561; Gaz. vol. 148; p. 1272.
- La Casse, H., Auburn, N. Y. Shaft-hanger. No. 931,129; Aug. 17; Sp. p. 3166; Gaz. vol. 145; p. 555.
- La Casse, H., Auburn, N. Y. Ball-bearing. No. 932,144; Aug. 24; Sp. p. 5354; Gaz. vol. 145; p. 913.
- La Chapelle, E. I., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 932,790; Aug. 31; Sp. p. 6709; Gaz. vol. 145; p. 1151.
- La Chapelle, F., Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Bobbin-winding machine. No. 935,263; Sept. 28; Sp. p. 4600; Gaz. vol. 146; p. 818.
- La Cour, J. L. (See Arnold and La Cour.)
- La Crone, O. A. (See Baeuerle, J. A., assignor.)
- La Dew, C. H., New York, N. Y. Pedal attachment for organs, pianolas, &c. No. 944,878; Dec. 28; Sp. p. 6143; Gaz. vol. 149; p. 1057.
- La Dow, J. E., Kellogg, Iowa. Wrench. No. 923,665; June 1; Sp. p. 1223; Gaz. vol. 143; p. 188.
- La Due, E. A., assignor to Chandler & Price Company, Cleveland, Ohio. Paper-cutting machine. No. 943,258; Dec. 14; Sp. p. 2635; Gaz. vol. 149; p. 446.
- La Fave, J. H., Defiance, Ohio. Metal package. No. 940,168; Nov. 16; Sp. p. 3820; Gaz. vol. 148; p. 649.
- La Fleur, C. E., Philadelphia, Pa. Automobile-tire. No. 931,879; Aug. 24; Sp. p. 4768; Gaz. vol. 145; p. 824.
- La Follette, J. (See Lindsay, L. J., assignor.)
- La Force, E. (See Themke and La Force.)
- La Grotta, F., assignor of one-fourth to J. Glickner and one-fourth to G. A. Stephens, New York, N. Y. Sash-balance. No. 937,703; Oct. 19; Sp. p. 4386; Gaz. vol. 147; p. 744.
- La Hodny, W., Buffalo, N. Y. Grinding and polishing machine. No. 944,678; Dec. 28; Sp. p. 5698; Gaz. vol. 149; p. 988.
- La Londe, F. X., Moosejaw, Saskatchewan, Canada. Shock-loading attachment for farm-wagons. No. 938,152; Oct. 26; Sp. p. 5344; Gaz. vol. 147; p. 913.
- La May, F. B., assignor to American Chemical Manufacturing & Mining Company, Rochester, N. Y. Lifting device. No. 919,731; Apr. 27; Sp. p. 5940; Gaz. vol. 141; p. 1019.
- La Motte, A., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Explosive and making the same. No. 911,019; Jan. 26; Sp. p. 5266; Gaz. vol. 138; p. 947.
- La Pearl, J. H., Chicago, Ill. Movable advertising-sign. No. 922,784; May 25; Sp. p. 5534; Gaz. vol. 142; p. 972.
- La Plant, H. S., Kennet, Cal. Sewing-machine. No. 916,333; Mar. 23; Sp. p. 5410; Gaz. vol. 140; p. 961.
- La Point, C. A., Eldora, Colo. Concentrating apparatus. No. 928,870; July 20; Sp. p. 4482; Gaz. vol. 144; p. 781.
- La Pointe, R. A., Riverside, Cal. Power-transmitting apparatus. No. 941,154; Nov. 23; Sp. p. 5983; Gaz. vol. 148; p. 1006.
- La Rose, A., assignor to La Rose Hair Compound Manufacturing Company, New York, N. Y. Non-refillable bottle. No. 943,425; Dec. 14; Sp. p. 2976; Gaz. vol. 149; p. 502.
- La Rose Hair Compound Manufacturing Company. (See La Rose, A., assignor.)
- La Rue, R. S., Bellefontaine, Ohio. Floor-scraping machine. No. 919,037; Apr. 20; Sp. p. 4316; Gaz. vol. 141; p. 754.
- La Salle Machine & Tool Company. (See Matthiessen, F. W., Jr., assignor.)
- La Shells, W. S., Benicia, Cal. Ore-separator. No. 922,163; May 18; Sp. p. 4242; Gaz. vol. 142; p. 741.
- La Shells, W. S., Berkeley, assignor to Klamath River Gold Mining Co., Benicia, Cal. Aerial tramway. No. 916,335; Mar. 23; Sp. p. 5414; Gaz. vol. 140; p. 962.
- La Société Anonyme des Anciens Etablissements Panhard et Levassor. (See Krebs, A., assignor.)
- La Société de Constructions Mécaniques d'Alais. (See Crochet, O., assignor.)
- La Société Electrochimique du Giffre. (See Trillon, J. B., assignor.)
- La Société Loziano & Finet. (See Loziano, L., assignor.)
- La Societe Ribayron et Victor. (See Victor, A., assignor.)
- La Sor, H. G., assignor to Fuller Manufacturing Company, New Haven, Conn. Insetting mechanism. No. 908,469; Jan. 5; Sp. p. 66; Gaz. vol. 138; p. 14.
- La Venture, J. B., Champlain, N. Y. Window-pane fastener. No. 922,785; May 25; Sp. p. 5536; Gaz. vol. 142; p. 973.
- La Vine, F., Dallas City, Ill. Pipe-cutting machine. No. 932,989; Aug. 31; Sp. p. 7062; Gaz. vol. 145; p. 1214.
- Laass, J. J., Syracuse, N. Y., assignor to Spirella Company, Meadville, Pa. Garment-stay. No. 908,468; Jan. 5; Sp. p. 65; Gaz. vol. 138; p. 14.
- Labadie, H. H. (See Schweitzer and Labadie.)
- Labelle F. N., Lowell, Mass. Pressure-regulating valve. No. 927,252; July 6; Sp. p. 1141; Gaz. vol. 144; p. 186.
- Labelle, V., Montreal, Quebec, Canada. Sofa-bed. No. 917,771; Apr. 13; Sp. p. 1626; Gaz. vol. 141; p. 302.
- Labofish, C. S., Washington, D. C., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 909,616; Jan. 12; Sp. p. 2385; Gaz. vol. 138; p. 423.
- Labofish, C. S., Washington, D. C., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 940,332; Nov. 16; Sp. p. 4185; Gaz. vol. 148; p. 706.
- Labofish, C. S., Washington, D. C., assignor to Union Typewriter Company, Jersey City, N. J. Tabulating device for type-writers. No. 940,395; Nov. 16; Sp. p. 4350; Gaz. vol. 148; p. 728.
- Labombard, E. W., Nashua, N. H. Box-folding machine. No. 915,971; Mar. 23; Sp. p. 4757; Gaz. vol. 140; p. 842.
- Labonty, N., Woonsocket, R. I. Dyeing, bleaching, and washing machine. No. 929,314; July 27; Sp. p. 5441; Gaz. vol. 144; p. 957.
- Laborde, J., Riverside, Cal. Combination curry-comb and brush. No. 932,559; Aug. 31; Sp. p. 6195; Gaz. vol. 145; p. 1074.
- Lacell, H. G. (See Kent and Lacell.)
- Lacey, H. A. (See Makean, D. O., assignor.)
- Lacey, K. M., assignor to F. J. Mahoney, Worcester, Mass. Sewing-machine guide. No. 926,703; June 29; Sp. p. 7487; Gaz. vol. 143; p. 1320.
- Lachicotte, P. H., Columbia, S. C. Knife-cleaner. No. 933,313; Sept. 7; Sp. p. 631; Gaz. vol. 146; p. 98.
- Lachman, L. S., New York, N. Y. Fence. No. 917,461; Apr. 6; Sp. p. 995; Gaz. vol. 141; p. 173.
- Lachman, L. S., New York, N. Y. Wire fence. No. 917,617; Apr. 6; Sp. p. 1272; Gaz. vol. 141; p. 225.
- Lachman, M., New York, N. Y. Electric welding. No. 923,128; May 25; Sp. p. 6268; Gaz. vol. 142; p. 1084.
- Lackawanna Steel Company. (See Boardman, C. S., assignor.)
- Lackawanna Steel Company. (See Kreidler, W. A., assignor.)
- Lacke, W. A., Chicago, Ill. Electrically-operated automatic switch. No. 936,329; Oct. 12; Sp. p. 1500; Gaz. vol. 147; p. 259.



*Alphabetical list of patentees—Continued.*

- Lackey, A., assignor to Samuel Cupples Woodenware Company, St. Louis, Mo. Mop-making machine. No. 935,264; Sept. 28; Sp. p. 4603; Gaz. vol. 146; p. 818.
- Lackey, O. F. (See Lawrence and Lackey.)
- Lackey, O. F., Baltimore, Md. Concrete scow. No. 933,314; Sept. 7; Sp. p. 633; Gaz. vol. 146; p. 98.
- Lackie, W. J. (See Littman and Lackie.)
- Lackie, W. J., assignor of one-half to W. M. Forsyth, Cleveland, Ohio. Rail. No. 920,758; May 4; Sp. p. 1339; Gaz. vol. 142; p. 218.
- Lackie, W. W., and D. J. Steele, Glasgow, Scotland. Arrangement for indicating and recording permanently the maximum demand for electrical energy on any circuit. No. 933,845; Sept. 14; Sp. p. 1806; Gaz. vol. 146; p. 298.
- Lackner, F., assignor to Neely Nut & Bolt Company, Pittsburg, Pa. Nut-machine. No. 911,599; Feb. 9; Sp. p. 1125; Gaz. vol. 139; p. 217.
- Lackner, R. J., New York, N. Y. Sign. No. 940,697; Nov. 23; Sp. p. 5000; Gaz. vol. 148; p. 853.
- Laclede Christy Clay Products Co. (See Girtanner, F., assignor.)
- Laclede-Christy Clay Products Company. (See Miller, R. H., assignor.)
- Laclede Manufacturing Company. (See Allison, J. E., assignor.)
- Lacock, J. F., Boston, Mass., assignor to Vortex Vacuum Company. Vacuum cleaning apparatus. No. 943,424; Dec. 14; Sp. p. 2975; Gaz. vol. 149; p. 502.
- Lacomme, E. L., Santa Monica, Cal. Advertising device. No. 918,868; Apr. 20; Sp. p. 3977; Gaz. vol. 141; p. 699.
- Lacoste, L., Montreal, Quebec, assignor to Lacoste Ship Brake Company Limited, Montreal, Canada. Ship-brake. No. 917,618; Apr. 6; Sp. p. 1273; Gaz. vol. 141; p. 225.
- Lacoste Ship Brake Company Limited. (See Lacoste, L., assignor.)
- Lacroix, F., San Antonio, Tex., assignor to Electrical Automatic Railroad Safety Signal Company, New York, N. Y. Electric signaling system for railways. No. 925,353; June 15; Sp. p. 4747; Gaz. vol. 143; p. 810.
- Lacroix, H., assignor to Usine Gènevoise de Degrossissage D'Or, Geneva, Switzerland. Electrolytic cell for separating constituents of a mixture of metal or an alloy. No. 912,859; Feb. 16; Sp. p. 3812; Gaz. vol. 139; p. 671.
- Lacroix, J., Fall River, assignor to Double Spring Shuttle Co., New Bedford, Mass. Loom-shuttle. No. 933,376; Sept. 7; Sp. p. 787; Gaz. vol. 146; p. 121.
- Lacy, B. B., Houston, Tex., assignor, by mesne assignments, to Anderson-Lacy Electric Headlight Company. Arc-lamp headlight. No. 911,409; Feb. 2; Sp. p. 746; Gaz. vol. 139; p. 129.
- Lacy, E. A., et al. (See Spiegel, J. F., assignor.)
- Lacy, H., Carlsholton, England. Construction of electromagnets. No. 928,136; July 13; Sp. p. 2953; Gaz. vol. 144; p. 505.
- Lacy, J. H., Bartow, Fla. Writing-guide. No. 926,427; June 29; Sp. p. 6976; Gaz. vol. 143; p. 1228.
- Lacy Manufacturing Company. (See French, J. R., assignor.)
- Lacy, W. E., Avon, N. Y. Seed-germinating tester. No. 940,167; Nov. 16; Sp. p. 3818; Gaz. vol. 148; p. 648.
- Ladd, A. F., Minneapolis, Minn. Cigar-box-hold holder. No. 917,462; Apr. 6; Sp. p. 996; Gaz. vol. 141; p. 173.
- Ladd, C., et al. (See Lee, H. V., O. S., and C. F., assignors.)
- Ladd, C. C. (See Krause, A. F., assignor.)
- Ladd, H. R., Washington, D. C. Mail-bag catching and delivering apparatus. No. 931,436; Aug. 17; Sp. p. 3839; Gaz. vol. 145; p. 662.
- Ladd, J. W., Saginaw, Mich. Stuffing-box. No. 923,671; June 1; Sp. p. 1231; Gaz. vol. 143; p. 190.
- Ladd, S. B., Washington, D. C. Treating slag. No. 929,142; July 27; Sp. p. 5056; Gaz. vol. 144; p. 898.
- Ladd, S. B., Washington, D. C. Smelting-furnace. No. 931,775; Aug. 24; Sp. p. 4560; Gaz. vol. 145; p. 792.
- Laddey, J. V., Arlington, N. J. Wind-shield for vehicles. No. 910,694; Jan. 26; Sp. p. 4637; Gaz. vol. 138; p. 843.
- Lademan, O. T., Milwaukee, Wis. Signaling system. No. 944,563; Dec. 28; Sp. p. 5472; Gaz. vol. 149; p. 949.
- Ladley, G. W. (See Gentle, W. M., assignor.)
- Ladoff, I., Schenectady, N. Y. Electric lamp. No. 913,016; Feb. 23; Sp. p. 4117; Gaz. vol. 139; p. 747.
- Ladoff, I., Cleveland, Ohio, assignor of thirty one-hundredths to P. C. Peck, New York, N. Y. Electrode or pencil for arc-lights. No. 909,428; Jan. 12; Sp. p. 2016; Gaz. vol. 138; p. 359.
- Ladue, H. A., Detroit, Mich. Coin-continuing vending-machine. No. 937,820; Oct. 26; Sp. p. 4626; Gaz. vol. 147; p. 802.
- Laemmle, C. (See Woodworth, D. C., assignor.)
- Laeufer, J., F. A. Thomas, and J. F. Norman, assignors to Lima Brake Shoe Company, Lima, Ohio. Composition of matter. No. 909,617; Jan. 12; Sp. p. 2390; Gaz. vol. 138; p. 424.
- Lafarie, G. M. N., Cognac, France. Combined type-writer and music-printer. No. 926,947; July 6; Sp. p. 500; Gaz. vol. 144; p. 82.
- Laffer, J. W., Catawba Island, Ohio. Insecticide. No. 914,430; Mar. 9; Sp. p. 1652; Gaz. vol. 140; p. 282.
- Laffer, J. W., Catawba Island, Ohio. Wood-blight composition. No. 939,273; Nov. 9; Sp. p. 1793; Gaz. vol. 148; p. 310.
- Lafferty, J. C., Lowman, W. Va. Casing or pipe wrench. No. 919,599; Apr. 27; Sp. p. 5679; Gaz. vol. 141; p. 976.
- Lafferty, R. C., Clarksburg, W. Va. Sign. No. 940,536; Nov. 16; Sp. p. 4644; Gaz. vol. 148; p. 774.
- Laffer, F. E., Walla Walla, Wash. Match-box. No. 925,485; June 22; Sp. p. 5003; Gaz. vol. 143; p. 883.
- Laffeur, B., Abbotsford, British Columbia, Canada. Straight-edge for circular saws. No. 940,032; Nov. 16; Sp. p. 3477; Gaz. vol. 148; p. 601.
- Laffin and Rand Powder Company. (See Dobbs, C., assignor.)
- Laffin, S. C., assignor to American Optical Company, Southbridge, Mass. Spectacle-temple. No. 931,776; Aug. 24; Sp. p. 4562; Gaz. vol. 145; p. 792.
- Lafrentz, G., Chicago, Ill. Fish-scaler. No. 916,725; Mar. 30; Sp. p. 6214; Gaz. vol. 140; p. 1112.
- Laganke, C. F., Harrisburg, Pa., assignor to Elliott-Fisher Company, New York, N. Y. Variable-spacing mechanism for combined type-writing and calculating machines. No. 929,675; Aug. 3; Sp. p. 62; Gaz. vol. 145; p. 13.
- Laganke, C. F., and J. A. Smith, Cleveland, Ohio, assignors to Elliott-Fisher Company, New York, N. Y. Decimal-spacing mechanism for type-writing machines. No. 922,601; May 25; Sp. p. 5154; Gaz. vol. 142; p. 914.
- Lage, W. J., assignor of one-half to W. A. Husted, Topeka, Kans. Underframe for freight-cars. No. 920,759; May 4; Sp. p. 1340; Gaz. vol. 142; p. 218.
- Lager, L. (See Wilson, P. H., assignor.)
- Lagergren, C., Red Oak, Iowa, assignor of one-half to I. H. Vail, Omaha, Nebr. Roofing-strip. No. 936,139; Oct. 5; Sp. p. 1137; Gaz. vol. 147; p. 173.
- Lagergren, J. E., assignor, by mesne assignments, to Ikonograph Company of America, New York, N. Y. Kinetoscopic apparatus. No. 939,274; Nov. 9; Sp. p. 1794; Gaz. vol. 148; p. 310.
- Lagman, O. A., et al. (See Davis, O. S., assignor.)
- Lagonda Manufacturing Company. (See Hauer, E. E., assignor.)
- Lagonda Manufacturing Company. (See Weinland, H. F., assignor.)
- Lagonda Manufacturing Company. (See Weinland and Ainge, assignors.)
- Lahan, E. J., Quincy, Ill. Machine for making sand molds. No. 919,600; Apr. 27; Sp. p. 5680; Gaz. vol. 141; p. 976.
- Lahart, C. E., Cahuenga, Cal. Window or door seal and lock. No. 928,466; July 20; Sp. p. 3681; Gaz. vol. 144; p. 647.
- Lahart, J. F., Minneapolis, Minn. Metal-reinforced railway-tie. No. 942,267; Dec. 7; Sp. p. 508; Gaz. vol. 149; p. 79.
- Lahart, J. F., Minneapolis, Minn. Metal-reinforced railway-tie. No. 942,268; Dec. 7; Sp. p. 509; Gaz. vol. 149; p. 80.
- Lahaye, F., et al. (See Lewis, W. S., assignor.)
- Lahey, D. E., Glen Jean, and G. R. Williams, Thurmond, W. Va. Means for protecting the operatives of railway rolling-stock against injury. No. 909,618; Jan. 12; Sp. p. 2392; Gaz. vol. 138; p. 424.
- Lahmann, H. (See Pogany and Lahmann.)
- Lahmers, C. E., New Philadelphia, Ohio. Automatic cut-off for gas-mains. No. 942,832; Dec. 7; Sp. p. 1654; Gaz. vol. 149; p. 270.
- Lahr, H. I., South Bend, Ind. Car-seal. No. 923,861; June 8; Sp. p. 1713; Gaz. vol. 143; p. 285.
- Laible, F., assignor to F. A. Neider Company, Augusta, Ky. Forming carriage-curtain knobs. No. 937,157; Oct. 19; Sp. p. 3243; Gaz. vol. 147; p. 566.
- Laidley, R. E., St. Louis, Mo. Collapsible chicken-coop. No. 911,136; Feb. 2; Sp. p. 228; Gaz. vol. 139; p. 41.
- Lain, D. E., assignor of one-half to E. G. Jewett, Bellingham, Wash. Superheated-steam dry-kiln. No. 918,334; Apr. 13; Sp. p. 2779; Gaz. vol. 141; p. 493.
- Lain, D. E., assignor of one-half to E. G. Jewett, Bellingham, Wash. Drying materials with superheated steam. No. 918,335; Apr. 13; Sp. p. 2785; Gaz. vol. 141; p. 493.
- Laird, J. M., Huntingdon, Pa. Snow-guard for roofs. No. 939,516; Nov. 9; Sp. p. 2366; Gaz. vol. 148; p. 392.
- Laist, F. (See Kuchs, O. M., assignor.)
- Laist, F., assignor of one-half to O. M. Kuchs, Anaconda, Mont. Centrifugal concentrator and classifier. No. 935,311; Sept. 28; Sp. p. 4692; Gaz. vol. 146; p. 834.
- Laisy, O. J., Cleveland, Ohio. Air-ship. No. 916,456; Mar. 30; Sp. p. 5685; Gaz. vol. 140; p. 1027.
- Laitner, C. B., Detroit, Mich. Broom-hood holder. No. 924,246; June 8; Sp. p. 2526; Gaz. vol. 143; p. 411.
- Laitte, L. B. de. (See Louis, A. A., assignor.)
- Lake, A. B., Kearney, Nebr. Door-lock. No. 930,392; Aug. 10; Sp. p. 1555; Gaz. vol. 145; p. 281.
- Lake, C. J., (name changed from J. C. Lake by judicial order,) Bridgeport, Conn. Fluid-propelled vessel. No. 913,515; Feb. 23; Sp. p. 5118; Gaz. vol. 139; p. 914.

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- Lake, C. J., (name changed from J. C. Lake by judicial order,) Bridgeport, Conn. Mixing and regulating valve. No. 913,516; Feb. 23; Sp. p. 5120; Gaz. vol. 139; p. 914.
- Lake, C. J., (name changed from J. C. Lake by judicial order,) Bridgeport, Conn. Motive-power apparatus. No. 914,583; Mar. 9; Sp. p. 1948; Gaz. vol. 140; p. 333.
- Lake, C. J., (name changed from J. C. Lake by judicial order,) Bridgeport, Conn. Locomotion for vessels, vehicles, or other moving bodies or objects. No. 915,972; Mar. 23; Sp. p. 4760; Gaz. vol. 140; p. 842.
- Lake, C. J., (name changed from J. C. Lake by judicial order,) Bridgeport, Conn. Power-fluid generator. No. 916,726; Mar. 30; Sp. p. 6214; Gaz. vol. 140; p. 1113.
- Lake, C. J., (name changed from J. C. Lake by judicial order,) Bridgeport, Conn. Air-engine. No. 917,317; Apr. 6; Sp. p. 739; Gaz. vol. 141; p. 126.
- Lake, C. J., (name changed from J. C. Lake by judicial order,) Bridgeport, Conn. Aerial navigation. No. 918,336; Apr. 13; Sp. p. 2788; Gaz. vol. 141; p. 493.
- Lake, C. J., (name changed from J. C. Lake by judicial order,) Bridgeport, Conn. Elastic-fluid motor. No. 919,289; Apr. 20; Sp. p. 4980; Gaz. vol. 141; p. 835.
- Lake, C. J., (name changed from J. C. Lake by judicial order,) Bridgeport, Conn. Power-generating apparatus. No. 942,873; Dec. 7; Sp. p. 1757; Gaz. vol. 149; p. 284.
- Lake, C. J., (name changed from J. C. Lake by judicial order,) Bridgeport, Conn., and S. Heath, Washington, D. C.; said Heath assignor to said Lake. Aerial vessel. No. 913,517; Feb. 23; Sp. p. 5122; Gaz. vol. 139; p. 915.
- Lake, F. G., Prestbury, England. Workman's time-recorder. No. 927,805; July 13; Sp. p. 2285; Gaz. vol. 144; p. 395.
- Lake, I. N., Flasher, N. D. Rearsight for shotguns. No. 910,395; Jan. 19; Sp. p. 4011; Gaz. vol. 138; p. 720.
- Lake, J. C. (See Lake, C. J.)
- Lake, J. G., Gloversville, N. Y. Glove. No. 930,197; Aug. 3; Sp. p. 1199; Gaz. vol. 145; p. 196.
- Lake, J. J. (See Cuddihy, R. S., assignor.)
- Lake, S., Bridgeport, Conn. Navigating-turret for submergible vessels. No. 925,706; June 22; Sp. p. 5457; Gaz. vol. 143; p. 954.
- Lake, S., Bridgeport, Conn. Torpedo-launching device. No. 925,707; June 22; Sp. p. 5463; Gaz. vol. 143; p. 955.
- Lake, S., Bridgeport, Conn. Apparatus for ventilating and cooling storage-battery systems. No. 925,708; June 22; Sp. p. 5472; Gaz. vol. 143; p. 955.
- Lake, S., Bridgeport, Conn. Submarine vessel. No. 926,065; June 22; Sp. p. 6225; Gaz. vol. 143; p. 1074.
- Lake, S., Bridgeport, Conn. Air-ship. No. 928,524; July 20; Sp. p. 3785; Gaz. vol. 144; p. 665.
- Lake, S., Bridgeport, Conn. Heat-engine plant. No. 933,080; Sept. 7; Sp. p. 86; Gaz. vol. 146; p. 15.
- Lake, S., Bridgeport, Conn., and E. L. Peacock, West Mount, Montreal, Quebec, Canada, assignors to Lake Torpedo Boat Company. Submarine or submergible boat. No. 926,007; June 22; Sp. p. 6096; Gaz. vol. 143; p. 1055.
- Lake Torpedo Boat Company. (See Lake and Peacock, assignors.)
- Lake, W., Washington, D. C. Manufacture of artificial stone. No. 938,248; Oct. 26; Sp. p. 5547; Gaz. vol. 147; p. 948.
- Lakeman, E. H. (See Partridge and Hertel, assignors.)
- Laker, J. W. E., Victoria, British Columbia, Canada. Piano-hammer. No. 912,860; Feb. 16; Sp. p. 3813; Gaz. vol. 139; p. 672.
- Laker, J. W. E., Victoria, British Columbia, Canada. Holder for safety-razor blades. No. 922,296; May 18; Sp. p. 4519; Gaz. vol. 142; p. 784.
- Lakhovsky, G., Paris, France. Means for fastening in position railway-spikes or the like. No. 909,619; Jan. 12; Sp. p. 2395; Gaz. vol. 138; p. 424.
- Laking, D., *et al.* (See Laking, E., assignor.)
- Laking, E., Jr., *et al.* (See Laking, E., assignor.)
- Laking, E., Grant Park, assignor of one-fifth to E. Laking, Jr., one-fifth to D. Laking, Danville, one-fifth to Z. Laking, and one-fifth to F. Laking, Chicago Heights, Ill. Corn-harvesting machine. No. 927,660; July 13; Sp. p. 2000; Gaz. vol. 144; p. 348.
- Laking, F., *et al.* (See Laking, E., assignor.)
- Laking, Z., *et al.* (See Laking, E., assignor.)
- Lallie, J. S. J., Denver, Colo. Current-indicating apparatus. No. 914,959; Mar. 9; Sp. p. 2706; Gaz. vol. 140; p. 455.
- Lally, J., *et al.* (See Moore, J., assignor.)
- Lalonde, J., Montreal, Quebec, Canada. Stair-guard. No. 938,771; Nov. 2; Sp. p. 686; Gaz. vol. 148; p. 110.
- Lamadrid, J. M., St. Louis, Mo. Hanging-clasp. No. 918,337; Apr. 13; Sp. p. 2793; Gaz. vol. 141; p. 494.
- Lamarre, A. (See Goulet and Lamarre.)
- Lamb, A. G., Torrington, Conn. Hand-tool. No. 922,602; May 25; Sp. p. 5161; Gaz. vol. 142; p. 914.
- Lamb, C. B., Danville, Ga. Collapsible cot. No. 909,620; Jan. 12; Sp. p. 2396; Gaz. vol. 138; p. 425.
- Lamb, C. E., Liberal, Kans. Door-stop. No. 916,457; Mar. 30; Sp. p. 5687; Gaz. vol. 140; p. 1028.
- Lamb, C. I., Chattanooga, Tenn. Sound-reproducing machine. No. 908,778; Jan. 5; Sp. p. 731; Gaz. vol. 138; p. 114.
- Lamb, D. C., Watts, assignor to J. C. Kenmonth, Los Angeles, Cal. Adjustable downdraft oil-burner. No. 926,008; June 22; Sp. p. 6102; Gaz. vol. 143; p. 1055.
- Lamb, E. E., Pulaski, Va. Fresh-air conveyer. No. 941,370; Nov. 30; Sp. p. 6448; Gaz. vol. 148; p. 1098.
- Lamb, F. E., Potsdam, N. Y., assignor of one-half to R. A. Lavery, Wakefield, Mass. Washing-machine. No. 920,760; May 4; Sp. p. 1341; Gaz. vol. 142; p. 218.
- Lamb, J., San Francisco, Cal. Glass-cutting tool. No. 939,843; Nov. 9; Sp. p. 3063; Gaz. vol. 148; p. 505.
- Lamb, J. F., New Britain, Conn. Extensible frame for molders' use. No. 914,584; Mar. 9; Sp. p. 1953; Gaz. vol. 140; p. 333.
- Lamb, J. F., New Britain, Conn. Molder's flask. No. 914,585; Mar. 9; Sp. p. 1955; Gaz. vol. 140; p. 333.
- Lamb, J. G., and T. H. White, Sydney, New South Wales, Australia. Apparatus for displaying and storing curtains and other articles. No. 915,610; Mar. 16; Sp. p. 4028; Gaz. vol. 140; p. 695.
- Lamb, J. G. B., Williamston, Mich. Door-hanger. No. 930,393; Aug. 10; Sp. p. 1557; Gaz. vol. 145; p. 282.
- Lamb, J. L., and T. C. Sheehan, Philadelphia, Pa. Air-drier for pneumatic lines. No. 917,619; Apr. 6; Sp. p. 1277; Gaz. vol. 141; p. 225.
- Lamb Knitting Machine Co. (See Parker, C. W., assignor.)
- Lamb Knitting Machine Company. (See Usher, C. H., assignor.)
- Lamb, O. S. (See Lamb, W. G. and O. S.)
- Lamb, R. B., Mount Holly, N. J. Protector for telegraph and other poles. No. 937,448; Oct. 19; Sp. p. 3878; Gaz. vol. 147; p. 660.
- Lamb, S. R., St. Louis, Mo. Calculating device. No. 909,621; Jan. 12; Sp. p. 2399; Gaz. vol. 138; p. 425.
- Lamb, V. B., New Haven, Conn., assignor to Keystone Brake-Shoe Company, New York, N. Y. Braking device. No. 915,031; Mar. 9; Sp. p. 2823; Gaz. vol. 140; p. 478.
- Lamb, W. G., Oelwein, and O. S. Lamb, Waterloo, Iowa. Chance-controlled indicator. No. 934,550; Sept. 21; Sp. p. 3171; Gaz. vol. 146; p. 553.
- Lamb, W. H., assignor to C. H. Allen & Co., Attleboro, Mass. Hot-blast drying-machine. No. 920,585; May 4; Sp. p. 993; Gaz. vol. 142; p. 162.
- Lamb, W. R., Bowie, Tex. Snap cotton crusher and separator. No. 917,318; Apr. 6; Sp. p. 743; Gaz. vol. 141; p. 126.
- Lamberger, H., Leipzig, Germany. Bronzing-machine. No. 916,330; Mar. 23; Sp. p. 5405; Gaz. vol. 140; p. 960.
- Lambert, A., Newark, N. J. Reverse-gear for hoisting-machines and analogous uses. No. 913,900; Mar. 2; Sp. p. 497; Gaz. vol. 140; p. 80.
- Lambert, A., Newark, N. J. Duplex gearing for hoisting-drums. No. 913,901; Mar. 2; Sp. p. 500; Gaz. vol. 140; p. 81.
- Lambert, A., Newark, N. J. Skip or load-carrier. No. 915,363; Mar. 16; Sp. p. 3518; Gaz. vol. 140; p. 614.
- Lambert, A., Newark, N. J. Duplex thrust device for friction-clutches. No. 938,772; Nov. 2; Sp. p. 687; Gaz. vol. 148; p. 110.
- Lambert, C. (See Diamanti and Lambert.)
- Lambert, E. A., assignor of forty-nine one-hundredths to J. C. Schwartz, Allentown, Pa. Antirefillable bottle. No. 926,009; June 22; Sp. p. 6104; Gaz. vol. 143; p. 1055.
- Lambert, F. B., Chicago, Ill. Clay-working machine. No. 914,735; Mar. 9; Sp. p. 2283; Gaz. vol. 140; p. 382.
- Lambert, F. J. (See Dubisee, J., assignor.)
- Lambert, G., and H. A. Cardozo, assignors to Société d'Etudes pour la Fabrication des Tubes sans Soudure (Brevets et Procédés Lambert-Cardozo), Paris, France. Feed mechanism for rolling-mills. No. 923,189; June 1; Sp. p. 144; Gaz. vol. 143; p. 24.
- Lambert, G. A., Anderson, Ind. Folding bed-couch. No. 944,334; Dec. 28; Sp. p. 4930; Gaz. vol. 149; p. 869.
- Lambert, G. A., Anderson, Ind. Bed-couch. No. 944,564; Dec. 28; Sp. p. 5476; Gaz. vol. 149; p. 950.
- Lambert, G. H., Asheville, N. C. Machine for boring logs. No. 936,330; Oct. 12; Sp. p. 1502; Gaz. vol. 147; p. 259.
- Lambert, H. L., Rouen, France. Locomotive track-sander. No. 941,457; Nov. 30; Sp. p. 6650; Gaz. vol. 148; p. 1127.
- Lambert, H. M., Portland, Oreg. Cat-fender. No. 921,716; May 18; Sp. p. 3345; Gaz. vol. 142; p. 506.
- Lambert, J. (See Horn, J., assignor.)
- Lambert, J. V., Chicago, Ill. Pneumatic heel for boots and shoes. No. 925,354; June 15; Sp. p. 4751; Gaz. vol. 143; p. 811.
- Lambert, L. C., Somerset, Pa. Farmer's and harvester's combination-whip. No. 934,674; Sept. 21; Sp. p. 3422; Gaz. vol. 146; p. 597.
- Lambert, M., Charleroi, Belgium. Railway truck or wagon. No. 909,621; Jan. 19; Sp. p. 2989; Gaz. vol. 138; p. 554.
- Lambert, N., Rolla, N. D. Respirator. No. 909,002; Jan. 5; Sp. p. 1175; Gaz. vol. 138; p. 187.
- Lambert, W. J., North Yakima, and E. P. Dopps, Sunnyside, Wash. Lock. No. 925,199; June 15; Sp. p. 4472; Gaz. vol. 143; p. 763.
- Lamberton, I. M. (See Meek, W. M., assignor.)



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 Lamberty, J., assignor of one-half to B. Wahl, Kewanee, Ill. Pipe-puller. No. 915,866; Mar. 23; Sp. p. 4551; Gaz. vol. 140; p. 808.  
 Lambeth, J. B., Lebanon, Mo. Nut-lock. No. 936,331; Oct. 12; Sp. p. 1503; Gaz. vol. 147; p. 280.  
 Lambin, L. (See Ellefsen and Lambin.)  
 Lambrecht, H. L. Sullivan, Ill. Hasp-fastener. No. 944,792; Dec. 28; Sp. p. 5953; Gaz. vol. 149; p. 1026.  
 Lambrich, M. J., Buffalo, N. Y. Garment-retainer. No. 929,863; Aug. 3; Sp. p. 509; Gaz. vol. 145; p. 82.  
 Lamburth, C. E., San Francisco, Cal. Reinforced-concrete pile for pier and foundation construction. No. 941,078; Nov. 23; Sp. p. 5810; Gaz. vol. 148; p. 980.  
 Lamer, J., Traer, Iowa. Single-trigger mechanism for double-barrel shotguns. No. 930,975; Aug. 10; Sp. p. 2798; Gaz. vol. 145; p. 474.  
 Lamiell, E. H., and H. L. Hurst, assignors to H. L. Hurst Manufacturing Company, Canton, Ohio. Spraying apparatus. No. 912,966; Feb. 16; Sp. p. 4015; Gaz. vol. 139; p. 704.  
 Laminated Belting Company. (See Hendry, A., assignor.)  
 Lamison, M. W., Wilkinsburg, Pa. Driving mechanism for revoluble receptacles. No. 920,761; May 4; Sp. p. 1343; Gaz. vol. 142; p. 218.  
 Lamkin, L. D., Gibtown, Tex., assignor to H. A. Smith, Gurley, Ala. Hay-rake. No. 931,012; Aug. 10; Sp. p. 2901; Gaz. vol. 145; p. 488.  
 Lamme, B. G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric apparatus. No. 911,018; Jan. 26; Sp. p. 5265; Gaz. vol. 138; p. 947.  
 Lamme, B. G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 913,017; Feb. 23; Sp. p. 4118; Gaz. vol. 139; p. 748.  
 Lamme, B. G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective device for commutator-type alternating-current motors. No. 923,666; June 1; Sp. p. 1224; Gaz. vol. 143; p. 189.  
 Lamme, B. G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Winding for electrical machines. No. 923,667; June 1; Sp. p. 1225; Gaz. vol. 143; p. 189.  
 Lamme, B. G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical equalizing system. No. 924,799; June 15; Sp. p. 3666; Gaz. vol. 143; p. 628.  
 Lamme, B. G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Method of and means for operating dynamo-electric machines. No. 925,355; June 15; Sp. p. 4752; Gaz. vol. 143; p. 811.  
 Lamme, B. G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical load-equalizing system. No. 925,356; June 15; Sp. p. 4754; Gaz. vol. 143; p. 811.  
 Lamme, B. G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical equalizer system. No. 925,357; June 15; Sp. p. 4756; Gaz. vol. 143; p. 812.  
 Lamme, B. G., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Winding for armatures of dynamo-electric machines. No. 933,765; Sept. 14; Sp. p. 1645; Gaz. vol. 146; p. 271.  
 Lamme, B. G., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, East Pittsburg, Pa. Commutator for dynamo-electric machines. No. 931,130; Aug. 17; Sp. p. 3168; Gaz. vol. 145; p. 555.  
 Lamme, B. G., R. S. Feicht, Pittsburg, and G. H. Garcelon, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 940,698; Nov. 23; Sp. p. 5001; Gaz. vol. 148; p. 854.  
 Lammon, H., and J. Manska, Lebanon, S. D. Mold. No. 910,695; Jan. 26; Sp. p. 4638; Gaz. vol. 138; p. 843.  
 Lamon, C. A. (See Brown, J. D., assignor.)  
 Lamond, D., Pittsburg, Pa. Checker-brick for hot-blast stoves. No. 935,372; Sept. 28; Sp. p. 4823; Gaz. vol. 146; p. 853.  
 Lamont, A., and L. C. Steers, Detroit, Mich. Timing device for explosive-engines. No. 920,159; May 4; Sp. p. 131; Gaz. vol. 142; p. 20.  
 Lamont, J., and D. E. McCombs, Como, Ill. Vehicle-seat. No. 922,157; May 18; Sp. p. 4235; Gaz. vol. 142; p. 740.  
 Lamont, J. A., assignor to Dominion Car & Foundry Company, Ltd., Montreal, Canada. Car-bolster. No. 926,752; July 6; Sp. p. 93; Gaz. vol. 144; p. 15.  
 Lamont, R. P., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Retainer for knuckle pivot-pins. No. 929,864; Aug. 3; Sp. p. 511; Gaz. vol. 145; p. 82.  
 Lamoreaux, J. W., Massillon, Ohio. Car-brake. No. 925,640; June 22; Sp. p. 5336; Gaz. vol. 143; p. 935.  
 Lamoreux, J. H. (See Parrish and Lamoreux.)  
 Lamotte, E. V., Portland, Oreg. Nut-lock. No. 919,034; Apr. 20; Sp. p. 4311; Gaz. vol. 141; p. 753.  
 Lampel, E., Dresden, Germany. Spring-fork for bicycles. No. 937,614; Oct. 19; Sp. p. 4207; Gaz. vol. 147; p. 716.  
 Lâmpf, M. (See Lâmpf, M. and M.)  
 Lâmpf, M. and M., Swissvale, Pa. Road-machine. No. 938,249; Oct. 26; Sp. p. 5548; Gaz. vol. 147; p. 948.  
 Lampman, J. B., and A. Kittelberger, assignors to International Steam Pump Company, New York, N. Y. Air-compressor. No. 926,124; June 29; Sp. p. 6353; Gaz. vol. 143; p. 1128.  
 Lamprecht, E., Washington, D. C. Combined match dispenser and igniter. No. 925,200; June 15; Sp. p. 4475; Gaz. vol. 143; p. 764.  
 Lamprecht, E., Washington, D. C. Combined match receptacle and igniter. No. 925,924; June 22; Sp. p. 5952; Gaz. vol. 143; p. 1027.  
 Lampson, R. D., assignor of one-half to J. H. Thompson, New York, N. Y. Telephonic recording apparatus. No. 916,458; Mar. 30; Sp. p. 5689; Gaz. vol. 140; p. 1028.  
 Lamson Consolidated Store Service Company. (See Ames and Litchfield, assignors.)  
 Lamson Consolidated Store Service Company. (See Cowley, J. T., assignor.)  
 Lamson Consolidated Store Service Company. (See Jennings, C. S., assignor.)  
 Lamson Consolidated Store Service Company. (See Libby, C. R., assignor.)  
 Lamson Consolidated Store Service Company. (See Litchfield, I. W., assignor.)  
 Lamson Consolidated Store Service Company. (See Pearsall, A. W., assignor.)  
 Lamson Consolidated Store Service Company. (See Phillips, E. C., assignor.)  
 Lamson Consolidated Store Service Company. (See Taisey, F. R., assignor.)  
 Lamson, F. S., assignor to Cosmos Construction Company, Washington, D. C. Gas air-heater. No. 937,821; Oct. 26; Sp. p. 4631; Gaz. vol. 147; p. 802.  
 Lamson, F. S., assignor to Cosmos Construction Company, Washington, D. C. Laying concrete pavement. No. 941,886; Nov. 30; Sp. p. 7561; Gaz. vol. 148; p. 1272.  
 Lamson, J. D. H. (See Huyck and Lamson.)  
 Lamson, W. H. (See Lowe, R. A., assignor.)  
 Lamson, W. S. (See Hollowell, A., assignor.)  
 Lanaux, A. A. (See Janes and Lanaux.)  
 Lanaux, A. A., Beaumont, assignor to C. W. G. Rareshide, Houston, Tex. Journal-bearing. No. 918,453; Apr. 13; Sp. p. 3019; Gaz. vol. 141; p. 531.  
 Lancaster, C. F., Petoskey, Mich. Concrete construction. No. 920,160; May 4; Sp. p. 133; Gaz. vol. 142; p. 21.  
 Lancaster, C. P., Jonesboro, assignor of one-half to J. C. Stoebe, Marion, Ind. Rail-joint. No. 916,880; Mar. 30; Sp. p. 6495; Gaz. vol. 140; p. 1160.  
 Lancaster, J. A., *et al.* (See Bryant, W. A., assignor.)  
 Lancaster, L. M., Philadelphia, Pa. Automatic flush for water-closets. No. 926,263; June 29; Sp. p. 6660; Gaz. vol. 143; p. 1176.  
 Lancaster, L. M., Philadelphia, Pa. Hydrant. No. 930,770; Aug. 10; Sp. p. 2360; Gaz. vol. 145; p. 408.  
 Lancaster, R., Newark, N. J. Vehicle-spring. No. 917,953; Apr. 13; Sp. p. 1996; Gaz. vol. 141; p. 363.  
 Lance, J. H., Kingston, Pa. Dumping-bucket. No. 916,331; Mar. 23; Sp. p. 5406; Gaz. vol. 140; p. 961.  
 Lancelotte, A., Washington, D. C. Hair-cutting device. No. 913,005; Feb. 23; Sp. p. 4102; Gaz. vol. 139; p. 744.  
 Lancy, R. A., Townsend, Mass., assignor to J. Spaulding & Sons Co., Milton, N. H. Cutting-machine. No. 919,363; Apr. 27; Sp. p. 5157; Gaz. vol. 141; p. 894.  
 Lanchester, G. H., Birmingham, England. Gear-actuating mechanism for motor-vehicles. No. 941,261; Nov. 23; Sp. p. 6204; Gaz. vol. 148; p. 1041.  
 Land, E., Grand Rapids, Mich., assignor to M. G. Kellogg, Chicago, Ill. Telephone-exchange system. (Reissue.) No. 12,943; Apr. 20; Sp. p. 5005; Gaz. vol. 141; p. 839.  
 Land-and Seekabelwerke Aktiengesellschaft. (See Herrmann, W., assignor.)  
 Landau, D., San Francisco, Cal. Protecting-guard for siphons, &c. No. 915,364; Mar. 16; Sp. p. 3521; Gaz. vol. 140; p. 614.  
 Landau, D., San Francisco, Cal. Stopper for bottles containing aerated liquids. No. 922,158; May 18; Sp. p. 4236; Gaz. vol. 142; p. 740.  
 Landau, D., San Francisco, Cal. Apparatus for filling receptacles with liquids. No. 927,983; July 13; Sp. p. 2665; Gaz. vol. 144; p. 454.  
 Landau, D., San Francisco, Cal. Bottle-stopper. No. 941,788; Nov. 30; Sp. p. 7344; Gaz. vol. 148; p. 1238.  
 Landells, W. G., Coburg, Victoria, Australia. Self-heating adjustable cattle-branding appliance. No. 926,881; July 6; Sp. p. 365; Gaz. vol. 144; p. 59.  
 Landells, W. G., Coburg, and H. J. Huckson, Pakenham, Gippsland, Victoria, Australia. Self-heating soldering-iron. No. 937,449; Oct. 19; Sp. p. 3879; Gaz. vol. 147; p. 660.  
 Landenberger, R., Chicago, Ill. Envelop. No. 941,525; Nov. 30; Sp. p. 6786; Gaz. vol. 148; p. 1150.  
 Landers, A. W. (See Landers, C. W. and A. W.)  
 Landers, C. W. and A. W., Highland Home, Ala. Plow. No. 942,918; Dec. 14; Sp. p. 1898; Gaz. vol. 149; p. 331.

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- Landers, Frary and Clark. (See Smith and Curtiss, assignors.)  
 Landers, Frary and Clark. (See Walker, G., assignor.)  
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 Landers, J. D., and G. Johnson, Winnipeg, Manitoba, Canada. Lamp. No. 914,148; Mar. 2; Sp. p. 1049; Gaz. vol. 140; p. 166.  
 Landes, J. C., Collegeville, Pa. Automatic gas-lighter. No. 916,459; Mar. 30; Sp. p. 5693; Gaz. vol. 341; p. 1028.  
 Landear, W. R., Brooklyn, assignor to Warp Twisting-In Machine Company, New York, N. Y. Twisting-in machine. No. 911,885; Feb. 9; Sp. p. 1676; Gaz. vol. 139; p. 311.  
 Landear, W. R., Brooklyn, assignor to Warp Twisting-In Machine Company, New York, N. Y. Joining threads by twisting. No. 911,886; Feb. 9; Sp. p. 1679; Gaz. vol. 139; p. 311.  
 Landgraf, J. P., Mishawaka, Ind. Crank-case for engines. No. 934,675; Sept. 21; Sp. p. 3423; Gaz. vol. 146; p. 597.  
 Landgrebe, K. H. (See Reinecke, Landgrebe, and Wilhelm.)  
 Landgrebe, K. L., Bethlehem, Pa. Stock-distribution for blast-furnaces. No. 918,172; Apr. 13; Sp. p. 2452; Gaz. vol. 141; p. 439.  
 Landgrebe, K. L., Bethlehem, Pa. Metallic railway-tie. No. 920,161; May 4; Sp. p. 134; Gaz. vol. 142; p. 21.  
 Landgren, C. J., Rockford, Ill. Knife. No. 932,874; Aug. 31; Sp. p. 6855; Gaz. vol. 145; p. 1177.  
 Landholm, V., Westpoint, Nebr. Loader. No. 922,159; May 18; Sp. p. 4237; Gaz. vol. 142; p. 740.  
 Landine, P. N., New Haven, assignor to Rostand Mfg. Co., Milford, Conn. Car-rack. No. 938,153; Oct. 26; Sp. p. 5355; Gaz. vol. 147; p. 913.  
 Landis, A. B., Waynesboro, Pa. Grinding-machine. No. 921,717; May 18; Sp. p. 3347; Gaz. vol. 142; p. 506.  
 Landis, C. W., *et al.* (See Scott and Dilgard, assignors.)  
 Landis, E. F., Waynesboro, Pa. Grinding or abrading wheel. No. 909,913; Jan. 19; Sp. p. 2991; Gaz. vol. 138; p. 554.  
 Landis, F. F., Waynesboro, Pa. Blast-fan. No. 918,559; Apr. 20; Sp. p. 3260; Gaz. vol. 141; p. 594.  
 Landis, F. F., Waynesboro, Pa. Self-oiling journal-bearing. No. 927,361; July 6; Sp. p. 1317; Gaz. vol. 144; p. 219.  
 Landis, G. C., York, Pa., assignor to American Phosphorus Company, Camden, N. J. Electric terminal. No. 922,917; May 25; Sp. p. 5826; Gaz. vol. 142; p. 1016.  
 Landis, G. C., York, Pa., assignor to American Phosphorus Company, Camden, N. J. Electric furnace. No. 932,296; Aug. 24; Sp. p. 5654; Gaz. vol. 145; p. 964.  
 Landis, O. M., Reading, Pa. Tile-mounting. No. 915,973; Mar. 23; Sp. p. 4763; Gaz. vol. 140; p. 843.  
 Landis, W., *et al.* (See Scott and Dilgard, assignors.)  
 Landkamer, L., Alexandria, Nebr. Whip-socket bracket. No. 935,664; Oct. 5; Sp. p. 88; Gaz. vol. 147; p. 15.  
 Landkrohn, J. C., Jewett, Ohio. Lid-holder for cooking vessels. No. 927,554; July 13; Sp. p. 1741; Gaz. vol. 144; p. 311.  
 Landon, A., Buffalo, N. Y., assignor to American Radiator Company. Radiator. No. 912,002; Feb. 9; Sp. p. 2002; Gaz. vol. 139; p. 350.  
 Landon, A. W., Canton, Pa. Piano and organ box. No. 908,779; Jan. 5; Sp. p. 732; Gaz. vol. 138; p. 115.  
 Landon, J. M., Upper Norwood, England. Talking-machine. No. 922,297; May 18; Sp. p. 4520; Gaz. vol. 142; p. 785.  
 Landon, J. N., Hartland, Vt. Antirefillable bottle. No. 939,602; Nov. 9; Sp. p. 2565; Gaz. vol. 148; p. 421.  
 Landphere, F. F., Mazon, Ill. Rotary pump. No. 910,293; Jan. 19; Sp. p. 3811; Gaz. vol. 138; p. 686.  
 Landrum, C. W., and G. W. Wright, Webb City, Mo. Rotary impelling-pump. No. 929,230; July 27; Sp. p. 5232; Gaz. vol. 144; p. 927.  
 Landry, A. (See Bollinger and Landry.)  
 Landry, A., Donaldsonville, La. Coffee-roaster. No. 912,136; Feb. 9; Sp. p. 2268; Gaz. vol. 139; p. 393.  
 Landry, E. (See Bollinger and Landry.)  
 Landry, J. N., Bristol, Conn. Line-holder. No. 912,387; Feb. 16; Sp. p. 2819; Gaz. vol. 139; p. 513.  
 Landry, L. H., assignor of one-half to S. B. Taft, Uxbridge, Mass. one-eighth to U. Larocque, and one-eighth to L. and T. Bousquet, Burlingtonville, R. I. Picking-motion. No. 943,027; Dec. 14; Sp. p. 2151; Gaz. vol. 149; p. 369.  
 Landry, L. H., assignor of one-half to S. B. Taft, Uxbridge, Mass. one-eighth to U. Larocque, and one-eighth to L. and T. Bousquet, Burlingtonville, R. I. Loom. No. 943,028; Dec. 14; Sp. p. 2154; Gaz. vol. 149; p. 369.  
 Landry, L. H., assignor of one-half to S. B. Taft, Uxbridge, Mass. one-eighth to U. Larocque, and one-eighth to L. and T. Bousquet, Burlingtonville, R. I. Loom-temple. No. 943,150; Dec. 14; Sp. p. 2423; Gaz. vol. 149; p. 411.  
 Landvatter, O. H., assignor to Badische Maschinenfabrik & Eisengiesserei vormals G. Sebold und Sebold & Neff, Durlach, Germany. Dipping device for match-machines. No. 940,934; Nov. 23; Sp. p. 5504; Gaz. vol. 148; p. 932.  
 Lane Brothers Company. (See Lane, G., assignor.)  
 Lane, C. C., Los Angeles, Cal. Ore-crushing machine. No. 930,198; Aug. 3; Sp. p. 1200; Gaz. vol. 145; p. 196.  
 Lane, C. C., Los Angeles, Cal. Rock-breaker. No. 936,729; Oct. 12; Sp. p. 2374; Gaz. vol. 147; p. 395.  
 Lane, C. D., and A. F. Schmand, Bridgeport, Conn. Candy-cutter. No. 911,410; Feb. 2; Sp. p. 749; Gaz. vol. 139; p. 130.  
 Lane, C. E., Eureka Springs, Ark. Adjustable dough-cutter. No. 915,611; Mar. 16; Sp. p. 4029; Gaz. vol. 140; p. 696.  
 Lane, C. E., Eureka Springs, Ark. Rug stiffener and protector. No. 926,125; June 29; Sp. p. 6355; Gaz. vol. 143; p. 1129.  
 Lane, E. A., Fulda, Cal. Straightening-machine. No. 928,672; July 20; Sp. p. 4101; Gaz. vol. 144; p. 715.  
 Lane, E. K. (See Powell and Lane.)  
 Lane, E. M., Haddon Heights, N. J. Mold for forming artificial-stone blocks. No. 919,891; Apr. 27; Sp. p. 6287; Gaz. vol. 141; p. 1074.  
 Lane, G., Poughkeepsie, N. Y. Door-hanger. No. 913,518; Feb. 23; Sp. p. 5129; Gaz. vol. 139; p. 915.  
 Lane, G., assignor to Lane Brothers Company, Poughkeepsie, N. Y. Trolley-track for sliding doors. No. 911,824; Feb. 9; Sp. p. 1568; Gaz. vol. 139; p. 291.  
 Lane, H. B., Union Springs, Ala. Match-box. No. 920,349; May 4; Sp. p. 526; Gaz. vol. 142; p. 84.  
 Lane, J. S., Brooklyn, N. Y., and J. L. Mathews, Billerica, Mass. Tow-boat and system of towage. No. 922,160; May 18; Sp. p. 4239; Gaz. vol. 142; p. 741.  
 Lane, J. S., Brooklyn, N. Y., and J. L. Mathews, Billerica, Mass. System of river transportation. No. 936,336; Oct. 12; Sp. p. 1512; Gaz. vol. 147; p. 261.  
 Lane, L. E., Lyons, N. Y. Folding crate. No. 920,162; May 4; Sp. p. 136; Gaz. vol. 142; p. 21.  
 Lane, V. E., Berwick, Pa. Pneumatic hammer. No. 919,035; Apr. 20; Sp. p. 4313; Gaz. vol. 141; p. 754.  
 Lane, W. K. (See Williams and Lane.)  
 Lane, J. H., assignor of one-half to F. A. Rexford, Minneapolis, Minn. Railway-frog. No. 933,040; Aug. 31; Sp. p. 7181; Gaz. vol. 145; p. 1232.  
 Lanfair, H. D., assignor to Henry G. Thompson & Son Co., New Haven, Conn. Hack saw-machine. No. 935,665; Oct. 5; Sp. p. 88; Gaz. vol. 147; p. 15.  
 Lang, A. (See Richter, J., assignor.)  
 Lang, C. H., Chicago, Ill. Changeable-speed gearing for motor-cycles. No. 908,583; Jan. 5; Sp. p. 310; Gaz. vol. 138; p. 52.  
 Lang, C. J., Olean, N. Y. Carbon-holder for electric lamps. No. 911,411; Feb. 2; Sp. p. 750; Gaz. vol. 139; p. 130.  
 Lang, C. J., Olean, N. Y. Friction-bearing. No. 911,412; Feb. 2; Sp. p. 752; Gaz. vol. 139; p. 131.  
 Lang, C. J., Olean, N. Y. Kinetoscope. No. 912,137; Feb. 9; Sp. p. 2269; Gaz. vol. 139; p. 393.  
 Lang, E. G., New York, N. Y., assignor to Lang & Gros Manufacturing Co. Gummed cloth. No. 908,780; Jan. 5; Sp. p. 734; Gaz. vol. 138; p. 115.  
 Lang, E. M., Jr. (See Cobb, E. M., assignor.)  
 Lang, E. P., and C. J. Kalbe, assignors of one-third to P. H. Holland, Chicago, Ill. Vegetable-slicer. No. 925,111; June 15; Sp. p. 4303; Gaz. vol. 143; p. 733.  
 Lang, F. S., Seattle, Wash. Furnace. No. 925,486; June 22; Sp. p. 5004; Gaz. vol. 143; p. 884.  
 Lang, F. S., Seattle, Wash. Stove. No. 934,445; Sept. 21; Sp. p. 2952; Gaz. vol. 146; p. 520.  
 Lang, G. R., Meadville, Pa. Tool-holder. No. 926,582; July 6; Sp. p. 368; Gaz. vol. 144; p. 59.  
 Lang & Gros Manufacturing Co. (See Lang, E. G., assignor.)  
 Lang, J., Mannheim, Germany. Rail-corrugation-filing-off machine. No. 916,332; Mar. 23; Sp. p. 5407; Gaz. vol. 140; p. 961.  
 Lang, J. E. (See Raber, Lang, and Wiltrott.)  
 Lang, J. F. (See Ranz, J., assignor.)  
 Lang, J. R. A., Mount Vernon, N. Y. Piano fall-board. No. 924,247; June 8; Sp. p. 2526; Gaz. vol. 143; p. 411.  
 Lang, L. C., Emerald, Fla. Match-box. No. 925,487; June 22; Sp. p. 5006; Gaz. vol. 143; p. 884.  
 Lang, M., Louisville, Ky. Garment. No. 942,144; Dec. 7; Sp. p. 260; Gaz. vol. 149; p. 39.  
 Lang, W. S., Pittsburg, Pa. Apparatus for separating broom-splints. No. 912,692; Feb. 16; Sp. p. 3456; Gaz. vol. 139; p. 617.  
 Lang, W. W., Pollokshields, Glasgow, Scotland. Fiddle or guard for ships' tables. No. 915,776; Mar. 23; Sp. p. 4396; Gaz. vol. 140; p. 780.  
 Langas, J. J., Ashland, Wis. Potato-slicer. No. 916,460; Mar. 30; Sp. p. 5695; Gaz. vol. 140; p. 1029.  
 Langas, J. J., Ashland, Wis. Mill-roller. No. 929,143; July 27; Sp. p. 5058; Gaz. vol. 144; p. 899.  
 Langdon, J. F., Wichita, Kans. Hay-grinding machine. No. 909,914; Jan. 19; Sp. p. 2992; Gaz. vol. 138; p. 555.  
 Lange, F. (See Goldschmidt and Lange.)  
 Lange, F. W. (See Gleason, E. D., assignor.)  
 Lange, G., Taunton, Mass. Railroad-switch. No. 912,861; Feb. 16; Sp. p. 3815; Gaz. vol. 139; p. 672.  
 Lange, H., Quincy, Ill. Hinge. No. 911,137; Feb. 2; Sp. p. 229; Gaz. vol. 139; p. 41.  
 Lange, H., Berlin, Germany. Bag-wheelbarrow with weighing device. No. 944,335; Dec. 28; Sp. p. 4931; Gaz. vol. 149; p. 869.  
 Lange, H. A. (See Buckman and Lange.)



*Alphabetical list of patentees—Continued.*

- Lange, H. S., Christiania, Norway. Valve for hydrants, stand-pipes, and the like. No. 935,373; Sept. 28; Sp. p. 4824; Gaz. vol. 146; p. 853.
- Lange, H. S., Christiania, Norway. Hydrant, stand-pipe, and the like. No. 938,064; Oct. 26; Sp. p. 5148; Gaz. vol. 147; p. 884.
- Lange, M. (See Knapke and Lange.)
- Lange, P. A., Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Ventilating-plate for laminated structures. No. 933,766; Sept. 14; Sp. p. 1647; Gaz. vol. 146; p. 272.
- Lange, W. B., assignor to Patterson Manufacturing Company, Philadelphia, Pa. Woven fabric. No. 915,365; Mar. 16; Sp. p. 3522; Gaz. vol. 140; p. 614.
- Langen, G. (See Meier and Langen.)
- Langenbeck, K., Boston, Mass. Vitrified paving-brick. No. 937,822; Oct. 26; Sp. p. 4634; Gaz. vol. 147; p. 803.
- Langenheim, W., Duisburg-Hochfeld, Germany. Pipe-making machine. No. 914,851; Mar. 9; Sp. p. 2519; Gaz. vol. 140; p. 421.
- Langenohl, E., Wermelskirchen, Germany. Device for exhibiting boots and shoes. No. 914,431; Mar. 9; Sp. p. 1653; Gaz. vol. 140; p. 282.
- Langer, F. J., *et al.* (See Sayers, O. J., assignor.)
- Langer, G. L., San Francisco, assignor to R. E. Keagle, Lodi, Cal. Block-forming machine. No. 932,035; Aug. 24; Sp. p. 5133; Gaz. vol. 145; p. 877.
- Langer, J. (See Schönich and Langer.)
- Langer, P., Milwaukee, Wis. Valve. No. 919,036; Apr. 20; Sp. p. 4315; Gaz. vol. 141; p. 754.
- Langford, J. E., Ottumwa, Iowa. Column-clamp. No. 916,169; Mar. 23; Sp. p. 5122; Gaz. vol. 140; p. 906.
- Langford, J. T., deceased, Newton, Mass.; E. M. Priest, administratrix. Composite pipe. No. 913,662; Feb. 23; Sp. p. 5472; Gaz. vol. 139; p. 963.
- Langford, J. T., deceased, Newton, Mass.; E. M. Priest, administratrix. Hydraulic pipe. No. 928,233; July 13; Sp. p. 3157; Gaz. vol. 144; p. 538.
- Langford, L., *et al.* (See Chesnutt, T. S., assignor.)
- Langford, W. S., Baltimore, Md. Belting. No. 921,415; May 11; Sp. p. 2721; Gaz. vol. 142; p. 468.
- Langsons, G., New York, N. Y. Reinforced clothes-pin. No. 937,823; Oct. 26; Sp. p. 4635; Gaz. vol. 147; p. 803.
- Languth, F., Schmargendorf, near Berlin, Germany. Floor. No. 913,519; Feb. 23; Sp. p. 5130; Gaz. vol. 139; p. 915.
- Langham, H., Hoddesdon, England. Egg-tester. No. 933,185; Sept. 7; Sp. p. 323; Gaz. vol. 146; p. 52.
- Langhard, J. (See Clément and Langhard.)
- Langhorst, C. J., St. Marys, Ohio. Cupola attachment. No. 909,622; Jan. 12; Sp. p. 2401; Gaz. vol. 138; p. 425.
- Langille, A. S., Chicago, Ill. Fireless cooker. No. 915,612; Mar. 16; Sp. p. 4030; Gaz. vol. 140; p. 696.
- Langley, F. S. (See Cramer and Langley.)
- Langley, R. R., Lincoln, Nebr. Planting-machine. No. 927,555; July 13; Sp. p. 1742; Gaz. vol. 144; p. 311.
- Langley, R. R., Lincoln, Nebr. Planter. No. 928,203; July 13; Sp. p. 3102; Gaz. vol. 144; p. 528.
- Langlotz, B., Bangor, Mich. Tire-bolt wrench. No. 923,538; June 1; Sp. p. 939; Gaz. vol. 143; p. 146.
- Langnickel, K. (See Bott and Langnickel.)
- Langschmidt, E., assignor to Wm. Wrigley, Jr., & Co., Chicago, Ill. Box. No. 939,517; Nov. 9; Sp. p. 2367; Gaz. vol. 148; p. 392.
- Langslow, H. R., Rochester, N. Y. Clamp for racks and like devices. No. 934,676; Sept. 21; Sp. p. 3424; Gaz. vol. 146; p. 598.
- Langstaff, L. G., New York, N. Y. Liquid-dispensing vessel. No. 925,000; June 15; Sp. p. 4097; Gaz. vol. 143; p. 696.
- Langstaff, L. G., New York, N. Y. Liquid-dispensing vessel. No. 925,001; June 15; Sp. p. 4099; Gaz. vol. 143; p. 697.
- Langston, S. M., Camden, N. J. Machine for making cellular boards. No. 916,170; Mar. 23; Sp. p. 5123; Gaz. vol. 140; p. 906.
- Langston, S. M., Camden, N. J. Cutting and conveying mechanism. No. 922,918; May 25; Sp. p. 5827; Gaz. vol. 142; p. 1016.
- Langston, S. M., Camden, N. J. Machine for making cartons. No. 929,450; July 27; Sp. p. 5689; Gaz. vol. 144; p. 999.
- Langston, S. M., Camden, N. J. Machine for making cellular boards. No. 929,451; July 27; Sp. p. 5692; Gaz. vol. 144; p. 999.
- Langston, S. M., Camden, N. J. Paper-slitler. No. 943,357; Dec. 14; Sp. p. 2853; Gaz. vol. 149; p. 480.
- Langstroth, W., Washington, D. C. Gun-sight protector. No. 924,475; June 8; Sp. p. 2964; Gaz. vol. 143; p. 485.
- Langworthy, S. M., Cedar Rapids, Iowa. Surgical head-holder. No. 923,862; June 8; Sp. p. 1716; Gaz. vol. 143; p. 286.
- Lanham, C. W., Hustonville, Ky. Corn-planter. No. 939,717; Nov. 9; Sp. p. 2796; Gaz. vol. 148; p. 462.
- Lanham, H., assignor of one-half to J. H. Lanham, Rome, Ga. Collapsible bracket. No. 908,781; Jan. 5; Sp. p. 736; Gaz. vol. 138; p. 115.
- Lanham, J. H. (See Lanham, H., assignor.)
- Lanier, A. F. (See Chase, E. A., assignor.)
- Lanier, E. H., and F. K. Driesbach, Cincinnati, Ohio. Confection-baking apparatus. No. 919,601; Apr. 27; Sp. p. 5683; Gaz. vol. 141; p. 977.
- Lanier, E. H., and F. K. Driesbach, Cincinnati, Ohio. Pastry-making machine. No. 922,004; May 18; Sp. p. 3948; Gaz. vol. 142; p. 690.
- Lanier, R. L., Sr., Monticello, Ky. Harmonica. No. 925,778; June 22; Sp. p. 5645; Gaz. vol. 143; p. 979.
- Lanious, H., Bucyrus, Ohio. Burial-vault. No. 938,250; Oct. 26; Sp. p. 5551; Gaz. vol. 147; p. 948.
- Lanious, J., Galion, Ohio. Car-replacer. No. 930,868; Aug. 10; Sp. p. 2558; Gaz. vol. 145; p. 441.
- Lanneau, L. D. de, Paris, France. Cap for projectiles. No. 918,566; Apr. 20; Sp. p. 3261; Gaz. vol. 141; p. 594.
- Lannert, C. H., assignor to Champion Chemical Company, Springfield, Ohio. Casket-truck. No. 915,032; Mar. 9; Sp. p. 2825; Gaz. vol. 140; p. 478.
- Lanphier, R. C., assignor to Sangamo Electric Company, Springfield, Ill. Electric meter. No. 910,548; Jan. 26; Sp. p. 4334; Gaz. vol. 138; p. 796.
- Lanphier, R. C., assignor to Sangamo Electric Company, Springfield, Ill. Electrical indicating instrument. No. 910,549; Jan. 26; Sp. p. 4337; Gaz. vol. 138; p. 796.
- Lanphier, R. C., assignor to Sangamo Electric Company, Springfield, Ill. Operating alternating-current mercury wattmeters. No. 927,733; July 13; Sp. p. 2138; Gaz. vol. 144; p. 371.
- Lanphier, R. C., and J. H. Hodde, assignors to Sangamo Electric Company, Springfield, Ill. Motor-meter for alternating currents. No. 910,550; Jan. 26; Sp. p. 4340; Gaz. vol. 138; p. 797.
- Lanphier, R. C., and O. White, assignors to Sangamo Electric Company, Springfield, Ill. Mercury-motor meter. No. 911,020; Jan. 26; Sp. p. 5267; Gaz. vol. 138; p. 947.
- Lansdale, M. F., assignor of one-half to H. G. Fowler, Denver, Colo. Amalgamator. No. 941,371; Nov. 30; Sp. p. 6450; Gaz. vol. 148; p. 1099.
- Lansing Wheelbarrow Company. (See Verplanck, H. M., assignor.)
- Lansing, V. R., assignor to Holophane Glass Company, New York, N. Y. Illuminator. No. 915,056; Mar. 9; Sp. p. 2866; Gaz. vol. 140; p. 486.
- Lanston Monotype Machine Company. (See Bancroft, J. S., assignor.)
- Lanston Monotype Machine Company. (See Bancroft, W., assignor.)
- Lanston Monotype Machine Company. (See Bancroft and Indahl, assignors.)
- Lanston Monotype Machine Company. (See Church, J. B., assignor.)
- Lanston Monotype Machine Company. (See Pierpont, F. H., assignor.)
- Lantz, C. H., Manhattan, Kans. Cloth-measuring machine. No. 942,084; Dec. 7; Sp. p. 99; Gaz. vol. 149; p. 17.
- Lanyon, S. H., Seattle, Wash. Car-wheel. No. 922,161; May 18; Sp. p. 4241; Gaz. vol. 142; p. 741.
- Lanz, Firm of H. (See Fischer, M., assignor.)
- Lanzendorfer, G., Boston, Mass., assignor to Kops Bros., New York, N. Y. Flexible fibrous material. No. 923,978; June 8; Sp. p. 1940; Gaz. vol. 143; p. 323.
- Lapham, E. B., and J. Walker, New York, N. Y., assignors to Seth Thomas Clock Company, Thomaston, Conn. Alarm-clock. No. 919,892; Apr. 27; Sp. p. 6290; Gaz. vol. 141; p. 1074.
- Laplant, F., Syracuse, N. Y. Machine for making twist-drills. No. 935,851; Oct. 5; Sp. p. 531; Gaz. vol. 147; p. 77.
- Lapointe, E., Lawrence, Mass. Shoe-machine guide. No. 928,988; July 27; Sp. p. 4728; Gaz. vol. 144; p. 848.
- Lapp, C. E., and W. H. Harrison, Los Angeles, Cal. Casing-perforator. No. 939,917; Nov. 9; Sp. p. 3233; Gaz. vol. 148; p. 532.
- Lappen, J. E., Leroy, assignor of two-thirds to F. M. Catlin and L. L. C. Brooks, St. Paul, Minn. Flax felt. No. 908,681; Jan. 5; Sp. p. 538; Gaz. vol. 138; p. 83.
- Lapping, J. J., Woodward, Ala. Dry ore-separator. No. 926,428; June 29; Sp. p. 6978; Gaz. vol. 143; p. 1229.
- Laravie, O. J., Plattsburg, N. Y. Cushioning bicycle-frame. No. 931,932; Aug. 24; Sp. p. 4906; Gaz. vol. 145; p. 842.
- Laraway, W. H., Grand Rapids, Mich. Vending-machine. No. 941,079; Nov. 23; Sp. p. 5811; Gaz. vol. 148; p. 980.
- Larchar, A. B. (See Wentworth and Larchar.)
- Larche, P. A. (See Conekin, D., assignor.)
- Larduskey, W. H., Baltimore, Md. Laundry-pad. No. 919,191; Apr. 20; Sp. p. 4602; Gaz. vol. 141; p. 803.
- Large, P. T., North Tonawanda, assignor to Buffalo Steel Company, Tonawanda, N. Y. Reinforcing-bar for concrete construction. No. 931,320; Aug. 17; Sp. p. 3604; Gaz. vol. 145; p. 622.
- Larimer, J. I., Joliet, Ill. Hot-blast stove. No. 912,967; Feb. 16; Sp. p. 4017; Gaz. vol. 139; p. 705.
- Larkin, B. H., Chicago, Ill., assignor to Continental Can Company, Baltimore, Md. Cutting can-caps and can ends from sheet metal. No. 944,793; Dec. 28; Sp. p. 5954; Gaz. vol. 149; p. 1026.

*Alphabetical list of patentees—Continued.*

- Larkin, D. F., assignor of one-half to D. I. Whiteside, San Francisco, Cal. Carpenter's bench-stop. No. 919,732; Apr. 27; Sp. p. 5942; Gaz. vol. 141; p. 1020.
- Larkin, D. F., assignor of one-half to D. I. Whiteside, San Francisco, Cal. Carpenter's bench-stop. No. 933,081; Sept. 7; Sp. p. 90; Gaz. vol. 146; p. 15.
- Larkin, G. F., Upton Park, England. Controlling and locking device. No. 927,984; July 13; Sp. p. 2667; Gaz. vol. 144; p. 454.
- Larkin, G. F., Brentwood, England. Controlling device for motor-vehicles, air-ships, &c. No. 944,879; Dec. 28; Sp. p. 6147; Gaz. vol. 149; p. 1057.
- Larkin, J. L., and J. C. Woody, Mount Vernon, Ind., assignors to Champion Safety Lock Company, Geneva, Ohio. Hinge. No. 938,669; Nov. 2; Sp. p. 498; Gaz. vol. 148; p. 76.
- Larkin, O. M., St. Louis, Mo. Combination-lock. No. 916,334; Mar. 23; Sp. p. 5412; Gaz. vol. 140; p. 962.
- Larkin, W. H., Butler, Pa. Pump for wells. No. 938,878; Nov. 2; Sp. p. 930; Gaz. vol. 148; p. 147.
- Larkworthy, W. J. (See Harper and Larkworthy.)
- Larmer, J. L., *et al.* (See Smith, J. P., assignor.)
- Larned, Carter & Company. (See McDonald, H. A., assignor.)
- Larned, S. J., assignor to Western Electric Company, Chicago, Ill. Toll apparatus for telephone-exchanges. No. 926,199; June 29; Sp. p. 6531; Gaz. vol. 143; p. 1155.
- Larner, C. W., Philadelphia, Pa. Centrifugal pump. No. 932,297; Aug. 24; Sp. p. 5656; Gaz. vol. 145; p. 965.
- Larock, F. J., Burnside, assignor to himself, and E. M. Francis, Hartford, Conn. Egg-beater. No. 944,621; Dec. 28; Sp. p. 5592; Gaz. vol. 149; p. 970.
- Laroque, U., *et al.* (See Landry, L. H., assignor.)
- Larouette, H. P., assignor of one-eighth to G. L. Barker, one-eighth to A. L. Wood, and one-eighth to A. J. Moan, San Jose, Cal. Safety steering attachment for automobiles. No. 929,605; July 27; Sp. p. 5998; Gaz. vol. 144; p. 1050.
- Laroussini, O., New Orleans, La. Phonograph-record holder. No. 926,659; June 29; Sp. p. 7401; Gaz. vol. 143; p. 1305.
- Larr, A. C., Little Rock, Ark. Boat for shallow waters. No. 921,849; May 18; Sp. p. 3635; Gaz. vol. 142; p. 640.
- Larrabee, C. E., Binghamton, assignor to International Time Recording Company of New York, Endicott, N. Y. Time-recorder. No. 935,312; Sept. 28; Sp. p. 4696; Gaz. vol. 146; p. 834.
- Larrabee, W. H., assignor to Union Water Meter Company, Worcester, Mass. Step-bearing for uprightshafts. No. 931,069; Aug. 17; Sp. p. 3052; Gaz. vol. 145; p. 535.
- Larrison, W. H., assignor to Florence Iron Works, Florence, N. J. Machine for forming cores for pipe-sockets. No. 932,402; Aug. 24; Sp. p. 5846; Gaz. vol. 145; p. 998.
- Larsen, A., New Iberia, La. Brake mechanism. No. 926,578; June 29; Sp. p. 7235; Gaz. vol. 143; p. 1279.
- Larsen, C., San Francisco, Cal. Clinometer. No. 918,869; Apr. 20; Sp. p. 3978; Gaz. vol. 141; p. 699.
- Larsen, C. C., assignor of one-half to F. Shenkberg, Sioux City, Iowa. Willow-stripping machine. No. 940,260; Nov. 16; Sp. p. 4007; Gaz. vol. 148; p. 682.
- Larsen, G. E., and A. K. Johnson, Chicago, Ill. Radiator-cover. No. 923,668; June 1; Sp. p. 1228; Gaz. vol. 143; p. 190.
- Larsen, H., Springfield, Ohio. Linotype-machine. No. 911,887; Feb. 9; Sp. p. 1682; Gaz. vol. 139; p. 312.
- Larsen, J., Copenhagen, Denmark, assignor to E. E. Wirths, Brooklyn, N. Y. Mechanism for operating circular needles. No. 910,829; Jan. 26; Sp. p. 4910; Gaz. vol. 138; p. 886.
- Larsen, J., Copenhagen, Denmark, assignor, by mesne assignments, to Larsen Machines Company. Shuttle mechanism. No. 927,152; July 6; Sp. p. 939; Gaz. vol. 144; p. 152.
- Larsen, J., Copenhagen, Denmark, assignor, by mesne assignments, to Larsen Machines Company. Welting-machine. No. 927,153; July 6; Sp. p. 939; Gaz. vol. 144; p. 152.
- Larsen, J. N. (See Schaub and Larsen.)
- Larsen, L. (See Mengers and Larsen.)
- Larsen, L. B. (See Finn, W., assignor.)
- Larsen, L. B., Portland, Ore. Concrete-block machine. No. 940,935; Nov. 23; Sp. p. 5508; Gaz. vol. 148; p. 933.
- Larsen, L. B., Portland, Ore. Bond for two-membered concrete building-blocks. No. 941,080; Nov. 23; Sp. p. 5814; Gaz. vol. 148; p. 981.
- Larsen, L. B., assignor of one-fourth to L. W. Cronan and one-fourth to J. D. O'Donnell, Portland, Ore. Carrier. No. 926,264; June 29; Sp. p. 6661; Gaz. vol. 143; p. 1176.
- Larsen, L. H. (See Rowland, H. K., assignor.)
- Larsen, M. (See Hespe and Larsen.)
- Larsen, M., New York, N. Y. Torpedo. No. 940,033; Nov. 16; Sp. p. 3478; Gaz. vol. 148; p. 601.
- Larsen Machines Company. (See Larsen J., assignor.)
- Larsen, P., assignor to F. S. Oakes and S. F. Burger, Cattaraugus, N. Y. Jacketed milk-can. No. 935,265; Sept. 28; Sp. p. 4607; Gaz. vol. 146; p. 819.
- Larsen, W., Honolulu, Hawaii. Apparatus for loading coal. No. 938,879; Nov. 2; Sp. p. 931; Gaz. vol. 148; p. 147.
- Larsh, J. M., Indianapolis, assignor of one-third to W. C. Johnson, Terre Haute, and one-third to J. M. Noel, Indianapolis, Ind. Harrow. No. 920,069; Apr. 27; Sp. p. 6650; Gaz. vol. 141; p. 1132.
- Larson, A., *et al.* (See Weiner, J., assignor.)
- Larson, A., Scobey, assignor of one-half to R. E. Patch, Poplar, Mont. Spring-wheel. No. 910,396; Jan. 19; Sp. p. 4012; Gaz. vol. 138; p. 720.
- Larson, A. E., Provo, Utah. Garment-hanger. No. 912,388; Feb. 16; Sp. p. 2819; Gaz. vol. 139; p. 513.
- Larson, A. F., and K. O. Ostergen, Chicago, Ill., assignors to Marquette Piano Company, Crystal Falls, Mich. Self-playing piano mechanism. No. 914,054; Mar. 2; Sp. p. 861; Gaz. vol. 140; p. 133.
- Larson, A. F., and K. O. Ostergen, Chicago, Ill., assignors to Marquette Piano Company, Crystal Falls, Mich. Automatic pneumatic piano. No. 915,366; Mar. 16; Sp. p. 3523; Gaz. vol. 140; p. 614.
- Larson, C. G., Burlington, Iowa, assignor of one-half to J. Eliason, Moline, Ill. Try-square. No. 927,556; July 13; Sp. p. 1745; Gaz. vol. 144; p. 311.
- Larson, C. W., Schenectady, N. Y., assignor to General Electric Company. Towing device. No. 942,450; Dec. 7; Sp. p. 871; Gaz. vol. 149; p. 142.
- Larson, D., Yonkers, N. Y. Friction drive apparatus. No. 921,646; May 11; Sp. p. 3195; Gaz. vol. 142; p. 546.
- Larson, E. E., Thompson, Iowa. Transmission-gearing. No. 917,463; Apr. 6; Sp. p. 997; Gaz. vol. 141; p. 174.
- Larson, E. L., De Kalb, Ill. Track-sanding device. No. 939,718; Nov. 9; Sp. p. 2798; Gaz. vol. 148; p. 462.
- Larson, G., Jamestown, N. Y. Grinding-machine. No. 939,038; Nov. 2; Sp. p. 1266; Gaz. vol. 148; p. 203.
- Larson, G. A., Seattle, Wash. Current-power-pumping apparatus. No. 917,464; Apr. 6; Sp. p. 1000; Gaz. vol. 141; p. 174.
- Larson, I., Sandy, Utah. Tool-holder. No. 927,362; July 6; Sp. p. 1319; Gaz. vol. 144; p. 219.
- Larson, J. A., Hawley, Minn. Belt guide and thrower. No. 923,979; June 8; Sp. p. 1941; Gaz. vol. 143; p. 323.
- Larson, J. E. L., Chicago, Ill. Oscillating toy. No. 932,988; Aug. 31; Sp. p. 7061; Gaz. vol. 145; p. 1214.
- Larson, J. H., Troutdale, Ore. Whip-socket. No. 931,437; Aug. 17; Sp. p. 3842; Gaz. vol. 145; p. 662.
- Larson, J. M., assignor of one-half to W. W. Curtis, Chicago, Ill. Tapping-machine. No. 934,407; Sept. 14; Sp. p. 2899; Gaz. vol. 146; p. 484.
- Larson, L., assignor of one-fourth to E. Peterson, Chicago, Ill. Rail-joint. No. 937,003; Oct. 12; Sp. p. 2906; Gaz. vol. 147; p. 484.
- Larson, L. J. (See Streed and Larson.)
- Larson, P. H., assignor of one-half to E. W. Streed, Minneapolis, Minn. Edge ironing, folding, and shaping machine. No. 926,660; June 29; Sp. p. 7402; Gaz. vol. 143; p. 1306.
- Larson, P. L., Chicago, Ill. Counterbalanced stair. No. 908,782; Jan. 5; Sp. p. 737; Gaz. vol. 138; p. 116.
- Larson, P. O., Kellys, N. D. Wire stretching and splicing device. No. 919,893; Apr. 27; Sp. p. 6292; Gaz. vol. 141; p. 1074.
- Larson, A., Buffalo, N. Y. Telephone-cabinet. No. 928,989; July 27; Sp. p. 4731; Gaz. vol. 144; p. 848.
- Larsson, P. G., Kristianstad, Sweden. Pumping device for velocipedes. No. 928,919; July 20; Sp. p. 4586; Gaz. vol. 144; p. 799.
- Larsson, T., Worcester, Mass., assignor to himself, W. E. D. Stokes, New York, N. Y., and F. A. Jones, Worcester, Mass. Elevator-controlling mechanism. No. 911,888; Feb. 9; Sp. p. 1685; Gaz. vol. 139; p. 312.
- Larsson, T., assignor to himself, F. A. Jones, Worcester, Mass., and W. E. D. Stokes, New York, N. Y. Automatic stopping connection for hydraulic elevators. No. 924,798; June 15; Sp. p. 3663; Gaz. vol. 143; p. 628.
- Lasater, A. M. (See Brown, F. J., assignor.)
- Lash, H. W. (See Cromwell and Lash.)
- Lash, H. W., Cleveland, Ohio. Electric smelting of iron oxids. No. 924,676; June 15; Sp. p. 3405; Gaz. vol. 143; p. 586.
- Lash, H. W., Cleveland, Ohio. Smelting iron oxids. No. 924,677; June 15; Sp. p. 3407; Gaz. vol. 143; p. 586.
- Lash, H. W., assignor to Garrett-Cromwell Engineering Company, Cleveland, Ohio. Protecting-shield for furnace-flues. No. 927,557; July 13; Sp. p. 1746; Gaz. vol. 144; p. 312.
- Lashar, T. B., assignor to International Silver Company, Bridgeport, Conn. Attaching steel blades to solid white-metal handles. No. 915,777; Mar. 23; Sp. p. 4398; Gaz. vol. 140; p. 780.
- Lashar, T. B., assignor to International Silver Company, Bridgeport, Conn. Table-knife. No. 920,762; May 4; Sp. p. 1344; Gaz. vol. 142; p. 219.



*Alphabetical list of patentees—Continued.*

- Lasher, A. C., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alternating-current-transformer regulator. No. 933,767; Sept. 14; Sp. p. 1648; Gaz. vol. 146; p. 272.
- Lassiter, C. K., Schenectady, N. Y. Machine for threading and turning bolt-blanks. No. 913,520; Feb. 23; Sp. p. 5131; Gaz. vol. 139; p. 916.
- Lassloffy, A. (See Woolner and Lassloffy.)
- Lassoe, V. F., Brooklyn, N. Y. Furnace. No. 915,682; Mar. 16; Sp. p. 4197; Gaz. vol. 140; p. 723.
- Lasswell, G. N., W. E. Hopper, I. W. Cheely, and W. D. Lasswell, Campbell, Mo. Log-loader. No. 920,586; May 4; Sp. p. 995; Gaz. vol. 142; p. 163.
- Lasswell, W. D. (See Lasswell, Hopper, Cheely, and Lasswell.)
- Last, A. J., Dovercourt, England. Pedal-guard for motor-cars and other vehicles. No. 913,406; Feb. 23; Sp. p. 4901; Gaz. vol. 139; p. 879.
- Laszlo, S., *et al.* (See Melisch, J., assignor.)
- Latham, A. E. (See Paul, A., assignor.)
- Latham, C. A., Wichita, Kans. Antifriction-bearing. No. 938,251; Oct. 26; Sp. p. 5553; Gaz. vol. 147; p. 949.
- Latham, H. P., Denver, Colo. Gate and door. No. 935,374; Sept. 28; Sp. p. 4826; Gaz. vol. 146; p. 854.
- Latham Machinery Company. (See Dahly, J., assignor.)
- Lathrop, E. L., Gallion, Ohio. Road-making machine. No. 940,169; Nov. 16; Sp. p. 3822; Gaz. vol. 148; p. 649.
- Lathrop, F. H., Chicago, Ill. Concrete conveying and mixing cart. No. 939,275; Nov. 9; Sp. p. 1795; Gaz. vol. 148; p. 310.
- Lathrop, F. H., assignor of three-fourths to J. Damey, Chicago, Ill. Machine to destroy cotton-boll weevils. No. 938,592; Nov. 2; Sp. p. 341; Gaz. vol. 148; p. 51.
- Lathrop, F. L., Wallingford, Conn., assignor to H. L. Judd Company and Gould-Mersereau Company, New York, N. Y. Curtain-pole fixture. No. 911,732; Feb. 9; Sp. p. 1408; Gaz. vol. 139; p. 262.
- Lathrop, F. L., Wallingford, Conn., assignor to H. L. Judd Company, New York, N. Y. Traverse-ring. No. 929,676; Aug. 3; Sp. p. 66; Gaz. vol. 145; p. 13.
- Lathrop, F. L., assignor to H. L. Judd Company, Wallingford, Conn. Curtain-rod support. No. 933,082; Sept. 7; Sp. p. 92; Gaz. vol. 146; p. 16.
- Lathrop, F. L., and H. E. Chase, assignors to H. L. Judd Company, Wallingford, Conn. Traverse-ring. No. 938,773; Nov. 2; Sp. p. 691; Gaz. vol. 148; p. 111.
- Lathrop, G., *et al.* (See Revoir, B., assignor.)
- Lathrop, L. C. (See Kast and Lathrop.)
- Latimer, A., London, England. Pneumatic tire. No. 923,279; June 1; Sp. p. 393; Gaz. vol. 143; p. 55.
- Latimer, A., London, England. Pneumatic tire. No. 943,640; Dec. 14; Sp. p. 3485; Gaz. vol. 149; p. 579.
- Latimer, J. M., Flushing, assignor to Consolidated Fire Alarm Company, New York, N. Y. Telephone system. No. 927,414; July 6; Sp. p. 1424; Gaz. vol. 144; p. 237.
- Latimer, J. W., Chicago, Ill., assignor to International Harvester Company. Clutch-shipping mechanism. No. 944,336; Dec. 28; Sp. p. 4931; Gaz. vol. 149; p. 869.
- Latou, W. L., Wilkensburg, Pa. Adjustable receptacle-support. No. 911,413; Feb. 2; Sp. p. 752; Gaz. vol. 139; p. 131.
- Latour, M. C. A. (See Weintraub and Latour.)
- Latour, M. C. A., Paris, France, assignor to General Electric Company. Alternating-current motor. No. 909,193; Jan. 12; Sp. p. 1575; Gaz. vol. 138; p. 283.
- Latour, M. C. A., Paris, France, assignor to General Electric Company. Multiplex telephony. No. 913,521; Feb. 23; Sp. p. 5136; Gaz. vol. 139; p. 916.
- Latour, M. C. A., Paris, France, assignor to General Electric Company. Alternating-current shunt-motor. No. 918,561; Apr. 20; Sp. p. 3262; Gaz. vol. 141; p. 594.
- Latourelle, A., Keeseville, N. Y. Shaft-tug and hitching device. No. 925,488; June 22; Sp. p. 5007; Gaz. vol. 143; p. 884.
- Latsch, J., Seattle, Wash. Hair-supporter. No. 942,833; Dec. 7; Sp. p. 1656; Gaz. vol. 149; p. 270.
- Latta, E. G., *et al.* (See Kavle, O. C., assignor.)
- Latta, E. G., Friendship, N. Y. Velocipede-pedal. No. 914,736; Mar. 9; Sp. p. 2285; Gaz. vol. 140; p. 383.
- Latta, E. G., Syracuse, N. Y. Escapement mechanism for type-writing machines. No. 944,794; Dec. 28; Sp. p. 5956; Gaz. vol. 149; p. 1027.
- Latta, E. G., assignor of one-half to H. A. Moyer, Syracuse, N. Y. Line-spacing mechanism for type-writing machines. No. 926,126; June 29; Sp. p. 6356; Gaz. vol. 143; p. 1129.
- Latta, E. G., assignor of one-half to H. A. Moyer, Syracuse, N. Y. Ribbon mechanism for type-writing machines. No. 933,186; Sept. 7; Sp. p. 325; Gaz. vol. 146; p. 53.
- Latta, E. G., assignor of one-half to H. A. Moyer, Syracuse, N. Y. Ribbon mechanism for type-writing machines. No. 933,652; Sept. 7; Sp. p. 1392; Gaz. vol. 146; p. 210.
- Latta, E. G., assignor of one-half to H. A. Moyer, Syracuse, N. Y. Ribbon mechanism. No. 934,677; Sept. 21; Sp. p. 3426; Gaz. vol. 146; p. 598.
- Latta, E. G., assignor of one-half to H. A. Moyer, Syracuse, N. Y. Ribbon mechanism for type-writing machines. No. 944,735; Dec. 28; Sp. p. 5830; Gaz. vol. 149; p. 1008.
- Latta, S. A., Manlius, Ill. Dish-washer. No. 938,002; Oct. 26; Sp. p. 5007; Gaz. vol. 147; p. 863.
- Latta, W. J. (See Kitsee, L., assignor.)
- Lattig, J. W., Wynote, and C. L. Goodrum, Philadelphia, Pa., assignors to American Automatic Telephone Company, Rochester, N. Y. Automatic telephone exchange system. No. 920,350; May 4; Sp. p. 527; Gaz. vol. 142; p. 84.
- Latner, J. E., and S. N. Robinson, Minneapolis, Minn. Blocking device for trucks. No. 939,518; Nov. 9; Sp. p. 2369; Gaz. vol. 148; p. 393.
- Latty, H. T. (See Latty, S. D. and H. T.)
- Latty, S. D. and H. T., Cleveland, Ohio. Vehicle steering-gear. No. 926,753; July 6; Sp. p. 99; Gaz. vol. 144; p. 15.
- Latulip, F., assignor of one-half to D. F. McLennan, Syracuse, N. Y. Journal-bearing. No. 934,551; Sept. 21; Sp. p. 3175; Gaz. vol. 146; p. 554.
- Lau, H. E., Tottestown, Pa. Rivet-holder. No. 940,467; Nov. 16; Sp. p. 4497; Gaz. vol. 148; p. 752.
- Laub, H., trustee. (See Mercader, C., assignor.)
- Laube, A., St. Petersburg, Russia. Compass. No. 920,587; May 4; Sp. p. 1000; Gaz. vol. 142; p. 163.
- Laube, G., assignor to H. R. Laube, Santa Monica, Cal. Clothes-line holder. No. 917,620; Apr. 6; Sp. p. 1278; Gaz. vol. 141; p. 226.
- Laube, G. and H. R., Santa Monica; said G. Laube assignor to G. N. Bartlett, Los Angeles, Cal. Paper-holder. No. 944,880; Dec. 28; Sp. p. 6149; Gaz. vol. 149; p. 1058.
- Laube, G. and H. R., Santa Monica; said G. Laube assignor to G. N. Bartlett, Los Angeles, Cal. Paper-holder. No. 944,881; Dec. 28; Sp. p. 6150; Gaz. vol. 149; p. 1058.
- Laube, G. and H. R., Santa Monica; said G. Laube assignor to G. N. Bartlett, Los Angeles, Cal. Fly-trap. No. 944,882; Dec. 28; Sp. p. 6152; Gaz. vol. 149; p. 1058.
- Laube, G. and H. R., Santa Monica; said G. Laube assignor to G. N. Bartlett, Los Angeles, Cal. Sticky-fly-paper holder. No. 944,994; Dec. 28; Sp. p. 6369; Gaz. vol. 149; p. 1093.
- Laube, G. and H. R., Santa Monica; said G. Laube assignor to G. N. Bartlett, Los Angeles, Cal. Fly-trap. No. 945,003; Dec. 28; Sp. p. 6390; Gaz. vol. 149; p. 1096.
- Laube, H. R. (See Laube, G., assignor.)
- Laube, H. R. (See Laube, G. and H. R.)
- Laubeauf, M. A., Paris, France. Water-tight hatch or manhole cover. No. 938,593; Nov. 2; Sp. p. 342; Gaz. vol. 148; p. 51.
- Lauber, O., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Portable gun. No. 923,052; May 25; Sp. p. 6095; Gaz. vol. 142; p. 1059.
- Lauber, O., and F. Böminghaus, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Recoil-gun. No. 923,051; May 25; Sp. p. 6094; Gaz. vol. 142; p. 1059.
- Lauber, O., and F. Böminghaus, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fluid-brake for recoil-guns. No. 927,862; July 13; Sp. p. 2419; Gaz. vol. 144; p. 413.
- Lauber, O., and H. Kanonenberg, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Protecting-shield for guns. No. 927,863; July 13; Sp. p. 2421; Gaz. vol. 144; p. 414.
- Laubeuf, M. A., Paris, France. Shelter for use in connection with submarine vessels. No. 921,125; May 11; Sp. p. 2104; Gaz. vol. 142; p. 371.
- Läubli, P., Zofingen, Switzerland, assignor to P. R. Voigt, Chemnitz, Germany. Yarn-winding apparatus. No. 913,739; Mar. 2; Sp. p. 133; Gaz. vol. 140; p. 23.
- Lauch, R., assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Orange lake dye and making same. No. 912,138; Feb. 9; Sp. p. 2271; Gaz. vol. 139; p. 393.
- Lauckner, B., Olbernhau-Grünthal, Germany, assignor to G. F. Newhard, St. Louis, Mo. Elastic. No. 919,192; Apr. 20; Sp. p. 4604; Gaz. vol. 141; p. 803.
- Lauckner, B., Olbernhau, Germany, assignor to G. F. Newhard, St. Louis, Mo. Clamp for garment-supporters. No. 943,084; Dec. 14; Sp. p. 2292; Gaz. vol. 149; p. 388.

*Alphabetical list of patentees—Continued.*

- Laudensack, A. F., assignor to Winchester Repeating Arms Co., New Haven, Conn. Charging device for tubular-magazine guns. No. 910,397; Jan. 19; Sp. p. 4014; Gaz. vol. 138; p. 721.
- Laudenschlager, W. F. (See Aab, W., assignor.)
- Laudermilch, H. C. (See Laudermilch, R. N. and H. C.)
- Laudermilch, H. C., Halifax, Pa. Spring-gun. No. 912,968; Feb. 16; Sp. p. 4018; Gaz. vol. 139; p. 705.
- Laudermilch, R. N., Harrisburg, and H. C. Laudermilch, Halifax, Pa. Spring-gun. No. 937,078; Oct. 19; Sp. p. 3066; Gaz. vol. 147; p. 539.
- Laudien, E. (See Schraube and Laudien.)
- Lauer, B., Paris, France. Cork-cutting machine. No. 917,084; Apr. 6; Sp. p. 247; Gaz. vol. 141; p. 45.
- Lauer, J., and J. Demeter, Cleveland, Ohio. Kitchen stove or range top. No. 935,313; Sept. 28; Sp. p. 4703; Gaz. vol. 146; p. 834.
- Laughlin, A. C., Alta Loma, Tex. Automatic hay-press. No. 938,252; Oct. 26; Sp. p. 5554; Gaz. vol. 147; p. 949.
- Laughlin, D., Dayton, Ohio. Collapsible cistern-mold. No. 927,806; July 13; Sp. p. 2289; Gaz. vol. 144; p. 396.
- Laughlin, H., Jr. (See Schuyler and Laughlin, assignors.)
- Laughlin, J., Ledyard, Iowa. Operating-table. No. 926,579; June 29; Sp. p. 7238; Gaz. vol. 143; p. 1279.
- Laughlin, W. S., assignor of one-half to W. Dahlquist, Eckman, N. D. Wheel. No. 934,408; Sept. 14; Sp. p. 2901; Gaz. vol. 146; p. 485.
- Laughlin, W. T., Cushing, Okla. Well-bucket holder. No. 910,294; Jan. 19; Sp. p. 3312; Gaz. vol. 138; p. 686.
- Laughterback, W. Z., assignor of one-third to J. D. Cook, South Omaha, Nebr., and one-third to M. J. Donlan. Wall-supporting device for trenches. No. 909,808; Jan. 12; Sp. p. 2765; Gaz. vol. 138; p. 487.
- Laun, C. F., assignor to Berbecker & Rowland Manufacturing Company, Waterville, Conn. Curtain-pole. No. 917,772; Apr. 13; Sp. p. 1627; Gaz. vol. 141; p. 302.
- Launbranch, M. E., assignor to Western Electric Company, Chicago, Ill. Block-signal system for electric railways. No. 923,796; June 1; Sp. p. 1563; Gaz. vol. 143; p. 233.
- Laurence, I. R. (See Gibbs, E. E., assignor.)
- Laurence, B., *et al.* (See McCabe, J. D., assignor.)
- Laurent, H. (See Branly and Laurent.)
- Laurent, L. C., Denver, Colo. Amalgamator. No. 913,902; Mar. 2; Sp. p. 502; Gaz. vol. 140; p. 81.
- Laurenti, C., assignor to Fiat-San Giorgio, Società Anonima, Spezia, Italy. Submarine or submersible boat. No. 922,298; May 18; Sp. p. 4523; Gaz. vol. 142; p. 785.
- Laurenti, C., assignor to Società Anonima Fiat-San Giorgio, Spezia, Italy. Torpedo-tube. No. 934,192; Sept. 14; Sp. p. 2496; Gaz. vol. 146; p. 411.
- Laurin, G. D., assignor to Gibson Mandolin-Guitar Company, Kalamazoo, Mich. Bridge for stringed musical instruments. No. 934,678; Sept. 21; Sp. p. 3439; Gaz. vol. 146; p. 598.
- Lauritzen, C. M., Chicago, Ill. Machine for cutting, beating, and pulverizing. No. 939,276; Nov. 9; Sp. p. 1798; Gaz. vol. 148; p. 311.
- Lauritzen, P. J., New York, N. Y., assignor to H. W. Johns-Manville Company. Smoke-jack. No. 920,763; May 4; Sp. p. 1346; Gaz. vol. 142; p. 219.
- Laurson, L. A., Cornell, assignor of one-half to E. Falbe, Holcombe, Wis. Speed-indicator for centrifugal machines. No. 925,641; June 22; Sp. p. 5338; Gaz. vol. 143; p. 935.
- Lauson, H. D., assignor to John Lauson Manufacturing Company, New Holstein, Wis. Clutch mechanism. No. 918,562; Apr. 20; Sp. p. 3264; Gaz. vol. 141; p. 595.
- Lauster, A. P., Paterson, N. J. Amusement device. No. 921,416; May 11; Sp. p. 2722; Gaz. vol. 142; p. 469.
- Lausterer, W. J., Jamestown, assignor to U. S. Standard Voting Machine Company, Rochester, N. Y. Voting and similar registering machine. No. 916,336; Mar. 23; Sp. p. 5416; Gaz. vol. 140; p. 962.
- Lausterer, W. J., Jamestown, assignor to Empire Voting Machine Company, Rochester and Jamestown, N. Y. Indorsing device for voting-machines. No. 916,337; Mar. 23; Sp. p. 5419; Gaz. vol. 140; p. 963.
- Lausterer, W. J., Jamestown, assignor to Empire Voting Machine Company, Rochester and Jamestown, N. Y. Indorsing device for voting-machines. No. 933,377; Sept. 7; Sp. p. 789; Gaz. vol. 146; p. 122.
- Lausterer, W. J., Jamestown, assignor to Empire Voting Machine Company, Rochester and Jamestown, N. Y. Key operating and locking bars for voting-machines. No. 933,378; Sept. 7; Sp. p. 790; Gaz. vol. 146; p. 122.
- Lautenschlager, W. F., Cincinnati, Ohio, assignor to Peerless Machinery Company, Boston, Mass. Cement-applying machine. No. 911,600; Feb. 9; Sp. p. 1128; Gaz. vol. 139; p. 218.
- Lautenschlager, W. F., Cincinnati, Ohio, assignor to L. Muther, Denver, Colo. Cement-applying machine. No. 913,829; Mar. 2; Sp. p. 307; Gaz. vol. 140; p. 53.
- Lautenschlager, W. F., Cincinnati, Ohio, assignor to L. Muther, Denver, Colo. Eyeletting-machine. No. 926,948; July 6; Sp. p. 503; Gaz. vol. 144; p. 82.
- Lautenschlager, W. F., Cincinnati, Ohio, assignor to L. Muther, Denver, Colo. Eyeletting-machine. No. 933,315; Sept. 7; Sp. p. 634; Gaz. vol. 146; p. 99.
- Lauterbach, F. W., assignor to Sächsische Haushaltungsmaschinenfabrik Gesellschaft mit beschränkter Haftung, Lobstädt, Germany. Mangling-roller. No. 922,488; May 25; Sp. p. 4915; Gaz. vol. 142; p. 876.
- Lauterback, G., Baltimore, Md. Can-closure. No. 925,201; June 15; Sp. p. 4477; Gaz. vol. 143; p. 764.
- Lautner, W. C., Rochester, assignor to Specialty Manufacturing Company, Webster, N. Y. Diaphragm for pipes. No. 915,683; Mar. 16; Sp. p. 4199; Gaz. vol. 140; p. 723.
- Laux, M., assignor to Domestic Gas Manufacturing Company, Little Rock, Ark. Pump. No. 927,415; July 6; Sp. p. 1428; Gaz. vol. 144; p. 237.
- Laux, M., assignor to Domestic Gas Manufacturing Company, Little Rock, Ark. Carbureter. No. 927,558; July 13; Sp. p. 1748; Gaz. vol. 144; p. 312.
- Laux, M., assignor to Domestic Gas Manufacturing Company, Little Rock, Ark. Carbureter. No. 932,478; Aug. 31; Sp. p. 6027; Gaz. vol. 145; p. 1046.
- Laval, C. G. P. de, Stockholm, Sweden. Extracting iron. No. 913,405; Feb. 23; Sp. p. 4900; Gaz. vol. 139; p. 879.
- Lavallée, A., and G. J. Constantineau, Lowell, Mass. Automatic dental advertising device. No. 932,875; Aug. 31; Sp. p. 6856; Gaz. vol. 145; p. 1177.
- Lavender, J. G., assignor to George Murphy, Inc., New York, N. Y. Developing-tank. No. 923,669; June 1; Sp. p. 1229; Gaz. vol. 143; p. 190.
- Lavens, E., New York, N. Y., assignor, by mesne assignments, to United Centadrink Manufacturing Company. Automatic liquid-dispensing cabinet. No. 929,677; Aug. 3; Sp. p. 68; Gaz. vol. 145; p. 14.
- Lavery, R. A. (See Lamb, F. E., assignor.)
- Laves, E., Hanover, Germany. Soluble-iron-albuminate preparation. No. 929,452; July 27; Sp. p. 5690; Gaz. vol. 144; p. 1000.
- Lavigne, J. P., Detroit, Mich. Valve. No. 929,606; July 27; Sp. p. 5999; Gaz. vol. 144; p. 1050.
- Lavigne, J. P., assignor to Lavigne Manufacturing Company, Detroit, Mich. Valve. No. 942,834; Dec. 7; Sp. p. 1657; Gaz. vol. 149; p. 271.
- Lavigne Manufacturing Company. (See Lavigne, J. P., assignor.)
- Lavine, S., Detroit, Mich. Radiator. No. 943,689; Dec. 21; Sp. p. 3578; Gaz. vol. 149; p. 623.
- Lavoie, A. O., Montreal, Quebec, Canada. Hydraulic motor. No. 943,943; Dec. 21; Sp. p. 4113; Gaz. vol. 149; p. 712.
- Law, A. H. (See Parsons and Law.)
- Law, C. A., Philadelphia, Pa. Garment-fastener. No. 908,584; Jan. 5; Sp. p. 312; Gaz. vol. 138; p. 53.
- Law, E., New Concord, Ohio. Wagon-dog. No. 913,740; Mar. 2; Sp. p. 135; Gaz. vol. 140; p. 23.
- Law, E. P., Amarillo, Tex. Grab for pump and drill rods. No. 921,417; May 11; Sp. p. 2725; Gaz. vol. 142; p. 469.
- Law, O. G., Dayton, Ohio. Document-filing envelop. No. 923,539; June 1; Sp. p. 940; Gaz. vol. 143; p. 146.
- Lawell, W. H. (See Tyreman, L., assignor.)
- Lawhead, J. W., *et al.* (See Baird, A. S., assignor.)
- Lawing, A. L., Lebanon, Tenn. Saw-grinding machine. No. 931,777; Aug. 24; Sp. p. 4563; Gaz. vol. 145; p. 792.
- Lawler, A., *et al.* (See Kennedy, F., assignor.)
- Lawler, J. A., Rushville, Ill. Valve. No. 914,055; Mar. 2; Sp. p. 865; Gaz. vol. 140; p. 134.
- Lawler, J. F. (See Skiles and Baldwin, assignors.)
- Lawler, J. J., Mount Vernon, N. Y. Toilet-brush. No. 944,679; Dec. 28; Sp. p. 5701; Gaz. vol. 149; p. 989.
- Lawlor, S. A. (See Lawlor, S. C., assignor.)
- Lawlor, S. C., Duluth, Minn. Implement-holder. No. 936,460; Oct. 12; Sp. p. 1819; Gaz. vol. 147; p. 303.
- Lawlor, S. C., assignor to S. A. Lawlor, Duluth, Minn. Implement-clamp. No. 916,338; Mar. 23; Sp. p. 5422; Gaz. vol. 140; p. 963.
- Lawrence, A., Los Angeles, Cal. Milk-pail. No. 937,615; Oct. 19; Sp. p. 4207; Gaz. vol. 147; p. 717.
- Lawrence, A. L., assignor to Glidden Varnish Company, Cleveland, Ohio. Graining device. No. 919,439; Apr. 27; Sp. p. 5324; Gaz. vol. 141; p. 920.
- Lawrence, C. R., Roxbury, Mass. Safety-razor. No. 932,619; Aug. 31; Sp. p. 6347; Gaz. vol. 145; p. 1095.
- Lawrence, D. F., assignor of one-half to J. H. Cole, Brandon, Vt. Screw-propeller. No. 933,768; Sept. 14; Sp. p. 1650; Gaz. vol. 146; p. 273.
- Lawrence, E. A., administratrix. (See Lawrence, I. E.)



*Alphabetical list of patentees—Continued.*

- Lawrence, E. C., and O. F. Lackey, Baltimore, Md. Reinforced concrete construction for piers and docks. No. 908,783; Jan. 5; Sp. p. 739; Gaz. vol. 138; p. 116.
- Lawrence, E. F. (See Lawrence, J. H., assignor.)
- Lawrence, E. M., Lubec, Me. Flaking-machine. No. 913,018; Feb. 23; Sp. p. 4120; Gaz. vol. 139; p. 748.
- Lawrence, G. R., assignor to Loew Manufacturing Company, Cleveland, Ohio. Machine for cleaning bottles or like articles. No. 932,145; Aug. 24; Sp. p. 5357; Gaz. vol. 145; p. 913.
- Lawrence, H. J., Longbeach, Cal. Wave-motor. No. 918,870; Apr. 20; Sp. p. 3979; Gaz. vol. 141; p. 699.
- Lawrence, I., Brooklyn, N. Y. Toy. No. 920,764; May 4; Sp. p. 1347; Gaz. vol. 142; p. 219.
- Lawrence, I., Brooklyn, N. Y. Animal-trap. No. 920,765; May 4; Sp. p. 1348; Gaz. vol. 142; p. 219.
- Lawrence, I. E., deceased, Somerville; E. A. Lawrence, Lowell, administratrix, assignor to Draper Company, Hopedale, Mass. Temple mechanism for looms. No. 932,298; Aug. 24; Sp. p. 5658; Gaz. vol. 145; p. 965.
- Lawrence, J. H., assignor of one-half to E. F. Lawrence, Sterling, Ill. Door-hanger. No. 942,860; Dec. 7; Sp. p. 1723; Gaz. vol. 149; p. 279.
- Lawrence, J. N., Nevada, Mo. Band-brake. No. 939,519; Nov. 9; Sp. p. 2370; Gaz. vol. 148; p. 393.
- Lawrence, J. P., Thomas Station, Pa. Clamp. No. 935,527; Sept. 28; Sp. p. 5141; Gaz. vol. 146; p. 903.
- Lawrence, J. S., San Javier, Mexico. Water-elevating apparatus. No. 915,778; Mar. 23; Sp. p. 4400; Gaz. vol. 140; p. 781.
- Lawrence & Kennedy. (See Kennedy, R., assignor.)
- Lawrence, L. L., Bridgeport, Ala. Canning apparatus. No. 928,773; July 20; Sp. p. 4289; Gaz. vol. 144; p. 748.
- Lawrence Manufacturing Company. (See Wilson and Paquette, assignors.)
- Lawrence, S. S., London, England. Spectacles, eyeglasses, and the like. No. 943,085; Dec. 14; Sp. p. 2294; Gaz. vol. 149; p. 389.
- Lawrence, T. H., New York, N. Y. Nut-lock. No. 916,171; Mar. 23; Sp. p. 5125; Gaz. vol. 140; p. 907.
- Lawrence, T. J. (See Stevens, L. P., assignor.)
- Lawrence, W. H., and P. Torchio, New York, N. Y. Automatic circuit-breaker. No. 940,881; Nov. 23; Sp. p. 5397; Gaz. vol. 148; p. 914.
- Lawrence, W. P., Colorado Springs, Colo. Metal construction. No. 922,919; May 25; Sp. p. 5829; Gaz. vol. 142; p. 1017.
- Lawrence, W. P., Colorado Springs, Colo. Sheet-metal tubing. No. 939,039; Nov. 2; Sp. p. 1269; Gaz. vol. 148; p. 204.
- Lawrence, W. P., Colorado Springs, Colo. Chair. No. 942,570; Dec. 7; Sp. p. 1126; Gaz. vol. 149; p. 183.
- Lawrenz, E., Lynn, Mass. Gas-producer. No. 912,580; Feb. 16; Sp. p. 3225; Gaz. vol. 139; p. 578.
- Laws, G., Phillipsburg, Pa. Gas-extractor and mine-ventilator. No. 922,603; May 25; Sp. p. 5163; Gaz. vol. 142; p. 914.
- Lawson, A., St. Louis, Mo. Book-sheet-perforating device. No. 918,871; Apr. 20; Sp. p. 3981; Gaz. vol. 141; p. 699.
- Lawson, C. C., Skyberg, Minn. Litter-carrier. No. 933,994; Sept. 14; Sp. p. 2094; Gaz. vol. 146; p. 345.
- Lawson, C. O., Middleton, Idaho. Gun-support. No. 941,640; Nov. 30; Sp. p. 7014; Gaz. vol. 148; p. 1186.
- Lawson, G. D., and A. Wheeler, Rose Hill, Va. Nut-lock. No. 938,880; Nov. 2; Sp. p. 935; Gaz. vol. 148; p. 147.
- Lawson, H. W., Nashua, N. H. Cement-pot. No. 940,333; Nov. 16; Sp. p. 4194; Gaz. vol. 148; p. 706.
- Lawson, J., Chicago, Ill. Rotary sign-display means. No. 928,990; July 27; Sp. p. 4734; Gaz. vol. 144; p. 848.
- Lawson, J. A., New York, N. Y. Combined turbine-muffler and fly-wheel. No. 938,253; Oct. 26; Sp. p. 5557; Gaz. vol. 147; p. 950.
- Lawson, J. A., New York, N. Y. Starting-crank for internal-combustion engines. No. 938,254; Oct. 26; Sp. p. 5558; Gaz. vol. 147; p. 950.
- Lawson, J. F., assignor to Cincinnati Butchers Supply Company, Cincinnati, Ohio. Hog-scraper. No. 938,594; Nov. 2; Sp. p. 345; Gaz. vol. 148; p. 52.
- Lawson, L. S., Homestead, Pa. Stand-boiler. No. 925,202; June 15; Sp. p. 4478; Gaz. vol. 143; p. 764.
- Lawson Manufacturing Company. (See Lawson, W. E., assignor.)
- Lawson, N. G. (See Harding, F. C., assignor.)
- Lawson, T., New York, N. Y. Dumping-car. No. 931,933; Aug. 24; Sp. p. 4907; Gaz. vol. 145; p. 843.
- Lawson, W. C., Roanoke, Va. Elevated tramway. No. 921,718; May 18; Sp. p. 3350; Gaz. vol. 142; p. 507.
- Lawson, W. E., assignor to Lawson Manufacturing Company, Homestead, Pa. Gas heating apparatus. No. 943,617; Dec. 14; Sp. p. 3420; Gaz. vol. 149; p. 570.
- Lawson, W. E., and W. R. Smith, Rahway, N. J. Fountain-brush. No. 919,440; Apr. 27; Sp. p. 5327; Gaz. vol. 141; p. 920.
- Lawton, B. L., Meriden, Conn., assignor, by mesne assignments, to Unit Coil Company, Jersey City, N. J. Multiple-cylinder-motor ignition apparatus. No. 911,414; Feb. 2; Sp. p. 756; Gaz. vol. 139; p. 131.
- Lawton, B. L., Meriden, Conn., assignor to Unit Coil Company. Induction-coil for ignition systems. No. 928,204; July 13; Sp. p. 3104; Gaz. vol. 144; p. 528.
- Lawton, B. L., assignor to Connecticut Telephone & Electric Company, Meriden, Conn. Induction-coil. No. 929,607; July 27; Sp. p. 6001; Gaz. vol. 144; p. 1051.
- Lawton, C. B., Penn township, Allegheny county, Pa. Manufacture of glass articles. No. 942,651; Dec. 7; Sp. p. 1292; Gaz. vol. 149; p. 211.
- Lawton, E. G., Bermuda, La. Veterinary instrument. No. 941,325; Nov. 23; Sp. p. 6341; Gaz. vol. 148; p. 1061.
- Lawton, E. O., Fitchburg, Mass. Adjustable signal-blower. No. 910,135; Jan. 19; Sp. p. 3427; Gaz. vol. 138; p. 628.
- Lawton, J. H., Oskaloosa, Iowa. Fence-wire holder. No. 937,158; Oct. 19; Sp. p. 3244; Gaz. vol. 147; p. 566.
- Laxton, J. W. R., Lynn, Mass. Ore-treating machine. No. 909,429; Jan. 12; Sp. p. 2017; Gaz. vol. 138; p. 359.
- Lay, E., Elizabeth, N. J. Window-shade adjuster. No. 918,872; Apr. 20; Sp. p. 3982; Gaz. vol. 141; p. 700.
- Layland, W. E., Leeds, and J. H. Whitehead, Apperley Bridge, England. Apparatus for drying wool after washing. No. 920,351; May 4; Sp. p. 532; Gaz. vol. 142; p. 84.
- Layman, R. E., and J. A. Bouthillier, Howard, R. I. Fastening device. No. 931,131; Aug. 17; Sp. p. 3170; Gaz. vol. 145; p. 555.
- Layman, R. T. (See Sutzer, Layman, and Kinglesmith.)
- Layne, M. E. (See Kreiter, R. F., assignor.)
- Layne, M. E., Houston, Tex. Fire-extinguishing apparatus for wells. No. 910,295; Jan. 19; Sp. p. 3813; Gaz. vol. 138; p. 687.
- Layne, M. E., Houston, Tex. Well mechanism. No. 910,696; Jan. 26; Sp. p. 4640; Gaz. vol. 138; p. 843.
- Layton, G. A. (See Marcotte, A. R., assignor.)
- Layton, W. M. (See Root, A. E., assignor.)
- Lazarovich-Hrebellanovich, E., London, England. Reticule. No. 931,627; Aug. 17; Sp. p. 4195; Gaz. vol. 145; p. 719.
- Lazarus, W., Kiel, Germany. Quicksilver-closure for fermentation vessels. No. 912,581; Feb. 16; Sp. p. 3226; Gaz. vol. 139; p. 578.
- Lazear, L. C., Chicago, Ill. Curtain-rod. No. 924,248; June 8; Sp. p. 2528; Gaz. vol. 143; p. 411.
- Le Blanc, A., New York, N. Y. Remote electric-control system for search-lights and the like. No. 939,719; Nov. 9; Sp. p. 2799; Gaz. vol. 148; p. 463.
- Le Blanc, W. T., New York, N. Y. Braiding-machine. No. 920,589; May 4; Sp. p. 1005; Gaz. vol. 142; p. 164.
- Le Blond, R. K., and W. F. Groene, assignors to R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Cutter-grinder. No. 932,791; Aug. 31; Sp. p. 6711; Gaz. vol. 145; p. 1151.
- Le Bourgeois, W. B., Convent, La. Egg-carton. No. 911,051; Feb. 2; Sp. p. 58; Gaz. vol. 139; p. 12.
- Le Bourgeois, W. B., Convent, La. Stand. No. 930,394; Aug. 10; Sp. p. 1559; Gaz. vol. 145; p. 282.
- Le Cron, R. N., St. Louis, Mo. Pressure casting apparatus. No. 927,661; July 13; Sp. p. 2002; Gaz. vol. 144; p. 348.
- Le Doux, H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Loom. No. 933,187; Sept. 7; Sp. p. 336; Gaz. vol. 146; p. 53.
- Le Doux, H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Woven pile fabric. No. 934,552; Sept. 21; Sp. p. 3177; Gaz. vol. 146; p. 554.
- Le Doux, H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Loom harness-motion. No. 935,666; Oct. 5; Sp. p. 90; Gaz. vol. 147; p. 15.
- Le Doux, H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Loom-dobby. No. 935,667; Oct. 5; Sp. p. 91; Gaz. vol. 147; p. 16.
- Le Fevre, E. S., Littlestown, Pa., and W. D. Le Fevre, Smyrna, Del. Air-ship. No. 932,712; Aug. 31; Sp. p. 6533; Gaz. vol. 145; p. 1125.
- Le Fevre, W. D. (See Le Fevre, E. S. and W. D.)
- Le Gore, J. W., Le Gore, Md. Distributer. No. 940,538; Nov. 16; Sp. p. 4650; Gaz. vol. 148; p. 775.
- Le Manquais, E. R., assignor to Le Manquais Electrical Manufacturing Company, Bellemead, N. J. Wall-cabinet for electrical apparatus. No. 942,002; Nov. 30; Sp. p. 7785; Gaz. vol. 148; p. 1311.
- Le Manquais Electrical Manufacturing Company. (See Le Manquais, E. R., assignor.)
- Le Munyon, J. L., Manhattan, Mont. Bread and cake box. No. 916,729; Mar. 30; Sp. p. 6222; Gaz. vol. 140; p. 1114.
- Le Myre, J. E., Nashua, N. H., assignor, by mesne assignments, to Patent Sales Company, Kittery, Me. Permutation-lock. No. 940,936; Nov. 23; Sp. p. 5510; Gaz. vol. 148; p. 933.
- Le Rond, L. J., Paris, France. Rotary machine. No. 919,897; Apr. 27; Sp. p. 6297; Gaz. vol. 141; p. 1075.
- Le Sueur, E. A., Ottawa, Ontario, Canada. Explosive. No. 923,435; June 1; Sp. p. 725; Gaz. vol. 143; p. 108.
- Le Van, S. P. (See Snell and Dole, assignors.)
- Le Vine, A. L., Freehold, N. J. Lawn-mower. No. 913,525; Feb. 23; Sp. p. 5151; Gaz. vol. 139; p. 918.
- Lea, E. S., Trenton, N. J., assignor, by mesne assignments, to R. Wolstenholme, Philadelphia, Pa. Automobile-wheel. No. 913,522; Feb. 23; Sp. p. 5140; Gaz. vol. 139; p. 917.
- Lea, E. S., Trenton, N. J., assignor, by mesne assignments, to R. Wolstenholme, Philadelphia, Pa. Motive power for automobiles, &c. No. 922,489; May 25; Sp. p. 4916; Gaz. vol. 142; p. 876.

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- Lea, H. I., Pittsburg, Pa., assignor to Westinghouse Machine Company. Gas-producer. No. 934,446; Sept. 21; Sp. p. 2984; Gaz. vol. 146; p. 520.
- Lea, H. I., Pittsburg, Pa., assignor to Westinghouse Machine Company. Fluid-sealed valve. No. 934,447; Sept. 21; Sp. p. 2986; Gaz. vol. 146; p. 521.
- Lea, H. I., Pittsburg, Pa., assignor to Westinghouse Machine Company. Gas-purifier. No. 934,448; Sept. 21; Sp. p. 2988; Gaz. vol. 146; p. 521.
- Lea, H. I., Pittsburg, Pa., assignor to Westinghouse Machine Company. Gas-purifying apparatus. No. 934,679; Sept. 21; Sp. p. 3441; Gaz. vol. 146; p. 599.
- Lea, J. E., Manchester, England. Antivapor-gland. No. 924,618; June 8; Sp. p. 3278; Gaz. vol. 143; p. 534.
- Leach, A., Campello, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Needle-guide. No. 942,919; Dec. 14; Sp. p. 1900; Gaz. vol. 149; p. 332.
- Leach, A. F., Boston, Mass. Portable tent. No. 941,458; Nov. 30; Sp. p. 6651; Gaz. vol. 148; p. 1127.
- Leach, J. N., Melrose, assignor, by mesne assignments, to Judson L. Thomson Manufacturing Company, Waltham, Mass. Steam-generator. No. 917,621; Apr. 6; Sp. p. 1279; Gaz. vol. 141; p. 226.
- Leach, J. N., Melrose, assignor, by mesne assignments, to Judson L. Thomson Manufacturing Company, Waltham, Mass. Burner. No. 921,850; May 18; Sp. p. 3636; Gaz. vol. 142; p. 640.
- Leach, J. N., Melrose, assignor to Judson L. Thomson Manufacturing Company, Waltham, Mass. Feed system for hydrocarbon-burners. No. 938,670; Nov. 2; Sp. p. 500; Gaz. vol. 148; p. 77.
- Leach, J. N., Melrose, Mass., assignor to Judson L. Thomson M'fg Company. Motor-vehicle. No. 917,465; Apr. 6; Sp. p. 1002; Gaz. vol. 141; p. 175.
- Leach, J. T., Fall River, Mass. Stop-motion for drawing-frames. No. 943,944; Dec. 21; Sp. p. 4114; Gaz. vol. 149; p. 713.
- Leach, J. W., Boston, assignor of one-half to S. A. Dinsmore, Somerville, Mass. Shoe. No. 922,164; May 18; Sp. p. 4244; Gaz. vol. 142; p. 742.
- Leach, L. E., Venice, Cal. Aerator. No. 937,159; Oct. 19; Sp. p. 3245; Gaz. vol. 147; p. 566.
- Leach, L. M., Fort Worth, Tex. Headlight-adjuster for automobiles. No. 922,299; May 18; Sp. p. 4524; Gaz. vol. 142; p. 786.
- Leach, O. L., Cranston, R. I. Resilient tire. No. 926,338; June 29; Sp. p. 6816; Gaz. vol. 143; p. 1199.
- Leach, R. A. (See Leach, W. W., assignor.)
- Leach, S. H., assignor to W. Volker, Kansas City, Mo. Unit shade-roller package. No. 910,697; Jan. 26; Sp. p. 4640; Gaz. vol. 138; p. 844.
- Leach, S. S., Sanitaria Springs, N. Y. Device for gathering, developing, and manfolding water-power. No. 918,173; Apr. 13; Sp. p. 2454; Gaz. vol. 141; p. 440.
- Leach, W., Brandon, Manitoba, Canada. Temporary binder. No. 917,773; Apr. 13; Sp. p. 1629; Gaz. vol. 141; p. 303.
- Leach, W., Brandon, Manitoba, Canada. Manifold-sheet for baggage-records. No. 932,620; Aug. 31; Sp. p. 6349; Gaz. vol. 145; p. 1095.
- Leach, W. W., assignor to R. A. Leach, Chicago, Ill. Measured-service automatic telephone-exchange system. No. 931,132; Aug. 17; Sp. p. 3171; Gaz. vol. 145; p. 555.
- Leadbeater, J. W., Doncaster, assignor of one-half to J. S. and J. H. Booth, Wakefield, England. Artificial fuel. No. 909,626; Jan. 12; Sp. p. 2412; Gaz. vol. 138; p. 427.
- Leader Machine Company. (See Lindstrom, H., assignor.)
- Leadon, J. M., Jr., Shieldsville, Minn. Wire-supporting device. No. 940,034; Nov. 16; Sp. p. 3480; Gaz. vol. 148; p. 601.
- Leaf, L. (See Staadt, H., assignor.)
- Leager, I. T., Chestertown, Md. Corn-shocker. No. 938,595; Nov. 2; Sp. p. 350; Gaz. vol. 148; p. 52.
- Leahy, A. C., deceased; E. B. Stimpson, executor, New York, N. Y. Fastener. No. 928,163; July 13; Sp. p. 3002; Gaz. vol. 144; p. 513.
- Leahy, E. C., Sydney, Nova Scotia, Canada. Composite heel for boots and shoes. No. 931,438; Aug. 17; Sp. p. 3843; Gaz. vol. 145; p. 662.
- Leahy, E. C., Sydney, Nova Scotia, Canada. Head-rest. No. 933,471; Sept. 7; Sp. p. 999; Gaz. vol. 146; p. 151.
- Leahy, J. W., deceased, Jersey City, N. J.; M. A. Leahy, administratrix. Railway-tie. No. 940,640; Nov. 16; Sp. p. 4861; Gaz. vol. 148; p. 809.
- Leahy, J. W., deceased, Chicago, Ill.; M. A. Leahy, administratrix. Railway-tie. No. 940,641; Nov. 16; Sp. p. 4862; Gaz. vol. 148; p. 809.
- Leahy, M. A., administratrix. (See Leahy, J. W.)
- Leake, B. G., Fort Worth, Tex., assignor of one-half to B. V. Cummins, Waurika, Okla. Portable concrete-mixer. No. 914,291; Mar. 2; Sp. p. 1355; Gaz. vol. 140; p. 210.
- Leake, J. (See Forth, M. J., assignor.)
- Leake, T. S., St. Louis, Mo. Device for disposing of ashes and cinders from locomotives. No. 924,678; June 15; Sp. p. 3408; Gaz. vol. 143; p. 586.
- Leal, H. (See Bendz, N. N., assignor.)
- Leamann, J. E., assignor to August Maag Company of Baltimore City, Baltimore, Md. Bread-pan. No. 917,622; Apr. 6; Sp. p. 1283; Gaz. vol. 141; p. 227.
- Leaning, C. W., Yankton, S. D. Car-door. No. 929,453; July 27; Sp. p. 5697; Gaz. vol. 144; p. 1000.
- Lear, O. J., assignor to S. D. Lewis, trustee, Newport, N. H. Machine for cementing shoe-linings. No. 921,261; May 11; Sp. p. 2382; Gaz. vol. 142; p. 417.
- Learnan, L. F., assignor of one-half to E. M. Coon, St. Paul, Minn. Safety-block for railway-tracks. No. 942,835; Dec. 7; Sp. p. 1658; Gaz. vol. 149; p. 271.
- Learned, J. R. (See Campbell, S. A., assignor.)
- Leary, H. B. (See Hart, W. H., assignor.) (Reissue.)
- Leasure, F. M. (See Leasure, I. L., assignor.)
- Leasure, I. L., assignor of one-half to F. M. Leasure, Templeton, Pa. Caster. No. 930,199; Aug. 3; Sp. p. 1201; Gaz. vol. 145; p. 196.
- Leatart, A. L., Los Angeles, Cal. Engraving-block-jaw attachment. No. 921,126; May 11; Sp. p. 2106; Gaz. vol. 142; p. 371.
- Leathers, C. C., Leytonstone, England. Vaporizer for disinfectants. No. 940,604; Nov. 16; Sp. p. 4783; Gaz. vol. 148; p. 797.
- Leavell, D. B. (See Kloer and Leavell.)
- Leavell, T. G., assignor of one-fifth to W. J. Parks, one-fifth to H. L. Herkelrath, one-fifth to E. E. Brandt, and one-fifth to M. J. Hills. Spokane, Wash. Placer-gold separator. No. 919,894; Apr. 27; Sp. p. 6294; Gaz. vol. 141; p. 1075.
- Leavell, T. G., assignor of three-fourths to O. C. Shaw, Spokane, Wash. Threshing-cylinder. No. 925,358; June 15; Sp. p. 4758; Gaz. vol. 143; p. 812.
- Leavitt, F. M., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Gyroscopic steering-gear. No. 925,709; June 22; Sp. p. 5475; Gaz. vol. 143; p. 956.
- Leavitt, F. M., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Steering mechanism for torpedoes. No. 925,710; June 22; Sp. p. 5477; Gaz. vol. 143; p. 956.
- Leavitt, F. M., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Diving-gear for submarine boats. No. 933,083; Sept. 7; Sp. p. 93; Gaz. vol. 146; p. 16.
- Leavitt, F. M., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Air-heater for automobile torpedoes. No. 943,833; Dec. 21; Sp. p. 3872; Gaz. vol. 149; p. 673.
- Leavitt, G. W., Pittsburg, Kans. Device for raising journal-brasses. No. 910,830; Jan. 26; Sp. p. 4911; Gaz. vol. 138; p. 886.
- Leavitt Machine Company. (See Smith and Williams, assignors.)
- Leavitt Machine Company. (See Williams, T. B., assignor.)
- Leavitt, S. A., Gorham, N. H. Composition of matter. No. 930,976; Aug. 10; Sp. p. 2800; Gaz. vol. 145; p. 475.
- Leavy, J., New York, N. Y., assignor to Crouch & Fitzgerald. Garment-receptacle. No. 920,352; May 4; Sp. p. 534; Gaz. vol. 142; p. 85.
- Lebenberg, M., Berlin, Germany. Suction apparatus. No. 943,426; Dec. 14; Sp. p. 2977; Gaz. vol. 149; p. 502.
- Lebherz, H. J., Frederick, Md., assignor, by mesne assignments, to Ox Fibre Brush Company. Machine for trimming and cleaning brushes. No. 913,523; Feb. 23; Sp. p. 5144; Gaz. vol. 139; p. 917.
- Lebherz, H. J., Frederick, Md., assignor, by mesne assignments, to Ox Fibre Brush Company. Brush-machine. No. 920,588; May 4; Sp. p. 1001; Gaz. vol. 142; p. 163.
- Lebold, M., and J. Rath, Lafayette, Pa. Tap for drawing liquids from casks, &c. No. 932,146; Aug. 24; Sp. p. 5362; Gaz. vol. 145; p. 914.
- Lebrasseur, A., Paris, France, assignor to Sturtevant Engineering Company, Limited, London, England. Centrifugal apparatus for separating solid matters from air. No. 928,673; July 20; Sp. p. 4103; Gaz. vol. 144; p. 715.
- Lecheler, L., Chicago, Ill. Machine for splitting and core-slicing cabbages. No. 941,262; Nov. 23; Sp. p. 6207; Gaz. vol. 148; p. 1042.
- Lechner, F. X., Chicago, Ill. Insecticide. No. 930,549; Aug. 10; Sp. p. 1909; Gaz. vol. 145; p. 336.
- Lederer, A., Atzgersdorf, near Vienna, Austria-Hungary. Manufacture of glowing bodies of refractory metals for electric lamps. No. 908,682; Jan. 5; Sp. p. 538; Gaz. vol. 138; p. 83.
- Lederer, F. J., Buffalo, N. Y. Air-brush. No. 918,754; Apr. 20; Sp. p. 3728; Gaz. vol. 141; p. 661.
- Lederer, J., New York, N. Y. Inverted gas-burner. No. 917,774; Apr. 13; Sp. p. 1630; Gaz. vol. 141; p. 303.
- Lederer, J., New York, N. Y. Inverted gas-burner. No. 920,353; May 4; Sp. p. 535; Gaz. vol. 142; p. 85.
- Ledoux, A. R., *et al.* (See Kendall, E. D., assignor.) (Reissue.)
- Ledoux, J. W., Swarthmore, Pa., assignor to Simplex Valve & Meter Company, Camden, N. J. Air-valve. No. 939,277; Nov. 9; Sp. p. 1802; Gaz. vol. 148; p. 311.



*Alphabetical list of patentees—Continued.*

- Ledterman, J. E., assignor of one-half to H. McCorkle, Chicago, Ill. Weather-strip. No. 944,042; Dec. 21; Sp. p. 4324; Gaz. vol. 149; p. 745.
- Ledwinka, J., Philadelphia, Pa. Trolley. No. 933,084; Sept. 7; Sp. p. 97; Gaz. vol. 146; p. 16.
- Ledwon, J. W., South River, N. J. Safety device for railways. No. 924,910; June 15; Sp. p. 3900; Gaz. vol. 143; p. 665.
- Lee, A. F., assignor to Grover & Lee Company, Buffalo, N. Y. Jar or bottle stopper. No. 914,960; Mar. 9; Sp. p. 2707; Gaz. vol. 140; p. 455.
- Lee, A. P., assignor to J. W. Ivory, Philadelphia, Pa. Appliance for making dental castings. No. 920,483; May 4; Sp. p. 781; Gaz. vol. 142; p. 127.
- Lee, A. W. (See Wilson and Lee.)
- Lee Broom & Duster Company. (See Duvall, G. W., assignor.)
- Lee, C. A., Oneida, N. Y. Cushion-stuffing device. No. 939,278; Nov. 9; Sp. p. 1803; Gaz. vol. 148; p. 312.
- Lee, C. A., assignor of one-half to G. F. Kallahs, Neenah, Wis. Candy-pail. No. 928,263; July 20; Sp. p. 3262; Gaz. vol. 144; p. 579.
- Lee, C. F. (See Lee, H. V., O. S., and C. F.)
- Lee, C. M., Gibbon, Nebr. Propeller mechanism for air-ships. No. 936,916; Oct. 12; Sp. p. 2736; Gaz. vol. 147; p. 457.
- Lee, C. O., Modesto, Cal. Fruit-evaporator. No. 924,476; June 8; Sp. p. 2966; Gaz. vol. 143; p. 486.
- Lee, C. W., Oxnard, Cal. Garment holder and supporter. No. 929,096; July 27; Sp. p. 4946; Gaz. vol. 144; p. 882.
- Lee Crepe Napkin Company. (See Pope, C. E., assignor.)
- Lee, D. B., Detroit, Mich. Jewel-cup for faucets. No. 919,602; Apr. 27; Sp. p. 5684; Gaz. vol. 141; p. 977.
- Lee, D. C., Detroit, Mich. Embroidering attachment for sewing-machines. No. 939,603; Nov. 9; Sp. p. 2566; Gaz. vol. 148; p. 421.
- Lee, E. C. (See Caminade, W. B., assignor.)
- Lee, F. M., Geneva, Ind. Pumping power. No. 912,475; Feb. 16; Sp. p. 2991; Gaz. vol. 139; p. 541.
- Lee, G. A., assignor, by mesne assignments, to Recometre Company of America, New York, N. Y. Speed-recorder. No. 912,003; Feb. 9; Sp. p. 2003; Gaz. vol. 139; p. 350.
- Lee, G. H., Omaha, Nebr. Brooder. No. 918,174; Apr. 13; Sp. p. 2455; Gaz. vol. 141; p. 440.
- Lee, G. H., Omaha, Nebr. Thermometer-hanger for incubators. No. 932,299; Aug. 24; Sp. p. 5659; Gaz. vol. 145; p. 965.
- Lee, G. H., Omaha, Nebr. Hygrometer for incubators. No. 934,409; Sept. 14; Sp. p. 2901; Gaz. vol. 146; p. 485.
- Lee, G. H., Omaha, Nebr. Lamp-chimney. No. 940,468; Nov. 16; Sp. p. 4498; Gaz. vol. 148; p. 752.
- Lee, H. J., and E. F. Gray, Scranton, Pa., assignors of two-thirds to said Lee and one-third to said Gray. Package-tie. No. 939,040; Nov. 2; Sp. p. 1272; Gaz. vol. 148; p. 204.
- Lee, H. V., O. S., and C. F., Youngstown, assignors of one-half to A. E. Hazlrigg and C. Ladd, Terre Haute, Ind. Beet-harvester. No. 938,881; Nov. 2; Sp. p. 936; Gaz. vol. 148; p. 148.
- Lee Improvement Company. (See Levy, J., assignor.)
- Lee Improvement Company. (See Levy and Young, assignors.)
- Lee, J. A., Salt Lake City, Utah. Cattle-guard. No. 922,165; May 18; Sp. p. 4245; Gaz. vol. 142; p. 742.
- Lee, J. B., Knoxville, Tenn. Siphon. No. 915,867; Mar. 23; Sp. p. 4552; Gaz. vol. 140; p. 809.
- Lee, J. E., Conshohocken, Pa. First-aid package. No. 922,435; May 18; Sp. p. 4801; Gaz. vol. 142; p. 831.
- Lee, J. E., Milwaukee, Wis. Hanging shelf. No. 938,596; Nov. 2; Sp. p. 353; Gaz. vol. 148; p. 53.
- Lee, J. E., Conshohocken, Pa., assignor to Johnson and Johnson, New Brunswick, N. J. Putting up bandages. (Reissue.) No. 12,920; Feb. 16; Sp. p. 4053; Gaz. vol. 139; p. 712.
- Lee, J. H., and C. P. Vittoe, Rome, Ind. Planter. No. 924,911; June 15; Sp. p. 3903; Gaz. vol. 143; p. 666.
- Lee, J. L., Pasadena, Cal. Printer's galley. No. 940,975; Nov. 23; Sp. p. 5586; Gaz. vol. 148; p. 945.
- Lee, O. S. (See Lee, H. V., O. S., and C. F.)
- Lee, O. S., Youngstown, Ind. Dish-washing machine. No. 911,052; Feb. 2; Sp. p. 59; Gaz. vol. 139; p. 12.
- Lee, R. H., and W. P. Martin, Lebanon, Pa. Blast-furnace-charging apparatus. No. 914,432; Mar. 9; Sp. p. 1654; Gaz. vol. 140; p. 282.
- Lee, T., Home City, Ohio. Ventilator. No. 910,398; Jan. 19; Sp. p. 4016; Gaz. vol. 138; p. 721.
- Lee, T., Home City, Ohio. Metallic window. No. 942,269; Dec. 7; Sp. p. 511; Gaz. vol. 149; p. 80.
- Lee, W. H., assignor to Syracuse Chilled Plow Company, Syracuse, N. Y. Sulky-plow. No. 941,887; Nov. 30; Sp. p. 7564; Gaz. vol. 148; p. 1273.
- Lee, W. H., V. T. Snover, and M. H. Palmer, Wyalusing, Pa. Machine for forming calks on horseshoes and for sharpening such calks. No. 933,995; Sept. 14; Sp. p. 2095; Gaz. vol. 146; p. 345.
- Lee, W. J., Arcadia, Mo. Wick-trimmer. No. 916,881; Mar. 30; Sp. p. 6497; Gaz. vol. 140; p. 1161.
- Lee, W. M., Memphis, Tenn. Wood-sawing machine. No. 926,265; June 29; Sp. p. 6665; Gaz. vol. 143; p. 1177.
- Lee, W. T., assignor to William B. Riley & Co., Philadelphia, Pa. Horse-blanket. No. 919,038; Apr. 20; Sp. p. 4319; Gaz. vol. 141; p. 754.
- Leech, A. Y., Jr., assignor to United States Ordnance Company, Washington, D. C. Firing mechanism for guns. No. 925,642; June 22; Sp. p. 5340; Gaz. vol. 143; p. 935.
- Leech, C. M., Lima, Ohio. Friction transmission-gearing. No. 910,136; Jan. 19; Sp. p. 3428; Gaz. vol. 138; p. 628.
- Leech, C. M., Lima, Ohio. Gas-engine. No. 914,292; Mar. 2; Sp. p. 1357; Gaz. vol. 140; p. 210.
- Leech, W., and C. L. De Ryder, Marysville, Cal. Hopple for horses. No. 934,449; Sept. 21; Sp. p. 2989; Gaz. vol. 146; p. 521.
- Leeds Forge Company. (See Sharp and Rowntree, assignors.)
- Leedy Manufacturing Company. (See Leedy and Wanamaker, assignors.)
- Leedy Manufacturing Company. (See Wanamaker, C. B., assignor.)
- Leedy, U. G., and C. B. Wanamaker, assignors to Leedy Manufacturing Company, Indianapolis, Ind. Rattle. No. 923,672; June 1; Sp. p. 1234; Gaz. vol. 143; p. 191.
- Leef, R. I., Alhambra, Ill. Telegraph-key. No. 916,727; Mar. 30; Sp. p. 6218; Gaz. vol. 140; p. 1113.
- Leeking, H. D., Lancaster, Pa. Combined dish pan and drainer. No. 943,750; Dec. 21; Sp. p. 3709; Gaz. vol. 149; p. 645.
- Leen, J. D. (See Cummings and Leen.)
- Leen, J. D., Bangor, Me. Clothes-drier. No. 926,813; July 6; Sp. p. 214; Gaz. vol. 144; p. 36.
- Leeper, E. M., San Diego, Cal. Heating vessel. No. 917,954; Apr. 13; Sp. p. 1998; Gaz. vol. 141; p. 364.
- Leer, W. C., Newcastle, Nebr. Harvester-reel. No. 925,359; June 15; Sp. p. 4758; Gaz. vol. 143; p. 813.
- Lees, E. J., assignor to Grant-Lees Machine Company, Cleveland, Ohio. Micrometer. No. 909,623; Jan. 12; Sp. p. 2404; Gaz. vol. 138; p. 426.
- Lees, E. J., assignor to Grant-Lees Company, Cleveland, Ohio. Self-adjusting oil-pump. No. 917,466; Apr. 6; Sp. p. 1005; Gaz. vol. 141; p. 175.
- Lees, E. J., assignor to Grant-Lees Machine Company, Cleveland, Ohio. Hob for gear-cuttings. No. 924,679; June 15; Sp. p. 3411; Gaz. vol. 143; p. 587.
- Lees, H. R., Daylesford, Victoria, Australia. Machine for harvesting potatoes. No. 915,449; Mar. 16; Sp. p. 3700; Gaz. vol. 140; p. 642.
- Lees, J. R., assignor to Colorado Pressed Steel Co., Denver, Colo. Cover for beet-flumes. No. 922,920; May 25; Sp. p. 5830; Gaz. vol. 142; p. 1017.
- Leese, T. S., Avalon, Pa. Burner. No. 930,672; Aug. 10; Sp. p. 2155; Gaz. vol. 145; p. 376.
- Leet, E. H., and J. E. Stoll, Milwaukee, Wis. Frame for motor-cycles, bicycles, and the like. No. 944,795; Dec. 28; Sp. p. 5960; Gaz. vol. 149; p. 1027.
- Leet, F. R. (See Flowers and Leet.)
- Leethem, F. C., Middletown, N. Y. Press-bed. No. 915,868; Mar. 23; Sp. p. 4555; Gaz. vol. 140; p. 809.
- Leethem, F. C., Middletown, N. Y. Printer's hook. No. 920,354; May 4; Sp. p. 538; Gaz. vol. 142; p. 85.
- Leets, A., et al. (See Smith, G. A., assignor.)
- Leetven, W., Manayunk, Pa. Vegetable strainer or cooker. No. 931,070; Aug. 17; Sp. p. 3054; Gaz. vol. 145; p. 535.
- Lefebvre, E. A., Jr., and W. I. Miller, Brooklyn, N. Y. Switch for electric lamps. No. 932,792; Aug. 31; Sp. p. 6714; Gaz. vol. 145; p. 1151.
- Lefever, C. F., Toledo, Ohio. Firearm. No. 944,448; Dec. 28; Sp. p. 5183; Gaz. vol. 149; p. 909.
- Lefevre, A., et al. (See Villeneuve, A., assignor.)
- Lefevre, E., Luxembourg, assignor of one-half to A. Dupont, Tonet, Wis. Tobacco-cutting machine. No. 920,879; May 4; Sp. p. 1612; Gaz. vol. 142; p. 257.
- Lefevre, W. H., Lancaster, Pa. Mail-car fork. No. 917,775; Apr. 13; Sp. p. 1633; Gaz. vol. 141; p. 303.
- Leffingwell, D. A., Uhrichsville, Ohio. Combined boots and trousers. No. 924,249; June 8; Sp. p. 2529; Gaz. vol. 143; p. 411.
- Lefkowitz, H. B. (See Roffy, J. T., assignor.)
- Leftwich, C. J. (See Lukenbill, A. G., assignor.)
- Leftwich, F. H., Flat Woods, assignor of one-third to T. D. Tatrom, Lovic, and one-third to G. A. Ary, Flat Woods, Tenn. Rotary engine. No. 937,824; Oct. 26; Sp. p. 4636; Gaz. vol. 147; p. 803.
- Leftwich, W. D., Wilkinsburg, Pa. Coupling mechanism. No. 940,334; Nov. 16; Sp. p. 4195; Gaz. vol. 148; p. 707.
- Legault, B., Montreal, Quebec, Canada. Railway-switch mechanism. No. 939,279; Nov. 9; Sp. p. 1804; Gaz. vol. 148; p. 312.
- Légal, A. J. B., London, England. Turbine. No. 915,099; Mar. 16; Sp. p. 2978; Gaz. vol. 140; p. 527.
- Legere, A. C., Halifax, Nova Scotia, Canada. Nut-locking washer. No. 917,776; Apr. 13; Sp. p. 1635; Gaz. vol. 141; p. 304.
- Legg, A. G., assignor to Lockett Crimping Machine Company, Brockton, Mass. Making vamps for boots and shoes. No. 920,070; Apr. 27; Sp. p. 6651; Gaz. vol. 141; p. 1132.

*Alphabetical list of patentees—Continued.*

- Legg, A. G., assignor to Lockett Crimping Machine Company, Brockton, Mass. Crimping-machine. No. 944,337; Dec. 28; Sp. p. 4933; Gaz. vol. 149; p. 870.
- Legg, J. B., (See Reece, W. H., assignor.)
- Legg, R. C. D., Paterson, N. J. Bottle-holder. No. 926,339; June 29; Sp. p. 6817; Gaz. vol. 143; p. 1199.
- Legge, T. A., (See Hamm and Legge.)
- Leggett, T. A., assignor to Adams & Westlake Company, Chicago, Ill. Car-window. No. 942,270; Dec. 7; Sp. p. 513; Gaz. vol. 149; p. 80.
- Leggett, C. H., New York, N. Y. Insecticide-distributor. No. 916,728; Mar. 30; Sp. p. 6220; Gaz. vol. 140; p. 1113.
- Leggett, E., Brooklyn, N. Y., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Revolver. No. 933,188; Sept. 7; Sp. p. 339; Gaz. vol. 146; p. 54.
- Leggo, A. V., St. Kilda, Victoria, Australia. Rabble for ore-roasting furnaces. No. 940,537; Nov. 16; Sp. p. 4646; Gaz. vol. 148; p. 774.
- Leggott, F. J., Peru, Ill. Shoe-closer. No. 926,340; June 29; Sp. p. 6818; Gaz. vol. 143; p. 1200.
- Legrand, C. M., (See Arnel and Legrand.)
- Leh, A. J., and E. C. Hellick, Nazareth, Pa. Detachable handle for bottles and the like. No. 933,085; Sept. 7; Sp. p. 98; Gaz. vol. 146; p. 17.
- Lehigh, C. M., Chicago, Ill. Rake. No. 938,882; Nov. 2; Sp. p. 940; Gaz. vol. 148; p. 148.
- Lehman, C., Elgin, Iowa. Antisagging device for doors. No. 929,958; Aug. 3; Sp. p. 713; Gaz. vol. 145; p. 114.
- Lehman, M., L. Brown, and E. W. Sohlberg, Kansas City, Mo. Racing amusement apparatus. No. 912,004; Feb. 9; Sp. p. 2008; Gaz. vol. 139; p. 350.
- Lehman, M., L. Brown, and E. W. Sohlberg, Kansas City, Mo. Racing amusement apparatus. No. 912,005; Feb. 9; Sp. p. 2013; Gaz. vol. 139; p. 351.
- Lehmann, A., Guben, Germany. Collapsible floating basket. No. 911,661; Feb. 9; Sp. p. 1275; Gaz. vol. 139; p. 239.
- Lehmann, A. E., St. Charles, Mo. Excavating apparatus. No. 940,035; Nov. 16; Sp. p. 3481; Gaz. vol. 148; p. 602.
- Lehmann, E., (See Lehmann, K. and E.)
- Lehmann, E. P., Brandenburg-on-the-Havel, Germany. Tie for packing-boxes. No. 910,551; Jan. 26; Sp. p. 4342; Gaz. vol. 138; p. 797.
- Lehmann, E. P., Brandenburg-on-the-Havel, Germany. Tie for packing-boxes. (Reissue.) No. 12,941; Apr. 13; Sp. p. 3113; Gaz. vol. 141; p. 546.
- Lehmann, J. C., North Yakima, Wash. Mortising-tool. No. 910,929; Jan. 26; Sp. p. 5091; Gaz. vol. 138; p. 918.
- Lehmann, H., Magdeburg, assignor to Fried. Krupp Aktiengesellschaft Grusonwerk, Magdeburg-Buckau, Germany. Machine for producing gear-wheels according to pattern. No. 926,989; July 6; Sp. p. 578; Gaz. vol. 144; p. 95.
- Lehmann, H., Magdeburg-Sudenburg, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-loading recoil gun. No. 934,325; Sept. 14; Sp. p. 2735; Gaz. vol. 146; p. 455.
- Lehmann, J., Muncie, Ind. High-speed tooth and blade cutter. No. 910,137; Jan. 19; Sp. p. 3430; Gaz. vol. 138; p. 628.
- Lehmann, K., Wilmersdorf-Berlin, and E. Lehmann, Küstrin-Neustadt, Germany. Combustion device for doing away with exhaust-gases in combustion-engines. No. 939,844; Nov. 9; Sp. p. 3063; Gaz. vol. 148; p. 506.
- Lehmig, R., (See Hurwitz and Lehmig.)
- Lehr, A. A., Roxbury, Mass. Game apparatus. No. 923,863; June 8; Sp. p. 1717; Gaz. vol. 143; p. 286.
- Leib, A. T., Chicago, Ill. Means for securing covers to vessels. No. 922,166; May 18; Sp. p. 4246; Gaz. vol. 142; p. 742.
- Leibe, H., Chicago, Ill. Burnishing-machine. No. 934,553; Sept. 21; Sp. p. 3178; Gaz. vol. 146; p. 555.
- Leibly, C. F., and C. C. Wilson, Seattle, Wash. Wagon-brake. No. 915,685; Mar. 16; Sp. p. 4203; Gaz. vol. 140; p. 724.
- Leiby, H. W., Allentown, Pa. Spirit-level. No. 926,661; June 29; Sp. p. 7404; Gaz. vol. 143; p. 1306.
- Leich, O. M., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Switchboard-signal. No. 918,682; Apr. 20; Sp. p. 3581; Gaz. vol. 141; p. 636.
- Leich, O. M., assignor to Cracraft-Leich Electric Co., Genoa, Ill. Telephone system. No. 938,154; Oct. 26; Sp. p. 5356; Gaz. vol. 147; p. 914.
- Leich, O. M., assignor to Cracraft-Leich Electric Company, Genoa, Ill. Signaling system. No. 938,155; Oct. 26; Sp. p. 5358; Gaz. vol. 147; p. 914.
- Leich, O. M., Rochester, N. Y., assignor of one-third to J. G. Ihmsen and one-third to M. W. Zabel, Chicago, Ill. Selective signaling apparatus. No. 943,115; Dec. 14; Sp. p. 2350; Gaz. vol. 149; p. 399.
- Leicht, J., Burlington, Iowa. Barrel-head. No. 919,441; Apr. 27; Sp. p. 5329; Gaz. vol. 141; p. 921.
- Leidel, H., New York, N. Y. Pipe. No. 908,871; Jan. 5; Sp. p. 911; Gaz. vol. 138; p. 145.
- Leider, J., (See Johnson and Leider.)
- Leidigh, J. J., Milwaukee, Wis. Electromagnetic punch. No. 917,955; Apr. 13; Sp. p. 1998; Gaz. vol. 141; p. 364.
- Leigh, F. J., Chicago, Ill., assignor to A. O. Smith, Milwaukee, Wis. Speed-regulating mechanism. (Reissue.) No. 13,021; Sept. 14; Sp. p. 2934; Gaz. vol. 146; p. 490.
- Leighton, H., Geneva, assignor of one-half to W. S. Clark, Middlefield, Ohio. Bowling-alley amusement device. No. 939,280; Nov. 9; Sp. p. 1808; Gaz. vol. 148; p. 312.
- Leighty, H. M. F., Dawson, Iowa. Neck-yoke center. No. 929,608; July 27; Sp. p. 6003; Gaz. vol. 144; p. 1051.
- Leihammer, A., (See Cottrill and Leihammer.)
- Leiman, G. W. and W. H., Newark, N. J. Air compressor or blower. No. 925,203; June 15; Sp. p. 4479; Gaz. vol. 143; p. 765.
- Leiman, W. H., (See Leiman, G. W. and W. H.)
- Leimau, N., Fort Washington, Pa., assignor of one-half to T. J. McCarthy, Los Angeles, Cal. Carbureter. No. 915,684; Mar. 16; Sp. p. 4200; Gaz. vol. 140; p. 724.
- Leinbach, P. K., *et al.* (See Jackson, C., assignor.)
- Leinbach, W. M., *et al.* (See Jackson, C., assignor.)
- Leinbrock, P., Copitz, near Dresden, Germany. Closure for bottles and like vessels. No. 922,167; May 18; Sp. p. 4247; Gaz. vol. 142; p. 742.
- Leinweber, H., Chicago, Ill. Pneumatic tool. No. 938,774; Nov. 2; Sp. p. 693; Gaz. vol. 148; p. 111.
- Leininger, G., assignor, by mesne assignments, to International Chemical Company, Chicago, Ill. Vaporizer for disinfectants. No. 930,977; Aug. 10; Sp. p. 2800; Gaz. vol. 145; p. 475.
- Leipziger Maschinenbau-Gesellschaft m. b. H., (See Jay, R., assignor.)
- Leiser, C. W., Salt Lake City, Utah. Telegraph-transmitter. No. 925,925; June 22; Sp. p. 5954; Gaz. vol. 143; p. 1027.
- Leiss, E., Bronville, N. Y. Egg-tester. No. 933,472; Sept. 7; Sp. p. 1000; Gaz. vol. 146; p. 151.
- Leiss, E., Bronville, N. Y. Egg-tester. No. 942,652; Dec. 7; Sp. p. 1294; Gaz. vol. 149; p. 211.
- Leister, W. P., Cliffside, N. C. Pneumatic sweeper. No. 915,613; Mar. 16; Sp. p. 4032; Gaz. vol. 140; p. 696.
- Leistner, P. G., St. Charles, Mo. Grease-cup. No. 912,693; Feb. 16; Sp. p. 3457; Gaz. vol. 139; p. 617.
- Leisure, F. M., Templeton, Pa. Envelop. No. 941,350; Nov. 23; Sp. p. 6394; Gaz. vol. 148; p. 1069.
- Leith, J., assignor of one-half to H. Caya, Sherbrooke, Quebec, Canada. Street-railway switch. No. 939,041; Nov. 2; Sp. p. 1274; Gaz. vol. 148; p. 205.
- Leitner, G. H., and W. E. Johnson, Augusta, Ga., assignors to Draper Company, Hopedale, Mass. Pick-matching mechanism for automatic weft-replenishing looms. No. 927,662; July 13; Sp. p. 2004; Gaz. vol. 144; p. 349.
- Leitschuh, J., (See Currier and Leitschuh.)
- Leivesley, W., Springsure, Queensland, Australia. Telegraph system. No. 936,140; Oct. 5; Sp. p. 1138; Gaz. vol. 147; p. 173.
- Lekam, P., Flanagan Town, Trinidad, British West Indies. Oyster-opener. No. 930,771; Aug. 10; Sp. p. 2361; Gaz. vol. 145; p. 409.
- Leland & Co., W. H., (See Gifford, Burns, and Bishop, assignors.)
- Leland, H. J., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Saw-frame. No. 925,112; June 15; Sp. p. 4305; Gaz. vol. 143; p. 733.
- Leland, J. A., (See Parsons and Leland.)
- Leland, J. A., assignor to Millers Falls Company, Millers Falls, Mass. Chuck. No. 912,582; Feb. 16; Sp. p. 3228; Gaz. vol. 139; p. 579.
- Leland, J. A., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Bit extension. No. 929,231; July 27; Sp. p. 5234; Gaz. vol. 144; p. 927.
- Leland, J. A., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Ratchet-brace. No. 935,266; Sept. 28; Sp. p. 4609; Gaz. vol. 146; p. 819.
- Leland, J. A., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Miter-box. No. 935,375; Sept. 28; Sp. p. 4828; Gaz. vol. 146; p. 854.
- Leland, J. A., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Chuck. No. 936,644; Oct. 12; Sp. p. 2209; Gaz. vol. 147; p. 365.
- Leland, J. A., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Spiral screw-driver. No. 942,571; Dec. 7; Sp. p. 1129; Gaz. vol. 149; p. 183.
- Leland, J. A., and W. G. Stebbins, Montague, assignors to Millers Falls Company, Millers Falls, Mass. Automatic tool for boring. No. 942,572; Dec. 7; Sp. p. 1133; Gaz. vol. 149; p. 184.
- Lemale, C., Paris, France. Turbine. No. 919,895; Apr. 27; Sp. p. 6296; Gaz. vol. 141; p. 1075.
- Lemb, W., Brooklyn, N. Y. Lining for walls. No. 915,195; Mar. 16; Sp. p. 3207; Gaz. vol. 140; p. 560.
- Lemcke, L., assignor of one-half to A. A. Ebersson, St. Louis, Mo. Apparatus for constructing dress-forms. No. 944,796; Dec. 28; Sp. p. 5963; Gaz. vol. 149; p. 1028.
- Lemerand, W. E., Monroe, Mich. Hair-ribbon fastener. No. 916,339; Mar. 23; Sp. p. 5425; Gaz. vol. 140; p. 964.



*Alphabetical list of patentees—Continued.*

- Lemercier, M. A., assignor to Soci   des Jantes Amovibles, Paris, France. Detachable rim for pneumatic or other tires. No. 932,876; Aug. 31; Sp. p. 6857; Gaz. vol. 145; p. 1177.
- Lemieux, G., Washburn, Wis. Railway-tie. No. 938,003; Oct. 26; Sp. p. 5008; Gaz. vol. 147; p. 863.
- Lemieux, L. (See Pecci, P. N., assignor.)
- Lemke, L., Fulton, Ill. Kitchen-rack. No. 919,896; Apr. 27; Sp. p. 6296; Gaz. vol. 141; p. 1075.
- Lemley, F. J., Chicago, Ill. Friction-clutch. No. 911,415; Feb. 2; Sp. p. 758; Gaz. vol. 139; p. 132.
- Lemna, A. C., Fremont, Ohio. Cap-opener. No. 940,396; Nov. 16; Sp. p. 4358; Gaz. vol. 148; p. 729.
- Lennon, G. E., Bedford Springs, Va. Railway-switch. No. 932,560; Aug. 31; Sp. p. 6195; Gaz. vol. 145; p. 1074.
- Lemon, D. M., Boston, Mass. Machine for cutting butter, &c. No. 927,734; July 13; Sp. p. 2141; Gaz. vol. 144; p. 371.
- Lemon, L. F., and J. C. Stoops, Neodesha, Kans.; said Stoops assignor of one-third to said Lemon. Stock-releaser. No. 942,875; Dec. 7; Sp. p. 1767; Gaz. vol. 149; p. 285.
- Lemon, O. O., Cambria, Va. Rotary valve-gear. No. 931,934; Aug. 24; Sp. p. 4910; Gaz. vol. 145; p. 843.
- Lemon, R. L. (See Woche, Lemon, and Mortsoff.)
- Lemp, H., Lynn, Mass., assignor to General Electric Company. Power-generating system. No. 910,331; Jan. 19; Sp. p. 3883; Gaz. vol. 138; p. 699.
- Lemp, H., Lynn, Mass., assignor to General Electric Company. Heating system. No. 919,365; Apr. 27; Sp. p. 5166; Gaz. vol. 141; p. 895.
- Lemp, H., Lynn, Mass., assignor to General Electric Company. Heating system. No. 919,366; Apr. 27; Sp. p. 5170; Gaz. vol. 141; p. 896.
- Lemp, H., Lynn, Mass., assignor to General Electric Company. Condenser. No. 920,591; May 4; Sp. p. 1011; Gaz. vol. 142; p. 164.
- Lemp, H., Lynn, Mass., assignor to General Electric Company. Double-tank fuel system. No. 922,604; May 25; Sp. p. 5164; Gaz. vol. 142; p. 915.
- Lemp, H., Lynn, Mass., assignor to General Electric Company. Hydraulic steering-check for vehicles. No. 927,735; July 13; Sp. p. 2144; Gaz. vol. 144; p. 371.
- Lemp, H., Lynn, Mass., assignor, by mesne assignments, to General Electric Company. Kerosene-burner. No. 926,883; July 6; Sp. p. 369; Gaz. vol. 144; p. 59.
- Lemp, H., Lynn, Mass., assignor, by mesne assignments, to General Electric Company. Hydrocarbon-burner. No. 927,416; July 6; Sp. p. 1430; Gaz. vol. 144; p. 237.
- Lemp, H., Lynn, Mass., assignor, by mesne assignments, to General Electric Company. System of fuel regulation. No. 935,916; Oct. 5; Sp. p. 680; Gaz. vol. 147; p. 99.
- Lemp, H., and W. G. Fisher, Lynn, Mass., assignors to General Electric Company. Heating system. No. 919,364; Apr. 27; Sp. p. 5163; Gaz. vol. 141; p. 895.
- Lempierre, L. E., La Roche, France. Valveless internal-combustion engine. No. 932,419; Aug. 24; Sp. p. 5875; Gaz. vol. 145; p. 1003.
- Lempert, L. H., Rochester, N. Y. Combined blind and screen. No. 922,705; May 25; Sp. p. 5373; Gaz. vol. 142; p. 947.
- Lenmyre, J. E., Manchester, N. H. Filling-exhaustion indicating device for looms. No. 909,096; Jan. 5; Sp. p. 1357; Gaz. vol. 138; p. 218.
- Lenahan, D. W., New York, N. Y. Hinge. No. 922,605; May 25; Sp. p. 5169; Gaz. vol. 142; p. 915.
- Lenck, K., Berlin, Germany. Copying-press with pressing-levers arranged symmetrically to one another. No. 916,730; Mar. 30; Sp. p. 6222; Gaz. vol. 140; p. 1114.
- Lend, J., Chicago, Ill. Vibrating, tension, and operating table. No. 937,825; Oct. 26; Sp. p. 4637; Gaz. vol. 147; p. 803.
- Lend, J., assignor of one-half to J. Jamieson, Chicago, Ill. Vehicle-tire. No. 919,603; Apr. 27; Sp. p. 5685; Gaz. vol. 141; p. 977.
- Lender, C. I., Norfolk, Va. Clamp. No. 944,622; Dec. 28; Sp. p. 5593; Gaz. vol. 149; p. 971.
- Lenders, A. W. H., Waukegan, Ill. Steeping apparatus. No. 925,583; June 22; Sp. p. 5201; Gaz. vol. 143; p. 916.
- Lendgren, A., Corning, Iowa. Shoe-protector. No. 912,862; Feb. 16; Sp. p. 3817; Gaz. vol. 139; p. 672.
- Lengel, J., West Philadelphia, Pa. Protecting device for explosion-engines. No. 934,680; Sept. 21; Sp. p. 3443; Gaz. vol. 146; p. 599.
- Lenhard, W. F., Darwin, Minn. Loading device. No. 919,733; Apr. 27; Sp. p. 5944; Gaz. vol. 141; p. 1020.
- Lenihan, W., Middleport, N. Y. Railway-tie. No. 919,442; Apr. 27; Sp. p. 5330; Gaz. vol. 141; p. 921.
- Lennane, J., et al. (See Howe, S. G., assignor.)
- Lennane, W. E., et al. (See Howe, S. G., assignor.)
- Lennon, A., Olivebridge, N. Y. Air and water tight joint for tunnels and similar structures. No. 935,376; Sept. 28; Sp. p. 4829; Gaz. vol. 146; p. 854.
- Lennon, W. S., Tucson, Ariz. Car-coupling. No. 939,720; Nov. 9; Sp. p. 2803; Gaz. vol. 148; p. 463.
- Lennox, A. B. (See Black and Lennox.)
- Lennox, A. H. (See Black and Lennox.)
- Lennox Furnace Co. (See Zuch, J. W., assignor.)
- Lennox, H. (See Black and Lennox.)
- Lennox, T., assignor to McGuire, Cummings Manufacturing Company, Chicago, Ill. Sprinkler-head. No. 920,592; May 4; Sp. p. 1013; Gaz. vol. 142; p. 165.
- Lennox, W., Philadelphia, Pa. Truss. No. 910,004; Jan. 19; Sp. p. 3170; Gaz. vol. 138; p. 526.
- Lennox, W., East Orange, N. J. Roller-skate. No. 942,333; Dec. 7; Sp. p. 644; Gaz. vol. 149; p. 103.
- Lenox, C. T. (See Reece, P. E., assignor.)
- Lensvelt, C. J., Zurich, Switzerland. Meat-slicing machine. No. 944,797; Dec. 28; Sp. p. 5965; Gaz. vol. 149; p. 1028.
- Lentz, H., Berlin, Germany. Gas turbine-engine. No. 911,825; Feb. 9; Sp. p. 1570; Gaz. vol. 139; p. 292.
- Lentz, H., Halensee, near Berlin, Germany. Turbine. No. 921,647; May 11; Sp. p. 3200; Gaz. vol. 142; p. 547.
- Lentz, H., Halensee, near Berlin, Germany, and C. Bellens, Neuilly, France. Valve-gear. No. 921,418; May 11; Sp. p. 2726; Gaz. vol. 142; p. 469.
- Lentz, J. M., assignor to H. Fahnestock, Harrisburg, Pa. Mail and newspaper box. No. 931,696; Aug. 17; Sp. p. 4373; Gaz. vol. 145; p. 743.
- Lenz, C. (See Stephan, H., assignor.)
- Lenz, W. G., Ridgewood Heights, N. Y. Training device for base-ball players. No. 928,674; July 20; Sp. p. 4105; Gaz. vol. 144; p. 715.
- Lenzi, F. B. (See Coo, J. B., assignor.)
- Leola, F., Camperdown, near Sydney, New South Wales, Australia. Piano. No. 930,869; Aug. 10; Sp. p. 2560; Gaz. vol. 145; p. 441.
- Leon, K. O., Stockholm, Sweden. Submarine mine. No. 913,524; Feb. 23; Sp. p. 5148; Gaz. vol. 139; p. 915.
- Le  n, L. Y., San Juan, Porto Rico. Wheel. No. 936,000; Oct. 5; Sp. p. 850; Gaz. vol. 147; p. 128.
- Leon Mann Company. (See Mensch, I., assignor.)
- Leonard, A., Ashland, Wis. Lock. No. 934,193; Sept. 14; Sp. p. 2497; Gaz. vol. 146; p. 411.
- Leonard, A. O., New York, N. Y. Ear-drum. No. 916,566; Mar. 30; Sp. p. 5927; Gaz. vol. 140; p. 1063.
- Leonard, C. G., Savannah, N. Y. Carbureter. No. 941,424; Nov. 30; Sp. p. 6585; Gaz. vol. 148; p. 1117.
- Leonard, C. N. (See Sharpe and Leonard.)
- Leonard, C. N., assignor to W. D. Allison, Indianapolis, Ind. Extensible lamp-bracket. No. 917,467; Apr. 6; Sp. p. 1006; Gaz. vol. 141; p. 175.
- Leonard, C. N., Brockton, assignor to Victoria Self-Lacing Company, Boston, Mass. Holder for the eyeleted edges of boots and shoes. No. 930,485; Aug. 10; Sp. p. 1729; Gaz. vol. 145; p. 312.
- Leonard, D. C., assignor to A. M. Gibbs, Columbia, S. C. Gang-edger. No. 933,569; Sept. 7; Sp. p. 1242; Gaz. vol. 146; p. 183.
- Leonard, G. C. (See Schrader and Leonard.)
- Leonard, G. O., Stamford, N. Y. Container for boiler-scale removers. No. 942,836; Dec. 7; Sp. p. 1659; Gaz. vol. 149; p. 271.
- Leonard, G. P., Elkhart, Ind. Fire-alarm. No. 908,585; Jan. 5; Sp. p. 313; Gaz. vol. 138; p. 53.
- Leonard, G. P., Elkhart, Ind. Device for hanging pictures and like articles. No. 935,797; Oct. 5; Sp. p. 407; Gaz. vol. 147; p. 60.
- Leonard, H. R. (See Whiteman and Leonard.)
- Leonard, H. W., Bronxville, N. Y. Electric-circuit controller. No. 914,355; Mar. 2; Sp. p. 1487; Gaz. vol. 140; p. 231.
- Leonard, H. W., Bronxville, N. Y. Electric-circuit controller. No. 914,356; Mar. 2; Sp. p. 1496; Gaz. vol. 140; p. 231.
- Leonard, H. W., Bronxville, N. Y. Electric-circuit controller. No. 914,357; Mar. 2; Sp. p. 1501; Gaz. vol. 140; p. 232.
- Leonard, H. W., Bronxville, N. Y. Automatic thermo-electric control. No. 915,974; Mar. 23; Sp. p. 4764; Gaz. vol. 140; p. 843.
- Leonard, H. W., Bronxville, N. Y. Electric-circuit controller. No. 929,609; July 27; Sp. p. 6004; Gaz. vol. 144; p. 1051.
- Leonard, H. W., Bronxville, N. Y. Resistance unit. No. 938,671; Nov. 2; Sp. p. 506; Gaz. vol. 148; p. 77.
- Leonard, H. W., Bronxville, N. Y. Electric-circuit controller. No. 941,425; Nov. 30; Sp. p. 6587; Gaz. vol. 148; p. 1117.
- Leonard, J. N., trustee. (See Mitchell, A. W., assignor.)
- Leonard, J. T., Malvern, Ohio. Hanger for screens. No. 935,267; Sept. 28; Sp. p. 4611; Gaz. vol. 146; p. 820.
- Leonard, L. P., St. Cloud, Minn. Fresh-air treatment apparatus. No. 916,567; Mar. 30; Sp. p. 5928; Gaz. vol. 140; p. 1063.
- Leonard, M., Salina, assignor of one-third to J. Giebler & Son, Hays, Kans. Grain-separator. No. 925,002; June 15; Sp. p. 4100; Gaz. vol. 143; p. 697.
- Leonard, M. J., assignor of one-half to R. D. Martin, Long Branch, N. J. Turn-table. No. 928,675; July 20; Sp. p. 4106; Gaz. vol. 144; p. 716.
- Leonard, S. C., Ocheydan, Iowa. Device for unloading wagons. No. 937,616; Oct. 19; Sp. p. 4209; Gaz. vol. 147; p. 717.
- Leonard, T. W., Richmond, Va. Non-refillable bottle. No. 926,580; June 29; Sp. p. 7239; Gaz. vol. 143; p. 1279.
- Leonhardt, M. (See Nakraschofsky and Leonhardt.)
- Leoni, A. M., Highland, assignor to Agricultural Machines Improvement Company, New York, N. Y. Mowing-machine. No. 919,039. Apr. 20; Sp. p. 4320; Gaz. vol. 141; p. 754.

*Alphabetical list of patentees—Continued.*

- Leoni, A. M., Highland, assignor to Agricultural Machines Improvement Company, New York, N. Y. Mowing-machine. No. 919,040; Apr. 20; Sp. p. 4324; Gaz. vol. 141; p. 755.
- Leopold, C., Pittsburg, Pa. Article-holder for hats. No. 933,473; Sept. 7; Sp. p. 1001; Gaz. vol. 146; p. 151.
- Leopold, G. O., (See Fegley and Leopold.)
- Leopold, G. O., assignor to North Bros. M'fg Co., Philadelphia, Pa. Ball-bearing. No. 908,872; Jan. 5; Sp. p. 912; Gaz. vol. 138; p. 145.
- Leopold, G. O., assignor to North Bros. M'fg Co., Philadelphia, Pa. Breast-drill. No. 917,319; Apr. 6; Sp. p. 746; Gaz. vol. 141; p. 127.
- Leopold, G. O., assignor to North Bros. M'fg Co., Philadelphia, Pa. Gearing. No. 939,042; Nov. 2; Sp. p. 1275; Gaz. vol. 148; p. 205.
- Leow, A. C., Fort Clinton, Ohio. Cofferdam. No. 924,362; June 8; Sp. p. 2760; Gaz. vol. 143; p. 450.
- Lepage, C. E., Chicago, Ill. Hose-coupling. No. 909,003; Jan. 5; Sp. p. 1176; Gaz. vol. 138; p. 187.
- Lepetit, Dollfus & Gansser. (See Lepetit, R., assignor.)
- Lepetit, R., assignor to Lepetit, Dollfus & Gansser, Milan, Italy. Ethoxyphenylamidomethane sulfonate. No. 934,554; Sept. 21; Sp. p. 5180; Gaz. vol. 146; p. 555.
- Lepley, D. S., Aurora, Kans. Harness appliance. No. 923,434; June 1; Sp. p. 724; Gaz. vol. 143; p. 107.
- Leppert, H. E., New Britain, assignor to Hart Manufacturing Company, Hartford, Conn. Binding-post. No. 938,672; Nov. 2; Sp. p. 508; Gaz. vol. 148; p. 77.
- Leppert, H. E., New Britain, assignor to Hart Manufacturing Company, Hartford, Conn. Binding-post. No. 940,335; Nov. 16; Sp. p. 4198; Gaz. vol. 148; p. 707.
- Leppert, W., Junction City, Ore. Extension-top for vehicles. No. 914,961; Mar. 9; Sp. p. 2708; Gaz. vol. 140; p. 456.
- Lerch, E. A. (See Beale and Moore, assignors.)
- Lerch, E. A., *et al.* (See Moore, D. P., assignor.)
- Lerch, S. F., Canton, Ohio. Hay-carrier. No. 938,775; Nov. 2; Sp. p. 695; Gaz. vol. 148; p. 112.
- Les Produits Chimiques de Croissy (J. Basler & Co.). (See Tixier, A., assignor.)
- Lesan, S. A., assignor of one-third to S. W. Bonner and one-third to C. C. Calbraith, Seymour, Iowa. Punch. No. 934,194; Sept. 14; Sp. p. 2502; Gaz. vol. 146; p. 412.
- Leschbraht, E., Philadelphia, Pa. Sound-reproducing record. No. 908,683; Jan. 5; Sp. p. 539; Gaz. vol. 138; p. 84.
- Leschen, H. (See Brazelle, B., assignor.)
- Lesh, J. H., Cleveland, Ohio. Work-support. No. 921,419; May 11; Sp. p. 2727; Gaz. vol. 142; p. 469.
- Lesley, R. W., Haverford, and H. S. Spackman, Ardmore, Pa., assignors to Pine Street Patents Company. Apparatus for making cement. No. 929,144; July 27; Sp. p. 5059; Gaz. vol. 144; p. 899.
- Lesley, R. W., Haverford, and H. S. Spackman, Ardmore, Pa., assignors to Pine Street Patents Company. Making cement. No. 929,145; July 27; Sp. p. 5062; Gaz. vol. 144; p. 899.
- Leslie, A. S., Sapperton, British Columbia, Canada. Stringed musical instrument. No. 922,921; May 25; Sp. p. 5831; Gaz. vol. 142; p. 1017.
- Leslie, H., assignor to E. M. Kilby, Birmingham, Ala. Automatic car-coupling. No. 943,116; Dec. 14; Sp. p. 2354; Gaz. vol. 149; p. 599.
- Leslie, H. C., Duquesne, Pa. Interior decoration. No. 920,593; May 4; Sp. p. 1015; Gaz. vol. 142; p. 165.
- Leslie, J. H. and J. W., Chicago, Ill. Show-case. No. 927,060; July 6; Sp. p. 761; Gaz. vol. 144; p. 121.
- Leslie, J. W. (See Leslie, J. H. and J. W.)
- Leslie, J. W., Wakefield, Mass. Ball-bearing curtain-ring. No. 912,476; Feb. 16; Sp. p. 2993; Gaz. vol. 139; p. 541.
- Leslie, J. W., Wakefield, assignor to Leslie Safety Razor Company, Boston, Mass. Safety-razor. No. 908,470; Jan. 5; Sp. p. 72; Gaz. vol. 138; p. 14.
- Leslie, J. W., Wakefield, assignor to Leslie Safety Razor Company, Boston, Mass. Device for sharpening razor-blades. No. 909,097; Jan. 5; Sp. p. 1361; Gaz. vol. 138; p. 218.
- Leslie, J. W., Wakefield, assignor to Leslie Safety Razor Company, Boston, Mass. Apparatus for sharpening blades. No. 909,098; Jan. 5; Sp. p. 1365; Gaz. vol. 138; p. 219.
- Leslie Safety Razor Company. (See Leslie, J. W., assignor.)
- Lesser, F., Waukesha, Wis., assignor, by mesne assignments, to Stevens Manufacturing Company. Potato-digger. No. 935,209; Sept. 28; Sp. p. 4495; Gaz. vol. 146; p. 800.
- Lester-Adams Tobacco Press Company. (See Hammond, C. H., assignor.)
- Lester, H. B., assignor to Davis Sewing Machine Company, Dayton, Ohio. Automatic screw-machine. No. 916,461; Mar. 30; Sp. p. 5696; Gaz. vol. 140; p. 1029.
- Lester, H. B., Hartford, Conn., assignor to Davis Sewing Machine Company, Dayton, Ohio. Automatic screw-machine. No. 939,604; Nov. 9; Sp. p. 2568; Gaz. vol. 148; p. 422.
- Lester, I., Tuscola, Ill. Gate. No. 909,194; Jan. 12; Sp. p. 1576; Gaz. vol. 138; p. 284.
- Lester, J. A., Interlaken, N. Y. Cleansing compound. No. 941,155; Nov. 23; Sp. p. 5984; Gaz. vol. 148; p. 1006.
- Lester, J. F. (See Baldwin and Lester.)
- Lester, J. S., assignor of one-third to B. F. Stockton, Atlanta, Ga. Toy. No. 944,623; Dec. 28; Sp. p. 5595; Gaz. vol. 149; p. 971.
- Lester, W. J. (See Pope and Lester.)
- Leszczynsky, A. and S., Shenandoah, Pa. Lock. No. 944,883; Dec. 28; Sp. p. 6153; Gaz. vol. 149; p. 1058.
- Leszczynsky, S. (See Leszczynsky, A. and S.)
- Letner, I. W., Grants Pass, Ore. Mortising-plane. No. 914,962; Mar. 9; Sp. p. 2710; Gaz. vol. 140; p. 456.
- Letnerman, C. H., Pittsburg, Pa. Support for clothes-wringers. No. 944,884; Dec. 28; Sp. p. 6155; Gaz. vol. 149; p. 1059.
- Lettré, F. H., Attleboro Falls, Mass. Machine for applying box-fasteners. No. 934,738; Sept. 21; Sp. p. 3546; Gaz. vol. 146; p. 618.
- Letts, A., *et al.* (See Smith, G. A., assignor.)
- Letts, J. S., assignor of one-half to W. G. Clark, Dickinson, N. D. Aerial navigation. No. 937,250; Oct. 19; Sp. p. 3446; Gaz. vol. 147; p. 595.
- Leurent, E., Lille, France. Woolen. No. 936,461; Oct. 12; Sp. p. 1821; Gaz. vol. 147; p. 303.
- Leuthesser, F. W., assignor to Monash-Younger Company, Chicago, Ill. Air-valve for radiators. No. 944,338; Dec. 28; Sp. p. 4935; Gaz. vol. 149; p. 870.
- Lev, B., assignor to Eclipse Railway Supply Company, Cleveland, Ohio. Life-guard. No. 911,053; Feb. 2; Sp. p. 60; Gaz. vol. 139; p. 12.
- Levalley, C. W., Milwaukee, Wis. Shaft-hanger. No. 908,684; Jan. 5; Sp. p. 540; Gaz. vol. 138; p. 84.
- Levalley, C. W., Milwaukee, Wis. Shaft-hanger. No. 910,296; Jan. 19; Sp. p. 3816; Gaz. vol. 138; p. 687.
- Levalley, C. W., Milwaukee, Wis. Conveyor. No. 936,917; Oct. 12; Sp. p. 2738; Gaz. vol. 147; p. 457.
- Levalley, C. W., Milwaukee, Wis. Support for belt-shifters. No. 942,837; Dec. 7; Sp. p. 1661; Gaz. vol. 149; p. 272.
- Leve, G. (See Cohen, L. P., assignor.)
- Leve, R. E., New York, N. Y. Plural-arc lamp. No. 916,462; Mar. 30; Sp. p. 5704; Gaz. vol. 140; p. 1029.
- Levedahl, A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Bicycle-frame. No. 913,961; Mar. 2; Sp. p. 636; Gaz. vol. 140; p. 100.
- Levedahl, A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Throttle-valve for pneumatic drills. No. 935,268; Sept. 28; Sp. p. 4612; Gaz. vol. 146; p. 820.
- Levedahl, A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Set-screw. No. 942,506; Dec. 7; Sp. p. 1006; Gaz. vol. 149; p. 162.
- Léveque, B. T., assignor to Reece Buttonhole Machine Company, Boston, Mass. Attaching buttons to fabric. No. 918,873; Apr. 20; Sp. p. 3984; Gaz. vol. 141; p. 700.
- Léveque, B. T., assignor to Reece Button Hole Machine Company, Boston, Mass. Thread-controlling mechanism for button-sewing machines. No. 922,786; May 25; Sp. p. 5338; Gaz. vol. 142; p. 973.
- Leverentz, H. W., Chicago, Ill. Socket for wagon-stakes. No. 929,315; July 27; Sp. p. 5444; Gaz. vol. 144; p. 957.
- Leverich, R. G., Berrien Springs, Mich. Concrete-mixing machine. No. 941,998; Nov. 30; Sp. p. 7771; Gaz. vol. 148; p. 1310.
- Levering, A. M., Philadelphia, Pa. Trolley-wheel. No. 935,852; Oct. 5; Sp. p. 539; Gaz. vol. 147; p. 77.
- Levering, J. L., Philadelphia, Pa. Gas-stove and hot-water heater. No. 909,624; Jan. 12; Sp. p. 2407; Gaz. vol. 138; p. 426.
- Leverton, G. E., Denver, Colo. Hinge-hanger. No. 942,784; Dec. 7; Sp. p. 1552; Gaz. vol. 149; p. 255.
- Levett, F. M., New York, N. Y. Buffing or polishing wheel. No. 911,889; Feb. 9; Sp. p. 1690; Gaz. vol. 139; p. 310.
- Levett, F. M., New York, N. Y., assignor to Levett Manufacturing Company, Matawan, N. J. Device for applying polishing material to buffing-wheels. No. 914,433; Mar. 9; Sp. p. 1656; Gaz. vol. 140; p. 283.
- Levett Manufacturing Company. (See Levett, F. M., assignor.)
- Levey, D. L., Coronado Beach, Cal. Rodent-exterminator. No. 925,584; June 22; Sp. p. 5206; Gaz. vol. 143; p. 916.
- Levey, J., assignor to J. Williamson, Chicago, Ill. Gas-purifying apparatus. No. 912,694; Feb. 16; Sp. p. 3458; Gaz. vol. 139; p. 617.
- Levey, T. J., assignor of one-third to T. R. Nalley and one-third to R. Edeline, Washington, D. C. Horseshoe. No. 930,550; Aug. 10; Sp. p. 1909; Gaz. vol. 145; p. 336.
- Levey, T. J., Washington, D. C., assignor to International Cap and Sealing Machine Company. Bottle-capping machine. (Reissue.) No. 13,065; Dec. 28; Sp. p. 6416; Gaz. vol. 149; p. 1101.
- Levey, W. H., Woodstock, Ill. Game apparatus. No. 915,450; Mar. 16; Sp. p. 3702; Gaz. vol. 140; p. 643.



*Alphabetical list of patentees—Continued.*

- Levi, S., Albany, assignor to Mohawk Brush Co., Cohoes, N. Y. Brush-filling machine. No. 919,734; Apr. 27; Sp. p. 5947; Gaz. vol. 141; p. 1021.
- Levin, E., New York, N. Y. Garment-form. No. 941,022; Nov. 23; Sp. p. 5698; Gaz. vol. 148; p. 962.
- Levin, H., New York, N. Y. Child's cradle. No. 927,559; July 13; Sp. p. 1750; Gaz. vol. 144; p. 313.
- Levin, I., Brooklyn, N. Y. Bust-form. No. 934,922; Sept. 21; Sp. p. 3914; Gaz. vol. 146; p. 679.
- Levin, M. (See Levin, W., assignor.)
- Levin, M. J., Providence, R. I. Apparatus for dispensing gas-impregnated liquids. No. 936,462; Oct. 12; Sp. p. 1822; Gaz. vol. 147; p. 303.
- Levin, N. D., assignor to Goodman Manufacturing Company, Chicago, Ill. Rack-rail and traction locomotive. No. 909,430; Jan. 12; Sp. p. 2019; Gaz. vol. 138; p. 359.
- Levin, N. D., assignor to Goodman Manufacturing Company, Chicago, Ill. Gear-wheel. No. 928,676; July 20; Sp. p. 4110; Gaz. vol. 144; p. 716.
- Levin, S., New York, N. Y. Trousers-supporter. No. 936,787; Oct. 12; Sp. p. 2483; Gaz. vol. 147; p. 414.
- Levin, W., assignor to M. Levin, Redlands, Cal. Orange-clipper. No. 912,248; Feb. 9; Sp. p. 2476; Gaz. vol. 139; p. 427.
- Levine, E., *et al.* (See Greenberg, M., assignor.)
- Levine, E. J., New York, N. Y. Puzzle. No. 932,147; Aug. 24; Sp. p. 5364; Gaz. vol. 145; p. 914.
- Leving, T. H., New York, N. Y. Music-leaf turner. No. 919,367; Apr. 27; Sp. p. 5173; Gaz. vol. 141; p. 896.
- Levinsohn, L. N., Richmond Hill, N. Y. Safety-razor. No. 931,778; Aug. 24; Sp. p. 4566; Gaz. vol. 145; p. 792.
- Levinson, H., *et al.* (See Burkhard, H., assignor.)
- Levinson, I., New York, N. Y. Electroliter-bracket. No. 922,490; May 25; Sp. p. 4920; Gaz. vol. 142; p. 876.
- Levvy, L. S. (See Dunbar, C. A., assignor.)
- Levy, A., Paris, France. Electric dissociation of metals by the wet method. No. 923,864; June 8; Sp. p. 1718; Gaz. vol. 143; p. 286.
- Levy, A. H. V. (See Dreyfus and Levy.)
- Levy, C. E. (See Thoens, B., assignor.)
- Levy, C. M., New York, N. Y. Finger-ring. No. 912,139; Feb. 9; Sp. p. 2272; Gaz. vol. 139; p. 393.
- Levy, H. G., and G. N. Blanchard, San Francisco, Cal.; said Blanchard assignor to said Levy. Electric water-heater. No. 939,605; Nov. 9; Sp. p. 2573; Gaz. vol. 148; p. 422.
- Levy, J. (See Beckman, A. G., assignor.)
- Levy, J., assignor to Lee Improvement Company, New York, N. Y. Strainer. No. 926,704; June 29; Sp. p. 7489; Gaz. vol. 143; p. 1320.
- Levy, J., and E. L. Young, assignors to Lee Improvement Company, New York, N. Y. Fresh-air inlet. No. 926,705; June 29; Sp. p. 7490; Gaz. vol. 143; p. 1321.
- Levy, L., Seattle, Wash. Envelop. No. 912,140; Feb. 9; Sp. p. 2273; Gaz. vol. 139; p. 393.
- Levy, L. E. and M., assignors to Graphic Arts Co., Philadelphia, Pa. Etching-machine. No. 920,766; May 4; Sp. p. 1350; Gaz. vol. 142; p. 220.
- Levy, M. (See Levy, L. E. and M.)
- Lewers, R., New Hartford, N. Y. Adjustable hinged ceiling-plate. No. 916,568; Mar. 30; Sp. p. 5930; Gaz. vol. 140; p. 1064.
- Lewis, A., New York, N. Y. Electric attachment for alarm-clocks. No. 919,368; Apr. 27; Sp. p. 5175; Gaz. vol. 141; p. 897.
- Lewis, A., New York, N. Y. Manifolding apparatus. No. 943,195; Dec. 14; Sp. p. 2502; Gaz. vol. 149; p. 424.
- Lewis, A. B., Charlotte Court House, Va. Tobacco-stick holder. No. 925,585; June 22; Sp. p. 5208; Gaz. vol. 143; p. 916.
- Lewis, A. L. (See Lewis, T. S. and A. L.)
- Lewis, A. S. (See Knipe, O. C., assignor.)
- Lewis, A. W., Wendell, Minn. Corn-planter. No. 910,297; Jan. 19; Sp. p. 3817; Gaz. vol. 138; p. 687.
- Lewis, B., Schenectady, N. Y., assignor to General Electric Company. Motorman's valve. No. 919,443; Apr. 27; Sp. p. 5332; Gaz. vol. 141; p. 921.
- Lewis, C., *et al.* (See Miller, R. A., assignor.)
- Lewis, C. A., assignor of one-half to W. A. Diboll, Denver, Colo. Pneumatic tire for automobiles and other vehicles. No. 933,715; Sept. 7; Sp. p. 1541; Gaz. vol. 146; p. 233.
- Lewis, C. E. (See Sauerwein, Zacharias, and Lewis.)
- Lewis, C. E., J. M. Thomas, and S. C. Jones, Boston, Mass. Noise-deadening means for railways. No. 912,141; Feb. 9; Sp. p. 2274; Gaz. vol. 139; p. 394.
- Lewis, C. H., Chillicothe, Ohio. Car-door lock. No. 922,168; May 18; Sp. p. 4248; Gaz. vol. 142; p. 743.
- Lewis Company. (See Sauerwein, Zacharias, and Lewis, assignors.)
- Lewis, D. L., Elba, N. Y. Garment-fastener. No. 926,500; June 29; Sp. p. 7096; Gaz. vol. 143; p. 1252.
- Lewis, D. M. (See Turner and Lewis.)
- Lewis, E. A., Mount Vernon, N. Y. Window. No. 908,471; Jan. 5; Sp. p. 76; Gaz. vol. 138; p. 15.
- Lewis, E. C., *et al.* (See Smith, F. P., assignor.)
- Lewis, E. D. (See Aliber, M., assignor.)
- Lewis, E. M., Moundsville, W. Va. Display box and tray. No. 939,721; Nov. 9; Sp. p. 2806; Gaz. vol. 148; p. 464.
- Lewis, E. V., Fresno, Cal. Swing. No. 941,081; Nov. 23; Sp. p. 5816; Gaz. vol. 148; p. 981.
- Lewis, E. Z., Franklin, Pa. Manifold-printing device. No. 932,148; Aug. 24; Sp. p. 5365; Gaz. vol. 145; p. 914.
- Lewis, E. Z., Chicago, Ill. Multiform billing-sheet. No. 932,713; Aug. 31; Sp. p. 6536; Gaz. vol. 145; p. 1125.
- Lewis, E. Z., Chicago, Ill. Manifolding-platen for type-writing machines. No. 937,374; Oct. 19; Sp. p. 3694; Gaz. vol. 147; p. 635.
- Lewis, E. Z., Chicago, Ill. Attachment for type-writers. No. 940,336; Nov. 16; Sp. p. 4199; Gaz. vol. 148; p. 708.
- Lewis, E. Z., assignor to General Manifold and Printing Company, Franklin, Pa. Manifolding sales-check device. No. 929,959; Aug. 3; Sp. p. 714; Gaz. vol. 145; p. 114.
- Lewis, F. A., Wichita, Kans. Water trap or strainer. No. 916,340; Mar. 23; Sp. p. 5426; Gaz. vol. 140; p. 964.
- Lewis, F. F., assignor to Lewis Knitting Company, Janesville, Wis. Bifurcated garment. No. 913,741; Mar. 2; Sp. p. 136; Gaz. vol. 140; p. 23.
- Lewis, F. F., assignor to Lewis Knitting Company, Janesville, Wis. Underwear. No. 935,158; Sept. 28; Sp. p. 4392; Gaz. vol. 146; p. 784.
- Lewis, F. F., assignor to Lewis Knitting Company, Janesville, Wis. Bifurcated garment. No. 935,159; Sept. 28; Sp. p. 4393; Gaz. vol. 146; p. 784.
- Lewis, F. G., Almira, assignor of one-half to E. Coburn and R. H. Schreiber, Lind, Wash. Draft-equalizer. No. 915,614; Mar. 16; Sp. p. 4034; Gaz. vol. 140; p. 697.
- Lewis, G., Uniontown, Pa. Rail-joint. No. 915,196; Mar. 16; Sp. p. 3208; Gaz. vol. 140; p. 560.
- Lewis, G. A., Troy, N. Y., assignor of one-half to Edward Manogue Co. Ventilator. No. 940,036; Nov. 16; Sp. p. 3484; Gaz. vol. 148; p. 602.
- Lewis, G. C., *et al.* (See Callahan, D. H., assignor.)
- Lewis, G. J., St. Paul, Minn. Perfumed pin-cushion. No. 920,968; May 11; Sp. p. 1787; Gaz. vol. 142; p. 317.
- Lewis, G. S., assignor to J. Stevens Arms & Tool Company, Chicopee Falls, Mass. Repeating firearm. No. 935,314; Sept. 28; Sp. p. 4705; Gaz. vol. 146; p. 835.
- Lewis, G. S., assignor to J. Stevens Arms & Tool Company, Chicopee Falls, Mass. Firearm. No. 939,142; Nov. 2; Sp. p. 1470; Gaz. vol. 148; p. 239.
- Lewis, G. T., assignor to F. M. Williams and M. Kiser, Seattle, Wash. Stringed musical instrument. No. 921,127; May 11; Sp. p. 2108; Gaz. vol. 142; p. 371.
- Lewis, H., Rock Island, Ill. Brake-shoe. No. 909,431; Jan. 12; Sp. p. 2021; Gaz. vol. 138; p. 360.
- Lewis, H. D. (See White, F. G., assignor.)
- Lewis, H. E. (See Bergeron, M., assignor.)
- Lewis, H. J., assignor to J. H. Dale, New York, N. Y. Cluster lamp-socket. No. 936,463; Oct. 12; Sp. p. 1826; Gaz. vol. 147; p. 303.
- Lewis, H. W., Tyrone, Pa. Rail-joint. No. 930,870; Aug. 10; Sp. p. 2561; Gaz. vol. 145; p. 441.
- Lewis, I. N., U. S. Army. Gas-propelled torpedo. No. 933,086; Sept. 7; Sp. p. 99; Gaz. vol. 146; p. 17.
- Lewis, I. N., U. S. Army, assignor to A. W. Erdman, Waterbury, Conn. Azimuth-indicator. No. 943,751; Dec. 21; Sp. p. 3709; Gaz. vol. 149; p. 645.
- Lewis, J. C. (See Boegel and Lewis.)
- Lewis, J. E., Steelton, Pa. Railway-track frog. No. 911,054; Feb. 2; Sp. p. 63; Gaz. vol. 139; p. 12.
- Lewis, J. E., assignor to Bush Manufacturing Company, Hartford, Conn. Radiator for automobiles. No. 940,976; Nov. 23; Sp. p. 5587; Gaz. vol. 148; p. 946.
- Lewis, J. F. (See Overman, F. T., assignor.)
- Lewis, J. L., Pittsburg, Pa. Casting rolls. No. 933,996; Sept. 14; Sp. p. 2098; Gaz. vol. 146; p. 346.
- Lewis, J. L., Pittsburg, Pa. Mold for casting rolls. No. 934,410; Sept. 14; Sp. p. 2903; Gaz. vol. 146; p. 485.
- Lewis, J. S. (See Farrell and Lewis.)
- Lewis, J. W. (See Press and Lewis.)
- Lewis, J. W., A. Tenhagen, and C. S. Reed, Cleveland, Ohio; said Lewis assignor to said Tenhagen and Reed. Match-plate for sand-molding. No. 937,704; Oct. 19; Sp. p. 4387; Gaz. vol. 147; p. 745.
- Lewis Knitting Company. (See Lewis, F. F., assignor.)

*Alphabetical list of patentees—Continued.*

- Lewis, L. C., assignor to Monarch Specialty Manufacturing Company, Columbus, Ohio. Water-heater. No. 910,138; Jan. 19; Sp. p. 3431; Gaz. vol. 138; p. 628.
- Lewis, L. C., assignor to Eclipse Manufacturing Company, Columbus, Ohio. Churn. No. 913,742; Mar. 2; Sp. p. 137; Gaz. vol. 140; p. 24.
- Lewis, L. C., assignor to G. H. Marting, Columbus, Ohio. Churn. No. 921,851; May 18; Sp. p. 3640; Gaz. vol. 142; p. 641.
- Lewis, L. C., assignor to G. H. Marting, Columbus, Ohio. Water-motor. No. 927,560; July 13; Sp. p. 1751; Gaz. vol. 144; p. 313.
- Lewis, L. L., Tulsa, Okla. Rotary engine. No. 912,315; Feb. 16; Sp. p. 2658; Gaz. vol. 139; p. 488.
- Lewis, L. P., Centralia, Mo. Marking attachment for corn-planters. No. 938,389; Oct. 26; Sp. p. 5868; Gaz. vol. 147; p. 995.
- Lewis, M. E. (See Babcock, G., assignor.)
- Lewis, O., Whitesboro, Tex. Latch. No. 921,852; May 18; Sp. p. 3641; Gaz. vol. 142; p. 641.
- Lewis, O., Galivants Ferry, S. C. Fertilizer-distributor. No. 924,477; June 8; Sp. p. 2967; Gaz. vol. 143; p. 486.
- Lewis, O. H., Detroit, Mich. Guy-anchor. No. 930,486; Aug. 10; Sp. p. 1733; Gaz. vol. 145; p. 313.
- Lewis, P., Mankato, Minn. Hydraulic air-pump. No. 923,053; May 25; Sp. p. 6096; Gaz. vol. 142; p. 1059.
- Lewis, R., *et al.* (See Kinder, G. A., assignor.)
- Lewis, R. C., Muncie, Ind., assignor of three-fourths to C. A. Ulsh, Risingsun, Ohio. Hydrocarbon-engine. No. 911,133; Feb. 2; Sp. p. 230; Gaz. vol. 139; p. 41.
- Lewis, R. D., Lloyd, Ohio. Adjustable shade and curtain bracket. No. 920,969; May 11; Sp. p. 1788; Gaz. vol. 142; p. 317.
- Lewis, R. E. (See Keck and Lewis.)
- Lewis, R. H., assignor of one-half to H. A. Thayer, Providence, R. I. Bracelet. No. 918,175; Apr. 13; Sp. p. 2457; Gaz. vol. 141; p. 440.
- Lewis, S. A., *et al.* (See Callahan, D. H., assignor.)
- Lewis, S. D., trustee. (See Lear, O. J., assignor.)
- Lewis, S. T., Swissvale, Pa. Chuck. No. 938,390; Oct. 26; Sp. p. 5871; Gaz. vol. 147; p. 996.
- Lewis, S. T., Milwaukee, Wis., assignor of two-thirds to R. P. Davenport and E. C. Rockwell, Chicago, Ill. Variable-speed gearing. No. 909,099; Jan. 5; Sp. p. 1368; Gaz. vol. 138; p. 219.
- Lewis, T. H., and H. C. Graves, Stillwater, Okla. Washing-machine. No. 940,882; Nov. 23; Sp. p. 5399; Gaz. vol. 148; p. 915.
- Lewis, T. S. and A. L., Memphis, Tenn. Straw-holder. No. 926,581; June 29; Sp. p. 7240; Gaz. vol. 143; p. 1280.
- Lewis, W. (See Taylor and Lewis.)
- Lewis, W., Allegheny, Pa. Funnel. No. 928,138; July 13; Sp. p. 2958; Gaz. vol. 144; p. 505.
- Lewis, W., Philadelphia, Pa., assignor to Tabor Manufacturing Company, Camden, N. J. Jarring-machine. (Reissue.) No. 13,012; Aug. 17; Sp. p. 4419; Gaz. vol. 145; p. 750.
- Lewis, W., Philadelphia, Pa., assignor to Tabor Manufacturing Company, Camden, N. J. Molding-machine. No. 941,999; Nov. 30; Sp. p. 7773; Gaz. vol. 148; p. 1310.
- Lewis, W. B., Providence, R. I. Bleaching apparatus. No. 921,853; May 18; Sp. p. 3643; Gaz. vol. 142; p. 642.
- Lewis, W. B., and J. R. Mansfield, assignors to Whiting Foundry Equipment Company, Harvey, Ill. Truck. No. 922,005; May 18; Sp. p. 3950; Gaz. vol. 142; p. 691.
- Lewis, W. D. (See Thomas and Lewis.)
- Lewis, W. F., Lynn, Mass. Sewing-machine needle. No. 937,310; Oct. 19; Sp. p. 3555; Gaz. vol. 147; p. 615.
- Lewis, W. H., *et al.* (See Hopkirk, J., assignor.)
- Lewis, W. P., Wauneta, Neb. Wrench. No. 940,977; Nov. 23; Sp. p. 5588; Gaz. vol. 148; p. 946.
- Lewis, W. R., Plainfield, N. J. Door-hanger. No. 928,137; July 13; Sp. p. 2957; Gaz. vol. 144; p. 505.
- Lewis, W. S., assignor of one-fourth to W. W. T. Berrill and one-fourth to F. Lahaye, San Francisco, Cal. Power-transmission and direction-changing device. No. 934,821; Sept. 21; Sp. p. 3718; Gaz. vol. 146; p. 645.
- Lewis, W. T., Columbus, Ohio. Fluid-pressure engine. No. 916,463; Mar. 30; Sp. p. 5708; Gaz. vol. 140; p. 1030.
- Lewis, W. W., Cohasset, Mass. Combination flower-pot. No. 918,563; Apr. 20; Sp. p. 3266; Gaz. vol. 141; p. 595.
- Lewis, W. Y. (See Adkins and Lewis.)
- Lewisson, L. (See Clauss and Lewisson.)
- Lewsen, N., Portland, Me. Skirt-gage. No. 944,885; Dec. 28; Sp. p. 6156; Gaz. vol. 149; p. 1059.
- Ley, H. W., Boulder, Colo., assignor of one-fourth to J. T. Stenner, Mare Island, Cal. Air-brake system. No. 909,809; Jan. 12; Sp. p. 2766; Gaz. vol. 138; p. 488.
- Ley, L. N. (See Schwing, C. T., assignor.)
- Leydort, J. C., Perrysburg, Ohio. Means for propelling vehicles. No. 942,000; Nov. 30; Sp. p. 7783; Gaz. vol. 148; p. 1310.
- Leyner, C. P., Boston, Mass., assignor to J. G. Leyner, Denver, Colo. Vaginal syringe. No. 937,311; Oct. 19; Sp. p. 3556; Gaz. vol. 147; p. 615.
- Leyner, C. P., Boston, Mass., assignor to J. G. Leyner, Denver, Colo. Syringe or the like. No. 939,520; Nov. 9; Sp. p. 2371; Gaz. vol. 148; p. 393.
- Leyner, J. G. (See Leyner, C. P., assignor.)
- Leyner, J. G., Denver, Colo. Rock-drilling engine. No. 914,737; Mar. 9; Sp. p. 2287; Gaz. vol. 140; p. 383.
- Leyner, J. G., Denver, Colo. Fluid-operated drill-sharpener. No. 917,777; Apr. 13; Sp. p. 1635; Gaz. vol. 141; p. 304.
- Leyner, J. G., Denver, Colo. Fluid-controlled drill-bit swaging and sharpening machine. No. 921,420; May 11; Sp. p. 2730; Gaz. vol. 142; p. 470.
- Leyner, J. G., Denver, Colo. Fluid-controlled drill-bit swaging and sharpening machine. No. 931,779; Aug. 24; Sp. p. 4567; Gaz. vol. 145; p. 793.
- Leyner, J. G., Denver, Colo. Combined air compressor and intercooler. No. 938,004; Oct. 26; Sp. p. 5009; Gaz. vol. 147; p. 863.
- Lezinsky, G., New York, N. Y. Explosive compound and producing the same. No. 909,915; Jan. 19; Sp. p. 2994; Gaz. vol. 138; p. 555.
- Libak, P. (See Olson and Libak.)
- Libbey Glass Company. (See Wilbur, W. C., assignor.)
- Libbey, A. D. T., assignor to Dean Electric Company, Elyria, Ohio. Electrical signaling system. No. 922,006; May 18; Sp. p. 3952; Gaz. vol. 142; p. 691.
- Libbey, C. L., Indianapolis, Ind. Turret-lathe. No. 938,156; Oct. 26; Sp. p. 5360; Gaz. vol. 147; p. 915.
- Libbey, C. L., Indianapolis, Ind. Feed for lathes. No. 939,043; Nov. 2; Sp. p. 1277; Gaz. vol. 148; p. 205.
- Libbey, C. L., Indianapolis, Ind. Tool-post for lathes. No. 939,722; Nov. 9; Sp. p. 2807; Gaz. vol. 148; p. 464.
- Libbey, C. L., assignor to Gisholt Machine Company, Madison, Wis. Automatic feed-trip mechanism. No. 917,320; Apr. 6; Sp. p. 749; Gaz. vol. 141; p. 127.
- Libbey, C. R., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Automatic traveling take-up for cable conveying apparatus. No. 944,565; Dec. 28; Sp. p. 5477; Gaz. vol. 149; p. 950.
- Libbey, F. A. (See Young and Libbey.)
- Libbey, G. W., and J. S. Scott, Lowell, Mass. High-speed attachment for lathes. No. 917,468; Apr. 6; Sp. p. 1008; Gaz. vol. 141; p. 176.
- Libbey, P. A., assignor to G. R. Paige and H. N. Johnson, Claremont, N. H. Headlight attachment for horses. No. 911,733; Feb. 9; Sp. p. 1409; Gaz. vol. 139; p. 262.
- Libbey, S. H., East Orange, N. J., assignor to Sprague Electric Company. Electric carrier system. No. 910,931; Jan. 26; Sp. p. 5096; Gaz. vol. 138; p. 918.
- Libbey, S. H., East Orange, N. J., assignor to Sprague Electric Company. Automatic carrier. No. 926,884; July 6; Sp. p. 373; Gaz. vol. 144; p. 60.
- Libbey, S. H., East Orange, N. J., assignor to Sprague Electric Company. Hoist. No. 927,417; July 6; Sp. p. 1434; Gaz. vol. 144; p. 235.
- Libby, W. B., Vandalia, Mo. Well or cistern top. No. 912,477; Feb. 16; Sp. p. 2996; Gaz. vol. 139; p. 541.
- Libert, A. (See Roberts and Libert.)
- Liberty Cartridge Company. (See Funk, E. M., assignor.)
- Liberty, E. W., Chicago, and W. J. McElroy, Downers Grove, Ill. Street-sweeper. No. 935,798; Oct. 5; Sp. p. 408; Gaz. vol. 147; p. 60.
- Liberty, J. C., assignor of one-half to T. F. Lynn, Easthampton, Mass. Bobbin-winding machine. No. 918,454; Apr. 13; Sp. p. 3021; Gaz. vol. 141; p. 531.
- Liberty Manufacturing Company. (See Symons, J. V., assignor.)
- Liberty Trust Company, trustee. (See Henrick, W. A. E., assignor.)
- Lichtblau, E., Vienna, Austria-Hungary. Mouthpiece for pipes and cigar and cigarette holders. No. 922,007; May 18; Sp. p. 3957; Gaz. vol. 142; p. 691.
- Lichtendort, A. C., Brooklyn, N. Y. Match-box. No. 920,071; Apr. 27; Sp. p. 6653; Gaz. vol. 141; p. 1132.
- Lichtenstein, C. S., New York, N. Y. Hook and eye. No. 934,195; Sept. 14; Sp. p. 2504; Gaz. vol. 146; p. 412.
- Lichtenstein, I. (See Keeser and Lichtenstein.)
- Lichtfuss, A., Oshkosh, Wis. Automatic drawbridge-gate. No. 931,439; Aug. 17; Sp. p. 3844; Gaz. vol. 145; p. 662.
- Liddell, A. B., New York, N. Y. Press-bed. No. 926,341; June 29; Sp. p. 6819; Gaz. vol. 143; p. 1200.
- Liddell, W., New York, N. Y., assignor, by mesne assignments, to Simplex Bag Company of Long Island City. Bag-machine. No. 943,427; Dec. 14; Sp. p. 2979; Gaz. vol. 149; p. 503.
- Liddell, W., New York, N. Y., assignor, by mesne assignments, to Simplex Bag Company of Long Island City. Paper-bag machine. No. 943,423; Dec. 14; Sp. p. 2983; Gaz. vol. 149; p. 503.



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- Liddell, W. S., Charlotte, N. C. Cotton-tramper. No. 924,363; June 8; Sp. p. 2762; Gaz. vol. 143; p. 450.
- Liddle, H. E., assignor to Independent Manufacturing Company, Muskegon, Mich. Dating-stamp. No. 937,251; Oct. 19; Sp. p. 3450; Gaz. vol. 147; p. 596.
- Liddy, W., Brooklyn, N. Y. Elastic grip-band for packages. No. 913,962; Mar. 2; Sp. p. 641; Gaz. vol. 140; p. 101.
- Liden, A. F., Chicago, Ill. Planer-tool. No. 943,086; Dec. 14; Sp. p. 2295; Gaz. vol. 149; p. 389.
- Liden, A. F., Chicago, Ill. Tool-holder. No. 943,087; Dec. 14; Sp. p. 2296; Gaz. vol. 149; p. 389.
- Liden, A. F., Chicago, Ill. Boring-bar. No. 943,088; Dec. 14; Sp. p. 2287; Gaz. vol. 149; p. 389.
- Lidgerwood Manufacturing Company. (See Covell, H. N., assignor.)
- Lidgerwood Manufacturing Company. (See Covell and Dickinson, assignors.)
- Lidgerwood Manufacturing Company. (See Crawford, G. N., assignor.)
- Lidgerwood Manufacturing Company. (See Donaldson, F., assignor.)
- Lidgerwood Manufacturing Company. (See Saunders, C., assignor.)
- Lidsen, G., Chicago, Ill. Assembling-clip. No. 910,399; Jan. 19; Sp. p. 4017; Gaz. vol. 138; p. 721.
- Lieb, C. A., New York, N. Y. Spring for automobiles, &c. No. 922,169; May 18; Sp. p. 4250; Gaz. vol. 142; p. 743.
- Lieb, C. A., New York, N. Y. Suspension-spring system for automobiles. No. 933,997; Sept. 14; Sp. p. 2100; Gaz. vol. 146; p. 346.
- Lieb, H., *et al.* (See Green, J. B., assignor.)
- Liébeaux, G., Nantes, and F. Hennebique, Paris, France. Reinforced concrete sleeper for railways and tramways. No. 911,734; Feb. 9; Sp. p. 1411; Gaz. vol. 139; p. 263.
- Liébeaux, G., Nantes, and F. Hennebique, Paris, France. Block for receiving rail-fixing devices in reinforced-concrete sleepers. No. 932,300; Aug. 24; Sp. p. 5660; Gaz. vol. 145; p. 966.
- Lieberfreund, N., New York, N. Y. Ear-ring fastener. No. 919,041; Apr. 20; Sp. p. 4327; Gaz. vol. 141; p. 755.
- Lieberfreund, N., New York, N. Y. Fastener for jewelry. No. 921,421; May 11; Sp. p. 2735; Gaz. vol. 142; p. 470.
- Lieberknecht, S., Hellam, Pa. Grinding-mill. No. 931,321; Aug. 17; Sp. p. 3606; Gaz. vol. 145; p. 622.
- Liebhich, J., Görlitz, Germany. Liquor-containing confection. No. 943,945; Dec. 21; Sp. p. 4115; Gaz. vol. 149; p. 713.
- Liebig, F. E., and R. Ludewig, Dresden, Germany. Rotary shears. No. 924,251; June 8; Sp. p. 2532; Gaz. vol. 143; p. 412.
- Liebig, W. G., Detroit, Mich. Bristle-feeding means for brush-making machines. No. 920,355; May 4; Sp. p. 540; Gaz. vol. 142; p. 86.
- Liebig, W. G., Detroit, Mich. Sandpaper-wheel. No. 922,491; May 25; Sp. p. 4922; Gaz. vol. 142; p. 877.
- Liebner, J. A., New York, N. Y., assignor to Manhattan Box Company. Box. No. 903,784; Jan. 5; Sp. p. 740; Gaz. vol. 138; p. 116.
- Liebling, S., and G. P. Schmidt, New York, N. Y. Amusement device. No. 933,788; Sept. 14; Sp. p. 1682; Gaz. vol. 146; p. 279.
- Liebman, S., assignor to New York Cash Sales Book Company, New York, N. Y. Check-holder. No. 917,623; Apr. 6; Sp. p. 1284; Gaz. vol. 141; p. 227.
- Liebrecht, A., Frankfurt-on-the-Main, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Antiseptic. No. 941,888; Nov. 30; Sp. p. 7568; Gaz. vol. 148; p. 1273.
- Liechty, H., Berne, Switzerland. Spark-arrester. No. 930,200; Aug. 3; Sp. p. 1202; Gaz. vol. 145; p. 196.
- Lier, F., assignor of one-half to G. A. Isenburg, Emerson, Nebr. Disk holder or rest. No. 911,507; Feb. 2; Sp. p. 917; Gaz. vol. 139; p. 160.
- Lieser, W. G., Bolivar, Ohio. Whip-lock. No. 911,309; Feb. 2; Sp. p. 564; Gaz. vol. 139; p. 97.
- Lietz, H., Pittsburg, Pa. Trolley. No. 923,540; June 1; Sp. p. 941; Gaz. vol. 143; p. 146.
- Lietzenmayer, O., assignor to A. Klump, Munich, Germany. Combustion-engine. No. 923,054; May 25; Sp. p. 6102; Gaz. vol. 142; p. 1060.
- Lifshitz, M. J., New Haven, Conn. Fire-escape. No. 932,793; Aug. 31; Sp. p. 6717; Gaz. vol. 145; p. 1152.
- Light, A., Spadra, Ark. Rail-bond. No. 916,882; Mar. 30; Sp. p. 6498; Gaz. vol. 140; p. 1161.
- Light, A. H., Lamar, Colo. Oil-burner. No. 927,561; July 13; Sp. p. 1753; Gaz. vol. 144; p. 313.
- Light, A. H., assignor to A. H. Light Engineering Company, Los Angeles, Cal. Automatic oil-burner. No. 940,539; Nov. 16; Sp. p. 4654; Gaz. vol. 148; p. 775.
- Light, F., Traverse City, Mich. Wrench. No. 935,668; Oct. 5; Sp. p. 93; Gaz. vol. 147; p. 16.
- Light, I., Brook, Ind. Mail-crane. No. 914,434; Mar. 9; Sp. p. 1657; Gaz. vol. 140; p. 283.
- Lightfoot, J., Accrington, England. Indicator for invertible vessels. No. 910,698; Jan. 26; Sp. p. 4641; Gaz. vol. 138; p. 844.
- Lightning Hose-Coupling Company. (See Chapman, C. H., assignor.)
- Ligon, H. W., Atlanta, Ga., assignor to Continental Gin Company, Birmingham, Ala. Cotton-gin-rib-grinding machine. No. 934,976; Sept. 21; Sp. p. 4020; Gaz. vol. 146; p. 699.
- Ligowsky, F. A., assignor to Auto-Ozone Company, Cincinnati, Ohio. Medical electrical device for medical and therapeutical purposes. No. 910,930; Jan. 26; Sp. p. 5092; Gaz. vol. 138; p. 918.
- Liles, H. P., Forest, Ohio, assignor to Perfect Gate Co. Gate. No. 926,010; June 22; Sp. p. 6105; Gaz. vol. 143; p. 1036.
- Liles, O., Belle Center, Ohio. Shaving mug and brush casing. No. 940,883; Nov. 23; Sp. p. 5401; Gaz. vol. 148; p. 915.
- Lilledahl, F. E., Pierce, Nebr. Bathing-suit. No. 916,731; Mar. 30; Sp. p. 6223; Gaz. vol. 140; p. 1114.
- Liljenkrantz, G. A. M., Chicago, Ill. Concrete construction and producing the same. No. 925,204; June 15; Sp. p. 4481; Gaz. vol. 143; p. 765.
- Lilleberg, C. L., assignor to J. B. Mallers, Jr., Chicago, Ill. Automatic coin counting and packaging machine. No. 915,100; Mar. 16; Sp. p. 2983; Gaz. vol. 140; p. 528.
- Lillegren, E. E., Minneapolis, Minn. Lawn-protector. No. 915,975; Mar. 23; Sp. p. 4771; Gaz. vol. 140; p. 843.
- Lilley, D. G., Denver, Colo. Stovepipe-thimble and flue-stopper. No. 914,586; Mar. 9; Sp. p. 1957; Gaz. vol. 140; p. 324.
- Lilley, D. M. (See Gale and Lilley.)
- Lilley, G. W. (See Fraser and Lilley.)
- Lilley, G. W., assignor of one-half to J. Watchpocket, Pontiac, Mich. Vehicle-wheel tire. No. 925,711; June 22; Sp. p. 5481; Gaz. vol. 143; p. 956.
- Lillibridge, C. C., Shattuck, Okla. Oil-burner. No. 944,886; Dec. 28; Sp. p. 6158; Gaz. vol. 149; p. 1059.
- Lillie, G. W., St. Louis, Mo. Passenger-car construction. No. 920,594; May 4; Sp. p. 1016; Gaz. vol. 142; p. 165.
- Lillie, J. A., Pedrow, Mo. Jockey-stick. No. 921,128; May 11; Sp. p. 2109; Gaz. vol. 142; p. 372.
- Lillie, S. M., Philadelphia, Pa. Evaporating apparatus. No. 939,143; Nov. 2; Sp. p. 1471; Gaz. vol. 148; p. 239.
- Lilliendahl, J. G. R., New York, N. Y. Distance-finder. No. 913,526; Feb. 23; Sp. p. 5152; Gaz. vol. 139; p. 918.
- Lilly, E. B., Corwith, Iowa. Lamp-burner. No. 930,201; Aug. 3; Sp. p. 1203; Gaz. vol. 145; p. 196.
- Lilly, J. K., assignor to Eli Lilly & Company, Indianapolis, Ind. Commercial package of medicine. No. 929,610; July 27; Sp. p. 6010; Gaz. vol. 144; p. 1052.
- Lima Brake Shoe Co. (See Norman, J. F., assignor.)
- Lima Brake Shoe Company. (See Lauer, Thomas, and Norman, assignors.)
- Lima Locomotive & Machine Company. (See Feightner, L. E., assignor.)
- Limbirt, S. H., assignor of one-half to C. E. Brening, Springfield, Ohio. Boiler-flue cleaner. No. 913,963; Mar. 2; Sp. p. 642; Gaz. vol. 140; p. 101.
- Limbocker, F. C., East Spokane, Wash. Soft-tread horseshoe. No. 912,583; Feb. 16; Sp. p. 3231; Gaz. vol. 139; p. 579.
- Linaweaver, A. H., Findlay, Ohio. Primer for gasoline-engines. No. 942,785; Dec. 7; Sp. p. 1553; Gaz. vol. 149; p. 255.
- Linborg, C., Galetan, Pa. Garment attachment. No. 925,360; June 15; Sp. p. 4759; Gaz. vol. 143; p. 813.
- Linck, C. F., Oakland, Cal. Window shade and curtain guide. No. 927,864; July 13; Sp. p. 2422; Gaz. vol. 144; p. 414.
- Lincoln, E. S., Brookline, Mass. Jump-spark ignition system. No. 917,736; Apr. 6; Sp. p. 1506; Gaz. vol. 141; p. 264.
- Lincoln, E. S., Brookline, Mass. Dry-cell tester. No. 936,001; Oct. 5; Sp. p. 852; Gaz. vol. 147; p. 128.
- Lincoln, E. S., Brookline, Mass. Electric Goods Manufacturing Company, Boston, Mass. Multiple-contact timer. No. 926,066; June 22; Sp. p. 6231; Gaz. vol. 143; p. 1074.
- Lincoln, F. H., Philadelphia, Pa. Passenger-car. No. 935,853; Oct. 5; Sp. p. 540; Gaz. vol. 147; p. 78.
- Lincoln, I. E. and R. Q., Los Angeles, Cal. Cooking utensil. No. 931,209; Aug. 17; Sp. p. 3354; Gaz. vol. 145; p. 583.
- Lincoln, J. C., assignor, by mesne assignments, to Electric Meat Curing Company, Cleveland, Ohio. Curing meat. No. 930,772; Aug. 10; Sp. p. 2363; Gaz. vol. 145; p. 409.
- Lincoln, P. J., Birmingham, Ala. Electric drill. No. 942,396; Dec. 7; Sp. p. 754; Gaz. vol. 149; p. 123.
- Lincoln, P. M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of electrical distribution. No. 941,372; Nov. 30; Sp. p. 6453; Gaz. vol. 148; p. 1099.
- Lincoln, R. E., Jersey City, N. J. Speed-changing gear. No. 917,624; Apr. 6; Sp. p. 1286; Gaz. vol. 141; p. 227.
- Lincoln, R. Q. (See Lincoln, I. E. and R. Q.)
- Lind, F. E., Kent, Ohio. Rotary circuit-closer. No. 914,435; Mar. 9; Sp. p. 1659; Gaz. vol. 140; p. 283.
- Lindahl, A., Glyndon, Minn. Potato-bug destroyer. No. 931,440; Aug. 17; Sp. p. 3345; Gaz. vol. 145; p. 663.
- Lindahl, G., New Carlisle, Ind. Tire-bolt wrench. No. 937,944; Oct. 26; Sp. p. 4890; Gaz. vol. 147; p. 844.
- Lindau, A. E., assignor to Corrugated Bar Company, St. Louis, Mo. Bar for reinforcing concrete. No. 917,878; Apr. 13; Sp. p. 1845; Gaz. vol. 141; p. 337.
- Lindau, A. E., assignor to Corrugated Bar Company, St. Louis, Mo. Reinforcing-bar. No. 931,322; Aug. 17; Sp. p. 3607; Gaz. vol. 145; p. 622.
- Lindauer, J., Paris, France. Corset. No. 923,361; June 1; Sp. p. 580; Gaz. vol. 143; p. 83.

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- Lindberg, J., San Francisco, Cal. Adjustable combination candy-cutter. No. 912,006; Feb. 9; Sp. p. 2018; Gaz. vol. 139; p. 351.
- Lindberg, L. O., Brockton, Mass. Shoe and fastener therefor. No. 931,441; Aug. 17; Sp. p. 3847; Gaz. vol. 145; p. 663.
- Lindberg, O. H., Grand Rapids Mich. Gun-sight. No. 920,767; May 4; Sp. p. 1354; Gaz. vol. 142; p. 220.
- Lindblad, A. R. (See Grönwall, Lindblad, and Stålhane.)
- Lindblad, E., Kost, Minn. Milk-pump. No. 916,732; Mar. 30; Sp. p. 6225; Gaz. vol. 140; p. 1114.
- Linde, A., Deuben, R. Welde and E. Fickler, Hainsberg, and R. Roderwald, Dresden, Germany. Cycle-support. No. 938,065; Oct. 26; Sp. p. 5149; Gaz. vol. 147; p. 884.
- Linde, C. M., assignor to Hilo Gum Company, Chicago, Ill. Coin-operated vending-machine. No. 924,252; June 8; Sp. p. 2533; Gaz. vol. 143; p. 412.
- Linde, C. M., Fullersburg, and F. C. Franke, assignors to Hilo Gum Company, Chicago, Ill. Coin-controlled delivery mechanism for vending-machines. No. 909,100; Jan. 5; Sp. p. 1371; Gaz. vol. 138; p. 220.
- Lindeboom, G. H. (See Kast, J., assignor.)
- Lindelöf, L., Helsingfors, Russia. Machine for filling cigarette-shells with tobacco. No. 930,395; Aug. 10; Sp. p. 1560; Gaz. vol. 145; p. 282.
- Lindemann & Co., O. (See Lindemann, O., assignor.)
- Lindemann, O., Stapleton, assignor to O. Lindemann & Co., New York, N. Y. Parrot-stand. No. 910,298; Jan. 19; Sp. p. 3819; Gaz. vol. 138; p. 638.
- Lindemann, W., Boston, Mass. Window-ventilator. No. 921,854; May 18; Sp. p. 3645; Gaz. vol. 142; p. 642.
- Lindemann, W. G., Milwaukee, Wis. Socket for electric lamps. No. 926,754; July 6; Sp. p. 101; Gaz. vol. 144; p. 16.
- Linden, A. V., Hayward, Wis. Ventilator. No. 919,193; Apr. 20; Sp. p. 4605; Gaz. vol. 141; p. 804.
- Linden, J. J., and L. A. Rockwell, New York, N. Y.; said Linden assignor to said Rockwell. Automatic weighing-scale. No. 913,298; Feb. 23; Sp. p. 4685; Gaz. vol. 139; p. 841.
- Lindenberger, R. G., New York, N. Y. Means for preventing the flow of water through a water system. No. 922,300; May 18; Sp. p. 4525; Gaz. vol. 142; p. 786.
- Lindemeyer, F., assignor, by mesne assignments, to Gebrüder Schmid, Basel, Switzerland. Apparatus for treating silk in hanks. No. 926,429; June 29; Sp. p. 6980; Gaz. vol. 143; p. 1229.
- Lindenthaler, F. J., Glens Falls, and J. Protz, New York, N. Y. Route-indicator for automobiles. No. 915,976; Mar. 23; Sp. p. 4772; Gaz. vol. 140; p. 844.
- Linder, A., Tacoma, Wash. Carpenter's square. No. 929,146; July 27; Sp. p. 5066; Gaz. vol. 144; p. 900.
- Linder, C., Converse, S. C. Combination-planter. No. 922,922; May 25; Sp. p. 5833; Gaz. vol. 142; p. 1018.
- Linder, G. E., Geneva, Ill. Chair-coupling. No. 942,085; Dec. 7; Sp. p. 107; Gaz. vol. 149; p. 17.
- Linderman, B. A., Muskegon, Mich. Carrier mechanism for lumber-joining machines. No. 929,232; July 27; Sp. p. 5235; Gaz. vol. 144; p. 927.
- Linderman, B. A., Muskegon, Mich. Edging attachment for lumber-joining machines. No. 944,489; Dec. 28; Sp. p. 5291; Gaz. vol. 149; p. 923.
- Lindesmith, N. J., Wynnewood, Okla. Plow. No. 927,363; July 6; Sp. p. 1321; Gaz. vol. 144; p. 219.
- Lindesmith, W., Katie, Okla. Cultivator attachment. No. 934,822; Sept. 21; Sp. p. 3719; Gaz. vol. 146; p. 645.
- Lindstrom, H., assignor to Leader Machine Company, Chicago, Ill. Pressing-machine. No. 925,205; June 15; Sp. p. 4484; Gaz. vol. 143; p. 765.
- Lindwald, C. J. (See Noisom and Lindewald.)
- Lindewirth, C. F. W., and E. A. Wiek, Bielefeld, Germany. Receptacles especially adapted for mustard. No. 922,492; May 25; Sp. p. 4923; Gaz. vol. 142; p. 877.
- Lindgren, A. C., Moline, Ill., assignor to Moline Plow Company. Agricultural implement. No. 925,926; June 22; Sp. p. 5956; Gaz. vol. 143; p. 1028.
- Lindgren, B. J., assignor to Niagara Machine & Tool Works, Buffalo, N. Y. Machine for punching disks, rings, &c. No. 912,007; Feb. 9; Sp. p. 2018; Gaz. vol. 139; p. 351.
- Lindgren, E. W., Hagalund, near Stockholm, assignor to Aktiebolaget Svenska Automatfabriken, Stockholm, Sweden. Vending apparatus. No. 913,663; Feb. 23; Sp. p. 5473; Gaz. vol. 139; p. 964.
- Lindgren, J., and O. A. Mattson, Mount Vernon, Wash. Milk-cooler. No. 933,653; Sept. 7; Sp. p. 1403; Gaz. vol. 146; p. 210.
- Lindhard, P. T., New York, N. Y. Ball-mill. No. 937,826; Oct. 26; Sp. p. 4643; Gaz. vol. 147; p. 804.
- Lindhard, P. T., New York, N. Y. Tube-mill, &c. No. 939,044; Nov. 2; Sp. p. 1279; Gaz. vol. 148; p. 206.
- Lindhorst, E. H. B., San Francisco, Cal. Flag and banner support. No. 925,206; June 15; Sp. p. 4487; Gaz. vol. 143; p. 766.
- Lindley, A. K., Los Angeles, Cal. Oil-burner. No. 934,616; Sept. 21; Sp. p. 3316; Gaz. vol. 146; p. 577.
- Lindley, C. C., Memphis, Tenn. Flushing-tank. No. 939,521; Nov. 9; Sp. p. 2372; Gaz. vol. 148; p. 394.
- Lindner, A. E., New York, N. Y. Glove. No. 925,207; June 15; Sp. p. 4488; Gaz. vol. 143; p. 766.
- Lindner, F. H., Bayonne, N. J. Steam-turbine. No. 915,451; Mar. 16; Sp. p. 3702; Gaz. vol. 140; p. 643.
- Lindner, J., Waconia, Minn. Feeder for grain-binders. No. 943,978; Dec. 21; Sp. p. 4180; Gaz. vol. 149; p. 724.
- Lindow, J. W., Seattle, Wash. Collapsible table. No. 933,474; Sept. 7; Sp. p. 1003; Gaz. vol. 146; p. 152.
- Lindquest, C., Chicago, Ill. Shade-roller bracket. No. 909,195; Jan. 12; Sp. p. 1578; Gaz. vol. 138; p. 284.
- Lindquist, A. V., Alexandria, Minn. Reel. No. 919,042; Apr. 20; Sp. p. 4328; Gaz. vol. 141; p. 755.
- Lindquist, C. E. (See Pearson and Lindquist.)
- Lindquist, D. L., Yonkers, N. Y. Rope-drive elevator. No. 931,935; Aug. 24; Sp. p. 4911; Gaz. vol. 145; p. 843.
- Lindquist, D. L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Alternating-current-controlling means. No. 937,617; Oct. 19; Sp. p. 4210; Gaz. vol. 147; p. 717.
- Lindqvist, J., and E. I. Hillstrom, Chicago, Ill. Arm-chair bed. No. 937,538; Oct. 19; Sp. p. 4070; Gaz. vol. 147; p. 692.
- Lindsay, C. T., Pittsburg, Pa. Shear-bar for reinforced concrete construction. No. 925,643; June 22; Sp. p. 5343; Gaz. vol. 143; p. 935.
- Lindsay, E. F., Pringle, S. D. Support and insulator. No. 942,086; Dec. 7; Sp. p. 109; Gaz. vol. 149; p. 18.
- Lindsay, F. J., Flint, Mich. Cheese-protector. No. 925,489; June 22; Sp. p. 5007; Gaz. vol. 143; p. 884.
- Lindsay, J. M., et al. (See Horning, R. A., assignor.)
- Lindsay, L. J., assignor of one-half to J. La Follette, Seymour, Iowa. Hay-stacker. No. 936,332; Oct. 12; Sp. p. 1504; Gaz. vol. 147; p. 260.
- Lindsay, M. M., and J. W. Hedgepeth, Ripley, Tenn., assignors of three-fourths to said Lindsay and one-fourth to said Hedgepeth. Machine for perforating paper. No. 916,172; Mar. 23; Sp. p. 5126; Gaz. vol. 140; p. 907.
- Lindsay, T. J., assignor of one-half to W. Harmon, Indianapolis, Ind. Automobile. No. 925,779; June 22; Sp. p. 5646; Gaz. vol. 143; p. 979.
- Lindsay, W., Chicago, Ill. Enameling-powder distributor. No. 939,918; Nov. 9; Sp. p. 3236; Gaz. vol. 148; p. 533.
- Lindsay, W. A., Anderson, Ind. Paring and cutting knife. No. 919,735; Apr. 27; Sp. p. 5949; Gaz. vol. 141; p. 1021.
- Lindsey, J. H., Kevil, Ky. Harrow. No. 943,690; Dec. 21; Sp. p. 3580; Gaz. vol. 149; p. 624.
- Linskog, P. N., Tacoma, Wash. Automatic dump-wagon. No. 931,936; Aug. 24; Sp. p. 4914; Gaz. vol. 145; p. 844.
- Lindsley, W. L. (See Johnson, C. H., assignor.)
- Lindstrand, S., Chicago, Ill. Countersink attachment. No. 938,673; Nov. 2; Sp. p. 510; Gaz. vol. 148; p. 78.
- Lindström, C. A., Allegheny, Pa. Journal-box lid. No. 931,442; Aug. 17; Sp. p. 3848; Gaz. vol. 145; p. 663.
- Lindström, C. A., Allegheny, Pa. Vehicle-wheel. No. 937,618; Oct. 19; Sp. p. 4215; Gaz. vol. 147; p. 717.
- Lindström, C. A., assignor to Pressed Steel Car Company, Pittsburg, Pa. Passenger-car-end construction. No. 917,085; Apr. 6; Sp. p. 249; Gaz. vol. 141; p. 45.
- Lindström, C. A., assignor to Pressed Steel Car Company, Pittsburg, Pa. Car-door mechanism. No. 917,321; Apr. 6; Sp. p. 755; Gaz. vol. 141; p. 128.
- Lindström, C. A., assignor to Pressed Steel Car Company, Pittsburg, Pa. Tank-car. No. 935,210; Sept. 28; Sp. p. 4498; Gaz. vol. 146; p. 800.
- Lindström, C. A., assignor to Pressed Steel Car Company, Pittsburg, Pa. Car-door-operating mechanism. No. 939,426; Nov. 9; Sp. p. 2187; Gaz. vol. 148; p. 363.
- Lindström, C. A., assignor to Pressed Steel Car Company, Pittsburg, Pa. Bolster. No. 943,980; Dec. 21; Sp. p. 4184; Gaz. vol. 149; p. 724.
- Lindström, C. A., Allegheny, assignor to Pressed Steel Car Company, Pittsburg, Pa. Car construction. No. 917,956; Apr. 13; Sp. p. 2002; Gaz. vol. 141; p. 364.
- Lindström, C. A., Allegheny, assignor to Pressed Steel Car Company, Pittsburg, Pa. Car-door-operating mechanism. No. 939,425; Nov. 9; Sp. p. 2180; Gaz. vol. 148; p. 363.
- Lindström, C. A., Allegheny, assignor to Pressed Steel Car Company, Pittsburg, Pa. Dumping-car. No. 943,259; Dec. 14; Sp. p. 2637; Gaz. vol. 149; p. 447.
- Lindström, C. A., Allegheny, assignor to Pressed Steel Car Company, Pittsburg, Pa. Bolster. No. 943,979; Dec. 21; Sp. p. 4183; Gaz. vol. 149; p. 724.
- Lindström, C. O., Chicago, Ill. Vibratory massage apparatus. No. 915,197; Mar. 16; Sp. p. 3209; Gaz. vol. 140; p. 560.
- Lindström, K. I., Nygård, Sweden. Milking apparatus. No. 911,416; Feb. 2; Sp. p. 760; Gaz. vol. 139; p. 132.
- Lindström, K. I., Nygård, Sweden. Milking-machine. No. 934,681; Sept. 21; Sp. p. 3444; Gaz. vol. 146; p. 600.
- Lindström, K. I., Nygård, Sweden. Milking-machine. No. 941,789; Nov. 30; Sp. p. 7345; Gaz. vol. 148; p. 1238.
- Linehan, F. J., Boston, Mass. Car-ventilator. No. 942,451; Dec. 7; Sp. p. 873; Gaz. vol. 149; p. 143.



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- Lines, E. R., *et al.* (See Bane and Crane, assignors.)
- Lines, H. A., West Haven, Conn. Electric signal mechanism for overhead-trolley systems. No. 924,800; June 15; Sp. p. 3669; Gaz. vol. 143; p. 629.
- Linga, T., Thor, Iowa. Ditching-machine. No. 910,552; Jan. 26; Sp. p. 4344; Gaz. vol. 138; p. 798.
- Lingenfelter, C. E., Chicago, Ill. Boiler-hanger. No. 933,909; Sept. 14; Sp. p. 1938; Gaz. vol. 146; p. 319.
- Lingenfelter, F. D., Syracuse, N. Y., and W. E. Cutts, Wyncote, Wyo. Running-gear. No. 915,101; Mar. 16; Sp. p. 2993; Gaz. vol. 140; p. 528.
- Lingenfelter M., McKee Gap, Pa. Brake. No. 910,553; Jan. 26; Sp. p. 4347; Gaz. vol. 138; p. 798.
- Linhardt, E., *et al.* (See Forst, M., assignor.)
- Linhardt, E., New York, N. Y. Passenger control. No. 922,170; May 18; Sp. p. 4252; Gaz. vol. 142; p. 743.
- Linhardt, J., New York, N. Y. Fare-register. No. 909,625; Jan. 12; Sp. p. 2409; Gaz. vol. 138; p. 426.
- Linhardt, J., New York, N. Y. Combined corset-protector and hose-supporter. No. 916,733; Mar. 30; Sp. p. 6226; Gaz. vol. 140; p. 1114.
- Linhardt, C. C., *et al.* (See Short, R. L., assignor.)
- Linhardt, H. S., *et al.* (See Short, R. L., assignor.)
- Lininger, W. W., Denver, Colo. Type-setting machine. No. 913,743; Mar. 2; Sp. p. 138; Gaz. vol. 140; p. 24.
- Link-Belt Company. (See Berg, W. G., assignor.)
- Link-Belt Company. (See Dodge, J. M., assignor.)
- Link-Belt Company. (See Waechter and Würster, Jr., assignors.)
- Link, G. M., Dunkirk, N. Y. Feed-trough and exercising device for fowls. No. 917,625; Apr. 6; Sp. p. 1289; Gaz. vol. 141; p. 228.
- Link, H. N., assignor to United Manufacturing Company, Detroit, Mich. Lubricating system. No. 921,129; May 11; Sp. p. 2110; Gaz. vol. 142; p. 372.
- Link, V., Detroit, Mich. Speed-indicator. No. 917,322; Apr. 6; Sp. p. 756; Gaz. vol. 141; p. 128.
- Linkins, C. (See Geraci, I., assignor.)
- Linkletter, R., Jersey City, N. J., and J. H. De Freitas, New York, N. Y. Window structure. No. 927,985; July 13; Sp. p. 2669; Gaz. vol. 144; p. 454.
- Links, L., and R. E. Irwin, Harrisburg, Pa. Flush-valve-operating means for closets. No. 937,619; Oct. 19; Sp. p. 4217; Gaz. vol. 147; p. 718.
- Linn, G. A., Cantril, Iowa. Wire-stretcher. No. 917,879; Apr. 13; Sp. p. 1847; Gaz. vol. 141; p. 337.
- Linn, J. A., assignor to Stork Folding Crib Company, Vermilion, S. D. Child's folding bed. No. 924,619; June 8; Sp. p. 3279; Gaz. vol. 143; p. 534.
- Linnell, B. F. G., Central Falls, R. I. Package. No. 933,189; Sept. 7; Sp. p. 340; Gaz. vol. 146; p. 54.
- Linnemeyer, A., Quincy, Ill. Safety device for elevators. No. 918,755; Apr. 20; Sp. p. 3730; Gaz. vol. 141; p. 662.
- Linotype and Machinery Limited. (See Billington and Holliwell, assignors.)
- Linotype and Machinery Limited. (See Holbourns and Longhurst, assignors.)
- Linotype and Machinery Limited. (See North, T. M., assignor.)
- Linotype and Machinery Limited. (See Parker, T. R. G., assignor.)
- Linotype and Machinery Limited. (See Pearce, H., assignor.)
- Linotype and Machinery Limited. (See White, W. G., assignor.)
- Linotype and Machinery Limited. (See Wich, F. J., assignor.)
- Lint, A., assignor of one-half to D. P. Clark, Dayton, Ohio. Friction-clutch. No. 928,871; July 20; Sp. p. 4485; Gaz. vol. 144; p. 781.
- Lint, A., assignor of one-half to D. P. Clark, Dayton, Ohio. Friction-clutch. No. 942,574; Dec. 7; Sp. p. 1136; Gaz. vol. 149; p. 184.
- Linton, A. E., assignor of one-half to C. K. Brashiers, St. Paul, Ark. Nut-lock. No. 933,998; Sept. 14; Sp. p. 2102; Gaz. vol. 146; p. 346.
- Linton Machine Company. (See Ferguson, T., assignor.)
- Lintow, G. A., La Moine, Cal. Clamp. No. 924,478; June 8; Sp. p. 2968; Gaz. vol. 143; p. 486.
- Linxweiler, J., Bad Kissingen, Germany. Support for stretchers. No. 932,479; Aug. 31; Sp. p. 6029; Gaz. vol. 145; p. 1046.
- Linzee, J. W., Jr., Boston, Mass. Reinforcing construction for concrete. No. 943,310; Dec. 14; Sp. p. 2744; Gaz. vol. 149; p. 463.
- Lionel Manufacturing Company. (See Grant, H. C., assignor.)
- Lipe, J. J., Witt, Ill. Apparatus for treating wooden wheels. No. 941,683; Nov. 30; Sp. p. 7104; Gaz. vol. 148; p. 1201.
- Lipe, W. C., Syracuse, N. Y. Universal joint. No. 942,087; Dec. 7; Sp. p. 110; Gaz. vol. 149; p. 18.
- Lippelt, H., Lynn, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 919,604; Apr. 27; Sp. p. 5687; Gaz. vol. 141; p. 978.
- Lippincott, F. H., assignor to Lippincott Pencil Company, Philadelphia Pa. Pencil and making same. No. 937,252; Oct. 19; Sp. p. 3451; Gaz. vol. 147; p. 596.
- Lippincott, G. A., Mount Holly, assignor to H. B. Smith Machine Company, Smithville, N. J. Sander-head. No. 923,865; June 8; Sp. p. 1719; Gaz. vol. 143; p. 286.
- Lippincott, H. H. (See Stines, F. M., assignor.)
- Lippincott Pencil Company. (See Lippincott, F. H., assignor.)
- Lippincott, W., Philadelphia, Pa. Tree and plant guard and protector. No. 933,654; Sept. 7; Sp. p. 1404; Gaz. vol. 146; p. 211.
- Lippitt, F. S., Cleveland, Ohio. Fresh-air-supply device. No. 937,827; Oct. 26; Sp. p. 4647; Gaz. vol. 147; p. 804.
- Lippmann, L. J. (See Kaufman and Lippmann.)
- Lippold, H., Erie, Pa. Valve. No. 926,885; July 6; Sp. p. 376; Gaz. vol. 144; p. 60.
- Lippold, H., and H. C. Lord, assignors to Tribune Trap & Target Company, Erie, Pa. Machine for forming articles of plastic materials. No. 913,664; Feb. 23; Sp. p. 5476; Gaz. vol. 139; p. 964.
- Lipps, E. C., assignor to Peerless Electric Company, Warren, Ohio. Electric-fan support. No. 919,898; Apr. 27; Sp. p. 6300; Gaz. vol. 141; p. 1076.
- Lipps, W., assignor of one-half to D. De Prez, Shelbyville, Ind. Duplex sash-lock. No. 909,432; Jan. 12; Sp. p. 2022; Gaz. vol. 138; p. 360.
- Lippstadt, S., New York, N. Y. Liquid-dispenser. No. 928,059; July 13; Sp. p. 2822; Gaz. vol. 144; p. 480.
- Lippstadt, S., New York, N. Y. Pump for soap-dispensers. No. 928,139; July 13; Sp. p. 2959; Gaz. vol. 144; p. 506.
- Lipschutz, A., assignor, by mesne assignments, to National Dump Car Company, Chicago, Ill. Dump-car. No. 922,923; May 25; Sp. p. 5836; Gaz. vol. 142; p. 1018.
- Lipschutz, S. G., Philadelphia, Pa. Cigar-presser. No. 942,397; Dec. 7; Sp. p. 757; Gaz. vol. 149; p. 123.
- Lipscomb, C. E., *et al.* (See Pellet, A. V., assignor.)
- Liquid Carbonic Company. (See Baur, O., assignor.)
- Liquid Vending Machine Company. (See Sage and Mitchell, assignors.)
- Lisch, J. J., and W. L. Root, Cincinnati, Ohio; said Lisch assignor to said Root. Automatic combined gas and water cock for mechanisms for heating liquids. No. 934,555; Sept. 21; Sp. p. 3181; Gaz. vol. 146; p. 556.
- Lischer, J. W., Syracuse, N. Y. Plant-sprinkling apparatus. No. 910,400; Jan. 19; Sp. p. 4019; Gaz. vol. 138; p. 722.
- Lischke, M., Düsseldorf, Germany. Machine for leveling a plastic covering on floors. No. 910,073; Jan. 19; Sp. p. 3301; Gaz. vol. 138; p. 609.
- Lish, W. H., York, Pa. Grinding, mixing, and sifting machine. No. 929,770; Aug. 3; Sp. p. 294; Gaz. vol. 145; p. 50.
- Lisk Manufacturing Co. (See Brown, T. D., assignor.)
- List, E. J. (See Seay, J. M., assignor.)
- List, O. (See Atkinson, T. N., assignor.)
- Lister, G. A. (See Morris and Lister.)
- Lister, G. F. (See Keith and Lister.)
- Lister-Noble Roller Company. (See Milson, J. R., assignor.)
- Litchfield, E. C., and D. Garst, assignors to Litchfield Manufacturing Company, Waterloo, Iowa. Manure-spreader. (Reissue.) No. 13,047; Nov. 30; Sp. p. 7864; Gaz. vol. 148; p. 1325.
- Litchfield, I. W. (See Ames and Litchfield.)
- Litchfield, I. W., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Carrier for pneumatic-despatch-tube apparatus. No. 923,280; June 1; Sp. p. 394; Gaz. vol. 143; p. 55.
- Litchfield, I. W., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 923,281; June 1; Sp. p. 395; Gaz. vol. 143; p. 55.
- Litchfield, I. W., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 944,680; Dec. 28; Sp. p. 5703; Gaz. vol. 149; p. 989.
- Litchfield, P. W., assignor to Goodyear Tire and Rubber Company, Akron, Ohio. Vehicle-wheel rim. No. 943,029; Dec. 14; Sp. p. 2160; Gaz. vol. 149; p. 369.
- Litchfield, P. W., assignor to Goodyear Tire and Rubber Company, Akron, Ohio. Tire. No. 943,358; Dec. 14; Sp. p. 2855; Gaz. vol. 149; p. 480.
- Litchfield, P. W., assignor to Goodyear Tire and Rubber Company, Akron, Ohio. Vulcanizing-mold. No. 944,339; Dec. 28; Sp. p. 4937; Gaz. vol. 149; p. 870.

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- Lithander, N. P., Hallock, Minn. Miter-box. No. 937,946; Oct. 26; Sp. p. 4891; Gaz. vol. 147; p. 845.
- Little, A. R., assignor of two-thirds to E. H. Smith and T. E. Sedgwick, York, Nebr. Powder for use in making overlays. No. 908,586; Jan. 5; Sp. p. 330; Gaz. vol. 138; p. 54.
- Little, A. S. B., St. Louis, Mo. Bench-governor. No. 937,828; Oct. 26; Sp. p. 4649; Gaz. vol. 147; p. 804.
- Little, A. S. B., St. Louis, Mo. Retort-charger. No. 937,829; Oct. 26; Sp. p. 4651; Gaz. vol. 147; p. 805.
- Little, C. W., Montclair, N. J. Ornamental pin or badge. No. 932,480; Aug. 31; Sp. p. 6030; Gaz. vol. 145; p. 1046.
- Little & Company, A. E. (See Baynard, W. H., assignor.)
- Little, G. M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for starting arc-lamps. No. 917,778; Apr. 13; Sp. p. 1642; Gaz. vol. 141; p. 305.
- Little, G. M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-lamp electrode. No. 931,133; Aug. 17; Sp. p. 3179; Gaz. vol. 145; p. 556.
- Little, G. M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-lamp having magnetizable electrodes. No. 933,769; Sept. 14; Sp. p. 1652; Gaz. vol. 146; p. 273.
- Little, G. M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-lamp. No. 933,770; Sept. 14; Sp. p. 1653; Gaz. vol. 146; p. 273.
- Little, J. S., and T. A. Jones, Baltimore, Md. Sand-screen. No. 937,312; Oct. 19; Sp. p. 3558; Gaz. vol. 147; p. 615.
- Little, J. W., West Point, Miss. Fertilizer-distributor. No. 932,301; Aug. 24; Sp. p. 5662; Gaz. vol. 145; p. 966.
- Little, J. W., West Point, Miss. Seed-planter. No. 932,302; Aug. 24; Sp. p. 5665; Gaz. vol. 145; p. 966.
- Little, P. E., Dayton, Ohio. Fireless cooker. No. 923,866; June 8; Sp. p. 721; Gaz. vol. 143; p. 286.
- Little, W. J. (See Rogers, S. H., assignor.)
- Littlefield, A. F., Lynn, Mass. Lacing-stud. No. 920,356; May 4; Sp. p. 543; Gaz. vol. 142; p. 86.
- Littlefield, A. S. (See McGough, S. P., assignor.)
- Littlejohn, C. F., assignor, by mesne assignments, to Recording Register & Fare Box Company, New Haven, Conn. Stop device for registering mechanisms. No. 944,242; Dec. 21; Sp. p. 4724; Gaz. vol. 149; p. 809.
- Littler, R., Haddonfield, N. J. Bottling-machine. No. 942,271; Dec. 7; Sp. p. 514; Gaz. vol. 149; p. 81.
- Littleton, T. F., Brockton, Mass. Welting and lasting boot and shoe uppers. No. 925,208; June 15; Sp. p. 4489; Gaz. vol. 143; p. 767.
- Littman, A., and W. J. Lackie, Cleveland, Ohio. Shaft-tug attachment. No. 941,326; Nov. 23; Sp. p. 6342; Gaz. vol. 148; p. 1061.
- Littrell, A. V. (See Justis and Littrell.)
- Litts, W. J., Janesville, Wis. Hot-water apparatus. No. 915,452; Mar. 16; Sp. p. 3704; Gaz. vol. 140; p. 643.
- Livingood, W. S., Kansas City, Mo. Road-grader. No. 928,205; July 13; Sp. p. 3106; Gaz. vol. 144; p. 529.
- Livingood, W. S., assignor to Smith & Sons Mfg. Co., Kansas City, Mo. Road-grading attachment for vehicles. No. 922,493; May 25; Sp. p. 4926; Gaz. vol. 142; p. 878.
- Livingood, W. S., assignor to Smith & Sons Mfg. Co., Kansas City, Mo. Baling-press. No. 927,807; July 13; Sp. p. 2291; Gaz. vol. 144; p. 396.
- Livingood, W. S., assignor to Smith & Sons Mfg. Co., Kansas City, Mo. Dumping-wagon. No. 936,730; Oct. 12; Sp. p. 2375; Gaz. vol. 147; p. 395.
- Livergood, G. R., assignor of one-half to V. C. Sommer, St. Joseph, Mo. Umbrella-window. No. 928,774; July 20; Sp. p. 4291; Gaz. vol. 144; p. 748.
- Livergood, G. R., and B. C. Donnelly, assignors of one-half to E. P. Snowden, St. Joseph, Mo. Street and station annunciator and advertiser. No. 937,253; Oct. 19; Sp. p. 3454; Gaz. vol. 147; p. 596.
- Livernore, C. B., Seattle, Wash. Ticket-punch. No. 912,142; Feb. 9; Sp. p. 2275; Gaz. vol. 139; p. 394.
- Livernore, E. W., Bellingham, Wash. Exhibiting device. No. 925,209; June 15; Sp. p. 4491; Gaz. vol. 143; p. 767.
- Livernore and Knight Co. (See Hagen, R., assignor.)
- Livernore & Knight Company. (See Holt, W. O., assignor.)
- Livesey, D. B., Seattle, Wash. Fireplace-damper. No. 926,266; June 29; Sp. p. 6667; Gaz. vol. 143; p. 1177.
- Livignano, D., Cleveland, Ohio. Arch-support. No. 937,830; Oct. 26; Sp. p. 4653; Gaz. vol. 147; p. 805.
- Livingston, A. E. (See Livingston, W. and A. E.)
- Livingston, A. W., Alameda, Cal., assignor to United States Stone Saw Company, Tucson, Ariz. Ter. Stone-saw. No. 918,874; Apr. 20; Sp. p. 3986; Gaz. vol. 141; p. 700.
- Livingston, A. W., Alameda, Cal., assignor to United States Stone Saw Company, Tucson, Ariz. Ter. Stone-sawing machine. No. 919,194; Apr. 20; Sp. p. 4606; Gaz. vol. 141; p. 804.
- Livingston, A. W., Alameda, Cal., assignor to United States Stone Saw Company, Tucson, Ariz. Ter. Stone-sawing machine. No. 919,195; Apr. 20; Sp. p. 4609; Gaz. vol. 141; p. 804.
- Livingston, C. C., Faribault, Minn. Garment-holder. No. 939,606; Nov. 9; Sp. p. 2575; Gaz. vol. 148; p. 423.
- Livingston, J. (See Charles and Faujat, assignors.)
- Livingston, J., assignor of one-half to D. C. Heron, Ottawa, Ontario, Canada. Whey and milk measuring apparatus. No. 931,071; Aug. 17; Sp. p. 3055; Gaz. vol. 145; p. 535.
- Livingston, J. B., New Haven, Conn. Percolator. No. 939,281; Nov. 9; Sp. p. 1809; Gaz. vol. 148; p. 313.
- Livingston, L. B. (See Putnam and Livingston.)
- Livingston, N. H., Globe, Ariz. Reclaiming or recovering values from dust. No. 943,752; Dec. 21; Sp. p. 3711; Gaz. vol. 149; p. 645.
- Livingston, R. C., Spring Valley, Minn. Switchboard. No. 933,716; Sept. 7; Sp. p. 1543; Gaz. vol. 146; p. 234.
- Livingston, W. and A. E., Hastings, Nebr. Burial-vault. No. 943,981; Dec. 21; Sp. p. 4186; Gaz. vol. 149; p. 724.
- Livingston, W. H., Roscoe, Ill. Clevis. No. 912,143; Feb. 9; Sp. p. 2278; Gaz. vol. 139; p. 395.
- Livingston, W. R. (See Moore, F. H., assignor.)
- Livingstone, L. S., Johnstown, Pa. Fumigator. No. 917,626; Apr. 6; Sp. p. 1291; Gaz. vol. 141; p. 228.
- Livtschak, W., St. Petersburg, Russia. Harvesting-machine. No. 908,873; Jan. 5; Sp. p. 913; Gaz. vol. 138; p. 145.
- Lizotte, J., deceased, Quincy, Mass.; M. L. Lizotte, administratrix. Machine for covering studs. No. 917,627; Apr. 6; Sp. p. 1292; Gaz. vol. 141; p. 228.
- Lizotte, M. L., administratrix. (See Lizotte, J.)
- Ljung, J., Alexandria, Minn. Saw-vise. No. 918,338; Apr. 13; Sp. p. 2794; Gaz. vol. 141; p. 494.
- Ljungström, B., Stockholm, Sweden. Radial turbine. No. 908,685; Jan. 5; Sp. p. 541; Gaz. vol. 138; p. 84.
- Ljungström, B., Stockholm, Sweden. Vane series for turbines. No. 911,663; Feb. 9; Sp. p. 1278; Gaz. vol. 139; p. 239.
- Ljungström, B., Stockholm, Sweden. Shaft-packing. No. 913,407; Feb. 23; Sp. p. 4903; Gaz. vol. 139; p. 879.
- Ljungström, B., Stockholm, Sweden. Elastic-fluid turbine. No. 919,196; Apr. 20; Sp. p. 4611; Gaz. vol. 141; p. 805.
- Ljungström, B., Stockholm, Sweden. Vane-ring for turbines. No. 933,379; Sept. 7; Sp. p. 794; Gaz. vol. 146; p. 122.
- Ljungström, B., assignor to Aktiebolaget Ljungström Augturbin, Stockholm, Sweden. Elastic-fluid turbine. No. 931,323; Aug. 17; Sp. p. 3609; Gaz. vol. 145; p. 622.
- Ljungström, B., assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Elastic-fluid turbine. No. 926,814; July 6; Sp. p. 215; Gaz. vol. 144; p. 36.
- Ljungström, B., and E. A. Forsberg, Stockholm, Sweden. Turbine. No. 911,662; Feb. 9; Sp. p. 1276; Gaz. vol. 139; p. 239.
- Llewellyn, G. W., assignor of one-half to S. W. Dininger, Phoenixville, Pa. Disinfectant-holder. No. 917,779; Apr. 13; Sp. p. 1644; Gaz. vol. 141; p. 305.
- Lloyd, E. F., Detroit, Mich. Gas-scrubber. No. 916,464; Mar. 30; Sp. p. 5710; Gaz. vol. 140; p. 1030.
- Lloyd, F. C., assignor of one-half to L. B. Ferguson, Wayne, W. Va. Ironing-table. No. 916,341; Mar. 23; Sp. p. 5428; Gaz. vol. 140; p. 964.
- Lloyd, H. A., et al. (See Shepard, H. W., assignor.)
- Lloyd, H. H., Macon, Ga. Switch-stand. No. 927,364; July 6; Sp. p. 1323; Gaz. vol. 144; p. 220.
- Lloyd, J. A., Clark Fork, Idaho. Shell-fish opener. No. 943,982; Dec. 21; Sp. p. 4187; Gaz. vol. 149; p. 725.
- Lloyd, L. H., Decatur, Ill. Fountain-pen. No. 928,312; July 20; Sp. p. 3395; Gaz. vol. 144; p. 597.
- Lloyd, M. B., Minneapolis, Minn. Hand-car. No. 908,785; Jan. 5; Sp. p. 742; Gaz. vol. 138; p. 116.
- Lloyd, M. B., assignor to Lloyd Manufacturing Co., Menominee, Mich. Making coiled-wire fabric. No. 933,475; Sept. 7; Sp. p. 1004; Gaz. vol. 146; p. 152.
- Lloyd, M. B., assignor to Lloyd Manufacturing Co., Menominee, Mich. Wire coiling and weaving machine. No. 933,476; Sept. 7; Sp. p. 1011; Gaz. vol. 146; p. 152.
- Lloyd, M. Y., et al. (See Shepard, H. W., assignor.)
- Lloyd Manufacturing Co. (See Lloyd, M. B., assignor.)
- Lloyd, O. S., Salisbury, Md. Check-valve. No. 919,043; Apr. 20; Sp. p. 4330; Gaz. vol. 141; p. 756.
- Lloyd, R. L. (See Dwight and Lloyd.)
- Lloyd, R. M., Oyster Bay, N. Y., assignor to General Vehicle Company. Automobile-chassis. No. 930,551; Aug. 10; Sp. p. 1912; Gaz. vol. 145; p. 337.
- Lloyd, W. E. (See Riley, S. A. D., assignor.)



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- Lloyd, W. J., Pittsfield, Mass., assignor, by mesne assignments, to General Electric Company. Electric demand instrument. No. 919,605; Apr. 27; Sp. p. 5690; Gaz. vol. 141; p. 978.
- Lloyd, W. J., Rugby, England, and L. Wilson, Denver, Colo., assignors, by mesne assignments, to General Electric Company. Electrical measuring instrument. No. 925,113; June 15; Sp. p. 4307; Gaz. vol. 143; p. 734.
- Loan, W. F., assignor to Flat Mop Manufacturing Co., Somerville, Mass. Mop. No. 928,991; July 27; Sp. p. 4736; Gaz. vol. 144; p. 849.
- Lobnitz and Company. (See Allan, P. W., assignor.)
- Lochmann, P., Zeulenroda, Germany. Barrel for orchestrons and similar musical instruments. No. 921,548; May 11; Sp. p. 2980; Gaz. vol. 142; p. 512.
- Lochridge, T. J., *et al.* (See Estes, W. B., assignor.)
- Lochtin, P., Alexandrow, near Moscow, Russia. Cultivator. No. 908,874; Jan. 5; Sp. p. 916; Gaz. vol. 138; p. 146.
- Lock-Bracket Manufacturing Co. (See Potter and Louis, assignors.)
- Lock Joint Bale Tie Company. (See Johnson, H. B., assignor.)
- Lock Joint Pipe Company. (See Mitchell and Meriwether, assignors.)
- Locke, A. J., *et al.* (See Pitts, E. L., assignor.)
- Locke, C. F. A. (See Turner and Locke.)
- Locke, E. W., Chicago, Ill. Therapeutic lamp. No. 909,627; Jan. 12; Sp. p. 2413; Gaz. vol. 138; p. 427.
- Locke, F. M., Victor, N. Y. Die for forming insulators. (Reissue.) No. 12,934; Apr. 6; Sp. p. 1532; Gaz. vol. 141; p. 266.
- Locke, F. M., Victor, N. Y. System of insulation for high-voltage electric conductors. No. 918,339; Apr. 13; Sp. p. 2796; Gaz. vol. 141; p. 494.
- Locke, F. M., Victor, N. Y. Manufacture of spar insulators. (Reissue.) No. 12,992; July 13; Sp. p. 3189; Gaz. vol. 144; p. 545.
- Locke Insulator Manufacturing Company. (See Goddard, W. T., assignor.)
- Locke, J. L., and W. J. Outhouse, Indianapolis, assignors of one-third to W. O. Bever, Muncie, Ind. Power-transmission mechanism. No. 925,490; June 22; Sp. p. 5009; Gaz. vol. 143; p. 884.
- Locke, J. P., Toledo, Ohio. Dental floss-holder. No. 911,664; Feb. 9; Sp. p. 1279; Gaz. vol. 139; p. 239.
- Locke, J. R., assignor to W. T. Boyles, Dayton, Ohio. Fence-wire stretcher. No. 915,686; Mar. 16; Sp. p. 4205; Gaz. vol. 140; p. 724.
- Locke, N. A., assignor to Hunter Fan & Motor Company, Fulton, N. Y. Electric-motor fan. No. 939,723; Nov. 9; Sp. p. 2809; Gaz. vol. 148; p. 465.
- Locke, N. C., Salem, Mass. Automatic valve-controller. No. 924,680; June 15; Sp. p. 3412; Gaz. vol. 143; p. 587.
- Locke, N. C., assignor to Locke Regulator Company, Salem, Mass. Automatic regulator for dampers. No. 924,559; June 8; Sp. p. 3142; Gaz. vol. 143; p. 513.
- Locke, N. C., assignor to Locke Regulator Company, Salem, Mass. Non-return stop-valve. No. 926,755; July 6; Sp. p. 102; Gaz. vol. 144; p. 16.
- Locke Regulator Company. (See Kimball, J. L., assignor.)
- Locke Regulator Company. (See Locke, N. C., assignor.)
- Locke, W., Westfield, and E. B. Dunn, East Orange, N. J., assignors, by mesne assignments, to Vacuum Engineering Company. Suction apparatus for pneumatic cleaning systems. No. 919,369; Apr. 27; Sp. p. 6176; Gaz. vol. 141; p. 897.
- Locke, W., Westfield, and E. B. Dunn, East Orange, N. J., assignors, by mesne assignments, to Vacuum Engineering Company. Pneumatic suction cleaning apparatus. No. 919,606; Apr. 27; Sp. p. 5692; Gaz. vol. 141; p. 979.
- Locke, W. G., Oxford, Me. Music-holder and leaf-turner. No. 934,326; Sept. 14; Sp. p. 2744; Gaz. vol. 146; p. 455.
- Lockett Crimping Machine Company. (See Legg, A. G., assignor.)
- Lockhart, E. J., Battle Creek, Mich. Fish bait or lure. No. 923,670; June 1; Sp. p. 1230; Gaz. vol. 143; p. 190.
- Lockhart, J., Portland, Oreg. Tone-correcting means for brass wind instruments. No. 935,626; Sept. 28; Sp. p. 5344; Gaz. vol. 146; p. 938.
- Locklin, G. C., Hammond, Ind. Folding strap or brace. No. 938,674; Nov. 2; Sp. p. 511; Gaz. vol. 148; p. 78.
- Lockport Stamping Co. (See Hanchett, O. R., assignor.)
- Lockwood, A. A. (See Samuel and Lockwood.)
- Lockwood, A. A., and M. R. A. Samuel, London, England. Treating ores. No. 933,717; Sept. 7; Sp. p. 1547; Gaz. vol. 146; p. 234.
- Lockwood, A. D., Peekskill, N. Y. Brush-guard. No. 939,522; Nov. 9; Sp. p. 2375; Gaz. vol. 148; p. 394.
- Lockwood, B. F., Frewsburg, N. Y. Syringe. No. 921,130; May 11; Sp. p. 2112; Gaz. vol. 142; p. 372.
- Lockwood, B. F., Lyons, N. Y. Silo. No. 940,170; Nov. 16; Sp. p. 3824; Gaz. vol. 148; p. 649.
- Lockwood, C. S. (See Steenstrup and Lockwood.)
- Lockwood, C. W., La Grange, Ill. Fluid check-valve. No. 932,149; Aug. 24; Sp. p. 5368; Gaz. vol. 145; p. 915.
- Lockwood, D. D., Bridgeport, Conn. Electric lamp. No. 932,621; Aug. 31; Sp. p. 6349; Gaz. vol. 145; p. 1095.
- Lockwood, E. M., Philadelphia, Pa., assignor to C. R. Carver Company. Inking mechanism for printing-machines. No. 921,615; May 11; Sp. p. 3123; Gaz. vol. 142; p. 534.
- Lockwood, H. S., South Norwalk, Conn. Escutcheon-plate. No. 924,801; June 15; Sp. p. 3671; Gaz. vol. 143; p. 629.
- Lockwood, H. S., South Norwalk, Conn. Door-knob. No. 938,776; Nov. 2; Sp. p. 697; Gaz. vol. 148; p. 112.
- Lockwood, J. E., Detroit, Mich. Apparatus for exhibiting moving pictures. No. 929,678; Aug. 3; Sp. p. 70; Gaz. vol. 145; p. 14.
- Lockwood, M. H., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Writing and adding machine. No. 940,037; Nov. 16; Sp. p. 3486; Gaz. vol. 148; p. 602.
- Lockwood, W. D., Schenectady, N. Y. Concrete-bucket. No. 926,886; July 6; Sp. p. 377; Gaz. vol. 144; p. 61.
- Lockwood, W. S., *et al.* (See Whitcomb, J., assignor.)
- Locomotive Equipment Company. (See Kingsley, A. F., assignor.)
- Locomotive Recording Dynamometer Company. (See Park and Phillips, assignors.)
- Locomotive Tender Frame Company. (See Adams and Howard, assignors.)
- Locomotive Tender Frame Company. (See Howard, C. H., assignor.)
- Loder, H. W., New York, N. Y. Treadle mechanism. No. 916,734; Mar. 30; Sp. p. 6227; Gaz. vol. 140; p. 1115.
- Loder, J. S., assignor to Loder Smelter & Refiner Co., Reno, Nev. Gas-generator. No. 935,119; Sept. 28; Sp. p. 4326; Gaz. vol. 146; p. 772.
- Loder Smelter & Refiner Co. (See Loder, J. S., assignor.)
- Lodigiani, D., Mexico, Mexico. Obtaining strong aqueous solutions of creosote. No. 915,977; Mar. 23; Sp. p. 4774; Gaz. vol. 140; p. 844.
- Lodwig, A. C., and O. Naumann, Oxnard, Cal. Cultivator. No. 923,541; June 1; Sp. p. 942; Gaz. vol. 143; p. 146.
- Loeb, F., New York, N. Y. Buckle. No. 916,173; Mar. 23; Sp. p. 5128; Gaz. vol. 140; p. 907.
- Loeb, H., New York, N. Y. Belting. No. 939,724; Nov. 9; Sp. p. 2811; Gaz. vol. 148; p. 465.
- Loebel, F. X. (See Barwick and Brennen, assignors.)
- Loeble, G. E., New York, N. Y. Float-valve. No. 916,735; Mar. 30; Sp. p. 6228; Gaz. vol. 140; p. 1115.
- Loeffler, G., Tampa, Fla. Horseshoe. No. 940,337; Nov. 16; Sp. p. 4201; Gaz. vol. 148; p. 708.
- Loeffler, J., St. Louis, Mo. Shaper-guard. No. 925,114; June 15; Sp. p. 4312; Gaz. vol. 143; p. 734.
- Loeffler, M. (See Grasnack, K. L. W., assignor.)
- Loehler, G. G., assignor of one-half to D. P. Bush, Washington, D. C. Ventilator. No. 924,479; June 8; Sp. p. 2970; Gaz. vol. 143; p. 487.
- Loehr, E., East Pittsburg, Pa. Window-fixture. No. 925,003; June 15; Sp. p. 4102; Gaz. vol. 143; p. 697.
- Loehr, M. E., Claypool, Ind. Track-straightener. No. 910,209; Jan. 19; Sp. p. 3597; Gaz. vol. 138; p. 653.
- Loesch, C., San Francisco, Cal. Edible label for bread and the like. No. 919,736; Apr. 27; Sp. p. 5950; Gaz. vol. 141; p. 1021.
- Loesch, C., and C. Böhme, San Francisco, Cal. Dough-molding machine. No. 912,695; Feb. 16; Sp. p. 3463; Gaz. vol. 139; p. 618.
- Loesser, M. P. (See Nowacke and Loesser.)
- Loetzer, C. E., Sayre, Pa. Hose-coupling. No. 919,444; Apr. 27; Sp. p. 5333; Gaz. vol. 141; p. 922.
- Loev, F., Hamburg, Germany. Door-bolt. No. 924,081; June 8; Sp. p. 2124; Gaz. vol. 143; p. 354.
- Loeven, W., Chicago, Ill. Plumb-bob. No. 922,171; May 18; Sp. p. 4253; Gaz. vol. 142; p. 744.
- Loew Manufacturing Company. (See Lawrence, G. R., assignor.)
- Loewenbach, O., assignor to B. Loewenbach & Son, Milwaukee, Wis. Manifoldng apparatus. No. 933,910; Sept. 14; Sp. p. 1940; Gaz. vol. 146; p. 319.
- Loewenbach & Son, B. (See Loewenbach, O., assignor.)
- Loewenberg, A., Indianapolis, Ind., assignor, by mesne assignments, to W. Meyer, Chicago, Ill. Screw-driver. No. 925,115; June 15; Sp. p. 4313; Gaz. vol. 143; p. 734.
- Loewenthal, E. M., Rockaway, N. J. Watch-guard. No. 936,002; Oct. 5; Sp. p. 853; Gaz. vol. 147; p. 128.
- Loewer, H. F., Rochester, N. Y. Heel-trimmer for lasts. No. 916,569; Mar. 30; Sp. p. 5931; Gaz. vol. 140; p. 1064.
- Loewer, H. F., Rochester, N. Y. Second-lasting machine. No. 931,443; Aug. 17; Sp. p. 3849; Gaz. vol. 145; p. 664.
- Loewer, H. F., Rochester, N. Y. Locking-last. No. 933,041; Aug. 31; Sp. p. 7182; Gaz. vol. 145; p. 1233.
- Loewer, H. F., Rochester, N. Y. Last. No. 941,373; Nov. 30; Sp. p. 6455; Gaz. vol. 148; p. 1099.
- Loewer, H. F., and F. W. Kittlinger, Rochester, N. Y. Last. No. 933,087; Sept. 7; Sp. p. 102; Gaz. vol. 146; p. 17.
- Löffelholz, J., Sterkade, assignor to Gutehoffnungshütte, Aktienverein für Bergbau und Hüttenbetrieb, Oberhausen II, Germany. Pneumatic floating dock. No. 916,736; Mar. 30; Sp. p. 6230; Gaz. vol. 140; p. 1115.
- Löffler, S., Witkowitz, Austria-Hungary. Valve-operating mechanism for internal-combustion engines. No. 928,390; July 20; Sp. p. 3526; Gaz. vol. 144; p. 623.

*Alphabetical list of patentees—Continued.*

- Lofton, H. M., Atlanta, Ga. Sawmill-dog. No. 912,696; Feb. 16; Sp. p. 3465; Gaz. vol. 139; p. 618.  
 Lofton, H. M., Atlanta, Ga. Set-works for sawmills. No. 915,198; Mar. 16; Sp. p. 3210; Gaz. vol. 140; p. 561.  
 Loftus, J., Albany, N. Y. Arch for fire-boxes of locomotives, &c. No. 942,575; Dec. 7; Sp. p. 1139; Gaz. vol. 149; p. 185.  
 Loftus, L. F., Knoxville, assignor of one-third to C. R. MacCann and one-third to J. Sorlin, Allegheny county, Pa. Explosive-engine. No. 944,340; Dec. 28; Sp. p. 4940; Gaz. vol. 149; p. 871.  
 Loftus, M., Chicago, Ill. Non-refillable bottle. No. 920,590; May 4; Sp. p. 1010; Gaz. vol. 142; p. 164.  
 Logan, C. E., and A. R. Barnett, Mill Grove, Mo. Automatic device for attaching and releasing plow-points. No. 941,933; Nov. 30; Sp. p. 7556; Gaz. vol. 148; p. 1289.  
 Logan, C. F., Big Island, Va. Apparatus for recovering alkali. No. 910,074; Jan. 19; Sp. p. 3301; Gaz. vol. 138; p. 609.  
 Logan, H. T., Erith, England. Mechanical piano-player. No. 910,932; Jan. 26; Sp. p. 5098; Gaz. vol. 138; p. 919.  
 Logan, J. F., Newark, N. J. Self-adjusting platform. No. 937,375; Oct. 19; Sp. p. 3695; Gaz. vol. 147; p. 635.  
 Logan, J. R., Fresno, Cal. Handle-bar for bicycles. No. 938,255; Oct. 26; Sp. p. 5560; Gaz. vol. 147; p. 950.  
 Logan, L. D., Cherryvale, Kans. Gravity-conveyer. No. 935,669; Oct. 5; Sp. p. 96; Gaz. vol. 147; p. 17.  
 Logan, R., Lisbon, N. Y. Swing-stanchion. No. 927,562; July 13; Sp. p. 1756; Gaz. vol. 144; p. 314.  
 Logan, W. C., Headen, Ga. Screen. No. 914,293; Mar. 2; Sp. p. 1360; Gaz. vol. 140; p. 211.  
 Logan, W. L., Coila, Miss. Automatic adjustable cultivator. No. 938,391; Oct. 26; Sp. p. 5873; Gaz. vol. 147; p. 996.  
 Logan, W. S., Douglas, Wyo. Railroad-tie. No. 917,628; Apr. 6; Sp. p. 1297; Gaz. vol. 141; p. 229.  
 Logar, B., *et al.* (See Logar, M., assignor.)  
 Logar, M., assignor of one-fourth to J. A. Strand, and one-half to B. Logar, Chicago, Ill. Motor. No. 910,005; Jan. 19; Sp. p. 3171; Gaz. vol. 138; p. 526.  
 Logsdon, A., assignor to Perry Curtain Hanger Co., Perry, Iowa. Window curtain and shade holder. No. 913,019; Feb. 23; Sp. p. 4122; Gaz. vol. 139; p. 748.  
 Logue, F. (See Cavileer, W. N., assignor.)  
 Loguin, A. J. (See Steen and Loguin.)  
 Lohman, A., assignor to W. W. Gibbs, Philadelphia, Pa. Ozonizer. No. 919,445; Apr. 27; Sp. p. 5335; Gaz. vol. 141; p. 922.  
 Lohman, F., Los Angeles, Cal. Tank-valve. No. 921,131; May 11; Sp. p. 2114; Gaz. vol. 142; p. 372.  
 Lohman, G. W., Berwick, Pa. Box-freight-car door. No. 926,067; June 22; Sp. p. 6234; Gaz. vol. 143; p. 1075.  
 Lohmann, A. (See Benjaminswitsch, W., assignor.)  
 Lohr, R., Nutley, and C. Berglund, East Orange, N. J. Piano-action. No. 912,008; Feb. 9; Sp. p. 2024; Gaz. vol. 139; p. 352.  
 Lohrer, W. B., *et al.* (See Daniel, T. J., assignor.)  
 Lohsland, E., Chicago, Ill., assignor to American Can Company, New York, N. Y. Stovepipe. No. 927,253; July 6; Sp. p. 1143; Gaz. vol. 144; p. 186.  
 Lomas, J., Southbridge, Tasmania, Australia. Apparatus for grading apples and such like fruit. No. 944,887; Dec. 28; Sp. p. 6159; Gaz. vol. 149; p. 1060.  
 Lombard, C. E., East Wilton, Me. Spinning and twisting machine. No. 937,450; Oct. 19; Sp. p. 3881; Gaz. vol. 147; p. 660.  
 Lombard, E. J., Hudson, Wis. Curtain-fastener. No. 928,677; July 20; Sp. p. 4111; Gaz. vol. 144; p. 716.  
 Lombard, F. H., assignor of one-half to S. O. Boyd, Dongola, Ill. Fire-escape. No. 926,342; June 29; Sp. p. 6820; Gaz. vol. 143; p. 1200.  
 Lombard Governor Company. (See Warren, H. E., assignor.)  
 Lombard, N., Akron, Ohio. Washing-machine. No. 944,736; Dec. 28; Sp. p. 5836; Gaz. vol. 149; p. 1008.  
 Lombard, N., Akron, Ohio. Vacuum massage-machine. No. 944,737; Dec. 28; Sp. p. 5838; Gaz. vol. 149; p. 1008.  
 Lombardi, T., Portvua, Pa. Polisher for rolls. No. 921,549; May 11; Sp. p. 2981; Gaz. vol. 142; p. 512.  
 Lombardo, R., Genoa, Italy. Syringe for hypodermic and intramuscular injections. No. 938,597; Nov. 2; Sp. p. 355; Gaz. vol. 148; p. 53.  
 Lommel, W., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Gallocyanin dye and making. No. 936,247; Oct. 5; Sp. p. 1330; Gaz. vol. 147; p. 205.  
 Lommel, W., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Gallocyanin dye and making same. No. 936,248; Oct. 5; Sp. p. 1332; Gaz. vol. 147; p. 205.  
 Londelius, C. A., Chicago, Ill. Brick-anchor. No. 927,563; July 13; Sp. p. 1758; Gaz. vol. 144; p. 314.  
 Londick, C. (See Burgett and Londick.)  
 London, A. L., Pittsburg, Pa. Trousers-clasp. No. 924,802; June 15; Sp. p. 3672; Gaz. vol. 143; p. 629.  
 London Electric Firm. (See Wunderlich, A., assignor.)  
 London, J. A. (See London, R. J. and J. A.)  
 London, R. J. and J. A., Fredericktown, Mo. Magazine plate-holder for photographic cameras. No. 926,662; June 29; Sp. p. 7405; Gaz. vol. 143; p. 1306.  
 London, W. J. A., Edgewood Park, Pa., assignor to Westinghouse Machine Company. Elastic-fluid turbine. No. 943,359; Dec. 14; Sp. p. 2857; Gaz. vol. 149; p. 481.  
 Loneragan, A., New York, N. Y. Electric program-indicator. No. 920,163; May 4; Sp. p. 137; Gaz. vol. 142; p. 22.  
 Loney, A. B., Sylva, Kans. Oil-pump. No. 915,453; Mar. 16; Sp. p. 3705; Gaz. vol. 140; p. 643.  
 Long, A. B., Carthage, Mo. Railway-switch. No. 927,564; July 13; Sp. p. 1759; Gaz. vol. 144; p. 314.  
 Long, A. A., assignor to Long & Mann Co., Rochester, N. Y. Fountain-brush. No. 933,477; Sept. 7; Sp. p. 1059; Gaz. vol. 146; p. 153.  
 Long, A. A., assignor to Long & Mann Company, Rochester, N. Y. Fire-adjuster. No. 927,254; July 6; Sp. p. 1145; Gaz. vol. 144; p. 186.  
 Long, A. C., Dennd, Ky. Feavey. No. 919,044; Apr. 20; Sp. p. 4331; Gaz. vol. 141; p. 756.  
 Long, A. H. (See Daley, Long, and Maltbie.)  
 Long, A. H., Roland, N. Y. Signaling device for doors. No. 924,803; June 15; Sp. p. 3673; Gaz. vol. 143; p. 629.  
 Long & Allstatter Company. (See Macbeth, C. E., assignor.)  
 Long & Allstatter Company. (See Macbeth and Stiening, assignors.)  
 Long Arm System Company. (See Weaver, R. B., assignor.)  
 Long, B. (See Dailey and Long.)  
 Long, C. (See Kyle and Long.)  
 Long, C. E. (See Long, F. R. and C. E.)  
 Long, C. F. (See Cochran and Long.)  
 Long, C. M., Newport, Pa. Churn. No. 935,377; Sept. 28; Sp. p. 4832; Gaz. vol. 146; p. 855.  
 Long, C. O. (See Heatherington and Long.)  
 Long, C. S., Aurora, Ill. Machine for molding bases upon fence-posts. No. 912,249; Feb. 9; Sp. p. 2478; Gaz. vol. 139; p. 427.  
 Long, C. W. (See Reineohl and Long.)  
 Long, D. H., administrator. (See Long and Milligan.)  
 Long Distance Telephone Manufacturing Co. (See Johnson and Long, assignors.)  
 Long, E. A. (See Johnson and Long.)  
 Long, E. H. (See Welker and Long.)  
 Long, E. H., Los Angeles, Cal. Telephone-mouthpiece. No. 943,946; Dec. 21; Sp. p. 4116; Gaz. vol. 149; p. 713.  
 Long, E. M., assignor to Standard Optical Company, Geneva, N. Y. Machine for grinding the surfaces of lenses. No. 940,978; Nov. 23; Sp. p. 5589; Gaz. vol. 148; p. 946.  
 Long, F. A. and N. C., Washington, Iowa. Wagon-tongue. No. 924,480; June 8; Sp. p. 2971; Gaz. vol. 143; p. 487.  
 Long, F. B., Los Angeles, Cal. Sounding-board for pianos. No. 936,789; Oct. 12; Sp. p. 2485; Gaz. vol. 147; p. 414.  
 Long, F. B., and E. A. Tappe, Los Angeles, Cal. Self-playing piano. No. 936,788; Oct. 12; Sp. p. 2484; Gaz. vol. 147; p. 414.  
 Long, F. E., St. Joseph, Mo. Self-feeder match-sale. No. 912,697; Feb. 16; Sp. p. 3469; Gaz. vol. 139; p. 619.  
 Long, F. R., Milton, and C. E. Long, Williamsport, assignors to American Forged Nut Company, Bloomsburg, Pa. Nut-making machine. No. 938,598; Nov. 2; Sp. p. 356; Gaz. vol. 148; p. 53.  
 Long, F. R. and C. E., Williamsport, assignors to American Forged Nut Company, Bloomsburg, Pa. Nut-making machine. No. 938,599; Nov. 2; Sp. p. 360; Gaz. vol. 148; p. 53.  
 Long, G. A., assignor to Gray Telephone Pay Station Company, Hartford, Conn. Compound chute. No. 912,389; Feb. 16; Sp. p. 2821; Gaz. vol. 139; p. 513.  
 Long, G. A., assignor to Gray Telephone Pay Station Company, Hartford, Conn. Fraud-preventing device. No. 917,629; Apr. 6; Sp. p. 1298; Gaz. vol. 141; p. 229.  
 Long, G. A., assignor to Gray Telephone Pay Station Company, Hartford, Conn. Telephone pay-station. No. 917,742; Apr. 6; Sp. p. 1517; Gaz. vol. 141; p. 266.  
 Long, G. A., assignor to Gray Telephone Pay Station Company, Hartford, Conn. Coin-controlled apparatus. No. 932,036; Aug. 24; Sp. p. 5136; Gaz. vol. 145; p. 877.  
 Long, G. A., assignor to Gray Telephone Pay Station Company, Hartford, Conn. Coin-controlled apparatus. No. 932,403; Aug. 24; Sp. p. 5848; Gaz. vol. 145; p. 998.  
 Long, G. A., assignor to Gray Telephone Pay Station Company, Hartford, Conn. Coin-controlled apparatus. No. 932,404; Aug. 24; Sp. p. 5850; Gaz. vol. 145; p. 999.



*Alphabetical list of patentees—Continued.*

- Long, G. W., and E. Ottdys, Lindsay, Okla. Cotton-marker for bales. No. 936,918; Oct. 12; Sp. p. 2741; Gaz. vol. 147; p. 458.
- Long, H. A., Eureka, Cal. Serial igniter for gas-engines. No. 917,780; Apr. 13; Sp. p. 1645; Gaz. vol. 141; p. 305.
- Long, I. H., deceased, and S. A. Milligan, Louisville, Ky.; D. H. Long administrator of said I. H. Long. Core-arbor. No. 918,564; Apr. 20; Sp. p. 3267; Gaz. vol. 141; p. 595.
- Long, I. N., Marshalltown, Iowa. Conveyor for ditching-machines. No. 912,390; Feb. 16; Sp. p. 2823; Gaz. vol. 139; p. 513.
- Long, J., *et al.* (See Judd, W., assignor.)
- Long, J. A., Roseburg, Oreg. Hame-fastening. No. 921,616; May 11; Sp. p. 3125; Gaz. vol. 142; p. 534.
- Long, J. A., Portland, Oreg., assignor of one-third to E. E. Boggess. Belt-shifter. No. 942,384; Dec. 7; Sp. p. 733; Gaz. vol. 149; p. 119.
- Long, J. B., (See Todd, F., assignor.)
- Long, J. H., Jacksonville, Ill. Wheel attachment for dragging logs and heavy loads. No. 925,780; June 22; Sp. p. 5648; Gaz. vol. 143; p. 980.
- Long, J. J., *et al.* (See Sanders, R. L., assignor.)
- Long, J. J., Norfolk, Va. Door-operating device for elevators. No. 917,880; Apr. 13; Sp. p. 1849; Gaz. vol. 141; p. 337.
- Long, J. M., Los Angeles, Cal. Device for preventing accidents on railways. No. 916,342; Mar. 23; Sp. p. 5429; Gaz. vol. 140; p. 964.
- Long, J. M., Los Angeles, Cal. Device for controlling air-brakes of railway-vehicles and electromotive engines. No. 916,737; Mar. 30; Sp. p. 6281; Gaz. vol. 140; p. 1115.
- Long, J. M., Los Angeles, Cal. Relay. No. 930,552; Aug. 10; Sp. p. 1914; Gaz. vol. 145; p. 337.
- Long, L. S., New Castle, Pa. Smoke-bell support. No. 920,164; May 4; Sp. p. 138; Gaz. vol. 142; p. 22.
- Long, M. C., Newton township, Buchanan county, Iowa. Letter and parcel holder. No. 918,340; Apr. 13; Sp. p. 2799; Gaz. vol. 141; p. 495.
- Long, M. T., Helena, Okla. Vehicle-wheel. No. 918,756; Apr. 20; Sp. p. 3732; Gaz. vol. 141; p. 662.
- Long, M. W. (See Reineohel and Long.)
- Long, M. W., Harrisburg, assignor to Pennsylvania Steel Company, Philadelphia, Pa. Railroad-switch. No. 925,712; June 22; Sp. p. 5482; Gaz. vol. 143; p. 956.
- Long & Mann Company. (See Long, A. A., assignor.)
- Long, N. C. (See Long, F. A. and N. C.)
- Long, N. G., Elberton, Ga. Vehicle-wheel. No. 911,826; Feb. 9; Sp. p. 1571; Gaz. vol. 139; p. 292.
- Long, O. W., *et al.* (See Jordan, W. A., assignor.)
- Long, R. W. (See Buress, G., assignor.)
- Long, W. L., Marion, Ind. Flash-light attachment for guns. No. 944,449; Dec. 28; Sp. p. 5186; Gaz. vol. 149; p. 909.
- Long, W. N., Eugene, Oreg. Float-valve for flushing-tanks. No. 912,009; Feb. 9; Sp. p. 2025; Gaz. vol. 139; p. 352.
- Long, W. N., Eugene, Oreg. Valve. No. 942,576; Dec. 7; Sp. p. 1142; Gaz. vol. 149; p. 185.
- Long, W. R., assignor to C. G. Tredway, St. Louis, Mo. Composition for coating receptacles. No. 931,324; Aug. 17; Sp. p. 3611; Gaz. vol. 145; p. 623.
- Long, W. T., Sumner, Wash. Elevator. No. 935,378; Sept. 28; Sp. p. 4834; Gaz. vol. 146; p. 855.
- Long, W. T., Sumner, Wash. Record-holder. No. 935,379; Sept. 28; Sp. p. 4838; Gaz. vol. 146; p. 855.
- Longdin, T., Ruabon, Denbigh, assignor of one-half to G. Sonnenenthal, London, England. Stud-wrench. No. 909,101; Jan. 5; Sp. p. 1373; Gaz. vol. 138; p. 220.
- Longenecker, H. C., and J. C. Protzman, Verona, Ohio. Pump-operating mechanism. No. 927,365; July 6; Sp. p. 1324; Gaz. vol. 144; p. 220.
- Longfellow, C. F., St. Louis, Mo. Waste and overflow for basins, tubs, and the like. No. 937,079; Oct. 19; Sp. p. 3068; Gaz. vol. 147; p. 539.
- Longfellow, M. H., Portsmouth, Ohio. Packing-box. No. 908,628; Jan. 12; Sp. p. 2415; Gaz. vol. 138; p. 427.
- Longhurst, H. A. (See Holbojorns and Longhurst.)
- Longmire, E. A., assignor of one-half to E. C. Hathaway, Norfolk, Va. Device for sanding tracks. No. 931,444; Aug. 17; Sp. p. 3851; Gaz. vol. 145; p. 664.
- Longo, F. (See Owens, W. J., assignor.)
- Longoria, E., Monterey, Mexico. Telegraph-repeater. No. 926,663; June 29; Sp. p. 7410; Gaz. vol. 143; p. 1307.
- Longstreet, F. R., Gainesville, Ga. Window-shade. No. 926,200; June 29; Sp. p. 6535; Gaz. vol. 143; p. 1156.
- Longstreet, J. E., Youngstown, Ohio. Flushing apparatus. No. 914,587; Mar. 9; Sp. p. 1959; Gaz. vol. 140; p. 324.
- Longtine, R. V., Los Angeles, Cal. Clock-dial. No. 908,786; Jan. 5; Sp. p. 744; Gaz. vol. 138; p. 117.
- Longwell, C. A., Pittsburg, Pa. Discount-machine. No. 914,056; Mar. 2; Sp. p. 866; Gaz. vol. 140; p. 134.
- Lonnerech, C. B., *et al.* (See Bane and Crane, assignors.)
- Lonsdale, A. W., Bedford, England. Pneumatic relay for automatic musical instruments. No. 944,798; Dec. 28; Sp. p. 5966; Gaz. vol. 149; p. 1029.
- Looby, R. L., New York, N. Y. Carbureter. No. 916,465; Mar. 30; Sp. p. 5712; Gaz. vol. 140; p. 1031.
- Loockeker, C. A., Arispe, Iowa. Corn-replanter. No. 935,528; Sept. 28; Sp. p. 5142; Gaz. vol. 146; p. 904.
- Loockerman, C. A., Crisfield, Md. Shipping-box. No. 934,327; Sept. 14; Sp. p. 2746; Gaz. vol. 146; p. 456.
- Lood, J., Montreal, Quebec, Canada. Potato-harvester. No. 936,333; Oct. 12; Sp. p. 1507; Gaz. vol. 147; p. 260.
- Look, A., Vineyard Haven, Mass. Banana-carrier. No. 911,508; Feb. 2; Sp. p. 919; Gaz. vol. 139; p. 161.
- Look, J. C., San Mateo, Cal. Mop and brush holder. No. 923,282; June 1; Sp. p. 396; Gaz. vol. 143; p. 56.
- Loomer, N. F., Letellier, Manitoba, Canada. Boat-propelling device. No. 923,283; June 1; Sp. p. 397; Gaz. vol. 143; p. 56.
- Loomis, A., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 935,211; Sept. 28; Sp. p. 4501; Gaz. vol. 146; p. 800.
- Loomis, A. H., Ravenna, Ohio. Ladder. No. 914,436; Mar. 9; Sp. p. 1660; Gaz. vol. 140; p. 284.
- Loomis, B., Hartford, Conn. Apparatus for manufacturing gas. No. 939,282; Nov. 9; Sp. p. 1811; Gaz. vol. 148; p. 313.
- Loomis, B., Hartford, Conn., and H. Pettibone, New Rochelle, assignors to Power and Mining Machinery Company, New York, N. Y. Apparatus for manufacturing and mixing gases. No. 912,698; Feb. 16; Sp. p. 3471; Gaz. vol. 139; p. 619.
- Loomis, B., Hartford, Conn., and H. Pettibone, New Rochelle, assignors to Power and Mining Machinery Company, New York, N. Y. Making and delivering mixed gases to gas-engines. No. 912,699; Feb. 16; Sp. p. 3475; Gaz. vol. 139; p. 620.
- Loomis, B., Hartford, Conn., and H. Pettibone, New Rochelle, N. Y., assignors to Power and Mining Machinery Company. Manufacturing gas from wood. No. 927,418; July 6; Sp. p. 1437; Gaz. vol. 144; p. 238.
- Loomis, D. P., New Philadelphia, assignor of one-half to J. A. Beidler, Cleveland, Ohio. Mining coal. No. 935,762; Oct. 5; Sp. p. 297; Gaz. vol. 147; p. 47.
- Loomis, E. A., Chicago, Ill. Umbrella. No. 914,662; Mar. 9; Sp. p. 2100; Gaz. vol. 140; p. 357.
- Loomis, E. J., and J. I. Woglum, Sherrill, N. Y. Hay-tedder. No. 919,045; Apr. 20; Sp. p. 4333; Gaz. vol. 141; p. 756.
- Loomis, L. G., and P. I. Tuttle, Inglewood, Cal. Lawn-sprinkler. No. 919,737; Apr. 27; Sp. p. 5950; Gaz. vol. 141; p. 1021.
- Loomis, S. C., Chicago, Ill. Safety holder or receptacle for bottles, packages, and the like. No. 925,586; June 22; Sp. p. 5210; Gaz. vol. 143; p. 917.
- Loomis, W. A., Ilion, N. Y. Automatic speed-controller. No. 940,979; Nov. 23; Sp. p. 5593; Gaz. vol. 148; p. 947.
- Loomis, W. A., Ilion, assignor of two-thirds to R. G. Starkweather, Jordanville, N. Y. Apparatus for handling mail-pouches. No. 913,665; Feb. 23; Sp. p. 5479; Gaz. vol. 139; p. 965.
- Loomis, W. A., Ilion, assignor of two-thirds to R. G. Starkweather, Jordanville, N. Y. Mail collecting and delivering apparatus. No. 919,290; Apr. 20; Sp. p. 4983; Gaz. vol. 141; p. 835.
- Loop, J. Z., Philadelphia, Pa., and G. R. J. Newman, Washington, D. C. Stock-feeder. No. 940,540; Nov. 16; Sp. p. 4658; Gaz. vol. 148; p. 776.
- Loos, F., Meierhöfen, near Carlsbad, assignor of one-half to A. Gottl, Fischern, near Carlsbad, Austria-Hungary. Apparatus for regulating and controlling the speed of motor-vehicles. No. 927,865; July 13; Sp. p. 2423; Gaz. vol. 144; p. 414.
- Loose, W., Bremen, Germany. Medicament for diseases of the mucous membrane. No. 944,738; Dec. 28; Sp. p. 5841; Gaz. vol. 149; p. 1009.
- Loper, W. A., Dansville, N. Y. Window-screen. No. 928,526; July 20; Sp. p. 3798; Gaz. vol. 144; p. 666.
- Lopp, W. H., San Francisco, Cal. Shaving-brush. No. 927,565; July 13; Sp. p. 1762; Gaz. vol. 144; p. 315.
- Lorain Steel Company. (See Brown, W. M., assignor.)
- Lorain Steel Company. (See Nather, F., assignor.)
- Lorch, E. P., New York, N. Y. Power-scoop. No. 925,817; June 22; Sp. p. 5725; Gaz. vol. 143; p. 992.
- Lord, C. E., Norwood, Ohio, assignor to Allis-Chalmers Company. Dynamo-electric machine of the inclosed type. No. 908,686; Jan. 5; Sp. p. 543; Gaz. vol. 138; p. 84.
- Lord, C. E., Norwood, Ohio, assignor to Allis-Chalmers Company. Controller-regulator. No. 922,172; May 18; Sp. p. 4254; Gaz. vol. 142; p. 744.
- Lord, C. E., Norwood, Ohio, assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 922,924; May 25; Sp. p. 5840; Gaz. vol. 142; p. 1019.
- Lord, C. E., Norwood, Ohio, assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 923,673; June 1; Sp. p. 1235; Gaz. vol. 143; p. 191.
- Lord Electric Company. (See Cosper, W. P., assignor.)
- Lord Electric Company. (See Cosper and Johnson, assignors.)
- Lord, F. W. (See Erickson and Lord.)

*Alphabetical list of patentees—Continued.*

- Lord, F. W., and F. W. Erickson, New York, N. Y. Current-interrupter for electric circuits. No. 932,481; Aug. 31; Sp. p. 6033; Gaz. vol. 145; p. 1047.
- Lord, H. C. (See Fulford, E. D.)
- Lord, H. C. (See Lippold and Lord.)
- Lord, J. S., Ogden, Iowa. Reclining-seat for automobiles. No. 927,566; July 13; Sp. p. 1763; Gaz. vol. 144; p. 315.
- Lord, L. L. (See Hazlet and Lord.)
- Lord, T. H., Altoona, Pa. Switch-operating device. No. 916,738; Mar. 30; Sp. p. 6234; Gaz. vol. 140; p. 1116.
- Lord, W. S., *et al.* (See Barrett, R., assignor.)
- Lore, R. J., Rockville, assignor of one-fourth to J. H. Davis, Judson, and one-fourth to E. Davis, Rockville, Ind. Powder-keg. No. 918,875; Apr. 20; Sp. p. 3989; Gaz. vol. 141; p. 701.
- Lorenz, W., Baltimore, Md. Shoestring-holder. No. 916,323; Apr. 6; Sp. p. 758; Gaz. vol. 141; p. 129.
- Lorenz, W., Karlsruhe, assignor to Daimler Motoren-Gesellschaft, Untertürkheim, Germany. Driving mechanism for motor road-wheels. No. 915,367; Mar. 16; Sp. p. 3525; Gaz. vol. 140; p. 615.
- Lorenz, W. A., assignor of one-fourth to himself, one-fourth to W. H. Honiss, Hartford, Conn., and one-half to Beech-Nut Packing Company, Canajoharie, N. Y. Manufacture of gaskets. No. 929,679; Aug. 3; Sp. p. 75; Gaz. vol. 145; p. 15.
- Lorenz, W. A., Hartford, Conn., assignor of one-half to Beech-Nut Packing Company, Canajoharie, N. Y., and one-fourth to W. H. Honiss, Hartford, Conn. Gasket and its manufacture. No. 930,297; Aug. 3; Sp. p. 1365; Gaz. vol. 145; p. 226.
- Lorenz, W. A., Hartford, Conn., assignor of one-half to Beech-Nut Packing Company, Canajoharie, N. Y., one-fourth to himself, and one-fourth to W. H. Honiss, Hartford, Conn. Hermetic closure. No. 930,298; Aug. 3; Sp. p. 1367; Gaz. vol. 145; p. 227.
- Lorenz, W. A., Hartford, Conn., assignor of one-half to Beech-Nut Packing Company, Canajoharie, N. Y., and one-fourth to W. H. Honiss, Hartford, Conn. Jar-tray. No. 938,675; Nov. 2; Sp. p. 513; Gaz. vol. 148; p. 78.
- Lorenzen, J., assignor to H. Clauss, Fremont, Ohio. Stropping-machine. No. 919,738; Apr. 27; Sp. p. 5953; Gaz. vol. 141; p. 1022.
- Lorenzen, J., assignor to H. Clauss, Fremont, Ohio. Stropping-machine. No. 943,311; Dec. 14; Sp. p. 2746; Gaz. vol. 149; p. 464.
- Lorétan, H. (See Bierer and Lorétan.)
- Lorgion, J. C. (See Sprowles and Lorgion.)
- Loring, B. C., Edgewood, assignor to J. Tillinghast, trustee, Providence, R. I. Sanding device. No. 913,830; Mar. 2; Sp. p. 310; Gaz. vol. 140; p. 54.
- Loring, E. J., Somerville, Mass. Adjustable device for yieldingly holding beveled gears. No. 937,831; Oct. 26; Sp. p. 4654; Gaz. vol. 147; p. 805.
- Lortz, E. A. (See Schirra, J., assignor.)
- Lory, C., New Windsor, and C. A. Lory, Fort Collins, Colo. Water-meter. No. 918,176; Apr. 13; Sp. p. 2458; Gaz. vol. 141; p. 440.
- Lory, C. A. (See Lory, C., and C. A.)
- Lose, W. H. (See Danver and Lose.)
- Lose, W. H., Zelenople, assignor to Iron City Sanitary Manufacturing Company, Pittsburg, Pa. Leg for bath-tubs. No. 918,341; Apr. 13; Sp. p. 2800; Gaz. vol. 141; p. 495.
- Lose, W. H., Zelenople, assignor to Iron City Sanitary Manufacturing Company, Pittsburg, Pa. Apparatus for forming cored openings. No. 918,342; Apr. 13; Sp. p. 2801; Gaz. vol. 141; p. 495.
- Lose, W. H., Zelenople, assignor to Iron City Sanitary Manufacturing Company, Pittsburg, Pa. Leg for bath-tubs. No. 938,066; Oct. 26; Sp. p. 5150; Gaz. vol. 147; p. 885.
- Lose, W. H., Zelenople, assignor to Iron City Sanitary Manufacturing Company, Pittsburg, Pa. Leg attachment for lavatories and other fixtures. No. 938,157; Oct. 26; Sp. p. 5363; Gaz. vol. 147; p. 915.
- Loser, H. A., West Lafayette, Ind. Apparatus and process for molding concrete forms. No. 937,620; Oct. 19; Sp. p. 4218; Gaz. vol. 147; p. 718.
- Losey, N., Indianapolis, Ind. Photographic light-diffusing apparatus. No. 923,542; June 1; Sp. p. 945; Gaz. vol. 143; p. 147.
- Loshbough, A. W., Detroit, assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Folding carriage. No. 927,567; July 13; Sp. p. 1764; Gaz. vol. 144; p. 315.
- Loshbough, A. W., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Folding baby-carriage. No. 941,374; Nov. 30; Sp. p. 6456; Gaz. vol. 148; p. 1099.
- Loshbough, A. W., assignor to Automatic Seal Company, Detroit, Mich. Seal. No. 943,834; Dec. 21; Sp. p. 3874; Gaz. vol. 149; p. 674.
- Loskamp, H. K., Rockville Center, N. Y. Barrel-support. No. 921,855; May 18; Sp. p. 3647; Gaz. vol. 142; p. 642.
- Losonczy, G., Lakewood, Ohio. Coaster. No. 932,303; Aug. 24; Sp. p. 5666; Gaz. vol. 145; p. 966.
- Lothian, I. A. (See Jackson, C. W., assignor.)
- Lothrop, F. B., South Acton, Mass. Protector for carboys. No. 939,283; Nov. 9; Sp. p. 1814; Gaz. vol. 148; p. 313.
- Lothrop, F. C., assignor to S. A. Eastman Company, Millford, Mass. Machine for applying bindings to sheets of material. No. 937,313; Oct. 19; Sp. p. 3559; Gaz. vol. 147; p. 615.
- Lothrop, T. M., and G. D. Bradshaw, Joliet, Ill. Superheat-gage. No. 943,260; Dec. 14; Sp. p. 2639; Gaz. vol. 149; p. 447.
- Lotstrom, A. E., Edmonds, Wash. Automatic moistening device for brooms. No. 924,253; June 8; Sp. p. 2537; Gaz. vol. 143; p. 413.
- Lott A. G., Camden, Tex. Lumber-dolly. No. 929,680; Aug. 3; Sp. p. 77; Gaz. vol. 145; p. 15.
- Lott, J. C., Columbia, S. C. Gear-casing for motor vehicles. No. 935,036; Sept. 28; Sp. p. 4142; Gaz. vol. 146; p. 742.
- Lott, W. E. (See West, Masters, and Lott.)
- Lott, W. F., Newark, N. J., assignor to Rubber & Celluloid Harness Trimming Co. Belt. No. 943,228; Dec. 14; Sp. p. 2571; Gaz. vol. 149; p. 436.
- Lotz, H. F. (See Fisher, F., assignor.)
- Lotze, G., New York, N. Y. Dust-pan. No. 944,490; Dec. 28; Sp. p. 5292; Gaz. vol. 149; p. 923.
- Loubrie, P. M. M., Bordeaux, France. Hat-guard. No. 921,856; May 18; Sp. p. 3648; Gaz. vol. 142; p. 643.
- Loucks, A. (See Baker, Loucks, and Clark, assignors.)
- Loucks, E. W. (See McCurdy, W. H., assignor.)
- Loucks, G. H., Chicago, Ill. Amalgamator. No. 920,880; May 4; Sp. p. 1613; Gaz. vol. 142; p. 257.
- Loucks, M. (See Baker, Loucks, and Clark.)
- Loud, H. S., New York, N. Y., and J. Panter, Stretford, Manchester, England, assignors to Westinghouse Machine Company. Turbine-blade. No. 941,375; Nov. 30; Sp. p. 6461; Gaz. vol. 148; p. 1100.
- Louden, W. (See Neiler and Loudon.)
- Louden, W., Fairfield, Iowa. Lawn-trimmer. No. 930,396; Aug. 10; Sp. p. 1562; Gaz. vol. 145; p. 283.
- Louden, W., Fairfield, Iowa. Load-binder. No. 930,397; Aug. 10; Sp. p. 1563; Gaz. vol. 145; p. 283.
- Loudenslager, D., Rising City, Nebr. Marker for corn-planters. No. 910,831; Jan. 26; Sp. p. 4912; Gaz. vol. 138; p. 887.
- Loudon, W. A., Chicago, Ill., assignor to General Electric Company. Turbine-controller. No. 941,426; Nov. 30; Sp. p. 6593; Gaz. vol. 148; p. 1117.
- Loufek, J., Atchison, Kans. Separating mechanism. No. 938,256; Oct. 26; Sp. p. 5561; Gaz. vol. 147; p. 950.
- Loughlin, T., New Kensington, Pa. Nut-lock. No. 940,605; Nov. 16; Sp. p. 4785; Gaz. vol. 148; p. 797.
- Loughman, G. W., *et al.* (See Stevens, C. E., assignor.)
- Loughman, G. W., deceased, South Bend, Ind.; Citizens Loan Trust & Savings Company, executor and trustee. Fabric-roll-edge protector. No. 919,607; Apr. 27; Sp. p. 5694; Gaz. vol. 141; p. 979.
- Loughman, G. W., deceased, South Bend, Ind.; Citizens Loan Trust & Savings Company, executor and trustee. Fabric-roll-edge protector. No. 919,608; Apr. 27; Sp. p. 5695; Gaz. vol. 141; p. 980.
- Loughman, G. W., deceased, South Bend, Ind.; Citizens Loan Trust & Savings Company, executor and trustee. Fabric-roll-edge protector. No. 919,739; Apr. 27; Sp. p. 5955; Gaz. vol. 141; p. 1022.
- Loughman, G. W., deceased, South Bend, Ind.; Citizens Loan Trust & Savings Company, executor and trustee. Fabric-roll-edge protector. No. 923,362; June 1; Sp. p. 581; Gaz. vol. 143; p. 83.
- Loughman, J. H., *et al.* (See Stevens, C. E., assignor.)
- Loughridge, J. H., Tyler, Tex. Saw gummer and sharpener. No. 909,916; Jan. 19; Sp. p. 2998; Gaz. vol. 138; p. 555.
- Louis, A. (See Potter and Louis.)
- Louis, A. A., Paris, France, assignor to L. B. de Laitte, London, England. Distributer for apparatus for carbureting air. No. 932,150; Aug. 24; Sp. p. 5369; Gaz. vol. 145; p. 915.
- Louis E. Marsh Company. (See Marsh, L. E., assignor.)
- Louiso, G. P., *et al.* (See Dunn, F. P., assignor.)
- Louisville Filler Company. (See Falls, J. M., assignor.)
- Louisville Filler Company. (See Falls and Williams, assignors.)
- Louisville Filler Company. (See McCampbell, L., assignor.)
- Loukota, A., Schenectady, N. Y. Folding umbrella. No. 922,925; May 25; Sp. p. 5843; Gaz. vol. 142; p. 1019.
- Louque, W. N., assignor to W. M. Wren, New Orleans, La. Pile. No. 942,653; Dec. 7; Sp. p. 1295; Gaz. vol. 149; p. 212.
- Lourie, H. M. (See Henderson and Lourie.)



*Alphabetical list of patentees—Continued.*

- Lourie, H. M., J. W. Devero, and J. C. Ford, assignors to National Machine Company, Keokuk, Iowa. Tire-setter. No. 928,264; July 20; Sp. p. 3262; Gaz. vol. 144; p. 579.
- Louthan, W. B., East Liverpool, Ohio. Pin cutting and separating machine. No. 928,206; July 13; Sp. p. 3108; Gaz. vol. 144; p. 529.
- Louviere, M., and D. Broussard, Loreauville, La. Horse-releaser. No. 911,310; Feb. 2; Sp. p. 565; Gaz. vol. 139; p. 97.
- Lovass, J., and J. Ganz, assignors of one-third to E. Goodman, Ambridge, Pa. Street-car fender. No. 919,046; Apr. 20; Sp. p. 4335; Gaz. vol. 141; p. 757.
- Love, A. L., *et al.* (See Hendricks, O. E., assignor.)
- Love, T. J., Lincoln, Ill. Stalk-cutter. No. 940,171; Nov. 16; Sp. p. 3826; Gaz. vol. 148; p. 650.
- Lovejoy, A. A., Lowell, Mass. Disintegrating and delivering magazine for travelers for ring-spinning frames. No. 917,086; Apr. 6; Sp. p. 251; Gaz. vol. 141; p. 46.
- Lovejoy, A. A., Lowell, Mass. Attachment for ring-spinning frames. No. 932,482; Aug. 31; Sp. p. 6035; Gaz. vol. 145; p. 1047.
- Lovejoy, C. C., New York, N. Y. Clothes-line hanger. No. 939,045; Nov. 2; Sp. p. 1280; Gaz. vol. 148; p. 206.
- Lovejoy, C. E., Lowell, assignor to Draper Company, Hopedale, Mass. Bobbin-holder. No. 919,899; Apr. 27; Sp. p. 6301; Gaz. vol. 141; p. 1076.
- Lovejoy, J. F., assignor of one-half to A. Stein, New York, N. Y. Producing anthracite briquets. No. 921,550; May 11; Sp. p. 2982; Gaz. vol. 142; p. 512.
- Lovekin, L. D. (See Warrington and Lovekin.)
- Lovekin, L. D., Philadelphia, Pa. Level-indicating gage. No. 925,361; June 15; Sp. p. 4760; Gaz. vol. 143; p. 813.
- Lovekin, L. D., and P. M. Young, Philadelphia, and H. Krapp, Reading, Pa. Hatch-cover and operating means therefor. No. 941,526; Nov. 30; Sp. p. 6788; Gaz. vol. 148; p. 1150.
- Lovelace, C. D., Fort Worth, Tex. Automatic gun. No. 922,173; May 18; Sp. p. 4256; Gaz. vol. 142; p. 744.
- Lovelady, E., Salmon Falls, Ore. Hay gatherer and loader. No. 922,301; May 18; Sp. p. 4528; Gaz. vol. 142; p. 786.
- Loveland, L. L., Prairieville, Mich. Rake. No. 915,978; Mar. 23; Sp. p. 4776; Gaz. vol. 140; p. 844.
- Loveland, W. A., Minneapolis, Minn. Key-fastener. No. 939,607; Nov. 9; Sp. p. 2577; Gaz. vol. 148; p. 423.
- Loveland, W. L., assignor to Allis-Chalmers Company, Milwaukee, Wis. Roasting-furnace. No. 919,197; Apr. 20; Sp. p. 4613; Gaz. vol. 141; p. 805.
- Loveless, O. A., Watersmeet, Mich. Portable lamp. No. 929,454; July 27; Sp. p. 5699; Gaz. vol. 144; p. 1000.
- Lovell, A. K., New Haven, Conn. Hook. No. 921,719; May 18; Sp. p. 3351; Gaz. vol. 142; p. 597.
- Lovell, A. W. (See Potts and Lovell.)
- Lovell, C. H., St. Louis, Mo. Game-schedule. No. 942,178; Dec. 7; Sp. p. 329; Gaz. vol. 149; p. 50.
- Lovell, E. M., Stanberry, Mo. Nut-lock. No. 925,927; June 22; Sp. p. 5959; Gaz. vol. 143; p. 1028.
- Lovell, F. W., assignor to McMyler Manufacturing Company, Cleveland, Ohio. Hoisting apparatus. No. 913,020; Feb. 23; Sp. p. 4123; Gaz. vol. 139; p. 749.
- Lovell, F. W., assignor, by mesne assignments, to McMyler Manufacturing Company, Cleveland, Ohio. Clam-shell bucket. No. 919,446; Apr. 27; Sp. p. 5337; Gaz. vol. 141; p. 922.
- Lovely, C., Webster, Mass. Hasp-fastener. No. 938,257; Oct. 26; Sp. p. 5564; Gaz. vol. 147; p. 951.
- Lövenich, F., Frankfurt-on-the-Main, Germany. Chuck. No. 917,087; Apr. 6; Sp. p. 254; Gaz. vol. 141; p. 46.
- Loveridge, F. H., assignor to Western Electric Company, Chicago, Ill. Automatic telephone-exchange selector. No. 931,072; Aug. 17; Sp. p. 3058; Gaz. vol. 145; p. 536.
- Lovett, A., Philadelphia, Pa. Clothes-wringer. No. 942,001; Nov. 30; Sp. p. 7784; Gaz. vol. 148; p. 1311.
- Lovett, C. B., Oakland, Cal. Shampoo-tray. No. 928,313; July 20; Sp. p. 3395; Gaz. vol. 144; p. 597.
- Lovett, R. S. (See Concoff and Lovett.)
- Loving, L. W., Paris, Tenn. Corner-iron for vehicle-bodies. No. 917,324; Apr. 6; Sp. p. 758; Gaz. vol. 141; p. 129.
- Low, A. A. (See Hertzberg, H., assignor.)
- Low, A. A. (See Hertzberg and Low.)
- Low, A. A. (See Hertzberg, Low, and Wassmann.)
- Low, A. A. (See Wohl and Hertzberg, assignors.)
- Low, A. A. (See Wohl and Low.)
- Low, A. A., *et al.*, trustees. (See Low, A. A., assignor.)
- Low, A. A., *et al.*, trustees. (See Wohl and Hertzberg, assignors.)
- Low, A. A., Horseshoe, N. Y. Electrically-operated starting-vaporizer for combustion-engines. No. 909,917; Jan. 19; Sp. p. 3000; Gaz. vol. 138; p. 555.
- Low, A. A., Horseshoe, N. Y. Means for supplying air to hydrocarbon-motors. No. 926,756; July 6; Sp. p. 104; Gaz. vol. 144; p. 16.
- Low, A. A., Horseshoe, N. Y. Sparking plug for hydrocarbon-motors. No. 927,255; July 6; Sp. p. 1146; Gaz. vol. 144; p. 186.
- Low, A. A., Horseshoe, N. Y. Waste-paper receptacle. No. 929,960; Aug. 3; Sp. p. 717; Gaz. vol. 145; p. 114.
- Low, A. A., Horseshoe, assignor to Auto Stopper Company, New York, N. Y. Canteen lunch-box. No. 930,202; Aug. 3; Sp. p. 1203; Gaz. vol. 145; p. 197.
- Low, A. A., assignor to A. A. Low, Horseshoe, M. J. Wohl, New York, and H. Hertzberg, Brooklyn, N. Y., trustees. Electromagnet-coil construction. No. 931,445; Aug. 17; Sp. p. 3854; Gaz. vol. 145; p. 664.
- Low, A. A., Horseshoe, and H. Hertzberg, New York, assignors to Economy Electric Company, Brooklyn, N. Y. Swivel for electrical appliances. No. 913,831; Mar. 2; Sp. p. 313; Gaz. vol. 140; p. 54.
- Low, E. M., New York, N. Y. Protractor or spacing instrument. No. 918,065; Apr. 13; Sp. p. 2247; Gaz. vol. 141; p. 404.
- Löw, J., Münster, Germany. Brass musical instrument. No. 924,250; June 8; Sp. p. 2530; Gaz. vol. 143; p. 412.
- Low, J. M., Los Angeles, Cal. Portable placer-mining apparatus. No. 932,037; Aug. 24; Sp. p. 5138; Gaz. vol. 145; p. 878.
- Low, R. H., Portland, Ore. Spark-arrester attachment. No. 911,827; Feb. 9; Sp. p. 1573; Gaz. vol. 139; p. 292.
- Lowden, T. W., London, England. Vacuum-pump. No. 943,556; Dec. 14; Sp. p. 3260; Gaz. vol. 149; p. 549.
- Lowe, A. H., and G. Stephenson, St. Louis, Mo. Force-cup. No. 915,687; Mar. 16; Sp. p. 4206; Gaz. vol. 140; p. 725.
- Lowe, A. L., Denver, Colo. Socket-lock for incandescent lamps. No. 923,284; June 1; Sp. p. 398; Gaz. vol. 143; p. 56.
- Lowe, C. E., McAlester, assignor of one-half to W. C. Ellis, Guthrie, Okla. Lubricator for handsaws. No. 915,033; Mar. 9; Sp. p. 2827; Gaz. vol. 140; p. 479.
- Lowe, C. E., McAlester, assignor of one-half to W. C. Ellis, Guthrie, Okla. Lubricator for handsaws. No. 925,437; June 15; Sp. p. 4908; Gaz. vol. 143; p. 838.
- Lowe, C. E., McAlester, assignor of one-half to W. C. Ellis, Guthrie, Okla. Lubricator for handsaws. No. 927,866; July 13; Sp. p. 2427; Gaz. vol. 144; p. 415.
- Lowe Electric Co. (See Hailey, R. L., assignor.)
- Lowe, F. J. (See Sich and Lowe.)
- Lowe, F. W. (See Sullivan, C. F., assignor.)
- Lowe, F. W., Boston, Mass. Adjustable arch-support. No. 912,584; Feb. 16; Sp. p. 3232; Gaz. vol. 139; p. 579.
- Lowe, F. W., Boston, Mass. Window-shade fixture. No. 927,306; July 6; Sp. p. 1325; Gaz. vol. 144; p. 220.
- Lowe, F. W., Boston, Mass. Wire hinge. No. 944,681; Dec. 28; Sp. p. 5704; Gaz. vol. 149; p. 989.
- Lowe, F. W., Boston, Mass. Hair-waver. No. 944,682; Dec. 28; Sp. p. 5704; Gaz. vol. 149; p. 989.
- Loye, G. S., Moine, Ill., assignor to Williams, White & Company. Machine for severing stay-bolts. No. 925,491; June 22; Sp. p. 5012; Gaz. vol. 143; p. 885.
- Lowe, J. D., *et al.* (See Cogswell, J. A., assignor.)
- Lowe, J. H., St. Jerome, Quebec, Canada. Mechanical stoker for locomotive-boilers. No. 924,364; June 8; Sp. p. 2763; Gaz. vol. 143; p. 450.
- Lowe, L. P., San Francisco, Cal. Self-inking rubber stamp. No. 917,781; Apr. 13; Sp. p. 1647; Gaz. vol. 141; p. 306.
- Lowe, R. A., Duluth, assignor of one-half to W. H. Lamson, Hincley, Minn. Dredger-head. No. 915,454; Mar. 16; Sp. p. 3706; Gaz. vol. 140; p. 644.
- Lowe, S., Bridgeport, Conn. Tool-holder. No. 938,600; Nov. 2; Sp. p. 364; Gaz. vol. 148; p. 54.
- Löwendahl, V., Stockholm, Sweden, assignor to Firm of C. Conrad, Nuremberg, Germany. Electric sliding or other contact. No. 924,804; June 15; Sp. p. 3676; Gaz. vol. 143; p. 630.
- Lowenstein, G., New York, N. Y. Lens-mounting. No. 914,149; Mar. 2; Sp. p. 1050; Gaz. vol. 140; p. 166.
- Lowenstein, H. C., Oakland, Md. Boot and shoe polishing machine. No. 939,725; Nov. 9; Sp. p. 2812; Gaz. vol. 148; p. 465.
- Lower, W. W., Tyrone, Pa. Horseshoe. No. 916,739; Mar. 30; Sp. p. 6237; Gaz. vol. 140; p. 1116.
- Lowman, J. W., Nashville, Tenn. Making fertilizing material. No. 922,494; May 25; Sp. p. 4927; Gaz. vol. 142; p. 878.
- Lowrey, F. C., assignor to Smith & Griggs Manufacturing Company, Waterbury, Conn. Pen and pencil clip. No. 923,055; May 25; Sp. p. 6106; Gaz. vol. 142; p. 1060.
- Lowrie, H. C., New York, N. Y. Wall-safe. No. 915,979; Mar. 23; Sp. p. 4777; Gaz. vol. 140; p. 844.
- Lowrie, W. W., Buffalo, N. Y. Combined garment adjuster and fastener. No. 910,554; Jan. 26; Sp. p. 4349; Gaz. vol. 138; p. 798.
- Lowry, G. A., Boston, Mass. Fabric. No. 918,683; Apr. 20; Sp. p. 3585; Gaz. vol. 141; p. 636.
- Lowry, G. G., Sherwood, Oreg. Self-dumping hay-rake. No. 943,429; Dec. 14; Sp. p. 2990; Gaz. vol. 149; p. 504.

*Alphabetical list of patentees—Continued.*

- Lowry, W. D., St. Louis, Mo. Underframe for cars and tenders. No. 922,787; May 25; Sp. p. 5542; Gaz. vol. 142; p. 973.  
 Lowry, W. D., St. Louis, Mo. Underframe for cars and tenders. No. 922,788; May 25; Sp. p. 5544; Gaz. vol. 142; p. 974.  
 Lowry, W. D., St. Louis, Mo. Underframe for cars and tenders. No. 922,789; May 25; Sp. p. 5546; Gaz. vol. 142; p. 974.  
 Lowy, E. M., New York, N. Y. Fire-escape. No. 910,006; Jan. 19; Sp. p. 3173; Gaz. vol. 138; p. 526.  
 Loy, W. C. (See Crim and Loy.)  
 Loziano, L., assignor to La Société Loziano & Finet, Paris, France. Radiator. No. 944,450; Dec. 23; Sp. p. 5188; Gaz. vol. 149; p. 910.  
 Lübbecke, W., Berlin, Germany. Compressive and tensile bar for bridges, pillars, &c. No. 908,587; Jan. 5; Sp. p. 331; Gaz. vol. 138; p. 54.  
 Lubbers, J. H., Allegheny, assignor to Window Glass Machine Company, Pittsburg, Pa. Glass-drawing apparatus. No. 914,588; Mar. 9; Sp. p. 1961; Gaz. vol. 140; p. 335.  
 Lubbers, J. H., assignor to Window Glass Machine Company, Pittsburg, Pa. Process and apparatus for drawing glass. No. 926,501; June 29; Sp. p. 7098; Gaz. vol. 143; p. 1253.  
 Lubke, A. E. G., San Francisco, Cal. Air-ship. No. 936,141; Oct. 5; Sp. p. 1144; Gaz. vol. 147; p. 173.  
 Lubricating Wheel and Roller Company. (See Jones, J. D., assignor.)  
 Lucas, A. H., Steubenville, Ohio. Measuring instrument. No. 936,731; Oct. 12; Sp. p. 2376; Gaz. vol. 147; p. 395.  
 Lucas, A. L., Slater, Mo. Hay-rack bracket. No. 913,744; Mar. 2; Sp. p. 143; Gaz. vol. 140; p. 24.  
 Lucas, A. N. (See Lucas, De Long, and Lucas.)  
 Lucas, C. O., assignor to Lucas Pump Co., Dayton, Ohio. Milk-pump. No. 940,651; Nov. 16; Sp. p. 4884; Gaz. vol. 148; p. 813.  
 Lucas, C. O., assignor to Lucas Pump Company, Dayton, Ohio. Pump. No. 944,243; Dec. 21; Sp. p. 4727; Gaz. vol. 149; p. 809.  
 Lucas, D. A., G. D. De Long, Havelock, Nebr., and A. N. Lucas, Milwaukee, Wis. Boiler-fue expander. No. 943,117; Dec. 14; Sp. p. 2355; Gaz. vol. 149; p. 399.  
 Lucas, F., Sidney, assignor to G. H. Hyland, Hamilton, Ohio. Land-anchor. No. 923,056; May 25; Sp. p. 6106; Gaz. vol. 142; p. 1060.  
 Lucas, G. A., Levallois-Perret, France. Apparatus for the bacteriological treatment of sewage and the like. No. 936,464; Oct. 12; Sp. p. 1827; Gaz. vol. 147; p. 304.  
 Lucas, G. C., Cleveland, Ohio. Railway-frog. No. 926,990; July 6; Sp. p. 580; Gaz. vol. 144; p. 96.  
 Lucas, G. C., Cleveland, Ohio. Guard-rail-securing device. No. 935,037; Sept. 28; Sp. p. 4145; Gaz. vol. 146; p. 743.  
 Lucas, H. E., Massillon, assignor of one-half to T. C. McQuate, Canton, Ohio. Gas-iron. No. 934,923; Sept. 21; Sp. p. 3915; Gaz. vol. 146; p. 679.  
 Lucas, I., Passaic, N. J. Straight-edge or ruler. No. 935,120; Sept. 28; Sp. p. 4329; Gaz. vol. 146; p. 772.  
 Lucas, L., Jamestown, N. Y. Sanding-machine. No. 916,740; Mar. 30; Sp. p. 6237; Gaz. vol. 140; p. 1116.  
 Lucas, O. D. (See Kershaw, P. B. W., assignor.)  
 Lucas, P., Bloomfield, Iowa. Necktie-holder. No. 920,595; May 4; Sp. p. 1018; Gaz. vol. 142; p. 165.  
 Lucas Pump Company. (See Lucas, C. O., assignor.)  
 Lucas, R., Blackheath, assignor to Valveless Limited, London, England. Internal-combustion engine. No. 941,376; Nov. 30; Sp. p. 6463; Gaz. vol. 148; p. 1100.  
 Lucas, W. (See Garrett and Lucas.)  
 Lucas, W. H., et al. (See Lucas, W. H., assignor.)  
 Lucas, W. H., assignor to F. F. and J. Espen, Jr., and W. H. Lucas, Philadelphia, Pa. Metal-cutting saw. No. 938,158; Oct. 26; Sp. p. 5365; Gaz. vol. 147; p. 916.  
 Lucas, W. H., assignor to F. F. and J. Espen, Jr., and W. H. Lucas, Philadelphia, Pa. Saw-tooth-grinding machine. No. 938,159; Oct. 26; Sp. p. 5366; Gaz. vol. 147; p. 916.  
 Lucas, W. P., Sharp, Ark. Wagon-body lifter. No. 923,980; June 8; Sp. p. 1943; Gaz. vol. 143; p. 323.  
 Luce, C. J., Niantic, Conn. Cotton-compress. No. 923,190; June 1; Sp. p. 146; Gaz. vol. 143; p. 24.  
 Luce Manufacturing Company. (See Luce, T. C., assignor.)  
 Luce, T. C., Dalton, Mass. Clasp. No. 933,190; Sept. 7; Sp. p. 343; Gaz. vol. 146; p. 54.  
 Luce, T. C., Dalton, Mass. Car-lock. No. 937,004; Oct. 12; Sp. p. 2908; Gaz. vol. 147; p. 485.  
 Luce, T. C., assignor to Luce Manufacturing Company, Dalton, Mass. Self-adjusting caster. No. 941,082; Nov. 23; Sp. p. 5818; Gaz. vol. 148; p. 982.  
 Luce, T. C., and C. R. Silvernail, Dalton, Mass. Lamp-working apparatus. No. 937,095; Oct. 12; Sp. p. 2909; Gaz. vol. 147; p. 485.  
 Lucier, H., Brampton, Mich. Cultivator. No. 925,362; June 15; Sp. p. 4762; Gaz. vol. 143; p. 813.  
 Lucier, T., Detroit, Mich. Clamp. No. 920,357; May 4; Sp. p. 544; Gaz. vol. 142; p. 86.  
 Lucius, F. J., et al. (See Wallace, R. H., assignor.)  
 Lucke, C. E., New York, N. Y. Gas-producer. No. 914,663; Mar. 9; Sp. p. 2102; Gaz. vol. 140; p. 357.  
 Lucke, C. E., New York, N. Y. Generating gas. No. 915,034; Mar. 9; Sp. p. 2829; Gaz. vol. 140; p. 479.  
 Lucke, T. W., Chicago, Ill. Vehicle-tire. No. 943,430; Dec. 14; Sp. p. 2991; Gaz. vol. 139; p. 504.  
 Lücke, W. J. (See Thun and Lücke.)  
 Luckenbach, H., New York, assignor to I. R. Coles, Glen Cove, N. Y. Fuel-economizing apparatus for furnaces. No. 924,805; June 15; Sp. p. 3677; Gaz. vol. 143; p. 630.  
 Luckenbach, J. L. (See Plautz and Luckenbach.)  
 Luckenbach, R., Colwyn, Pa., assignor to Borindum Extraction Company. Amalgamator. No. 930,299; Aug. 3; Sp. p. 1369; Gaz. vol. 145; p. 227.  
 Luckenbach, R., Colwyn, Pa., assignor to Borindum Extraction Company. Apparatus for pulverizing and amalgamating ores. No. 936,645; Oct. 12; Sp. p. 2212; Gaz. vol. 147; p. 366.  
 Luckenbach, R., Colwyn, Pa., assignor to Borindum Extraction Company. Amalgamating and separating metallic ores. No. 937,033; Oct. 12; Sp. p. 2978; Gaz. vol. 147; p. 494.  
 Luckenbach, R., Colwyn, Pa., assignor to Borindum Extraction Company. Apparatus for pulverizing, desulfurizing, or oxidizing metallic and other ores. No. 938,005; Oct. 26; Sp. p. 5016; Gaz. vol. 147; p. 854.  
 Luckenbach, R., Colwyn, Pa., assignor to Borindum Extraction Company. Means for the concentration by amalgamation of values of metallic ore matter. No. 938,676; Nov. 2; Sp. p. 515; Gaz. vol. 148; p. 79.  
 Luckett, J., Brooklyn, N. Y. Fire-escape. No. 926,430; June 29; Sp. p. 6982; Gaz. vol. 143; p. 1230.  
 Luckhard, J. F., Sebewaing, Mich. Fowl-catcher. No. 933,257; Sept. 7; Sp. p. 525; Gaz. vol. 146; p. 80.  
 Luckow, C., Cologne, Germany. Regenerating electric accumulators. No. 915,980; Mar. 23; Sp. p. 4778; Gaz. vol. 140; p. 845.  
 Ludde, E., New York, N. Y. Insect-powder sprayer. No. 921,422; May 11; Sp. p. 2735; Gaz. vol. 142; p. 470.  
 Lude, G. (See Baeder and Lude.)  
 Ludeke, W. A., Rochester, N. Y. Child's coin bank or safe. No. 910,699; Jan. 26; Sp. p. 4642; Gaz. vol. 138; p. 844.  
 Ludeman, B. W., El Campo, Tex. Show-case. No. 933,570; Sept. 7; Sp. p. 1243; Gaz. vol. 146; p. 184.  
 Ludemann, C. F. W., assignor to C. M. Peelle, Brooklyn, N. Y. Operating means for elevator-gates. No. 929,611; July 27; Sp. p. 6011; Gaz. vol. 144; p. 1052.  
 Luden, J. C., Reading, Pa. Sash-lock. No. 925,644; June 22; Sp. p. 5344; Gaz. vol. 143; p. 936.  
 Luden, W. H., assignor to M. L. Davis, Lancaster, Pa. Device for feeding iron or steel to spike, nut, or bolt machines. No. 910,139; Jan. 19; Sp. p. 3432; Gaz. vol. 138; p. 629.  
 Ludescher, E., Washington, D. C. Receptacle. No. 924,681; June 15; Sp. p. 3414; Gaz. vol. 143; p. 587.  
 Ludescher, E., Baltimore, Md. Suit-case and the like. No. 943,753; Dec. 21; Sp. p. 3712; Gaz. vol. 149; p. 646.  
 Ludewig, R. (See Liebig and Ludewig.)  
 Ludington, F. H. (See Marshall, J. P., assignor.)  
 Ludlam, J. O. (See Dorn, Ludlam, and Bonnot.)  
 Ludlam, J. O., and C. F. Bonnot, assignors to Bonnot Company, Canton, Ohio. Brick-cutting machine. No. 917,630; Apr. 6; Sp. p. 1299; Gaz. vol. 141; p. 229.  
 Ludtke, H. A., Amboy, Minn. Plow. No. 916,466; Mar. 30; Sp. p. 5714; Gaz. vol. 140; p. 1031.  
 Ludvigsen, C. and E., Jackson, Minn. Forming horseshoe-calks. No. 937,314; Oct. 19; Sp. p. 3563; Gaz. vol. 147; p. 616.  
 Ludvigsen, E. (See Ludvigsen, C. and E.)  
 Ludw. Loewe & Company. (See Woerner, L. C., assignor.)  
 Ludwick, W. D., assignor to Northwest Metallurgical Company, Seattle, Wash. Magnetic ore-separator. No. 939,523; Nov. 9; Sp. p. 2376; Gaz. vol. 148; p. 394.  
 Ludwig, A. L., assignor of one-half to H. Egner, Little Rock, Ark. Trace-holder. No. 926,706; June 29; Sp. p. 7492; Gaz. vol. 143; p. 1321.  
 Ludwig & Company. (See Hulder, J. P., assignor.)  
 Ludwig, J., New York, N. Y. Extensible bed or couch. No. 932,794; Aug. 31; Sp. p. 6718; Gaz. vol. 145; p. 1152.  
 Ludwig, J. C., Jr., San Francisco, Cal. Machine for making side rails of step-ladders. No. 910,299; Jan. 19; Sp. p. 3819; Gaz. vol. 138; p. 688.  
 Ludwig, W. F., Chicago, Ill. Drum and cymbal playing apparatus. No. 922,706; May 25; Sp. p. 5375; Gaz. vol. 142; p. 947.  
 Ludy, J. E., et al. (See Pitts, E. L., assignor.)  
 Luebker, O. H., assignor to Saladin Pneumatic Malting Construction Company, Chicago, Ill. Malt-kiln. No. 940,172; Nov. 16; Sp. p. 3828; Gaz. vol. 148; p. 650.



*Alphabetical list of patentees—Continued.*

- Luecke, A. B. (See Snow, Luecke, and Snow.)  
 Luedinghaus, H., Jr. (See Van Arsdale, J. H., assignor.)  
 Lucke, A. A., New Albany, Ind. Conveyor. No. 925,928; June 22; Sp. p. 5960; Gaz. vol. 143; p. 1028.  
 Lueneburg, W. A., South Milwaukee, Wis. Envelop. No. 937,515; Oct. 19; Sp. p. 3564; Gaz. vol. 147; p. 616.  
 Luening, C. H., St. Louis, Mo. Extension shade-bracket. No. 912,700; Feb. 16; Sp. p. 3479; Gaz. vol. 139; p. 620.  
 Luense, H., Chicago, Ill. Electrically-actuated hair and wool clipper. No. 911,139; Feb. 2; Sp. p. 232; Gaz. vol. 139; p. 41.  
 Luethy, F. C., assignor of one-half to J. D. Harmon, Chicago, Ill. Spool-holder for sewing-machines. No. 923,867; June 8; Sp. p. 1723; Gaz. vol. 143; p. 287.  
 Luethy, F. C., assignor of one-half to W. L. Ullsch, Chicago, Ill. Skirt-marker. No. 938,677; Nov. 2; Sp. p. 517; Gaz. vol. 148; p. 79.  
 Luft, H. J., Cleveland, Ohio. Resealing-trap. No. 927,419; July 6; Sp. p. 1439; Gaz. vol. 144; p. 239.  
 Luftkin, E. C., *et al.* (See Willet, J. G., assignor.)  
 Luft, W., Jersey City, N. J. Curtain support and hanger. No. 909,004; Jan. 5; Sp. p. 1179; Gaz. vol. 138; p. 188.  
 Luft, W. N., Tremont, Ill. Folding crate. No. 920,358; May 4; Sp. p. 546; Gaz. vol. 142; p. 87.  
 Luger, G., Charlottenburg, Germany. Cartridge having multipart projectiles. No. 926,431; June 29; Sp. p. 6984; Gaz. vol. 143; p. 1230.  
 Lugibihl, A. D. (See Zehrbach, H. D., assignor.)  
 Lugin, C., administratrix. (See Lugin, H. A.)  
 Lugin, H. A., deceased, New York; C. Lugin, administratrix, Brooklyn, N. Y. Watch for counting the pulse by sound or touch. No. 916,953; Mar. 30; Sp. p. 6658; Gaz. vol. 140; p. 1187.  
 Luitwieler, C. S. (See Chandler, E. N., assignor.)  
 Luitwieler, S. W., Los Angeles, Cal. Cam-operated pump. No. 926,267; June 29; Sp. p. 6669; Gaz. vol. 143; p. 1177.  
 Lukasko, J. S., Weston, Va. Glass-tile mold. No. 917,469; Apr. 6; Sp. p. 1011; Gaz. vol. 141; p. 176.  
 Lukasko, J. S., Weston, Va. Method and apparatus for forming glass tiles. No. 917,470; Apr. 6; Sp. p. 1012; Gaz. vol. 141; p. 176.  
 Luke, B. F., Orangeville, assignor to B. F. Luke Co., Salt Lake City, Utah. Soil-working attachment for agricultural implements. No. 923,057; May 25; Sp. p. 6107; Gaz. vol. 142; p. 1061.  
 Luke, D. F., Blakeslee, assignor of one-half to O. H. Nihart, Edon, Ohio. Pattern for letters and numerals. No. 929,961; Aug. 3; Sp. p. 719; Gaz. vol. 145; p. 115.  
 Lukenbill, A. G., assignor of one-half to C. J. Leftwich, Pueblo, Colo. Canvas camping device. No. 923,391; July 20; Sp. p. 3528; Gaz. vol. 144; p. 623.  
 Lukens, R. C., Merion, Pa. Railway-tie. No. 911,601; Feb. 9; Sp. p. 1130; Gaz. vol. 139; p. 218.  
 Lull, J. M., Wausau, Wis. Loose-leaf binder. No. 943,431; Dec. 14; Sp. p. 2993; Gaz. vol. 149; p. 505.  
 Lulli, P., Uccle, near Brussels, assignor to Société Anonyme l'Oxydrique Internationale, Brussels, Belgium. Automatic pressure-regulator. No. 911,249; Feb. 2; Sp. p. 455; Gaz. vol. 139; p. 78.  
 Lum, W. O. (See Knight and Lum.)  
 Lum, W. O., Schenectady, N. Y., assignor to General Electric Company. Motor-starting device. No. 916,343; Mar. 23; Sp. p. 5432; Gaz. vol. 140; p. 965.  
 Lum, W. O., Schenectady, N. Y., assignor to General Electric Company. Motor-control apparatus. No. 937,451; Oct. 19; Sp. p. 3883; Gaz. vol. 147; p. 661.  
 Lumbard, M. A., *et al.* (See Perry, D. P., assignor.)  
 Lumbard, M. A., Des Moines, Iowa. Indicator for duplicate-sales-slip files. No. 910,555; Jan. 26; Sp. p. 4351; Gaz. vol. 138; p. 799.  
 Lumière, A. and L., Lyons-Montplaisir, France. Producing polychromatic screens. No. 916,467; Mar. 30; Sp. p. 5715; Gaz. vol. 140; p. 1031.  
 Lumière, C. A., Paris, France. Kinetographic apparatus. No. 922,302; May 18; Sp. p. 4529; Gaz. vol. 142; p. 787.  
 Lumière, L. (See Lumière, A. and L.)  
 Lumley, A. M. (See Stanage, T. W., assignor.)  
 Lumpkin, H. P., *et al.* (See Bricker, C. P., assignor.)  
 Lumpkin, R. B., assignor to Air Blast Gin Company, Dallas, Tex. Cotton-gin. No. 910,700; Jan. 26; Sp. p. 4644; Gaz. vol. 138; p. 844.  
 Lumsden, D. and H., Morehouse, Mo. Means for operating planter-markers. No. 915,615; Mar. 16; Sp. p. 4036; Gaz. vol. 140; p. 697.  
 Lumsden, H. (See Lumsden, D. and H.)  
 Lumsden, W. G., Hamilton, Ontario, Canada. Tomato-coring machine. No. 925,116; June 15; Sp. p. 4314; Gaz. vol. 143; p. 735.  
 Lunan, T. M., Buffalo, and A. C. Rantsch, New York, N. Y. Metallic shingle and making the same. No. 942,577; Dec. 7; Sp. p. 1143; Gaz. vol. 149; p. 185.  
 Lund, G. H. (See Harrison, C. J., assignor.)  
 Lund, J., San Francisco, Cal. Bench-plane. No. 934,924; Sept. 21; Sp. p. 3916; Gaz. vol. 146; p. 679.  
 Lund, L. (See Shipp and Lund.)  
 Lund, N., Minneapolis, Minn. Combination tack hammer and puller. No. 919,370; Apr. 27; Sp. p. 5179; Gaz. vol. 141; p. 898.  
 Lund, O., Esmond, N. D. Animal-trap. No. 929,147; July 27; Sp. p. 5067; Gaz. vol. 144; p. 900.  
 Lundberg, E. E., Minneapolis, Minn. Alarm attachment for door-locks. No. 937,080; Oct. 19; Sp. p. 3071; Gaz. vol. 147; p. 540.  
 Lundberg, P. G. C., Wernamo, Sweden. Protecting arrangement for rotary tools. No. 941,427; Nov. 30; Sp. p. 6597; Gaz. vol. 148; p. 1118.  
 Lunde, C., assignor of one-half to A. Scheid, Marshalltown, Iowa. Draft appliance. No. 932,561; Aug. 31; Sp. p. 6198; Gaz. vol. 145; p. 1074.  
 Lunde, T. H., assignor to American Industrial Co., Chicago, Ill. Music-desk hanger for pianos. No. 918,066; Apr. 13; Sp. p. 2251; Gaz. vol. 141; p. 404.  
 Lundeberg, C. F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 921,857; May 18; Sp. p. 3649; Gaz. vol. 142; p. 643.  
 Lundell, R., New York, N. Y. Paper bottle. No. 942,088; Dec. 7; Sp. p. 112; Gaz. vol. 149; p. 18.  
 Lundgren, W. J., Willmar, Minn. Tension device for planter check-wires. No. 909,196; Jan. 12; Sp. p. 1578; Gaz. vol. 138; p. 284.  
 Lundholm, C. G., Las Vegas, Nev. Set-screw. No. 936,549; Oct. 12; Sp. p. 2011; Gaz. vol. 147; p. 331.  
 Lundquist, E. F. T., assignor to Illinois Modern Machine Company, Chicago, Ill. Button-making machine. No. 918,177; Apr. 13; Sp. p. 2461; Gaz. vol. 141; p. 441.  
 Lundquist, J. P., Portland, Oreg. Safety window chair or platform. No. 914,852; Mar. 9; Sp. p. 2521; Gaz. vol. 140; p. 421.  
 Lundvall, E. A., and W. Olson, assignors to W. C. Roberts, Brooklyn, N. Y. Numbering-machine. No. 944,451; Dec. 28; Sp. p. 5189; Gaz. vol. 149; p. 910.  
 Lungen, A., New York, N. Y. Appliance for elevators and other movable objects and bodies. No. 909,433; Jan. 12; Sp. p. 2024; Gaz. vol. 138; p. 360.  
 Lungen, A., New York, N. Y., assignor to Edwards & Company. Binding-post. No. 940,397; Nov. 16; Sp. p. 4360; Gaz. vol. 148; p. 729.  
 Lunger, W. J., Elm Creek, Neb. Time-controlled electric device. No. 930,871; Aug. 10; Sp. p. 2562; Gaz. vol. 145; p. 442.  
 Lungren, C. M., Bayonne, N. J., assignor to Safety Car Heating & Lighting Company. Plural-jet burner. No. 928,527; July 20; Sp. p. 3800; Gaz. vol. 144; p. 666.  
 Lunke, J., Everett, Wash. Egg-carrier. No. 930,773; Aug. 10; Sp. p. 2365; Gaz. vol. 145; p. 409.  
 Lunken, E. H., Denver, Colo., assignor to Lunkenheimer Company, Cincinnati, Ohio. Combined throttle-valve and lubricator. No. 910,401; Jan. 19; Sp. p. 4021; Gaz. vol. 138; p. 722.  
 Lunken, E. H., assignor to Lunken Steel Window Co., Cincinnati, Ohio. Shade-supporting device. No. 942,967; Dec. 14; Sp. p. 2012; Gaz. vol. 149; p. 348.  
 Lunken Steel Window Co. (See Conklin, C. M., assignor.)  
 Lunken Steel Window Co. (See Lunken, E. H., assignor.)  
 Lunkenheimer Company. (See Aull, J. J., assignor.)  
 Lunkenheimer Company. (See Lunken, E. H., assignor.)  
 Lunn, J. T., Southampton, England. Invalid's mattress. No. 944,624; Dec. 28; Sp. p. 5597; Gaz. vol. 149; p. 971.  
 Lunn, M. R., assignor to O. and J. B. Atkinson, Adrian, Mo. Vehicle-tongue. No. 934,080; Sept. 14; Sp. p. 2271; Gaz. vol. 146; p. 372.  
 Lunnstrum, L., Council Bluffs, Iowa. Air-flue blower. No. 938,495; Nov. 2; Sp. p. 107; Gaz. vol. 148; p. 17.  
 Luppert, V. C., Williamsport, Pa. Caster-attaching bearing-box. No. 925,117; June 15; Sp. p. 4315; Gaz. vol. 143; p. 735.  
 Luppert, V. C., Williamsport, Pa. Caster-attaching bearing-box. No. 933,999; Sept. 14; Sp. p. 2103; Gaz. vol. 146; p. 347.  
 Luppino Davenport Company. (See Luppino, J., assignor.)  
 Luppino, J., Ridgewood, N. J., assignor to Luppino Davenport Company, New York, N. Y. Swinging couch-bed. No. 931,780; Aug. 24; Sp. p. 4570; Gaz. vol. 145; p. 793.  
 Lüring, W., Hanover, assignor to Gebrüder Körting Actiengesellschaft, Körtingsdorf, near Hanover, Germany. Production of soap powder. No. 940,398; Nov. 16; Sp. p. 4361; Gaz. vol. 148; p. 729.  
 Luschka, A. R., assignor to Western Electric Company, Chicago, Ill. Hasp-fastener. No. 929,612; July 27; Sp. p. 6013; Gaz. vol. 144; p. 1052.  
 Lusk, J., Auburndale, Wis. Unhitching device. No. 909,005; Jan. 5; Sp. p. 1180; Gaz. vol. 138; p. 188.  
 Lusse, J. (See Lusse, R. and J.)  
 Lusse, R. and J., Philadelphia, Pa. Friction-driving mechanism. No. 939,046; Nov. 2; Sp. p. 1282; Gaz. vol. 148; p. 206.  
 Lust, A., New York, N. Y. Dish or plate. No. 922,495; May 25; Sp. p. 4928; Gaz. vol. 142; p. 878.

*Alphabetical list of patentees—Continued.*

- Luten, D. B., Indianapolis, Ind. Bridge or arch of concrete or other analogous materials. No. 923,058; May 25; Sp. p. 6108; Gaz. vol. 142; p. 1061.
- Luten, D. B., Indianapolis, Ind. Concrete bridge. No. 933,771; Sept. 14; Sp. p. 1654; Gaz. vol. 146; p. 274.
- Luten, D. B., Indianapolis, Ind. Wall. No. 934,411; Sept. 14; Sp. p. 2905; Gaz. vol. 146; p. 485.
- Luther Bros. Co. (See Thompson, J. M., assignor.)
- Luther Brothers Company. (See Panyard, T. A., assignor.)
- Luther, E. E., and W. H. Volek, Watsonville, Cal. Manufacture of lead arsenate. No. 929,962; Aug. 3; Sp. p. 722; Gaz. vol. 145; p. 115.
- Luther, H. R., Newton, Mass. Railway-track structure. No. 917,957; Apr. 13; Sp. p. 2004; Gaz. vol. 141; p. 365.
- Luther, W., New Carlisle, Ind. Whip-socket. No. 909,629; Jan. 12; Sp. p. 2418; Gaz. vol. 138; p. 428.
- Luther, W. H. (See Baron, G., assignor.)
- Luther, W. J. (See Chrysler, Luther, and Kays.)
- Lüthke, F., Bremen, Germany. Motor vehicle and truck. No. 927,256; July 6; Sp. p. 1148; Gaz. vol. 144; p. 187.
- Lutke, R. (See Spady, L., assignor.)
- Lutton, W. J., Paterson, N. J., assignor to Crompton & Knowles Loom Works. Pattern mechanism for looms. No. 917,088; Apr. 6; Sp. p. 255; Gaz. vol. 141; p. 46.
- Lüttrell, J. D., Benton Harbor, Mich. Gold-separating apparatus. No. 933,772; Sept. 14; Sp. p. 1655; Gaz. vol. 146; p. 274.
- Lüttrell, J. D., assignor of one-half to J. W. Moore, Kingston, Okla. Bridge construction. No. 932,483; Aug. 31; Sp. p. 6038; Gaz. vol. 145; p. 1048.
- Lütttringhaus, A. (See Isler, Lütttringhaus, and Diesbach.)
- Lutz, C. A., Lansing, Mich. Padlock. No. 944,888; Dec. 28; Sp. p. 6161; Gaz. vol. 149; p. 1060.
- Lutz, G. A., New York, N. Y. Means for holding receptacles and the like to conduits. No. 917,326; Apr. 6; Sp. p. 762; Gaz. vol. 141; p. 130.
- Lutz, G. A., New York, N. Y. Base for supporting switches and the like upon conduits. No. 917,327; Apr. 6; Sp. p. 763; Gaz. vol. 141; p. 130.
- Lutz, G. A., Plainfield, N. J. Outlet or junction box. No. 917,328; Apr. 6; Sp. p. 765; Gaz. vol. 141; p. 130.
- Lutz, G. A., Plainfield, N. J. Primary electric battery. No. 919,900; Apr. 27; Sp. p. 6302; Gaz. vol. 141; p. 1076.
- Lutz, G. A., New York, N. Y., assignor to American Circular Loom Company, Portland, Me. Armored conductor. No. 916,741; Mar. 30; Sp. p. 6240; Gaz. vol. 140; p. 1117.
- Lutz, G. A., New York, N. Y., assignor to American Circular Loom Company, Portland, Me. Flexible conduit. No. 916,742; Mar. 30; Sp. p. 6242; Gaz. vol. 140; p. 1117.
- Lutz, G. A., Plainfield, N. J., assignor to American Circular Loom Company, Portland, Me. Outlet or junction box. No. 916,743; Mar. 30; Sp. p. 6243; Gaz. vol. 140; p. 1117.
- Lutz, G. A., New York, N. Y., assignor to American Circular Loom Company, Portland, Me. Machine for making tubes. No. 931,134; Aug. 17; Sp. p. 3180; Gaz. vol. 145; p. 556.
- Lutz, G. A., New York, N. Y., assignor to American Circular Loom Company, Portland, Me. Flexible conduit. No. 934,682; Sept. 21; Sp. p. 3446; Gaz. vol. 146; p. 600.
- Lutz, G. A., New York, N. Y., assignor to American Circular Loom Company, Portland, Me. Tube-making machine. No. 934,683; Sept. 21; Sp. p. 3447; Gaz. vol. 146; p. 600.
- Lutz, G. A., Plainfield, N. J., assignor to American Circular Loom Company, Portland, Me. Pipe-cleaning apparatus. No. 939,608; Nov. 9; Sp. p. 2577; Gaz. vol. 148; p. 423.
- Lutz, G. A., New York, N. Y., and C. C. Sibley, Perth Amboy, N. J. Receptacle or the like for conduits. No. 917,325; Apr. 6; Sp. p. 760; Gaz. vol. 141; p. 129.
- Lutz, G. A., New York, N. Y., and C. C. Sibley, Perth Amboy, N. J. Outlet or junction box. No. 929,097; July 27; Sp. p. 4948; Gaz. vol. 144; p. 882.
- Lutz, G. A., Plainfield, and C. C. Sibley, Perth Amboy, N. J. Receptacle or the like for conduits. No. 941,156; Nov. 23; Sp. p. 5985; Gaz. vol. 148; p. 1007.
- Lutz, G. H. (See Blake, F. O., assignor.)
- Lutz, G. K. (See Collier, D., assignor.)
- Lutz, H., Denver, Colo. Tobacco-pipe. No. 923,674; June 1; Sp. p. 1239; Gaz. vol. 143; p. 191.
- Lutz, J. M. (See Davis and Lutz.)
- Luz, P., assignor to Waterbury Clock Co., Waterbury, Conn. Ship's-bells clock. No. 927,568; July 13; Sp. p. 1766; Gaz. vol. 144; p. 316.
- Luz, P., assignor to Waterbury Clock Co., Waterbury, Conn. Eight-day alarm-clock. No. 943,312; Dec. 14; Sp. p. 2748; Gaz. vol. 149; p. 464.
- Luzicky, J., Philadelphia, Pa. Wagon-brake. No. 927,736; July 13; Sp. p. 2146; Gaz. vol. 144; p. 372.
- Luzzatti, A., Ravenna, Italy. Folding saw-frame. No. 923,543; June 1; Sp. p. 948; Gaz. vol. 143; p. 147.
- Lyback, F. J., Chicago, Ill. Concrete mixer and spreader. No. 923,868; June 8; Sp. p. 1725; Gaz. vol. 143; p. 287.
- Lybeck, T., and C. D. Houseman, Gastonville, Pa. Switch-lock. No. 914,294; Mar. 2; Sp. p. 1362; Gaz. vol. 140; p. 211.
- Lyche, H. (See Odquist and Lyche.)
- Lyda, A. W., Pittsburg, Pa., and E. C. Robinson, Lowellville, Ohio. Telephone attachment. No. 912,701; Feb. 16; Sp. p. 3480; Gaz. vol. 139; p. 620.
- Lyda, A. W., W. W. Cubbison, New Castle, Pa., and E. C. Robinson, Lowellville, Ohio. Disinfecting composition. No. 929,963; Aug. 3; Sp. p. 722; Gaz. vol. 145; p. 115.
- Lydon, A. S., Stuart, Iowa. Husking-ferrule. No. 930,300; Aug. 3; Sp. p. 1370; Gaz. vol. 145; p. 227.
- Lydon, T., Baltimore, Md. Kitchen-sink. No. 910,833; Jan. 26; Sp. p. 4917; Gaz. vol. 138; p. 887.
- Lyon, G. W., Trinidad, Colo. Derrick. No. 919,047; Apr. 20; Sp. p. 4337; Gaz. vol. 141; p. 757.
- Lyford, G. H. A., Cincinnati, Ohio. Rice-hulling machine. No. 926,991; July 6; Sp. p. 582; Gaz. vol. 144; p. 96.
- Lyke, H. (See Wilkes and Lyke.)
- Lyke, R. P., Portland, Oreg. Automatic dental hammer. No. 927,420; July 6; Sp. p. 1441; Gaz. vol. 144; p. 239.
- Lyman, A. E., Springfield, Mass. Garbage or refuse receptacle. No. 943,089; Dec. 14; Sp. p. 2299; Gaz. vol. 149; p. 390.
- Lyman, C. W., New York, N. Y. Making sulfur dioxide. No. 911,735; Feb. 9; Sp. p. 1414; Gaz. vol. 139; p. 263.
- Lyman, F., Fresno, Cal. Fruit-seeder. No. 908,588; Jan. 5; Sp. p. 332; Gaz. vol. 138; p. 54.
- Lyman, G. L., Oklahoma, Okla. Billiard-cue cutter. No. 929,681; Aug. 3; Sp. p. 79; Gaz. vol. 145; p. 15.
- Lyman, J. G., Philadelphia, Pa. Vacuum-bottle. No. 922,174; May 18; Sp. p. 4266; Gaz. vol. 142; p. 745.
- Lyman, S. W., Roberts, Mont. Railway-rail. No. 941,580; Nov. 30; Sp. p. 6895; Gaz. vol. 148; p. 1167.
- Lyman, W. C., et al. (See Frost, R. L., assignor.)
- Lynam, J. E., assignor to J. Lynam Manufacturing Company, San Jose, Cal. Machine for making fruit-baskets. No. 914,358; Mar. 2; Sp. p. 1504; Gaz. vol. 140; p. 232.
- Lynch, C. C., Parkersburg, W. Va. Track level and gage. No. 935,038; Sept. 28; Sp. p. 4148; Gaz. vol. 146; p. 743.
- Lynch, E. F., Salt Lake City, Utah. Apparatus for extracting liquids from ores or other substances. No. 910,075; Jan. 19; Sp. p. 3307; Gaz. vol. 138; p. 609.
- Lynch, E. F., Los Angeles, Cal. Combined box and writing-desk. No. 930,774; Aug. 10; Sp. p. 2366; Gaz. vol. 145; p. 410.
- Lynch, E. W., College Park, Ga. Clothes-pounder. No. 940,699; Nov. 23; Sp. p. 5004; Gaz. vol. 148; p. 854.
- Lynch, J. F. (See Allen, A. W., assignor.)
- Lynch, J. F., Swampscott, assignor of one-half to T. F. Hurley, Lynn, Mass. Check-receiving and sales-indicating machine. No. 930,872; Aug. 10; Sp. p. 2564; Gaz. vol. 145; p. 442.
- Lynch, J. H., et al. (See Barnett, A. M., assignor.)
- Lynch, J. H., Haverstraw, N. Y. Screening apparatus. No. 944,097; Dec. 21; Sp. p. 4429; Gaz. vol. 149; p. 763.
- Lynch, J. M., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making dies. No. 922,926; May 25; Sp. p. 5845; Gaz. vol. 142; p. 1019.
- Lynch, M. T., Jr., New York, N. Y. Collapsible packing-box. No. 915,455; Mar. 16; Sp. p. 3707; Gaz. vol. 140; p. 644.
- Lynch, T. D., Walkinsburg, and J. J. Crane, Swissvale, assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Composition of matter. No. 932,622; Aug. 31; Sp. p. 6351; Gaz. vol. 145; p. 1096.
- Lynch, W. F. (See Gupta, F. C., assignor.)
- Lynchburg Foundry Co. (See McWane, H. E., assignor.)
- Lyndon, L., East Orange, N. J. Dynamo-electric machine. No. 913,666; Feb. 23; Sp. p. 5483; Gaz. vol. 139; p. 965.
- Lynehan, J. E., Newark, N. J. Snare-strainer for drums. No. 911,890; Feb. 9; Sp. p. 1691; Gaz. vol. 139; p. 313.
- Lyng, J. J., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Mounting for fuses. No. 911,055; Feb. 2; Sp. p. 64; Gaz. vol. 139; p. 13.
- Lyng, G. W., et al. (See Shank, A. W., assignor.)
- Lynn, J. P., Trafalgar, Kalgoorlie, Western Australia, Australia. Electromagnetic stamp-battery. No. 910,834; Jan. 26; Sp. p. 4919; Gaz. vol. 138; p. 883.
- Lynn, T. F. (See Liberty, J. C., assignor.)
- Lyon, F. E., Elmira, N. Y. Toy. No. 929,455; July 27; Sp. p. 5700; Gaz. vol. 144; p. 1000.
- Lyon, F. E., and T. H. Hickok, Omaha, Nebr. Water-heating apparatus. No. 913,832; Mar. 2; Sp. p. 315; Gaz. vol. 140; p. 54.



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- Lyon, G. A., Philadelphia, Pa. Antiskidding attachment for wheel-tires. No. 924,806; June 15; Sp. p. 3680; Gaz. vol. 143; p. 631.
- Lyon, G. L., Nahant, Mass. Crank-box of gasoline-engines. No. 911,891; Feb. 9; Sp. p. 1692; Gaz. vol. 139; p. 313.
- Lyon, G. L., Bainbridge N. Y. Bag-holder. No. 932,151; Aug. 24; Sp. p. 5370; Gaz. vol. 145; p. 916.
- Lyon, G. L., assignor to himself, I. B. Cushman, Bainbridge, and F. West, Oneonta, N. Y. Bag-holder. No. 914,057; Mar. 2; Sp. p. 869; Gaz. vol. 140; p. 134.
- Lyon, G. W. (See Seaman, O. G., assignor.)
- Lyon, H. J., Portland, Oreg. Dauber and polisher attachment for receptacles. No. 922,496; May 25; Sp. p. 4929; Gaz. vol. 142; p. 878.
- Lyon, J. P., Detroit, Mich. Clamp-attaching device. No. 925,118; June 15; Sp. p. 4317; Gaz. vol. 143; p. 735.
- Lyon, J. W., Flatgap, Ky. Farm-gate. No. 937,681; Oct. 19; Sp. p. 4324; Gaz. vol. 147; p. 737.
- Lyon, L. M., Cranford, N. J. Means for refrigerating cars. No. 924,620; June 8; Sp. p. 3280; Gaz. vol. 143; p. 534.
- Lyon, M. T., Salt Lake City, Utah. Truck structure for garbage or ash cans. No. 944,197; Dec. 21; Sp. p. 4640; Gaz. vol. 149; p. 795.
- Lyon Metallic Manufacturing Company. (See Bales, J. E., assignor.)
- Lyon, R., Englewood, N. J. Toilet-cleaning-soap. No. 932,152; Aug. 24; Sp. p. 5372; Gaz. vol. 145; p. 916.
- Lyon, R. V., assignor of one-half to J. C. Bertrand, Rochester, N. Y. Bottle-sealing device. No. 928,872; July 20; Sp. p. 4487; Gaz. vol. 144; p. 782.
- Lyon, S., Sault Ste. Marie, Mich. Locomotive attachment. No. 917,631; Apr. 6; Sp. p. 1303; Gaz. vol. 141; p. 230.
- Lyon, W. T., Portland, Oreg. Die-supporting block and swager. No. 919,901; Apr. 27; Sp. p. 6304; Gaz. vol. 141; p. 1077.
- Lyons, A. J., *et al.* (See Russ, J. D., assignor.)
- Lyons, F. G., Philadelphia, Pa. Folding cart. No. 908,472; Jan. 5; Sp. p. 77; Gaz. vol. 138; p. 15.
- Lyons, G. W., Grand Rapids, Wis. Dry measure. No. 917,329; Apr. 6; Sp. p. 767; Gaz. vol. 141; p. 130.
- Lyons, H. C. (See McLean, Lyons, and Clark.)
- Lyons, J., Brooklyn, assignor to H. M. Thomas, New York, N. Y. Folding bed. No. 940,038; Nov. 16; Sp. p. 3521; Gaz. vol. 148; p. 603.
- Lyons, J. A. (See Broadwell and Lyons.)
- Lyons, J. P., Kansas City, Mo. Wrench. No. 915,869; Mar. 23; Sp. p. 4557; Gaz. vol. 140; p. 809.
- Lyons, W. C., *et al.* (See Bridgewater, A. M., assignor.)
- Lysaght, C. J., Newark, N. J., assignor to R. Neumann Hardware Co. Machine for cutting and trimming the edges of corner-pieces. No. 939,144; Nov. 2; Sp. p. 1474; Gaz. vol. 148; p. 240.
- Lysaght, C. J., Newark, N. J., assignor to R. Neumann Hardware Co. Machine or apparatus for creasing the edges of corner-pieces. No. 939,145; Nov. 2; Sp. p. 1482; Gaz. vol. 148; p. 241.
- Lysaght, C. J., Newark, N. J., assignor to R. Neumann Hardware Co. Bag-fastener. No. 943,229; Dec. 14; Sp. p. 2573; Gaz. vol. 149; p. 436.
- Lyster, B. R. and M. J., Whitefield, N. H. Apparatus for distilling wood-alcohol and other products. No. 941,641; Nov. 30; Sp. p. 7016; Gaz. vol. 148; p. 1187.
- Lyster, M. J. (See Lyster, B. R. and M. J.)
- Lytle, C. E., St. Joseph, Mo. Pitch-board. No. 944,799; Dec. 28; Sp. p. 5968; Gaz. vol. 149; p. 1029.
- Lytle, F., Minnewaukan, N. D. Threshing-machine. No. 926,201; June 29; Sp. p. 6536; Gaz. vol. 143; p. 1156.
- Lytle, W. S., Philadelphia, Pa. Passenger-registering device for cars. No. 924,481; June 8; Sp. p. 2972; Gaz. vol. 143; p. 487.
- Lytle, W. W., assignor of one-half to R. S. Maus, Seattle, Wash. Barrel. No. 926,502; June 29; Sp. p. 7100; Gaz. vol. 143; p. 1253.
- Lytton, W., Chicago, Ill. Hydraulic dredge. No. 929,613; July 27; Sp. p. 6014; Gaz. vol. 144; p. 1053.
- Lyzotte, L. C., Richmond, Va. Pie-plate lifter or holder. No. 938,258; Oct. 26; Sp. p. 5565; Gaz. vol. 147; p. 951.
- M. Cohn & Co. (See Wallstein, M., assignor.)
- M. Garland Company. (See Garland, M., assignor.)
- M. C. Peters Mill Co. (See Manning, T. C., assignor.)
- M. D. Knowlton Company. (See De Smith, H., assignor.)
- M. H. Treadwell Company. (See Astrom, C. P., assignor.)
- M. H. Treadwell Company. (See Ketchum, S., assignor.)
- M. & L. Novelty Company. (See Mattison, E. D., assignor.)
- M'Giehan, C. H., Jersey City, N. J. Pleasure-railway. No. 929,972; Aug. 3; Sp. p. 738; Gaz. vol. 145; p. 118.
- Ma Godoy, J., San Antonio, Tex. Automatic switch. No. 942,033; Nov. 30; Sp. p. 7835; Gaz. vol. 148; p. 1320.
- Ma Loney, M. F., Chicago, Ill. Tailor's cutting-chart. No. 913,408; Feb. 23; Sp. p. 4904; Gaz. vol. 139; p. 880.
- Maag, E. L., Chillicothe, Ohio. Pipe-mold. No. 935,529; Sept. 28; Sp. p. 5143; Gaz. vol. 146; p. 904.
- Maas, G. H., Milwaukee, Wis. Box-fastener. No. 909,918; Jan. 19; Sp. p. 3003; Gaz. vol. 138; p. 556.
- Maas, G. H., Milwaukee, Wis. Box-fastener. No. 909,919; Jan. 19; Sp. p. 3006; Gaz. vol. 138; p. 557.
- Maas, G. H., Milwaukee, Wis. Hinge. No. 926,949; July 6; Sp. p. 503; Gaz. vol. 144; p. 83.
- Maas, J., assignor to American Gas Light Company, Kalamazoo, Mich. Gas-light fixture. No. 910,556; Jan. 26; Sp. p. 4352; Gaz. vol. 138; p. 799.
- Maas, J., assignor to American Gas Light Company, Kalamazoo, Mich. Needle-valve. No. 938,601; Nov. 2; Sp. p. 365; Gaz. vol. 148; p. 54.
- Maas, J., assignor to American Gas Light Company, Kalamazoo, Mich. Incandescent gas-lamp. No. 938,602; Nov. 2; Sp. p. 366; Gaz. vol. 148; p. 54.
- Maass, C. H., Bergenfield, N. J., assignor to John Kroder & Henry Reubel Company, New York, N. Y. Curtain-hook. No. 940,642; Nov. 16; Sp. p. 4663; Gaz. vol. 148; p. 509.
- Maassen, A., Salt Lake City, Utah. Sugar-separator. No. 934,000; Sept. 14; Sp. p. 2104; Gaz. vol. 146; p. 347.
- Maatschappij tot Voortzetting van de Zaken der Firma Ruhaak & Co. (See Cochins, G. L., assignor.)
- Mabhey, H. A., Lima, Ohio. Button-fastener. No. 924,807; June 15; Sp. p. 3681; Gaz. vol. 143; p. 631.
- Mable, W., assignor of one-half to W. B. Morris, Fort Collins, Colo. Folding crate. No. 924,082; June 8; Sp. p. 2125; Gaz. vol. 143; p. 354.
- Mabon, J. I. (See Peluso and Sack, assignors.)
- Mabry, N., Meridian, Miss. Cotton-chopper. No. 937,160; Oct. 19; Sp. p. 3247; Gaz. vol. 147; p. 567.
- MacBain, W. C., assignor to Seneca Falls Manufacturing Company, Seneca Falls, N. Y. Tool-rest for lathes. No. 921,858; May 18; Sp. p. 3651; Gaz. vol. 142; p. 643.
- MacCallum, A. P. (See Bartlett and MacCallum.)
- MacCann, C. R., *et al.* (See Loftus, L. F., assignor.)
- MacCarthy, D. F., White Bear, and H. M. Darling, assignors to Darnac Commutator Company, St. Paul, Minn. Igniter for gasoline-engines. No. 926,202; June 29; Sp. p. 6537; Gaz. vol. 143; p. 1156.
- MacClyment, H. A., Burlington, Iowa. Lubricant-nolder. No. 937,682; Oct. 19; Sp. p. 4325; Gaz. vol. 147; p. 737.
- MacColl, J. R. and W. B., Providence, R. I. Yarn-cleaner for spoolers, spinning, or similar machines. No. 915,300; Mar. 16; Sp. p. 3399; Gaz. vol. 140; p. 593.
- MacColl, W. B. (See MacColl, J. R. and W. B.)
- MacConnell, H. C., Philadelphia, Pa., assignor to R. Hoe, New York, N. Y. Plate-drying apparatus. No. 944,800; Dec. 28; Sp. p. 5971; Gaz. vol. 149; p. 1029.
- MacCormack Drill and Manufacturing Company. (See Hibsche, H. J., assignor.)
- MacCrone, W. H. (See Cogswell and MacCrone.)
- MacCune, J. G. (See Roed, O., assignor.)
- MacDonald, C. W., assignor of one-third to S. T. MacDonald and one-third to W. H. Davison, Philadelphia, Pa. Paper-box-covering machine. No. 940,541; Nov. 16; Sp. p. 4661; Gaz. vol. 148; p. 776.
- MacDonald, F. W., Detroit, Mich. Artificial tooth. No. 920,768; May 4; Sp. p. 1355; Gaz. vol. 142; p. 220.
- MacDonald, S. T., *et al.* (See MacDonald, C. W., assignor.)
- MacDonell, L. (See McCulloch, F. L., assignor.)
- MacEwan, R. S., Troy, N. Y. Hose-coupling. No. 924,166; June 8; Sp. p. 2335; Gaz. vol. 143; p. 383.
- MacFarland, A. M., assignor of fifteen one-hundredths to W. W. Gibbs, one one-hundredth to C. H. Heustis, and three one-hundredths to W. W. Weigley, Philadelphia, Pa., and sixty-four one-hundredths to W. C. L. Eglin and J. B. McCall. Vehicle-tire. No. 923,059; May 25; Sp. p. 6112; Gaz. vol. 142; p. 1061.
- MacFarland, W. J., Everett, and W. G. Eaton, Boston, Mass. Reversible die. No. 916,930; Mar. 30; Sp. p. 6609; Gaz. vol. 140; p. 1178.
- MacGahan, P. (See Davis and MacGahan.)
- MacGill, W. H., Louisville, Ky. Tie-out. No. 926,664; June 29; Sp. p. 7412; Gaz. vol. 143; p. 1307.
- MacHale, W. T., Philadelphia, Pa. Pencil-sharpener. No. 912,391; Feb. 16; Sp. p. 2826; Gaz. vol. 139; p. 514.
- MacIlwaine, J. B. S. (See MacCombie, T. G. F. G., assignor.)
- MacKaskie, P. M., Central, Nev. Envelop. No. 908,875; Jan. 5; Sp. p. 918; Gaz. vol. 138; p. 146.
- MacKaskie, P. M., Manhattan, Nev. Clasp. No. 935,670; Oct. 5; Sp. p. 97; Gaz. vol. 147; p. 17.
- MacKay, T. J., Sr., Philadelphia, Pa. File. No. 911,736; Feb. 9; Sp. p. 1415; Gaz. vol. 139; p. 263.
- MacKay, J., Cambridge, assignor to C. A. Stone and E. S. Webster, Newton, and R. Robb, Concord, Mass. Dephlegmator. No. 911,311; Feb. 2; Sp. p. 566; Gaz. vol. 139; p. 97.
- MacKenzie, J., Watervliet, N. Y. Car lock and seal. No. 917,089; Apr. 6; Sp. p. 257; Gaz. vol. 141; p. 47.

*Alphabetical list of patentees—Continued.*

- MacKenzie, J., Watervliet, N. Y. Seal-lock. No. 917,090; Apr. 6; Sp. p. 259; Gaz. vol. 141; p. 47.
- MacKenzie, W. A., assignor of one-half to W. English, Petrolia, Ontario, Canada. Extension self-locking portable derrick. No. 910,210; Jan. 19; Sp. p. 3599; Gaz. vol. 138; p. 654.
- MacKinnon, R. G., New York, N. Y. Self-leveling table. No. 926,665; June 29; Sp. p. 7413; Gaz. vol. 143; p. 1307.
- MacLachan, J. D., assignor of one-half to G. W. Golden, Detroit, Mich. Automatic regulating means for feeding water to flash-boilers. No. 922,790; Mar. 23; Sp. p. 5548; Gaz. vol. 142; p. 974.
- MacLafferty, T. H., Tenino, Wash. Car-stake. No. 926,203; June 29; Sp. p. 6538; Gaz. vol. 143; p. 1156.
- MacLafferty, T. H., Tenino, Wash. Log-chock. No. 934,684; Sept. 21; Sp. p. 3449; Gaz. vol. 146; p. 600.
- MacLafferty, T. H., Tenino, Wash. Car-stake. No. 944,739; Dec. 28; Sp. p. 5842; Gaz. vol. 149; p. 1009.
- MacMahon, C., Toledo, Ohio. Corset. No. 942,786; Dec. 7; Sp. p. 1556; Gaz. vol. 149; p. 256.
- MacMahon, J. A., Philadelphia, Pa. Fender or trolley-wheel guard. No. 941,790; Nov. 30; Sp. p. 7347; Gaz. vol. 148; p. 1238.
- MacMartin, J., Albany, N. Y. Insulated rail-joint. No. 910,558; Jan. 26; Sp. p. 4367; Gaz. vol. 138; p. 800.
- MacMurchy, J. A., Wilkensburg, Pa., assignor to Westinghouse Machine Company. Elastic-fluid turbine. No. 908,788; Jan. 5; Sp. p. 746; Gaz. vol. 138; p. 117.
- MacRae, A. W. (See Atkins, W., assignor.)
- MacRae Company. (See McCarthy, L., assignor.)
- MacCarthy, F., assignor of one-half to Sayre & Fisher Company, Sayreville, N. J. Kiln. No. 919,902; Apr. 27; Sp. p. 6305; Gaz. vol. 141; p. 1077.
- Macaulay, A. (See Cleal and Macaulay.)
- Macbeth, A. D. (See Fassett and Macbeth.)
- Macbeth, C. E., assignor to Long & Allstatter Company, Hamilton, Ohio. Multiple punching-machine. No. 942,272; Dec. 7; Sp. p. 517; Gaz. vol. 149; p. 81.
- Macbeth, C. E., and F. C. Stiening, assignors to Long and Alstatter Company, Hamilton, Ohio. Punch gag mechanism. No. 931,781; Aug. 24; Sp. p. 4577; Gaz. vol. 145; p. 793.
- Macbeth, C. E., and F. C. Stiening, assignors to Long & Allstatter Company, Hamilton, Ohio. Rail-splitting shears. No. 933,088; Sept. 7; Sp. p. 104; Gaz. vol. 146; p. 18.
- Macbeth-Evans Glass Company. (See Macbeth and Schnellbach, assignors.)
- Macbeth-Evans Glass Company. (See Schnellbach and Heupel, assignors.)
- Macbeth-Evans Glass Company. (See Schnellbach and Schatz, assignors.)
- Macbeth, G. A., Pittsburg, and H. A. Schnellbach, Crafton, assignors to Macbeth-Evans Glass Company, Pittsburg, Pa. Glass-blowing machine. No. 929,456; July 27; Sp. p. 5701; Gaz. vol. 144; p. 1001.
- Macbeth, J., Dayton, Ohio. Concrete-wall construction. No. 938,678; Nov. 2; Sp. p. 520; Gaz. vol. 148; p. 79.
- Macbeth, N., Dunnall, St. Ann's-on-the-Sea, England. Tire. No. 918,684; Apr. 20; Sp. p. 3588; Gaz. vol. 141; p. 637.
- Macconn, A. E., and M. Killeen, Braddock, Pa. Ladle for molten metal. No. 914,738; Mar. 9; Sp. p. 2292; Gaz. vol. 140; p. 383.
- Maccuiga, D. A., Nebraska City, Nebr. Caster-retaining device. No. 921,132; May 11; Sp. p. 2116; Gaz. vol. 142; p. 373.
- Maccuiga, D. A., Nebraska City, Nebr. Caster-retaining device. No. 921,133; May 11; Sp. p. 2117; Gaz. vol. 142; p. 373.
- Maccuiga, D. A., Nebraska City, Nebr. Caster-retaining device. No. 929,964; Aug. 3; Sp. p. 723; Gaz. vol. 145; p. 115.
- Maccuiga, D. A., Nebraska City, Nebr. Caster socket member. No. 933,258; Sept. 7; Sp. p. 526; Gaz. vol. 146; p. 80.
- Maccuiga, D. A., Nebraska City, Nebr. Caster-retaining socket. No. 943,432; Dec. 14; Sp. p. 2994; Gaz. vol. 149; p. 505.
- Macculloch, A. G., Kensington, England. Race game and recreation apparatus. No. 918,343; Apr. 13; Sp. p. 2803; Gaz. vol. 141; p. 496.
- Macdonald, A., Whiteinch, Scotland. Emery-wheel drive in machines for grinding, turning, and finishing shafts, piston-rods, pins, tools, &c. No. 916,174; Mar. 23; Sp. p. 5130; Gaz. vol. 140; p. 908.
- Macdonald, D., London, England. Leaf-turner. No. 917,782; Apr. 13; Sp. p. 1648; Gaz. vol. 141; p. 306.
- Macdonald, H. P., Montclair, assignor to Sneed & Company Iron Works, Jersey City, N. J. Sand-ramming machine. No. 941,023; Nov. 23; Sp. p. 5699; Gaz. vol. 148; p. 962.
- Macdonald, J. H., Beverly, Mass. Tire-upsetter. No. 931,325; Aug. 17; Sp. p. 3612; Gaz. vol. 145; p. 623.
- Macdonald, N. J., Irish Cove, Nova Scotia, Canada. Envelop. No. 936,790; Oct. 12; Sp. p. 2486; Gaz. vol. 147; p. 415.
- Macdonald, T. A., Clifton, N. J. Window clothes-line support. No. 934,433; Dec. 14; Sp. p. 2998; Gaz. vol. 149; p. 506.
- Macdonald, T. H., assignor to American Graphophone Company, Bridgeport, Conn. Foot control for graphophones. No. 934,450; Sept. 21; Sp. p. 2990; Gaz. vol. 146; p. 521.
- Macdonald, T. H., assignor to American Graphophone Company, Bridgeport, Conn. Start and stop mechanism for graphophones. No. 934,451; Sept. 21; Sp. p. 2992; Gaz. vol. 146; p. 522.
- Macdonald, T. H., assignor to American Graphophone Company, Bridgeport, Conn. Graphophone. No. 936,646; Oct. 12; Sp. p. 2214; Gaz. vol. 147; p. 366.
- Macdonald, T. H., assignor to American Graphophone Company, Bridgeport, Conn. Phonic apparatus. No. 942,089; Dec. 7; Sp. p. 113; Gaz. vol. 149; p. 19.
- Mace, J. O., Grundyville, Tex. Fence-post. No. 940,173; Nov. 16; Sp. p. 3831; Gaz. vol. 148; p. 650.
- Macfarlane, W. P. A., Chicago, Ill. Fluid-pressure brake. No. 926,068; June 22; Sp. p. 6235; Gaz. vol. 143; p. 1075.
- Macfarlane, W. P. A., assignor to R. Fitzgerald, Chicago, Ill. Fluid-pressure brake. No. 941,684; Nov. 30; Sp. p. 7106; Gaz. vol. 148; p. 1201.
- Machine Labelling Company. (See Thornhill, G. A., assignor.)
- Machine Mantle Sewing Company. (See Cohn, S., assignor.)
- Machlet, G., Jr., Elizabeth, N. J. Apparatus for producing perforated music-record sheets. No. 942,398; Dec. 7; Sp. p. 759; Gaz. vol. 149; p. 124.
- Mack, C. F., assignor of one-half to R. F. Strayer, York, Pa. Machine embroidery-needle. No. 914,664; Mar. 9; Sp. p. 2107; Gaz. vol. 140; p. 358.
- Mack, C. F., York, Pa., assignor of one-half to R. F. Strayer, New York, N. Y. Amusement device. No. 944,452; Dec. 28; Sp. p. 5196; Gaz. vol. 149; p. 910.
- Mack, E., Axtell, Kans. Plow-lay holder. No. 923,675; June 1; Sp. p. 1241; Gaz. vol. 143; p. 192.
- Mack, J. A., Salida, Colo. Rotary engine. No. 939,609; Nov. 9; Sp. p. 2580; Gaz. vol. 148; p. 424.
- Mack, S. C., Trenton, N. J. Bent-wound tank. No. 915,981; Mar. 23; Sp. p. 4780; Gaz. vol. 140; p. 845.
- Mack, V. E., Kansas City, Mo. Corset. No. 908,789; Jan. 5; Sp. p. 748; Gaz. vol. 138; p. 118.
- Mack, W., Chicago, Ill. Sidewalk-squeegee. No. 917,330; Apr. 6; Sp. p. 769; Gaz. vol. 141; p. 131.
- Mack, W. A., Salinas, Cal. Oil-burner. No. 935,530; Sept. 28; Sp. p. 5145; Gaz. vol. 146; p. 904.
- Mack, W. A., assignor to Standard Sewing Machine Company, Cleveland, Ohio. Sewing-machine. No. 942,090; Dec. 7; Sp. p. 116; Gaz. vol. 149; p. 19.
- Mack, W. J., Buffalo, N. Y. Draft-rigging for railway-cars. No. 927,737; July 13; Sp. p. 2147; Gaz. vol. 144; p. 372.
- Mack, W. J., assignor of one-half to C. D. Dilemuth, Buffalo, N. Y. Cherry-pitter. No. 911,828; Feb. 9; Sp. p. 1574; Gaz. vol. 139; p. 293.
- Mackness, G., Drummoyne, Sydney, New South Wales, assignor of one-half to J. Barnes, Mosman, Sydney, Australia. Screw-propeller. No. 921,423; May 11; Sp. p. 2736; Gaz. vol. 142; p. 471.
- Mackay, E. (See Ferrall and Mackay.)
- Mackay, G. D., Chappaqua, N. Y. Garment supporter and adjuster. No. 933,191; Sept. 7; Sp. p. 344; Gaz. vol. 146; p. 55.
- Mackay, H., El Paso, Tex. Leather product and making the same. No. 911,140; Feb. 2; Sp. p. 234; Gaz. vol. 139; p. 42.
- Mackie, F. W. (See Walton and Mackie.)
- Mackenzie, F. F., New York, N. Y. Marking and cutting goods for garments. No. 943,947; Dec. 21; Sp. p. 4117; Gaz. vol. 149; p. 713.
- Mackenzie, J. (See Greear and Mackenzie.)
- Mackenzie, J., and A. Mercer, assignors to Meters Limited, Manchester, England. Prepayment gas-meter and other coin-freed apparatus. No. 930,398; Aug. 10; Sp. p. 1565; Gaz. vol. 145; p. 283.
- Mackenzie, W. A. (See Doane and Ceeder, assignors.)
- Mackerey, C. J., Philadelphia, Pa. Fluid-controller. No. 934,001; Sept. 14; Sp. p. 2105; Gaz. vol. 146; p. 347.
- Mackey, A. A. (See Mackey, F. W., assignor.)
- Mackey, A. S., Ottawa, Ontario, Canada. Hinge for gate-frames. No. 914,437; Mar. 9; Sp. p. 1661; Gaz. vol. 140; p. 284.
- Mackey, F. W., assignor of one-half to A. A. Mackey, Silver Creek, N. Y. Water-motor. No. 924,808; June 15; Sp. p. 3682; Gaz. vol. 143; p. 631.
- Mackey, J., Cape Horn, Wash. Invalid-bed. No. 924,083; June 8; Sp. p. 2127; Gaz. vol. 143; p. 355.
- Mackey, J., New York, N. Y. Making visors for caps. No. 926,343; June 29; Sp. p. 6822; Gaz. vol. 143; p. 1200.
- Mackie, A., Jr. (See Schmidt and Mackie.)
- Mackie, E. M. (See Thompson and Mackie.)
- Mackie, E. M. (See Thompson, Mackie, and Doyle.)
- Mackie-Lovejoy Manufacturing Company. (See Deknatel, F. H., assignor.)
- Mackie, M. W. W., Ealing, England. Dynamo-electric machine. No. 909,197; Jan. 12; Sp. p. 1579; Gaz. vol. 138; p. 284.
- Mackie, W. A., et al. (See Haile, L. T., assignor.)



*Alphabetical list of patentees—Continued.*

- Mackinney, H. G., Providence, R. I. Resilient vehicle-wheel. No. 923,436; June 1; Sp. p. 726; Gaz. vol. 143; p. 108.
- Mackintosh, C., Oakland, Cal. Faucet-filter. No. 915,616; Mar. 16; Sp. p. 4038; Gaz. vol. 140; p. 698.
- Mackintosh, F., Schenectady, N. Y., assignor to General Electric Company. Combined switch and fuse-plug. No. 940,174; Nov. 16; Sp. p. 3833; Gaz. vol. 148; p. 650.
- Mackie, W. J., St. Louis, Mo., assignor to J. G. Brill Company, Philadelphia, Pa. Passenger-car. No. 918,344; Apr. 13; Sp. p. 2808; Gaz. vol. 141; p. 496.
- MacLagan, J., assignor of one-half to C. F. McMannus, New York, N. Y. Record-card. No. 912,969; Feb. 16; Sp. p. 4020; Gaz. vol. 139; p. 705.
- Macleod, A. J., West Hartlepool, England. Life-saving apparatus for use at sea. No. 926,268; June 29; Sp. p. 6671; Gaz. vol. 143; p. 1177.
- Macloskie, G., Schenectady, N. Y., assignor to General Electric Company. Air-brake system. No. 910,402; Jan. 19; Sp. p. 4023; Gaz. vol. 138; p. 722.
- Macloskie, G., Jr., Schenectady, N. Y., assignor to General Electric Company. Air-brake system. No. 912,269; Feb. 9; Sp. p. 2532; Gaz. vol. 139; p. 435.
- Macloskie, G., Schenectady, N. Y., assignor to General Electric Company. Air-brake system. No. 917,091; Apr. 6; Sp. p. 262; Gaz. vol. 141; p. 48.
- Macloskie, G., Schenectady, N. Y., assignor to General Electric Company. Automatic air-brake system. No. 919,609; Apr. 27; Sp. p. 5696; Gaz. vol. 141; p. 980.
- Macloskie, G., Schenectady, N. Y., assignor to General Electric Company. Air-brake system. No. 937,452; Oct. 19; Sp. p. 3888; Gaz. vol. 147; p. 661.
- Macnish, F. J., Oak Park, assignor to Creamery Package Manufacturing Company, Chicago, Ill. Apparatus for coating containers. No. 913,964; Mar. 2; Sp. p. 645; Gaz. vol. 140; p. 101.
- Macnish, F. J., Oak Park, Ill., and W. E. Penn, Lakemills, Wis., assignors to Creamery Package Manufacturing Company, Chicago, Ill. Butter-cutter. No. 923,544; June 1; Sp. p. 949; Gaz. vol. 143; p. 147.
- Macomber, J. E., assignor to Consolidated Car Heating Company, Albany, N. Y. Electric heater. No. 931,013; Aug. 10; Sp. p. 2902; Gaz. vol. 145; p. 488.
- Macomber, M. A., Perry, N. Y. Paper-bag holder. No. 925,363; June 15; Sp. p. 4763; Gaz. vol. 143; p. 813.
- Macomber, W. G., Johannesburg, Cal. Internal-combustion rotary engine. No. 933,316; Sept. 7; Sp. p. 638; Gaz. vol. 146; p. 99.
- Macomber, W. I., Providence, R. I. Safety-catch for stick-pins and similar articles of jewelry. No. 914,150; Mar. 2; Sp. p. 1052; Gaz. vol. 140; p. 167.
- Macon, E. W. (See Macon, J. B. and E. W.)
- Macon, J. B. and E. W., Rector, Ark. Display-box for stores. No. 929,457; July 27; Sp. p. 5704; Gaz. vol. 144; p. 1001.
- Maconochie, R. (See Rhodes and Maconochie.)
- Macphail, J., Blue Island, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Supporting and moving device for harvesters, &c. No. 943,090; Dec. 14; Sp. p. 2300; Gaz. vol. 149; p. 390.
- Macpherson, P., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 935,671; Oct. 5; Sp. p. 98; Gaz. vol. 147; p. 17.
- Macris, A., Juneau, Alaska. Windmill. No. 910,701; Jan. 26; Sp. p. 4646; Gaz. vol. 138; p. 844.
- Macy, A. A. (See Woodruff and Macy.)
- Macy, B. W., Orlando, Fla. Electric switch. No. 910,835; Jan. 26; Sp. p. 4920; Gaz. vol. 138; p. 888.
- Macy, C. U., Irvington, N. J. Pyrographic burner. No. 929,614; July 27; Sp. p. 6017; Gaz. vol. 144; p. 1053.
- Macy, L. M., Adel, Iowa. Ice-cutting machine. No. 926,666; June 29; Sp. p. 7414; Gaz. vol. 143; p. 1307.
- Madara, M. (See Kocsis, P., assignor.)
- Madden, F. V., Vanderbilt, Pa. Hinge. No. 929,615; July 27; Sp. p. 6018; Gaz. vol. 144; p. 1053.
- Madden, H. E., Hebron, Ohio. Vegetable slicing and cutting machine. No. 944,491; Dec. 28; Sp. p. 5293; Gaz. vol. 149; p. 924.
- Madden, J. J. (See Riddell and Madden.)
- Madden, P. J., Chicago, Ill. Valve device for water-closets. No. 926,887; July 6; Sp. p. 379; Gaz. vol. 144; p. 61.
- Madden, P. J., Chicago, Ill. Water-closet. No. 931,937; Aug. 24; Sp. p. 4916; Gaz. vol. 145; p. 844.
- Madden, P. J., Chicago, Ill. Water-closet. No. 931,938; Aug. 24; Sp. p. 4920; Gaz. vol. 145; p. 844.
- Madden, P. J., Chicago, Ill. Valve device for plumbing-fixtures. No. 931,939; Aug. 24; Sp. p. 4921; Gaz. vol. 145; p. 845.
- Madden, P. J., Chicago, Ill. Plumbing-fixture. No. 931,940; Aug. 24; Sp. p. 4923; Gaz. vol. 145; p. 845.
- Madden, P. J., Chicago, Ill. Plumbing-fixture. No. 931,941; Aug. 24; Sp. p. 4925; Gaz. vol. 145; p. 845.
- Maddock, H. S., assignor to Thomas Maddock's Sons Co., Trenton, N. J. Water-closet coupling. No. 936,919; Oct. 12; Sp. p. 2742; Gaz. vol. 147; p. 458.
- Maddox, J. D., Culverton, Ga. Cotton-chopper. No. 915,456; Mar. 16; Sp. p. 3708; Gaz. vol. 140; p. 644.
- Maddox, J. W., Jamestown, N. Y. Oiling device. No. 935,917; Oct. 5; Sp. p. 683; Gaz. vol. 147; p. 99.
- Maddox, W. J., Jamestown, N. Y. Shelf or stretcher fastener for knockdown tables, &c. No. 924,084; June 8; Sp. p. 2128; Gaz. vol. 143; p. 355.
- Maddox, W. J., Jamestown, N. Y. Knockdown table. No. 924,809; June 15; Sp. p. 3687; Gaz. vol. 143; p. 631.
- Maddux, C. M., Muncie, Ind. Gage for the spacing apart of concrete building-blocks. No. 915,982; Mar. 23; Sp. p. 4781; Gaz. vol. 140; p. 845.
- Mader, A. W., Seguin, Tex. Tongue for farm implements. No. 910,076; Jan. 19; Sp. p. 3313; Gaz. vol. 138; p. 610.
- Mader, A. W., Seguin, Tex. Skirt-supporter. No. 910,077; Jan. 19; Sp. p. 3314; Gaz. vol. 138; p. 610.
- Madill, R. B., and R. E. Mikesell, Coral, Pa. Garment-protector. No. 932,990; Aug. 31; Sp. p. 7066; Gaz. vol. 145; p. 1215.
- Madison, A. L., Brooklyn, assignor to Wilcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machine. No. 944,740; Dec. 28; Sp. p. 5843; Gaz. vol. 149; p. 1009.
- Madison, G. A., St. Louis, Mo. Cap for hose-couplings. No. 923,545; June 1; Sp. p. 953; Gaz. vol. 143; p. 148.
- Madsen, F., Wilbur, Wash. Stove. No. 934,739; Sept. 21; Sp. p. 3548; Gaz. vol. 146; p. 618.
- Madsen, G. C., assignor of one-half to T. T. Schouler, Worcester, Mass. Water-heater. No. 940,980; Nov. 23; Sp. p. 5595; Gaz. vol. 148; p. 947.
- Madson, C. C., Lanesboro, Minn. Ice-making appliance. No. 938,259; Oct. 26; Sp. p. 5566; Gaz. vol. 147; p. 951.
- Maechler, C., New York, N. Y. Shutter attachment. No. 918,345; Apr. 13; Sp. p. 2509; Gaz. vol. 141; p. 497.
- Maechler, W., Chicago, Ill. Animal-trap. No. 912,863; Feb. 16; Sp. p. 3818; Gaz. vol. 139; p. 673.
- Maeder, E., St. Louis, Mo. Brush-handle. No. 919,610; Apr. 27; Sp. p. 5701; Gaz. vol. 141; p. 980.
- Maegly, F. C., Chicago, Ill. Scale-ticket. No. 918,067; Apr. 13; Sp. p. 2253; Gaz. vol. 141; p. 404.
- Maegly, F. C., Chicago, Ill. Scale-ticket. No. 918,346; Apr. 13; Sp. p. 2811; Gaz. vol. 141; p. 497.
- Maegly, G. B., Kansas City, Mo. Paper-feeding machine. No. 938,006; Oct. 26; Sp. p. 5018; Gaz. vol. 147; p. 854.
- Maenche, A. T., Waltham, Mass., assignor to Judson L. Thomson M'fg Company. Fastening device. No. 921,134; May 11; Sp. p. 2118; Gaz. vol. 142; p. 373.
- Maes, C., and J. Y. Armijo, Santa Rosa, N. Mex. Ter. Lamp-extinguisher. No. 912,864; Feb. 16; Sp. p. 3819; Gaz. vol. 139; p. 673.
- Magaldi, G., Buccino, near Salerno, Italy. Metallic elastic tire for vehicles. No. 936,142; Oct. 5; Sp. p. 1147; Gaz. vol. 147; p. 174.
- Magdiel, D. H. (See Magdiel, J. H. and D. H.)
- Magdiel, D. H., assignor of one-third to J. H. Magdiel and one-third to N. L. Morris, Salt Lake City, Utah. Fireproof floor, (I-beam construction.) No. 914,589; Mar. 9; Sp. p. 1963; Gaz. vol. 140; p. 335.
- Magdiel, J. H., *et al.* (See Magdiel, D. H., assignor.)
- Magdiel, J. H., assignor to Magdiel-Morris Manufacturing Company, Salt Lake City, Utah. Fireproof floor, (concrete beam.) No. 923,363; June 1; Sp. p. 583; Gaz. vol. 143; p. 84.
- Magdiel, J. H., assignor to Magdiel-Morris Manufacturing Company, Salt Lake City, Utah. One-side mold for concrete walls. No. 926,269; June 29; Sp. p. 6672; Gaz. vol. 143; p. 1178.
- Magdiel, J. H., assignor to Magdiel-Morris Manufacturing Company, Salt Lake City, Utah. Mold for concrete columns. No. 929,148; July 27; Sp. p. 5068; Gaz. vol. 144; p. 900.
- Magdiel, J. H., assignor to Magdiel-Morris Manufacturing Company, Salt Lake City, Utah. Composite wall and constructing same. No. 939,726; Nov. 9; Sp. p. 2818; Gaz. vol. 148; p. 466.
- Magdiel, J. H. and D. H., assignors of one-third to N. L. Morris, Salt Lake City, Utah. Concrete frame for door and window openings. No. 914,590; Mar. 9; Sp. p. 1966; Gaz. vol. 140; p. 335.
- Magdiel, J. H. and D. H., assignors of one-third to N. L. Morris, Salt Lake City, Utah. Conveyer. No. 917,331; Apr. 6; Sp. p. 770; Gaz. vol. 141; p. 131.
- Magdiel-Morris Manufacturing Company. (See Magdiel, J. H., assignor.)
- Magge, H. I., assignor to Ivins, Dietz & Metzger Company, Philadelphia, Pa. Machine for shearing woven pile fabrics. No. 918,349; Apr. 13; Sp. p. 2815; Gaz. vol. 141; p. 498.
- Magge, J. H. (See Jordan, R. T., assignor.)
- Mager, G. A. J. (See Martin, B. M., assignor.)
- Mager, L. D., Garrett, Ind. Feed-valve for steam-boilers. No. 944,683; Dec. 28; Sp. p. 5705; Gaz. vol. 149; p. 990.
- Maggio, P., New York, N. Y. Gas-hose attachment. No. 911,250; Feb. 2; Sp. p. 457; Gaz. vol. 139; p. 78.

*Alphabetical list of patentees—Continued.*

- Magidson, F., assignor to Westmoreland Automatic Machine Company, Irwin, Pa. Coin-controlled apparatus. No. 918,455; Apr. 13; Sp. p. 3025; Gaz. vol. 141; p. 532.
- Magidson, F., assignor to Westmoreland Automatic Machine Company, Irwin, Pa. Shoe-polishing machine. No. 919,903; Apr. 27; Sp. p. 6307; Gaz. vol. 141; p. 1077.
- Magidson, F., Pittsburg, assignor to Westmoreland Automatic Machine Company, Irwin, Pa. Coin-controlled apparatus. No. 919,904; Apr. 27; Sp. p. 6309; Gaz. vol. 141; p. 1078.
- Magie, W. R., Indianapolis, Ind. Machine for wiring sheet metal. No. 943,118; Dec. 14; Sp. p. 2358; Gaz. vol. 149; p. 400.
- Maginn, J. H. (See Cornman, W. W., assignor.)
- Maginn, M., Chicago, Ill. Surface street or road railway for automobiles and other vehicles. No. 912,478; Feb. 16; Sp. p. 2996; Gaz. vol. 139; p. 542.
- Magnanelli, J. (See Morie and Magnanelli.)
- Magnant, N., Berlin, N. H. Pulp-screen. No. 909,006; Jan. 5; Sp. p. 1181; Gaz. vol. 138; p. 188.
- Magnetic Equipment Company. (See Wells, C. A., assignor.) (Reissue.)
- Magnus, E. C. (See Soenneken and Magnus.)
- Magnus, E. C., Bonn, Germany. Device for handling type-writer ribbons. No. 922,927; May 25; Sp. p. 5851; Gaz. vol. 142; p. 1019.
- Magnus, H., Chicago, Ill. Body-garment. No. 919,740; Apr. 27; Sp. p. 5956; Gaz. vol. 141; p. 1023.
- Magone, H. P., Race Track, Mont. Plate-lifter. No. 916,175; Mar. 23; Sp. p. 5131; Gaz. vol. 140; p. 908.
- Magone, H. P., Race Track, Mont. Hose-coupling. No. 925,713; June 22; Sp. p. 5488; Gaz. vol. 143; p. 957.
- Magoris, A. E., Binghamton, N. Y. Making caskets or burial-vaults. No. 925,929; June 22; Sp. p. 5961; Gaz. vol. 143; p. 1029.
- Magowan, F. A., New York, N. Y., assignor to Multiplex Tube and Tire Company, Jersey City, N. J. Making rubber tires and tubes. No. 917,958; Apr. 13; Sp. p. 2006; Gaz. vol. 141; p. 365.
- Magruder, C. H., Shelbina, Mo. Means for preventing rails from spreading. No. 922,928; May 25; Sp. p. 5852; Gaz. vol. 142; p. 1020.
- Magruder, J. A., Brookland, D. C. Calyx-repair device. No. 910,300; Jan. 19; Sp. p. 3820; Gaz. vol. 138; p. 688.
- Magruder, P. K., San Antonio, Tex. Lock-escutcheon. No. 940,261; Nov. 16; Sp. p. 4009; Gaz. vol. 148; p. 682.
- Magui, A., assignor of one-third to J. M. Ehrlich and one-third to M. D. Greengard, New York, N. Y. Bag. No. 924,167; June 8; Sp. p. 2337; Gaz. vol. 143; p. 383.
- Maguire, J. C., Malone, N. Y. Sash-holder. No. 915,779; Mar. 23; Sp. p. 4402; Gaz. vol. 140; p. 781.
- Mahan, G. W., Cold Spring Harbor, N. Y. Car-fender. No. 931,326; Aug. 17; Sp. p. 3614; Gaz. vol. 145; p. 623.
- Mahan, G. W., Cold Spring Harbor, N. Y. Wheel-guard. No. 934,925; Sept. 21; Sp. p. 3919; Gaz. vol. 146; p. 679.
- Mahan, J. C., Creekside, Pa. Scythe-fastening device. No. 916,744; Mar. 30; Sp. p. 6245; Gaz. vol. 140; p. 1117.
- Mahan, J. J., and J. F. Moran, Jersey City, N. J. Toy. No. 911,602; Feb. 9; Sp. p. 1131; Gaz. vol. 139; p. 218.
- Mahanay, A. J., Arlington, Tex. Device for exterminating boll-weevil. No. 910,933; Jan. 26; Sp. p. 5099; Gaz. vol. 138; p. 919.
- Maher, C. A., Ottawa, Ill. Eye-cup. No. 914,295; Mar. 2; Sp. p. 1363; Gaz. vol. 140; p. 211.
- Mahon, E. C., assignor of one-half to A. J. McDade, Dubuque, Iowa. Calendar. No. 941,719; Nov. 30; Sp. p. 7202; Gaz. vol. 148; p. 1214.
- Mahon, W. G. (See Schafer and Hills, assignors.)
- Mahone, C. R., assignor of one-fourth to W. A. Klevesahl, Richmond, Va. Press for lump-tobacco. No. 911,312; Feb. 2; Sp. p. 569; Gaz. vol. 139; p. 98.
- Mahoney, D., Bonanza, Colo. Boiler-cleaner. No. 918,178; Apr. 13; Sp. p. 2462; Gaz. vol. 141; p. 441.
- Mahoney, F. J. (See Lacey, K. M., assignor.)
- Mahoney, G., and F. A. Rounds, Le Roy, Minn. Culvert. No. 928,265; July 20; Sp. p. 3264; Gaz. vol. 144; p. 530.
- Mahoney, J. E., Chattanooga, Tenn. Crate. No. 933,911; Sept. 14; Sp. p. 1942; Gaz. vol. 146; p. 319.
- Mahoney, J. N., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. System of electric-motor control. No. 938,160; Oct. 26; Sp. p. 5369; Gaz. vol. 147; p. 916.
- Mahoney, J. P., Atlanta, Ga. Folding coop or crate. No. 922,606; May 25; Sp. p. 5170; Gaz. vol. 142; p. 915.
- Mahoney, T., Los Angeles, Cal. Dental tool. No. 933,718; Sept. 7; Sp. p. 1548; Gaz. vol. 146; p. 235.
- Mahony, A. L., Boston, Mass. Sheet-metal can. No. 929,865; Aug. 3; Sp. p. 512; Gaz. vol. 145; p. 83.
- Mahr, A. J., St. Louis, Mo. Rail joint and brace. No. 937,621; Oct. 19; Sp. p. 4220; Gaz. vol. 147; p. 718.
- Mahurin, M. B., Muskingum township, Washington county, Ohio. Flushing-valve. No. 944,098; Dec. 21; Sp. p. 4431; Gaz. vol. 149; p. 764.
- Maiden, L. A., Meridian, Miss. Fireplace attachment. No. 926,344; June 29; Sp. p. 6823; Gaz. vol. 143; p. 1200.
- Maidhof, H. S., New York, N. Y. Seal-press. No. 911,251; Feb. 2; Sp. p. 458; Gaz. vol. 139; p. 79.
- Maier, C. M. (See Valtauer, A., assignor.)
- Maier, J. J., Atlanta, Ga. Ventilator. No. 937,254; Oct. 19; Sp. p. 3458; Gaz. vol. 147; p. 597.
- Maier, J. J., assignor to Dowman-Dozier Manufacturing Company, Atlanta, Ga. Skylight. No. 918,876; Apr. 20; Sp. p. 3990; Gaz. vol. 141; p. 701.
- Maier, M., executrix. (See Rademacher, F., assignor.)
- Maier, W., assignor of one-third to himself, one-third to S. H. Koopmans, and one-third to H. R. Hoffeld, Buffalo, N. Y. Caster. No. 932,038; Aug. 24; Sp. p. 5141; Gaz. vol. 145; p. 878.
- Maier, W., assignor of one-third to himself, one-third to S. H. Koopmans, and one-third to H. R. Hoffeld, Buffalo, N. Y. Cushion for the bottoms of chair-legs, &c. No. 938,883; Nov. 2; Sp. p. 941; Gaz. vol. 148; p. 149.
- Maier, W., Stuttgart, assignor to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel-Gaarden, Germany. Ship's-screw-driving mechanism for submarine boats. No. 943,434; Dec. 14; Sp. p. 3000; Gaz. vol. 149; p. 506.
- Maignen, P. J. A., Philadelphia, Pa. Washing filter-sand. No. 924,682; June 15; Sp. p. 3416; Gaz. vol. 143; p. 588.
- Maignen, P. J. A., Philadelphia, Pa. Separating suspended matter from liquids containing mineral value. No. 932,795; Aug. 31; Sp. p. 6720; Gaz. vol. 145; p. 1152.
- Majgren, T., assignor to Electro Surgical Instrument Company, Rochester, N. Y. Electric coupling. No. 930,873; Aug. 10; Sp. p. 2568; Gaz. vol. 145; p. 443.
- Maillox, C. O., and H. J. Westover, New York, N. Y. Draft-regulating apparatus. No. 935,763; Oct. 5; Sp. p. 300; Gaz. vol. 147; p. 48.
- Maillox, C. O., and H. J. Westover, New York, N. Y. Gas-analyzer for furnaces. No. 942,861; Dec. 7; Sp. p. 1725; Gaz. vol. 149; p. 280.
- Main, D. M., Cheney, Kans. Automatic collecting and delivering apparatus. No. 908,589; Jan. 5; Sp. p. 334; Gaz. vol. 138; p. 54.
- Main, E. D., administratrix. (See Main, M. D.)
- Main, M. D., deceased, Cortland, N. Y.; E. D. Main, administratrix. Horse hay-fork. No. 943,618; Dec. 14; Sp. p. 3421; Gaz. vol. 149; p. 570.
- Main, W. F., Salt Lake City, Utah. Variable-speed device. No. 939,427; Nov. 9; Sp. p. 2190; Gaz. vol. 148; p. 363.
- Mains, G. A., deceased, (G. H. Mueller, administrator,) assignor of one-half to G. H. Mueller, Spokane, Wash. Mail-bag-delivery apparatus. No. 922,707; May 25; Sp. p. 5377; Gaz. vol. 142; p. 948.
- Maire, G. H., Seattle, Wash. Electric-railway system. No. 943,196; Dec. 14; Sp. p. 2504; Gaz. vol. 149; p. 425.
- Maisch, E. A., Anderson, Cal. Incubator. No. 938,260; Oct. 26; Sp. p. 5567; Gaz. vol. 147; p. 951.
- Maisel, L., Beloit, Wis. Measuring device. No. 933,773; Sept. 14; Sp. p. 1656; Gaz. vol. 146; p. 274.
- Maisel, L., executrix. (See Maitland, J.)
- Maitland, J., Swampscott, Mass. Slack take-up for pendant electric lights. No. 925,004; June 15; Sp. p. 4103; Gaz. vol. 143; p. 698.
- Maitland, J., deceased, Cohoes, N. Y.; I. Maitland, executrix. Machine for making spring knitting-needles. No. 930,978; Aug. 10; Sp. p. 2802; Gaz. vol. 145; p. 475.
- Maitland, J., Swampscott, assignor to Reece Button Hole Machine Company, Boston, Mass. Clutch mechanism. No. 909,810; Jan. 12; Sp. p. 2770; Gaz. vol. 138; p. 488.
- Maitland, J., Swampscott, assignor to Reece Button Hole Machine Company, Boston, Mass. Thread-controlling means for sewing-machines. No. 937,705; Oct. 19; Sp. p. 4388; Gaz. vol. 147; p. 745.
- Maitland, J. L., Passaic, assignor of one-third to W. A. Callanan, Jersey City, and one-third to C. Rider, Mountainville, N. J. Pneumatic tire. No. 939,428; Nov. 9; Sp. p. 2191; Gaz. vol. 148; p. 364.
- Matxner, S. J., Rozel, Kans. Attachment for wheat-binders. No. 923,676; June 1; Sp. p. 1242; Gaz. vol. 143; p. 192.
- Majert, W., Berlin, Germany. Treating metallic filaments for electric incandescent lamps. No. 926,069; June 22; Sp. p. 6241; Gaz. vol. 143; p. 1075.
- Majestic Manufacturing Company. (See Henry, F. R., assignor.)
- Majestic Manufacturing Company. (See Stockton, R. H., assignor.)
- Majette, M., Columbia, N. C. Standard attachment for logging-cars. No. 940,262; Nov. 16; Sp. p. 4010; Gaz. vol. 148; p. 683.
- Major, T. (See Eilerman, Grimes, and Major.)
- Majors, J., and R. P. Fitzgerald, Charleroi, Pa. Metallic tie and rail-fastener. No. 920,596; May 4; Sp. p. 1019; Gaz. vol. 142; p. 166.
- Makean, D. O., assignor of twenty-five one-hundredths to G. W. Fowler, Binghamton, N. Y. Mechanical movement. No. 921,424; May 11; Sp. p. 2738; Gaz. vol. 142; p. 471.
- Makean, D. O., assignor of one-fourth to H. A. Lacey, Binghamton, N. Y. Mechanical movement. No. 923,191; June 1; Sp. p. 149; Gaz. vol. 143; p. 24.
- Maki, M., Lakota, N. D. Snap-hook. No. 939,727; Nov. 9; Sp. p. 2822; Gaz. vol. 148; p. 466.
- Malaby, J. G., Foreman, Ark. Mosquito-bar frame. No. 927,738; July 13; Sp. p. 2151; Gaz. vol. 144; p. 372.



*Alphabetical list of patentees—Continued.*

- Malasomma, A. R., New York, N. Y. Flying-machine. No. 935,039; Sept. 28; Sp. p. 4149; Gaz. vol. 146; p. 744.
- Malcolm, A., Grangemouth, Scotland. Steam-trap. No. 915,780; Mar. 23; Sp. p. 4402; Gaz. vol. 140; p. 781.
- Malcolm, O. F., Joplin, Mo. Machine for fixing blasting charges. No. 913,745; Mar. 2; Sp. p. 144; Gaz. vol. 140; p. 25.
- Malcom, J. F., Bluffton, assignor of one-half to A. L. Meeks, Montpelier, Ind. Oil-vaporizer. No. 940,981; Nov. 23; Sp. p. 5597; Gaz. vol. 148; p. 948.
- Malecek, C. J. (See Goldman, S. S., assignor.)
- Maley, T. H., Goodhue, Minn. Machine for digging roots. No. 911,417; Feb. 2; Sp. p. 763; Gaz. vol. 139; p. 133.
- Malinovskiy, A., Schenectady, N. Y. Casket. No. 936,003; Oct. 5; Sp. p. 854; Gaz. vol. 147; p. 128.
- Mallabar, H. J., Liverpool, assignor to Synoloids Limited, London, England. Printing and developing photographs on silver chlorid paper. No. 918,347; Apr. 13; Sp. p. 2813; Gaz. vol. 141; p. 497.
- Mallam, G. H., assignor to National Perforating Machine Company, Kansas City, Mo. Adjustable cam-wheel. No. 908,790; Jan. 5; Sp. p. 749; Gaz. vol. 138; p. 118.
- Mallard, L. L., assignor to Paragon Suspender Co., Atlanta, Ga. Belt-buckle. No. 912,865; Feb. 16; Sp. p. 3820; Gaz. vol. 139; p. 673.
- Malleable Iron Range Company. (See McClure, S., assignor.)
- Mallers, J. B., Jr. (See Lilleberg, C. L., assignor.)
- Mallery, C., Natchez, Miss. Razor. No. 933,317; Sept. 7; Sp. p. 643; Gaz. vol. 146; p. 100.
- Mallery, H., Owego, N. Y. Corrugated metallic culvert. No. 914,963; Mar. 9; Sp. p. 2711; Gaz. vol. 140; p. 456.
- Mallett, G. H., Copake, N. Y. Can-filling machine. No. 920,597; May 4; Sp. p. 1020; Gaz. vol. 142; p. 166.
- Malley, J. H., Harrisville, R. I. Picker mechanism for looms. No. 934,328; Sept. 14; Sp. p. 2748; Gaz. vol. 146; p. 456.
- Mallon, E., Schöneberg, near Berlin, Germany. Pocket-knife. No. 935,380; Sept. 28; Sp. p. 4840; Gaz. vol. 146; p. 856.
- Mallon, J., assignor of one-half to Boland Machinery & Manufacturing Co., New Orleans, La. Cane-sling. No. 922,929; May 25; Sp. p. 5854; Gaz. vol. 142; p. 1020.
- Mallonee, W. K., F. Dannenberg, and P. P. Brehm, Denver, Colo. Device for use in making draperies, &c. No. 918,348; Apr. 13; Sp. p. 2814; Gaz. vol. 141; p. 497.
- Mallory, D., Edgar, Nebr. Wrench. No. 939,728; Nov. 9; Sp. p. 2823; Gaz. vol. 148; p. 466.
- Mallory, D. F. (See Brewington, H. S., assignor.)
- Mallory, J. L., Evanston, Ill. Fastening device for windows. No. 913,833; Mar. 2; Sp. p. 317; Gaz. vol. 140; p. 55.
- Malmberg, A. G., assignor of one-half to L. Olsen, Austin, Tex. Expandible boot-tree. No. 934,556; Sept. 21; Sp. p. 3186; Gaz. vol. 146; p. 556.
- Malmberg, C. J., Thomaston, Mich. Oar-lock. No. 926,127; June 29; Sp. p. 6362; Gaz. vol. 143; p. 1129.
- Malmedie, C. H., assignor to Morse Twist Drill and Machine Company, New Bedford, Mass. Reamer. No. 909,434; Jan. 12; Sp. p. 2027; Gaz. vol. 138; p. 360.
- Malmquist, C. E., and O. H. Fredrickson, Seattle, Wash. Sign. No. 914,493; Mar. 9; Sp. p. 1764; Gaz. vol. 140; p. 302.
- Malmquist, E. H. E., assignor to H. Holton, New York, N. Y. Pyrographical device. No. 912,702; Feb. 16; Sp. p. 3482; Gaz. vol. 139; p. 621.
- Malocsay, F. X. (See Wagner and Malocsay.)
- Malocsay, F. X., Jersey City, N. J., assignor to W. H. Heulings, Jr., Philadelphia, Pa. Car-door. No. 938,427; Oct. 26; Sp. p. 5948; Gaz. vol. 147; p. 1008.
- Malocsay, F. X., Jersey City, N. J., assignor to W. H. Heulings, Philadelphia, Pa. Car-door. No. 939,919; Nov. 9; Sp. p. 3238; Gaz. vol. 148; p. 533.
- Malocsay, F. X., Jersey City, N. J., assignor to W. H. Heulings, Philadelphia, Pa. Car-door. No. 942,862; Dec. 7; Sp. p. 1728; Gaz. vol. 149; p. 280.
- Malone, T. V., Minneapolis, Minn. Platform-scale. No. 923,285; June 1; Sp. p. 399; Gaz. vol. 143; p. 57.
- Maloney, J., et al. (See Densmore and Hayton, assignors.)
- Maloney, J. E., J. Harvey, and C. Paul, Salamanca, N. Y. Train-stopping device. No. 924,482; June 8; Sp. p. 2980; Gaz. vol. 143; p. 487.
- Maloney, J. G., Scranton, Pa. Pole-attaching means for vehicles. No. 940,982; Nov. 23; Sp. p. 5598; Gaz. vol. 148; p. 948.
- Maloney, J. R., Providence, R. I. Adjustable folding seat and luggage-box. No. 915,983; Mar. 23; Sp. p. 4783; Gaz. vol. 140; p. 845.
- Maloney, M. H., Chelsea, Mass. Base for spinning-rings. No. 938,392; Oct. 26; Sp. p. 5874; Gaz. vol. 147; p. 996.
- Maloney, M. J., Missoula, Mont. Lubricating apparatus. No. 911,418; Feb. 2; Sp. p. 766; Gaz. vol. 139; p. 133.
- Maloz, D. H., et al. (See Read, W. W., assignor.)
- Maloz, W. C., et al. (See Read, W. W., assignor.)
- Malpass, G. U., Philadelphia, Pa. Nursing-bottle holder. No. 918,565; Apr. 20; Sp. p. 3269; Gaz. vol. 141; p. 596.
- Malston, V. H., Johannesburg, Transvaal. Safety-catch for mine skips and cages, hoists, and the like. No. 917,332; Apr. 6; Sp. p. 773; Gaz. vol. 141; p. 131.
- Maltbie, H. L. (See Daley, Long, and Maltbie.)
- Maltby, C. C., assignor to Twinlock Company, Cincinnati, Ohio. Leaf or sheet for loose-leaf binders. No. 920,072; Apr. 27; Sp. p. 6654; Gaz. vol. 141; p. 1132.
- Maltby, C. C., assignor to Twinlock Company, Cincinnati, Ohio. Loose-leaf binder. No. 934,452; Sept. 21; Sp. p. 2994; Gaz. vol. 146; p. 522.
- Maltby, G. B., Cleveland, Ohio. Metallic rod-packing. No. 943,835; Dec. 21; Sp. p. 3878; Gaz. vol. 149; p. 674.
- Maltby, L. C., Washington, D. C. Paper-box machine. No. 919,905; Apr. 27; Sp. p. 6312; Gaz. vol. 141; p. 1078.
- Malterer, J., Dennison, Ohio. Rail-joint. No. 934,926; Sept. 21; Sp. p. 3920; Gaz. vol. 146; p. 680.
- Malzahn, M., et al. (See Thomas, C. S., assignor.)
- Mammen, L. W., Chicago, Ill. Clothes-holder for washing-machines. No. 921,262; May 11; Sp. p. 2383; Gaz. vol. 142; p. 418.
- Manary, R. (See Carlson, J. W., assignor.)
- Manasek, E. B., Quincy, Wash. Fork attachment. No. 934,002; Sept. 14; Sp. p. 2108; Gaz. vol. 146; p. 348.
- Manbeck, C. B., Whiting, Ind., assignor to Standard Oil Company. Candle-assembling machine. No. 932,796; Aug. 31; Sp. p. 6721; Gaz. vol. 145; p. 1153.
- Manbeck, C. B., Whiting, Ind., assignor to Standard Oil Company, Chicago, Ill. Candle-gathering implement. No. 934,196; Sept. 14; Sp. p. 2506; Gaz. vol. 146; p. 412.
- Manbeck, C. B., assignor to Standard Oil Company, Whiting, Ind. Candle-end-forming machine. No. 941,083; Nov. 23; Sp. p. 5820; Gaz. vol. 148; p. 982.
- Manchester Guardian Limited. (See Hallam, E., assignor.)
- Manchester, W. L., Clinton, Iowa. Bandoau. No. 932,304; Aug. 24; Sp. p. 5667; Gaz. vol. 145; p. 966.
- Mandarelli, L., assignor to P. Berville, Paris, France. Electrical instrument for pyrogravure and surgical purposes. No. 930,203; Aug. 3; Sp. p. 1204; Gaz. vol. 145; p. 197.
- Mandel, C. I., New York, N. Y. Collar. No. 927,257; July 6; Sp. p. 1149; Gaz. vol. 144; p. 187.
- Mandel, D., Nyirbator, Austria-Hungary. Hygienic wagon and portable furnace. No. 912,585; Feb. 16; Sp. p. 3233; Gaz. vol. 139; p. 579.
- Mandel, E., Colby, Wis. Curd-agitator. No. 932,991; Aug. 31; Sp. p. 7066; Gaz. vol. 145; p. 1215.
- Mandrell, G. W., Gloversville, N. Y. Glove. No. 917,783; Apr. 13; Sp. p. 1650; Gaz. vol. 141; p. 306.
- Manent, E. I., Lynn, Mass. assignor to United Shoe Machinery Company, Paterson, N. J. Form locking and adjusting device. No. 935,212; Sept. 28; Sp. p. 4503; Gaz. vol. 146; p. 801.
- Manfull, G. A., Fort Lupton, Colo. Farm-gate. No. 926,345; June 29; Sp. p. 6825; Gaz. vol. 143; p. 1201.
- Mangan, R. L., Springfield, Mo. Nut-lock. No. 908,473; Jan. 5; Sp. p. 79; Gaz. vol. 138; p. 15.
- Mangan, R. L., Springfield, Mo. Adjustable seat-back support for reversible car-seat backs. No. 922,303; May 18; Sp. p. 4532; Gaz. vol. 142; p. 787.
- Manganese Steel Rail Company. (See Potter, W. S., assignor.)
- Manganese Steel Safe Company. (See Hibbard, H. D., assignor.)
- Mangels, W. F., New York, N. Y. Pleasure-railway. No. 925,818; June 22; Sp. p. 5728; Gaz. vol. 143; p. 993.
- Manges, U. S., Scalp Level, Pa. Carpenter's gage. No. 933,655; Sept. 7; Sp. p. 1405; Gaz. vol. 146; p. 211.
- Mangin, E. C., Colorado Springs, Colo. Nut-lock. No. 920,359; May 4; Sp. p. 547; Gaz. vol. 142; p. 87.
- Manhattan Bedding Company. (See Jensen, F., assignor.)
- Manhattan Box Company. (See Gennert, E. F., assignor.)
- Manhattan Brass Company. (See Gennert, E. F., assignor.)
- Manhattan Screw & Stamping Works. (See Jacobs, M., assignor.)
- Manierre, A. (See Tevander and Manierre.)
- Manischewitz, B., Cincinnati, Ohio. Mechanism for regulating the speed between traveling carriers. No. 930,673; Aug. 10; Sp. p. 2157; Gaz. vol. 145; p. 377.
- Manitowoc Dry Dock Company et al. (See Gunnell, E., assignor.)
- Manker, J. H., New Vienna, Ohio. Drag. No. 916,745; Mar. 30; Sp. p. 6245; Gaz. vol. 140; p. 1118.
- Manley, T. F., La Fayette, Ind. Box-lid holder. No. 913,021; Feb. 23; Sp. p. 4125; Gaz. vol. 139; p. 749.
- Manlove, G., Rushville, Ill. Brake-lever mechanism for carts and wagons. No. 944,801; Dec. 28; Sp. p. 5972; Gaz. vol. 149; p. 1029.
- Mann, C. A., assignor of one-half to R. S. Mayer, Cincinnati, Ohio. Time-switch. No. 944,802; Dec. 28; Sp. p. 5974; Gaz. vol. 149; p. 1030.

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 Mann, C. H., Haddonfield, N. J. Loose-leaf binder. No. 913,527; Feb. 23; Sp. p. 5154; Gaz. vol. 139; p. 919.  
 Mann, F. C. D. (See Hill and Mann.)  
 Mann, F. J., assignor to Frank J. Mann Tool and Appliance Company, New York, N. Y. Blow-torch and soldering-iron. No. 937,622; Oct. 19; Sp. p. 4221; Gaz. vol. 147; p. 719.  
 Mann, H. (See Shepard, A., assignor.)  
 Mann, H. W., Ballard, W. Va. Match-box. No. 930,301; Aug. 3; Sp. p. 1371; Gaz. vol. 145; p. 227.  
 Mann, J. P., Ennis, Tex. Coop. No. 944,367; Dec. 28; Sp. p. 5004; Gaz. vol. 149; p. 881.  
 Mann, L. T., Chicago, Ill. Power transmission from car-truck axles. No. 910,211; Jan. 19; Sp. p. 3602; Gaz. vol. 138; p. 654.  
 Mann, M. H., assignor to F. W. Buffum, Louisiana, Mo. Feeding and separating apparatus for printing-machines. No. 910,557; Jan. 26; Sp. p. 4362; Gaz. vol. 138; p. 800.  
 Mann, M. H., assignor to F. W. Buffum, Louisiana, Mo. Ice-pick. No. 926,346; June 29; Sp. p. 6829; Gaz. vol. 143; p. 1202.  
 Mann, W., Baljeannie, Saskatchewan, Canada. Calf-weaner. No. 927,258; July 6; Sp. p. 1150; Gaz. vol. 144; p. 187.  
 Mann, W. B., Baltimore, Md., assignor to American Air-Brake Company. High-speed brake. No. 912,392; Feb. 16; Sp. p. 2827; Gaz. vol. 139; p. 514.  
 Mann, W. B., Baltimore, Md., assignor to P. Mauro and S. T. Cameron, trustees, Washington, D. C. Triple valve for air-brakes. No. 931,492; Aug. 24; Sp. p. 4928; Gaz. vol. 145; p. 846.  
 Mann, W. B., Baltimore, Md., assignor to P. Mauro and S. T. Cameron, trustees, Washington, D. C. Triple valve for air-brakes. No. 943,983; Dec. 21; Sp. p. 4189; Gaz. vol. 149; p. 725.  
 Mannes, S. (See Pugatsky and Mannes.)  
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 Mannesmann, O., Remscheid-Bliedinghausen, Germany. Illuminating-body. No. 937,161; Oct. 19; Sp. p. 3249; Gaz. vol. 147; p. 561.  
 Manning, Bowman & Company. (See Savage and Chapman, assignors.)  
 Manning, Bowman & Company. (See Savage and Gutermann, assignors.)  
 Manning, G. C., Portland, Ore. Automatic knob-operated door-lock. No. 941,327; Nov. 23; Sp. p. 6343; Gaz. vol. 148; p. 1061.  
 Manning, J. J., and J. W. Stephenson, Toledo, assignors to National Malleable Castings Company, Cleveland, Ohio. Malleable-iron casting and making same. No. 922,791; May 25; Sp. p. 5549; Gaz. vol. 142; p. 975.  
 Manning, J. J., and J. W. Stephenson, Toledo, assignors to National Malleable Castings Company, Cleveland, Ohio. Making castings. No. 922,792; May 25; Sp. p. 5551; Gaz. vol. 142; p. 975.  
 Manning, J. J., and J. W. Stephenson, Toledo, assignors to National Malleable Castings Company, Cleveland, Ohio. Malleable-iron casting and making same. No. 922,793; May 25; Sp. p. 5551; Gaz. vol. 142; p. 975.  
 Manning, J. T., Chelsea, Mass. Folding umbrella. No. 938,007; Oct. 26; Sp. p. 5022; Gaz. vol. 147; p. 865.  
 Manning, T. C., assignor to M. C. Peters Mill Co., Omaha, Nebr. Feed-mixing machine. No. 937,623; Oct. 19; Sp. p. 4222; Gaz. vol. 147; p. 719.  
 Manning, W. H., Malden, assignor to C. A. Hews, Cambridge, Mass. Dental instrument. No. 936,732; Oct. 12; Sp. p. 2377; Gaz. vol. 147; p. 396.  
 Manning, W. J., Chicago, Ill. Amusement device. No. 911,892; Feb. 9; Sp. p. 1693; Gaz. vol. 139; p. 313.  
 Manon, J. H., St. Joseph, Mo. Refrigerator. No. 940,700; Nov. 23; Sp. p. 5005; Gaz. vol. 148; p. 854.  
 Mansbridge, G. F., Sanderstead, England. Foiled paper and producing same. No. 920,970; May 11; Sp. p. 1789; Gaz. vol. 142; p. 317.  
 Manser, G., Cincinnati, Ohio. Hat and coat hanger. No. 930,399; Aug. 10; Sp. p. 1566; Gaz. vol. 145; p. 284.  
 Mansfield, E. S., Atlanta, Ga. Paper-feed for type-writers. No. 941,889; Nov. 30; Sp. p. 7569; Gaz. vol. 148; p. 1273.  
 Mansfield, G. L., Chicago, Ill. Dust-guard for journal-boxes. No. 911,313; Feb. 2; Sp. p. 573; Gaz. vol. 139; p. 98.  
 Mansfield, G. L., Chicago, Ill. Combined guard-rail clamp and tie-plate. No. 919,741; Apr. 27; Sp. p. 5957; Gaz. vol. 141; p. 1023.  
 Mansfield, G. L., Chicago, Ill. Dust-guard for journal-boxes. No. 932,484; Aug. 31; Sp. p. 6040; Gaz. vol. 145; p. 1048.  
 Mansfield, L. F., and F. D. Smith, Minneapolis, Minn. Trolley-base. No. 935,040; Sept. 28; Sp. p. 4152; Gaz. vol. 146; p. 744.  
 Mansfield, J. R. (See Lewis and Mansfield.)  
 Manska, J. (See Lammon and Manska.)  
 Manson, R. H., assignor to Dean Electric Company, Elyria, Ohio. Telephone system. (Reissue.) No. 12,929; Mar. 23; Sp. p. 5560; Gaz. vol. 140; p. 985.  
 Manson, R. H., assignor to Dean Electric Company, Elyria, Ohio. Telephone system. No. 918,566; Apr. 20; Sp. p. 3270; Gaz. vol. 141; p. 596.  
 Manson, R. H., assignor to Dean Electric Company, Elyria, Ohio. Electrical signaling system. No. 922,436; May 18; Sp. p. 4801; Gaz. vol. 142; p. 831.  
 Manson, R. H., assignor to Dean Electric Company, Elyria, Ohio. Automatic ringing-circuit and apparatus for telephone-exchanges. No. 926,950; July 6; Sp. p. 509; Gaz. vol. 144; p. 83.  
 Manson, R. H., assignor to Dean Electric Company, Elyria, Ohio. Electrical switch. No. 926,951; July 6; Sp. p. 514; Gaz. vol. 144; p. 83.  
 Manson, R. H., assignor to Dean Electric Company, Elyria, Ohio. Harmonic signaling system and magneto hand-generator therefor. No. 927,663; July 13; Sp. p. 2009; Gaz. vol. 144; p. 349.  
 Manson, R. H., assignor to Dean Electric Company, Elyria, Ohio. Operator's key. No. 927,664; July 13; Sp. p. 2012; Gaz. vol. 144; p. 350.  
 Manson, R. H., assignor to Dean Electric Company, Elyria, Ohio. Relay. No. 927,739; July 13; Sp. p. 2152; Gaz. vol. 144; p. 373.  
 Manson, R. H., assignor to Dean Electric Company, Elyria, Ohio. Electrical signaling and switching apparatus. No. 934,977; Sept. 21; Sp. p. 4024; Gaz. vol. 146; p. 699.  
 Manson, R. H., assignor to Dean Electric Company, Elyria, Ohio. Harmonic signaling system. No. 942,091; Dec. 7; Sp. p. 119; Gaz. vol. 149; p. 19.  
 Manson, R. H., assignor to Dean Electric Company, Elyria, Ohio. Electrical signaling and switching apparatus. No. 943,883; Dec. 21; Sp. p. 3971; Gaz. vol. 149; p. 690.  
 Manson, R. H., assignor, by mesne assignments, to Dean Electric Company, Elyria, Ohio. Telephone-exchange system and apparatus. No. 937,832; Oct. 26; Sp. p. 4656; Gaz. vol. 147; p. 806.  
 Mantion, J. B. (See Mantion and Stanley.)  
 Mantion, J. H., J. B. Mantion, and A. W. Stanley, Hull, Quebec, Canada. Igniter. No. 914,964; Mar. 9; Sp. p. 2712; Gaz. vol. 140; p. 456.  
 Mantion, O., assignor to Zaremba Company, Chicago, Ill. Rotary discharge-valve. No. 941,024; Nov. 23; Sp. p. 5703; Gaz. vol. 148; p. 962.  
 Mantler, L., St. Louis, Mo. Wrapper. No. 926,270; June 29; Sp. p. 6676; Gaz. vol. 143; p. 1178.  
 Manuel, A., Fresno, Cal. Fuel-feeder. No. 924,483; June 8; Sp. p. 2981; Gaz. vol. 143; p. 488.  
 Manuel-Smith Heating Company. (See Smith and Weidenbach, assignors.)  
 Manuel-Smith Heating Company. (See Weidenbach and Peters, assignors.)  
 Manuel, T. N., assignor to Allis-Chalmers Company, Milwaukee, Wis. Lagging. No. 919,198; Apr. 20; Sp. p. 4614; Gaz. vol. 141; p. 805.  
 Manufacturers Equipment Company. (See Grebel, P. J., assignor.)  
 Manufacturers Machine Company. (See Glass, P. R., assignor.)  
 Manufacturers Machine Company. (See Heys, J. J., assignor.)  
 Manufacturers Machine Company. (See Phelan, M. D., assignor.)  
 Manufacturers Outlet Co. (See Markstein, S., assignor.)  
 Manville, F. B. (See Richards, F. H., assignor.)  
 Manwaring, W., Troy, N. Y. Jury-rudder. No. 928,612; July 20; Sp. p. 3977; Gaz. vol. 144; p. 694.  
 Manz, H. R., Elgin, Ill. Heel. No. 912,479; Feb. 16; Sp. p. 2999; Gaz. vol. 139; p. 542.  
 Manz, H. R., Elgin, Ill. Heel for boots and shoes. No. 912,586; Feb. 16; Sp. p. 3234; Gaz. vol. 139; p. 580.  
 Manzel, C. W., assignor, by mesne assignments, to J. L. Osgood, Buffalo, N. Y. Lubricator. No. 920,769; May 4; Sp. p. 1357; Gaz. vol. 142; p. 221.  
 Manzel, C. W., assignor to M. A. Manzel, Buffalo, N. Y. Drill-chuck. No. 931,327; Aug. 17; Sp. p. 3615; Gaz. vol. 145; p. 623.  
 Manzel, M. A. (See Manzel, C. W., assignor.)  
 Mapel, L. A., St. Louis, Mo. Neckband-shaper. No. 910,140; Jan. 19; Sp. p. 3436; Gaz. vol. 138; p. 629.  
 Mapes, C. M. (See Meredith-Jones, H., assignor.)  
 Mapes, C. T., Crafton, Pa. Underreamer. No. 923,677; June 1; Sp. p. 1244; Gaz. vol. 143; p. 192.  
 Maplebay Manufacturing Company. (See Torrence, C. A., assignor.)  
 Maples, C. R., Cleveland, Ohio. Packing-ring. No. 939,047; Nov. 2; Sp. p. 1283; Gaz. vol. 148; p. 206.  
 Maranville, H. F., Akron, Ohio. Oil and water separator. No. 911,314; Feb. 2; Sp. p. 576; Gaz. vol. 139; p. 98.  
 Maranville, H. F., Akron, Ohio. Ventilator. No. 938,067; Oct. 26; Sp. p. 5152; Gaz. vol. 147; p. 885.  
 Maratta, H. G., Chicago, Ill. Color-chart. No. 918,068; Apr. 13; Sp. p. 2255; Gaz. vol. 141; p. 405.  
 Marbach, F. G., Medina, Ohio. Latch and lock for doors and the like. No. 913,409; Feb. 23; Sp. p. 4905; Gaz. vol. 139; p. 880.  
 Marbach, F. G., Medina, Ohio. Engaging mechanism for doors, gates, and the like. No. 913,410; Feb. 23; Sp. p. 4906; Gaz. vol. 139; p. 880.  
 Marble, A. D. (See Fowler, L. D., assignor.)  
 Marble, E. C., Chicago, Ill. Variable-speed apparatus. No. 938,679; Nov. 2; Sp. p. 521; Gaz. vol. 148; p. 80.



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- Marble, W. B., Tacoma, Wash. Propelling and steering device for vessels. No. 940,039; Nov. 16; Sp. p. 3525; Gaz. vol. 148; p. 603.
- Marble, W. L., Gladstone, Mich. Firearm. No. 931,328; Aug. 17; Sp. p. 3617; Gaz. vol. 145; p. 624.
- Marble, W. P., Cambridge, Mass. Valve-handle. (Reissue.) No. 12,982; June 29; Sp. p. 3756; Gaz. vol. 143; p. 1326.
- Marble, W. P., Cambridge, Mass. Valve-handle. No. 944,099; Dec. 21; Sp. p. 4433; Gaz. vol. 149; p. 764.
- Marceau, E. F., East Hartford, Conn. Curtain-support. No. 943,151; Dec. 14; Sp. p. 2425; Gaz. vol. 149; p. 412.
- Marcellus, C. N., Grand Rapids, Mich. Flushing-tank. No. 918,456; Apr. 13; Sp. p. 3029; Gaz. vol. 141; p. 532.
- Marcet y Marti, J., Tarrasa, Spain. Woven wrapper for tires. No. 943,557; Dec. 14; Sp. p. 3263; Gaz. vol. 149; p. 549.
- March, A. D., Logansport, Ind. Wagon-loader. No. 925,364; June 15; Sp. p. 4764; Gaz. vol. 143; p. 814.
- Marchand, R., Pittsburg, Pa. Dough-mixer. No. 920,484; May 4; Sp. p. 783; Gaz. vol. 142; p. 127.
- Marchek, J., Pittsburg, Pa. Iron. No. 938,261; Oct. 26; Sp. p. 5568; Gaz. vol. 147; p. 952.
- Marcher, F. A., Los Angeles, Cal. Eyeglass-frame. No. 926,667; June 29; Sp. p. 7415; Gaz. vol. 143; p. 1308.
- Marchman, R. G., *et al.* (See Barnes, F. S., assignor.)
- Marcil, L. H., Newtonville, assignor to C. P. Dolan, Boston, Mass. Engine. No. 920,165; May 4; Sp. p. 139; Gaz. vol. 142; p. 22.
- Marille, M., Paris, France. Pneumatic tire. No. 926,347; June 29; Sp. p. 6830; Gaz. vol. 143; p. 1202.
- Marco, J. M., Philadelphia, Pa., assignor to Crompton & Knowles Loom Works. Loom shuttle-box motion. No. 914,739; Mar. 9; Sp. p. 2294; Gaz. vol. 140; p. 383.
- Marconi, G., London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Wirelesssignaling system. No. 924,168; June 8; Sp. p. 2338; Gaz. vol. 143; p. 384.
- Marconi, G., London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Wirelesssignaling system. No. 924,560; June 8; Sp. p. 3145; Gaz. vol. 143; p. 513.
- Marconi, G., Adelphi, London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Transmitting apparatus for wireless telegraphy. No. 935,381; Sept. 28; Sp. p. 4841; Gaz. vol. 146; p. 856.
- Marconi, G., Adelphi, London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Apparatus for wireless telegraphy. No. 935,382; Sept. 28; Sp. p. 4844; Gaz. vol. 146; p. 856.
- Marconi, G., Adelphi, London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Apparatus for wireless telegraphy. No. 935,383; Sept. 28; Sp. p. 4845; Gaz. vol. 146; p. 856.
- Marconi Wireless Telegraph Company of America. (See Marconi, G., assignor.)
- Marconnet, G., Paris, France. Gas-generator apparatus for producing combustible gases. No. 909,920; Jan. 19; Sp. p. 3007; Gaz. vol. 138; p. 557.
- Marcotte, A. R., assignor of one-half to G. A. Layton, Concordia, Kans. Extension-call for telephones. No. 929,965; Aug. 3; Sp. p. 724; Gaz. vol. 145; p. 116.
- Marcou, J. N., and J. C. St. Peter, Bay City, Mich. Automatic locating-buoy. No. 941,377; Nov. 30; Sp. p. 6463; Gaz. vol. 148; p. 1101.
- Marcue, C. J., *et al.* (See Durgin, F. H., assignor.)
- Marcus, J. N., New York, N. Y. Chimney cowl or ventilator. No. 944,043; Dec. 21; Sp. p. 4326; Gaz. vol. 149; p. 745.
- Marcus, J. J., Logansport, Ind. Faucet. No. 931,880; Aug. 24; Sp. p. 4769; Gaz. vol. 145; p. 825.
- Marcus, M. H., Braddock, Pa. Fastener for leggings. No. 927,986; July 13; Sp. p. 2671; Gaz. vol. 144; p. 455.
- Marcuse, I. J., and E. S. Clarke, Richmond, Va., assignors to American Can Company, New York, N. Y. Tobacco-box. No. 919,742; Apr. 27; Sp. p. 5960; Gaz. vol. 141; p. 1023.
- Marcuse, M. M., New York, N. Y. Liquid-dispensing device. No. 936,334; Oct. 12; Sp. p. 1508; Gaz. vol. 147; p. 261.
- Marcy, F. E., Salt Lake City, Utah, assignor to Allis-Chalmers Company, Milwaukee, Wis. Belt-tightening and speed-changing mechanism. No. 919,048; Apr. 20; Sp. p. 4338; Gaz. vol. 141; p. 757.
- Marcy, F. E., Salt Lake City, Utah, assignor to Allis-Chalmers Company, Milwaukee, Wis. Copper-converter. No. 919,199; Apr. 20; Sp. p. 4615; Gaz. vol. 141; p. 806.
- Marcy, F. E., Salt Lake City, Utah, assignor to F. Klepetko, New York, N. Y. Roasting-furnace. No. 920,971; May 11; Sp. p. 1791; Gaz. vol. 142; p. 317.
- Marek, E., Chicago, Ill. Carbonating apparatus. No. 918,567; Apr. 20; Sp. p. 3274; Gaz. vol. 141; p. 596.
- Marek, E., Chicago, Ill. Hose and pipe coupling. No. 937,833; Oct. 26; Sp. p. 4659; Gaz. vol. 147; p. 806.
- Marek, E., Chicago, Ill. Pipe-coupling. No. 939,146; Nov. 2; Sp. p. 1492; Gaz. vol. 148; p. 241.
- Marek, L. (See Scheurer and Marek.)
- Marendaz, H. F., assignor of one-half to C. H. Regan, Waterbury, Conn. Hose-protector. No. 913,903; Mar. 2; Sp. p. 503; Gaz. vol. 140; p. 81.
- Marendowski, V., Ermont, France. Pressure-button. No. 924,254; June 8; Sp. p. 2538; Gaz. vol. 143; p. 413.
- Marengo, W. E., Worcester, assignor of one-half to J. B. Proulx, Southbridge, Mass. Cushion-tire. No. 939,524; Nov. 9; Sp. p. 2370; Gaz. vol. 148; p. 395.
- Marfield, P. B., assignor to Nugent Tool Company, Cincinnati, Ohio. Friction-clutch. No. 942,452; Dec. 7; Sp. p. 875; Gaz. vol. 149; p. 143.
- Margueretaz, R., Aosta, Italy. Rigid wallet for cycles and the like. No. 931,782; Aug. 24; Sp. p. 4580; Gaz. vol. 145; p. 794.
- Marine Hardware Company. (See Warren, F. A., Jr., assignor.)
- Marino, Q., assignor of three-fourths to E. J. Richardson, London, England. Metallization of vitreous ceramic surfaces. No. 925,365; June 15; Sp. p. 4768; Gaz. vol. 143; p. 814.
- Marino, Q., and E. W. Barton-Wright, London, England. Agglutinating active material for electric accumulators. No. 911,141; Feb. 2; Sp. p. 235; Gaz. vol. 139; p. 42.
- Marion, A., Fitchburg, Mass. Lock for door knobs or handles. No. 912,587; Feb. 16; Sp. p. 3236; Gaz. vol. 139; p. 580.
- Marion Machine, Foundry & Supply Company. (See Barnhill, E. B., assignor.)
- Marion Steam Shovel Company. (See King, Harding, and Barnhart, assignors.)
- Marion, W. L., Jersey City, N. J. Window-shade roller. No. 928,060; July 13; Sp. p. 2823; Gaz. vol. 144; p. 481.
- Maris, M., Chicago, Ill. Game apparatus. No. 943,435; Dec. 14; Sp. p. 3003; Gaz. vol. 149; p. 507.
- Marius, C. J., West Hoboken, N. J. Antislipping device. No. 913,411; Feb. 23; Sp. p. 4907; Gaz. vol. 139; p. 880.
- Marius, C. J. and F. G., West Hoboken, N. J. Casting abrading, grinding, cutting, and polishing substances in a metallic matrix. No. 918,069; Apr. 13; Sp. p. 2258; Gaz. vol. 141; p. 406.
- Marius, C. J. and F. G., West Hoboken, N. J. Composition of matter. No. 934,412; Sept. 14; Sp. p. 2906; Gaz. vol. 146; p. 486.
- Marius, F. G. (See Marius, C. J. and F. G.)
- Marjenhoff, A. J. R., Charleston, S. C. Acetylene-gas generator. No. 926,952; July 6; Sp. p. 516; Gaz. vol. 144; p. 84.
- Mark, C. W., Gainesboro, Va. Celery-bleaching sleeve. No. 931,628; Aug. 17; Sp. p. 4196; Gaz. vol. 145; p. 720.
- Mark, F. W. (See Gramm and Timme, assignors.)
- Mark, R. (See Mark, W. and R.)
- Mark, W. and R., Durdar, Carlisle, England. Music-turner. No. 939,525; Nov. 9; Sp. p. 2381; Gaz. vol. 148; p. 395.
- Markarian, M., Los Angeles, Cal. Reversible car-axle coupling. No. 929,771; Aug. 3; Sp. p. 295; Gaz. vol. 145; p. 51.
- Markarian, M., Fresno, Cal. Reversible car-axle coupling. No. 934,003; Sept. 14; Sp. p. 2109; Gaz. vol. 146; p. 348.
- Markel, C. W., Homerville, Ohio. Potato-digging machine. No. 925,119; June 15; Sp. p. 4318; Gaz. vol. 143; p. 736.
- Markel, L., New York, N. Y. Method of and means for forming screw-threads. No. 936,249; Oct. 5; Sp. p. 1333; Gaz. vol. 147; p. 205.
- Markel, M. A., Newtown, Mo. Baling-press. No. 935,531; Sept. 28; Sp. p. 5146; Gaz. vol. 146; p. 904.
- Marker, W. E., *et al.* (See Uggeldahl, G. A., assignor.)
- Markewich, J. (See Brown, J. H., assignor.)
- Markey, J., Wollaston, assignor of one-half to M. Winer, Quincy, Mass. Ash-sifter. No. 931,446; Aug. 17; Sp. p. 3855; Gaz. vol. 145; p. 665.
- Markham Air Rifle Company. (See Markham and Roe, assignors.)
- Markham, C. M., Chicago, Ill. Band-tightener for concrete forms. No. 918,568; Apr. 20; Sp. p. 3278; Gaz. vol. 141; p. 597.
- Markham, C. M., Chicago, Ill. Bond for concrete-construction forms. No. 928,392; July 20; Sp. p. 3530; Gaz. vol. 144; p. 624.
- Markham, L. B. (See Heft, C. E., assignor.)
- Markham, W. F., and E. S. Roe, assignors to Markham Air Rifle Company, Plymouth, Mich. Air-gun. No. 911,056; Feb. 2; Sp. p. 65; Gaz. vol. 139; p. 13.
- Markland, H. H., McKeesport, Pa. Rail joint and fastener. No. 938,262; Oct. 26; Sp. p. 5570; Gaz. vol. 147; p. 952.
- Markman, J., Gladstone, Ill. Suction-pipe mouthpiece. No. 909,921; Jan. 19; Sp. p. 3011; Gaz. vol. 138; p. 558.
- Marko, A., Los Angeles, Cal. Broom-holder. No. 922,008; May 18; Sp. p. 3957; Gaz. vol. 142; p. 692.
- Marks, B. D., Chicago, Ill. Reciprocating propeller. No. 931,733; Aug. 24; Sp. p. 4581; Gaz. vol. 145; p. 794.
- Marks, H., *et al.* (See Bricken, J., assignor.)
- Marks, H., *et al.* (See Zwirnam, M., assignor.)
- Marks, H. E. (See Cooley and Marks.)
- Marks, H. E., Poughkeepsie, N. Y. Expanded metal. No. 934,081; Sept. 14; Sp. p. 2272; Gaz. vol. 146; p. 372.
- Marks, J., Devonport, New Zealand. Rotary engine. No. 939,729; Nov. 9; Sp. p. 2824; Gaz. vol. 148; p. 467.

*Alphabetical list of patentees—Continued.*

- Marks, P. J., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic shutter. No. 932,485; Aug. 31; Sp. p. 6043; Gaz. vol. 145; p. 1049.
- Marks, R., *et al.* (See Bricken, J., assignor.)
- Marks, R. C., assignor of one-eighth to R. H. Gunnis, one-eighth to O. J. Winston, and one-eighth to W. W. Whitson, San Diego, Cal. Sparking mechanism. No. 934,978; Sept. 21; Sp. p. 4028; Gaz. vol. 146; p. 700.
- Marks, S. A. B. (See Morris and Marks.)
- Marks, W., Pasco, Wash. Display device. No. 940,263; Nov. 16; Sp. p. 4012; Gaz. vol. 148; p. 683.
- Marks, W. D., Westport, N. Y. Driving and transmitting mechanism for wheeled vehicles. No. 918,685; Apr. 20; Sp. p. 3591; Gaz. vol. 141; p. 637.
- Markstein, S., assignor, by mesne assignments, to Manufacturers Outlet Co., New York, N. Y. Pneumatic sweeper. No. 941,347; Nov. 23; Sp. p. 6384; Gaz. vol. 148; p. 1067.
- Markstein, S., assignor, by mesne assignments, to Manufacturers Outlet Co., New York, N. Y. Pneumatic cleaner. No. 942,037; Nov. 30; Sp. p. 7845; Gaz. vol. 148; p. 1322.
- Marler, D. N., McKinley, Mo. Vehicle-axle. No. 937,316; Oct. 19; Sp. p. 3566; Gaz. vol. 147; p. 616.
- Marles, H., Manor Park, England. Gaiter or patch for repairing pneumatic tires. No. 928,678; July 20; Sp. p. 4112; Gaz. vol. 144; p. 716.
- Marley, H. P. (See Richards, Marley, Kovács, and Reves.)
- Marlin Firearms Company. (See De Jarnatt, H. W., assignor.)
- Marlin Firearms Company. (See Hepburn, L. L., assignor.)
- Marlin Firearms Company. (See Wheeler, J. H., assignor.)
- Marlin, H. B., Barberton, Ohio. Valve. No. 917,333; Apr. 6; Sp. p. 775; Gaz. vol. 141; p. 132.
- Marley, J. N. (See Sawyer, J. H., assignor.)
- Marmaud, J. L., Worcester, Mass. Puncture-indicating device for tires. No. 926,757; July 6; Sp. p. 104; Gaz. vol. 144; p. 16.
- Marmon, H. C., assignor to Nordyke & Marmon Company, Indianapolis, Ind. Controller. No. 911,419; Feb. 2; Sp. p. 769; Gaz. vol. 139; p. 133.
- Marnel, M. J. (See Anner and Marnel.)
- Marquardt, G. H., assignor of one-half to T. J. Talbert, Cassville, Mo. Gasolene-engine. No. 922,009; May 18; Sp. p. 3959; Gaz. vol. 142; p. 692.
- Marquardt, R. G., Milwaukee, Wis. Woven-wire mattress. No. 923,286; June 1; Sp. p. 400; Gaz. vol. 143; p. 57.
- Marquart, J. I. (See Arndt and Marquart.)
- Marquette, J. A., Hershey, Nebr. Grate. No. 910,078; Jan. 19; Sp. p. 3314; Gaz. vol. 138; p. 610.
- Marquette, J. J. P., *et al.* (See Brost, C. A., assignor.)
- Marquette Piano Company. (See Larson and Ostergren, assignors.)
- Marr, L. K. (See Conway and Bisbing, assignors.)
- Marr, L. V., *et al.* (See Gifford, W. E., assignor.)
- Marr, R. A., Blacksburg, Va., assignor to W. J. Moore, Washington, D. C. Device for drying the hair. No. 931,881; Aug. 24; Sp. p. 4770; Gaz. vol. 145; p. 825.
- Marr, W. G., New Britain, Conn. Spring-wheel. No. 925,005; June 15; Sp. p. 4104; Gaz. vol. 143; p. 698.
- Marrinan, T. H., assignor to Woburn Machine Company, Woburn, Mass. Work-support for leather-working machines. No. 929,772; Aug. 3; Sp. p. 296; Gaz. vol. 145; p. 61.
- Marrriott, H. F., London, England. Point and switch operating apparatus. No. 926,668; June 29; Sp. p. 7417; Gaz. vol. 143; p. 1308.
- Marrriott, J. C., New Dorp, N. Y. Boring-machine and cutter therefor. No. 915,301; Mar. 16; Sp. p. 3402; Gaz. vol. 140; p. 594.
- Marrriott, R. H., Brooklyn, N. Y. Signaling system. No. 913,528; Feb. 23; Sp. p. 6156; Gaz. vol. 139; p. 919.
- Marrotte, L., Baker City, Oreg. Swimming-shoe. No. 915,457; Mar. 16; Sp. p. 3710; Gaz. vol. 140; p. 644.
- Marshall, N., Mount Vernon, N. Y. Sash-fastener. No. 914,853; Mar. 9; Sp. p. 2523; Gaz. vol. 140; p. 421.
- Marsholik, S., Brünn, Austria-Hungary. Device for prevention of arbitrary registration in counters for mechanical looms. No. 943,948; Dec. 21; Sp. p. 4118; Gaz. vol. 149; p. 714.
- Marschner, A., Omaha, Nebr. Trousers-supporter. No. 937,453; Oct. 19; Sp. p. 3891; Gaz. vol. 147; p. 662.
- Marsden, J., and E. Pearson, South Bank, England. Means for running off slag from blast-furnaces. No. 922,304; May 18; Sp. p. 4533; Gaz. vol. 144; p. 787.
- Marseilles, W. M., Clinton, Mo. Osteopathic table. No. 912,588; Feb. 16; Sp. p. 3238; Gaz. vol. 139; p. 580.
- Marsh, A., Fleming, Mo. Auxiliary locking mechanism for safes. No. 915,617; Mar. 16; Sp. p. 4039; Gaz. vol. 140; p. 698.
- Marsh, A. F. (See Woodyorth, C. E., assignor.)
- Marsh, C. E., assignor to J. A. Metzler, Newark, N. J. Support for gage-rolls. No. 936,647; Oct. 12; Sp. p. 2215; Gaz. vol. 147; p. 367.
- Marsh, C. E., Winchester, Mass. Decorated coin-holder. No. 911,509; Feb. 2; Sp. p. 920; Gaz. vol. 139; p. 161.
- Marsh, D. W., de Ridder, La. Stake or spike for logging-cars. No. 919,447; Apr. 27; Sp. p. 5342; Gaz. vol. 141; p. 923.
- Marsh, E. T., Rochester, N. Y. Convertible chair. No. 926,992; July 6; Sp. p. 684; Gaz. vol. 144; p. 296.
- Marsh, E. T., Rochester, N. Y. Auxiliary heating device for furnaces. No. 937,624; Oct. 19; Sp. p. 4225; Gaz. vol. 147; p. 720.
- Marsh, G. A., Washington, D. C. Sign. No. 913,022; Feb. 23; Sp. p. 4126; Gaz. vol. 139; p. 749.
- Marsh, G. A., Marshville, N. C., and H. H. Thompson, Washington, D. C. Fireless cooker. No. 930,204; Aug. 3; Sp. p. 1205; Gaz. vol. 145; p. 197.
- Marsh, G. C., assignor of one-half to H. W. Hart, Denver, Colo. Electric-alarm water-gage. No. 912,970; Feb. 16; Sp. p. 4020; Gaz. vol. 139; p. 705.
- Marsh, G. H., Rahway, N. J. Simultaneously embossing and printing. No. 936,335; Oct. 12; Sp. p. 1511; Gaz. vol. 147; p. 261.
- Marsh, H. C., Muncie, Ind. Flue-former. No. 934,823; Sept. 21; Sp. p. 3721; Gaz. vol. 146; p. 646.
- Marsh, H. F., Gouverneur, N. Y. Shoemaker's repair-jack. No. 933,192; Sept. 7; Sp. p. 346; Gaz. vol. 146; p. 55.
- Marsh, H. M., Chicago, Ill. Broom-making machine. No. 944,803; Dec. 28; Sp. p. 5976; Gaz. vol. 149; p. 1030.
- Marsh, J. G., Manchester, N. H. Finger-pad. No. 942,003; Nov. 30; Sp. p. 7787; Gaz. vol. 148; p. 1311.
- Marsh, J. F., Chicago, Ill. Automatic air-valve. No. 941,791; Nov. 30; Sp. p. 7349; Gaz. vol. 148; p. 1239.
- Marsh, J. W., Canon City, Colo. Flooring-jack. No. 922,930; May 25; Sp. p. 5856; Gaz. vol. 142; p. 1021.
- Marsh, L. E., assignor to Louis E. Marsh Company, San Francisco, Cal. Loose-leaf book. No. 941,084; Nov. 23; Sp. p. 5822; Gaz. vol. 148; p. 982.
- Marsh, N. E., Des Moines, Iowa. Sheet-metal piling. No. 923,364; June 1; Sp. p. 587; Gaz. vol. 143; p. 84.
- Marsh, N. E., Des Moines, Iowa. Sheet-metal piling. No. 930,487; Aug. 10; Sp. p. 1734; Gaz. vol. 145; p. 313.
- Marsh, P. J., *et al.* (See Frear, O. E., assignor.)
- Marsh, R. G., Detroit, Mich. Dispensing apparatus. No. 942,273; Dec. 7; Sp. p. 520; Gaz. vol. 149; p. 82.
- Marsh, R. H., Irwin, Pa. Rail-joint. No. 927,987; July 13; Sp. p. 2672; Gaz. vol. 144; p. 455.
- Marsh, W. A. (See Terrell, E., assignor.)
- Marsh, W. C., Dunkirk, N. Y. Valve. No. 941,934; Nov. 30; Sp. p. 7658; Gaz. vol. 148; p. 1289.
- Marsh, W. P. (See Dill and Marsh.)
- Marsh, W. W. (See Hackett, C. H., assignor.)
- Marsh, W. W. (See Hackett and Morgan, assignors.)
- Marsh, W. W. (See Hildebrandt, E., assignor.)
- Marsh, W. W. (See Morgan, T. W., assignor.)
- Marshall, A. R. (See Bromley and Marshall.)
- Marshall, A. T., assignor to Automatic Refrigerating Company, Hartford, Conn. Rocking solenoid-switch. No. 936,648; Oct. 12; Sp. p. 2217; Gaz. vol. 147; p. 367.
- Marshall, B. H., and C. E. Fox, Chicago, Ill. Construction of buildings. No. 928,314; July 20; Sp. p. 3396; Gaz. vol. 144; p. 597.
- Marshall, C. V., *et al.* (See Cook, R., assignor.)
- Marshall, D. A., assignor to C. F. and C. G. Pence, Spokane, Wash. Mold for concrete walls. No. 942,004; Nov. 30; Sp. p. 7788; Gaz. vol. 148; p. 1311.
- Marshall, E. B. (See Wilbur and Marshall.)
- Marshall, E. D., Cedar Rapids, Iowa. Hair-tonic. No. 915,781; Mar. 23; Sp. p. 4403; Gaz. vol. 140; p. 781.
- Marshall, E. J. (See Norris and Marshall.)
- Marshall, E. W., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Hydraulic valve. No. 910,079; Jan. 19; Sp. p. 3315; Gaz. vol. 138; p. 610.
- Marshall, E. W., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Hydraulic valve. No. 940,543; Nov. 16; Sp. p. 4864; Gaz. vol. 148; p. 810.
- Marshall, E. M., Los Angeles, Cal. Wall-plug. No. 927,367; July 6; Sp. p. 1326; Gaz. vol. 144; p. 221.
- Marshall, G., Fremont, Nebr. Machine for making shocks. No. 937,454; Oct. 19; Sp. p. 3892; Gaz. vol. 147; p. 662.
- Marshall, G., Nampa, assignor of one-tenth to E. M. Goodrich, Boise, Idaho. Horseshoe. No. 923,060; May 25; Sp. p. 6115; Gaz. vol. 142; p. 1062.
- Marshall, G. H., St. Johns, Mich. Polishing instrument. No. 932,039; Aug. 24; Sp. p. 5142; Gaz. vol. 145; p. 878.



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- Marshall, H. (See Uebbing and Marshall.)
- Marshall, H., Gamaliel, Ky. Cattle-guard for railway-tracks. No. 927,569; July 13; Sp. p. 1769; Gaz. vol. 144; p. 316.
- Marshall, H., Vance, Colo. Automatic synchronizer. No. 932,877; Aug. 31; Sp. p. 6859; Gaz. vol. 145; p. 1178.
- Marshall, H., Kingfisher, Okla. Soldering-iron. No. 933,318; Sept. 7; Sp. p. 644; Gaz. vol. 146; p. 100.
- Marshall, I. W., Yorklyn, Del. Soaking sheet fiber. No. 930,205; Aug. 3; Sp. p. 1206; Gaz. vol. 145; p. 197.
- Marshall, I. W., assignor of one-half to T. E. Marshall, Yorklyn, Del. Sheet-washing apparatus. No. 924,683; June 15; Sp. p. 3418; Gaz. vol. 143; p. 588.
- Marshall, J., Covington, assignor of one-half to W. R. Miller, Ripley, Tenn. Hand-car. No. 940,175; Nov. 16; Sp. p. 3834; Gaz. vol. 148; p. 651.
- Marshall, J. B., Medina, Ohio. Crib structure. No. 926,707; June 29; Sp. p. 7493; Gaz. vol. 143; p. 1321.
- Marshall, J. I., Chicago, and J. Faulds, Oak Park, Ill.; said Faulds assignor to said Marshall. Bake-oven. No. 944,804; Dec. 28; Sp. p. 5987; Gaz. vol. 149; p. 1031.
- Marshall, J. P., assignor of one-half to F. H. Ludington, St. Louis, Mo. Drying-machine. No. 943,691; Dec. 21; Sp. p. 3581; Gaz. vol. 149; p. 624.
- Marshall, J. T. (See Evans and Marshall.)
- Marshall, N. (See Sanford and Marshall.)
- Marshall, N., Newton, Mass. Assembling apparatus. No. 922,437; May 18; Sp. p. 4808; Gaz. vol. 142; p. 832.
- Marshall, P., Blackpool, C. C. Metcalfe, Sale, and W. Knowles, Bolton, England. Railway and vehicular device for purposes of amusement. No. 910,702; Jan. 26; Sp. p. 4647; Gaz. vol. 138; p. 845.
- Marshall, R. J., *et al.* (See Frederick, L., assignor.)
- Marshall, R. J., Newcastle-upon-Tyne, and W. H. Penman, Gateshead-upon-Tyne, England. Railway signaling means. No. 917,632; Apr. 6; Sp. p. 1304; Gaz. vol. 141; p. 230.
- Marshall, R. L., Elizabethtown, Ky. Watch mechanism. No. 921,859; May 18; Sp. p. 3653; Gaz. vol. 142; p. 643.
- Marshall, T. E. (See Marshall, I. W., assignor.)
- Marshall, W. P., Pittsburg, Pa. Muzzle for dogs and other animals. No. 912,703; Feb. 16; Sp. p. 3483; Gaz. vol. 139; p. 621.
- Marshallman, N. R., New York, N. Y. Sweat-band for hats. No. 938,008; Oct. 26; Sp. p. 5025; Gaz. vol. 147; p. 865.
- Marsolais, J. F., Worcester, Mass. Currycomb. No. 921,136; May 11; Sp. p. 2122; Gaz. vol. 142; p. 374.
- Marsolais, J. F., Worcester, Mass. Machine for making wire coils. No. 921,425; May 11; Sp. p. 2740; Gaz. vol. 142; p. 471.
- Marsom, A. C., Grosse Pointe Farms, Mich. Feeding and watering device. No. 937,947; Oct. 26; Sp. p. 4893; Gaz. vol. 147; p. 845.
- Marstaller, B., Munich, Germany. Border-piece for traveling-trunks. No. 909,630; Jan. 12; Sp. p. 2419; Gaz. vol. 138; p. 428.
- Marston, A. B., New Orleans, La. Bucket. No. 918,686; Apr. 20; Sp. p. 3596; Gaz. vol. 141; p. 637.
- Marston, A. M., *et al.* (See Holly, S. T., assignor.)
- Marston, B. W., Shreveport, La. Insecticide. No. 920,598; May 4; Sp. p. 1022; Gaz. vol. 142; p. 166.
- Marston, C. H., Reading, and H. H. Cummings, Newton, Mass.; said Cummings assignor to said Marston. Apparatus for marking checks. No. 913,299; Feb. 23; Sp. p. 4686; Gaz. vol. 139; p. 841.
- Marston, D. J. (See Wells, G. W., assignor.)
- Marston, E. L., Somerville, assignor to C. J. Brown, Newton, Mass. Extension-table. No. 935,608; Sept. 28; Sp. p. 5311; Gaz. vol. 146; p. 932.
- Marston, E. L., Somerville, assignor to C. J. Brown, Newton, Mass. Extension-table. No. 935,609; Sept. 28; Sp. p. 5313; Gaz. vol. 146; p. 932.
- Marston, L. M., *et al.* (See Holly, S. T., assignor.)
- Martell, F., Crookston, assignor of one-half to B. Clements, Polk county, Minn. Protective shield for horse-collars. No. 919,906; Apr. 27; Sp. p. 6315; Gaz. vol. 141; p. 1079.
- Martelli, B., New York, N. Y. Safety gas-burner. No. 922,010; May 18; Sp. p. 3962; Gaz. vol. 142; p. 693.
- Martens, F., Berlin-Charlottenburg, Germany. Device for preventing rails from longitudinal slipping. No. 917,334; Apr. 6; Sp. p. 777; Gaz. vol. 141; p. 132.
- Martens, H., and W. Schulz, Oldenburg, Germany. Flying scaffold. No. 943,436; Dec. 14; Sp. p. 3005; Gaz. vol. 149; p. 507.
- Martens, J. A., Corona, S. D. Hat-pin. No. 929,149; July 27; Sp. p. 5071; Gaz. vol. 144; p. 901.
- Martens, J. A., Ostende, Belgium. Apparatus for teaching shooting. No. 944,368; Dec. 28; Sp. p. 5005; Gaz. vol. 149; p. 881.
- Marthinson, C., Washington, D. C. Milk-bottle and other receptacle. No. 935,799; Oct. 5; Sp. p. 410; Gaz. vol. 147; p. 61.
- Marthinson, C., Washington, D. C. Packing or storage vessel. No. 935,918; Oct. 5; Sp. p. 684; Gaz. vol. 147; p. 100.
- Marthinson, C., Washington, D. C. Machine for making paper receptacles. No. 941,085; Nov. 23; Sp. p. 5824; Gaz. vol. 148; p. 983.
- Marti, J., Milan, Italy. Sheathing for tires. No. 918,350; Apr. 13; Sp. p. 2817; Gaz. vol. 141; p. 498.
- Martin, A. (See Weaver and Martin.)
- Martin, A., Oquawka, Ill. Railway device. No. 936,004; Oct. 5; Sp. p. 855; Gaz. vol. 147; p. 129.
- Martin, A. J. (See Martin, T. P. and A. J.)
- Martin, A. V., *et al.* (See Duffy, T. I., assignor.)
- Martin, B. M., Greenwich, Conn., assignor to G. A. J. Mager, New York, N. Y. Dispensing apparatus. No. 932,153; Aug. 24; Sp. p. 5372; Gaz. vol. 145; p. 916.
- Martin, C., and M. Beasley, Dickson, Tenn. Automatic retaining-valve. No. 918,179; Apr. 13; Sp. p. 2463; Gaz. vol. 141; p. 441.
- Martin, C. A., Racine, Wis. Spark-plug. No. 941,157; Nov. 23; Sp. p. 5986; Gaz. vol. 148; p. 1007.
- Martin, C. E., administrator. (See Martin, J. A.)
- Martin, C. E., Greenfield, Mass., assignor to Stanley Rule & Level Company, New Britain, Conn. Core-box plane. No. 916,344; Mar. 23; Sp. p. 6435; Gaz. vol. 140; p. 965.
- Martin, C. F., Little Rock, Ark. Air-cooler. No. 919,611; Apr. 27; Sp. p. 5702; Gaz. vol. 141; p. 981.
- Martin, C. F., Robinson, Ill. Rail-joint. No. 932,305; Aug. 24; Sp. p. 5668; Gaz. vol. 145; p. 967.
- Martin, C. H., and W. N. Ross, Jacksonville, Tex. Combined bird and insect catcher. No. 919,907; Apr. 27; Sp. p. 6315; Gaz. vol. 141; p. 1079.
- Martin, C. M., Forest City, N. C. Window-shade. No. 924,255; June 8; Sp. p. 2540; Gaz. vol. 143; p. 413.
- Martin, E., Index, Wash. Snatch-block. No. 942,274; Dec. 7; Sp. p. 524; Gaz. vol. 149; p. 82.
- Martin, E. D., assignor of one-half to F. P. Smith, Chicago, Ill. Building construction. No. 931,943; Aug. 24; Sp. p. 4932; Gaz. vol. 145; p. 846.
- Martin, E. D., assignor of one-half to F. P. Smith, Chicago, Ill. Building construction. No. 938,393; Oct. 26; Sp. p. 5876; Gaz. vol. 147; p. 997.
- Martin, F., and M. V. Haskins, Worcester, Mass. Riddle or sieve. No. 940,338; Nov. 16; Sp. p. 4203; Gaz. vol. 148; p. 708.
- Martin, F. C., and J. W. Smith, New York, N. Y. Protecting-safe. No. 943,437; Dec. 14; Sp. p. 3006; Gaz. vol. 149; p. 507.
- Martin, F. E., Ladysmith, Wis. Shelving. No. 930,302; Aug. 3; Sp. p. 1372; Gaz. vol. 145; p. 228.
- Martin, F. H., assignor to Textile Machinery Company, Boston, Mass. Flier. No. 913,646; Feb. 23; Sp. p. 5447; Gaz. vol. 139; p. 959.
- Martin, F. W. (See Martin, T. H. and F. W.)
- Martin, G. B., Marietta, Ohio. Nut-lock. No. 939,048; Nov. 2; Sp. p. 1284; Gaz. vol. 148; p. 207.
- Martin, G. C., Los Angeles, Cal. Permutation-lock. No. 915,199; Mar. 16; Sp. p. 3214; Gaz. vol. 140; p. 561.
- Martin, G. E., and A. F. Swanson, Champaign, Ill. System for air-cooling gas-engine cylinders. No. 919,612; Apr. 27; Sp. p. 5705; Gaz. vol. 141; p. 981.
- Martin, G. J., assignor of one-half to D. J. Brady, Edgewater, N. J. Leather-sewing machine. No. 921,426; May 11; Sp. p. 2741; Gaz. vol. 142; p. 472.
- Martin, G. L., Canton, Mo. Washing-machine. No. 911,737; Feb. 9; Sp. p. 1416; Gaz. vol. 139; p. 263.
- Martin, G. L., Canton, Mo. Ironing-machine. No. 914,965; Mar. 9; Sp. p. 2714; Gaz. vol. 140; p. 457.
- Martin, G. L., Brooklyn, and A. W. Schreiner, Evergreen, Long Island, N. Y., assignors to said G. L. Martin. Flaming arc-lamp. No. 942,730; Dec. 7; Sp. p. 1445; Gaz. vol. 149; p. 236.
- Martin, G. W., Thompsonville, Mich. Device for straightening rails and rail-joints. No. 916,747; Mar. 30; Sp. p. 6249; Gaz. vol. 140; p. 1118.
- Martin, H., North Bay, Ontario, Canada. Rail-joint. No. 937,162; Oct. 19; Sp. p. 3250; Gaz. vol. 147; p. 567.
- Martin, H. S., *et al.* (See Smith, J. P., assignor.)
- Martin, H. S., Liverpool, England. Electrical resistance device. No. 919,908; Apr. 27; Sp. p. 6316; Gaz. vol. 141; p. 1079.
- Martin, J. A., deceased, Toledo, Ohio; C. E. Martin, administrator. Lubricator. No. 940,339; Nov. 16; Sp. p. 4205; Gaz. vol. 148; p. 708.
- Martin, J. B., St. Polycarpe, Quebec, Canada. Snow-plow. No. 932,154; Aug. 24; Sp. p. 5375; Gaz. vol. 145; p. 917.
- Martin, J. C., Findlay, Ohio. Pump-rod-pulling device. No. 935,764; Oct. 5; Sp. p. 312; Gaz. vol. 147; p. 46.
- Martin, J. D. (See Cassie and Martin.)
- Martin, J. D., Reynolds Station, Ky.) Ditcher and road-grader. No. 910,836; Jan. 26; Sp. p. 4922; Gaz. vol. 138; p. 888.
- Martin, J. D., assignor of one-half to S. M. Robertson, Oskaloosa, Iowa. Hydrant. No. 934,082; Sept. 14; Sp. p. 2273; Gaz. vol. 146; p. 373.
- Martin, J. D., assignor to Straitsville Impervious Brick Co., New Straitsville, Ohio. Machine for speckling bricks. No. 937,706; Oct. 19; Sp. p. 4391; Gaz. vol. 147; p. 745.
- Martin, J. E., Somerville, Mass., assignor, by mesne assignments, to Union Hardware Company, Torrington, Conn. Skate. No. 928,528; July 20; Sp. p. 3803; Gaz. vol. 144; p. 666.

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- Martin, J. H., Roanoke, Va. Optometer. No. 941,581; Nov. 30; Sp. p. 6897; Gaz. vol. 148; p. 1167.
- Martin, J. J., Los Angeles, Cal. Railway. No. 910,559; Jan. 26; Sp. p. 4368; Gaz. vol. 138; p. 801.
- Martin, J. R. (See Stone, F., assignor.)
- Martin, J. R., Clarksville, Tenn. Boiler-check-valve clean-out. No. 913,023; Feb. 23; Sp. p. 4128; Gaz. vol. 139; p. 749.
- Martin, J. R., Columbia, Tenn. Insecticide. No. 937,081; Oct. 19; Sp. p. 3072; Gaz. vol. 147; p. 540.
- Martin, J. S. (See Collier and Martin.)
- Martin, J. V., Seattle, Wash. Vending-machine. No. 916,345; Mar. 23; Sp. p. 5436; Gaz. vol. 140; p. 965.
- Martin, J. W. (See De Moss, J. T., assignor.)
- Martin, K., and G. Stiege, assignors to Emil Busch, Actiengesellschaft, Optische Industrie, Rathenow, Germany. Binocular. No. 937,834; Oct. 26; Sp. p. 4660; Gaz. vol. 147; p. 807.
- Martin, L. F., St. Paul, Minn. Beer-skimmer. No. 936,005; Oct. 5; Sp. p. 857; Gaz. vol. 147; p. 129.
- Martin, M. (See Dahl and Martin.)
- Martin, M., Malden, assignor to Boston Auto Gage Company, Boston, Mass. Fluid-gage. No. 912,393; Feb. 16; Sp. p. 2830; Gaz. vol. 139; p. 514.
- Martin, M. D. L., Houston, Tex. Bedstead lock or joint. No. 931,447; Aug. 17; Sp. p. 3857; Gaz. vol. 145; p. 665.
- Martin, M. E., *et al.* (See Dunfee, J. W., assignor.)
- Martin Metal Manufacturing Co. (See Martin, T. H. and F. W., assignors.)
- Martin, F. J., Syracuse, N. Y., assignor to W. F. Martin, West Hoboken, N. J. Apparatus for weaving tubular wire fabrics. No. 922,438; May 18; Sp. p. 4811; Gaz. vol. 142; p. 832.
- Martin, P. S., Broadway, Va. Incubator-alarm. No. 926,669; June 29; Sp. p. 7420; Gaz. vol. 143; p. 1308.
- Martin, R. B. (See Heath and Martin.)
- Martin, R. C., Chapman, Nebr. Vehicle-axle. No. 911,142; Feb. 2; Sp. p. 236; Gaz. vol. 139; p. 42.
- Martin, R. D. (See Leonard, M. J., assignor.)
- Martin, R. E., Oshkosh, Wis. Type-writing machine. No. 917,959; Apr. 13; Sp. p. 2009; Gaz. vol. 141; p. 365.
- Martin, R. E., Newark, N. J. Adjustable and detachable handle for saws. No. 938,680; Nov. 2; Sp. p. 522; Gaz. vol. 148; p. 80.
- Martin, R. E., Newark, N. J. Saw-blade. No. 942,920; Dec. 14; Sp. p. 1901; Gaz. vol. 149; p. 332.
- Martin, R. H., Mount Clemens, Mich. Drain-wheel. No. 924,684; June 15; Sp. p. 3421; Gaz. vol. 143; p. 588.
- Martin, R. F., East Orange, N. J. Metallic clip for fastening flexible handles to bags. No. 917,335; Apr. 6; Sp. p. 777; Gaz. vol. 141; p. 132.
- Martin, R. T. J., Lorain, Ohio. Pressed-metal wheel. No. 912,010; Feb. 9; Sp. p. 2027; Gaz. vol. 139; p. 353.
- Martin, S. B., Dalton, Ohio. Door. No. 933,089; Sept. 7; Sp. p. 106; Gaz. vol. 146; p. 18.
- Martin, S. G., Chicago, Ill., W. O. Bartholomew, St. Louis, and E. Schaaf, St. Marys, Mo. Aging and curing tobacco. No. 942,838; Dec. 7; Sp. p. 1662; Gaz. vol. 149; p. 272.
- Martin, S. J., Saltillo, Mexico. Knotter for cop-winding machines. No. 916,883; Mar. 30; Sp. p. 6499; Gaz. vol. 140; p. 1161.
- Martin, S. J., Oklahoma, Okla. Cotton-chopper. No. 939,429; Nov. 9; Sp. p. 2192; Gaz. vol. 145; p. 364.
- Martin, S. P., De Graft, Minn. Sweep-rake. No. 927,740; July 13; Sp. p. 2155; Gaz. vol. 144; p. 373.
- Martin, T., Birmingham, Ala. Attachment for printing-presses. No. 932,797; Aug. 31; Sp. p. 6724; Gaz. vol. 145; p. 1153.
- Martin, T., Newark, N. J. Chimney-cap. No. 935,213; Sept. 28; Sp. p. 4505; Gaz. vol. 146; p. 801.
- Martin, T., St. Etienne, France. Automatic firearm. No. 935,672; Oct. 5; Sp. p. 104; Gaz. vol. 147; p. 18.
- Martin, T. A., and S. Brams, Cheboygan, Mich.; said Brams assignor to said Martin. Combination and bath fitting. No. 936,791; Oct. 12; Sp. p. 2488; Gaz. vol. 147; p. 415.
- Martin, T. H., and F. W., assignors to Martin Metal Manufacturing Co., Wichita, Kans. Ridge-roll. No. 934,329; Sept. 14; Sp. p. 2750; Gaz. vol. 146; p. 456.
- Martin, T. J., Cleveland, Ohio. Prepay gas-meter attachment. No. 918,877; Apr. 20; Sp. p. 3992; Gaz. vol. 141; p. 701.
- Martin, T. P., and A. J., Sale City, Ga. Plow-scrape brace. No. 915,302; Mar. 16; Sp. p. 3404; Gaz. vol. 140; p. 594.
- Martin, W., Gloversville, N. Y. Overcoat. No. 918,878; Apr. 20; Sp. p. 3995; Gaz. vol. 141; p. 702.
- Martin, W., Watertown, N. Y. Ship-cleaning device. No. 936,466; Oct. 12; Sp. p. 1831; Gaz. vol. 147; p. 304.
- Martin, W. A., assignor of one-half to E. H. Ehrlich, Jackson, Mich. Fence-tie. No. 918,569; Apr. 20; Sp. p. 3280; Gaz. vol. 141; p. 597.
- Martin, W. F. (See Killerbrue, E. G., assignor.)
- Martin, W. F. (See Martin, P. J., assignor.)
- Martin, W. H., *et al.* (See Atkinson, W. W., assignor.)
- Martin, W. H., Canton, Ohio. Flying-machine. No. 935,384; Sept. 28; Sp. p. 4846; Gaz. vol. 146; p. 857.
- Martin, W. H., assignor of one-fourth to E. Cook, Geyserville, Cal. Revolving suspension wagon-rack. No. 939,147; Nov. 2; Sp. p. 1493; Gaz. vol. 148; p. 242.
- Martin, W. J., assignor of one-half to F. J. Carr, Buffalo, N. Y. Air-controlled lock for sliding doors. No. 913,834; Mar. 2; Sp. p. 319; Gaz. vol. 140; p. 55.
- Martin, W. L., Chicago, Ill. Resilient wheel. No. 927,154; July 6; Sp. p. 941; Gaz. vol. 144; p. 153.
- Martin, W. L., Chicago, Ill. Traction-wheel. No. 932,798; Aug. 31; Sp. p. 6726; Gaz. vol. 145; p. 1153.
- Martin, W. M., Dundee, Scotland. Machine for the harvesting of potatoes and the like. No. 931,882; Aug. 24; Sp. p. 4772; Gaz. vol. 145; p. 825.
- Martin, W. M., and A. P. Petri, St. Louis, Mo. Chronometric camera-shutter operating device. No. 916,346; Mar. 23; Sp. p. 5439; Gaz. vol. 140; p. 966.
- Martin, W. M., and A. P. Petri, St. Louis, Mo. Music-leaf turner. No. 918,687; Apr. 20; Sp. p. 3597; Gaz. vol. 141; p. 638.
- Martin, W. P. (See Lee and Martin.)
- Martindale, J. H., Cleveland, Ohio. Combined air and gas mixer and controller. No. 918,879; Apr. 20; Sp. p. 3996; Gaz. vol. 141; p. 702.
- Martindale, W., Manilla, Iowa. Sheaf-carrier. No. 918,457; Apr. 13; Sp. p. 3031; Gaz. vol. 141; p. 532.
- Martineau, H., Holyoke, Mass. Safety device for elevators. No. 922,607; May 25; Sp. p. 5172; Gaz. vol. 142; p. 915.
- Martineau, W. C., Albany, N. Y. Card-record card. No. 930,488; Aug. 10; Sp. p. 1736; Gaz. vol. 145; p. 313.
- Martinez, M. F., Jerez de la Frontera, Spain. Purifying potassium bitartrate. No. 919,049; Apr. 20; Sp. p. 4340; Gaz. vol. 141; p. 758.
- Marting, G. H. (See Lewis, L. C., assignor.)
- Marting, G. H., Columbus, Ohio. Funnel attachment for milk-cans. No. 929,098; July 27; Sp. p. 4951; Gaz. vol. 144; p. 882.
- Marting, G. H., Columbus, Ohio. Milk-can. No. 929,150; July 27; Sp. p. 5072; Gaz. vol. 144; p. 901.
- Martini, A., Berlin, Germany. Holder for incandescent gas-mantles. No. 927,665; July 13; Sp. p. 2015; Gaz. vol. 144; p. 350.
- Martini-Buchbinderel- & Textilmaschinenfabrik, A. G. (See Kugler, F., assignor.)
- Martino, J. de, assignor to L. H. Mayer, Chicago, Ill. Amusement device. No. 910,403; Jan. 19; Sp. p. 4026; Gaz. vol. 138; p. 723.
- Martourey, P., St. Etienne, France. Shuttle mechanism for looms. No. 913,667; Feb. 23; Sp. p. 5484; Gaz. vol. 139; p. 966.
- Martter, J. F., Columbus, Ohio. Sugar-holder. No. 932,623; Aug. 31; Sp. p. 6351; Gaz. vol. 145; p. 1096.
- Marty, M. M., McGregor, Iowa. Wire-stretcher. No. 940,884; Nov. 23; Sp. p. 5402; Gaz. vol. 148; p. 915.
- Martyn, J., assignor to Holt Manufacturing Co., Stockton, Cal. Sack-chute attachment for harvesters. No. 916,884; Mar. 30; Sp. p. 6502; Gaz. vol. 140; p. 1162.
- Martyn, J., assignor to Holt Manufacturing Company, Stockton, Cal. Screen-leveling device for threshers. No. 915,688; Mar. 16; Sp. p. 4207; Gaz. vol. 140; p. 725.
- Martye, H. H., Manchester, England. Railway or track for purposes of amusement. No. 914,058; Mar. 2; Sp. p. 870; Gaz. vol. 140; p. 135.
- Martz, R. N., Frederick, Md. Vehicle. No. 911,143; Feb. 2; Sp. p. 238; Gaz. vol. 139; p. 42.
- Martz, S. E. (See Hons and Martz.)
- Marvel Rubber Company. (See Clark, M. C., assignor.)
- Marvil, J. D., Laurel, Del. Wheel-tire. No. 925,930; June 22; Sp. p. 5963; Gaz. vol. 143; p. 1029.
- Marvin, A., assignor to Marvin Manfg. Company, El Paso, Ill. Truck. No. 920,770; May 4; Sp. p. 1363; Gaz. vol. 142; p. 221.
- Marvin, J. H., Mount Vernon, N. Y. Hoisting attachment and cornice-protector. No. 914,854; Mar. 9; Sp. p. 2524; Gaz. vol. 140; p. 422.
- Marvin Manfg. Company. (See Marvin, A., assignor.)
- Marx, C., New York, N. Y. Billiard-cue tip and fastener. No. 943,360; Dec. 14; Sp. p. 2860; Gaz. vol. 149; p. 481.
- Marx, G. C., Elizabeth, N. J., assignor to Diehl Manufacturing Company. Electrical driving mechanism. No. 909,631; Jan. 12; Sp. p. 2420; Gaz. vol. 138; p. 428.
- Marx, H. J., Holyoke, Mass. Measuring and indicating device. No. 922,931; May 25; Sp. p. 5856; Gaz. vol. 142; p. 1021.
- Marx, M., and J. L. Rude, Denver, Colo. Powder holder and shaker. No. 944,341; Dec. 28; Sp. p. 4942; Gaz. vol. 149; p. 871.
- Marx & Rawolle. (See Wood, F. J., assignor.)
- Mary, F. L., Chehalis, Wash. Folding crate. No. 941,202; Nov. 23; Sp. p. 6094; Gaz. vol. 148; p. 1022.
- Maryland Railway Supply Company. (See Banks, A. O. and G. E., assignors.)
- Martzluff, F. (See Koper, W. F., assignor.)
- Mascart, C., Paris, France. Connection with taximeters or fare-indicators for vehicles. No. 912,704; Feb. 16; Sp. p. 3484; Gaz. vol. 139; p. 621.
- Maschinenfabrik Oerlikon. (See Karrer, J., assignor.)
- Maschinenfabrik Rütli vormals Caspar Honegger. (See Trachsler, E., assignor.)
- Maschino, G., Boston, Mass. Concrete chimney construction. No. 933,774; Sept. 14; Sp. p. 1657; Gaz. vol. 146; p. 274.



*Alphabetical list of patentees—Continued.*

- Masceord, G. W., London, England. Application and distribution of electric motive power, particularly for use in starting machinery and for similar purposes. No. 920,073; Apr. 27; Sp. p. 6655; Gaz. vol. 141; p. 1133.
- Masden, D. S., Milwaukee, Wis. Shade and curtain hanger. No. 937,376; Oct. 19; Sp. p. 3702; Gaz. vol. 147; p. 636.
- Mashek, J. A., Chicago, Ill. Printer's form-truck. No. 912,589; Feb. 16; Sp. p. 3239; Gaz. vol. 139; p. 581.
- Mashinter, W. F., *et al.* (See Garretson, E., assignor.)
- Masker, J., Hammond, Ind. Car-roof. No. 913,412; Feb. 23; Sp. p. 4909; Gaz. vol. 139; p. 881.
- Maslen, F. B., Moberly, Mo. Swimming-suit. No. 930,303; Aug. 3; Sp. p. 1373; Gaz. vol. 145; p. 228.
- Mason, A. E. (See Holman, G. M., assignor.)
- Mason, A. J. (See Hoover and Mason.)
- Mason, C. A., *et al.* (See Roscoe, D. L., assignor.)
- Mason, C. A., Washington, D. C. Dish-mop. No. 908,791; Jan. 5; Sp. p. 752; Gaz. vol. 138; p. 118.
- Mason, C. A., Spokane, Wash. Attachment for leading bicycles. No. 937,835; Oct. 26; Sp. p. 4661; Gaz. vol. 147; p. 807.
- Mason, C. H. (See Abrams and Mason.)
- Mason, C. H., *et al.* (See Schirra, J., assignor.)
- Mason, C. O., Attleboro Falls, Mass. Bracelet-bag. No. 919,613; Apr. 27; Sp. p. 5706; Gaz. vol. 141; p. 981.
- Mason, C. O., Attleboro Falls, Mass. Box-fastener. No. 942,839; Dec. 7; Sp. p. 1664; Gaz. vol. 149; p. 272.
- Mason, C. O., North Attleboro, Mass. Machine for applying fastening devices to boxes. No. 926,670; June 29; Sp. p. 7421; Gaz. vol. 143; p. 1309.
- Mason, C. T., Sumter, S. C. Battery-holder. No. 912,705; Feb. 16; Sp. p. 3486; Gaz. vol. 139; p. 622.
- Mason, C. T., assignor to Sumter Telephone Mfg. Co., Sumter, S. C. Telephone-transmitter. No. 917,633; Apr. 6; Sp. p. 1306; Gaz. vol. 141; p. 230.
- Mason, C. T., assignor to Sumter Telephone Mfg. Co., Sumter, S. C. Lightning-arrester. No. 940,176; Nov. 16; Sp. p. 3835; Gaz. vol. 148; p. 651.
- Mason, F. C., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweeper. No. 914,438; Mar. 9; Sp. p. 1662; Gaz. vol. 140; p. 284.
- Mason, F. E., Stroud, Okla. Letter-opener. No. 929,233; July 27; Sp. p. 5237; Gaz. vol. 144; p. 927.
- Mason, G. C., Sebastopol, Cal. Gate-hinge. No. 929,682; Aug. 3; Sp. p. 80; Gaz. vol. 145; p. 15.
- Mason, H. (See Bonin and Mason.)
- Mason, H. L., Buffalo, N. Y., assignor to Mason Safety Rail Joint Lock Company. Rail-joint lock. No. 926,88E; July 6; Sp. p. 383; Gaz. vol. 144; p. 62.
- Mason, H. M., and F. Ohe, Oakland, Cal. Rail-fastening device. No. 941,264; Nov. 23; Sp. p. 6221; Gaz. vol. 148; p. 1043.
- Mason, H. R., Wilkensburg, Pa. Hose-coupling. No. 919,743; Apr. 27; Sp. p. 5962; Gaz. vol. 141; p. 1024.
- Mason, I., New York, N. Y. Chair. No. 935,385; Sept. 28; Sp. p. 4849; Gaz. vol. 146; p. 857.
- Mason, J., San Diego, Cal. Monkey-wrench. No. 921,860; May 18; Sp. p. 3655; Gaz. vol. 142; p. 644.
- Mason, J. A., Newton, Mass. Sheet-metal folder. No. 944,566; Dec. 28; Sp. p. 5478; Gaz. vol. 149; p. 951.
- Mason, J. B., Gobleville, Mich. Roost for fowls. No. 911,738; Feb. 9; Sp. p. 1417; Gaz. vol. 139; p. 264.
- Mason, J. D., Gladys, Va. Curtain-stretcher. No. 925,366; June 15; Sp. p. 4770; Gaz. vol. 143; p. 814.
- Mason, J. M., assignor to O. Roberts, Brookline, Mass. Calculator. No. 923,981; June 8; Sp. p. 1944; Gaz. vol. 143; p. 323.
- Mason, R. L., *et al.* (See McCabe, J. D., assignor.)
- Mason, S. C., Salem, Mass. Form. No. 921,263; May 11; Sp. p. 2384; Gaz. vol. 142; p. 418.
- Mason Safety Rail Joint Lock Company. (See Mason, H. L., assignor.)
- Mason, T. (See Johnson, T., assignor.)
- Mason, T. (See Sherron and Mason.)
- Mason, T., New York, N. Y. Pipe hanger and anchor and connection therebetween. No. 915,782; Mar. 23; Sp. p. 4404; Gaz. vol. 140; p. 781.
- Mason, T., New York, N. Y. Expansion anchor and bolt. No. 925,006; June 15; Sp. p. 4105; Gaz. vol. 143; p. 698.
- Mason, T. C., Los Angeles, Cal., assignor to Mechanical & Electrical Appliances Company, Carson City, Nev. Apparatus for preventing collisions on railways. No. 937,377; Oct. 19; Sp. p. 3703; Gaz. vol. 147; p. 636.
- Mason, V. W., Jr., and G. L. Rochelle, said Rochelle assignor to Standard Milk Flour Company, New York, N. Y. Desiccating and pulverizing apparatus. No. 933,090; Sept. 7; Sp. p. 109; Gaz. vol. 146; p. 19.
- Mason, W. J., Daphne, Ala. Horse-tail tether. No. 940,937; Nov. 23; Sp. p. 5518; Gaz. vol. 148; p. 934.
- Mason, W. K. (See Davis, R. B., assignor.)
- Massa, R. F., Chicago, Ill. System of refrigeration. No. 912,866; Feb. 16; Sp. p. 3822; Gaz. vol. 139; p. 673.
- Massa, R. F., Chicago, Ill. Automatic refrigerating apparatus. No. 929,151; July 27; Sp. p. 5073; Gaz. vol. 144; p. 901.
- Massachusetts Chemical Company. (See Gleason, F. J., assignor.)
- Massachusetts Saw Works. (See Bradford and Olson, assignors.)
- Massachusetts Wireless Equipment Company. (See Pierce, G. W., assignor.)
- Massey, B. A., Knoxville, Tenn. Kitchen and laundry stool. No. 911,893; Feb. 9; Sp. p. 1695; Gaz. vol. 139; p. 314.
- Massey-Harris Company. (See Jones, L. M., assignor.)
- Massey, T. C., Chicago, Ill. Vise. No. 927,988; July 13; Sp. p. 2672; Gaz. vol. 144; p. 455.
- Massie, W. O., Pueblo, Colo. Apparatus for delivering and receiving mail. No. 924,085; June 8; Sp. p. 2129; Gaz. vol. 143; p. 355.
- Massie, W. W., assignor to Massie Wireless Telegraph Company, Providence, R. I. Coherer. No. 932,799; Aug. 31; Sp. p. 6728; Gaz. vol. 145; p. 1154.
- Massie, W. W., assignor to Massie Wireless Telegraph Company, Providence, R. I. Wireless telegraphy. No. 935,386; Sept. 28; Sp. p. 4851; Gaz. vol. 146; p. 858.
- Massie Wireless Telegraph Company. (See Massie, W. W., assignor.)
- Massillon, F., Mexico, Mexico. Machine for molding tubes. No. 918,880; Apr. 20; Sp. p. 4000; Gaz. vol. 141; p. 702.
- Masson, P. W., *et al.* (See Conradi, Tilton, and Masson.)
- Masson, R. S., Berkeley, Cal. Current-leak indicator for electrical conductors. No. 929,773; Aug. 3; Sp. p. 297; Gaz. vol. 145; p. 51.
- Masters, F. S. (See West, Masters, and Lott.)
- Masters, G. A., Chicago, Ill. Reinforced concrete construction. No. 916,748; Mar. 30; Sp. p. 6250; Gaz. vol. 140; p. 1118.
- Masters, H. M., Dellroy, Ohio. Music holder and turner. No. 942,399; Dec. 7; Sp. p. 770; Gaz. vol. 149; p. 124.
- Masters, S., Cleveland, Transvaal. Means for fixing bosses upon their shafts. No. 923,678; June 1; Sp. p. 1246; Gaz. vol. 143; p. 193.
- Mastin, C. I. E., Paterson, N. J. Gasket. No. 935,387; Sept. 28; Sp. p. 4854; Gaz. vol. 146; p. 858.
- Mastin, C. I. E., Midland Park, and E. L. Perry, Paterson, N. J. Packing and making the same. No. 943,692; Dec. 21; Sp. p. 3583; Gaz. vol. 149; p. 624.
- Mastin, J. G., Chicago, Ill. Liquid-nozzle. No. 932,800; Aug. 31; Sp. p. 6729; Gaz. vol. 145; p. 1154.
- Mastrangel, L., New York, N. Y. Micrometer-gage. No. 914,855; Mar. 9; Sp. p. 2525; Gaz. vol. 140; p. 422.
- Matulla, G., Godfrey, Ill. Windmill toy. No. 929,316; July 27; Sp. p. 5445; Gaz. vol. 144; p. 958.
- Matalene, H. W., Boston, Mass. Stem-winding watch. No. 918,757; Apr. 20; Sp. p. 3734; Gaz. vol. 141; p. 662.
- Matalene, H. W., Boston, Mass. Stem-winding watch. No. 918,758; Apr. 20; Sp. p. 3736; Gaz. vol. 141; p. 663.
- Matalene, H. W., Boston, Mass. Stem winding and setting watch. No. 918,759; Apr. 20; Sp. p. 3738; Gaz. vol. 141; p. 663.
- Matcham, C. A., Allentown, assignor to Fuller Engineering Company, Catasauqua, Pa. Kiln. No. 939,049; Nov. 2; Sp. p. 1285; Gaz. vol. 148; p. 207.
- Matchette, F. J., Milwaukee, Wis. Dust-collector. No. 926,070; June 22; Sp. p. 6242; Gaz. vol. 143; p. 1076.
- Matchette, F. J., and C. Moukos, Milwaukee, Wis., said Moukos assignor to said Matchette. Vacuum-sweeper. No. 936,465; Oct. 12; Sp. p. 1828; Gaz. vol. 147; p. 304.
- Matchless Cigar Lighter Company. (See Weisz, A. R., assignor.)
- Matchless Match Company. (See Gonon, P. E., assignor.)
- Maté, F. P., Habana, Cuba. Hat. No. 930,304; Aug. 3; Sp. p. 1374; Gaz. vol. 145; p. 228.
- Matéjka, F., Rodgers, Tex. Rail connection. No. 928,393; July 20; Sp. p. 3532; Gaz. vol. 144; p. 624.
- Matheny, T. (See Hastings and Matheny.)
- Mather, A. C., Chicago, Ill. Railway-switch. No. 912,480; Feb. 16; Sp. p. 3000; Gaz. vol. 139; p. 542.
- Mather, A. C., Chicago, Ill. Clutch. No. 932,155; Aug. 24; Sp. p. 5377; Gaz. vol. 145; p. 917.
- Mather, A. C., Chicago, Ill. Weighing device. No. 935,214; Sept. 28; Sp. p. 4506; Gaz. vol. 146; p. 801.
- Mather, A. C., Chicago, Ill. Railway-signal. No. 935,215; Sept. 28; Sp. p. 4508; Gaz. vol. 146; p. 802.
- Mather, A. G., Ottawa, Ontario, Canada. Variable-speed mechanism. No. 928,679; July 20; Sp. p. 4113; Gaz. vol. 144; p. 717.
- Mather, D. H., assignor of one-third to J. F. Mitchell and one-third to C. Karst, Ladysmith, Wis. Ironing-board. No. 932,040; Aug. 24; Sp. p. 5143; Gaz. vol. 145; p. 878.
- Mather, F. R., Whitesville, N. Y. Wheel. No. 929,234; July 27; Sp. p. 5238; Gaz. vol. 144; p. 928.
- Mather, H. A., Pocatello, Idaho. Syringe. No. 916,177; Mar. 23; Sp. p. 5135; Gaz. vol. 140; p. 909.
- Mather, L. V., Milan, Mich. Seal. No. 918,570; Apr. 20; Sp. p. 3281; Gaz. vol. 141; p. 597.

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- Mathers, E. A., assignor of one-half to D. H. Harner, Philadelphia, Pa. Ore-smelter. No. 916,176; Mar. 23; Sp. p. 5132; Gaz. vol. 140; p. 908.
- Mathers, F. C., Bloomington, Ind. Electrolytic deposition of metals. No. 931,944; Aug. 24; Sp. p. 4934; Gaz. vol. 145; p. 846.
- Mathers, G. P., Cincinnati, Ohio. Collar-pad holder. No. 937,082; Oct. 19; Sp. p. 3072; Gaz. vol. 147; p. 540.
- Mathers, K., Chicago, Ill. Flue-welding machine. No. 937,083; Oct. 19; Sp. p. 3074; Gaz. vol. 147; p. 540.
- Mathes, B. C., Rochester, N. Y. Caster. No. 927,061; July 6; Sp. p. 764; Gaz. vol. 144; p. 121.
- Mathes, B. C., Rochester, N. Y. Caster-wheel. No. 932,624; Aug. 31; Sp. p. 6353; Gaz. vol. 145; p. 1096.
- Mathes, J. A., Chicago, Ill. Kerosene incandescent lamp. No. 913,746; Mar. 2; Sp. p. 146; Gaz. vol. 140; p. 25.
- Mathesius, W. (See Thies and Mathesius.)
- Matheson, E., *et al.* (See Curtiss, E., assignor.)
- Matheson, M. L., *et al.* (See Curtiss, E., assignor.)
- Matheson, R., Quartzsite, Ariz. Ter. Incandescent lamp. No. 932,486; Aug. 31; Sp. p. 6047; Gaz. vol. 145; p. 1049.
- Mathews, C. E., Doylestown, Wis. Attachment for stoves. No. 940,542; Nov. 16; Sp. p. 4669; Gaz. vol. 148; p. 776.
- Mathews, F., Philadelphia, Pa., assignor to Q & H Co., Chicago, Ill. Door-hanger. No. 917,336; Apr. 6; Sp. p. 778; Gaz. vol. 141; p. 132.
- Mathews, G. H., New Market, Iowa. Adjustable vehicle-thill. No. 909,310; Jan. 12; Sp. p. 1796; Gaz. vol. 138; p. 322.
- Mathews, G. O., *et al.* (See Sanders, R. L., assignor.)
- Mathews Gravity Carrier Company. (See Courtney, W. E., assignor.)
- Mathews, J., Chicago, Ill. Machine for making wire-netting. No. 932,156; Aug. 24; Sp. p. 5379; Gaz. vol. 145; p. 917.
- Mathews, J. L. (See Lane and Mathews.)
- Mathews, J. R., Fairbanks, Alaska. Hose connection for steam thaw-points. No. 914,151; Mar. 2; Sp. p. 1054; Gaz. vol. 140; p. 167.
- Mathewson, C. P. (See Schell, C. W., assignor.)
- Mathewson, H., Shenandoah, Pa. Coal and slate separator. No. 920,972; May 11; Sp. p. 1792; Gaz. vol. 142; p. 318.
- Mathewson, J. A., Toronto, Ontario, Canada. Rack for ovens and other purposes. No. 934,557; Sept. 21; Sp. p. 3188; Gaz. vol. 146; p. 556.
- Mathias, H. J., Philadelphia, Pa. Range. No. 937,455; Oct. 19; Sp. p. 3895; Gaz. vol. 147; p. 662.
- Mathiesen, W., Leutzsch-Leipzig, Germany. Multiple-arc lamp. No. 920,485; May 4; Sp. p. 784; Gaz. vol. 142; p. 127.
- Mathieson Alkali Works. (See Mount, W. D., assignor.)
- Mathis, A., Chicago, Ill., assignor to Mathis Brothers Company. Air-heater. No. 909,632; Jan. 12; Sp. p. 2422; Gaz. vol. 138; p. 429.
- Mathis, A., Chicago, Ill., assignor to Mathis Brothers Company. Air-mover. No. 928,775; July 20; Sp. p. 4292; Gaz. vol. 144; p. 748.
- Mathis Brothers Company. (See Mathis, A., assignor.)
- Mathis, J., and H. J. Brennan, Glassport, Pa. Automatic self-closing funnel. No. 925,931; June 22; Sp. p. 5964; Gaz. vol. 143; p. 1029.
- Mathy, J., Washington, D. C. Domestic baker and steamer. No. 925,781; June 22; Sp. p. 5649; Gaz. vol. 143; p. 980.
- Matlak, A., assignor of ten thirty-seconds to K. Wisniewski, ten thirty-seconds to M. Skikiewicz, and ten thirty-seconds to F. P. Kujawski, Chicago, Ill. Mail receiver and deliverer for railway-trains. No. 913,835; Mar. 2; Sp. p. 321; Gaz. vol. 140; p. 56.
- Matonsek, J. A., Cleveland, Ohio. Gas extinguisher and lighter. No. 928,776; July 20; Sp. p. 4294; Gaz. vol. 144; p. 749.
- Matosin, N. M. (See Mestrovich, C., assignor.)
- Matschuk, F. (See Emerley and Matschuk.)
- Matsek, J., assignor of one-fourth to W. Gallia and one-fourth to M. Arthur and G. C. Davis, Blanca, Colo. Stirrup. No. 944,889; Dec. 28; Sp. p. 6162; Gaz. vol. 149; p. 1060.
- Matson, A. E., Eureka, Cal. Tobacco-pipe. No. 933,091; Sept. 7; Sp. p. 113; Gaz. vol. 146; p. 19.
- Matson, T., Philadelphia, Pa. Explosion-engine. No. 912,012; Feb. 9; Sp. p. 2032; Gaz. vol. 139; p. 353.
- Matta, G., Braddock, Pa. Antifriction-bearing. No. 913,529; Feb. 23; Sp. p. 5161; Gaz. vol. 139; p. 920.
- Mattell, L. C., Washington, D. C. Sewing-machine apron. No. 921,720; May 18; Sp. p. 3352; Gaz. vol. 142; p. 597.
- Matter, A. J., Portland, Oreg. Protractor-level. No. 933,912; Sept. 14; Sp. p. 1943; Gaz. vol. 146; p. 320.
- Mattern, E. O., Portland, Oreg. Automatic prescription-lens-grinding machine. No. 939,845; Nov. 9; Sp. p. 3066; Gaz. vol. 148; p. 506.
- Mattern, J., Tyrone, Pa. Harrow. No. 933,719; Sept. 7; Sp. p. 1550; Gaz. vol. 146; p. 235.
- Matteson, G. F., assignor to Winchester Repeating Arms Co., New Haven, Conn. Telescope-sight for firearms. No. 912,011; Feb. 9; Sp. p. 2029; Gaz. vol. 139; p. 353.
- Matteson, R. S., Providence, assignor to O. T. Inman, Bridgeton, and J. A. King, Warwick, R. I. Machine for making horseshoes. No. 942,370; Dec. 7; Sp. p. 711; Gaz. vol. 149; p. 115.
- Matthai, H. E., Chicago, Ill. Automatic light-extinguisher. No. 937,836; Oct. 26; Sp. p. 4662; Gaz. vol. 147; p. 807.
- Matthes & Company, E. (See Karpa, C., assignor.)
- Matthews, A. E., Denver, Colo. Building-block and wall. No. 932,157; Aug. 24; Sp. p. 5381; Gaz. vol. 145; p. 918.
- Matthews, G., Riga, Mich. Peat-working machine. No. 932,041; Aug. 24; Sp. p. 5145; Gaz. vol. 145; p. 879.
- Matthews, G. B., assignor of one-half to W. B. Matthews, Washington, D. C. Puzzle. No. 939,050; Nov. 2; Sp. p. 1287; Gaz. vol. 148; p. 207.
- Matthews, H., Kidderminster, England. Pork or like scorer. No. 939,846; Nov. 9; Sp. p. 3070; Gaz. vol. 148; p. 507.
- Matthews, J., Chicago, Ill. Land and water vehicle. No. 944,044; Dec. 21; Sp. p. 4327; Gaz. vol. 149; p. 746.
- Matthews, J., and G. Veitch, Birmingham, Ala. Rotary engine. No. 910,007; Jan. 19; Sp. p. 3174; Gaz. vol. 138; p. 587.
- Matthews, J. C., Three Rivers, Mich. Tempering apparatus. No. 908,590; Jan. 5; Sp. p. 337; Gaz. vol. 138; p. 55.
- Matthews, J. I., Boise, Idaho. Saw attachment. No. 939,051; Nov. 2; Sp. p. 1288; Gaz. vol. 148; p. 207.
- Matthews, J. L., San Diego, Cal. Wave-motor. No. 938,681; Nov. 2; Sp. p. 524; Gaz. vol. 148; p. 80.
- Matthews, J. Q., Denver, Colo. Knockdown box or crate. No. 912,590; Feb. 16; Sp. p. 3240; Gaz. vol. 139; p. 581.
- Matthews, N. J., Newark, N. J., assignor to Robertson Sales Co. Vending apparatus. No. 913,413; Feb. 23; Sp. p. 4910; Gaz. vol. 139; p. 881.
- Matthews, T. O., Avalon borough, assignor to J. H. Matthews & Co., Pittsburg, Pa. Can-marking device. No. 926,271; June 29; Sp. p. 6678; Gaz. vol. 143; p. 1178.
- Matthews, W. B. (See Simms, R., assignor.)
- Matthews, W. B. (See Matthews, G. B., assignor.)
- Matthews, W. R., assignor to McConway & Torley Company, Pittsburg, Pa. Draft-gear for railway-cars. No. 914,665; Mar. 9; Sp. p. 2109; Gaz. vol. 140; p. 358.
- Matthews, W. R., assignor to McConway & Torley Company, Pittsburg, Pa. Draft-gear for railway-cars. No. 922,708; May 25; Sp. p. 5379; Gaz. vol. 142; p. 948.
- Matthiessen, F. W., Jr., assignor to La Salle Machine & Tool Company, La Salle, Ill. Metal-shearing machine. No. 921,861; May 18; Sp. p. 3656; Gaz. vol. 142; p. 644.
- Mattice, C. H., Green Island, assignor to Adams Laundry Machinery Company, Troy, N. Y. Mangle. No. 928,315; July 20; Sp. p. 3398; Gaz. vol. 144; p. 597.
- Mattice, R., Wichita, Kans. Metallic fence-post. No. 944,342; Dec. 28; Sp. p. 4944; Gaz. vol. 149; p. 872.
- Mattlingly, J., Marshall, Tex. Air-valve cage for air-brake pumps. No. 912,706; Feb. 16; Sp. p. 3458; Gaz. vol. 139; p. 622.
- Mattison, E. D., Chicago, Ill., assignor to M. & L. Novelty Company. Folding stand or bookcase. No. 915,618; Mar. 16; Sp. p. 4041; Gaz. vol. 140; p. 698.
- Mattison, R. V., Jr., Upper Dublin township, Montgomery county, assignor to Keasbey & Mattison Company, Ambler, Pa. Integral locomotive-mattress. No. 912,971; Feb. 16; Sp. p. 4022; Gaz. vol. 139; p. 706.
- Mattman, E. (See Behrend and Mattman.)
- Mattman, E., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Induction-motor. No. 917,471; Apr. 6; Sp. p. 1013; Gaz. vol. 141; p. 177.
- Mattman, E., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Rotor construction. No. 922,794; May 25; Sp. p. 5553; Gaz. vol. 142; p. 976.
- Mattman, E., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Support for commutator-leads. No. 932,042; Aug. 24; Sp. p. 5156; Gaz. vol. 145; p. 879.
- Mattman, E., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Induction-motor. No. 932,625; Aug. 31; Sp. p. 6354; Gaz. vol. 145; p. 1096.
- Mattman, E., Milwaukee, Wis., assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 931,448; Aug. 17; Sp. p. 3858; Gaz. vol. 145; p. 665.
- Mattox, R. W., West Tocol, Fla. Thermometer. No. 926,993; July 6; Sp. p. 585; Gaz. vol. 144; p. 96.
- Mattson, H. P., Englewood, N. J. Safety-bridle. No. 910,703; Jan. 26; Sp. p. 4650; Gaz. vol. 138; p. 845.
- Mattson, O. A. (See Lindgren and Mattson.)
- Matweff, R., Tatar-Pazardjik, Bulgaria. Composition for treating teeth. No. 937,683; Oct. 19; Sp. p. 4326; Gaz. vol. 147; p. 737.
- Matzner, M., Brooklyn, N. Y. Safety appliance. No. 936,006; Oct. 5; Sp. p. 858; Gaz. vol. 147; p. 129.
- Mauborgne, F. J., New York, N. Y. Knockdown table. No. 936,007; Oct. 5; Sp. p. 859; Gaz. vol. 147; p. 129.
- Mauborgne, F. J., New York, N. Y., assignor to J. R. Fitzgerald, Newark, N. J. Mattress and furniture spring. No. 936,649; Oct. 12; Sp. p. 2220; Gaz. vol. 147; p. 368.
- Mauck, J. A., Princeton, Ind. Bull-shaft drum for well-drilling. No. 935,532; Sept. 28; Sp. p. 5148; Gaz. vol. 146; p. 905.



*Alphabetical list of patentees—Continued.*

- Maudry, J., assignor to Gebr. Böhler & Co., Aktiengesellschaft, Vienna, Austria-Hungary. Firearm. No. 930,305; Aug. 3; Sp. p. 1375; Gaz. vol. 145; p. 228.
- Mauer, W. C., Greeley, Colo. Beet digger and toppler. No. 938,263; Oct. 26; Sp. p. 5571; Gaz. vol. 147; p. 952.
- Mauersberger, O., Schenectady, N. Y. Shoe-fastener. No. 918,571; Apr. 20; Sp. p. 3282; Gaz. vol. 141; p. 598.
- Mauksch, A., near Tabor, S. D.; A. J. Wilcox, executor. Steering mechanism. No. 935,610; Sept. 28; Sp. p. 5315; Gaz. vol. 146; p. 932.
- Mauldin, B. I., Ozona, Tex. Trough-valve. No. 927,368; July 6; Sp. p. 1327; Gaz. vol. 144; p. 221.
- Mauiller, G. A., St. Louis, Mo. Garbage-receptacle. No. 935,800; Oct. 5; Sp. p. 411; Gaz. vol. 147; p. 61.
- Maunsell, M. C., Westminster, London, England. Explosive projectile. No. 911,420; Feb. 2; Sp. p. 771; Gaz. vol. 139; p. 134.
- Mauny, L. F., Montrouge, France. Paper primer for toy pistols and rifles. No. 934,740; Sept. 21; Sp. p. 3549; Gaz. vol. 146; p. 619.
- Maurer, A. A., Dalton, Ohio. Mail-carrier support. No. 915,102; Mar. 16; Sp. p. 2995; Gaz. vol. 140; p. 529.
- Maurer, F., Nuremberg, Germany. Machine for the production of stereotype-matrices. No. 911,421; Feb. 2; Sp. p. 774; Gaz. vol. 139; p. 134.
- Maurer, G. H., Washington, D. C. Garment-fastener. No. 912,707; Feb. 16; Sp. p. 3490; Gaz. vol. 139; p. 622.
- Maurer, H. W., assignor, by mesne assignments, to Taylor Instrument Companies, Rochester, N. Y. Vacuum-gage. No. 914,666; Mar. 9; Sp. p. 2112; Gaz. vol. 140; p. 359.
- Maurer, H. W., assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer. No. 925,120; June 15; Sp. p. 4320; Gaz. vol. 143; p. 736.
- Maurer, H. W., assignor to Taylor Instrument Companies, Rochester, N. Y. Bottle-closure. No. 936,467; Oct. 12; Sp. p. 1835; Gaz. vol. 147; p. 305.
- Maurer, J., assignor of one-third to M. E. Boerngen, Kansas City, Mo. Folding bed. No. 932,626; Aug. 31; Sp. p. 6356; Gaz. vol. 145; p. 1097.
- Mauro, P., *et al.*, trustees. (See Mann, W. B., assignor.)
- Maus, R. S. (See Lytle, W. W., assignor.)
- Mausner, P., Oberndorf-on-the-Neckar, Germany. Recoil-loading rifle. No. 918,760; Apr. 20; Sp. p. 3739; Gaz. vol. 141; p. 663.
- Mausner, P., Oberndorf-on-the-Neckar, Germany. Magazine arrangement for firearms, especially for recoil-loading firearms. No. 922,497; May 25; Sp. p. 4931; Gaz. vol. 142; p. 878.
- Mausner, P., Oberndorf-on-the-Neckar, Germany. Firearm. No. 924,169; June 8; Sp. p. 2341; Gaz. vol. 143; p. 384.
- Mausner, P., Oberndorf-on-the-Neckar, Germany. Safety device for firearms, *etc.* No. 930,206; Aug. 3; Sp. p. 1207; Gaz. vol. 145; p. 198.
- Mausner, P., Oberndorf-on-the-Neckar, Germany. Recoil-loader with fixed barrel. No. 943,949; Dec. 21; Sp. p. 4120; Gaz. vol. 149; p. 714.
- Mausner, P., assignor to Firm of Waffenfabrik Mauser Actiengesellschaft, Oberndorf-on-the-Neckar, Germany. Recoil-operated small-arm. No. 911,315; Feb. 2; Sp. p. 578; Gaz. vol. 139; p. 99.
- Mausolf, P., Frankfort-on-the-Main, Germany, assignor to Roessler and Hasslacher Chemical Co., New York, N. Y. Substitute for soap for washing, cleaning, and bleaching purposes. No. 941,158; Nov. 23; Sp. p. 5988; Gaz. vol. 148; p. 1007.
- Mauss, W., Brakpan, Transvaal. Percussion-machine. No. 910,560; Jan. 26; Sp. p. 4370; Gaz. vol. 138; p. 801.
- Mauss, W., Brakpan, assignor to Konomax Rock Drill Syndicate Limited, Johannesburg, Transvaal. Percussion-engine. No. 931,449; Aug. 17; Sp. p. 3859; Gaz. vol. 145; p. 666.
- Mauss, W., Brakpan, assignor to Konomax Rock Drill Syndicate Limited, Johannesburg, Transvaal. Percussive machine and tool. No. 936,550; Oct. 12; Sp. p. 2012; Gaz. vol. 147; p. 331.
- Mautz, F. S. (See Bailey, R., assignor.)
- Mauvernay, P. M. C., Lyon, France. Heating liquids. No. 911,829; Feb. 9; Sp. p. 1575; Gaz. vol. 139; p. 293.
- Mavor, H. A., Mile End, Glasgow, Scotland. Multiphase electric induction-motor. No. 912,144; Feb. 9; Sp. p. 2280; Gaz. vol. 139; p. 395.
- Mavor, H. A., Mile End, Glasgow, Scotland. Control of electric motors. No. 944,453; Dec. 28; Sp. p. 5198; Gaz. vol. 149; p. 911.
- Maw, G. L., Buffalo, N. Y. Collection-safe. No. 944,198; Dec. 21; Sp. p. 4641; Gaz. vol. 149; p. 795.
- Max Ams Machine Company. (See Brenzinger, J., assignor.)
- Max Ams Machine Company. (See Brenzinger, J., assignor.) (Reissue.)
- Maxdon, T. V., Crawfordsville, Ind. Printed manifolding-form. No. 935,801; Oct. 5; Sp. p. 412; Gaz. vol. 147; p. 61.
- Maxey, W. S., Caldwell, Idaho. Wire-cloth rack. No. 927,570; July 13; Sp. p. 1770; Gaz. vol. 144; p. 316.
- Maxfield, J. R., Grand Saline, Tex. Permutation-lock. No. 911,144; Feb. 2; Sp. p. 242; Gaz. vol. 139; p. 43.
- Maxfield, L. H., Godfrey, assignor to Illinois Stoker Company, Alton, Ill. Chain-grate furnace. No. 944,454; Dec. 28; Sp. p. 5202; Gaz. vol. 149; p. 611.
- Maxim, H., New York, N. Y. Apparatus for charging projectiles. No. 927,867; July 13; Sp. p. 2430; Gaz. vol. 144; p. 415.
- Maxim, H., New York, N. Y. Smokeless-powder grain. No. 930,979; Aug. 10; Sp. p. 2812; Gaz. vol. 145; p. 476.
- Maxim, H., New York, N. Y. Producing motive fluid. No. 931,135; Aug. 17; Sp. p. 3183; Gaz. vol. 145; p. 557.
- Maxim, H., Brooklyn, N. Y. Automobile torpedo. No. 937,217; Oct. 19; Sp. p. 3363; Gaz. vol. 147; p. 584.
- Maxim, H. P., Hartford, Conn., assignor to Maxim Silent Firearms Company, New York, N. Y. Silent firearm. No. 916,885; Mar. 30; Sp. p. 6503; Gaz. vol. 140; p. 1162.
- Maxim, H. P., Hartford, Conn., assignor to Maxim Silent Firearms Company, New York, N. Y. Sand-box for rifle practice. No. 941,642; Nov. 30; Sp. p. 7017; Gaz. vol. 148; p. 1187.
- Maxim Silent Firearms Company. (See Maxim, H. P., assignor.)
- Maxsfield, A. A. (See Parker, W. H., assignor.)
- Maxwell, A. L., Detroit, Mich. Reamer for thread-cutters. No. 926,272; June 29; Sp. p. 6680; Gaz. vol. 143; p. 1179.
- Maxwell, B. C., assignor to J. Whiting, Jr., trustee, Canton, Ohio. Manifolding-pad. No. 939,148; Nov. 2; Sp. p. 1494; Gaz. vol. 148; p. 242.
- Maxwell, B. C., assignor to J. Whiting, Jr., trustee, Canton, Ohio. Manifolding-book. No. 939,149; Nov. 2; Sp. p. 1496; Gaz. vol. 148; p. 242.
- Maxwell, B. C., assignor to J. Whiting, Jr., trustee, Canton, Ohio. Manifolding book or pad. No. 939,150; Nov. 2; Sp. p. 1498; Gaz. vol. 148; p. 243.
- Maxwell, B. C., assignor to J. Whiting, Jr., trustee, Canton, Ohio. Manifolding book or pad. No. 939,151; Nov. 2; Sp. p. 1500; Gaz. vol. 148; p. 243.
- Maxwell, G. W., San Francisco, Cal. Milk-container. No. 923,061; May 25; Sp. p. 6116; Gaz. vol. 142; p. 1062.
- Maxwell, G. W., and J. J. Brewer, St. Paul, Minn.; said Brewer assignor to said Maxwell. Honey-box section. No. 929,616; July 27; Sp. p. 6019; Gaz. vol. 144; p. 1053.
- Maxwell, H., Schenectady, N. Y., assignor to General Electric Company. Control of alternating-current motors. No. 918,688; Apr. 20; Sp. p. 3600; Gaz. vol. 141; p. 638.
- Maxwell, J. G., Washington, Pa. Wheel. No. 927,259; July 6; Sp. p. 1151; Gaz. vol. 144; p. 188.
- Maxwell, J. G., Washington, Pa. Tire. No. 942,654; Dec. 7; Sp. p. 1297; Gaz. vol. 149; p. 212.
- Maxwell, J. G., Washington, D. C. Hammock. No. 909,102; Jan. 5; Sp. p. 1374; Gaz. vol. 138; p. 220.
- Maxwell, J. M., Mount Oliver, Pa. Shearing-machine. No. 932,992; Aug. 31; Sp. p. 7069; Gaz. vol. 145; p. 1215.
- Maxwell, R., Peru, Kans. Belt-fastener. No. 923,546; June 1; Sp. p. 954; Gaz. vol. 143; p. 148.
- Maxwell, W. C., Ocala, Fla. Railway-track-tamping machine. No. 939,847; Nov. 9; Sp. p. 3071; Gaz. vol. 148; p. 507.
- Maxwell, W. S., assignor of one-half to A. F. Ittner, St. Louis, Mo. Hinge. No. 931,697; Aug. 17; Sp. p. 4375; Gaz. vol. 145; p. 743.
- Maxwell, W. S., assignor of one-half to A. F. Ittner, St. Louis, Mo. Handle-loop. No. 931,698; Aug. 17; Sp. p. 4376; Gaz. vol. 145; p. 743.
- May, A., administratrix. (See May and Treat.)
- May, A., New Orleans, La. Folding garment-rack. No. 927,369; July 6; Sp. p. 1328; Gaz. vol. 144; p. 221.
- May, A., New Orleans, La. Drip-cup for refrigerators. No. 932,878; Aug. 31; Sp. p. 6864; Gaz. vol. 145; p. 1178.
- May, A., New Orleans, La. Sandpapering-plane. No. 932,879; Aug. 31; Sp. p. 6867; Gaz. vol. 145; p. 1179.
- May, A., New Orleans, La. Circuit closing and breaking device for electrically-operated annunciators and the like. No. 938,394; Oct. 26; Sp. p. 5879; Gaz. vol. 147; p. 997.
- May, C. C., Jewett, Tex. Canning-furnace. No. 915,984; Mar. 23; Sp. p. 4784; Gaz. vol. 140; p. 845.
- May, D. W., Kansas City, Mo. Telephone system. No. 928,680; July 20; Sp. p. 4114; Gaz. vol. 144; p. 717.
- May, E., Magee, Miss. Cotton-chopper. No. 911,739; Feb. 9; Sp. p. 1418; Gaz. vol. 139; p. 264.
- May, E., New York, N. Y. Block-mold. No. 942,092; Dec. 7; Sp. p. 124; Gaz. vol. 149; p. 20.
- May, J. N., deceased, and C. A. Treat, Denver, Colo.; A. May, administratrix. Sign. No. 908,591; Jan. 5; Sp. p. 341; Gaz. vol. 138; p. 55.
- May, R. A., *et al.* (See King, C., assignor.)
- May, W. F. (See Jeffers, H. I., assignor.)
- May, W. S. (See Walrod and May.)
- Maybach, K., Paris, France. Carbureter. No. 936,337; Oct. 12; Sp. p. 1519; Gaz. vol. 147; p. 262.
- Mayberry, G. W., Philadelphia, Pa. Device for releasing horses and cattle in case of fire. No. 912,972; Feb. 16; Sp. p. 4023; Gaz. vol. 139; p. 706.
- Maycock, G. R., and G. E. Averett, Springville, Utah. Self-cleaning fish-screen. No. 916,570; Mar. 30; Sp. p. 5934; Gaz. vol. 140; p. 1065.
- Maydl, R. P., Würzburg, Germany. Hook-lock for furniture and the like. No. 924,912; June 15; Sp. p. 3904; Gaz. vol. 143; p. 666.
- Mayer, B. (See Scharschmidt and Mayer.)
- Mayer, B., Baltimore, Md. Apparatus for grinding bifocal lenses. No. 914,591; Mar. 9; Sp. p. 1968; Gaz. vol. 140; p. 336.

*Alphabetical list of patentees—Continued.*

- Mayer, B., and A. Pfannenstiel, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Sulfur vat dye and making same. No. 927,868; July 13; Sp. p. 2432; Gaz. vol. 144; p. 416.
- Mayer, C., St. Louis, Mo. Upright-piano case. No. 940,340; Nov. 16; Sp. p. 4206; Gaz. vol. 148; p. 709.
- Mayer, C., New York, N. Y. Mouth-brace. No. 943,361; Dec. 14; Sp. p. 2861; Gaz. vol. 149; p. 481.
- Mayer, C. K., Mankato, Minn. Copy-holder for linotype-machines. No. 918,572; Apr. 20; Sp. p. 3283; Gaz. vol. 141; p. 598.
- Mayer, E., and E. Strahlmann, San Diego, Cal. Truss. No. 909,435; Jan. 12; Sp. p. 2028; Gaz. vol. 138; p. 361.
- Mayer, F. G., assignor of one-half to H. McLellan, Mystic, S. D. Can-opener. No. 922,932; May 25; Sp. p. 5863; Gaz. vol. 142; p. 1021.
- Mayer, G. (See Hahn and Mayer.)
- Mayer, G. G., and R. Ashton, South Bethlehem, Pa. Coal or rock drill. No. 914,966; Mar. 9; Sp. p. 2715; Gaz. vol. 140; p. 457.
- Mayer, J., Rutherford, N. J. Trolley-wire suspender. No. 918,761; Apr. 20; Sp. p. 3741; Gaz. vol. 141; p. 664.
- Mayer, J. T., New York, N. Y., assignor to J. & C. Fischer. Combination musical instrument. No. 915,870; Mar. 23; Sp. p. 4559; Gaz. vol. 140; p. 810.
- Mayer, L. (See Wilkinson, J. W., assignor.)
- Mayer, L., Mankato, Minn. Traveling-excavator-frame structure. No. 916,347; Mar. 23; Sp. p. 5441; Gaz. vol. 140; p. 966.
- Mayer, L. H. (See Martino, J. de, assignor.)
- Mayer, M., Chicago, Ill. Attaching labels to garments, &c. No. 922,608; May 25; Sp. p. 5173; Gaz. vol. 142; p. 916.
- Mayer, M., Orange, N. J. Combined spittoon and ash-receiver. No. 923,192; June 1; Sp. p. 151; Gaz. vol. 143; p. 25.
- Mayer, M., Karlsruhe, Germany, and A. Fehlmann, Basel, Switzerland. Removing carbon bisulfid from gases. No. 926,273; June 29; Sp. p. 6681; Gaz. vol. 143; p. 1179.
- Mayer, O. R., Detroit, Mich. Loose-leaf binder. No. 917,093; Apr. 6; Sp. p. 270; Gaz. vol. 141; p. 49.
- Mayer, R. S. (See Mann, C. A., assignor.)
- Mayer, S., *et al.* (See Königstein, C., assignor.)
- Mayer, W., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Tilting ammunition-vehicle. No. 911,830; Feb. 9; Sp. p. 1577; Gaz. vol. 139; p. 293.
- Mayer, W., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Ammunition-vehicle. No. 923,869; June 8; Sp. p. 1728; Gaz. vol. 143; p. 283.
- Mayer, W., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Ammunition-wagon. No. 932,158; Aug. 24; Sp. p. 5383; Gaz. vol. 145; p. 918.
- Mayes, R. M., San Antonio, Tex. Dental handpiece. No. 911,510; Feb. 2; Sp. p. 921; Gaz. vol. 139; p. 161.
- Mayesky, A., and H. Boileau, Paris, France. Shock-deadener. No. 943,119; Dec. 14; Sp. p. 2361; Gaz. vol. 149; p. 401.
- Mayforth, J. H. (See Koch and Mayforth.)
- Mayger, G. G., *et al.* (See Smith, F. M., assignor.)
- Mayhew, E. M., assignor of one-half to T. H. Pegram, Mooresville, N. C. Vehicle-spring. No. 921,862; May 18; Sp. p. 3659; Gaz. vol. 142; p. 644.
- Mayhew, F. J. (See Taylor, H. H., assignor.)
- Mayhugh, C. W., Atchison, Kans. Locking whip-socket. No. 910,212; Jan. 19; Sp. p. 3604; Gaz. vol. 138; p. 654.
- Mayle, A. M., and A. C. Hoppe, Toledo, Ohio. Press. No. 920,360; May 4; Sp. p. 549; Gaz. vol. 142; p. 87.
- Maynard, C. A., assignor to Maynard Rubber Corporation, Springfield, Mass. Rubber-tire setter. No. 929,617; July 27; Sp. p. 6020; Gaz. vol. 144; p. 1054.
- Maynard, H. S., Glenview, Ill. Combination-bench. No. 922,011; May 18; Sp. p. 3964; Gaz. vol. 142; p. 693.
- Maynard, J. M., Hickory, N. C. Babbitting device. No. 922,012; May 18; Sp. p. 3966; Gaz. vol. 142; p. 693.
- Maynard Rubber Corporation. (See Maynard, C. A., assignor.)
- Maynard Rubber Corporation. (See Whitchee, F. B., assignor.)
- Maynard, W. H., Burlington, Vt. Game apparatus. No. 908,792; Jan. 5; Sp. p. 753; Gaz. vol. 138; p. 118.
- Mayo, B. F., Salem, Mass. Power-transmission mechanism. No. 936,338; Oct. 12; Sp. p. 1521; Gaz. vol. 147; p. 262.
- Mayo, B. F., Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Channeling and grooving knife. No. 911,512; Feb. 2; Sp. p. 928; Gaz. vol. 139; p. 162.
- Mayo, B. F., Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 918,573; Apr. 20; Sp. p. 3284; Gaz. vol. 141; p. 598.
- Mayo, B. F., Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-turning machine. No. 935,765; Oct. 5; Sp. p. 313; Gaz. vol. 147; p. 49.
- Mayo, B. F., Salem, and I. C. Buckminster, Beverly, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Sole-rounding machine. No. 911,511; Feb. 2; Sp. p. 923; Gaz. vol. 139; p. 162.
- Mayo, M. E., South Portland, assignor of one-half to W. N. Taylor, Portland, Me. Envelop-sealing machine. No. 923,193; June 1; Sp. p. 153; Gaz. vol. 143; p. 25.
- Mayo, R. D., Erie, Pa. Power-transmission mechanism. No. 914,740; Mar. 9; Sp. p. 2297; Gaz. vol. 140; p. 384.
- Mayo, T. H., Melrose, Mass., assignor to Eastern Counter Company. Leather-splitting machine. No. 935,533; Sept. 28; Sp. p. 5149; Gaz. vol. 146; p. 905.
- Mayo, W. C., and J. Houlehan, El Paso, assignors of one-third to G. E. Briggs, Barstow, Tex. Air-cleaning system. No. 918,574; Apr. 20; Sp. p. 3287; Gaz. vol. 141; p. 598.
- Mayo, W. C., and J. Houlehan, El Paso, assignors of one-third to G. E. Briggs, Barstow, Tex. Governor for explosive-engines. No. 920,074; Apr. 27; Sp. p. 6657; Gaz. vol. 141; p. 1133.
- Mayo, W. C., and J. Houlehan, El Paso, assignors of one-third to G. E. Briggs, Barstow, Tex. Cleaning apparatus. No. 923,547; June 1; Sp. p. 955; Gaz. vol. 143; p. 148.
- Mayor, F., New York, N. Y. Spool-holder. No. 918,180; Apr. 13; Sp. p. 2465; Gaz. vol. 141; p. 441.
- Mayr, C. (See Todd and Mayr.)
- Mayr, C., Charter Grove, Ill. Currycomb. No. 917,881; Apr. 13; Sp. p. 1852; Gaz. vol. 141; p. 338.
- Mayson, T. W., and J. Edgar, Auckland, New Zealand. Wheel-fender. No. 944,199; Dec. 21; Sp. p. 4646; Gaz. vol. 149; p. 796.
- Mazalin, J., Passaic, N. J. Envelop. No. 941,328; Nov. 23; Sp. p. 6345; Gaz. vol. 148; p. 1061.
- Mazanek, B., New York, N. Y., assignor, by mesne assignments, to Tea Tray Company of Newark, N. J. Horn-support. No. 968,009; Oct. 26; Sp. p. 5026; Gaz. vol. 147; p. 865.
- Mazza, E., Turin, Italy. Apparatus for separating the constituent elements of gaseous mixtures. No. 940,885; Nov. 23; Sp. p. 5403; Gaz. vol. 148; p. 916.
- Mazzanovich, A. L., New York, N. Y. Fender for street-cars. No. 941,527; Nov. 30; Sp. p. 6793; Gaz. vol. 148; p. 1151.
- Mazzolini, G., Rome, Italy. Door-operating mechanism. No. 938,068; Oct. 26; Sp. p. 5155; Gaz. vol. 147; p. 885.
- McAdam, F. C., Los Angeles, Cal. Boiler-alarm. No. 937,948; Oct. 26; Sp. p. 4895; Gaz. vol. 147; p. 845.
- McAdams, N. J., assignor of one-half to R. E. Oakley, Smyrna, Tenn. Gate. No. 929,462; July 27; Sp. p. 5717; Gaz. vol. 144; p. 1003.
- McAdie, A. G., San Francisco, Cal. Assisting forecasters in the preparation of weather maps, &c. No. 914,500; Mar. 9; Sp. p. 1777; Gaz. vol. 140; p. 305.
- McAfee, C. D., Burgettstown, Pa. Rail fastener and bond. No. 941,332; Nov. 23; Sp. p. 6352; Gaz. vol. 148; p. 1063.
- McAfee, D. R. (See Porter, J. M., assignor.)
- McAfee, J. D. (See Brown, R. J., assignor.)
- McAllister, H. H., Fitzgerald, Ga. Brake-shoe. No. 944,573; Dec. 28; Sp. p. 5489; Gaz. vol. 149; p. 953.
- McAllister, J., C. G. Anderson, and B. H. Hawkins, Buffalo, N. Y. Sliding-door fastener. No. 941,379; Nov. 30; Sp. p. 6471; Gaz. vol. 148; p. 1101.
- McAlpine, L. B., assignor to Climax Road Machine Co., Marathon, N. Y. Hitching and steering device. No. 941,939; Nov. 30; Sp. p. 7666; Gaz. vol. 148; p. 1291.
- McAndrews, T. F., and J. E. Bleibrey, Waterford, N. Y. Semaphore-controller. No. 924,489; June 8; Sp. p. 3004; Gaz. vol. 143; p. 490.
- McAnulty, H. T., Red Lake Falls, Minn. Educational device. No. 925,716; June 22; Sp. p. 5491; Gaz. vol. 143; p. 958.
- McAnulty, J. A. (See Reaney and McAnulty.)
- McAnulty, J. A., Baltimore, Md. Bottle-capping machine. No. 917,344; Apr. 6; Sp. p. 792; Gaz. vol. 141; p. 135.
- McArthur, A., Forbes, Mo. Automatic train and station mail receiving and delivering device. No. 913,967; Mar. 2; Sp. p. 653; Gaz. vol. 140; p. 103.
- McArthur, A., Forbes, Mo. Continuous-bearing railway-tie. No. 934,561; Sept. 21; Sp. p. 3197; Gaz. vol. 146; p. 557.
- McArthur, A., Forbes, Mo. Combined railway-tie and viaduct for wires. No. 943,700; Dec. 21; Sp. p. 3605; Gaz. vol. 149; p. 627.
- McArthur, A. R., Ellwood, Ind., assignor to American Sheet & Tin Plate Company, Pittsburg, Pa. Sheet-metal package. No. 932,049; Aug. 24; Sp. p. 5171; Gaz. vol. 145; p. 882.
- McArthur, A. R., Ellwood, Ind., assignor to American Sheet & Tin Plate Company, Pittsburg, Pa. Apparatus for forming sheet-metal packages. No. 936,799; Oct. 12; Sp. p. 2508; Gaz. vol. 147; p. 418.
- McArthur, C. D., Arlington, N. J. Centering-form. No. 932,993; Aug. 31; Sp. p. 7072; Gaz. vol. 145; p. 1216.
- McArthur, D., Jersey City, N. J. Pneumatic tire. No. 924,812; June 15; Sp. p. 3692; Gaz. vol. 143; p. 632.
- McArthur, W., Tenino, Wash. Apparatus for purifying gas. No. 933,097; Sept. 7; Sp. p. 125; Gaz. vol. 146; p. 21.



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- McAughy, W. J. (See Jobson, F. L., assignor.)
- McAuliffe, J. W., Chicago, Ill. Sanitary seat for water-closets. No. 937,164; Oct. 19; Sp. p. 3252; Gaz. vol. 147; p. 568.
- McBane, W. W. (See Hosack, Geltz, and McBane.)
- McBean, G. B., Chicago, Ill. Coupling. No. 941,031; Nov. 23; Sp. p. 5716; Gaz. vol. 148; p. 964.
- McBee, C. F., Athens, Ohio. Assembly-box for perforating and binding machines. No. 942,180; Dec. 7; Sp. p. 331; Gaz. vol. 149; p. 50.
- McBee, C. F., Athens, Ohio. Binding-machine. No. 943,094; Dec. 14; Sp. p. 2308; Gaz. vol. 149; p. 391.
- McBee, R., Washington, D. C., assignor to Wolverine Brass Works, Grand Rapids, Mich. Bib-seat dresser. No. 919,618; Apr. 27; Sp. p. 5714; Gaz. vol. 141; p. 983.
- McBerty, F. P., assignor to Peerless Electric Company, Warren, Ohio. Oil-ring retainer. No. 928,784; July 20; Sp. p. 4308; Gaz. vol. 144; p. 751.
- McBerty, F. R., New Rochelle, N. Y., assignor to Western Electric Company, Chicago, Ill. Perforated block for electric conductors. No. 920,614; May 4; Sp. p. 1051; Gaz. vol. 142; p. 171.
- McBerty, F. R., New Rochelle, N. Y., assignor to Western Electric Company, Chicago, Ill. Power-transmitting device. No. 922,802; May 25; Sp. p. 5565; Gaz. vol. 142; p. 802.
- McBerty, F. R., New Rochelle, N. Y., assignor to Western Electric Company, Chicago, Ill. Relay. No. 929,319; July 27; Sp. p. 5465; Gaz. vol. 144; p. 359.
- McBerty, F. R., Evanston, Ill., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 938,501; Nov. 2; Sp. p. 117; Gaz. vol. 148; p. 19.
- McBratney, C., Fort Dodge, assignor of one-half to L. Allmon, Ashland, Kans. Meat mangle or tenderer. No. 937,322; Oct. 19; Sp. p. 3579; Gaz. vol. 147; p. 618.
- McBride, C. L., Toledo, Ohio. Glove-stretcher. No. 915,465; Mar. 16; Sp. p. 3725; Gaz. vol. 140; p. 647.
- McBride, C. L., Toledo, Ohio. Glove-stretcher. No. 915,466; Mar. 16; Sp. p. 3727; Gaz. vol. 140; p. 647.
- McBride, T. W., Glen Ewen, Saskatchewan, Canada. Automatic wind-regulator for separating-machines. No. 929,157; July 27; Sp. p. 5081; Gaz. vol. 144; p. 903.
- McBride, W. J., assignor to Hoffman-Corr Manufacturing Company, Philadelphia, Pa. Hammock-suspension device. No. 922,023; May 18; Sp. p. 3984; Gaz. vol. 142; p. 697.
- McBride, W. J., assignor to Hoffman-Corr Manufacturing Company, Philadelphia, Pa. Couch-hammock. No. 937,258; Oct. 19; Sp. p. 5465; Gaz. vol. 147; p. 599.
- McCabe, J. (See Robinson and McCabe.)
- McCabe, J., et al. (See Baker, W., assignor.)
- McCabe, J. D., assignor of one-third to R. L. Mason and one-third to B. Laurence, Woodbury, Tenn. Buggy-shaft support. No. 939,852; Nov. 9; Sp. p. 3082; Gaz. vol. 148; p. 509.
- McCabe, F. J., Washington, Minn. Incubator. No. 926,434; June 29; Sp. p. 6989; Gaz. vol. 143; p. 1231.
- McCabe, W., Canton, Ohio. Curtain-pole. No. 917,105; Apr. 6; Sp. p. 290; Gaz. vol. 141; p. 53.
- McCafferty, A., Elizabeth, assignor of one-half to L. U. Kreps, Glassport, Pa. Rail connection. No. 911,837; Feb. 9; Sp. p. 1587; Gaz. vol. 139; p. 295.
- McCafferty, W. M., Cartersville, Ga. Garter. No. 912,718; Feb. 16; Sp. p. 3540; Gaz. vol. 139; p. 627.
- McCafray, J., Lawrence, Mass. Shaft-collar. No. 918,078; Apr. 13; Sp. p. 2276; Gaz. vol. 141; p. 408.
- McCahan, L. E., Salina, Kans. Shade-bracket. No. 937,842; Oct. 26; Sp. p. 4677; Gaz. vol. 147; p. 810.
- McCain, C. A., Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Cushioning mechanism for reciprocating beds. No. 944,492; Dec. 28; Sp. p. 5296; Gaz. vol. 149; p. 924.
- McCain, W. B., Clearlake, assignor, by mesne assignments, of one-half to H. E. Graham and one-half to R. E. Farlow, Anacortes, Wash. Jack. No. 944,629; Dec. 28; Sp. p. 5606; Gaz. vol. 149; p. 973.
- McCall, D. C., El Paso, Tex. Railway-switch. No. 941,089; Nov. 23; Sp. p. 5830; Gaz. vol. 148; p. 984.
- McCall Company. (See Constantine, M., assignor.)
- McCall, D., Lone, Cal. Stock food. No. 919,059; Apr. 20; Sp. p. 4357; Gaz. vol. 141; p. 761.
- McCall, J. B., et al. (See MacFarland, A. M., assignor.)
- McCall, J. C., Colorado, Tex. Ice-machine. No. 912,873; Feb. 16; Sp. p. 3833; Gaz. vol. 139; p. 675.
- McCall, J. F., Frankford, Pa. Paper box. No. 916,181; Mar. 23; Sp. p. 5144; Gaz. vol. 140; p. 910.
- McCall, J. H. (See Church and McCall.)
- McCall, O. F., and C. L. Taft, Tacoma, Wash. Curtain-hook. No. 939,064; Nov. 2; Sp. p. 1312; Gaz. vol. 148; p. 212.
- McCall, W. T., and D. L. Orendorf, Manhattan, Kans. Stacker. No. 926,587; June 29; Sp. p. 7250; Gaz. vol. 143; p. 1281.
- McCallister, C. A., Marietta, Wash. Nautical instrument. No. 938,780; Nov. 2; Sp. p. 704; Gaz. vol. 148; p. 114.
- McCallum, J. A., and J. R. Bell, Calvin, N. D. Horse-releaser. No. 916,579; Mar. 30; Sp. p. 5952; Gaz. vol. 140; p. 1068.
- McCallum, W. A., Cincinnati, Ohio. Suspending device for trolley-wires. No. 934,562; Sept. 21; Sp. p. 3198; Gaz. vol. 146; p. 557.
- McCallum, W. J., Fond du Lac, Wis. Jar-holder. No. 936,927; Oct. 12; Sp. p. 2753; Gaz. vol. 147; p. 460.
- McCalman, C. S., Mapleton, Iowa. Churn. No. 913,838; Mar. 2; Sp. p. 337; Gaz. vol. 140; p. 57.
- McCalman, C. S., Mapleton, Iowa. Churn. No. 925,015; June 15; Sp. p. 4121; Gaz. vol. 143; p. 701.
- McCampbell, L., Louisville, Ky., assignor to Louisville Filler Company. Bottle-filling machinery. No. 912,252; Feb. 9; Sp. p. 2485; Gaz. vol. 139; p. 428.
- McCandless, S. C., Savannah, Ga., assignor to C. J. Eastman, Los Angeles, Cal. Traction apparatus for field operations. No. 910,217; Jan. 19; Sp. p. 3614; Gaz. vol. 138; p. 657.
- McCann, H. P., Columbus, Ohio. Rotary engine. No. 912,253; Feb. 9; Sp. p. 2487; Gaz. vol. 139; p. 429.
- McCann, J. D., Jr., Oktoc, Miss. Combination-rule. No. 914,359; Mar. 2; Sp. p. 1510; Gaz. vol. 140; p. 233.
- McCann, J. W., Washington, D. C. Amusement device. No. 911,428; Feb. 2; Sp. p. 782; Gaz. vol. 139; p. 136.
- McCann, J. W., Washington, D. C. Stamp-affixing machine. No. 943,952; Dec. 21; Sp. p. 4126; Gaz. vol. 149; p. 715.
- McCann, M., New York, N. Y. Leg or support for tables. No. 930,982; Aug. 10; Sp. p. 2822; Gaz. vol. 145; p. 477.
- McCann, O. (See Huntoon and McCann.)
- McCann, T. E., Miller, Kans. Device for delivering train-orders. No. 914,158; Mar. 2; Sp. p. 1066; Gaz. vol. 140; p. 169.
- McCann, T. T., East Liverpool, Ohio. Insulator-pressing machine. No. 934,930; Sept. 21; Sp. p. 3925; Gaz. vol. 146; p. 681.
- McCanne, A., Springfield, Mo. Window-shade-roller fixture. No. 930,555; Aug. 10; Sp. p. 1917; Gaz. vol. 145; p. 338.
- McCargo, G., et al. (See Craven, J. F., assignor.)
- McCarier, T. P., and H. E. Hanna, Kenyon, R. I. Rail-tie. No. 917,641; Apr. 6; Sp. p. 1322; Gaz. vol. 141; p. 233.
- McCarroll, W. J., Philadelphia, Pa. Chaplet. No. 930,080; Aug. 3; Sp. p. 960; Gaz. vol. 145; p. 156.
- McCarthy, C. A., Hattiesburg, assignor of one-fourth to F. V. B. Price, Carnes, three-eighths to V. R. McDonald, and three-eighths to W. H. Cook, Hattiesburg, Miss. Harrow. No. 930,310; Aug. 3; Sp. p. 1387; Gaz. vol. 145; p. 230.
- McCarthy, C. M., Jersey City, N. J. Car-brake mechanism. No. 932,994; Aug. 31; Sp. p. 7075; Gaz. vol. 145; p. 1217.
- McCarthy, D. J., Wilksburg, assignor to Union Switch & Signal Company, Swissvale, Pa. Block-signaling system. No. 928,396; July 20; Sp. p. 3535; Gaz. vol. 144; p. 625.
- McCarthy, D. J., Wilksburg, assignor to Union Switch & Signal Company, Swissvale, Pa. Frequency-relay. No. 928,531; July 20; Sp. p. 3809; Gaz. vol. 144; p. 667.
- McCarthy, J., et al. (See Prendergast, W. H., assignor.)
- McCarthy, J., Plainfield, N. J., assignor to Quincy, Manchester, Sargent Company, New York, N. Y., and Chicago, Ill. Universal clamp for cold-sawing machines. No. 914,299; Mar. 2; Sp. p. 1369; Gaz. vol. 140; p. 213.
- McCarthy, J. J., Chicago, Ill. Coin-controlled vending-machine. No. 914,444; Mar. 9; Sp. p. 1673; Gaz. vol. 140; p. 286.
- McCarthy, J. J., Newport, Ky. Flat-iron heater. No. 919,060; Apr. 20; Sp. p. 4357; Gaz. vol. 141; p. 761.
- McCarthy, L., Boston, Mass. Hickey. No. 912,594; Feb. 16; Sp. p. 3247; Gaz. vol. 139; p. 582.
- McCarthy, L., assignor to Macallen Company, Boston, Mass. Insulator. No. 922,313; May 18; Sp. p. 4542; Gaz. vol. 142; p. 789.
- McCarthy, L., assignor to Macallen Company, Boston, Mass. Insulator. No. 930,608; Aug. 10; Sp. p. 2028; Gaz. vol. 145; p. 355.
- McCarthy, L., assignor to Macallen Company, Boston, Mass. Manufacturing insulators. No. 941,032; Nov. 23; Sp. p. 5718; Gaz. vol. 148; p. 965.
- McCarthy, L. R., and J. C. Vroman, Spartansburg, Pa. Plunger mechanism for oil-wells. No. 940,347; Nov. 16; Sp. p. 4219; Gaz. vol. 148; p. 711.
- McCarthy, M. F., Chicago, Ill. Pressure-regulator for lamps and the like. No. 921,272; May 11; Sp. p. 2402; Gaz. vol. 142; p. 421.
- McCarthy, T. J. (See Leinau, N., assignor.)
- McCarthy, T. F. (See Moriarty, J. J., assignor.)
- McCarthy, W. B., Milford, Conn. Car-rack. No. 913,228; Feb. 23; Sp. p. 4552; Gaz. vol. 139; p. 818.
- McCarthy, W. M. (See Heyne, Hayward, and McCarthy.)
- McCartin, J., Brooklyn, N. Y. Thermostat-controller. No. 924,095; June 8; Sp. p. 2144; Gaz. vol. 143; p. 358.
- McCartney, J. (See Handley and McCartney.)
- McCarty, C. C., Syracuse, N. Y. Manufacture of concrete walls. No. 915,995; Mar. 23; Sp. p. 4805; Gaz. vol. 140; p. 849.
- McCarty, E. W. (See Flynn, M. J., assignor.)

*Alphabetical list of patentees—Continued.*

- McCarty, E. W. (See Skelton, E., assignor.)  
 McCarty, F., Chicago, Ill. Folding scaffold. No. 909,012; Jan. 5; Sp. p. 1191; Gaz. vol. 138; p. 190.  
 McCarty, H. C. Williamsport, Pa. Safety-valve. No. 910,711; Jan. 26; Sp. p. 4664; Gaz. vol. 138; p. 848.  
 McCarty, H. C., Williamsport, Pa. Safety-valve. No. 944,809; Dec. 28; Sp. p. 5997; Gaz. vol. 149; p. 1032.  
 McCarty, N., assignor to Atlas Engine Works, Indianapolis, Ind. Governed pump. No. 929,000; July 27; Sp. p. 4751; Gaz. vol. 144; p. 851.  
 McCarty, N., assignor to Atlas Engine Works, Indianapolis, Ind. Governed pump. No. 929,100; July 27; Sp. p. 4953; Gaz. vol. 144; p. 883.  
 McCarty, N., assignor to Atlas Engine Works, Indianapolis, Ind. Governed pump. No. 929,101; July 27; Sp. p. 4961; Gaz. vol. 144; p. 883.  
 McCarty, N., assignor to Atlas Engine Works, Indianapolis, Ind. Fuel-pump. No. 929,102; July 27; Sp. p. 4962; Gaz. vol. 144; p. 884.  
 McCarty, N., assignor to Atlas Engine Works, Indianapolis, Ind. Fuel-pump. No. 929,970; Aug. 3; Sp. p. 732; Gaz. vol. 145; p. 117.  
 McCarty, N., assignor to Atlas Engine Works, Indianapolis, Ind. Fuel-feeder for internal-combustion engines. No. 933,325; Sept. 7; Sp. p. 657; Gaz. vol. 146; p. 102.  
 McCarty, N., assignor to Atlas Engine Works, Indianapolis, Ind. Pump. No. 940,703; Nov. 23; Sp. p. 5009; Gaz. vol. 148; p. 855.  
 McCarty, N., assignor to Atlas Engine Works, Indianapolis, Ind. Pump. No. 940,704; Nov. 23; Sp. p. 5011; Gaz. vol. 148; p. 856.  
 McCarty, N., assignor to Atlas Engine Works, Indianapolis, Ind. Governed pump. No. 943,095; Dec. 14; Sp. p. 2311; Gaz. vol. 149; p. 392.  
 McCarty, N., assignor to Atlas Engine Works, Indianapolis, Ind. Governed pump. No. 943,987; Dec. 21; Sp. p. 4210; Gaz. vol. 149; p. 726.  
 McCarty, N., assignor to Atlas Engine Works, Indianapolis, Ind. Pump. No. 943,988; Dec. 21; Sp. p. 4215; Gaz. vol. 149; p. 727.  
 McCarty, W. B., Cale, Ind. Revolver. No. 913,756; Mar. 2; Sp. p. 168; Gaz. vol. 140; p. 28.  
 McCarty, W. C., Birmingham, Ala. Cushioned vehicle-wheel. No. 924,621; June 8; Sp. p. 3283; Gaz. vol. 143; p. 535.  
 McCarty, W. L., Memphis, Tenn. Bale-identifying means. No. 929,691; Aug. 3; Sp. p. 103; Gaz. vol. 145; p. 19.  
 McCarty, W. L., Memphis, Tenn., assignor to Automatic Marking Company, Augusta, Ga. Inking-roller for printing-presses. No. 916,357; Mar. 23; Sp. p. 5460; Gaz. vol. 140; p. 969.  
 McCarty, W. L., Memphis, Tenn., assignor to Automatic Marking Company, Augusta, Ga. Printing device. No. 918,464; Apr. 13; Sp. p. 3043; Gaz. vol. 141; p. 535.  
 McCarty, W. L., Memphis, Tenn., assignor to Automatic Marking Company, Augusta, Ga. Printing-press. No. 918,465; Apr. 13; Sp. p. 3045; Gaz. vol. 141; p. 535.  
 McCaskey, J. A., San Diego, Cal. Shade and curtain pole hanger. No. 923,989; June 8; Sp. p. 1964; Gaz. vol. 143; p. 326.  
 McCaskill, T. L., Albany, Ga. Reversing-gearing. No. 940,889; Nov. 23; Sp. p. 5415; Gaz. vol. 148; p. 917.  
 McCaughey, B., Pawtucket, R. I. Broiler. No. 914,159; Mar. 2; Sp. p. 1068; Gaz. vol. 140; p. 170.  
 McCaughey, B., Pawtucket, R. I. Broiler. No. 915,105; Mar. 16; Sp. p. 3005; Gaz. vol. 140; p. 530.  
 McCauley, A. J., assignor to C. M. Clark, St. Louis, Mo. Car-truck. No. 930,215; Aug. 3; Sp. p. 1221; Gaz. vol. 145; p. 201.  
 McCauley, A. J., St. Louis, Mo., assignor to American Steel Foundries, Chicago, Ill. Car-truck. No. 944,202; Dec. 21; Sp. p. 4649; Gaz. vol. 149; p. 796.  
 McCauley, E. J., Vallejo, Cal. Edge-finisher for collars and cuffs. No. 927,670; July 16; Sp. p. 2020; Gaz. vol. 144; p. 351.  
 McCauley, F. L. (See Elkins, A. F., assignor.)  
 McCauley, J. M., Bear River, Minn. Puzzle. No. 934,203; Sept. 14; Sp. p. 2515; Gaz. vol. 146; p. 414.  
 McCausland, W. I., Flat River, Mo. Photo-smoke arrester. No. 920,370; May 4; Sp. p. 570; Gaz. vol. 142; p. 91.  
 McCay, M., *et al.* (See Smith, J. P., assignor.)  
 McClatchey, J. E., Kenosha, Wis. Bed-bottom. No. 943,442; Dec. 14; Sp. p. 3016; Gaz. vol. 149; p. 509.  
 McClay, D. W., Pittsfield, Mass. Electric iron. No. 928,532; July 20; Sp. p. 3810; Gaz. vol. 144; p. 668.  
 McClay, R. C., Los Angeles, Cal., assignor to Mechanical and Electrical Appliance Company, Carson City, Nev. Headlight. No. 931,953; Aug. 24; Sp. p. 4955; Gaz. vol. 145; p. 849.  
 McChesney, S., New Liskeard, Ontario, Canada. Gate-operating means. No. 911,668; Feb. 9; Sp. p. 1284; Gaz. vol. 139; p. 241.  
 McChord, C. C. (See Harris, W. T., assignor.)  
 McClaren, J. H., West Union, Ohio. Brake-lever. No. 912,595; Feb. 16; Sp. p. 3249; Gaz. vol. 139; p. 583.  
 McClean Arms and Ordnance Company. (See McClean, S. N., assignor.)  
 McClean, S. N., assignor to McClean Arms and Ordnance Company, Cleveland, Ohio. Breech-loading gas-actuated gun. No. 933,098; Sept. 7; Sp. p. 126; Gaz. vol. 146; p. 21.  
 McCleary, W. E., Philadelphia, Pa., assignor to Crompton & Knowles Loom Works. Molding-machine. No. 933,485; Sept. 7; Sp. p. 1077; Gaz. vol. 146; p. 155.  
 McCleary, J. W., assignor to one-half to G. H. Flowers, Rochester, N. Y. Paper and wood-pulp receptacle. No. 925,938; June 22; Sp. p. 5974; Gaz. vol. 143; p. 1032.  
 McClellan, B. S. (See Dies, C. A., assignor.)  
 McClellan, E. J. (See Garvin and McClellan.)  
 McClellan, E. J., New York, N. Y., assignor to Garvin Machine Company. Monitor-lathe spindle and chuck construction. No. 927,424; July 6; Sp. p. 1449; Gaz. vol. 144; p. 241.  
 McClellan, J. A., Menomonee, Wis. Hame connection. No. 931,461; Aug. 17; Sp. p. 3881; Gaz. vol. 145; p. 669.  
 McClelland, J. D., Jr., Mount Vernon, N. Y. Cock or faucet. No. 924,920; June 15; Sp. p. 3917; Gaz. vol. 143; p. 669.  
 McClelland, M. A., Albany, N. Y. Attachment for chairs. No. 936,017; Oct. 5; Sp. p. 880; Gaz. vol. 147; p. 133.  
 McClelland, M. R., Astoria, Ill. Whip-lock. No. 919,061; Apr. 20; Sp. p. 4358; Gaz. vol. 141; p. 761.  
 McClintock, C. D., Oakland, assignor of one-half to S. R. Bogue, San Francisco, Cal. Internal-combustion engine. No. 922,613; May 25; Sp. p. 5183; Gaz. vol. 142; p. 917.  
 McClintock, C. N., Rigdon, Ind. Combination rope and strap halter. No. 923,369; June 1; Sp. p. 595; Gaz. vol. 143; p. 86.  
 McClintock, C. N., Rigdon, Ind. Halter. No. 925,371; June 15; Sp. p. 4778; Gaz. vol. 143; p. 816.  
 McClintock, C. N., Rigdon, Ind. Halter. No. 925,372; June 15; Sp. p. 4779; Gaz. vol. 143; p. 816.  
 McClintock, E., assignor to McClintock Manufacturing Company, St. Paul, Minn. Relay. No. 911,746; Feb. 9; Sp. p. 1426; Gaz. vol. 139; p. 265.  
 McClintock, E., assignor to McClintock Manufacturing Company, St. Paul, Minn. Engineer's alarm. No. 914,445; Mar. 9; Sp. p. 1674; Gaz. vol. 140; p. 286.  
 McClintock, E., assignor to McClintock Manufacturing Company, St. Paul, Minn. Relay. No. 923,874; June 8; Sp. p. 1738; Gaz. vol. 143; p. 289.  
 McClintock, F., Grand Junction, Colo., assignor to Mergenthaler Linotype Company. Type-setting machine. No. 944,493; Dec. 28; Sp. p. 5298; Gaz. vol. 149; p. 924.  
 McClintock, G. W., assignor of one-half to W. J. Killian, Muncie, Ind. Universal coupling. No. 915,690; Mar. 16; Sp. p. 4210; Gaz. vol. 140; p. 726.  
 McClintock, J. J., Jr., *et al.* (See Kennedy, F., assignor.)  
 McClintock, J. J., Jr., *et al.* (See Kennedy, F., assignor.)  
 McClintock, J. L., Clearwater, Kans. Rail-joint. No. 925,939; June 22; Sp. p. 5977; Gaz. vol. 143; p. 1032.  
 McClintock, J. L., Clearwater, Kans. Post-foundation. No. 925,940; June 22; Sp. p. 5979; Gaz. vol. 143; p. 1032.  
 McClintock Manufacturing Company. (See McClintock, E., assignor.)  
 McClintock, R. (See Ecker, E. E., assignor.)  
 McClintock, W., New York, N. Y. Sewage-ejector. No. 911,321; Feb. 2; Sp. p. 592; Gaz. vol. 139; p. 101.  
 McClintock, W. C. (See Stubkjare, Burns, and McClintock.)  
 McClory, G., Paterson, N. J. Sanitary protecting means for water-closet seats. No. 920,371; May 4; Sp. p. 572; Gaz. vol. 142; p. 92.  
 McCloud, C. L. (See Grimes and McCloud.)  
 McCloud, E. H., Columbus, Ohio. Flexible fire-resisting curtain. No. 910,218; Jan. 19; Sp. p. 3616; Gaz. vol. 138; p. 657.  
 McCloud, E. H., Columbus, Ohio. Folding door. No. 924,686; June 15; Sp. p. 3425; Gaz. vol. 143; p. 589.  
 McCloud, E. H., Columbus, Ohio. Flexible fire-resisting shutter and slat therefor. No. 935,125; Sept. 28; Sp. p. 4335; Gaz. vol. 146; p. 773.  
 McCloud, S., Chicago, Ill. Machine for forming bars or rounds from metal plates. No. 909,644; Jan. 12; Sp. p. 2439; Gaz. vol. 138; p. 433.  
 McCloy, W., Cressona, Pa. Railway-tie. No. 908,485; Jan. 5; Sp. p. 103; Gaz. vol. 138; p. 20.  
 McClung, J. I., Oraftonville, Cal. Crate. No. 930,216; Aug. 3; Sp. p. 1222; Gaz. vol. 145; p. 201.  
 McClure, C. F., and W. I. Shuman, Sullivan, Ill. Light-cabinet. No. 940,544; Nov. 16; Sp. p. 4672; Gaz. vol. 148; p. 777.  
 McClure, E., assignor of one-half to F. P. Smith, Chicago, Ill. Grating, screen, screen-door construction, and the like. No. 942,039; Nov. 30; Sp. p. 7850; Gaz. vol. 148; p. 1322.  
 McClure, H. E., Marion, Ind. Flour-bin. No. 943,443; Dec. 14; Sp. p. 3018; Gaz. vol. 149; p. 509.  
 McClure, J. C., Charlotte, N. C. Safety-stirrur. No. 932,886; Aug. 31; Sp. p. 6884; Gaz. vol. 145; p. 1182.  
 McClure, N. C., Healdsburg, Cal. Electric isolation system. No. 927,375; July 6; Sp. p. 1342; Gaz. vol. 144; p. 223.  
 McClure, S., assignor to Malleable Iron Range Company, Beaver Dam, Wis. Heater. No. 929,103; July 27; Sp. p. 4964; Gaz. vol. 144; p. 884.  
 McClure, W. N. (See Storer and McClure.)  
 McCluskey, J., North Bay, Ontario, Canada. Cattle-guard. No. 908,600; Jan. 5; Sp. p. 358; Gaz. vol. 138; p. 58.  
 McCollough, W. A., Burlington, Colo. Rack for feeding-troughs. No. 933,384; Sept. 7; Sp. p. 801; Gaz. vol. 146; p. 124.  
 McCollum, A. O., Reese, Mich. Internal-combustion engine. No. 912,150; Feb. 9; Sp. p. 2290; Gaz. vol. 139; p. 397.  
 McComas, H. W., Oakland, Md. Collapsible crate. No. 931,954; Aug. 24; Sp. p. 4957; Gaz. vol. 145; p. 849.



*Alphabetical list of patentees—Continued.*

- McComb, J. S., Dobbs Ferry, N. Y. Means for securing pages of loose-leaf binders. No. 913,906; Mar. 2; Sp. p. 507; Gaz. vol. 140; p. 82.
- McComb, J. S., Dobbs Ferry, N. Y. Sheet for loose-leaf binders. No. 915,789; Mar. 23; Sp. p. 4412; Gaz. vol. 140; p. 783.
- McComb, J. S., Dobbs Ferry, N. Y. Loose-leaf binder. No. 915,790; Mar. 23; Sp. p. 4414; Gaz. vol. 140; p. 783.
- McComb, J. S., Dobbs Ferry, N. Y. Sectional book and filing case. No. 919,619; Apr. 27; Sp. p. 5716; Gaz. vol. 141; p. 983.
- McComb, J. S., Dobbs Ferry, N. Y. Paper clip or fastener. No. 919,620; Apr. 27; Sp. p. 5718; Gaz. vol. 141; p. 983.
- McComb, J. S., Dobbs Ferry, N. Y. Paper fastener or clip. No. 919,621; Apr. 27; Sp. p. 5719; Gaz. vol. 141; p. 984.
- McComb, J. S., Dobbs Ferry, N. Y. Clip or tie. No. 919,622; Apr. 27; Sp. p. 5721; Gaz. vol. 141; p. 984.
- McComb, J. S., Dobbs Ferry, N. Y. Extensible pillar or post for loose-leaf binders. No. 934,746; Sept. 21; Sp. p. 3557; Gaz. vol. 146; p. 620.
- McComb, J. S., Dobbs Ferry, N. Y. Loose-leaf binder. No. 935,318; Sept. 28; Sp. p. 4714; Gaz. vol. 146; p. 836.
- McComb, J. S., Dobbs Ferry, N. Y. Extensible post for loose-leaf binders. No. 940,705; Nov. 23; Sp. p. 5012; Gaz. vol. 148; p. 856.
- McComb, J. S., Dobbs Ferry, N. Y. Loose-leaf binder. No. 940,706; Nov. 23; Sp. p. 5014; Gaz. vol. 148; p. 856.
- McComb, J. S., Dobbs Ferry, N. Y. Support for loose-leaf binders. No. 940,707; Nov. 23; Sp. p. 5015; Gaz. vol. 148; p. 857.
- McComb, W. (See Shotwell and McComb.)
- McComb, W. N., New York, N. Y. Illuminating device. No. 926,956; July 6; Sp. p. 523; Gaz. vol. 144; p. 85.
- McCombie, T. G. F. G., Monkstown, assignor of one-half to J. B. S. MacIlwaine, county of Dublin, Ireland. Explosive mine or projectile. No. 910,942; Jan. 26; Sp. p. 5116; Gaz. vol. 138; p. 922.
- McCombie, T. G. F. G., Monkstown, assignor of one-half to J. B. S. MacIlwaine, county of Dublin, Ireland. Fuse in connection with explosive mines or projectiles. No. 910,943; Jan. 26; Sp. p. 5121; Gaz. vol. 138; p. 922.
- McCombs, D. E. (See Lamont and McCombs.)
- McConaghy, A. V., *et al.* (See McConaghy, J. G., assignor.)
- McConaghy, J. G., assignor of one-third to W. A. Wilson and one-third to A. V. McConaghy, Washington, D. C. Toy. No. 937,323; Oct. 19; Sp. p. 3580; Gaz. vol. 147; p. 619.
- McConaghy, H., assignor of one-half to G. R. Barker, Cleveland, Ohio. Railway-tie and fastening therefor. No. 932,409; Aug. 24; Sp. p. 5860; Gaz. vol. 145; p. 1000.
- McConaghy, D., *et al.* (See Baker, O. O., assignor.)
- McConaughy, T. L., Hagerstown, Ind. Vehicle-wheel hub. No. 920,984; May 11; Sp. p. 1811; Gaz. vol. 142; p. 322.
- McConnell, F. M. (See Sparks, H. L., assignor.)
- McConnell, F. W. (See McConnell, J. E. and F. W.)
- McConnell, H. H., *et al.* (See McConnell, H. I., assignor.)
- McConnell, H. I., assignor of one-fourth to P. H. Snook, Jr., and one-fourth to H. H. McConnell, Atlanta, Ga. Cotton-picking machine. No. 924,181; June 8; Sp. p. 2369; Gaz. vol. 143; p. 388.
- McConnell, J. E. and F. W., Paxton, Nebr. Separable fastener. No. 936,148; Oct. 5; Sp. p. 1155; Gaz. vol. 147; p. 175.
- McConnell, P. H., Syracuse, assignor of one-tenth to L. Bergen, New York, N. Y. Air-ship. No. 925,494; June 22; Sp. p. 5019; Gaz. vol. 143; p. 886.
- McConnell, S., and J. E. Wilson, Belfast, Ireland. Machine for use in manufacture of plain bread, &c. No. 943,364; Dec. 14; Sp. p. 2865; Gaz. vol. 149; p. 482.
- McConney, R. B., *et al.* (See Colcord, A. B., assignor.)
- McConville, E. (See Berkhouse, McConville, and Patrick.)
- McConville, P., Cœur d'Alene, Idaho. Fruit-picker. No. 925,212; June 15; Sp. p. 4496; Gaz. vol. 143; p. 768.
- McConway & Torley Company. (See Buhoup, H. C., assignor.)
- McConway & Torley Company. (See Kelso, J., assignor.)
- McConway & Torley Company. (See Matthews, W. R., assignor.)
- McConway & Torley Company. (See McConway and Kelso, assignors.)
- McConway, W., Pittsburg, Pa. Car-wheel. No. 929,320; July 27; Sp. p. 5466; Gaz. vol. 144; p. 959.
- McConway, W., Pittsburg, Pa. Car-wheel. No. 929,321; July 27; Sp. p. 5468; Gaz. vol. 144; p. 959.
- McConway, W., Jr., and J. Kelso, assignors to McConway & Torley Company, Pittsburg, Pa. Car-coupling. No. 913,229; Feb. 23; Sp. p. 4553; Gaz. vol. 139; p. 818.
- McConway, W., Jr., and J. Kelso, assignors to McConway & Torley Company, Pittsburg, Pa. Car-coupling. No. 913,230; Feb. 23; Sp. p. 4560; Gaz. vol. 139; p. 818.
- McCool, H. G., Carmichaels, Pa. Type-writing machine. No. 943,444; Dec. 14; Sp. p. 3020; Gaz. vol. 149; p. 510.
- McCord & Company. (See Miller, D., assignor.)
- McCord, J. H., Pierre, S. D. Match-box. No. 915,206; Mar. 16; Sp. p. 3228; Gaz. vol. 140; p. 564.
- McCord, L. A., Laurens, S. C. Reed-organ. No. 939,065; Nov. 2; Sp. p. 1313; Gaz. vol. 148; p. 212.
- McCord, W. W., G. F. Clark, and P. M. Hall, Seattle, Wash. Sealing composition for vehicle-tires. No. 918,189; Apr. 13; Sp. p. 2484; Gaz. vol. 141; p. 444.
- McCorkle, H. (See Ledterman, J. E., assignor.)
- McCorkle, S. M. (See Ritter and McCorkle.)
- McCormack, G. A., South Boston, assignor to United States Fastener Company, Boston, Mass. Snap-fastener. No. 933,194; Sept. 7; Sp. p. 352; Gaz. vol. 146; p. 56.
- McCormack, H. S., New Rochelle, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 914,062; Mar. 2; Sp. p. 876; Gaz. vol. 140; p. 136.
- McCormack, H. S., New Rochelle, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 915,875; Mar. 23; Sp. p. 4567; Gaz. vol. 140; p. 811.
- McCormack, H. S., New Rochelle, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 921,620; May 11; Sp. p. 3137; Gaz. vol. 142; p. 536.
- McCormack, H. S., New Rochelle, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 929,158; July 27; Sp. p. 5084; Gaz. vol. 144; p. 903.
- McCormack, H. S., New Rochelle, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 943,445; Dec. 14; Sp. p. 3029; Gaz. vol. 149; p. 510.
- McCormack, H. S., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 921,619; May 11; Sp. p. 3133; Gaz. vol. 142; p. 536.
- McCormack, H. S., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 928,876; July 20; Sp. p. 4494; Gaz. vol. 144; p. 783.
- McCormack, P. H., New York, N. Y. Automatic switch for light and power circuits and the like. No. 918,489; Apr. 13; Sp. p. 3102; Gaz. vol. 141; p. 543.
- McCormick, A. M., and W. W. Kridler, Columbiana, Ohio. Burial case or vault. No. 916,182; Mar. 23; Sp. p. 5145; Gaz. vol. 140; p. 910.
- McCormick, C., St. Louis, Mo., assignor to Meramec Portland Cement & Material Company, Phoenix, Ariz. Ter. Waterproof Portland cement and making same. No. 931,884; Aug. 24; Sp. p. 4775; Gaz. vol. 145; p. 826.
- McCormick, C. M., La Junta, Colo. Harvester. No. 913,421; Feb. 23; Sp. p. 4939; Gaz. vol. 139; p. 884.
- McCormick, C. M., La Junta, Colo. Harvester. No. 913,422; Feb. 23; Sp. p. 4941; Gaz. vol. 139; p. 884.
- McCormick, H. M., Detroit, Mich., assignor to American Corset Stay Company, Phoenix, Ariz. Ter. Corset-stay stiffener. No. 930,217; Aug. 3; Sp. p. 1223; Gaz. vol. 145; p. 201.
- McCormick, J. A., and E. E. Thrasher, Cumberland, Md. Railroad-tie. No. 925,825; June 22; Sp. p. 5746; Gaz. vol. 143; p. 995.
- McCormick, J. L., Los Angeles, Cal. Slicing-machine. No. 927,747; July 13; Sp. p. 2165; Gaz. vol. 144; p. 375.
- McCormick, J. S., deceased, West Millgrove, Ohio; S. Yates, administratrix. Revolving safe. No. 941,940; Nov. 30; Sp. p. 7667; Gaz. vol. 148; p. 1291.
- McCormick, R. P., Granite, Md. Excavator. No. 922,314; May 18; Sp. p. 4544; Gaz. vol. 142; p. 790.
- McCormick, W. (See Killius, A. C., assignor.)
- McCormack, H., assignor to Sharples Separator Company, West Chester, Pa. Spring-coiling mechanism. No. 923,563; June 1; Sp. p. 1006; Gaz. vol. 143; p. 154.
- McCorry, L. G., Carbon Center, Pa. Valve. No. 935,044; Sept. 28; Sp. p. 4159; Gaz. vol. 146; p. 745.
- McCoubrie, L. A., and C. F. Raydure, Philadelphia, Pa. Electric motor. No. 943,155; Dec. 14; Sp. p. 2430; Gaz. vol. 149; p. 413.
- McCoy, B. C., Pontiac, Mich. Planting-machine. No. 922,940; May 25; Sp. p. 5876; Gaz. vol. 142; p. 1024.
- McCoy, E., Carthage, Mo. Steam canning apparatus. No. 926,588; June 29; Sp. p. 7254; Gaz. vol. 143; p. 1282.
- McCoy, E., Detroit, assignor to Ypsilanti Lubricator Company, Ypsilanti, Mich. Lubricator. No. 911,669; Feb. 9; Sp. p. 1287; Gaz. vol. 139; p. 241.
- McCoy, H. E., Vandergrift, Pa. Combined curtain-pole support and curtain-shade-roller bracket. No. 932,308; Aug. 24; Sp. p. 5672; Gaz. vol. 145; p. 968.
- McCoy, J. H., Aberdeen, S. D. Planter. No. 929,971; Aug. 3; Sp. p. 734; Gaz. vol. 145; p. 118.
- McCoy, J. H., Harrisville, Pa. Silo. No. 942,340; Dec. 7; Sp. p. 658; Gaz. vol. 149; p. 105.
- McCoy, J. H., Harrisville, Pa. Apparatus for building hollow concrete structures. No. 942,402; Dec. 7; Sp. p. 775; Gaz. vol. 149; p. 125.

*Alphabetical list of patentees—Continued.*

- McCoy, J. H., Harrisville, Pa. Apparatus for distributing building material. No. 942,403; Dec. 7; Sp. p. 777; Gaz. vol. 149; p. 126.
- McCoy, M. C., Walla Walla, Wash. Nut-lock. No. 910,712; Jan. 26; Sp. p. 4667; Gaz. vol. 138; p. 848.
- McCoy, M. H., assignor of one-half to S. Kirker, Coshocton, Ohio. Automatic railway-gate. No. 916,580; Mar. 30; Sp. p. 5953; Gaz. vol. 140; p. 1068.
- McCoy, M. H., assignor of one-half to W. H. Dean, Coshocton, Ohio. Nut-lock. No. 940,267; Nov. 16; Sp. p. 4019; Gaz. vol. 148; p. 684.
- McCoy, R. M., Terre Haute, Ind. Fire-door lock. No. 928,142; July 13; Sp. p. 2963; Gaz. vol. 144; p. 507.
- McCoy, W. E. (See Sprong and McCoy.)
- McCoy, W. E. (See Swallow and McCoy.)
- McCracken, W. F., and J. G. Bradford, Anadarko, Okla. Lace-cabinet. No. 944,687; Dec. 28; Sp. p. 5712; Gaz. vol. 149; p. 991.
- McCracken, W. J., Paullina, assignor of one-half to W. Fraser, Sutherland, Iowa. Tile-making machine. No. 936,928; Oct. 12; Sp. p. 2754; Gaz. vol. 147; p. 460.
- McCrary, J. W., *et al.* (See Mitchell, C. B., assignor.)
- McCrary, T. W., *et al.* (See Purdy, H. E., assignor.)
- McCraw, J. A., Nathalie, Va. Mail-pouch. No. 919,745; Apr. 27; Sp. p. 5964; Gaz. vol. 141; p. 1024.
- McCready, J. E. (See Cuning, H., assignor.)
- McCready, W. C., St. Louis, Mo. Window-cabinet. No. 910,012; Jan. 19; Sp. p. 3187; Gaz. vol. 138; p. 588.
- McCreary, A. T., Forty Fort, Pa. Machine for forming calks on horseshoes. No. 937,461; Oct. 19; Sp. p. 3910; Gaz. vol. 147; p. 665.
- McCreary, S. (See Harrison, H. O., assignor.)
- McCreary, T. W., deceased, Toledo, Ohio; S. H. Willis, administrator. Copy holder and marker for type-writers. No. 912,596; Feb. 16; Sp. p. 3252; Gaz. vol. 139; p. 583.
- McCreery, C. T., Vancouver, British Columbia, Canada. Sugar-bowl. No. 939,066; Nov. 2; Sp. p. 1315; Gaz. vol. 148; p. 213.
- McCreery Engineering Company. (See Taylor, W. E., assignor.)
- McCreery, J. O., Fort Morgan, Colo. Hay-retaining device for hay-stackers. No. 934,827; Sept. 21; Sp. p. 3725; Gaz. vol. 146; p. 647.
- McCrosky, F. B. (See Carpenter, Rasmussen, and McCrosky.)
- McCrum-Howell Company. (See Blackham, G. J., assignor.)
- McCulley, A. F., Frisco, Utah. Paper-roll attachment for type-writers. No. 938,885; Nov. 2; Sp. p. 943; Gaz. vol. 148; p. 149.
- McCulloch, F. L., assignor to L. MacDonell, Tampa, Fla. Machine for making bolts. No. 921,558; May 11; Sp. p. 2997; Gaz. vol. 142; p. 515.
- McCulloch, G., East St. Louis, Ill., assignor to Aluminum Company of America, Niagara Falls, N. Y. Manufacture of alumina. No. 938,269; Oct. 26; Sp. p. 5585; Gaz. vol. 147; p. 955.
- McCulloch, G., East St. Louis, Ill., assignor to Aluminum Company of America, Niagara Falls, N. Y. Manufacture of alumina. No. 941,799; Nov. 30; Sp. p. 7364; Gaz. vol. 148; p. 1241.
- McCulloch, H. G., assignor to Stover Manufacturing Company, Freeport, Ill. Grinder. No. 909,316; Jan. 12; Sp. p. 1808; Gaz. vol. 138; p. 324.
- McCulloch, J. A., *et al.* (See Baum, J. B., assignor.)
- McCulloch, R. W., trustee. (See Beatty, W. A., assignor.)
- McCullough, D. R., Pocatello, Idaho. Dynamo-ventilator. No. 919,203; Apr. 20; Sp. p. 4624; Gaz. vol. 141; p. 807.
- McCullough, E., assignor to Northwestern Expanded Metal Company, Chicago, Ill. Reinforced concrete structure. No. 934,089; Sept. 14; Sp. p. 2285; Gaz. vol. 146; p. 375.
- McCullough, H. C., New Castle, Pa. Steady-rest. No. 944,630; Dec. 28; Sp. p. 5608; Gaz. vol. 149; p. 973.
- McCullough, P. E., assignor to Draper Company, Hopedale, Mass. Bobbin-clutching means for rotatable spindles. No. 916,358; Mar. 23; Sp. p. 5462; Gaz. vol. 140; p. 969.
- McCullough, S. A., assignor of one-fourth to A. H. Miller, Fallston, and one-fourth to J. R. Miner, Ambridge, Pa. Wire reel and bundle remover. No. 943,701; Dec. 21; Sp. p. 3606; Gaz. vol. 149; p. 627.
- McCullough, T., Kansas City, Mo. Artificial tooth. No. 917,886; Apr. 13; Sp. p. 1863; Gaz. vol. 141; p. 340.
- McCullough, T. J., Ashland, Ky. Plate-machine. No. 925,213; June 15; Sp. p. 4497; Gaz. vol. 143; p. 768.
- McCullough, W. L. (See Good and McCullough.)
- McCune, M., and J. F. Meloun, Cleveland, Ohio. Pneumatic drill. No. 933,326; Sept. 7; Sp. p. 663; Gaz. vol. 146; p. 102.
- McCunn, M. C., Indiana, Pa. Sole and heel plate. No. 917,476; Apr. 6; Sp. p. 1023; Gaz. vol. 141; p. 178.
- McCurd, W. A., North Finchley, England. Flying-machine. No. 924,813; June 15; Sp. p. 3695; Gaz. vol. 143; p. 633.
- McCurdy, E. (See Robison, J. A., assignor.)
- McCurdy, E. E., *et al.* (See Crannell, C. W., assignor.)
- McCurdy, O. S., Wilkinsburg, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Brake-shoe adjuster. No. 931,212; Aug. 17; Sp. p. 3360; Gaz. vol. 145; p. 584.
- McCurdy, O. S., Wilkinsburg, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Brake-shoe adjuster. No. 935,804; Oct. 5; Sp. p. 421; Gaz. vol. 147; p. 62.
- McCurdy, W. H., York, Pa., assignor to E. W. Loucks. Sound-reproducing instrument. No. 909,645; Jan. 12; Sp. p. 2441; Gaz. vol. 138; p. 433.
- McCurdy, W. O., Barham, La. Pump. No. 916,760; Mar. 30; Sp. p. 6271; Gaz. vol. 140; p. 1122.
- McCutchan, A. H., Helena, Okla. Bolting-machine. No. 908,486; Jan. 5; Sp. p. 104; Gaz. vol. 138; p. 20.
- McCutchan, A. H., assignor to Helena Manufacturing Company, Helena, Okla. Nut-feeding attachment for bolting-machines. No. 944,374; Dec. 28; Sp. p. 5021; Gaz. vol. 149; p. 883.
- McCutchan, J. W. (See Parton, A. J., assignor.)
- McCutchen, E. J., Mexico, Mexico. Air-pump. No. 930,781; Aug. 10; Sp. p. 2378; Gaz. vol. 145; p. 411.
- McCutchen, E. W., Portsmouth, N. H. Station or street indicator. No. 911,059; Feb. 2; Sp. p. 74; Gaz. vol. 139; p. 14.
- McCutcheon, C. H., Buffalo, N. Y. Steam-valve. No. 915,467; Mar. 16; Sp. p. 3728; Gaz. vol. 140; p. 647.
- McCutcheon, J. S., *et al.* (See Smith, J. P., assignor.)
- McDade, A. J. (See Mahon, E. C., assignor.)
- McDade, A. R., Verona, Pa. Tie for rails and beams. No. 914,446; Mar. 9; Sp. p. 1678; Gaz. vol. 140; p. 287.
- McDaniel, C. W., Portsmouth, N. H., assignor of one-third to E. B. Cole, U. S. Marine Corps. Socket-wrench. No. 920,372; May 4; Sp. p. 573; Gaz. vol. 142; p. 92.
- McDaniel, H. A., Lebanon, Ind. Clamp for the frames of eyeglasses. No. 925,214; June 15; Sp. p. 4508; Gaz. vol. 143; p. 769.
- McDaniel, J. E., Madison Mills, Ohio. Governor attachment. No. 910,409; Jan. 19; Sp. p. 4047; Gaz. vol. 138; p. 725.
- McDaniel, J. H., Atlanta, Ga. Valve. No. 932,887; Aug. 31; Sp. p. 6885; Gaz. vol. 145; p. 1182.
- McDaniel, L., Newark, Mo. Marker-lifter for planters. No. 912,484; Feb. 16; Sp. p. 3007; Gaz. vol. 139; p. 544.
- McDaniel, T. J., assignor of one-half to E. M. Henley, Duke, N. C. Thin-plate detector. No. 916,955; Mar. 30; Sp. p. 6662; Gaz. vol. 140; p. 1187.
- McDaniel, W. P., Omaha, Nebr. Air-valve for radiators. No. 920,373; May 4; Sp. p. 575; Gaz. vol. 142; p. 92.
- McDavitt, S. L. (See Gash and McDavitt.)
- McDermont, S. B., and H. C. Mory, Dayton, Ohio. Cuspidor. No. 937,843; Oct. 26; Sp. p. 4678; Gaz. vol. 147; p. 810.
- McDermott, J., Toledo, Ohio. Conveyor and leer-charging device. No. 922,941; May 25; Sp. p. 5879; Gaz. vol. 142; p. 1024.
- McDermott, J., and J. Yanick, Jr., Spearfish, S. D. Sickle-bar attachment. No. 911,322; Feb. 2; Sp. p. 596; Gaz. vol. 139; p. 101.
- McDermott, J. J., Clifton Heights, Pa. Passenger-registering apparatus for cars. No. 916,359; Mar. 23; Sp. p. 5464; Gaz. vol. 140; p. 970.
- McDermott, T. F. (See Carpenter and McDermott.)
- McDermott, W. E., assignor of one-half to F. A. Spychalski, Chicago, Ill. Trunk. No. 935,221; Sept. 28; Sp. p. 4517; Gaz. vol. 146; p. 804.
- McDevitt, F. H., Easthampton, Mass., and A. Walton, Charlotte, N. C., assignors of one-third to G. A. Ayer, Easthampton, Mass. Speed-changing device for spinning-machines. No. 941,645; Nov. 30; Sp. p. 7022; Gaz. vol. 148; p. 1188.
- McDevitt, P. J. (See Conolly, J., assignor.)
- McDole, J. F. (See Thompson, F. M., assignor.)
- McDonald, A., *et al.* (See Jeffery, R. B., assignor.)
- McDonald, A., Detroit, Mich. Rotary engine. No. 925,127; June 15; Sp. p. 4332; Gaz. vol. 143; p. 739.
- McDonald, A., P. A. Anderson, and J. O'Riley, Havre, Mont. Ditching-machine. No. 911,747; Feb. 9; Sp. p. 1429; Gaz. vol. 139; p. 266.
- McDonald, B. E. (See McGerry, M., assignor.)
- McDonald, B. H., Chicago, Ill. Telescoping holder for matches. No. 930,406; Aug. 10; Sp. p. 1581; Gaz. vol. 145; p. 286.
- McDonald, C., *et al.* (See Huck, W., assignor.)
- McDonald, C. B., assignor to McDonald Machine Company, Chicago, Ill. Can-testing machine. No. 938,165; Oct. 26; Sp. p. 5377; Gaz. vol. 147; p. 918.
- McDonald, D., Louisville, Ky. Apparatus for handling coke. No. 942,341; Dec. 7; Sp. p. 659; Gaz. vol. 149; p. 105.
- McDonald, D. W., Westville, Nova Scotia, assignor to W. H. Johnston, New Glasgow, Canada. Adjustable elbow-pattern. No. 923,875; June 8; Sp. p. 1741; Gaz. vol. 143; p. 290.
- McDonald, E. D., Los Angeles, Cal. Railway construction. No. 943,198; Dec. 14; Sp. p. 2509; Gaz. vol. 149; p. 426.



*Alphabetical list of patentees—Continued.*

- McDonald, F. B., El Dorado, assignor of two-thirds to A. Jackson and C. A. Hare, Bakersfield, Cal. Nut-lock. No. 920,374; May 4; Sp. p. 577; Gaz. vol. 142; p. 93.
- McDonald, H. A., assignor to Larned, Carter & Company, Detroit, Mich. Garment. No. 933,099; Sept. 7; Sp. p. 133; Gaz. vol. 146; p. 22.
- McDonald, H. M., Indianapolis, Ind. Combination-lock. No. 911,150; Feb. 2; Sp. p. 255; Gaz. vol. 139; p. 44.
- McDonald, J., North Sydney, Nova Scotia, Canada. Vegetable-strainer. No. 944,144; Dec. 21; Sp. p. 4537; Gaz. vol. 149; p. 779.
- McDonald, J. B. (See Bryant and McDonald.)
- McDonald, J. H., and C. A. Hopson, assignors to A. B. C. Candy Company, Sherman, Tex. Sugared nut-candy. No. 931,137; Aug. 17; Sp. p. 3192; Gaz. vol. 145; p. 557.
- McDonald, J. I., Chicago, Ill. Holder and separator for storing and separating printers' materials. No. 919,916; Apr. 27; Sp. p. 6336; Gaz. vol. 141; p. 1082.
- McDonald, J. I., St. Joseph, Mo. Facing-strip for garments. No. 934,204; Sept. 14; Sp. p. 2516; Gaz. vol. 146; p. 415.
- McDonald, J. J., *et al.* (See Auble, J. H., assignor.)
- McDonald, J. L., Colona, Pa. Heating-furnace. No. 909,926; Jan. 19; Sp. p. 3023; Gaz. vol. 138; p. 559.
- McDonald, L. D., Atlanta, Ga. Life-preserver. No. 916,761; Mar. 30; Sp. p. 6272; Gaz. vol. 140; p. 1122.
- McDonald Machine Company. (See McDonald, C. B., assignor.)
- McDonald, R. D., De Land, Fla. Plumber's clamp. No. 914,743; Mar. 9; Sp. p. 2303; Gaz. vol. 140; p. 385.
- McDonald, V. R., *et al.* (See McCarthy, C. A., assignor.)
- McDonald, W. (See Slaughter, G. W., Jr., assignor.)
- McDonald, W. A., Grampian, Pa. Switch for incandescent-lamp sockets. No. 941,941; Nov. 30; Sp. p. 7669; Gaz. vol. 148; p. 1291.
- McDonald, W. L. (See Jones, Brown, Fleming, and McDonald.)
- McDonald, W. T. (See Sasser and McDonald.)
- McDonnell, D. F., Mineral, Wash. Nut-lock. No. 936,929; Oct. 12; Sp. p. 2756; Gaz. vol. 147; p. 460.
- McDonnell, H. E. (See McDonnell, M. E. and H. E.)
- McDonnell, H. E., Leominster, Mass. Electric controlling and signaling system for railways. No. 909,201; Jan. 12; Sp. p. 1588; Gaz. vol. 138; p. 286.
- McDonnell, H. E., Leominster, Mass. Electric controlling and signaling system for railways. No. 939,154; Nov. 2; Sp. p. 1509; Gaz. vol. 148; p. 244.
- McDonnell, M. E. and H. E., Leominster, Mass. Horn article. No. 932,888; Aug. 31; Sp. p. 6886; Gaz. vol. 145; p. 1182.
- McDonough, A. J. (See Hodgson, W. D., assignor.)
- McDonough, F. T., Eau Claire, Wis. Adjustable band-saw guide. No. 924,622; June 8; Sp. p. 3283; Gaz. vol. 143; p. 535.
- McDonough, F. T., Eau Claire, Wis. Tension device for band-saws. No. 928,211; July 13; Sp. p. 3118; Gaz. vol. 144; p. 531.
- McDonough, F. T., Eau Claire, Wis. Horizontal band resawing-machine. No. 935,805; Oct. 5; Sp. p. 422; Gaz. vol. 147; p. 62.
- McDonough, F. T., Eau Claire, Wis. Feed-roll. No. 936,250; Oct. 5; Sp. p. 1336; Gaz. vol. 147; p. 205.
- McDonough, F. T., Eau Claire, Wis. Tail-guide for band-saws. No. 936,251; Oct. 5; Sp. p. 1338; Gaz. vol. 147; p. 206.
- McDonough, M. T., Beckley, W. Va. Mine-ventilator. No. 938,781; Nov. 2; Sp. p. 706; Gaz. vol. 148; p. 114.
- McDonough, R. N. and J. M. Conway, Fossil, Ala. Gas-generator. No. 926,889; July 6; Sp. p. 384; Gaz. vol. 144; p. 62.
- McDowell, G. H. (See O'Leary, J., assignor.)
- McDowell, J. A. (See Scott, S. J., assignor.)
- McDowell, J. G., Pittsburg, Pa. Reciprocating motor. No. 914,744; Mar. 9; Sp. p. 2304; Gaz. vol. 140; p. 385.
- McDowell, J. G., Pittsburg, Pa. Hydraulic motor. No. 914,745; Mar. 9; Sp. p. 2306; Gaz. vol. 140; p. 386.
- McDowell Manufacturing Company. (See Hartman, H. B., assignor.)
- McDowell, O. C. (See McDowell, T. E. and O. C.)
- McDowell, T. E. and O. C., Gothenburg, Nebr. Hay and shock loader. No. 930,556; Aug. 10; Sp. p. 1918; Gaz. vol. 145; p. 338.
- McDowell, W. T., St. Louis, Mo. Match-receptacle. No. 918,079; Apr. 13; Sp. p. 2277; Gaz. vol. 141; p. 409.
- McDuffee, E. J., Lynn, Mass., assignor to General Electric Company. Electrically-driven fan or blower. No. 919,623; Apr. 27; Sp. p. 5723; Gaz. vol. 141; p. 984.
- McDuffee, H. L., Gilroy, Cal. Wheel-tire. No. 943,446; Dec. 14; Sp. p. 3041; Gaz. vol. 149; p. 511.
- McDuffee, C. J., Hugo, N. C. Measuring and sacking device. No. 919,917; Apr. 27; Sp. p. 6338; Gaz. vol. 141; p. 1083.
- McEachern, R. A., Barton, Ohio. Cabinet for the sacristy. No. 931,462; Aug. 17; Sp. p. 3884; Gaz. vol. 145; p. 670.
- McEachern, D., Argyle, Ontario, Canada. Tooth-brush. No. 914,501; Mar. 9; Sp. p. 1779; Gaz. vol. 140; p. 305.
- McEachern, T., Minneapolis, Minn. Washing-machine. No. 930,680; Aug. 10; Sp. p. 2165; Gaz. vol. 145; p. 378.
- McHatrik, S., Princeton, Ky. Metal railway-tie. No. 912,151; Feb. 9; Sp. p. 2293; Gaz. vol. 139; p. 397.
- McHefresh, F. P., Shelby county, Iowa. Boat-propeller. No. 943,839; Dec. 21; Sp. p. 3883; Gaz. vol. 149; p. 676.
- McElney, W. A., Meriden, assignor of one-half to J. L. Coit, Waterford, Conn. Cheese-cutter. No. 908,878; Jan. 5; Sp. p. 923; Gaz. vol. 138; p. 147.
- McElroy, G. W., New York, N. Y. Wrench. No. 930,983; Aug. 10; Sp. p. 2823; Gaz. vol. 145; p. 477.
- McElroy, J. F., Cedar Rapids, Iowa. Cement fence-post. No. 937,711; Oct. 19; Sp. p. 4400; Gaz. vol. 147; p. 747.
- McElroy, J. F., Albany, N. Y., assignor to Consolidated Car Heating Company. Brush-holder. No. 912,974; Feb. 16; Sp. p. 4029; Gaz. vol. 139; p. 707.
- McElroy, J. F., assignor to Consolidated Car Heating Company, Albany, N. Y. Door-operating device. No. 917,642; Apr. 6; Sp. p. 1323; Gaz. vol. 141; p. 233.
- McElroy, J. F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Protective conduit-holder for electrical connections. No. 923,686; June 1; Sp. p. 1262; Gaz. vol. 143; p. 196.
- McElroy, J. F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Car-heater. No. 942,040; Nov. 30; Sp. p. 7852; Gaz. vol. 148; p. 1323.
- McElroy, J. H. (See Barrett and Alter, assignors.)
- McElroy, J. H. (See Benke, C. A., assignor.)
- McElroy, J. H., *et al.* (See Horstmann, H. C., assignor.)
- McElroy, J. H., Rossville, Ill. Voting-machine. No. 909,104; Jan. 5; Sp. p. 1378; Gaz. vol. 138; p. 221.
- McElroy, J. H., Rossville, Ill. Voting-machine. No. 909,105; Jan. 5; Sp. p. 1388; Gaz. vol. 138; p. 221.
- McElroy, J. H., Chicago, Ill. Voting-machine. No. 941,800; Nov. 30; Sp. p. 7365; Gaz. vol. 148; p. 1242.
- McElroy, J. H., Chicago, Ill. Interlocking mechanism for voting-machines. No. 941,801; Nov. 30; Sp. p. 7373; Gaz. vol. 148; p. 1242.
- McElroy, J. H., Chicago, Ill. Voting-machine. No. 941,802; Nov. 30; Sp. p. 7379; Gaz. vol. 148; p. 1242.
- McElroy, J. H., Chicago, Ill. Voting-machine. No. 944,688; Dec. 28; Sp. p. 5716; Gaz. vol. 149; p. 992.
- McElroy, J. H., Chicago, Ill. Voting-machine. No. 944,743; Dec. 28; Sp. p. 5852; Gaz. vol. 149; p. 1010.
- McElroy, K. P. (See Ellis and McElroy.)
- McElroy, K. P., Washington, D. C., and C. Ellis, New York, N. Y., assignors to Fireproof Products Company. Fireproof fiber and making same. No. 914,300; Mar. 2; Sp. p. 1372; Gaz. vol. 140; p. 213.
- McElroy, M. F., Providence, R. I. Water-closet. No. 934,455; Sept. 21; Sp. p. 3003; Gaz. vol. 146; p. 523.
- McElroy, P. J., Cambridge, assignor of one-half to Randall-Falchney Company, Boston, Mass. Syringe. No. 919,918; Apr. 27; Sp. p. 6340; Gaz. vol. 141; p. 1083.
- McElroy, W. J. (See Liberty and McElroy.)
- McElvain, A. L., Elmo, Mo. Adjustable flue-collar and pipe-supporter. No. 931,213; Aug. 17; Sp. p. 3362; Gaz. vol. 145; p. 584.
- McElwee, B. F., Dunmore, W. Va. Cutter-bar. No. 909,646; Jan. 12; Sp. p. 2444; Gaz. vol. 138; p. 434.
- McEntee. (See Carney and McEntee.)
- McEntee, J., Tipton, Ind. Plow. No. 927,269; July 6; Sp. p. 1169; Gaz. vol. 144; p. 191.
- McEntire, G. P. and R. N., Topeka, Kans. Porch-swing. No. 909,317; Jan. 12; Sp. p. 1810; Gaz. vol. 138; p. 324.
- McEntire, J. F., *et al.* (See Cooper, W. M., assignor.)
- McEntire, R. N. (See McEntire, G. P. and R. N.)
- McEntire, W. A., *et al.* (See Cooper, W. M., assignor.)
- McEvoy, M., Neola, Iowa. Four-horse doubletree. No. 939,534; Nov. 9; Sp. p. 2400; Gaz. vol. 148; p. 398.
- McEwan, F. J., Chicago, Ill. Fish-trap. No. 928,143; July 13; Sp. p. 2964; Gaz. vol. 144; p. 507.
- McEwan, F. H., Windsor, Ontario, Canada. Locking mechanism for emergency exit-doors. No. 920,375; May 4; Sp. p. 578; Gaz. vol. 142; p. 93.
- McEwen, F. E. (See Palmer, H. R., assignor.) (Reissue.)
- McFadden, C. E., near Fullerton, Cal. Fumigating apparatus. No. 916,762; Mar. 30; Sp. p. 6273; Gaz. vol. 140; p. 1122.
- McFaddin, W. P. H., *et al.* (See Janes and Lanauz, assignors.)
- McFall, J. W., and L. C. Griess, Evansville, Ind. Permutation hasp-lock. No. 919,624; Apr. 27; Sp. p. 5724; Gaz. vol. 141; p. 985.
- McFarland, B. (See Mock, C. H., assignor.)
- McFarland, C. N., Kingston, Pa., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 911,060; Feb. 2; Sp. p. 75; Gaz. vol. 139; p. 14.
- McFarland, C. N., Dorranceton, assignor to Adder Machine Company, Kingston, Pa. Adding-machine. No. 924,264; June 8; Sp. p. 2560; Gaz. vol. 143; p. 417.

*Alphabetical list of patentees—Continued.*

- McFarland, C. N., Dorranceton, assignor to Adder Machine Company, Kingston, Pa. Adding-machine. No. 940,709; Nov. 23; Sp. p. 5022; Gaz. vol. 148; p. 857.
- McFarland, C. N., assignor to Adder Machine Company, Kingston, Pa. Keyboard-locking mechanism for adding-machines. No. 940,708; Nov. 23; Sp. p. 5017; Gaz. vol. 148; p. 857.
- McFarland, O. L., assignor of one-fourth to J. V. McFarland and one-fourth to S. Roman, Butler, Okla. Railway-switch. No. 940,646; Nov. 16; Sp. p. 4874; Gaz. vol. 148; p. 811.
- McFarland, J. D., Jr., Fruitvale, assignor to Afloat Motor Co., Oakland, Cal. Wave-motor. No. 937,712; Oct. 19; Sp. p. 4402; Gaz. vol. 147; p. 748.
- McFarland, J. V., *et al.* (See McFarland, G. L., assignor.)
- McFarland, L., assignor of one-half to J. J. Fitzgerald, Pittsburg, Pa. Metallic tie and rail-fastener. No. 939,067; Nov. 2; Sp. p. 1316; Gaz. vol. 148; p. 213.
- McFarland, R., Batesville, Pa. Spring-wheel. No. 930,557; Aug. 10; Sp. p. 1921; Gaz. vol. 145; p. 339.
- McFarland, R. L., and V. Tope, Sharpville, Pa. Collapsible box and crate. No. 916,360; Mar. 23; Sp. p. 5465; Gaz. vol. 140; p. 970.
- McFarland, W. H., East Orange, N. J. Computing and recording machine. No. 936,652; Oct. 12; Sp. p. 2224; Gaz. vol. 147; p. 369.
- McFarland, W. J., Hebron, Ind. Snow-plow. No. 925,717; June 22; Sp. p. 5494; Gaz. vol. 143; p. 958.
- McFarlane, P. D. (See McFarlane, R., assignor.)
- McFarlane, R., assignor of one-half to P. D. McFarlane, Minneapolis, Minn. Scale. No. 932,050; Aug. 24; Sp. p. 5171; Gaz. vol. 145; p. 882.
- McFarren, J. E. (See Bailey and McFarren.)
- McFee, J. G. (See Wilcox, C. L., assignor.)
- McFeely, R. F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 929,869; Aug. 3; Sp. p. 520; Gaz. vol. 145; p. 84.
- McFeely, T., Philadelphia, Pa. Building construction. No. 943,447; Dec. 14; Sp. p. 3042; Gaz. vol. 149; p. 511.
- McGall, T. J. (See Johnson, J. W., assignor.)
- McGann, T. F., Somerville, Mass., assignor, by mesne assignments, to O. A. Miller Treeing Machine Company, Portland, Me. Holder for boot and shoe forms. No. 941,723; Nov. 30; Sp. p. 7208; Gaz. vol. 148; p. 1215.
- McGarr, J. C. (See Kneeder and McGarr.)
- McGarry, W. J., Jersey City, N. J. Metal lathing. No. 932,410; Aug. 24; Sp. p. 5862; Gaz. vol. 145; p. 1001.
- McGarvey, N. C., Philadelphia, Pa. Clothes-line prop. No. 915,369; Mar. 16; Sp. p. 3528; Gaz. vol. 140; p. 616.
- McGarvey, W. W., Cape Girardeau, Mo. Self-setting trap. No. 930,558; Aug. 10; Sp. p. 1923; Gaz. vol. 145; p. 339.
- McGavin, J., Springfield, Ill. Electric-lamp socket. No. 929,463; July 27; Sp. p. 5719; Gaz. vol. 144; p. 1003.
- McGavin, J., Springfield, Ill. Electroliner. No. 933,195; Sept. 7; Sp. p. 353; Gaz. vol. 146; p. 56.
- McGaw, T., Dayton, Ohio. Combination table and lounge. No. 913,032; Feb. 23; Sp. p. 4141; Gaz. vol. 139; p. 752.
- McGawen, W. R., Knoxville, assignor of one-half to J. S. Field, Peoria, Ill. Side-delivery rake. No. 908,601; Jan. 5; Sp. p. 359; Gaz. vol. 138; p. 58.
- McGee, C. H., Portland, Me. Window-screen. No. 917,106; Apr. 6; Sp. p. 291; Gaz. vol. 141; p. 53.
- McGee, W. H., Joliet, Ill. Lock-buckle. No. 919,919; Apr. 27; Sp. p. 6342; Gaz. vol. 141; p. 1083.
- McGee, W. M. (See Thorn and McGee.)
- McGehee, J. H. (See Towle, H. P., assignor.)
- McGeorge, J. M. (See Howald and McGeorge.)
- McGown, T. C., Everett, Mass. Autographic register. No. 923,990; June 8; Sp. p. 1965; Gaz. vol. 143; p. 326.
- McGerry, M., Grand Rapids, Mich., assignor to B. E. McDonald, Chicago, Ill. Air-filter. No. 931,014; Aug. 10; Sp. p. 2904; Gaz. vol. 145; p. 488.
- McGerry, M., Kalamazoo, Mich., assignor to B. E. McDonald, Chicago, Ill. Insulating composition. No. 931,015; Aug. 10; Sp. p. 2906; Gaz. vol. 145; p. 489.
- McGettigan, J. J., Seattle, Wash. Holder for paper bags. No. 930,681; Aug. 10; Sp. p. 2167; Gaz. vol. 145; p. 379.
- McGhee, J. F., Camden, N. J. Rail-joint. No. 935,394; Sept. 28; Sp. p. 4862; Gaz. vol. 146; p. 860.
- McGiehan, P. H., Garnerville, N. Y. Boiler-furnace. No. 908,879; Jan. 5; Sp. p. 925; Gaz. vol. 138; p. 147.
- McGiffert, J. R., assignor to Clyde Iron Works, Duluth, Minn. Drum for hoisting mechanisms and the like. No. 916,581; Mar. 30; Sp. p. 5955; Gaz. vol. 140; p. 1068.
- McGiffert, J. R., assignor to Clyde Iron Works, Duluth, Minn. Log-loader. No. 920,376; May 4; Sp. p. 582; Gaz. vol. 142; p. 93.
- McGiffert, J. R., assignor to Clyde Iron Works, Duluth, Minn. Locomotive for logging and the like. No. 923,564; June 1; Sp. p. 1007; Gaz. vol. 143; p. 154.
- McGiffert, J. R., assignor to Clyde Iron Works, Duluth, Minn. Log-skidding machine. No. 936,653; Oct. 12; Sp. p. 2227; Gaz. vol. 147; p. 369.
- McGill, M. J., Park City, Utah. Bending-machine. No. 922,942; May 25; Sp. p. 5882; Gaz. vol. 142; p. 1024.
- McGillivray, J., South Chicago, Ill. Valve device. No. 929,238; July 27; Sp. p. 5245; Gaz. vol. 144; p. 929.
- McGinley, P., Newark, Ohio. Railway-rail joint. No. 923,876; June 8; Sp. p. 1743; Gaz. vol. 143; p. 290.
- McGinnis, B. W., Wichita, Kans. Dipping device for bottles or jars. No. 929,464; July 27; Sp. p. 5719; Gaz. vol. 144; p. 1003.
- McGinnis, J. A. (See Paul and McGinnis.)
- McGlaughlin, W. F., Denver, Colo. Mop-wringer attachment. No. 919,920; Apr. 27; Sp. p. 6342; Gaz. vol. 141; p. 1083.
- McGlenn, J. F., Harvey, N. D. Grain-car door. No. 937,630; Oct. 19; Sp. p. 4235; Gaz. vol. 147; p. 722.
- McGlinchay, E., Galloway, Ohio. Device for transporting and weighing baled hay. No. 927,580; July 13; Sp. p. 1796; Gaz. vol. 144; p. 380.
- McGoffin, N. J., Spearfish, S. D. Vegetable-separator. No. 926,281; June 29; Sp. p. 6693; Gaz. vol. 143; p. 1180.
- McGoldrick, B. B., *et al.* (See Dobie, W. S., assignor.)
- McGoldrick, E. J., *et al.* (See Dobie, W. S., assignor.)
- McGough, S. P., assignor to A. S. Littlefield, Chicago, Ill. Rail-joint. No. 919,373; Apr. 27; Sp. p. 5182; Gaz. vol. 141; p. 898.
- McGowan, E., Mulberry, Kans. Mining-machine. No. 910,944; Jan. 26; Sp. p. 5122; Gaz. vol. 138; p. 923.
- McGowan, E. T., West Quincy, Mass. Crib-cover. No. 921,439; May 11; Sp. p. 2776; Gaz. vol. 142; p. 477.
- McGowan, H. B., Hurley, Okla. Cross-line buckle. No. 942,404; Dec. 7; Sp. p. 778; Gaz. vol. 149; p. 126.
- McGowan, J. R., Gaffney, S. C. Bag-holder. No. 918,355; Apr. 13; Sp. p. 2824; Gaz. vol. 141; p. 500.
- McGowan, M., assignor of one-half to F. Boettler, St. Louis, Mo. Velocipede. No. 926,131; June 29; Sp. p. 6369; Gaz. vol. 142; p. 1130.
- McGowen, W., Fanshawe, Okla. Wire-stretcher. No. 921,872; May 13; Sp. p. 3676; Gaz. vol. 142; p. 648.
- McGowen, W. R., Knoxville, assignor of one-half to J. S. Field, Peoria, Ill. Hay-loader. No. 920,077; Apr. 27; Sp. p. 6668; Gaz. vol. 141; p. 1134.
- McGranahan, C. (See Paar, H., assignor.)
- McGrath, H. B. (See Stingley, L. M., assignor.)
- McGrath, H. B., East Cleveland, Ohio. Grass-catcher. No. 939,068; Nov. 2; Sp. p. 1318; Gaz. vol. 148; p. 214.
- McGrath, P., Denver, Colo. Railway-switch. No. 926,816; July 6; Sp. p. 218; Gaz. vol. 144; p. 37.
- McGrath, P. H., Wollaston, assignor of one-half to C. H. Whitaker, Brookfield, Mass. Window-sash fastening. No. 909,318; Jan. 12; Sp. p. 1811; Gaz. vol. 138; p. 324.
- McGrath, P. J., assignor to J. F. Donnelly, Brockton, Mass. Rack for holding soles, taps, and the like. No. 917,643; Apr. 6; Sp. p. 1326; Gaz. vol. 141; p. 234.
- McGrath, W., and E. J. Buckbee, Urbana, Ill. Pipe-coupling. No. 930,984; Aug. 10; Sp. p. 2825; Gaz. vol. 145; p. 477.
- McGraw, J. J., *et al.* (See Connell, W. B., assignor.)
- McGraw, R., Syracuse, N. Y. Rotary motor. No. 943,783; Dec. 21; Sp. p. 3769; Gaz. vol. 149; p. 656.
- McGraw, W. E., Everett, Mass. Clock-case. No. 923,991; June 8; Sp. p. 1969; Gaz. vol. 143; p. 326.
- McGray, A. N., Boston, Mass. Hatch. No. 934,456; Sept. 21; Sp. p. 3004; Gaz. vol. 146; p. 523.
- McGregor, A., Glasgow, Scotland. Reaction spring drill or brace. No. 929,466; July 27; Sp. p. 5721; Gaz. vol. 144; p. 1004.
- McGregor, A., Glasgow, Scotland. Tool holder or chuck. No. 929,466; July 27; Sp. p. 5722; Gaz. vol. 144; p. 1004.
- McGregor, A. L., Duluth, Minn. Automobile buffer. No. 929,159; July 27; Sp. p. 5088; Gaz. vol. 144; p. 904.
- McGregor, C. P., Pittsburg, Pa. Blasting device. No. 921,144; May 13; Sp. p. 2140; Gaz. vol. 142; p. 577.
- McGregor, G. H., New Glasgow, Nova Scotia, Canada, and A. S. Rudland, New York, N. Y. Rack. No. 942,580; Dec. 7; Sp. p. 1147; Gaz. vol. 149; p. 186.
- McGregor, J. C. (See Smith and McGregor.)
- McGregor, R. R., Covington, Tenn. Truss. No. 910,303; Jan. 19; Sp. p. 3825; Gaz. vol. 138; p. 689.
- McGregor, W. A., Bradford, Pa. Well-pump. No. 940,545; Nov. 16; Sp. p. 4675; Gaz. vol. 148; p. 778.
- McGrew, L. W., Fraser, Colo. Rear sight for guns. No. 920,377; May 4; Sp. p. 588; Gaz. vol. 142; p. 94.
- McGrory, H. A., Detroit, Mich. Safety device for elevator-doors. No. 911,323; Feb. 2; Sp. p. 592; Gaz. vol. 139; p. 102.
- McGuifey, J. G., and R. P. Dowler, Groveport, Ohio. Trolley-head and guard. No. 912,400; Feb. 16; Sp. p. 2850; Gaz. vol. 139; p. 517.
- McGuinness, B. F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Pick-finder mechanism for looms. No. 913,301; Feb. 23; Sp. p. 4692; Gaz. vol. 139; p. 842.



*Alphabetical list of patentees—Continued.*

- McGuiness, B. F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Center-filling stop-motion for looms. No. 917,644; Apr. 6; Sp. p. 1328; Gaz. vol. 141; p. 234.
- McGuiness, B. F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Loom. No. 937,165; Oct. 19; Sp. p. 3255; Gaz. vol. 147; p. 568.
- McGuiness, B. F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weaving. No. 938,502; Nov. 2; Sp. p. 121; Gaz. vol. 148; p. 19.
- McGuiness, B. F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Filling-thread-cutting device for weft-replenishing looms. No. 939,433; Nov. 9; Sp. p. 2197; Gaz. vol. 148; p. 365.
- McGuiness, B. F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Shuttle-changing loom. No. 943,038; Dec. 14; Sp. p. 2178; Gaz. vol. 149; p. 372.
- McGuiness, B. F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Filling-detector mechanism for weft-replenishing looms. No. 943,702; Dec. 21; Sp. p. 3610; Gaz. vol. 149; p. 628.
- McGuiness, B. F., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 943,756; Dec. 21; Sp. p. 3717; Gaz. vol. 149; p. 647.
- McGuire-Cummings Manufacturing Company. (See Cooke, W. J., assignor.)
- McGuire, Cummings Manufacturing Company. (See Lennox, T., assignor.)
- McGuire, J. J., Minneapolis, Minn. Water-closet. No. 911,748; Feb. 9; Sp. p. 1431; Gaz. vol. 139; p. 266.
- McGuire, J. K., assignor of one-half to E. R. Bierce, Valley Junction, Iowa. Car-door bracket. No. 943,039; Dec. 14; Sp. p. 2181; Gaz. vol. 149; p. 373.
- McGuire, M. A., Cincinnati, Ohio. Paper material. No. 925,128; June 15; Sp. p. 4334; Gaz. vol. 143; p. 739.
- McGuire, T., New York, N. Y. Safety appliance for railways. No. 912,017; Feb. 9; Sp. p. 2039; Gaz. vol. 139; p. 355.
- McGuire, T. P., et al. (See Baum, J. B., assignor.)
- McGuire, T. W. L., and L. Hammick, Kansas City, Mo. Carburetor. No. 942,181; Dec. 7; Sp. p. 332; Gaz. vol. 149; p. 51.
- McGurrian, P. A., assignor of one-half to W. C. Winans, Norwood, Ohio. Water-meter. No. 923,992; June 8; Sp. p. 1970; Gaz. vol. 143; p. 327.
- McHaffie, M. E. (See Hiatt, W. F., assignor.)
- McHale, J. (See McHale, P. and J.)
- McHale, P. and J., assignors of one-third to E. K. Atwood, Lowell, Mass. Belt-fastener. No. 924,490; June 8; Sp. p. 3007; Gaz. vol. 143; p. 490.
- McHenry, C. L., Lansing, Mich. Controller for gas-engines. No. 932,804; Aug. 31; Sp. p. 6735; Gaz. vol. 145; p. 1155.
- McHenry, F. J. (See Phillips, E. U., assignor.)
- McHugh, A. L. (See Pomeroy and McHugh.)
- McHugh, A. L., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company.\* Brush-holder. No. 932,309; Aug. 24; Sp. p. 5673; Gaz. vol. 145; p. 968.
- McHugh, E. T., Holyoke, Mass. Match-plate for molders' flasks. No. 927,999; July 13; Sp. p. 2692; Gaz. vol. 144; p. 459.
- McHugh, E. T., Holyoke, Mass. Molder's flask. No. 928,000; July 13; Sp. p. 2694; Gaz. vol. 144; p. 459.
- McHugh, J. T. (See Downing and McHugh.)
- McIlwain, E. H., and J. A. Key, Olathe, Kans. Foldable clothes-rack. No. 922,803; May 25; Sp. p. 5572; Gaz. vol. 142; p. 978.
- McIlwaine, J. F., Lebanon, Mo. Canning apparatus. No. 928,144; July 13; Sp. p. 2965; Gaz. vol. 144; p. 507.
- McIlwain, J., Oakville, Ill. Nut-lock. No. 938,503; Nov. 2; Sp. p. 123; Gaz. vol. 148; p. 20.
- McIndoe, J. W., Boston, assignor of one-half to A. E. Whitney, Winchester, Mass. Knockdown paper box. No. 919,292; Apr. 20; Sp. p. 4093; Gaz. vol. 141; p. 836.
- McInerney, B., Council Bluffs, Iowa. Regulating step-switch. No. 925,495; June 22; Sp. p. 5021; Gaz. vol. 143; p. 886.
- McInnes, C. (See Todd and McInnes.)
- McIntus, G. D., et al. (See Reynolds, H. B., assignor.)
- McIntire, D. C., deceased, Bradford, Pa.; L. M. McIntire, administratrix. Apparatus for treating gas. No. 942,863; Dec. 7; Sp. p. 1731; Gaz. vol. 149; p. 281.
- McIntire, E. H., Chicago, Ill. Safety-razor. No. 936,654; Oct. 12; Sp. p. 2230; Gaz. vol. 147; p. 369.
- McIntire, J. E., Mitchell, Ind. Suspension-hook. No. 908,602; Jan. 5; Sp. p. 362; Gaz. vol. 138; p. 58.
- McIntire, J. E., Dorchester, assignor to H. W. Brown, trustee, Boston, Mass. Eyeletting-machine. No. 915,996; Mar. 23; Sp. p. 4808; Gaz. vol. 140; p. 850.
- McIntire, J. E., South Framingham, Mass., assignor to H. W. Brown, trustee. Eyeletting-machine. No. 921,648; May 11; Sp. p. 3201; Gaz. vol. 142; p. 547.
- McIntire, J. N., assignor to Brunswick-Balke-Collender Company, New York, N. Y. Combined sofa or settee and pool or billiard table. No. 921,725; May 18; Sp. p. 3362; Gaz. vol. 142; p. 598.
- McIntire, L. M., administratrix. (See McIntire, D. C.)
- McIntosh, A. D. F. (See Gurnee, C. M., assignor.)
- McIntosh, F. F., et al. (See Russ, J. D., assignor.)
- McIntosh, F. G., Upper Fern Tree Gully, and H. V. Hampton, Melbourne, Victoria, Australia; said Hampton assignor to said McIntosh. Portable filling-machine. No. 917,645; Apr. 6; Sp. p. 1330; Gaz. vol. 141; p. 234.
- McIntosh, G., Stonington, Conn. Turbine. No. 920,489; May 4; Sp. p. 791; Gaz. vol. 142; p. 128.
- McIntosh, J. M., Warren, Ohio. Bread-raiser. No. 931,075; Aug. 17; Sp. p. 3065; Gaz. vol. 145; p. 537.
- McIntosh, J. M., Warren, Ohio. Ventilating-chimney. No. 940,348; Nov. 16; Sp. p. 4220; Gaz. vol. 148; p. 711.
- McIntosh Stereopticon Company. (See Hoy, P. R., assignor.)
- McIntosh, W. F., Boston, Mass. Snare-strainer and muffler for drums. No. 911,605; Feb. 9; Sp. p. 1137; Gaz. vol. 139; p. 219.
- McIntyre, F., New York, N. Y. Screw-cap for collapsible tubes. No. 944,203; Dec. 21; Sp. p. 4650; Gaz. vol. 149; p. 797.
- McIntyre, F., and J. W. Rogers, Chicago, Ill.; said Rogers assignor to said McIntyre. Punching-machine. No. 923,198; June 1; Sp. p. 161; Gaz. vol. 143; p. 27.
- McIntyre, F. S., Pittsburg, Pa. Safety-valve. No. 934,563; Sept. 21; Sp. p. 3200; Gaz. vol. 146; p. 558.
- McIntyre, G., Jersey City, N. J. Electric-terminal clip. No. 910,842; Jan. 26; Sp. p. 4931; Gaz. vol. 138; p. 890.
- McIntyre, J. J., Hartford, Conn. Internal-combustion engine. No. 920,167; May 4; Sp. p. 144; Gaz. vol. 142; p. 23.
- McIntyre, J. J., assignor of one-half to F. F. Eisele, Ironton, Ohio. Signal-lantern. No. 941,803; Nov. 30; Sp. p. 7385; Gaz. vol. 148; p. 1243.
- McIntyre, J. W. (See Davis, J. W., assignor.)
- McIntyre, M. M., assignor to Perfection Spring Company, Cleveland, Ohio. Vehicle-spring. No. 911,151; Feb. 2; Sp. p. 257; Gaz. vol. 139; p. 45.
- McIntyre, W. H. (See Guilford, R. W., assignor.)
- McKaig, A., Sr. (See Dunn and McKaig.)
- McKain, F., Cleveland, Ohio. Bag-closure. No. 939,736; Nov. 9; Sp. p. 2844; Gaz. vol. 148; p. 469.
- McKam, L. G., Detroit, Mich. Saw-setting tool. No. 936,800; Oct. 12; Sp. p. 2510; Gaz. vol. 147; p. 418.
- McKay, H. V. (See Harrison, J. R., assignor.)
- McKay, J., Bendigo, Victoria, Australia. Bed and bedstead for the use of invalids. No. 944,204; Dec. 21; Sp. p. 4651; Gaz. vol. 149; p. 797.
- McKay, J. A., Dunn, N. C. Stalk-cutter. No. 931,635; Aug. 17; Sp. p. 4203; Gaz. vol. 145; p. 721.
- McKay, J. R., assignor of one-third to B. H. King and one-third to J. C. Davidson, Joliet, Ill. Lamp. No. 933,385; Sept. 7; Sp. p. 802; Gaz. vol. 146; p. 124.
- McKay, M. G. (See Squyers, A. E., assignor.)
- McKay, R. E., New Glasgow, Nova Scotia, Canada. Folding display-rack. No. 928,533; July 20; Sp. p. 3812; Gaz. vol. 144; p. 668.
- McKay, T. J., Atlanta, Ga. Stock-car. No. 928,269; July 20; Sp. p. 3279; Gaz. vol. 144; p. 581.
- McKay, W. E., Milton, and H. N. Cheney, Boston, Mass. Water-gas generator. No. 911,899; Feb. 9; Sp. p. 1704; Gaz. vol. 139; p. 316.
- McKeand, S. S., Ceredo, W. Va. Mail-catcher. No. 944,901; Dec. 28; Sp. p. 6180; Gaz. vol. 149; p. 1064.
- McKee, A. G. (See Nelson, A. C., assignor.)
- McKee, G. W., Chicago, Ill. Metal-melting hydrocarbon-burning furnace. No. 940,710; Nov. 23; Sp. p. 5025; Gaz. vol. 148; p. 858.
- McKee, G. W., assignor of one-half to F. R.utherford, Chicago, Ill. Car-window-cleaning device. No. 932,051; Aug. 24; Sp. p. 5173; Gaz. vol. 145; p. 883.
- McKee, J. A., Jeffersonville, Ind. Tile. No. 914,862; Mar. 9; Sp. p. 2545; Gaz. vol. 140; p. 425.
- McKee, N., Milwaukee, Wis. Lubricant-distributor. No. 918,892; Apr. 20; Sp. p. 4030; Gaz. vol. 141; p. 707.
- McKee, R. A., assignor to Allis-Chalmers Company, Milwaukee, Wis. Steam-turbine. No. 937,006; Oct. 12; Sp. p. 2911; Gaz. vol. 147; p. 485.
- McKee, T. C., Chicago, Ill. Ammonia refrigerating apparatus. No. 943,040; Dec. 14; Sp. p. 2183; Gaz. vol. 149; p. 373.
- McKee, W. B., Big Island, Va. Kneading-board. No. 916,763; Mar. 30; Sp. p. 6275; Gaz. vol. 140; p. 1123.
- McKee, W. J., assignor to Imperial Cash Register Company, Detroit, Mich. Cash-register. No. 940,816; Nov. 23; Sp. p. 5267; Gaz. vol. 148; p. 894.
- McKeen, T. L., Scranton, Pa. Friction draft-gear. No. 943,314; Dec. 14; Sp. p. 2754; Gaz. vol. 149; p. 465.

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- McKeen, W. R., Jr., Omaha, Nebr., assignor to E. H. Harriman, Arden, N. Y. Power-controlling apparatus. No. 937,844; Oct. 26; Sp. p. 4680; Gaz. vol. 147; p. 810.
- McKeen, W. R., Jr., Omaha, Nebr., assignor to E. H. Harriman, Arden, N. Y. Engine-valve. No. 940,349; Nov. 16; Sp. p. 4223; Gaz. vol. 148; p. 712.
- McKeever, E. L., *et al.* (See Saxton, T. G., assignor.)
- McKeever, J. P., *et al.* (See Saxton, T. G., assignor.)
- McKelvey, E. N. (See Eells and McKelvey.)
- McKelvey, R. J., Rochester, N. Y. Turn-table. No. 935,045; Sept. 28; Sp. p. 4162; Gaz. vol. 146; p. 746.
- McKelvey, W. W. (See Sherman and McKelvey.) (Reissue.)
- McKendrick, C. G., Monroe, N. Y. Air-moistener. No. 914,863; Mar. 9; Sp. p. 2546; Gaz. vol. 140; p. 425.
- McKenna, C. F., New York, N. Y. Process and apparatus for the manufacture of Portland cement. No. 936,555; Oct. 12; Sp. p. 2019; Gaz. vol. 147; p. 333.
- McKenna, E. D., New York, N. Y. Tally-card. No. 927,581; July 13; Sp. p. 1797; Gaz. vol. 144; p. 380.
- McKenna, J. T. (See Cloud, H. B., assignor.)
- McKenna, T. E., East Orange, N. J. Damper-regulator. No. 922,614; May 25; Sp. p. 5186; Gaz. vol. 142; p. 918.
- McKenna, J. B., Pueblo, Colo. Regenerative furnace. No. 936,930; Oct. 12; Sp. p. 2757; Gaz. vol. 147; p. 461.
- McKenna, J. B., Pueblo, Colo. Flue and valve system for regenerative furnaces. No. 936,931; Oct. 12; Sp. p. 2759; Gaz. vol. 147; p. 461.
- McKenna, J. B., and F. E. Parks, Pueblo, Colo. Metal port and end-wall construction for regenerative furnaces. No. 932,411; Aug. 24; Sp. p. 5863; Gaz. vol. 145; p. 1001.
- McKenna, J. B., F. E. Parks, and S. W. Gillin, Pueblo, Colo. Door-frame and roof-skewback for furnaces. No. 918,356; Apr. 13; Sp. p. 2826; Gaz. vol. 141; p. 500.
- McKenzie, A., Jamestown, assignor, by mesne assignments, to Empire Voting Machine Company, Rochester, N. Y. Voting-machine. No. 943,041; Dec. 14; Sp. p. 2185; Gaz. vol. 149; p. 373.
- McKenzie, G., Bay City, Mich. Saw-filing clamp. No. 940,045; Nov. 16; Sp. p. 3538; Gaz. vol. 148; p. 605.
- McKenzie, J. R. (See Vaughan and McKenzie.)
- McKenzie, T. M., Adamsville, Tenn. Wire-stretcher. No. 910,945; Jan. 26; Sp. p. 5125; Gaz. vol. 138; p. 923.
- McKenzie, W. H. (See Knapp, W. H., assignor.)
- McKeown, J. B., Union Hill, N. J. Automatic control of heat from radiators. No. 908,797; Jan. 5; Sp. p. 761; Gaz. vol. 138; p. 120.
- McKeown, J. M., Philadelphia, Pa. Regulator for hot-water heating systems. No. 913,033; Feb. 23; Sp. p. 4142; Gaz. vol. 139; p. 752.
- McKerchey, J. M., Detroit, Mich. Trap-fitting. No. 930,682; Aug. 10; Sp. p. 2169; Gaz. vol. 145; p. 379.
- McKernan, F. M., assignor of one-half to J. E. Stacey, Cincinnati, Ohio. Construction of glass-molds. No. 941,584; Nov. 30; Sp. p. 6903; Gaz. vol. 148; p. 1168.
- McKerrow, H. G. (See Sandison, W. M., assignor.) (Reissue.)
- McKesson, C. L., and O. S. Black, Colorado Springs, Colo. Ore-concentrator. No. 941,333; Nov. 23; Sp. p. 6353; Gaz. vol. 148; p. 1063.
- McKewen, J. (See Townsend, C. C., assignor.)
- McKibbin, J., New York, N. Y. Making flexible book-covers. No. 921,873; May 18; Sp. p. 3677; Gaz. vol. 142; p. 648.
- McKibbin, J., New York, N. Y. Machine for applying paste to cardboard, &c. No. 941,530; Nov. 30; Sp. p. 6799; Gaz. vol. 148; p. 1151.
- McKinley, C., New York, N. Y. Nut-lock. No. 925,496; June 22; Sp. p. 5027; Gaz. vol. 143; p. 886.
- McKinley, C. (See Tracy, F. W., assignor.)
- McKinley, G. H., and S. Steenburgh, Moline, Ill. Sash-weight. No. 932,995; Aug. 31; Sp. p. 7077; Gaz. vol. 145; p. 1217.
- McKinley, T. (See Dixon and McKinley.)
- McKinney, E. E., Jr., Farmington, Ill. Chuck for rock-drills. No. 922,716; May 25; Sp. p. 5395; Gaz. vol. 142; p. 951.
- McKinney, L. J., Prairie Depot, Ohio. Device for pulling oil-wells. No. 920,615; May 4; Sp. p. 1054; Gaz. vol. 142; p. 171.
- McKinzie, F. H. (See Poffinbarger, G. W., assignor.)
- McKissock, J. L., Pittsburg, Pa. Skirt-marker. No. 919,921; Apr. 27; Sp. p. 6343; Gaz. vol. 141; p. 1084.
- McKnight, E. J., *et al.* (See Puryear, L., assignor.)
- McKnight, F., St. Louis, Mo. Switch. No. 933,100; Sept. 7; Sp. p. 134; Gaz. vol. 146; p. 22.
- McKnight, F. W., assignor of one-half to J. B. Krimminger, Los Angeles, Cal. Pipe-riveting machine. No. 940,608; Nov. 16; Sp. p. 4788; Gaz. vol. 148; p. 798.
- McKnight, L. G., *et al.* (See Puryear, L., assignor.)
- McKnight, R., Pittsburg, Pa. Treating ores. No. 912,485; Feb. 16; Sp. p. 3010; Gaz. vol. 139; p. 544.
- McKnight, T. R., assignor to Western Wheeled Scraper Company, Aurora, Ill. Dump-car. No. 920,616; May 4; Sp. p. 1050; Gaz. vol. 142; p. 172.
- McKnight, T. R., Chicago, assignor to Western Wheeled Scraper Company, Aurora, Ill. Dump-car. No. 932,564; Aug. 31; Sp. p. 6204; Gaz. vol. 145; p. 1075.
- McKnight, W., Dayton, Ohio. Adjuster for Venetian blinds. No. 909,927; Jan. 19; Sp. p. 3024; Gaz. vol. 138; p. 560.
- McKoy, E. A., New Orleans, La. Turpentine-cup. No. 941,724; Nov. 30; Sp. p. 7210; Gaz. vol. 148; p. 1216.
- McKoy, E. A., New Orleans, La. Turpentine-cup. No. 942,210; Dec. 7; Sp. p. 390; Gaz. vol. 149; p. 60.
- McKoy, E. A., New Orleans, La. Turpentine-cup. No. 942,211; Dec. 7; Sp. p. 391; Gaz. vol. 149; p. 60.
- McKoy, E. A., New Orleans, La. Apparatus for turpentine-gathering. No. 942,212; Dec. 7; Sp. p. 393; Gaz. vol. 149; p. 60.
- McKoy, L. F. (See Parker, W. D., assignor.)
- McLain, J. E. (See Geterman, C. J., assignor.)
- McLain, J. F., St. Joseph, Mo. Pneumatic siphoning system for circulating air through barrels. No. 938,014; Oct. 26; Sp. p. 5039; Gaz. vol. 147; p. 867.
- McLain, S. K., and F. A. Pierce, Wheeling, W. Va. Locomotive-engine. No. 912,272; Feb. 9; Sp. p. 2538; Gaz. vol. 139; p. 436.
- McLane, A., Lansford, Pa., and G. Sipp, Paterson, N. J. Reel for reeling-machines. No. 943,798; Dec. 21; Sp. p. 3801; Gaz. vol. 149; p. 602.
- McLane, H., assignor of one-half to E. W. Wilde, Bangor, Me. Hod. No. 940,350; Nov. 16; Sp. p. 4226; Gaz. vol. 148; p. 713.
- McLaren, A. A., Warton, Ontario, Canada. Rotary engine. No. 935,046; Sept. 28; Sp. p. 4163; Gaz. vol. 146; p. 746.
- McLarty, W. B., assignor of one-half to J. T. Boucher, Wilburton, Okla. Electrical shot-firing machine for mines. No. 916,476; Mar. 30; Sp. p. 5730; Gaz. vol. 140; p. 1034.
- McLaughlin, C. N., Winona, Minn. Disk-plate dress. No. 934,457; Sept. 21; Sp. p. 3009; Gaz. vol. 146; p. 524.
- McLaughlin, C. N., assignor to New Winona Manufacturing Company, Winona, Minn. Grinding-mill. No. 911,061; Feb. 2; Sp. p. 78; Gaz. vol. 139; p. 14.
- McLaughlin, D. B., Philadelphia, Pa. Fire-bucket. No. 926,998; July 6; Sp. p. 598; Gaz. vol. 144; p. 98.
- McLaughlin, E. F., assignor of one-fourth to S. H. Howes, San Francisco, Cal. Fruit-packing device. No. 912,874; Feb. 16; Sp. p. 3835; Gaz. vol. 139; p. 675.
- McLaughlin, G., *et al.* (See McLaughlin, J. F., assignor.)
- McLaughlin, G. E., Huntington, W. Va. Pipe-coupling. No. 932,805; Aug. 31; Sp. p. 6736; Gaz. vol. 145; p. 1155.
- McLaughlin, H. F. (See Johnson, G. H., assignor.)
- McLaughlin, J., Ottawa, Ontario, Canada. Means for removing soot and sparks from smoke passing through flues. No. 931,788; Aug. 24; Sp. p. 4592; Gaz. vol. 145; p. 796.
- McLaughlin, J. C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 910,410; Jan. 19; Sp. p. 4049; Gaz. vol. 138; p. 725.
- McLaughlin, J. C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 924,096; June 8; Sp. p. 2145; Gaz. vol. 143; p. 358.
- McLaughlin, J. C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 925,373; June 15; Sp. p. 4780; Gaz. vol. 143; p. 816.
- McLaughlin, J. C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 926,014; June 22; Sp. p. 6111; Gaz. vol. 143; p. 1057.
- McLaughlin, J. C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 927,426; July 6; Sp. p. 1454; Gaz. vol. 144; p. 241.
- McLaughlin, J. C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 928,877; July 20; Sp. p. 4499; Gaz. vol. 144; p. 784.
- McLaughlin, J. C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 929,621; July 27; Sp. p. 6028; Gaz. vol. 144; p. 1055.
- McLaughlin, J. C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 941,166; Nov. 23; Sp. p. 6006; Gaz. vol. 148; p. 1010.
- McLaughlin, J. F., Erie, Pa. Mop. No. 936,655; Oct. 12; Sp. p. 2232; Gaz. vol. 147; p. 370.
- McLaughlin, J. F., Erie, Pa., assignor of one-third to C. Rappold and one-third to G. McLaughlin. Mop. No. 937,007; Oct. 12; Sp. p. 2914; Gaz. vol. 147; p. 485.
- McLaughlin, J. H., Millers Falls, Mass. Ratchet-brace. No. 935,047; Sept. 28; Sp. p. 4166; Gaz. vol. 146; p. 747.
- McLaughlin, J. J., *et al.* (See Peileke, G., assignor.)



*Alphabetical list of patentees—Continued.*

- McLaughlin, M. P. (See Ewart, J., assignor.)
- McLaughlin, R., Storm Lake, Iowa. Threshing-machine separator. No. 922,615; May 25; Sp. p. 5188; Gaz. vol. 142; p. 918.
- McLaughlin, T. M., and R. R. Hughes, Jr., Utica, N. Y., assignors to Singer Manufacturing Company. Work-clamp-operating device for sewing-machines. No. 931,700; Aug. 17; Sp. p. 4381; Gaz. vol. 145; p. 744.
- McLaughlin, W. B., assignor to Sanitation and Supply Company, New York, N. Y. Apparatus for producing formaldehyde. No. 932,635; Aug. 31; Sp. p. 6375; Gaz. vol. 145; p. 1100.
- McLaughlin, W. L. (See Bonson and McLaughlin.)
- McLaughlin, W. R. (See Radcliff, C. A., assignor.)
- McLean, A., Minneapolis, Minn. Bed-rail-notching machine. No. 934,090; Sept. 14; Sp. p. 2289; Gaz. vol. 146; p. 376.
- McLean, C. B., trustee. (See Hosack, Geltz, and McBane, assignors.)
- McLean, D. D. (See Drowley and McLean.)
- McLean, D. W., Mount Hutt, Methven, New Zealand. Tire. No. 935,126; Sept. 28; Sp. p. 4336; Gaz. vol. 146; p. 774.
- McLean, F. W., West Monroe, La. Meter-box. No. 930,311; Aug. 3; Sp. p. 1388; Gaz. vol. 145; p. 230.
- McLean, F. W., Shreveport, La. Saw set and clamp. No. 931,076; Aug. 17; Sp. p. 3066; Gaz. vol. 145; p. 537.
- McLean, J., *et al.* (See Holly, C., assignor.)
- McLean, J. C., Cleveland, Ohio. Comb. No. 928,785; July 20; Sp. p. 4308; Gaz. vol. 144; p. 752.
- McLean, J. E., Plum township, Allegheny county, Pa. Attachment for faucets and spigots. No. 939,069; Nov. 2; Sp. p. 1320; Gaz. vol. 148; p. 214.
- McLean, M. F., *et al.* (See Buell, H. J., assignor.)
- McLean, M. F., Denver, Colo., assignor of three-eighths to D. Athay and three-eighths to L. J. Findlay, Logan City, Utah. Metal railway-tie and rail-fastening means. No. 923,370; June 1; Sp. p. 596; Gaz. vol. 143; p. 87.
- McLean, W. J., Everett, Mass. Amusement device. No. 941,334; Nov. 23; Sp. p. 6356; Gaz. vol. 148; p. 1063.
- McLean, W. T., H. C. Lyons, and C. R. Clark, Alexandria, Va. Pump. No. 940,817; Nov. 23; Sp. p. 5273; Gaz. vol. 148; p. 894.
- McLeish, W., Appleton, Wis. Car-mover. No. 938,328; Oct. 26; Sp. p. 5722; Gaz. vol. 147; p. 975.
- McLeland, J., Portland, Oreg. Folding bed. No. 935,921; Oct. 5; Sp. p. 690; Gaz. vol. 147; p. 101.
- McLeland, J. C., Cleveland, Ohio. Calculating-machine. No. 918,766; Apr. 20; Sp. p. 3748; Gaz. vol. 141; p. 665.
- McLellan, A., Bridgeport, Ill. Railway-spike. No. 919,062; Apr. 20; Sp. p. 4359; Gaz. vol. 141; p. 761.
- McLellan, H. (See Mayer, F. G., assignor.)
- McLellan, H. R. (See Mowry, A. L., assignor.)
- McLellan, J. T., Vancouver, British Columbia, Canada. Sugar-bowl. No. 922,315; May 18; Sp. p. 4546; Gaz. vol. 142; p. 790.
- McLennan, D. F. (See Latulip, F., assignor.)
- McLennan, R. (See Baker and McLennan.)
- McLennan, R., Ballston Spa, N. Y. Cleat for electric wiring. No. 911,429; Feb. 2; Sp. p. 783; Gaz. vol. 139; p. 136.
- McLeod, C. D. (See Yockey, F., assignor.)
- McLeod, C. J., Hyde Park, Mass., assignor, by mesne assignments, to Automatic Beam Scale Company. Weighing-machine. No. 930,875; Aug. 10; Sp. p. 2571; Gaz. vol. 145; p. 443.
- McLeod, C. J., Hyde Park, Mass., assignor, by mesne assignments, to Automatic Beam Scale Company. Coin-controlled weighing-machine. No. 930,876; Aug. 10; Sp. p. 2588; Gaz. vol. 145; p. 443.
- McLeod, H. D., Cleveland Heights, Ohio. Concentrating-table. No. 930,218; Aug. 3; Sp. p. 1224; Gaz. vol. 145; p. 201.
- McLeod, R. S., Didsbury, Manchester, England. Alternating-current regulator. No. 913,757; Mar. 2; Sp. p. 170; Gaz. vol. 140; p. 29.
- McLeod, W. C., Holyoke, Mass., assignor to International Steam Pump Company, New York, N. Y. Pump. No. 929,467; July 27; Sp. p. 5724; Gaz. vol. 144; p. 1005.
- McLeod, W. H., Boston, Mass. Engine. No. 911,670; Feb. 9; Sp. p. 1290; Gaz. vol. 139; p. 241.
- McLeran, A. M., Kansas City, Mo., assignor to Two Edge Mfg. Co. Sharpening-machine. No. 909,319; Jan. 12; Sp. p. 1813; Gaz. vol. 138; p. 325.
- McLin, C. E., and J. S. Bachman, Rome, Ga. Baling-machine. No. 914,160; Mar. 2; Sp. p. 1070; Gaz. vol. 140; p. 170.
- McLinden, J. (See Selah, H. A., assignor.)
- McLinden, W. J., Owen Sound, Ontario, Canada. Ankle-support. No. 943,703; Dec. 21; Sp. p. 3614; Gaz. vol. 149; p. 628.
- McLoughlin Brothers. (See Rigney, W. J., assignor.)
- McLoughlin, M. J., Sour Lake, and J. S. Wynn, Beaumont, Tex. Core-drill. No. 929,780; Aug. 3; Sp. p. 316; Gaz. vol. 145; p. 53.
- McLusky, W. B., Perth, Scotland. Air or gas preheating device for furnaces and the like. No. 925,215; June 15; Sp. p. 4510; Gaz. vol. 143; p. 769.
- McMahal, J. E., assignor of one-half to W. H. Thomson, Homeland, Ga. Plumb-level. No. 937,631; Oct. 19; Sp. p. 4237; Gaz. vol. 147; p. 722.
- McMahon, A., Suring, Wis. Pea-harvester. No. 936,733; Oct. 12; Sp. p. 2379; Gaz. vol. 147; p. 396.
- McMahon, H. R., Cleveland, Ohio. Reinforced-concrete pipe structure. No. 912,318; Feb. 16; Sp. p. 2672; Gaz. vol. 139; p. 489.
- McMahon, O. E., Elgin, Ill. Form for concrete work. No. 933,327; Sept. 7; Sp. p. 667; Gaz. vol. 146; p. 103.
- McMahon, T. F., Hyde Park, Mass. Pocket-holder for hand-bags and similar receptacles. No. 910,713; Jan. 26; Sp. p. 4668; Gaz. vol. 138; p. 849.
- McManis, J. V., J. R. Reed, and R. E. Bounds, Baird, Tex.; said Reed and Bounds assignors to said McManis. Osteopathic table. No. 921,559; May 11; Sp. p. 3000; Gaz. vol. 142; p. 515.
- McMannus, C. F. (See MacLagan, J., assignor.)
- McManus, A. R. (See Kropp, C., assignor.)
- McMasters, A. H., assignor of one-half to M. Hertzberg, Bellaire, Ohio. Train hose-coupling. No. 939,070; Nov. 2; Sp. p. 1321; Gaz. vol. 148; p. 214.
- McMasters, A. L., assignor of one-half to J. M. Street, Chicago Heights, Ill. Railway frog and switch. No. 917,737; Apr. 6; Sp. p. 1509; Gaz. vol. 141; p. 264.
- McMasters, W. B., Bellaire, assignor of one-half to A. C. Roach, Athens, Ohio. Whip-socket. No. 910,081; Jan. 19; Sp. p. 3320; Gaz. vol. 138; p. 611.
- McMeen & Miller. (See Hulfish, D. S., assignor.)
- McMenamin, P., Jersey City, N. J. Hasp-lock. No. 943,365; Dec. 14; Sp. p. 2868; Gaz. vol. 149; p. 482.
- McMichael, A. W. (See Ferguson and McMichael.)
- McMichael, J. G., Chicago, Ill. Rail-joint. No. 932,052; Aug. 24; Sp. p. 5176; Gaz. vol. 145; p. 883.
- McMichael, J. G., Chicago, Ill. Rail-joint. No. 932,053; Aug. 24; Sp. p. 5176; Gaz. vol. 145; p. 883.
- McMichael, R. W., Hartford, Conn. Puzzle. No. 937,166; Oct. 19; Sp. p. 3264; Gaz. vol. 147; p. 568.
- McMillan Book Company. (See McMillan and Joslyn, assignors.)
- McMillan, C. W., *et al.* (See Bickle and McMillan, assignors.)
- McMillan, H. P., assignor to W. A. Tottle & Co., Baltimore, Md. Bridle for brushes. No. 924,623; June 8; Sp. p. 3285; Gaz. vol. 143; p. 535.
- McMillan, J. B., North Vernon, Ind. Fence-post. No. 930,782; Aug. 10; Sp. p. 2380; Gaz. vol. 145; p. 412.
- McMillan, J. L., Syracuse, N. Y. Loose-leaf binder. No. 910,714; Jan. 26; Sp. p. 4669; Gaz. vol. 138; p. 849.
- McMillan, J. L., Syracuse, N. Y. Loose-leaf binder. No. 930,783; Aug. 10; Sp. p. 2381; Gaz. vol. 145; p. 412.
- McMillan, J. L., and C. H. Joslyn, assignors to McMillan Book Company, Syracuse, N. Y. Loose-leaf binder. No. 943,156; Dec. 14; Sp. p. 2431; Gaz. vol. 149; p. 413.
- McMillan, J. W., Los Angeles, Cal. Means for closing the entrances to and exits from passenger-cars. No. 915,207; Mar. 16; Sp. p. 3229; Gaz. vol. 140; p. 564.
- McMillan, M. (See Bickle and McMillan.)
- McMillan, W., Market Harborough, England. Timing-machine for use in pigeon-races and the like. No. 937,845; Oct. 26; Sp. p. 4685; Gaz. vol. 147; p. 811.
- McMillen, J., Raleigh, N. C., assignor of one-half to E. C. Woodward, Richmond, Va. Concrete floor. No. 925,941; June 22; Sp. p. 5981; Gaz. vol. 143; p. 1033.
- McMillen, J. A., Boyers, Pa. Rail-fastener. No. 937,167; Oct. 19; Sp. p. 3264; Gaz. vol. 147; p. 569.
- McMillin, L. J., Indianapolis, Ind. Corn-sheller. No. 932,889; Aug. 31; Sp. p. 6887; Gaz. vol. 145; p. 1183.
- McMorran, E. E. (See Krag, E. L., assignor.)
- McMullen, C. P., New York, N. Y. Steam and liquid pressure regulating device. No. 944,689; Dec. 28; Sp. p. 5731; Gaz. vol. 149; p. 992.
- McMullen, C. P., Brooklyn, assignor to Ideal Automatic Mfg. Co., New York, N. Y. Automatic steam-pump governor. No. 924,097; June 8; Sp. p. 2147; Gaz. vol. 143; p. 359.
- McMullen, G. S. R., Los Angeles, Cal. Gem cutting and polishing machine. No. 925,016; June 15; Sp. p. 4122; Gaz. vol. 143; p. 701.
- McMullen, G. W., Chicago, Ill. Making sugar. No. 913,758; Mar. 2; Sp. p. 175; Gaz. vol. 140; p. 29.
- McMullen, J., Kent, Ohio. Automatic curtain hook and release for vestibule-cars. No. 917,107; Apr. 6; Sp. p. 293; Gaz. vol. 141; p. 53.
- McMullin, F. V., Edgewood, assignor to R. A. Cummings, Beaver, Pa. Deformed bar. No. 911,062; Feb. 2; Sp. p. 80; Gaz. vol. 139; p. 15.
- McMurray, R. L., Portsmouth, Va. Dauber. No. 912,719; Feb. 16; Sp. p. 3541; Gaz. vol. 139; p. 627.
- McMurray, S. M., Brooklyn, N. Y. Winding and drying reel. No. 919,922; Apr. 27; Sp. p. 6345; Gaz. vol. 141; p. 1084.

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- McMurtrie, A., assignor to Thomas & Betts Company, New York, N. Y. Connective device for electrical conduits and the like. No. 916,931; Mar. 30; Sp. p. 6811; Gaz. vol. 140; p. 1178.
- McMurtrie, A., assignor to Thomas & Betts Company, New York, N. Y. Hooded connector for electrical conduits and the like. No. 916,932; Mar. 30; Sp. p. 6614; Gaz. vol. 140; p. 1179.
- McMurtrie, A., assignor to Thomas & Betts Company, New York, N. Y. Hanger for electric outlet-boxes. No. 935,319; Sept. 28; Sp. p. 4716; Gaz. vol. 146; p. 836.
- McMurtrie, W., New York, N. Y. Purification and clarification of water. No. 913,034; Feb. 23; Sp. p. 4144; Gaz. vol. 139; p. 753.
- McMyers, R., New York, N. Y. Explosive-engine. No. 914,864; Mar. 9; Sp. p. 2547; Gaz. vol. 140; p. 425.
- McMyer Manufacturing Company. (See Lovell, F. W., assignor.)
- McMyer Manufacturing Company. (See Ouchterlony, J. B. H., assignor.)
- McNab, A. J., assignor of one-half to W. H. Aldridge, Trail, British Columbia, Canada. Treating electrolytic slimes for the recovery of metals therefrom. No. 903,603; Jan. 5; Sp. p. 363; Gaz. vol. 138; p. 59.
- McNally, H., Richland Center, Wis. Folding pocket-hatchet. No. 942,342; Dec. 7; Sp. p. 662; Gaz. vol. 149; p. 106.
- McNally, J. J., Chicago, Ill. Soap-holder. No. 915,876; Mar. 23; Sp. p. 4570; Gaz. vol. 140; p. 811.
- McNally, P. T., Mandan, N. D. Mechanical movement. No. 922,316; May 18; Sp. p. 4548; Gaz. vol. 142; p. 790.
- McNamara, C. E., Duluth, Minn. Margin-indicating device for type-writing machines. No. 921,726; May 18; Sp. p. 3366; Gaz. vol. 142; p. 599.
- McNamara, C. J., assignor of three-fifths to G. Gross, Philadelphia, Pa. Dyeing-machine. No. 918,767; Apr. 20; Sp. p. 3752; Gaz. vol. 141; p. 666.
- McNamara, J., Pittsburgh, Pa. Rail-joint. No. 929,468; July 27; Sp. p. 5726; Gaz. vol. 144; p. 1005.
- McNamara, J., Montreal, Quebec, Canada, assignor to Mergenthaler Linotype Company. Line-casting machine. No. 920,617; May 4; Sp. p. 1060; Gaz. vol. 142; p. 172.
- McNamara, J., Montreal, Quebec, Canada, assignor to Mergenthaler Linotype Company. Line-casting machine. No. 939,291; Nov. 9; Sp. p. 1836; Gaz. vol. 148; p. 316.
- McNamara, J. A., Burlington, Wis. Concrete-molding machine. No. 935,678; Oct. 5; Sp. p. 115; Gaz. vol. 147; p. 19.
- McNamara, J. C., Troy, N. Y. Avning-support and lock therefor. No. 920,618; May 4; Sp. p. 1061; Gaz. vol. 142; p. 617.
- McNamara, T. E., Springfield, Mass. Molding-machine. No. 928,786; July 20; Sp. p. 4309; Gaz. vol. 144; p. 752.
- McNatt, W. P., Anderson, Ind. Type-writer's copy-holder. No. 919,923; Apr. 27; Sp. p. 6345; Gaz. vol. 141; p. 1084.
- McNaught, I. S., Chicago, Ill. Adjustable track for sliding doors. No. 921,440; May 11; Sp. p. 2776; Gaz. vol. 142; p. 477.
- McNaughton, S. J., Westboro, Mo. Corn-gatherer. No. 910,566; Jan. 26; Sp. p. 4381; Gaz. vol. 138; p. 803.
- McNaughton, T. (See Jackson and Vizenis, assignors.)
- McNaughton, T. (See Vizenis, H. C., assignor.)
- McNaughton, W. W., Newark, N. J. Catapult. No. 922,804; May 25; Sp. p. 5573; Gaz. vol. 142; p. 979.
- McNaughton, W. W., Newark, N. J. Door-holder. No. 934,747; Sept. 21; Sp. p. 3559; Gaz. vol. 146; p. 621.
- McNaull, W. D., Toledo, Ohio. Vehicle-tire. No. 914,599; Mar. 9; Sp. p. 1984; Gaz. vol. 140; p. 338.
- McNeely, T. W., et al. (See O'Laughlin, M. C., assignor.)
- McNeer, V. (See Shaw and Johnson, assignors.)
- McNees, J. C., West Liberty, Pa. Vehicle-brake. No. 910,946; Jan. 26; Sp. p. 5126; Gaz. vol. 138; p. 923.
- McNeis, C. (See McNeil, J. and C.)
- McNeil, C., assignor to Union Special Machine Company, Chicago, Ill. Folding and guiding mechanism for sewing-machines. No. 929,692; Aug. 3; Sp. p. 104; Gaz. vol. 145; p. 19.
- McNeil, D. W., assignor to John Douglas Company, Cincinnati, Ohio. Seat-actuated flushing-valve. No. 909,928; Jan. 19; Sp. p. 3026; Gaz. vol. 138; p. 560.
- McNeil, D. W., assignor to John Douglas Company, Cincinnati, Ohio. Flush-valve. No. 912,697; Feb. 16; Sp. p. 3253; Gaz. vol. 139; p. 583.
- McNeil, D. W., assignor to John Douglas Company, Cincinnati, Ohio. Washbasin. No. 912,598; Feb. 16; Sp. p. 3255; Gaz. vol. 139; p. 584.
- McNeil, D. W., assignor to John Douglas Company, Cincinnati, Ohio. Flushing-valve. No. 912,599; Feb. 16; Sp. p. 3257; Gaz. vol. 139; p. 584.
- McNeil, D. W., assignor to John Douglas Company, Cincinnati, Ohio. Non-scalding shower-bath cock. No. 942,405; Dec. 7; Sp. p. 780; Gaz. vol. 149; p. 126.
- McNeil, E. E., Boston, Mass. Match-box. No. 911,671; Feb. 9; Sp. p. 1291; Gaz. vol. 139; p. 241.
- McNeil, G., et al. (See Jeffery, R. B., assignor.)
- McNeil, J. and C., Govan, Scotland. Sugar-cane mill. No. 915,036; Mar. 9; Sp. p. 2836; Gaz. vol. 140; p. 480.
- McNeil, J. and C., Govan, Scotland. Figured roll for sugar-cane mills. No. 926,677; June 29; Sp. p. 7431; Gaz. vol. 143; p. 1311.
- McNeil, F., Binghamton, N. Y. Window-shade bracket and curtain-pole holder. No. 915,208; Mar. 16; Sp. p. 3231; Gaz. vol. 140; p. 564.
- McNeill, P. H., Olympia, Wash. Flushing mechanism. No. 929,693; Aug. 3; Sp. p. 103; Gaz. vol. 145; p. 20.
- McNeill, R., New York, N. Y. Incandescent lamp. No. 923,797; June 1; Sp. p. 1567; Gaz. vol. 143; p. 234.
- McNellis, C., Chicago, Ill. Coupling for the inflating-valves of pneumatic tires. No. 935,048; Sept. 28; Sp. p. 4167; Gaz. vol. 146; p. 747.
- McNew, C. S., Pine Bluff, Ark. Grass-clipper. No. 929,239; July 27; Sp. p. 5247; Gaz. vol. 144; p. 930.
- McNiel, D. T., assignor of one-half to P. C. McNiel, Detroit, Mich. Shaft-coupling. No. 915,370; Mar. 16; Sp. p. 3529; Gaz. vol. 140; p. 616.
- McNiel, P. C. (See McNiel, D. T., assignor.)
- McNulty, A., Chicago, Ill. Oven screen and mat. No. 913,148; Feb. 23; Sp. p. 4383; Gaz. vol. 139; p. 792.
- McNulty, A., Chicago, Ill. Stove. No. 913,149; Feb. 23; Sp. p. 4384; Gaz. vol. 139; p. 792.
- McNulty, A., Littlerock, Wash. Shoe or socket for loggers' falling-boards. No. 913,423; Feb. 23; Sp. p. 4944; Gaz. vol. 139; p. 884.
- McNutt, J. H., assignor of one-half to J. Cassidy, Toledo, Ohio. Land-anchor. No. 912,018; Feb. 9; Sp. p. 2040; Gaz. vol. 139; p. 355.
- McNutt, W. H., New York, N. Y. Non-explosive closure and spout. No. 929,974; Aug. 3; Sp. p. 742; Gaz. vol. 145; p. 119.
- McNutt, W. H., assignor to W. C. Giles, trustee, New York, N. Y. Locked strainer-tube. No. 929,973; Aug. 3; Sp. p. 740; Gaz. vol. 145; p. 118.
- McOmber, M. D., Ovid, N. Y. Pen-ejector. No. 925,374; June 15; Sp. p. 4782; Gaz. vol. 143; p. 817.
- McPhail, J., assignor of one-third to W. J. Burke and one-third to H. R. Nelson, Carteret, N. J. Electrolytic cell. No. 929,469; July 27; Sp. p. 5727; Gaz. vol. 144; p. 1005.
- McPhee, C. D., Arnprior, and J. Gillies, Braeside, Ontario, Canada. Electric time-fuse. No. 939,155; Nov. 2; Sp. p. 1511; Gaz. vol. 148; p. 245.
- McPherson, A., et al. (See Price, H. W., assignor.)
- McPherson, F. G., assignor of one-half to T. C. McPherson, Beaver Falls, Pa. Resilient sled. No. 943,448; Dec. 14; Sp. p. 3044; Gaz. vol. 149; p. 511.
- McPherson, I. M., Yatesboro, Pa. Miner's cap. No. 931,463; Aug. 17; Sp. p. 3885; Gaz. vol. 145; p. 670.
- McPherson, J. R., Detroit, Mich. Lavatory. No. 932,054; Aug. 24; Sp. p. 5178; Gaz. vol. 145; p. 883.
- McPherson, J. D. (See Strong and McPherson.)
- McPherson, J. R., Boston, Mass. Starting device for automobiles. No. 925,216; June 15; Sp. p. 4512; Gaz. vol. 143; p. 769.
- McPherson, J. R., Boston, Mass. Tower for fire-extinguishing apparatus. No. 934,748; Sept. 21; Sp. p. 3560; Gaz. vol. 146; p. 621.
- McPherson, T. A., and J. E. Gamble, Martins Ferry, Ohio. Swing-support. No. 921,441; May 11; Sp. p. 2778; Gaz. vol. 142; p. 477.
- McPherson, T. C. (See McPherson, F. G., assignor.)
- McPherson, T. C., assignor of one-half to Keystone Wire Matting Co., Beaver Falls, Pa. Mat. No. 912,600; Feb. 16; Sp. p. 3259; Gaz. vol. 139; p. 585.
- McPherson, W. D., Chicago, Ill. Automatic air and gas valve for cars. No. 909,320; Jan. 12; Sp. p. 1815; Gaz. vol. 138; p. 325.
- McPhetridge, W. T., Bean Blossom township, Monroe county, assignor of one-half to O. W. Smith, Baker township, Ind. Universal angle-indicator for portable machinery. No. 944,810; Dec. 28; Sp. p. 5999; Gaz. vol. 149; p. 1033.
- McPhillips, C. B., Suffern, assignor to E. H. Fallows, New York, N. Y. Brake-shoe. No. 942,343; Dec. 7; Sp. p. 665; Gaz. vol. 149; p. 106.
- McPhillips, T., et al. (See Polakoskey, F. V., assignor.)
- McQuaide, A. J., Canton, Ohio. Button-set for pneumatic hammers. No. 919,924; Apr. 27; Sp. p. 6347; Gaz. vol. 141; p. 1085.
- McQuarrie, J. L., Oak Park, assignor to Western Electric Company, Chicago, Ill. Circuit for coin-collectors. No. 923,877; June 8; Sp. p. 1744; Gaz. vol. 143; p. 290.
- McQuarrie, J. L., Oak Park, assignor to Western Electric Company, Chicago, Ill. Telephone-exchange system. No. 923,993; June 8; Sp. p. 1971; Gaz. vol. 143; p. 327.
- McQuarrie, J. L., Oak Park, assignor to Western Electric Company, Chicago, Ill. Private branch intercommunicating telephone system. No. 931,138; Aug. 17; Sp. p. 3192; Gaz. vol. 145; p. 558.
- McQuarrie, J. L., Oak Park, assignor to Western Electric Company, Chicago, Ill. Telephone-exchange switchboard apparatus. No. 931,330; Aug. 17; Sp. p. 3619; Gaz. vol. 145; p. 624.
- McQuarrie, J. L., Oak Park, assignor to Western Electric Company, Chicago, Ill. Telephone-key. No. 931,331; Aug. 17; Sp. p. 3622; Gaz. vol. 145; p. 625.
- McQuate, T. C. (See Lucas, H. E., assignor.)
- McQueen, F. R., Minneapolis, Minn. Controlling device for elevator-bin slides. No. 923,291; June 1; Sp. p. 415; Gaz. vol. 143; p. 59.



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- McQueen, J. W., Detroit, Mich. Door-hanger. No. 913,150; Feb. 23; Sp. p. 4385; Gaz. vol. 139; p. 792.
- McQueen, U. G., New Rochelle, N. Y., assignor to Grant Pulley and Hardware Company. Sash-chain guide. No. 912,401; Feb. 16; Sp. p. 2851; Gaz. vol. 139; p. 517.
- McQuern, J. N., assignor of one-half to J. E. Frailey, Canton, Ohio. Facing-brick. No. 938,430; Oct. 26; Sp. p. 5954; Gaz. vol. 147; p. 1009.
- McQuerry, J. C. (See Everett and McQuerry.)
- McQuien, W. R., *et al.* (See Rose, J. C., assignor.)
- McQuillan, T. R., Guymon, Okla. Picture-vending machine. No. 937,949; Oct. 26; Sp. p. 4897; Gaz. vol. 147; p. 846.
- McQuillen, W. P., Philadelphia, Pa. Nether garment. No. 943,366; Dec. 14; Sp. p. 2869; Gaz. vol. 149; p. 483.
- McQuitty, L. E., Mulvane, Kans. Corn-planter. No. 939,853; Nov. 9; Sp. p. 3084; Gaz. vol. 148; p. 509.
- McQuoid, C. D. T., Terry, Mont. Sheep-clipper. No. 926,130; June 29; Sp. p. 6367; Gaz. vol. 143; p. 1130.
- McQuown, C., Detroit, Mich. Rotary engine. No. 931,077; Aug. 17; Sp. p. 3068; Gaz. vol. 145; p. 537.
- McRae, W., Eastman, Ga. Mixing-machine. No. 941,267; Nov. 23; Sp. p. 6226; Gaz. vol. 148; p. 1043.
- McRae, W. T., Philadelphia, Pa., assignor to J. D. Rishell, trustee, New York, N. Y. Box-machine. No. 935,534; Sept. 28; Sp. p. 5153; Gaz. vol. 146; p. 905.
- McRae, W. T., Philadelphia, Pa., assignor to J. D. Rishell, trustee, New York, N. Y. Box-machine. No. 935,535; Sept. 28; Sp. p. 5158; Gaz. vol. 146; p. 906.
- McReynolds, E. A., Stanford, assignor of one-fourth to A. C. Gingerich, Danvers, Ill. Cotton-chopping machine. No. 912,875; Feb. 16; Sp. p. 3836; Gaz. vol. 139; p. 676.
- McRoberts, J. E., Woonsocket, S. D. Ash-pan cleaner. No. 923,067; May 25; Sp. p. 6135; Gaz. vol. 142; p. 1064.
- McSweeney, J. (See Freely, J. S. E., assignor.)
- McTammany, J., Stamford, Conn. Mechanical musical instrument. No. 908,798; Jan. 5; Sp. p. 763; Gaz. vol. 138; p. 120.
- McTammany, J., Providence, R. I. Mechanical musical instrument. No. 916,933; Mar. 30; Sp. p. 6617; Gaz. vol. 140; p. 1179.
- McTear, B. F., Rainhill, England. Manufacture of tubes or hollow bodies. No. 920,168; May 4; Sp. p. 146; Gaz. vol. 142; p. 23.
- McTear, B. F., Lea Green, via Rainhill, England. Manufacture of salt. No. 933,572; Sept. 7; Sp. p. 1246; Gaz. vol. 146; p. 184.
- McTimmonds, J. P., Falls City, Oreg. Sacker. No. 936,149; Oct. 5; Sp. p. 1157; Gaz. vol. 147; p. 175.
- McVey, J. C., Kansas City, Mo. Lawn-swing. No. 908,689; Jan. 5; Sp. p. 548; Gaz. vol. 138; p. 85.
- McVey, T. J., Syracuse, N. Y. Belt-shifter. No. 924,624; June 8; Sp. p. 3287; Gaz. vol. 143; p. 536.
- McVicker, J. A., New York, N. Y. Vehicle-signal. No. 935,855; Oct. 5; Sp. p. 545; Gaz. vol. 147; p. 78.
- McVicker, W. J., Alma, assignor to Alma Manufacturing Company, Detroit, Mich. Mechanism for controlling the operation of internal-combustion engines. No. 927,582; July 13; Sp. p. 1798; Gaz. vol. 144; p. 321.
- McVitie, R., and A. Grant, Edinburgh, Scotland. Apparatus for depositing or dropping jam, sugar, or the like on or in biscuits and like confections. No. 921,874; May 18; Sp. p. 3678; Gaz. vol. 142; p. 648.
- McVoy, C. L., Pensacola, Fla. Boiler-plug. No. 944,205; Dec. 21; Sp. p. 4653; Gaz. vol. 149; p. 797.
- McVoy, M., Jr. (See Shattuck, W. P., assignor.)
- McVoy, V. P., Mobile, Ala. Hose-coupling. No. 939,434; Nov. 9; Sp. p. 2200; Gaz. vol. 148; p. 366.
- McVoy, V. P., Mobile, Ala. Hose-coupling. No. 939,435; Nov. 9; Sp. p. 2202; Gaz. vol. 148; p. 366.
- McVoy, V. P., Mobile, Ala. Hose-coupling. No. 939,436; Nov. 9; Sp. p. 2205; Gaz. vol. 148; p. 366.
- McVoy, V. P., Mobile, Ala. Hose-coupling. No. 939,437; Nov. 9; Sp. p. 2209; Gaz. vol. 148; p. 367.
- McVoy, V. P., Mobile, Ala. Boiler-feeder. No. 944,574; Dec. 28; Sp. p. 5492; Gaz. vol. 149; p. 953.
- McWane, H. E., assignor to Lynchburg Foundry Co., Lynchburg, Va. Meter-box. No. 911,256; Feb. 2; Sp. p. 466; Gaz. vol. 139; p. 80.
- McWatters, T., Hawkins Station, Pa. Purifying coal-gas and collecting by-products. No. 926,352; June 29; Sp. p. 6838; Gaz. vol. 143; p. 1203.
- McWethy, C. E. (See McWethy, W. C., assignor.)
- McWethy, W. C., Ashton, assignor of one-half to C. E. McWethy, Dixon, Ill. Railway-tie. No. 935,679; Oct. 5; Sp. p. 122; Gaz. vol. 147; p. 20.
- McWhirter, J. S., New York, N. Y., assignor to J. G. Brill Company, Philadelphia, Pa. Car-brake. No. 919,746; Apr. 27; Sp. p. 5965; Gaz. vol. 141; p. 1025.
- McWhirter, J. S., New York, N. Y., assignor to J. G. Brill Company, Philadelphia, Pa. Truck-brake. No. 919,747; Apr. 27; Sp. p. 5966; Gaz. vol. 141; p. 1025.
- McWhirter, W. H., Pontotoc, Miss. Fence-post. No. 913,907; Mar. 2; Sp. p. 510; Gaz. vol. 140; p. 82.
- McWhorter, A., Riverton, N. J. Potato-planter. No. 925,826; June 22; Sp. p. 5749; Gaz. vol. 143; p. 995.
- McWhorter, A. D., Memphis, Tenn., assignor to Tomlinson Coupler Company, Denver, Colo. Draw-bar carrier. No. 912,876; Feb. 16; Sp. p. 3839; Gaz. vol. 139; p. 676.
- McWhorter, F. S., assignor to McWhorter Manufacturing Company, Riverton, N. J. Cotter-key. No. 919,925; Apr. 27; Sp. p. 6348; Gaz. vol. 141; p. 1085.
- McWhorter Manufacturing Company. (See McWhorter, F. S., assignor.)
- McWhorter, R. (See Chapman, F. M., assignor.)
- McWilliams, A. C., Chicago, Ill. Panel-board for electrical-power distribution. No. 920,490; May 4; Sp. p. 793; Gaz. vol. 142; p. 129.
- McWilliams, A. C., Chicago, Ill. Metering panel-board. No. 931,464; Aug. 17; Sp. p. 3886; Gaz. vol. 145; p. 671.
- McWilliams, A. C., Chicago, Ill. Metering panel-board. No. 936,252; Oct. 5; Sp. p. 1340; Gaz. vol. 147; p. 206.
- McWilliams, H. J., Martins Ferry, Ohio. Condiment-holder. No. 909,202; Jan. 12; Sp. p. 1592; Gaz. vol. 138; p. 286.
- McWilliams, J., Chicago, Ill. Band-resaw and double jointer. No. 914,746; Mar. 9; Sp. p. 2308; Gaz. vol. 140; p. 386.
- Meacham, D. W., Charlotte, N. C. War-car. No. 908,793; Jan. 5; Sp. p. 755; Gaz. vol. 138; p. 119.
- Meacham, W. M., Oak Park, Ill. Clamp for electrical and other fixtures. No. 913,024; Feb. 23; Sp. p. 4129; Gaz. vol. 139; p. 750.
- Mead, B. S., Dover, Okla. Attachment for barbers' chairs. No. 937,625; Oct. 19; Sp. p. 4226; Gaz. vol. 147; p. 720.
- Mead, C. E., Dayton, Ohio. Gas-engine. No. 921,264; May 11; Sp. p. 2385; Gaz. vol. 142; p. 418.
- Mead, E. C., Elkhart, Ind. Step-ladder. No. 922,306; May 18; Sp. p. 4535; Gaz. vol. 142; p. 788.
- Mead, G. A., Mansfield, Ohio. Manufacture of rail-bonds. No. 930,674; Aug. 10; Sp. p. 2159; Gaz. vol. 145; p. 377.
- Mead, G. A., Mansfield, Ohio. Manufacture of rail-bonds. No. 943,438; Dec. 14; Sp. p. 3007; Gaz. vol. 149; p. 507.
- Mead, H. G., assignor to National Veneer Package Company, St. Louis, Mo. Soldering device. No. 944,805; Dec. 28; Sp. p. 5989; Gaz. vol. 149; p. 1031.
- Mead Johnson & Company. (See Barr, A. D., assignor.)
- Mead, P. J., Morenci, Mich. Brick-machine. No. 940,177; Nov. 16; Sp. p. 3836; Gaz. vol. 148; p. 651.
- Mead, W. C., Maldon, Victoria, Australia. Handle of cycles. No. 909,833; Jan. 12; Sp. p. 2423; Gaz. vol. 138; p. 429.
- Meade, H. B., Cleveland, Ohio. Coin-controlled lock. No. 928,613; July 20; Sp. p. 3978; Gaz. vol. 144; p. 694.
- Meade, J. (See Sydemann and Meade.)
- Meade, R. K., Nazareth, assignor of one-half to J. W. Fuller, Jr., Catasauqua, Pa. Drier. No. 937,255; Oct. 19; Sp. p. 3459; Gaz. vol. 147; p. 597.
- Meader, H. J., Bradford, Mass. Paper-machine. No. 923,870; June 8; Sp. p. 1729; Gaz. vol. 143; p. 288.
- Meader, R. F., Solon, Me. Harness-dressing. No. 943,754; Dec. 21; Sp. p. 3714; Gaz. vol. 149; p. 646.
- Meadows, F., assignor of one-half to H. B. Cornwell, Berkeley, Cal. Electric flash-light attachment. No. 918,181; Apr. 13; Sp. p. 2466; Gaz. vol. 141; p. 442.
- Meadows, G., Canton, Mass. Loaded cartridge. No. 929,866; Aug. 3; Sp. p. 514; Gaz. vol. 145; p. 83.
- Meadows, G. C., Ashland, Ky. Smoke-bell hanger. No. 920,599; May 4; Sp. p. 1022; Gaz. vol. 142; p. 166.
- Meadows, S. C. (See Meadows, W. A. and S. C.)
- Meadows, W. A. and S. C., Liverpool, England. Road-surface preparation or composition. No. 924,086; June 8; Sp. p. 2132; Gaz. vol. 143; p. 355.
- Meahl, P. J., Bayonne, N. J. Paper-feed mechanism. No. 943,261; Dec. 14; Sp. p. 2642; Gaz. vol. 149; p. 447.
- Meaker Co. (See Beneker, J. C., assignor.)
- Meaker Company. (See Meaker, G. L., assignor.)
- Meaker, G. L., assignor to Meaker Company, Chicago, Ill. Apparatus for electroplating. No. 913,747; Mar. 2; Sp. p. 147; Gaz. vol. 140; p. 25.
- Meaker, J. W., Detroit, Mich. Salt-shaker. No. 913,025; Feb. 23; Sp. p. 4130; Gaz. vol. 139; p. 750.
- Meaker, J. W., Detroit, Mich. Salt-shaker. No. 913,026; Feb. 23; Sp. p. 4132; Gaz. vol. 139; p. 750.
- Meaker, J. W., Detroit, Mich. Salt-shaker. No. 913,027; Feb. 23; Sp. p. 4134; Gaz. vol. 139; p. 751.
- Meaker, J. W., Detroit, Mich. Condiment-holder. No. 913,028; Feb. 23; Sp. p. 4136; Gaz. vol. 139; p. 751.
- Meaker, J. W., Detroit, Mich. Condiment-holder. No. 913,029; Feb. 23; Sp. p. 4137; Gaz. vol. 139; p. 751.
- Meaker, J. W., Jr., Chicago, Ill. Pressure-binder for loose sheets. No. 924,170; June 8; Sp. p. 2348; Gaz. vol. 143; p. 384.
- Mealus, R. L., Barneveld, assignor of one-half to G. P. Dodge, Utica, N. Y. Hay-loader. No. 911,665; Feb. 9; Sp. p. 1280; Gaz. vol. 139; p. 240.
- Meaney, P., Philadelphia, Pa. Base-ball score-card. No. 921,863; May 18; Sp. p. 3660; Gaz. vol. 142; p. 645.
- Means, J., Boston, Mass. Signaling system. No. 922,709; May 25; Sp. p. 5382; Gaz. vol. 142; p. 949.

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- Means, J., Boston, Mass. Apparatus for launching flying-machines. No. 922,711; May 25; Sp. p. 5385; Gaz. vol. 142; p. 949.
- Means, J., Boston, Mass. Apparatus for launching flying-machines. No. 922,712; May 25; Sp. p. 5387; Gaz. vol. 142; p. 949.
- Means, J., Boston, Mass. Device for launching flying-machines. No. 922,713; May 25; Sp. p. 5389; Gaz. vol. 142; p. 950.
- Means, J., Boston, Mass. Emergency apparatus for controlling flying-machines. No. 935,766; Oct. 5; Sp. p. 315; Gaz. vol. 147; p. 49.
- Means, J., Boston, Mass. Aerial navigation. No. 943,120; Dec. 14; Sp. p. 2362; Gaz. vol. 149; p. 401.
- Mears, J. A., Jr., New York, and C. Ellis, Larchmont, assignors to N. L. Foster, trustee, New Rochelle, N. Y. Electrical heater. No. 916,348; Mar. 23; Sp. p. 5442; Gaz. vol. 140; p. 966.
- Mears, W., assignor of one-half to M. E. Williams and one-half to W. A. Mears, Cleveland, Ohio. Signal system. No. 937,837; Oct. 26; Sp. p. 4664; Gaz. vol. 147; p. 808.
- Mears, W. A., *et al.* (See Mears, W., assignor.)
- Meehan, A., Edinburg, N. D. Gang-plow. No. 918,182; Apr. 13; Sp. p. 2467; Gaz. vol. 141; p. 442.
- Mechanical & Electrical Appliances Company. (See Mason, T. C., assignor.)
- Mechanical and Electrical Appliance Company. (See McClay, R. C., assignor.)
- Mechling, W. W., Munhall, and J. E. Smith, Homestead, Pa. Metal railway-tie. No. 928,467; July 20; Sp. p. 3683; Gaz. vol. 144; p. 648.
- Mechling, W. W., Munhall, and J. E. Smith, Homestead, Pa. Metal railway-tie. No. 928,529; July 20; Sp. p. 3806; Gaz. vol. 144; p. 667.
- Mecke, P., Stettin, Germany. Making cement, mortar, and concrete water-tight. No. 929,152; July 27; Sp. p. 5076; Gaz. vol. 144; p. 902.
- Meckelburg, E., Charlottenburg, assignor to Siemens-Schuckert-Werke G. m. b. H., Berlin, Germany. Means for regulating the speed of prime movers and motors. No. 922,175; May 18; Sp. p. 4267; Gaz. vol. 142; p. 745.
- Mecredy, J., and D. M. A. G. Hawes, London, England. Dedicating apparatus. No. 915,303; Mar. 16; Sp. p. 3405; Gaz. vol. 140; p. 594.
- Mecredy, J., and D. M. A. G. Hawes, London, England. Dedicating apparatus. No. 924,561; June 8; Sp. p. 3146; Gaz. vol. 143; p. 514.
- Medaris, O., Boise, Idaho. Ore-separator. No. 921,427; May 11; Sp. p. 2743; Gaz. vol. 142; p. 472.
- Medart, E. J., executor. (See Medart, F.)
- Medart, F., deceased; E. J. Medart, executor, assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Caster for gymnasium apparatus. No. 940,606; Nov. 16; Sp. p. 4785; Gaz. vol. 148; p. 797.
- Medart, P. S., assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Exercising apparatus. No. 931,699; Aug. 17; Sp. p. 4378; Gaz. vol. 145; p. 744.
- Medbery, C. C., New York, N. Y. Universal ore-treating furnace. No. 912,394; Feb. 16; Sp. p. 2832; Gaz. vol. 139; p. 515.
- Medbery, C. C., New York, N. Y. Ore-treating furnace. No. 922,609; May 25; Sp. p. 5174; Gaz. vol. 142; p. 916.
- Medford, P. E. (See White and Medford.)
- Medhurst, F. H., *et al.* (See Davis, A. E., assignor.)
- Medland, J. E., and L. E. Capps, Seattle, Wash. Window-covering. No. 932,627; Aug. 31; Sp. p. 6359; Gaz. vol. 145; p. 1097.
- Medley, E. A. (See Fowler and Medley.)
- Medovarski, S., Cleveland, Ohio. Hose-coupling. No. 915,985; Mar. 23; Sp. p. 4785; Gaz. vol. 140; p. 846.
- Mee, C. P., Los Angeles, Cal. Cheese-holding board. No. 911,145; Feb. 2; Sp. p. 244; Gaz. vol. 139; p. 43.
- Meech, A. H., Chatham, N. Y. Compound air-compressor. No. 919,909; Apr. 27; Sp. p. 6318; Gaz. vol. 141; p. 1080.
- Meehan, D. C., Columbus, Ohio. Protecting wood. No. 912,013; Feb. 9; Sp. p. 2034; Gaz. vol. 139; p. 354.
- Meehan, J. J., Denver, Colo. Safety-razor. No. 919,910; Apr. 27; Sp. p. 6322; Gaz. vol. 141; p. 1080.
- Meehan, J. J., Denver, Colo. Razor-sharpening device. No. 942,731; Dec. 7; Sp. p. 1448; Gaz. vol. 149; p. 237.
- Meehan, W. A. (See Farrell and Meehan.)
- Meek, A. S., Washington, Iowa, assignor of one-half to S. P. White, Chicago Heights, Ill. Window-sash ventilator. No. 910,934; Jan. 26; Sp. p. 5100; Gaz. vol. 138; p. 919.
- Meek Company. (See Kristofek, F. J., assignor.)
- Meek, J. E., New York, N. Y., assignor to H. W. Johns-Manville Company. Air-brake piston. No. 924,087; June 8; Sp. p. 2133; Gaz. vol. 143; p. 356.
- Meek, J. W., assignor of one-half to D. B. Thomas, London, England. Daylight developing apparatus. No. 927,155; July 6; Sp. p. 943; Gaz. vol. 144; p. 153.
- Meek, R. B. (See Wells and Meek.)
- Meek, R. H. (See Krieger, A. W., assignor.)
- Meek, W. M., Seattle, Wash., assignor of one-half to I. M. Lamberton, Mountain Home, Idaho. Wrench. No. 916,468; Mar. 30; Sp. p. 5716; Gaz. vol. 140; p. 1031.
- Meeker, E. E., and C. W. Carr, Jr., Sayreville, N. J. Cutting-off apparatus. No. 922,795; May 25; Sp. p. 5553; Gaz. vol. 142; p. 976.
- Meeker, W. P., Maplewood, N. J. Forming glass tiles. No. 915,783; Mar. 23; Sp. p. 4405; Gaz. vol. 140; p. 782.
- Meeker, W. P., Maplewood, N. J. Tile press-mold. No. 925,782; June 22; Sp. p. 5650; Gaz. vol. 143; p. 980.
- Meeker, W. P., Maplewood, N. J. Block-tile machine. No. 941,792; Nov. 30; Sp. p. 7351; Gaz. vol. 148; p. 1239.
- Meeker, W. P., Newark, N. J. Tile and tile-faced surface. No. 943,950; Dec. 21; Sp. p. 4122; Gaz. vol. 149; p. 715.
- Meeker, W. P., Maplewood, and M. S. Drake, Newark, N. J. Machine for molding tile-faced blocks. No. 940,983; Nov. 23; Sp. p. 5599; Gaz. vol. 148; p. 948.
- Meekren, R. J., *et al.* (See Weagant, R. A., assignor.)
- Meeks, A. L. (See Malcom, J. F., assignor.)
- Meeks, H. J., Orderville, and R. S. Harris, Leeds, Utah. Animal-hopple. No. 914,059; Mar. 2; Sp. p. 871; Gaz. vol. 140; p. 135.
- Mees, E. F., Milwaukee, Wis. Roller-skate. No. 918,575; Apr. 20; Sp. p. 3294; Gaz. vol. 141; p. 599.
- Mees, G., Dusseldorf, Germany. Valve-motion for gas-motors. No. 921,864; May 18; Sp. p. 3662; Gaz. vol. 142; p. 645.
- Mefford, S. L., Dover, Ky. Door stop and retainer. No. 913,748; Mar. 2; Sp. p. 154; Gaz. vol. 140; p. 26.
- Mehew, I., *et al.* (See Turner, D., assignor.)
- Mehl, H. (See Sohni and Mehl.)
- Mehl, W. B., Waltham, Mass., assignor to E. Howard Watch Company, Riverside, N. J. Watch. No. 922,013; May 18; Sp. p. 3968; Gaz. vol. 142; p. 693.
- Mehle, M., assignor of one-half to Deßman, Laibach, Carniola, Austria-Hungary. Machine for making conical or three-cornered bags of paper or like material. No. 917,094; Apr. 6; Sp. p. 271; Gaz. vol. 141; p. 49.
- Mehler, W., New York, N. Y. Garment-display device. No. 912,145; Feb. 9; Sp. p. 2282; Gaz. vol. 139; p. 395.
- Mehler, W., New York, N. Y. Garment-display device. No. 924,171; June 8; Sp. p. 2352; Gaz. vol. 143; p. 385.
- Mehlhorn, A., Dietrichsdorf, near Kiel, Germany. Steam-actuated valve. No. 914,152; Mar. 2; Sp. p. 1055; Gaz. vol. 140; p. 167.
- Mehner, H., Friedenau, near Berlin, Germany. Melting and working quartz glass. No. 931,945; Aug. 24; Sp. p. 4935; Gaz. vol. 145; p. 847.
- Meier, A. G., St. Louis, Mo., assignor to Duplex Adding Machine Company. Calculator. No. 914,741; Mar. 9; Sp. p. 2299; Gaz. vol. 140; p. 384.
- Meier, A. G., assignor to Duplex Adding Machine Company, St. Louis, Mo. Calculating-machine. No. 929,317; July 27; Sp. p. 5447; Gaz. vol. 144; p. 958.
- Meier, A. J., Glendale, Mo. Lining for storage-battery jars. No. 941,720; Nov. 30; Sp. p. 7203; Gaz. vol. 148; p. 1214.
- Meier, A. J., Los Angeles, Cal. Sanitary carpet-cleaner. No. 935,919; Oct. 5; Sp. p. 685; Gaz. vol. 147; p. 100.
- Meier, A. J., assignor to Duplex Adding Machine Company, St. Louis, Mo. Calculating-machine. No. 924,256; June 8; Sp. p. 2541; Gaz. vol. 143; p. 414.
- Meier, A. J., assignor to Duplex Adding Machine Company, St. Louis, Mo. Calculating-machine. No. 928,873; July 20; Sp. p. 4489; Gaz. vol. 144; p. 782.
- Meier, C., and G. Langen, assignors to Cincinnati Planer Company, Cincinnati, Ohio. Side-head tool-holder for metal-planers. No. 937,707; Oct. 19; Sp. p. 4392; Gaz. vol. 147; p. 746.
- Meier, F. A., Norfolk Downs, assignor, by mesne assignments, to National Wafer Company, Boston, Mass. Cutter. No. 928,681; July 20; Sp. p. 4124; Gaz. vol. 144; p. 718.
- Meier, G. J., Buffalo, N. Y. Mail-bag catcher or transferer. No. 919,911; Apr. 27; Sp. p. 6324; Gaz. vol. 141; p. 1080.
- Meierhofer, A. (See Reed, G. J., assignor.)
- Meierhofer, A. (See Reed and Meierhofer.)
- Meigs, J. F., and R. P. Stout, assignors to Bethlehem Steel Company, South Bethlehem, Pa. Rammer for guns. No. 925,819; June 22; Sp. p. 5731; Gaz. vol. 143; p. 993.
- Meigs, J. F., and S. A. S. Hammar, assignors to Bethlehem Steel Company, South Bethlehem, Pa. Training and firing mechanism for guns. No. 927,260; July 6; Sp. p. 1152; Gaz. vol. 144; p. 188.
- Meik, J. H., assignor to A. M. Griffin, Fredonia, Kans. Bale-tie machine. No. 915,619; Mar. 16; Sp. p. 4042; Gaz. vol. 140; p. 699.
- Meikle, L. S., Colon, Panama. Fireman's equipment. No. 932,880; Aug. 31; Sp. p. 6869; Gaz. vol. 145; p. 1179.
- Meiklejohn, A. B., and J. R. Villars, Butte, Mont. Ore-screen. No. 935,216; Sept. 28; Sp. p. 4509; Gaz. vol. 146; p. 802.
- Mellicke, C. A., Hanley, Saskatchewan, Canada. Calculating-machine. No. 914,439; Mar. 9; Sp. p. 1663; Gaz. vol. 140; p. 284.
- Mellicke, C. A., Hanley, Saskatchewan, Canada. Calculating-machine. No. 943,984; Dec. 21; Sp. p. 4194; Gaz. vol. 149; p. 725.
- Meilink Manufacturing Company. (See Reynolds, W. H., assignor.)



*Alphabetical list of patentees—Continued.*

- Meincke, A. M., Winchester, assignor to T. N. Tripp, trustee, Lynn, Mass. Method and means of treating paper. No. 916,469; Mar. 30; Sp. p. 5717; Gaz. vol. 140; p. 1032.
- Meincke, C. W., Jersey City, N. J., assignor to Whitall Tatum Company, New York, N. Y. Atomizer and nebulizer. No. 918,762; Apr. 20; Sp. p. 3742; Gaz. vol. 141; p. 664.
- Meincke, C. W., Jersey City, N. J., assignor to Whitall, Tatum Company, New York, N. Y. Hot-water or ice bag. No. 919,614; Apr. 27; Sp. p. 5706; Gaz. vol. 141; p. 982.
- Meincke & Company. (See Hogan, D., assignor.)
- Meinert, A., Neckarau, near Mannheim, Germany. Automatic machine for selling liquids. No. 933,478; Sept. 7; Sp. p. 1061; Gaz. vol. 146; p. 153.
- Meinert, A., Neckarau, near Mannheim, Germany. Automatic machine for selling liquids. No. 938,326; Oct. 26; Sp. p. 5717; Gaz. vol. 147; p. 974.
- Meinke, A. E. (See Starr and Meinke.)
- Meiser, G. H., Chicago, Ill., assignor to Excelsior Supply Company. Bicycle. No. 927,989; July 13; Sp. p. 2674; Gaz. vol. 144; p. 456.
- Meiser, J. A., assignor of one-fourth to J. A. Prentice, Eureka, Cal. Combined shutter and finder for photographic cameras. No. 924,088; June 8; Sp. p. 2134; Gaz. vol. 143; p. 356.
- Meisselbach, A. F., and P. Catucci, assignors to A. F. Meisselbach & Brother, Newark, N. J. Fishing-reel. No. 929,867; Aug. 3; Sp. p. 515; Gaz. vol. 145; p. 83.
- Meissner, F. A., Manchester, Va. Mechanical code-signaling device. No. 942,334; Dec. 7; Sp. p. 646; Gaz. vol. 149; p. 103.
- Meister, I., *et al.* (See Grazioli, P., assignor.)
- Mel, J., and L. T. Jones, Jr., Galveston, Tex. Gage for deep-sea soundings. No. 934,741; Sept. 21; Sp. p. 3550; Gaz. vol. 146; p. 619.
- Melanson, N. L., New Orleans, La. Mosquito-bar holder. No. 911,422; Feb. 2; Sp. p. 775; Gaz. vol. 139; p. 135.
- Melasky, S. A., Taylor, Tex. Overalls. No. 914,296; Mar. 2; Sp. p. 1364; Gaz. vol. 140; p. 212.
- Melby, J., Backus, Minn. Hay-fork. No. 917,634; Apr. 6; Sp. p. 1309; Gaz. vol. 141; p. 231.
- Melchers, R. S., Detroit, Mich. Duster. No. 942,507; Dec. 7; Sp. p. 1007; Gaz. vol. 149; p. 162.
- Melchior, H., Omaha, Nebr. Shears. No. 910,008; Jan. 19; Sp. p. 3176; Gaz. vol. 138; p. 587.
- Melchior, L. W., Wilmington, Del. Mail-bag catcher and deliverer. No. 909,007; Jan. 5; Sp. p. 1182; Gaz. vol. 138; p. 188.
- Meldau, C., New York, N. Y. Stopper for washbasins, &c. No. 934,330; Sept. 14; Sp. p. 2751; Gaz. vol. 146; p. 457.
- Meleady, J. T., Newark, N. J. Outlet-box. No. 938,682; Nov. 2; Sp. p. 525; Gaz. vol. 148; p. 80.
- Meleney, G. B., Chicago, Ill. Card-cabinet. No. 926,204; June 29; Sp. p. 6541; Gaz. vol. 143; p. 1156.
- Melhuish, F. D., Atlanta, Ga. Ore-concentrator. No. 944,567; Dec. 28; Sp. p. 5479; Gaz. vol. 149; p. 951.
- Melio, J., Chicago, Ill. Combined ear-muff and neck-protector. No. 932,487; Aug. 31; Sp. p. 6050; Gaz. vol. 145; p. 1049.
- Mellsch, J., Granite City, assignor of four-fifths to S. Santha, A. Ory, S. Laszlo, and C. Hedrich, Benbow City, Ill. Bottle-closure. No. 918,881; Apr. 20; Sp. p. 4001; Gaz. vol. 141; p. 713.
- Melish, T. G., assignor to Bromwell Brush & Wire Goods Company, Cincinnati, Ohio. Wire structure. No. 912,481; Feb. 16; Sp. p. 3001; Gaz. vol. 139; p. 543.
- Mellen, F. J., and B. A. Edwards, Beloit, Wis. Recoil-check. No. 924,913; June 15; Sp. p. 3905; Gaz. vol. 143; p. 666.
- Mellen, J. G., New York, N. Y. Composite metal. No. 936,339; Oct. 12; Sp. p. 1534; Gaz. vol. 147; p. 263.
- Meller, L. J. (See Bacon and Meller.)
- Mellin, C. J. (See Steele, Player, and Mellin.)
- Mellin, C. J., and F. J. Cole, Schenectady, assignors to American Locomotive Company, New York, N. Y. Steam-boiler superheater. No. 918,881; Apr. 20; Sp. p. 4001; Gaz. vol. 141; p. 713.
- Mellinger, A. C., Hanford, assignor of one-half to W. E. Miller, Oakdale, Cal. Automatic call-bell. No. 917,635; Apr. 6; Sp. p. 1310; Gaz. vol. 141; p. 231.
- Mellinger, J. B., Juniata, Nebr. Churn. No. 916,349; Mar. 23; Sp. p. 5444; Gaz. vol. 140; p. 967.
- Mellis, G., Leeds, England. Multiple-spindle machine. No. 921,721; May 18; Sp. p. 3353; Gaz. vol. 142; p. 597.
- Mellish, F., Chicago, Ill. Butter molding and printing machine. No. 932,043; Aug. 24; Sp. p. 5158; Gaz. vol. 145; p. 880.
- Mellon, F. E., Philadelphia, Pa. Quill for narrow-ware shuttles. No. 933,319; Sept. 7; Sp. p. 645; Gaz. vol. 146; p. 100.
- Mellon, G. A., St. Louis, Mo. Davenport-bed. No. 911,316; Feb. 2; Sp. p. 580; Gaz. vol. 139; p. 99.
- Mellor, J. B., Baltimore, Md. Churn-dasher. No. 925,932; June 22; Sp. p. 5966; Gaz. vol. 143; p. 1030.
- Mellre, V. E., New York, N. Y. Projecting apparatus. No. 913,530; Feb. 23; Sp. p. 5163; Gaz. vol. 139; p. 920.
- Melms & Pfenniger, G. m. b. H. (See Roth, C., assignor.)
- Melms & Pfenniger, Gesellschaft mit beschränkter Haftung. (See Richter, O., assignor.)
- Meinik, J., assignor, by mesne assignments, of one-half to P. Arenstien, Chicago, Ill. Gas-valve. No. 928,316; July 20; Sp. p. 3399; Gaz. vol. 144; p. 598.
- Meloney, G. R., Philadelphia, and W. L. Meloney, assignors to Dairymen's Supply Co., Lansdowne, Pa. Milk-weighing scale. No. 915,620; Mar. 16; Sp. p. 4050; Gaz. vol. 140; p. 699.
- Meloney, W. L. (See Meloney, G. R. and W. L.)
- Meloon, J. C., Providence, R. I., assignor to General Fire Extinguisher Company, New York, N. Y. Alarm-valve. No. 933,193; Sept. 7; Sp. p. 349; Gaz. vol. 146; p. 55.
- Meloun, J. F. (See McCune and Meloun.)
- Melrose, W. A., Elwood, Ind., and J. M. Overshiner, Chicago, Ill. Wagon-body. No. 917,960; Apr. 13; Sp. p. 2012; Gaz. vol. 141; p. 366.
- Melton, J. F., Washington D. C. Detachable hinge. No. 909,436; Jan. 12; Sp. p. 2029; Gaz. vol. 138; p. 361.
- Melville, F. D., Klerksdorp, Transvaal. Door-stop. No. 911,423; Feb. 2; Sp. p. 777; Gaz. vol. 139; p. 135.
- Melville, J. I. (See Pickle, W. H., assignor.)
- Melvin, J., Toowoomba, Queensland, Australia. Signaling apparatus. No. 922,014; May 18; Sp. p. 3970; Gaz. vol. 142; p. 694.
- Melze, E. A., Chicago, Ill. Combination drawers and suspensory. No. 925,121; June 15; Sp. p. 4322; Gaz. vol. 143; p. 736.
- Menchen, C., assignor to L. Boehm, Munich, Germany. Coin-paying machine. No. 943,030; Dec. 14; Sp. p. 2162; Gaz. vol. 149; p. 370.
- Menches, C. E., Akron, Ohio. Baking-iron for ice-cream cones. No. 924,484; June 8; Sp. p. 2983; Gaz. vol. 143; p. 488.
- Menczer, E. A., Kansas City, Mo., assignor, by mesne assignments, to Engineers Specialty Company. Rod-packing. No. 927,156; July 6; Sp. p. 945; Gaz. vol. 144; p. 153.
- Mendel, S., Manchester, England. Attachment for bangles, bracelets, and the like. No. 943,031; Dec. 14; Sp. p. 2164; Gaz. vol. 149; p. 370.
- Mendelsohn, M., Chicago, Ill. Check-chute guard and check. No. 912,591; Feb. 16; Sp. p. 3241; Gaz. vol. 139; p. 581.
- Mendenhall, C. A., *et al.* (See Rust, I. C., assignor.)
- Mendenhall, E. J., *et al.* (See Rust, I. C., assignor.)
- Mendenhall, W. S., assignor to Samuel C. Tatum Company, Cincinnati, Ohio. Temporary binder. No. 918,763; Apr. 20; Sp. p. 3744; Gaz. vol. 141; p. 664.
- Mendenhall, W. S., assignor to Samuel C. Tatum Company, Cincinnati, Ohio. Temporary binder. No. 927,741; July 13; Sp. p. 2156; Gaz. vol. 144; p. 373.
- Meneray, R. C., Council Bluffs, Iowa. Stay for plants. No. 926,274; June 29; Sp. p. 6683; Gaz. vol. 143; p. 1179.
- Meng, A., New York, N. Y. Rotary tooth-brush. No. 925,007; June 15; Sp. p. 4107; Gaz. vol. 143; p. 698.
- Menge, J. F., Fort Myers, Fla. Camper's torch. No. 918,070; Apr. 13; Sp. p. 2261; Gaz. vol. 141; p. 406.
- Mengel Box Company. (See Mengel, C. C., assignor.)
- Mengel Box Company. (See Schleicher, J. W., assignor.)
- Mengel Box Company. (See Schleicher, R., assignor.)
- Mengel, C. C., assignor to Mengel Box Company, Louisville, Ky. Wire-bound box. No. 927,261; July 6; Sp. p. 1155; Gaz. vol. 144; p. 188.
- Mengel, C. C., assignor to Mengel Box Company, Louisville, Ky. Knockdown box. No. 927,262; July 6; Sp. p. 1156; Gaz. vol. 144; p. 189.
- Mengel, C. C., assignor to Mengel Box Company, Louisville, Ky. Knockdown box or crate. No. 927,263; July 6; Sp. p. 1158; Gaz. vol. 144; p. 189.
- Mengel, C. C., assignor to Mengel Box Company, Louisville, Ky. Knockdown box. No. 927,264; July 6; Sp. p. 1160; Gaz. vol. 144; p. 189.
- Mengel, C. C., assignor to Mengel Box Company, Louisville, Ky. Knockdown box. No. 927,265; July 6; Sp. p. 1161; Gaz. vol. 144; p. 190.
- Mengel, C. C., assignor to Mengel Box Company, Louisville, Ky. Packing-box. No. 933,846; Sept. 14; Sp. p. 1808; Gaz. vol. 146; p. 298.
- Mengel, C. C., assignor to Mengel Box Company, Louisville, Ky. Compound lumber. No. 934,927; Sept. 21; Sp. p. 3922; Gaz. vol. 146; p. 680.
- Mengers, V. J. A. C., and L. Larsen, Chicago, Ill. Combined hall-stand, step-ladder, ironing-board, &c. No. 944,100; Dec. 21; Sp. p. 4434; Gaz. vol. 149; p. 764.
- Menkin, B., New York, N. Y. Electric-circuit-controlling relay. No. 942,508; Dec. 7; Sp. p. 1009; Gaz. vol. 149; p. 163.
- Menkin, E. F., Chicago, Ill. Olive and pickle fork. No. 914,060; Mar. 2; Sp. p. 872; Gaz. vol. 140; p. 135.
- Mennesson, M. (See Goudard and Mennesson.)
- Menning, J. F., Oakley, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Controller. No. 910,561; Jan. 26; Sp. p. 4371; Gaz. vol. 138; p. 801.
- Meno, F. J., Port Huron, Mich. Shtp's-draft-indicating means. No. 922,933; May 25; Sp. p. 5864; Gaz. vol. 142; p. 1022.

*Alphabetical list of patentees—Continued.*

- Mensch, C. H., Shanesville, Pa. Non-refillable bottle. No. 944,200; Dec. 21; Sp. p. 4647; Gaz. vol. 149; p. 796.
- Mensch, I., New York, N. Y., assignor to Leon Mann Company. Safety-secreet pocket for garments. No. 913,749; Mar. 2; Sp. p. 155; Gaz. vol. 140; p. 26.
- Mensch, L. C., Mason City, Iowa. Composition railway-tie and rail-clamp. No. 927,666; July 13; Sp. p. 2016; Gaz. vol. 144; p. 350.
- Mensing, A., Berlin, Germany. Speed-indicator for ships and water-currents. No. 934,824; Sept. 21; Sp. p. 3722; Gaz. vol. 146; p. 646.
- Mensing, F. E., Mainville, Pa. Nut-lock. No. 923,365; June 1; Sp. p. 588; Gaz. vol. 143; p. 85.
- Menton, H., Astoria, N. Y. Combined cot and hammock. No. 928,317; July 20; Sp. p. 3400; Gaz. vol. 144; p. 598.
- Menton, D. J., and H. Wiechmann, Richmond Hill, N. Y. Sectional cesspool. No. 919,200; Apr. 20; Sp. p. 4617; Gaz. vol. 141; p. 806.
- Mentzer, C. E., assignor of one-fourth to A. J. Zang and one-fourth to A. Bloedt, Denver, Colo. Tap for barrels, kegs, &c. No. 918,458; Apr. 13; Sp. p. 3033; Gaz. vol. 141; p. 533.
- Mentzer, H. D. (See Williams, E. E., assignor.)
- Mentzer, J. P., Chicago, Ill. Loose-leaf binder. No. 935,767; Oct. 5; Sp. p. 317; Gaz. vol. 147; p. 49.
- Mentzer, W. Y., assignor to Oliver Machinery Company, Grand Rapids, Mich. Quick-acting woodworking-vice. No. 939,284; Nov. 9; Sp. p. 1816; Gaz. vol. 148; p. 314.
- Menzel, W., Hanover, Germany. Safety-fuse. No. 930,675; Aug. 10; Sp. p. 2160; Gaz. vol. 145; p. 377.
- Menzl, J., and B. L. Schwartz, Dayton, Ohio. Drip-pan. No. 940,040; Nov. 16; Sp. p. 3527; Gaz. vol. 148; p. 604.
- Meramec Portland Cement & Material Company. (See McCormick, C., assignor.)
- Merceder, C., deceased; E. Merceder, administrator, assignor to H. Laub, trustee, Pittsburg, Pa. Forging-press. No. 939,920; Nov. 9; Sp. p. 3239; Gaz. vol. 148; p. 534.
- Merceder, C., deceased; E. Merceder, administrator, assignor to H. Laub, trustee, Pittsburg, Pa. Apparatus for rolling car-wheels. No. 937,539; Oct. 19; Sp. p. 4072; Gaz. vol. 147; p. 692.
- Merceder, E., administrator. (See Merceder, C.)
- Mercau, A., Buenos Ayres, Argentina. Hydrometer and profile-recording machine. No. 911,146; Feb. 2; Sp. p. 245; Gaz. vol. 139; p. 43.
- Mercau, A. (See Mackenzie and Mercer.)
- Mercer, E. V., Adena, Ohio. Rail-joint. No. 944,806; Dec. 28; Sp. p. 5992; Gaz. vol. 149; p. 1031.
- Mercer, F., Salem, Ohio. Automotor mail-exchange. No. 924,914; June 15; Sp. p. 3907; Gaz. vol. 143; p. 666.
- Mercer, J. W., Joshua, assignor to W. C. Hasha and W. N. Estes, Callahan county, Tex. Ant-trap. No. 944,568; Dec. 28; Sp. p. 5482; Gaz. vol. 149; p. 951.
- Merchant & Evans Co. (See Rose, J. M., assignor.)
- Merchant & Evans Company. (See Cohen, A. J., assignor.)
- Merchant, H. W. (See Thompson and Merchant.)
- Mercier, C. A., Catford, England. Tapping-machine. No. 909,437; Jan. 12; Sp. p. 2030; Gaz. vol. 138; p. 361.
- Mercil, B., *et al.* (See Dumals, J. B., assignor.)
- Mercil, E. J., *et al.* (See Dumals, J. B., assignor.)
- Merck, Firm of E. (See Seifert, B. R., assignor.)
- Merckens, A., New York, N. Y. Vending-machine. No. 919,912; Apr. 27; Sp. p. 6327; Gaz. vol. 141; p. 1081.
- Mercurio, A. (See Benjamin, M. W., assignor.)
- Meredith, E. F., assignor of one-half to G. Howard, Tarboro, N. C. Integral flue-base. No. 922,714; May 25; Sp. p. 5392; Gaz. vol. 142; p. 950.
- Meredith, J. G., Lynchburg, Va. Motion-picture apparatus. No. 925,933; June 22; Sp. p. 5967; Gaz. vol. 143; p. 1030.
- Meredith, J. M., Jr., Norfolk, assignor of one-half to J. W. Gerow, Lynchburg, Va. Fish-dressing machine. No. 926,582; June 29; Sp. p. 7241; Gaz. vol. 143; p. 1280.
- Meredith-Jones, H., assignor of one-half to C. M. Mapes, New York, N. Y. Megaphone. No. 943,252; Dec. 14; Sp. p. 2624; Gaz. vol. 149; p. 444.
- Meredith-Jones, H., assignor of one-half to C. M. Mapes, New York, N. Y. Moving-picture camera. No. 943,253; Dec. 14; Sp. p. 2625; Gaz. vol. 149; p. 445.
- Meredith, N. E., Indianapolis, Ind. Vehicle-wheel. No. 910,009; Jan. 19; Sp. p. 3178; Gaz. vol. 138; p. 587.
- Meredith, W. (See Richardson, Booth, and Meredith.)
- Meredith, W. A., Chicago, Ill. Union garment. No. 923,982; June 8; Sp. p. 1950; Gaz. vol. 143; p. 324.
- Meredith, Z. A., Elkhart, Ind. Cornet. No. 939,285; Nov. 9; Sp. p. 1817; Gaz. vol. 148; p. 314.
- Merree-Johnson Machine Co. (See Johnson, C., assignor.)
- Mergenthaler Linotype Company. (See Clark, R. G., assignor.)
- Mergenthaler Linotype Company. (See Converse, F. B., assignor.)
- Mergenthaler Linotype Company. (See Dodge, P. T., assignor.)
- Mergenthaler Linotype Company. (See Johannesen, F., assignor.)
- Mergenthaler Linotype Company. (See Kennedy, D. S., assignor.)
- Mergenthaler Linotype Company. (See Kennedy, L. L., assignor.)
- Mergenthaler Linotype Company. (See McClintock, F., assignor.)
- Mergenthaler Linotype Company. (See McNamara, J., assignor.)
- Mergenthaler Linotype Company. (See Mergenthaler, O., assignor.)
- Mergenthaler Linotype Company. (See Rogers, J. R., assignor.)
- Mergenthaler, M. H., Rensselaer, N. Y. Waist. No. 930,676; Aug. 10; Sp. p. 2161; Gaz. vol. 145; p. 377.
- Mergenthaler, O., deceased; Safe Deposit and Trust Company of Baltimore and A. Greenleaf, executors, Baltimore, Md., assignors to Mergenthaler Linotype Company. Typographic machine or machine of like character. No. 940,071; Nov. 16; Sp. p. 3597; Gaz. vol. 148; p. 615.
- Merian, F., Basel, Switzerland. Endless-chain conveyer. No. 943,121; Dec. 14; Sp. p. 2365; Gaz. vol. 149; p. 402.
- Méligoux, E. B., Paris, France. Means to connect tires to rims of wheels. No. 936,008; Oct. 5; Sp. p. 861; Gaz. vol. 147; p. 130.
- Merillat, P. C., Winfield, Iowa. Expandable core for molds. No. 917,636; Apr. 6; Sp. p. 1311; Gaz. vol. 141; p. 231.
- Meriwether, C. (See Mitchell and Meriwether.)
- Merkel, W. (See Piéron and Merkel.)
- Merkel, W. B., New York, N. Y., assignor to J. S. S. Fulton, Fullerton, Pa. Furnace. No. 939,526; Nov. 9; Sp. p. 2382; Gaz. vol. 148; p. 395.
- Merkel, F. von, Vienna, Austria-Hungary. Method and device for electrically regulating the speed of prime movers, especially turbines. No. 908,474; Jan. 5; Sp. p. 80; Gaz. vol. 138; p. 16.
- Merkle, O. T., Paris, Ill. Broom-head cover. No. 939,052; Nov. 2; Sp. p. 1290; Gaz. vol. 148; p. 208.
- Merklen, B., assignor to B. Merklen, Jr., Brooklyn, N. Y. Bowling-pin. No. 940,341; Nov. 16; Sp. p. 4208; Gaz. vol. 148; p. 709.
- Merklen, J. (See Chateau and Merklen.)
- Merle, G., Brooklyn, N. Y. Crab-trap. No. 909,922; Jan. 19; Sp. p. 3012; Gaz. vol. 138; p. 558.
- Merlein, H. A., *et al.* (See Harrison and Peterson, assignors.)
- Merlonetti, G., West Chester, Pa. Lock. No. 925,122; June 15; Sp. p. 4322; Gaz. vol. 143; p. 737.
- Mermod Frères. (See Keller, A., assignor.)
- Merralls, W. A., San Francisco, Cal. Air-cooling apparatus. No. 923,437; June 1; Sp. p. 727; Gaz. vol. 143; p. 108.
- Merralls, W. A., San Francisco, Cal. Refrigerator. No. 927,571; July 13; Sp. p. 1771; Gaz. vol. 144; p. 317.
- Merrell, J. F., Newton, Kans. Push-off attachment for sweep-rakes. No. 932,381; Aug. 31; Sp. p. 6871; Gaz. vol. 145; p. 1179.
- Merriam, E. B. (See Hewlett and Merriam.)
- Merriam, L. W., Fitchburg, Mass. Mop-head. No. 911,894; Feb. 9; Sp. p. 1696; Gaz. vol. 139; p. 314.
- Merriam, L. W., assignor of one-half to F. S. Huntley, Fitchburg, Mass. Chain-motor. No. 920,361; May 4; Sp. p. 550; Gaz. vol. 142; p. 88.
- Merrick, D. J., and C. J. Funk, Redondo Beach, Cal. Automatic cut-off for cuspidors and other hydraulic devices. No. 944,741; Dec. 28; Sp. p. 5846; Gaz. vol. 149; p. 1009.
- Merrick, F. H., Huntington, W. Va. Target-trap. No. 920,362; May 4; Sp. p. 552; Gaz. vol. 142; p. 88.
- Merrick, F. W., Chicago, Ill. Joint for artificial limbs. No. 942,093; Dec. 7; Sp. p. 126; Gaz. vol. 149; p. 20.
- Merrick, F. W., assignor to Union Lock Stitch Company, Boston, Mass. Feed mechanism for sewing-machines. No. 923,062; May 25; Sp. p. 6117; Gaz. vol. 142; p. 1062.
- Merrick, F. W., assignor to Union Lock Stitch Company, Boston, Mass. Needle-thread take-up and controlling device for sewing-machines. No. 930,980; Aug. 10; Sp. p. 2814; Gaz. vol. 145; p. 476.
- Merrick, F. W., assignor to Union Lock Stitch Company, Boston, Mass. Needle-thread take-up and controlling device for sewing-machines. No. 933,479; Sept. 7; Sp. p. 1063; Gaz. vol. 146; p. 154.
- Merrick, F. W., assignor to Union Lock Stitch Company, Boston, Mass. Thread-waxing device for sewing-machines. No. 937,708; Oct. 19; Sp. p. 4393; Gaz. vol. 147; p. 746.
- Merrick, F. W., assignor to Union Lock Stitch Company, Boston, Mass. Lock-stitch sewing-machine. No. 939,152; Nov. 2; Sp. p. 1501; Gaz. vol. 148; p. 243.
- Merrick, N. L., Allegheny, Pa. Envelop-fastener. No. 922,934; May 25; Sp. p. 5866; Gaz. vol. 142; p. 1022.
- Merriett, A. S., Kansas City, Kans. Machine for making concrete buildings. No. 938,010; Oct. 26; Sp. p. 5027; Gaz. vol. 147; p. 866.



*Alphabetical list of patentees—Continued.*

- Merrifield, A. I., East Lebanon, Me. Farrier's tool. No. 927,990; July 13; Sp. p. 2676; Gaz. vol. 144; p. 456.
- Merrigan, L. J., Mason, Wis. Box. No. 933,259; Sept. 7; Sp. p. 527; Gaz. vol. 146; p. 81.
- Merrill, A. H., Ocean Springs, Miss. Band-stamp. No. 911,424; Feb. 2; Sp. p. 778; Gaz. vol. 139; p. 135.
- Merrill, C. E., Nashua, N. H. Device for polishing brass. No. 913,414; Feb. 23; Sp. p. 4915; Gaz. vol. 139; p. 881.
- Merrill, C. E., assignor, by mesne assignments, to Autopianist Co., Chicago, Ill. Mechanism for holding and driving music-carrying rolls for mechanical musical instruments. No. 920,075; Apr. 27; Sp. p. 7665; Gaz. vol. 141; p. 1133.
- Merrill, C. W., Lead, S. D. Plate for pressure-filters. No. 912,867; Feb. 16; Sp. p. 3825; Gaz. vol. 139; p. 674.
- Merrill, F. H., Plainfield, N. J. Transmission mechanism. No. 920,363; May 4; Sp. p. 554; Gaz. vol. 142; p. 89.
- Merrill, F. W., Somerville, Mass. Garment hanger and protector. No. 916,571; Mar. 30; Sp. p. 5935; Gaz. vol. 140; p. 1065.
- Merrill, G. W., Lincoln, Me. Printing apparatus. No. 917,784; Apr. 13; Sp. p. 1651; Gaz. vol. 141; p. 307.
- Merrill, H. W., Quincy, Mass. Broom-holder. No. 933,260; Sept. 7; Sp. p. 528; Gaz. vol. 146; p. 81.
- Merrill, J. M., Montclair, N. J. Match-box holder. No. 919,448; Apr. 27; Sp. p. 5343; Gaz. vol. 141; p. 923.
- Merrill, N. C., New York, N. Y. Photographic washing-box. No. 934,331; Sept. 14; Sp. p. 2753; Gaz. vol. 146; p. 457.
- Merrill, R. D., Babylon, N. Y. Shutter-operating device. No. 928,992; July 27; Sp. p. 4737; Gaz. vol. 144; p. 849.
- Merrill, R. T., Milwaukee, Wis. Chimney-cap and ventilator. No. 915,871; Mar. 23; Sp. p. 4561; Gaz. vol. 140; p. 810.
- Merrill, W. L., Schenectady, N. Y., assignor to General Electric Company. Automatic control of water-tight doors. No. 941,428; Nov. 30; Sp. p. 6598; Gaz. vol. 148; p. 1118.
- Merrimac Chemical Company. (See Tufts, J. L., assignor.)
- Merritt, A. A., *et al.* (See Merritt, O. J., assignor.)
- Merritt & Company. (See Holden, G., assignor.)
- Merritt & Company. (See Moore, E. C., assignor.)
- Merritt, E., Westminster, Mass. Sharpener for lawn-mowers. No. 942,578; Dec. 7; Sp. p. 1145; Gaz. vol. 149; p. 186.
- Merritt, F. G., Brockport, N. Y. Display-box. No. 922,498; May 25; Sp. p. 4933; Gaz. vol. 142; p. 879.
- Merritt, H. W. (See Barron and Merritt.)
- Merritt, H. W., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 918,576; Apr. 20; Sp. p. 3296; Gaz. vol. 141; p. 599.
- Merritt, H. W., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 920,600; May 4; Sp. p. 1023; Gaz. vol. 142; p. 167.
- Merritt, J., Hartford, Conn. Packing-machine. No. 936,792; Oct. 12; Sp. p. 2491; Gaz. vol. 147; p. 416.
- Merritt, J. S., and H. B. Coburn, Covington, Va. Rail-joint. No. 918,577; Apr. 20; Sp. p. 3299; Gaz. vol. 141; p. 600.
- Merritt, M. M., Middleton, Mass., assignor to National Electric Lamp Company, Cleveland, Ohio. Incandescent lamp. No. 909,438; Jan. 12; Sp. p. 2032; Gaz. vol. 138; p. 361.
- Merritt, M. M., Middleton, assignor to Boston Incandescent Lamp Company, Danvers, Mass. Exhausting lamps. No. 909,811; Jan. 12; Sp. p. 2772; Gaz. vol. 138; p. 488.
- Merritt, M. M., Middleton, Mass., assignor to National Electric Lamp Company, Cleveland, Ohio. Incandescent lamp. No. 909,812; Jan. 12; Sp. p. 2775; Gaz. vol. 138; p. 488.
- Merritt, O. J., assignor of one-third to A. A. Merritt, Valley, and one-third to E. Doust, Sandpoint, Idaho. Impalement-trap. No. 926,275; June 29; Sp. p. 6684; Gaz. vol. 143; p. 1179.
- Merry, C. L., Kansas City, Mo. Mounting for eyeglasses. No. 929,966; Aug. 3; Sp. p. 727; Gaz. vol. 145; p. 116.
- Merry, C. L., Kansas City, Mo. Eyeglass-guard. No. 939,527; Nov. 9; Sp. p. 2387; Gaz. vol. 148; p. 386.
- Merryman, W. F., assignor of one-half to H. R. Wolcott, Denver, Colo. Air-accumulator. No. 916,886; Mar. 30; Sp. p. 6507; Gaz. vol. 140; p. 1162.
- Merryman, W. F., assignor of one-half to H. R. Wolcott, Denver, Colo. Respirator. No. 926,671; June 29; Sp. p. 7423; Gaz. vol. 143; p. 1309.
- Mersfelder, F., Sr., Canal Dover, Ohio. Sponge indicating and alarm device. No. 917,095; Apr. 6; Sp. p. 272; Gaz. vol. 141; p. 49.
- Mershimer, C. B., New Castle, Pa. Horseshoe-nail clench. No. 929,967; Aug. 3; Sp. p. 728; Gaz. vol. 145; p. 116.
- Mershon, R. D., New York, N. Y. Induction motor and generator. No. 911,147; Feb. 2; Sp. p. 247; Gaz. vol. 139; p. 44.
- Mershon, R. D., New York, N. Y. Operating alternating-current motors. No. 913,415; Feb. 23; Sp. p. 4917; Gaz. vol. 139; p. 882.
- Mershon, R. D., New York, N. Y. Insulating-support for high-tension conductors. No. 917,785; Apr. 13; Sp. p. 1654; Gaz. vol. 141; p. 307.
- Mershon, R. D., New York, N. Y. Variable-speed alternating-current motor. No. 931,136; Aug. 17; Sp. p. 3188; Gaz. vol. 145; p. 557.
- Mershon, R. D., New York, N. Y. Insulating-support for high-tension conductors. No. 942,335; Dec. 7; Sp. p. 649; Gaz. vol. 149; p. 104.
- Mersman, F. J. and J., Ottawa, Ohio. Selective device for party-line telephones. No. 934,979; Sept. 21; Sp. p. 4030; Gaz. vol. 146; p. 700.
- Mersman, F. J. (See Mersman, F. J. and J.)
- Mertens, G., Blasewitz, near Dresden, Germany. Current-collector for electric cars. No. 923,194; June 1; Sp. p. 154; Gaz. vol. 143; p. 26.
- Mervin, C. H., Sweet, Idaho. Nut-lock. No. 926,953; July 6; Sp. p. 518; Gaz. vol. 144; p. 84.
- Merwin, G. H., Milford, Conn. Trolley-head and trolley. No. 921,265; May 11; Sp. p. 2388; Gaz. vol. 142; p. 419.
- Merz, K. (See König, W., assignor.)
- Merzbach, L., New York, N. Y. Hand-bag. No. 924,172; June 8; Sp. p. 2353; Gaz. vol. 143; p. 385.
- Meschenmoser, W. F., Hoboken, and C. H. Kinsman, Plainfield, N. J., assignors to Kinsman Block System Company. Electric block-signaling system. No. 935,768; Oct. 5; Sp. p. 318; Gaz. vol. 147; p. 50.
- Meschini, E., assignor to Firm of E. Meschini, Gallarate, Italy. Bread-mixing machine. No. 936,920; Oct. 12; Sp. p. 2743; Gaz. vol. 147; p. 458.
- Meschini, Firm of E. (See Meschini, E., assignor.)
- Mesick, R. M. (See Thomas, A. J., assignor.)
- Mesinger, F., New York, N. Y. Saddle for motor-cycles. No. 913,300; Feb. 23; Sp. p. 4691; Gaz. vol. 139; p. 842.
- Mesinger, F., New York, N. Y. Rebound checking device for automobiles. No. 930,677; Aug. 10; Sp. p. 2163; Gaz. vol. 145; p. 378.
- Mesinger, H., New York, N. Y. Air-ship. No. 940,701; Nov. 23; Sp. p. 5006; Gaz. vol. 148; p. 855.
- Messick, C., St. Louis, Mo. Passenger-recorder. No. 923,287; June 1; Sp. p. 402; Gaz. vol. 143; p. 57.
- Messier, E. F., New York, N. Y. Eyeglasses. No. 934,625; Sept. 21; Sp. p. 3724; Gaz. vol. 146; p. 647.
- Messina, J., New Orleans, La. Current-motor. No. 922,935; May 25; Sp. p. 5867; Gaz. vol. 142; p. 1022.
- Messinger, C. F., assignor to Chicago Nut Company, Chicago, Ill. Chamfering and countersinking machine. No. 912,250; Feb. 9; Sp. p. 2480; Gaz. vol. 139; p. 427.
- Messinger, G., Providence, R. I. Powder-box cover. No. 938,161; Oct. 26; Sp. p. 5370; Gaz. vol. 147; p. 916.
- Messler, M. C. (See Wattles, L. H., assignor.)
- Messman, H., Jefferson township, Newton county, Ind. Draft mechanism. No. 918,183; Apr. 13; Sp. p. 2470; Gaz. vol. 141; p. 442.
- Messmer, E. W. (See Hyatt and Messmer.)
- Messmore, E. E., and W. Severn, Epworth, Iowa. Automatic oiler. No. 911,513; Feb. 2; Sp. p. 930; Gaz. vol. 139; p. 162.
- Messner, C. W., Philadelphia, Pa. Ground-wire attachment. No. 920,364; May 4; Sp. p. 557; Gaz. vol. 142; p. 89.
- Mesta, F. E., assignor to Mesta Machine Company, Pittsburg, Pa. Making castings, ingots, and the like. No. 937,163; Oct. 19; Sp. p. 3251; Gaz. vol. 147; p. 567.
- Mesta, F. E., assignor to Mesta Machine Company, Pittsburg, Pa. Annealing-box. No. 944,343; Dec. 28; Sp. p. 4945; Gaz. vol. 149; p. 872.
- Mesta, F. E., assignor to Mesta Machine Company, Pittsburg, Pa. Annealing-box. No. 944,344; Dec. 28; Sp. p. 4947; Gaz. vol. 149; p. 872.
- Mesta, G., Pittsburg, Pa. Apparatus for pickling and washing metal plates. No. 935,619; Sept. 28; Sp. p. 5330; Gaz. vol. 146; p. 935.
- Mesta Machine Company. (See Iversen, L., assignor.)
- Mesta Machine Company. (See Keller, A. T., assignor.)
- Mesta Machine Company. (See Mesta, F. E., assignor.)
- Meston, A. M., Roseville, Cal. Skirt-marker. No. 926,276; June 29; Sp. p. 6686; Gaz. vol. 143; p. 1179.
- Meston, C. R., and H. I. Finch, assignors to Emerson Electric Manufacturing Company, St. Louis, Mo. Rheostat. No. 928,394; July 20; Sp. p. 3533; Gaz. vol. 144; p. 624.
- Mestrovich, C., assignor to N. M. Matosin, Portland, Oreg. Ambulance. No. 938,496; Nov. 2; Sp. p. 109; Gaz. vol. 148; p. 17.
- Meswarb, O., Sumner, Iowa. Liquid-weighing apparatus. No. 919,050; Apr. 20; Sp. p. 4341; Gaz. vol. 141; p. 758.
- Metal Post and Pole Company. (See Ruggles and Thompson, assignors.)
- Metal Sectional Furniture Company. (See Holland, E. C., assignor.)
- Metal Sectional Furniture Company. (See Shoemaker and Holland, assignors.)
- Metallic Sheathing Company. (See Berg, L. J., assignor.)
- Metallic Sheathing Company. (See Dunbar and Berg, assignors.)
- Metals Extraction Corporation. (See Hommel, W., assignor.)
- Metcalf, B. A., Denver, Colo. Ironing-machine. No. 921,551; May 11; Sp. p. 2983; Gaz. vol. 142; p. 513.
- Metcalf, E. A., Forbes, Mo. Telephone-stand. No. 936,009; Oct. 5; Sp. p. 862; Gaz. vol. 147; p. 130.
- Metcalf, E. A., Adrian, Mich. Fence-post. No. 916,470; Mar. 30; Sp. p. 5719; Gaz. vol. 140; p. 1032.
- Metcalf, G. A., Malden, Mass. Aeronautic apparatus. No. 908,794; Jan. 5; Sp. p. 756; Gaz. vol. 138; p. 119.
- Metcalf, G. A., assignor to Rathbun Knitting Company, Woonsocket, R. I. Attachment for spooling or winding machines. No. 913,416; Feb. 23; Sp. p. 4929; Gaz. vol. 139; p. 882.

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- Metcalf, S. H., Spokane, Wash. Illumination. No. 931,784; Aug. 24; Sp. p. 4583; Gaz. vol. 145; p. 795.
- Metcalfe, C. C. (See Blackpool, Metcalfe, and Knowles.)
- Metcalfe, J. (See Back and Metcalfe.)
- Metcalfe, J. C., and R. D., Fallowfield, England. Injector. No. 944,455; Dec. 28; Sp. p. 5203; Gaz. vol. 149; p. 911.
- Metcalfe, J. C. (See Metcalfe, J., J. C., and R. D.)
- Metcalfe, J. T. (See Miller and Metcalfe.)
- Metcalfe, R. D. (See Metcalfe, J., J. C., and R. D.)
- Metcalfe, W. S., Worcester, Mass. Cutting mechanism. No. 942,209; Dec. 7; Sp. p. 388; Gaz. vol. 149; p. 60.
- Metcalfe, W. S., Worcester, assignor to United States Envelope Company, Springfield, Mass. Envelop-machine. No. 923,679; June 1; Sp. p. 1247; Gaz. vol. 143; p. 193.
- Meter, W. F., and W. L. Rideout, assignors to Electrical Manufacturing Company, Oshkosh, Wis. Automatic electric-circuit breaker. No. 939,730; Nov. 9; Sp. p. 2828; Gaz. vol. 148; p. 467.
- Meters, Limited. (See Mackenzie and Mercer, assignors.)
- Metropolitan Sewing Machine Company. (See Weis, J. P., assignor.)
- Metropolitan Switchboard Co. (See Kellner, L., assignor.)
- Metropolitan Switchboard Company. (See Newton, W. J., assignor.)
- Metropolitan Switchboard Company. (See Wesley, J. J., assignor.)
- Metzgang, H. F., Schleichbusch, Germany. Detonating-velocity recorder. No. 916,572; Mar. 30; Sp. p. 5937; Gaz. vol. 140; p. 1065.
- Mettler, B., Indianapolis, Ind. Boiler-tube cleaner. No. 914,592; Mar. 9; Sp. p. 1970; Gaz. vol. 140; p. 336.
- Metz, B. (See Funke, P., assignor.)
- Metz & Co., H. A. (See Stolz and Flaecher, assignors.)
- Metz, N., Lansdale, assignor of one-half to R. Schafenacker, North Wales, Pa. Thread-winding machine. No. 933,092; Sept. 7; Sp. p. 114; Gaz. vol. 146; p. 19.
- Metzger, B. C. (See Petersen, E. S., assignor.)
- Metzger, H., Aschaffenburg-Damm, assignor to Aktiengesellschaft für Buntpapier und Leimfabrikation, Aschaffenburg, Germany. Process and machine for marbleizing paper and the like. No. 936,010; Oct. 5; Sp. p. 863; Gaz. vol. 147; p. 130.
- Metzger, R. A., assignor to Ohio Stove Pipe and Manufacturing Company, New Philadelphia, Ohio. Package of nested or knockdown stove-pipe-joints. No. 929,618; July 27; Sp. p. 6022; Gaz. vol. 144; p. 1054.
- Metzger, V. J., Milton, Pa. Cooler. No. 916,749; Mar. 30; Sp. p. 6251; Gaz. vol. 140; p. 1119.
- Metzke, G., Berlin, Germany. Machine for opening envelopes. No. 924,562; June 8; Sp. p. 3147; Gaz. vol. 143; p. 514.
- Metzler, J. A. (See Marsh, C. E., assignor.)
- Meurur, O., Cologne, Germany. Making metal sulfates. No. 920,601; May 4; Sp. p. 1025; Gaz. vol. 142; p. 167.
- Meurur, C. O., Chicago, Ill. Window-ventilator. No. 924,365; June 8; Sp. p. 2765; Gaz. vol. 143; p. 451.
- Meyers, G. N., assignor to H. E. Brammer Manufacturing Company, Davenport, Iowa. Operating mechanism for washing-machines. No. 933,913; Sept. 14; Sp. p. 1944; Gaz. vol. 146; p. 320.
- Mewis, A. F., Fairmont, Minn. Carpet-beater. No. 911,831; Feb. 9; Sp. p. 1579; Gaz. vol. 139; p. 293.
- Mewis, A. F., assignor to Beats All Manufacturing Company, Fairmont, Minn. Carpet-rug beater. No. 920,772; May 4; Sp. p. 1368; Gaz. vol. 142; p. 222.
- Mey, F. H. C., Buffalo, N. Y. Valve actuator and indicator. No. 924,915; June 15; Sp. p. 3908; Gaz. vol. 143; p. 667.
- Mey, F. H. C., Buffalo, N. Y. Furnace. No. 932,044; Aug. 24; Sp. p. 5161; Gaz. vol. 145; p. 880.
- Mey, G., Frintenthal, near Bromberg, Germany. Refrigerator. No. 912,868; Feb. 16; Sp. p. 3826; Gaz. vol. 139; p. 674.
- Meyenschein, F. A., *et al.* (See Koester, W., assignor.)
- Meyer, A. A., Quincy, Mass. Heel-cushion for boots or shoes. No. 916,350; Mar. 23; Sp. p. 5445; Gaz. vol. 140; p. 967.
- Meyer, A. F., Roanoke, Ill. Elevating device. No. 920,602; May 4; Sp. p. 1026; Gaz. vol. 142; p. 167.
- Meyer, A. G., San Francisco, Cal. Treating phenacetin and product. No. 912,869; Feb. 16; Sp. p. 3827; Gaz. vol. 139; p. 674.
- Meyer, A. J., Milwaukee, Wis. Combined telegraph relay and sounder. No. 909,198; Jan. 12; Sp. p. 1582; Gaz. vol. 138; p. 285.
- Meyer, A. J., Nazareth, Pa. Conveyor. No. 919,615; Apr. 27; Sp. p. 5708; Gaz. vol. 141; p. 982.
- Meyer, A. J., Roselle, N. J. Device for poaching eggs. No. 920,973; May 11; Sp. p. 1794; Gaz. vol. 142; p. 318.
- Meyer, B. C., Ney, Ohio. Railway-crossing. No. 926,672; June 29; Sp. p. 7426; Gaz. vol. 143; p. 1310.
- Meyer, C. P., Philadelphia, Pa. Garment-supporter. No. 922,176; May 18; Sp. p. 4275; Gaz. vol. 142; p. 745.
- Meyer, E. E. A. G., New Brunswick, N. J. Reclaiming devulcanized rubber. No. 913,218; Feb. 23; Sp. p. 4525; Gaz. vol. 139; p. 814.
- Meyer, E. E. A. G., New Brunswick, N. J. Reclaiming devulcanized rubber. No. 936,468; Oct. 12; Sp. p. 1837; Gaz. vol. 147; p. 305.
- Meyer, E. H., Mount Olive, Ill. Automatic match-lighter. No. 929,683; Aug. 3; Sp. p. 81; Gaz. vol. 145; p. 16.
- Meyer, E. W. (See Smith and Meyer.)
- Meyer, F. (See Wallace and Meyer.)
- Meyer, F., Aachen, Germany. Cigar. No. 931,629; Aug. 17; Sp. p. 4198; Gaz. vol. 145; p. 720.
- Meyer, F., Hanover, Germany. Pintle-hinge. No. 931,630; Aug. 17; Sp. p. 4198; Gaz. vol. 145; p. 720.
- Meyer, F., Oak Park, Ill. Piano-action. No. 940,264; Nov. 16; Sp. p. 4014; Gaz. vol. 148; p. 683.
- Meyer, F., Burlington, assignor to Dodson Vending Machine Company, Des Moines, Iowa. Coin-controlled mechanism. No. 921,552; May 11; Sp. p. 2985; Gaz. vol. 142; p. 513.
- Meyer, F., Burlington, assignor to Dodson Vending Machine Company, Des Moines, Iowa. Coin-slot mechanism. No. 921,553; May 11; Sp. p. 2990; Gaz. vol. 142; p. 513.
- Meyer, F., and W. H. Caldwell, Perry, assignors, by mesne assignments, to Wagner Manufacturing Company, Cedar Falls, Iowa. Combined hasp-fastener and handle-bearing. No. 929,774; Aug. 3; Sp. p. 299; Gaz. vol. 145; p. 51.
- Meyer, F. W., Norman, Okla. Rotary steam-motor. No. 915,200; Mar. 16; Sp. p. 3219; Gaz. vol. 140; p. 561.
- Meyer, F. W., Bloomfield township, Winneshiek county, Iowa. Plow attachment. No. 925,008; June 15; Sp. p. 4108; Gaz. vol. 143; p. 699.
- Meyer, F. W., Merrillan, Wis. Roofing shingle or tile. No. 931,329; Aug. 17; Sp. p. 3618; Gaz. vol. 145; p. 624.
- Meyer, G. J., Buffalo, N. Y. Apparatus for making malt. No. 936,011; Oct. 5; Sp. p. 865; Gaz. vol. 147; p. 131.
- Meyer, G. J., Milwaukee, Wis. Bottler's apparatus. No. 940,178; Nov. 16; Sp. p. 3838; Gaz. vol. 148; p. 652.
- Meyer, G. S., Newburgh, N. Y. Removable calk. No. 934,197; Sept. 14; Sp. p. 2507; Gaz. vol. 146; p. 413.
- Meyer, G. S., Newburgh, N. Y. Removable calk for horseshoes. No. 934,198; Sept. 14; Sp. p. 2508; Gaz. vol. 146; p. 413.
- Meyer, G. S., Newburgh, N. Y. Horseshoe-calk. No. 934,199; Sept. 14; Sp. p. 2509; Gaz. vol. 146; p. 413.
- Meyer, G. S., Newburgh, N. Y. Removable horseshoe-calk. No. 934,200; Sept. 14; Sp. p. 2510; Gaz. vol. 146; p. 414.
- Meyer, G. U., Providence, R. I. Making ornamental blanks. No. 921,722; May 18; Sp. p. 3358; Gaz. vol. 142; p. 508.
- Meyer, H., New York, N. Y. Universal pneumatic-action. No. 923,548; June 1; Sp. p. 960; Gaz. vol. 143; p. 149.
- Meyer, H., New York, N. Y. Rewinding mechanism. No. 923,549; June 1; Sp. p. 961; Gaz. vol. 143; p. 149.
- Meyer, H., New York, N. Y. Automatic piano. No. 934,201; Sept. 14; Sp. p. 2512; Gaz. vol. 146; p. 414.
- Meyer, H., New York, N. Y. Adjustable piano-pedal connection. No. 939,053; Nov. 2; Sp. p. 1291; Gaz. vol. 148; p. 208.
- Meyer, H. A., assignor to Wolf Electrical Promoting Company, Cincinnati, Ohio. Adjustable presser-foot for cloth-cutting machines. No. 926,815; July 6; Sp. p. 216; Gaz. vol. 144; p. 36.
- Meyer, H. C. (See Erwin and Meyer.)
- Meyer, H. W., Berlin, Germany. Automatic weighing apparatus. No. 917,882; Apr. 13; Sp. p. 1853; Gaz. vol. 141; p. 338.
- Meyer, H. W., Zehlendorf, near Berlin, Germany. Regulating-valve for liquid-weighing machines. No. 921,428; May 11; Sp. p. 2746; Gaz. vol. 142; p. 472.
- Meyer, H. W. J., Milwaukee, Wis. Linotype-magazine rack or support. No. 937,378; Oct. 19; Sp. p. 3707; Gaz. vol. 147; p. 636.
- Meyer, I., Beardstown, Ill. Metallic hammock. No. 913,750; Mar. 2; Sp. p. 156; Gaz. vol. 140; p. 26.
- Meyer, J. A., Prairie Home, Mo. Smoothing-iron. No. 933,480; Sept. 7; Sp. p. 1070; Gaz. vol. 146; p. 154.
- Meyer, J. H., Magdeburg, Germany. Means for counting conversations at telephone-exchanges. No. 921,429; May 11; Sp. p. 2748; Gaz. vol. 142; p. 473.
- Meyer, J. J., Chicago, Ill. Inverted hydrocarbon-vapor lamp. No. 918,071; Apr. 13; Sp. p. 2262; Gaz. vol. 141; p. 406.
- Meyer, J. M., West Chester, Pa. Hydrocarbon-engine. No. 915,103; Mar. 16; Sp. p. 2996; Gaz. vol. 140; p. 529.
- Meyer, J. W., Freeport, Ill. Wheel. No. 942,005; Nov. 30; Sp. p. 7790; Gaz. vol. 148; p. 1312.
- Meyer, L., St. Louis, Mo. Guide for separator-pans. No. 935,041; Sept. 28; Sp. p. 4154; Gaz. vol. 146; p. 744.
- Meyer, O., Richmond, Va. Electrolytic apparatus. No. 914,856; Mar. 9; Sp. p. 2527; Gaz. vol. 140; p. 422.
- Meyer, O. S., Chicago, Ill. Toy. No. 928,777; July 20; Sp. p. 4296; Gaz. vol. 144; p. 749.
- Meyer, P. (See Quigley and Meyer.)
- Meyer, P. B., Shreveport, La. Projectile for rifled guns. No. 910,935; Jan. 26; Sp. p. 5102; Gaz. vol. 138; p. 920.
- Meyer, P. J., New York, N. Y. Engraving-machine. No. 940,179; Nov. 16; Sp. p. 3841; Gaz. vol. 148; p. 652.
- Meyer, R., *et al.* (See Davis, A. E., assignor.)
- Meyer, R. J., assignor of one-half to A. A. Bergen, Grand Junction, Colo. Water-elevator. No. 932,628; Aug. 31; Sp. p. 6361; Gaz. vol. 145; p. 1097.
- Meyer Supply Company. (See Kintzele, J. H., assignor.)



*Alphabetical list of patentees—Continued.*

- Meyer, T., Chicago, Ill. Broom-moistener. No. 911,514; Feb. 2; Sp. p. 931; Gaz. vol. 139; p. 163.  
 Meyer, T. D., Brewster, Minn. Adjustable hinge and brace. No. 923,468; July 20; Sp. p. 3685; Gaz. vol. 144; p. 648.  
 Meyer, W. (See Loewenberg, A., assignor.)  
 Meyer, W. A., Buffalo, N. Y. Buckle. No. 911,895; Feb. 9; Sp. p. 1697; Gaz. vol. 139; p. 314.  
 Meyer, W. W., Stewart, Minn. End-gate fastener. No. 933,380; Sept. 7; Sp. p. 795; Gaz. vol. 146; p. 123.  
 Meyerlammers, W. H., Navasota, Tex. Railway-crossing. No. 914,297; Mar. 2; Sp. p. 1365; Gaz. vol. 140; p. 212.  
 Meyers, C. H., Allegheny, Pa. Box and case. No. 935,388; Sept. 28; Sp. p. 4854; Gaz. vol. 146; p. 858.  
 Meyers, E., Weissensee, near Berlin, Germany. Receptacle with sprinkler-hole in a cap. No. 944,890; Dec. 28; Sp. p. 6163; Gaz. vol. 149; p. 1061.  
 Meyers, H. E., Denver, Colo., assignor of one-fourth to G. Schrage and one-fourth to W. E. Tallmadge, Sheboygan, Wis. Double-flame incandescent lamp. No. 932,405; Aug. 24; Sp. p. 5852; Gaz. vol. 145; p. 999.  
 Meyers, H. E., Denver, Colo., assignor of one-fourth to G. Schrage and one-fourth to W. E. Tallmadge, Sheboygan, Wis. Automatic flash-lamp. No. 932,406; Aug. 24; Sp. p. 5854; Gaz. vol. 145; p. 999.  
 Meyers, J. J. (See Robinson and Meyers.)  
 Meyers, J. J., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Sawing-machine. No. 910,562; Jan. 26; Sp. p. 4373; Gaz. vol. 138; p. 901.  
 Meyers, J. W., and D. F. Paine, Ely, Nev. Concentrating-table. No. 930,553; Aug. 10; Sp. p. 1915; Gaz. vol. 145; p. 337.  
 Meyers, P. P., assignor of one-half to O. K. Cole, Grinnell, Iowa. Electric water-heater. No. 939,054; Nov. 2; Sp. p. 1292; Gaz. vol. 148; p. 208.  
 Meyers, R. C., Canton, Ohio. Molding-machine. No. 924,366; June 8; Sp. p. 2766; Gaz. vol. 143; p. 451.  
 Meyers, W. F., New York, N. Y. Mold for teeth for diamond saws. No. 932,488; Aug. 31; Sp. p. 6051; Gaz. vol. 145; p. 1050.  
 Meyers, W. F., New York, N. Y. Stone-cutting machine. No. 939,528; Nov. 9; Sp. p. 2388; Gaz. vol. 148; p. 396.  
 Meyersberg, G., Berlin, Germany. Expansion-motor. No. 923,680; June 1; Sp. p. 1250; Gaz. vol. 143; p. 193.  
 Meyersberg, G., Berlin, Germany. Compound turbine. No. 941,794; Nov. 30; Sp. p. 7357; Gaz. vol. 148; p. 1240.  
 Meyrowitz, E. B., New York, N. Y., assignor to Meyrowitz Manufacturing Co. Eyeglasses. No. 943,836; Dec. 21; Sp. p. 3879; Gaz. vol. 149; p. 674.  
 Meyrowitz Manufacturing Co. (See Meyrowitz, E. B., assignor.)  
 Meyrowitz Manufacturing Company. (See Buchhop, F., assignor.)  
 Mezger, C., and A. Weller, Frankfurt-on-the-Main, Germany, assignors to Vereinigte Chininfabriken Zimmer & Co., G. M. B. H. Theobromin double salts. No. 917,096; Apr. 6; Sp. p. 275; Gaz. vol. 141; p. 50.  
 Mianus Motor Works. (See Gray, G., assignor.)  
 Michael, C. E., Fostoria, Ohio. Atomizer. No. 922,307; May 18; Sp. p. 4536; Gaz. vol. 142; p. 788.  
 Michael, C. G. (See Michael, E. S. and C. G.)  
 Michael, C. W., assignor to J. I. Case Plow Works, Racine, Wis. Cultivator. No. 936,012; Oct. 5; Sp. p. 868; Gaz. vol. 147; p. 131.  
 Michael, E., *et al.* (See Willet, J. G., assignor.)  
 Michael, E. S. and C. G., Fort Hill, Pa. Railway-tie. No. 924,563; June 8; Sp. p. 3149; Gaz. vol. 143; p. 514.  
 Michael, I., *et al.* (See Willet, J. G., assignor.)  
 Michael, J. B., Knoxville, Tenn. Making records for setting slide-valves. No. 942,453; Dec. 7; Sp. p. 876; Gaz. vol. 149; p. 144.  
 Michael, O. P. W., assignor, by mesne assignments, to United States Promoting & Mfg. Co., Cherryvale, Kans. Sectional rail. No. 922,439; May 18; Sp. p. 4814; Gaz. vol. 142; p. 832.  
 Michaels, S., Mount Pulaski, Ill. Cross-tie. No. 914,967; Mar. 9; Sp. p. 2716; Gaz. vol. 140; p. 457.  
 Michaelsen, C. O., Omaha, Nebr. Ore-crusher. No. 908,592; Jan. 5; Sp. p. 342; Gaz. vol. 138; p. 55.  
 Michaelsen, C. O., Omaha, Nebr. Mineral-concentrator. No. 917,337; Apr. 6; Sp. p. 780; Gaz. vol. 141; p. 133.  
 Michaelsen, C. O., Omaha, Nebr. Ore-crusher. No. 931,210; Aug. 17; Sp. p. 3355; Gaz. vol. 145; p. 583.  
 Michaelsen, I. T., New York, N. Y. Safety-envelop. No. 925,367; June 15; Sp. p. 4773; Gaz. vol. 143; p. 815.  
 Michaelson, J. C., Charleston, W. Va. Trolley-clip. No. 936,340; Oct. 12; Sp. p. 1535; Gaz. vol. 147; p. 263.  
 Michaelson, J. M., Minneapolis, Minn. Combined transmission and chain-adjustment mechanism. No. 913,531; Feb. 23; Sp. p. 5164; Gaz. vol. 139; p. 921.  
 Michaelson, J. M., Geneva, N. Y. Sharpening device. No. 918,689; Apr. 20; Sp. p. 3603; Gaz. vol. 141; p. 638.  
 Michalkowski, C. v., Rixdorf, near Berlin, Germany. Manufacture of tiled linoleum. No. 927,370; July 6; Sp. p. 1330; Gaz. vol. 144; p. 222.  
 Michaud, O. E., St. Louis, Mo. Attachment for shotguns. No. 927,572; July 13; Sp. p. 1773; Gaz. vol. 144; p. 317.  
 Michaud, O. E., St. Louis, Mo. Shotgun. No. 927,573; July 13; Sp. p. 1775; Gaz. vol. 144; p. 317.  
 Michaud, O. E., St. Louis, Mo. Roller-bearing. No. 933,320; Sept. 7; Sp. p. 647; Gaz. vol. 146; p. 100.  
 Michaud, O. E., St. Louis, Mo. Roller-bearing. No. 939,055; Nov. 2; Sp. p. 1294; Gaz. vol. 148; p. 209.  
 Michaud, O. E., St. Louis, Mo. Roller-bearing. No. 939,056; Nov. 2; Sp. p. 1296; Gaz. vol. 148; p. 209.  
 Michel, F., assignor of one-half to O. S. Gropper, Long Island City, N. Y. Safety device for locks. No. 934,928; Sept. 21; Sp. p. 3923; Gaz. vol. 146; p. 680.  
 Michel, W. C. F., Waldo, Ohio. Ice-cutting machine. No. 920,166; May 4; Sp. p. 141; Gaz. vol. 142; p. 22.  
 Michelin, A. J., Clermont-Ferrand, France. Means for securing the tires of automobiles and other vehicles. No. 927,266; July 6; Sp. p. 1162; Gaz. vol. 144; p. 190.  
 Michelin, E. E., Clermont-Ferrand, France. Wheel for vehicles. No. 920,603; May 4; Sp. p. 1029; Gaz. vol. 142; p. 167.  
 Michell, A. G. M. (See Newton and Michell.)  
 Michelsen, A. H., Chicago, Ill. Lens-measuring instrument. No. 917,097; Apr. 6; Sp. p. 276; Gaz. vol. 141; p. 50.  
 Michelson, A. A., Chicago, Ill. Range-finder. No. 921,137; May 11; Sp. p. 2123; Gaz. vol. 142; p. 374.  
 Michener, J. H., Jr., assignor to Michener Stowage Company, New York, N. Y. Trimming mechanism. No. 929,619; July 27; Sp. p. 6023; Gaz. vol. 144; p. 1054.  
 Michener, J. H., Jr., assignor to Michener Stowage Company, New York, N. Y. Trimming mechanism. No. 937,684; Oct. 19; Sp. p. 4327; Gaz. vol. 147; p. 737.  
 Michener Stowage Company. (See Michener, J. H., Jr., assignor.)  
 Michigan Carton Company. (See Fell, W. I., assignor.)  
 Michigan Tool and Stamping Works. (See Corbin, C. B., assignor.)  
 Michigan Wheel Company. (See Perkins, H. J., assignor.)  
 Michon, E. A. (See Gerrard, T. H., assignor.)  
 Mick, J. C., Jersey Shore, Pa. Wire hanger for magazines, books, &c. No. 930,775; Aug. 10; Sp. p. 2368; Gaz. vol. 145; p. 410.  
 Mickelsen, C. H., Bench, Idaho. Farm-wagon. No. 944,891; Dec. 28; Sp. p. 6164; Gaz. vol. 149; p. 1061.  
 Mickelson, C. F. (See Keil and Mickelson.)  
 Mickelson, G. A., Spokane, Wash. Propelling-gear for trucks. No. 934,685; Sept. 21; Sp. p. 3450; Gaz. vol. 146; p. 601.  
 Mickelson, M., Soldiers Grove, Wis. Mail-carrier. No. 934,980; Sept. 21; Sp. p. 4034; Gaz. vol. 146; p. 700.  
 Mickish, A., Earlsboro, Okla. Button-fastener. No. 927,574; July 13; Sp. p. 1777; Gaz. vol. 144; p. 318.  
 Midbo, A., and G. Gulbrandson, New York, N. Y. Telltale-bottle. No. 941,890; Nov. 30; Sp. p. 7571; Gaz. vol. 148; p. 1274.  
 Middlebrook, J., Brimley, Mich. Churn. No. 936,921; Oct. 12; Sp. p. 2744; Gaz. vol. 147; p. 459.  
 Middleby, J., Watertown, Mass. Baker's oven. No. 914,153; Mar. 2; Sp. p. 1056; Gaz. vol. 140; p. 168.  
 Middleby Oven Mfg. Co. (See Faulds, J., assignor.)  
 Middleton, C. R., Philadelphia, Pa. Cutting-tool for planers, lathes, &c. No. 936,793; Oct. 12; Sp. p. 2494; Gaz. vol. 147; p. 416.  
 Middleton, E. J., Manchester, Iowa. Label-holder. No. 942,094; Dec. 7; Sp. p. 127; Gaz. vol. 149; p. 20.  
 Middleton, H. N., Westville, N. J. Pneumatic separator. No. 940,469; Nov. 16; Sp. p. 4499; Gaz. vol. 148; p. 752.  
 Middleton, W., and H. N. G. Cobbe, Kalgoorlie, Western Australia, Australia. Grinding-pan. No. 936,794; Oct. 12; Sp. p. 2496; Gaz. vol. 147; p. 416.  
 Midgley, F. W. (See Shoemaker and Midgley.)  
 Midgley, J. G., Salt Lake City, Utah, assignor to Warren Webster & Co., Camden, N. J. Water and air relief valve. No. 930,207; Aug. 3; Sp. p. 1208; Gaz. vol. 145; p. 198.  
 Midgley, T., Columbus, Ohio. Vehicle-wheel. No. 915,304; Mar. 16; Sp. p. 3406; Gaz. vol. 140; p. 594.  
 Midgley, T., Worthington, Ohio. Tire for vehicle-wheels. No. 939,610; Nov. 9; Sp. p. 2581; Gaz. vol. 148; p. 424.  
 Midgley, T., Worthington, Ohio. Tire for vehicle-wheels. No. 939,611; Nov. 9; Sp. p. 2583; Gaz. vol. 148; p. 424.  
 Midgley, T., Hartford, Conn., assignor to Hartford Rubber Works Company. Vehicle-wheel. No. 913,219; Feb. 23; Sp. p. 4527; Gaz. vol. 139; p. 815.  
 Midgley, T., Hartford, Conn., assignor to Hartford Rubber Works Company. Tire. No. 913,220; Feb. 23; Sp. p. 4529; Gaz. vol. 139; p. 815.  
 Midgley, T., Hartford, Conn., and E. Hopkinson, East Orange, N. J. Wheel-tire. No. 908,475; Jan. 5; Sp. p. 85; Gaz. vol. 138; p. 16.  
 Midgley, T. H., Kalamazoo, Mich. Massage device. No. 912,708; Feb. 16; Sp. p. 3491; Gaz. vol. 139; p. 622.  
 Midvale Steel Company. (See Booth, H. D., assignor.)  
 Midvale Steel Company. (See Soderstrom, K. A., assignor.)  
 Miedreich, W. P. (See St. John, J. M., assignor.)

*Alphabetical list of patentees—Continued.*

- Miehle Printing Press & Manufacturing Company. (See McCain, C. A., assignor.)
- Miehle, R., Chicago, Ill. Printing-press. No. 909,199; Jan. 12; Sp. p. 1583; Gaz. vol. 138; p. 285.
- Miehle, R., Chicago, Ill. Sheet-delivering mechanism. No. 912,395; Feb. 16; Sp. p. 2837; Gaz. vol. 139; p. 515.
- Mielenz, O. W., Jenks, Okla. Foot-power hammer. No. 944,140; Dec. 21; Sp. p. 4529; Gaz. vol. 149; p. 777.
- Mielke, W. J. A., Grafton, Wis. Winding-indicator for clocks. No. 926,277; June 29; Sp. p. 6687; Gaz. vol. 143; p. 1180.
- Miely, F. J. S., Gunnison, Colo. Door-hanger. No. 938,264; Oct. 26; Sp. p. 5575; Gaz. vol. 147; p. 953.
- Miely, F. J. S., Gunnison, Colo. Gate and door fastener. No. 941,203; Nov. 23; Sp. p. 6096; Gaz. vol. 148; p. 1023.
- Miely, F. J. S., Gunnison, Colo. Sliding-door fastener. No. 943,362; Dec. 14; Sp. p. 2862; Gaz. vol. 149; p. 481.
- Miess, J. H., Harlesden, assignor to Empire Light Limited, Charing Cross, England. Vapor-burning apparatus. No. 944,456; Dec. 28; Sp. p. 5205; Gaz. vol. 149; p. 912.
- Mietz, A. (See Weiss, C. W., assignor.)
- Miéville, M. F., Chichester, England. Carbureter. No. 938,011; Oct. 26; Sp. p. 5031; Gaz. vol. 147; p. 866.
- Mihalik, F., Pittsburg, Pa. Rail-joint. No. 928,683; July 20; Sp. p. 4127; Gaz. vol. 144; p. 718.
- Mika, A. D. (See Courtright and Mika.)
- Mikael, F., Jacksboro, Tex. Car-coupling. No. 918,764; Apr. 20; Sp. p. 3744; Gaz. vol. 141; p. 665.
- Mikesch, H. F., and E. Roman, St. Louis, Mo. Automatic check-valve for faucets. No. 910,213; Jan. 19; Sp. p. 3607; Gaz. vol. 138; p. 655.
- Mikesell, R. E. (See Madill and Mikesell.)
- Mikolajczak, A., Kastrop, Germany. Dinitroglycerin explosive and making same. No. 910,936; Jan. 26; Sp. p. 5104; Gaz. vol. 138; p. 920.
- Mikorey, H., Schöneberg, assignor to W. Graaff & Compagnie, Ges. mit beschr. Haftung, Berlin, Germany. Indicator for testing liquids with respect to viscosity. No. 920,604; May 4; Sp. p. 1030; Gaz. vol. 142; p. 168.
- Mikorey, H., Schöneberg, near Berlin, assignor to W. Graaff & Compagnie, Ges. mit beschr. Haftung, Berlin, Germany. Device for the uniform sprinkling of liquids. No. 923,550; June 1; Sp. p. 963; Gaz. vol. 143; p. 149.
- Mikorey, H., Schöneberg, near Berlin, assignor to W. Graaff & Compagnie, Ges. mit beschr. Haftung, Berlin, Germany. Exchangeable container for chemical fire-extinguishers. No. 923,551; June 1; Sp. p. 964; Gaz. vol. 143; p. 150.
- Mikorey, H., Schöneberg, near Berlin, and C. Wagener, Neuruppin, Germany, assignors to Minimax Consolidated Limited, London, England. Paint or color dispenser with locking device for the valve-operating lever. No. 928,682; July 20; Sp. p. 4126; Gaz. vol. 144; p. 718.
- Milam, J. F., assignor of one-half to W. C. England, Rome, Ga. Molding apparatus for pipe-joints. No. 943,558; Dec. 14; Sp. p. 3264; Gaz. vol. 149; p. 550.
- Milankovitch, M., Vienna, Austria-Hungary. Production of hollow reinforced-concrete slabs. No. 940,041; Nov. 16; Sp. p. 3529; Gaz. vol. 148; p. 604.
- Milbank, L. A., assignor to Robert L. Walker Furnace Company, Boston, Mass. Smoke-consuming furnace. No. 908,476; Jan. 5; Sp. p. 89; Gaz. vol. 138; p. 16.
- Milbank, W. E. (See Shiverick, M. D., assignor.)
- Milburn, W. M., Denison, Tex. Freezer. No. 944,625; Dec. 28; Sp. p. 5599; Gaz. vol. 149; p. 971.
- Milch, M., Schenectady, N. Y., assignor to General Electric Company. Alternating-current motor. No. 918,690; Apr. 20; Sp. p. 3604; Gaz. vol. 141; p. 639.
- Milentz, A. L., St. Louis, Mo. Glass-cutting machine. No. 933,481; Sept. 7; Sp. p. 1070; Gaz. vol. 146; p. 154.
- Miles, B. N., North Ridgeville, assignor of one-half to O. C. Billman, Cleveland, Ohio. Lavatory-plug and means for operating the same. No. 908,477; Jan. 5; Sp. p. 91; Gaz. vol. 138; p. 17.
- Miles, C. E., Pomona, Fla. Trunk-strap. No. 911,604; Feb. 9; Sp. p. 1136; Gaz. vol. 139; p. 219.
- Miles, H. J. (See Read and Miles.)
- Miles, J. F., St. Louis, Mo. Tent pin or anchor. No. 928,469; July 20; Sp. p. 3685; Gaz. vol. 144; p. 648.
- Miles, W. J., Jr., Middletown, Ohio. Razor-stropping device. No. 910,563; Jan. 26; Sp. p. 4375; Gaz. vol. 138; p. 802.
- Miles, W. L., assignor to Wickes Brothers, Saginaw, Mich. Gang-saw-mill carriage and steam-feed pressure-roll structure. No. 914,154; Mar. 2; Sp. p. 1059; Gaz. vol. 140; p. 168.
- Miley, M. A., Lima, Wis. Stanchion. No. 933,775; Sept. 14; Sp. p. 1658; Gaz. vol. 146; p. 274.
- Milhado, E. W., Mineral, Va. Package-tie. No. 931,631; Aug. 17; Sp. p. 4199; Gaz. vol. 145; p. 720.
- Miltholland, G. A., assignor of one-half to L. C. Gray, Pittsburg, Pa. Extension curtain-holder and bracket. No. 926,071; June 22; Sp. p. 6247; Gaz. vol. 143; p. 1076.
- Militz, A. E., Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Soluble starch. No. 941,599; Nov. 23; Sp. p. 5990; Gaz. vol. 143; p. 1007.
- Milke, L. J., Baltimore, Md. Automatic control device for elevators. No. 922,016; May 18; Sp. p. 3972; Gaz. vol. 142; p. 694.
- Milke, L. J., Baltimore, Md. Valve. No. 922,017; May 18; Sp. p. 3975; Gaz. vol. 142; p. 695.
- Milke, L. J., Baltimore, Md. Automatic control device for elevators. No. 923,366; June 1; Sp. p. 589; Gaz. vol. 143; p. 85.
- Milke, L. J., Baltimore, Md. Automatic control device for elevators. No. 932,714; Aug. 31; Sp. p. 6538; Gaz. vol. 145; p. 1126.
- Milks, A. L., Napoli, N. Y. Holder for sap-buckets and lids. No. 935,769; Oct. 5; Sp. p. 328; Gaz. vol. 147; p. 50.
- Milks, H. S., assignor to Best Crude Oil Burner Company, Parsons, Kans. Oil-burner. No. 936,922; Oct. 12; Sp. p. 2745; Gaz. vol. 147; p. 459.
- Mill, A., assignor to Peters Cartridge Company, Cincinnati, Ohio. Tube-machine. No. 923,552; June 1; Sp. p. 965; Gaz. vol. 143; p. 150.
- Mill, A., assignor to Peters Cartridge Company, Cincinnati, Ohio. Tube-rolling machine. No. 923,553; June 1; Sp. p. 972; Gaz. vol. 143; p. 150.
- Mill, A., assignor to Peters Cartridge Company, Cincinnati, Ohio. Tube-cutting machine. No. 923,554; June 1; Sp. p. 978; Gaz. vol. 143; p. 151.
- Mill, A., Cincinnati, assignor of one-third to H. Hayner, one-third to W. B. Hayner, South Lebanon, and one-third to C. Mill, Cincinnati, Ohio. Apparatus for sterilizing canned goods. No. 932,629; Aug. 31; Sp. p. 6362; Gaz. vol. 145; p. 1098.
- Mill, A., assignor to C. Mill, Cincinnati, Ohio. Fluid-motor. No. 941,582; Nov. 30; Sp. p. 6900; Gaz. vol. 148; p. 1168.
- Mill, C. (See Mill, A., assignor.)
- Millam, J. W., assignor of one-half to G. M. Jennings, St. Louis, Mo. Apparatus for forming concrete fence-posts. No. 925,009; June 15; Sp. p. 4109; Gaz. vol. 143; p. 699.
- Millar, G. W., St. Louis, Mo. Pipe-coupling. No. 923,681; June 1; Sp. p. 1252; Gaz. vol. 143; p. 194.
- Millar, J. D., Milwaukee, Wis. Flask for sand molds. No. 939,848; Nov. 9; Sp. p. 3074; Gaz. vol. 148; p. 507.
- Millar, J. D., Milwaukee, Wis. Molding-flask. No. 939,849; Nov. 9; Sp. p. 3075; Gaz. vol. 148; p. 508.
- Millard, E. F., Watertown, Mass. Pulp-feeding device for paper-machines. No. 933,656; Sept. 7; Sp. p. 1407; Gaz. vol. 146; p. 211.
- Milleisen, J. J. (See Rice, W. H., assignor.)
- Miller, A. (See Elliott and Miller.)
- Miller, A. A., *et al.* (See Baum, J. B., assignor.)
- Miller, A. E., Newton Hamilton, Pa. Match-box. No. 926,673; June 29; Sp. p. 7427; Gaz. vol. 148; p. 1310.
- Miller, A. F., M. Huggins, and C. E. Jenkins, Columbus, Ohio. Water-motor. No. 917,092; Apr. 6; Sp. p. 268; Gaz. vol. 141; p. 49.
- Miller, A. G., Jersey City, N. J. Coffee and tea urn. No. 918,765; Apr. 20; Sp. p. 3746; Gaz. vol. 141; p. 665.
- Miller, A. H., *et al.* (See McCullough, S. A., assignor.)
- Miller, A. J., Cleveland, Ohio. Carboy. No. 939,286; Nov. 9; Sp. p. 1821; Gaz. vol. 148; p. 315.
- Miller, A. J., and J. T. Metcalfe, Quincy, Pa. Speed-controlling mechanism for explosive-engines. No. 936,795; Oct. 12; Sp. p. 2498; Gaz. vol. 147; p. 417.
- Miller, A. L. (See Miller, F. and A. L.)
- Miller, A. M., Augusta, Ga. Bottle-cap. No. 931,450; Aug. 17; Sp. p. 3862; Gaz. vol. 145; p. 666.
- Miller, A. W., and L. L. Painter, Strasburg, Va. Package-binder. No. 913,030; Feb. 23; Sp. p. 4139; Gaz. vol. 139; p. 752.
- Miller, B. D., Wooster, Ohio. Printing-frame. No. 925,934; June 22; Sp. p. 5969; Gaz. vol. 143; p. 1031.
- Miller, B. F., Fort Sheridan, Ill. Loading and unloading apparatus. No. 935,042; Sept. 28; Sp. p. 4156; Gaz. vol. 146; p. 745.
- Miller, B. L., Yazoo City, Miss. Bridge and throat-latch snap. No. 912,014; Feb. 9; Sp. p. 2036; Gaz. vol. 139; p. 354.
- Miller, C., Syracuse, N. Y. Belt-carrier. No. 909,439; Jan. 12; Sp. p. 2035; Gaz. vol. 138; p. 362.
- Miller, C., New York, N. Y. Rotary engine. No. 924,173; June 8; Sp. p. 2354; Gaz. vol. 143; p. 385.
- Miller, C., Pittsburg, Pa. Curtain-stretcher. No. 925,210; June 15; Sp. p. 4493; Gaz. vol. 143; p. 767.
- Miller, C., New York, N. Y. Rotary steam-engine. No. 931,785; Aug. 24; Sp. p. 4584; Gaz. vol. 145; p. 795.
- Miller, C., Denver, Colo. Dumping-vehicle. No. 938,012; Oct. 26; Sp. p. 5032; Gaz. vol. 147; p. 866.
- Miller, C. A., Marshalltown, Iowa. Hitching-post. No. 930,208; Aug. 3; Sp. p. 1210; Gaz. vol. 145; p. 198.
- Miller, C. A., Gilman, Ill. Fence-staple. No. 934,686; Sept. 21; Sp. p. 3452; Gaz. vol. 146; p. 601.
- Miller, C. C., Fort Wayne, Ind. Bag. No. 924,174; June 8; Sp. p. 2356; Gaz. vol. 143; p. 386.
- Miller, C. C., Omaha, Nebr. Gate. No. 935,673; Oct. 5; Sp. p. 107; Gaz. vol. 147; p. 18.
- Miller, C. D., St. Joseph, Mo. Automatic shut-off valve. No. 924,257; June 8; Sp. p. 2548; Gaz. vol. 143; p. 414.
- Miller, C. D., St. Joseph, Mo. Pressure-regulating and shut-off valve combined. No. 935,217; Sept. 28; Sp. p. 4510; Gaz. vol. 146; p. 802.
- Miller, C. D., St. Louis, Mo. Automatic fire-alarm. No. 936,923; Oct. 12; Sp. p. 2747; Gaz. vol. 147; p. 459.
- Miller, C. E. M., New York, N. Y. Incline-truck. No. 933,321; Sept. 7; Sp. p. 649; Gaz. vol. 146; p. 101.
- Miller, C. H. (See Henderson and Miller.)



*Alphabetical list of patentees—Continued.*

- Miller, C. H., Brooklyn, Ohio. Kitchen-range. No. 915,986; Mar. 23; Sp. p. 4786; Gaz. vol. 140; p. 846.
- Miller, C. H., Cleveland, Ohio. Combined solid-fuel and gas range for kitchen and other uses. No. 915,987; Mar. 23; Sp. p. 4788; Gaz. vol. 140; p. 846.
- Miller, C. H., New Rochelle, N. Y. Calculating device. No. 942,579; Dec. 7; Sp. p. 1145; Gaz. vol. 149; p. 186.
- Miller, C. H., assignor to Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Self-starter for electric motors. No. 921,430; May 11; Sp. p. 2750; Gaz. vol. 142; p. 474.
- Miller, C. H., West Pittsburg, assignor to Safety-Armorite Conduit Company, Pittsburg, Pa. Flexible conduit. No. 942,787; Dec. 7; Sp. p. 1557; Gaz. vol. 149; p. 256.
- Miller, C. H., West Pittsburg, assignor to Safety-Armorite Conduit Company, Pittsburg, Pa. Conduit for electric wires. No. 942,788; Dec. 7; Sp. p. 1558; Gaz. vol. 149; p. 256.
- Miller, C. H., West Pittsburg, assignor to Safety-Armorite Conduit Company, Pittsburg, Pa. Flexible electric conduit. No. 942,789; Dec. 7; Sp. p. 1559; Gaz. vol. 149; p. 257.
- Miller, C. H., West Pittsburg, assignor to Safety-Armorite Conduit Company, Pittsburg, Pa. Flexible conduit for electric wires. No. 942,790; Dec. 7; Sp. p. 1560; Gaz. vol. 149; p. 257.
- Miller, C. J., Minneapolis, Minn. Store-service apparatus. No. 910,141; Jan. 19; Sp. p. 3438; Gaz. vol. 138; p. 630.
- Miller Carbureter & Manufacturing Company. (See Miller, H. A., assignor.)
- Miller, D., assignor to McCord & Company, Chicago, Ill. Speed-indicator. No. 910,404; Jan. 19; Sp. p. 4029; Gaz. vol. 138; p. 723.
- Miller, D. C., Melrose, Fla., assignor of one-third to H. W. Hamlyn, Hohokus, N. J., and one-third to H. Jackson, Melrose, Fla. Railway-joint chair. No. 914,593; Mar. 9; Sp. p. 1971; Gaz. vol. 140; p. 336.
- Miller, D. D., Middletown, Conn., assignor to Crompton & Knowles Loom Works. Loom harness-motion. No. 943,262; Dec. 14; Sp. p. 2644; Gaz. vol. 149; p. 448.
- Miller, D. E., Louisville, Ky. Mattress. No. 928,778; July 20; Sp. p. 4297; Gaz. vol. 144; p. 749.
- Miller, D. H., Binghamton, N. Y. Nut-locking device. No. 916,351; Mar. 23; Sp. p. 5447; Gaz. vol. 140; p. 967.
- Miller, D. L. (See Holland, D. L., assignor.)
- Miller, D. W., Chicago, Ill. Excavating-machine. No. 939,731; Nov. 9; Sp. p. 2831; Gaz. vol. 148; p. 467.
- Miller, D. W., Chicago, Ill. Excavating-machine. No. 939,850; Nov. 9; Sp. p. 3077; Gaz. vol. 148; p. 508.
- Miller, Du Brul and Peters Manufacturing Company. (See Rosewarne, E. E., assignor.)
- Miller, E., Mount Sterling, Ill. Fire-escape. No. 923,555; June 1; Sp. p. 985; Gaz. vol. 143; p. 151.
- Miller, E., and C. F. Ryer, Prescott, Ariz. Ter. Steam-trap. No. 921,865; May 18; Sp. p. 3664; Gaz. vol. 142; p. 646.
- Miller, E., Pringhar, assignor of one-half to O. J. Harris, Archer, Iowa. Indicator for street-railway coaches. No. 911,666; Feb. 9; Sp. p. 1282; Gaz. vol. 139; p. 240.
- Miller, E. E., Rochester, Mich. Acetylene-gas generator. No. 927,991; July 13; Sp. p. 2677; Gaz. vol. 144; p. 456.
- Miller, E. J., Shamokin, Pa. Attachment for sewing-machines. No. 912,015; Feb. 9; Sp. p. 2037; Gaz. vol. 139; p. 354.
- Miller, E. J., assignor to St. Louis Screw Company, St. Louis, Mo. Screw-cutting machine. No. 935,315; Sept. 28; Sp. p. 4707; Gaz. vol. 146; p. 835.
- Miller, E. L., Terre Haute, Ind. Socket-fastener. No. 922,936; May 25; Sp. p. 5868; Gaz. vol. 142; p. 1022.
- Miller, E. P., Greenfield, Mass. Multiple-spindle index-center. No. 910,937; Jan. 26; Sp. p. 5106; Gaz. vol. 138; p. 920.
- Miller, F. and A. L., Three Rivers, Mich. Kettle and pan lifter. No. 932,306; Aug. 24; Sp. p. 5669; Gaz. vol. 145; p. 967.
- Miller, F. A., Campbellsburg, Ky. Churn. No. 922,796; May 25; Sp. p. 5557; Gaz. vol. 142; p. 976.
- Miller, F. B., Norwalk, Ohio. Earth-anchor. No. 915,784; Mar. 23; Sp. p. 4407; Gaz. vol. 140; p. 782.
- Miller, F. C., Easton, Pa. Wheel-rim. No. 911,425; Feb. 2; Sp. p. 778; Gaz. vol. 139; p. 135.
- Miller, F. C., Worcester, Mass. Cylinder relief and drainage device. No. 911,603; Feb. 9; Sp. p. 1134; Gaz. vol. 139; p. 219.
- Miller, F. C., Cincinnati, Ohio. Friction-insert for braking-surfaces. No. 914,594; Mar. 9; Sp. p. 1972; Gaz. vol. 140; p. 337.
- Miller, F. C., Cincinnati, Ohio. Rear axle for automobiles. No. 922,808; May 18; Sp. p. 4536; Gaz. vol. 142; p. 788.
- Miller, F. C., Cincinnati, Ohio. Rear axle for automobiles. No. 931,451; Aug. 17; Sp. p. 3863; Gaz. vol. 145; p. 666.
- Miller, F. D., La Crosse, Wis. Work-basket. No. 928,207; July 13; Sp. p. 3110; Gaz. vol. 144; p. 530.
- Miller, F. H. (See Kieren, H., assignor.)
- Miller, F. J., assignor of one-fourth to E. A. Brockmann, Cincinnati, Ohio. Automatic signal and stopping device for railway-trains. No. 929,458; July 27; Sp. p. 5706; Gaz. vol. 144; p. 1002.
- Miller, F. L. (See Nunnink and Miller.)
- Miller, F. L., Barnesville, Ga. Iron-heater. No. 923,983; June 8; Sp. p. 1952; Gaz. vol. 143; p. 324.
- Miller, F. P., Bloomfield, N. J. Refrigerating mechanism. No. 915,621; Mar. 16; Sp. p. 4054; Gaz. vol. 140; p. 700.
- Miller, F. S., Creston, Iowa. Lubricator. No. 932,045; Aug. 24; Sp. p. 5163; Gaz. vol. 145; p. 881.
- Miller, F. S., assignor to Harris Air Pump Company, Indianapolis, Ind. Ejector. No. 921,138; May 11; Sp. p. 2129; Gaz. vol. 142; p. 374.
- Miller, F. W., Monroe, Wis. Punching and shearing machine. No. 926,954; July 6; Sp. p. 519; Gaz. vol. 144; p. 84.
- Miller, F. W., Monroe, Wis. Delivery-wagon. No. 935,121; Sept. 28; Sp. p. 4330; Gaz. vol. 146; p. 772.
- Miller, F. W., Chicago, Ill. Locomotive washout and refilling system. No. 934,742; Sept. 21; Sp. p. 3552; Gaz. vol. 146; p. 619.
- Miller, G. A. and L. E., St. Louis, Mo. Tapping-head or thread-cutter. No. 915,201; Mar. 16; Sp. p. 3220; Gaz. vol. 140; p. 562.
- Miller, G. A. Bu, Pittsburg, Pa. Furnace for steam-boilers. No. 911,473; Feb. 2; Sp. p. 850; Gaz. vol. 139; p. 150.
- Miller, G. E., Newton Center, and C. M. Wheaton, Newtonville, Mass.; said Wheaton assignor to said Miller. Tire. No. 929,620; July 27; Sp. p. 6026; Gaz. vol. 144; p. 1055.
- Miller, G. F. (See Weber and Miller.)
- Miller, G. F., Brooklyn, assignor to American Can Company, New York, N. Y. Spring-top powder-box. No. 927,575; July 13; Sp. p. 1778; Gaz. vol. 144; p. 318.
- Miller, G. G., Baltimore, Md. Trolley. No. 936,341; Oct. 12; Sp. p. 1537; Gaz. vol. 147; p. 263.
- Miller, G. J., Toledo, Ohio. Making battery-plates. No. 926,278; June 29; Sp. p. 6688; Gaz. vol. 143; p. 1180.
- Miller, G. J., Marco, Mont. Animal-trap. No. 928,779; July 20; Sp. p. 4298; Gaz. vol. 144; p. 749.
- Miller, G. O., assignor to L. A. Kelsey, North Tonawanda, N. Y. Boiler-stand. No. 910,938; Jan. 26; Sp. p. 5108; Gaz. vol. 138; p. 921.
- Miller, G. O., assignor to L. A. Kelsey, North Tonawanda, N. Y. Trap. No. 913,221; Feb. 23; Sp. p. 4532; Gaz. vol. 139; p. 815.
- Miller, G. O., assignor to L. A. Kelsey, North Tonawanda, N. Y. Antisiphon-trap. No. 927,667; July 13; Sp. p. 2017; Gaz. vol. 144; p. 351.
- Miller, G. R., Butler, Pa. Valve-regulator. No. 918,072; Apr. 13; Sp. p. 2265; Gaz. vol. 141; p. 407.
- Miller, G. W. (See Jennings, O. S., assignor.)
- Miller Gauge Saw and Trimmer Company. (See Miller, H. G., assignor.)
- Miller, H., Rossmoyne, Ohio. Provision-safe. No. 913,222; Feb. 23; Sp. p. 4533; Gaz. vol. 139; p. 816.
- Miller, H., Kansas City, Kans., and G. B. Hallenbeck, Kansas City, Mo. Combined trap-nest and brooder. No. 938,603; Nov. 2; Sp. p. 369; Gaz. vol. 148; p. 55.
- Miller, H. A., assignor to Miller Carbureter & Manufacturing Company, Los Angeles, Cal. Carbureter. No. 943,197; Dec. 14; Sp. p. 2596; Gaz. vol. 149; p. 425.
- Miller, H. C., Waterford, N. Y. Buttonhole-machine. No. 940,042; Nov. 16; Sp. p. 3530; Gaz. vol. 148; p. 604.
- Miller, H. C., Waterford, N. Y. Collar. No. 941,795; Nov. 30; Sp. p. 7358; Gaz. vol. 148; p. 1240.
- Miller, H. C., Waterford, N. Y., assignor, by mesne assignments, to Victor Talking Machine Company, Camden, N. J. Combined stand and horn for talking-machines. (Reissue.) No. 12,963; May 25; Sp. p. 6289; Gaz. vol. 142; p. 1088.
- Miller, H. C., Waterford, N. Y., assignor, by mesne assignments, to Victor Talking Machine Company, Camden, N. J. Combined stand and horn for talking-machines. (Reissue.) No. 13,044; Nov. 23; Sp. p. 6404; Gaz. vol. 148; p. 1071.
- Miller, H. D. (See Yeager, S., assignor.)
- Miller, H. D., assignor to Miller Non-Corrosive Metal Company, Pittsburg, Pa. Treating metals. No. 936,650; Oct. 12; Sp. p. 2222; Gaz. vol. 147; p. 368.
- Miller, H. G., assignor to Miller Gauge Saw and Trimmer Company, Denver, Colo. Metal-saw. No. 921,723; May 18; Sp. p. 3359; Gaz. vol. 142; p. 598.
- Miller, H. G., assignor to Ideal Filter Company, Cleveland, Ohio. Press. No. 939,732; Nov. 9; Sp. p. 2837; Gaz. vol. 148; p. 468.
- Miller, H. H., Lyndonville, Vt. Corn-planter. No. 919,051; Apr. 20; Sp. p. 4343; Gaz. vol. 141; p. 759.
- Miller, H. J. (See Eichorn, H. A., assignor.)
- Miller, H. J., Noblesville, Ind., assignor of one-half to A. J. Grundman, Milwaukee, Wis. Polishing implement. No. 923,871; June 8; Sp. p. 1731; Gaz. vol. 143; p. 288.
- Miller, H. S., Rochester, N. Y. Dental clamp. No. 926,583; June 29; Sp. p. 7243; Gaz. vol. 143; p. 1280.
- Miller, H. S., Elizabeth, N. J., assignor to Diehl Manufacturing Company. Brush for dynamo-electric machines. No. 938,604; Nov. 2; Sp. p. 370; Gaz. vol. 148; p. 55.
- Miller, I. B. (See Stoltzfus and Miller.)
- Miller, J., *et al.* (See Green, G., assignor.)
- Miller, J. (See Miller, T. D., assignor.)
- Miller, J., and C. M. Hansen, Youngstown, Ohio. Automatic cut-off. No. 910,939; Jan. 26; Sp. p. 5109; Gaz. vol. 138; p. 921.
- Miller, J., Cleveland, Ohio. Cabinet for bill-files. No. 941,025; Nov. 23; Sp. p. 5706; Gaz. vol. 148; p. 963.

*Alphabetical list of patentees—Continued.*

- Miller, J., Youngstown, Ohio. Automatic cut-off valve. No. 943,559; Dec. 14; Sp. p. 3266; Gaz. vol. 149; p. 550.
- Miller, J., assignor to James B. Clow & Sons, Chicago, Ill. Mechanism for operating the outlet-valves of washbasins, bath-tubs, or other receptacles. No. 941,797; Nov. 30; Sp. p. 7361; Gaz. vol. 148; p. 1241.
- Miller, J., assignor to James B. Clow & Sons, Chicago, Ill. Valve device. No. 943,837; Dec. 21; Sp. p. 3880; Gaz. vol. 149; p. 675.
- Miller, J., assignor to James B. Clow & Sons, Chicago, Ill. Valve device. No. 943,838; Dec. 21; Sp. p. 3882; Gaz. vol. 149; p. 675.
- Miller, J., Jr., Beloit, Wis., assignor to C. H. Besly, Chicago, Ill. Sliding spindle for grinding-disks. No. 911,896; Feb. 9; Sp. p. 1699; Gaz. vol. 139; p. 315.
- Miller, J., Jr., Beloit, Wis., assignor to C. H. Besly, Chicago, Ill. Feed-table for grinding-machines. No. 912,593; Feb. 16; Sp. p. 3244; Gaz. vol. 139; p. 582.
- Miller, J., Jr., Beloit, Wis., assignor to K. M. H. Besly, Chicago, Ill. Grinding-machine. No. 937,379; Oct. 19; Sp. p. 3708; Gaz. vol. 147; p. 637.
- Miller, J. A. (See Bingaman and Miller.)
- Miller, J. A., Thompsonville, Conn. Pipe connection. No. 919,913; Apr. 27; Sp. p. 6330; Gaz. vol. 141; p. 1081.
- Miller, J. A., Rosebud, Mo. Road-scraper. No. 924,810; June 15; Sp. p. 3688; Gaz. vol. 143; p. 632.
- Miller, J. A., Tarrytown, N. Y. Under-pan for automobiles. No. 925,783; June 22; Sp. p. 5652; Gaz. vol. 143; p. 980.
- Miller, J. A., Tarrytown, N. Y. Radiator. No. 937,380; Oct. 19; Sp. p. 3710; Gaz. vol. 147; p. 637.
- Miller, J. A., Homewood, Ill. Pleasure-railway. No. 937,456; Oct. 19; Sp. p. 3898; Gaz. vol. 147; p. 663.
- Miller, J. A., Baltimore, Md., assignor to Safety Appliance Company. Safety mechanism for elevators. No. 921,432; May 11; Sp. p. 2756; Gaz. vol. 142; p. 474.
- Miller, J. A., Baltimore, Md., assignor to John A. Miller Co., Washington, D. C. Envelop sealing and stamping machine. No. 930,400; Aug. 10; Sp. p. 1568; Gaz. vol. 145; p. 284.
- Miller, J. A., Baltimore, Md., assignor to J. M. Thurston, trustee, Washington, D. C. Safety device for elevators. No. 942,968; Dec. 14; Sp. p. 2013; Gaz. vol. 149; p. 349.
- Miller, J. B. (See Browne, D. L. V., assignor.)
- Miller, J. B., Rochester, N. Y. Receptacle and blank therefor. No. 926,758; July 6; Sp. p. 106; Gaz. vol. 144; p. 17.
- Miller, J. C., New Decatur, Ala. Fertilizer-distributor. No. 920,974; May 11; Sp. p. 1795; Gaz. vol. 142; p. 318.
- Miller, J. C., assignor to Miller Pasteurizing Machine Company, Canton, Ohio. Ice-cream freezer. No. 915,689; Mar. 16; Sp. p. 4208; Gaz. vol. 140; p. 725.
- Miller, J. E., Knoxville, Tenn. Sewing-machine. No. 918,184; Apr. 13; Sp. p. 2471; Gaz. vol. 141; p. 443.
- Miller, J. E., Fredonia, Kans. Adjustable staging. No. 921,431; May 11; Sp. p. 2754; Gaz. vol. 142; p. 471.
- Miller, J. E., Knoxville, Tenn. Sewing-machine. No. 924,175; June 8; Sp. p. 2358; Gaz. vol. 143; p. 386.
- Miller, J. F., assignor of one-half to W. H. Aldridge, Trail, British Columbia, Canada. Anode-mold. No. 941,796; Nov. 30; Sp. p. 7360; Gaz. vol. 148; p. 1240.
- Miller, J. G., Denver, Colo. Shoe. No. 921,433; May 11; Sp. p. 2765; Gaz. vol. 142; p. 475.
- Miller, J. G., Burlington, Iowa. Horse-detacher. No. 922,797; May 25; Sp. p. 5558; Gaz. vol. 142; p. 977.
- Miller, J. H. (See Watkins and Miller.)
- Miller, J. H., Fremont, Ohio. Railway mail catcher and deliverer. No. 917,338; Apr. 6; Sp. p. 782; Gaz. vol. 141; p. 133.
- Miller, J. H., Moss, Tenn. Window-pane holder. No. 926,348; June 29; Sp. p. 6832; Gaz. vol. 143; p. 1202.
- Miller, J. H., assignor to Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Knife-switch. No. 921,434; May 11; Sp. p. 2766; Gaz. vol. 142; p. 475.
- Miller, J. J. A., Denver, Colo. Seal for car-doors, shipping-receptacles, &c. No. 932,150; Aug. 24; Sp. p. 5385; Gaz. vol. 145; p. 918.
- Miller, J. L. (See Powell and Miller.)
- Miller, J. R., McRae, Ga. Planter. No. 912,396; Feb. 16; Sp. p. 2840; Gaz. vol. 139; p. 516.
- Miller, J. R., deceased, Morgantown, (M. M. Miller, administrator), and U. S. Huggins, Weston, W. Va. Tile. No. 927,869; July 13; Sp. p. 2433; Gaz. vol. 144; p. 416.
- Miller, J. S., Bergville, Minn. Negative-developer. No. 941,643; Nov. 30; Sp. p. 7018; Gaz. vol. 148; p. 1187.
- Miller, J. T., Kansas City, Mo. Printing-press. No. 910,704; Jan. 26; Sp. p. 4652; Gaz. vol. 138; p. 846.
- Miller, J. T., West, Tex. Cultivator. No. 912,870; Feb. 16; Sp. p. 3828; Gaz. vol. 139; p. 674.
- Miller, J. V., Judge, Mich. Road-roller. No. 925,714; June 22; Sp. p. 5489; Gaz. vol. 143; p. 957.
- Miller, J. W. (See Whitton, J. A., assignor.)
- Miller, J. W., Chicago, Ill. Dampening-machine. No. 912,592; Feb. 16; Sp. p. 3243; Gaz. vol. 139; p. 581.
- Miller, J. W., Muscatine, Iowa. Button-making machine. No. 919,914; Apr. 27; Sp. p. 6332; Gaz. vol. 144; p. 1081.
- Miller, J. W., Sr., Harrisburg, Pa. Key-wheel type-writer. No. 941,026; Nov. 23; Sp. p. 5708; Gaz. vol. 148; p. 963.
- Miller, K. B., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Check-controlled device. No. 912,397; Feb. 16; Sp. p. 2843; Gaz. vol. 139; p. 516.
- Miller, L., Beaver Dam, Ky. Valve mechanism for steam-engines. No. 908,478; Jan. 5; Sp. p. 93; Gaz. vol. 138; p. 18.
- Miller, L., Rea, Mo. Wire-stretcher. No. 914,595; Mar. 9; Sp. p. 1973; Gaz. vol. 140; p. 337.
- Miller, L. E. (See Miller, G. A. and L. E.)
- Miller, L. F., Bath township, Greene county, Ohio. Seed-potato cutter. No. 942,969; Dec. 14; Sp. p. 2015; Gaz. vol. 149; p. 349.
- Miller, L. H., Mount Eden, Cal. Interlocking device for gas-machines. No. 923,063; May 25; Sp. p. 6124; Gaz. vol. 142; p. 1063.
- Miller, L. V., Chicago, Ill., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-pulling machine. No. 931,946; Aug. 24; Sp. p. 4937; Gaz. vol. 145; p. 847.
- Miller, L. W., Fort Smith, Ark. Combination-table. No. 919,052; Apr. 20; Sp. p. 4347; Gaz. vol. 141; p. 759.
- Miller Lock Company. (See Soley, F., assignor.)
- Miller, M., St. Louis, Mo. Apparatus for treating boiler feed-water. No. 909,008; Jan. 5; Sp. p. 1184; Gaz. vol. 138; p. 189.
- Miller, M., St. Louis, Mo. Water-meter. No. 914,440; Mar. 9; Sp. p. 1665; Gaz. vol. 140; p. 285.
- Miller, M., St. Louis, Mo. Water-purifying apparatus. No. 927,267; July 6; Sp. p. 1164; Gaz. vol. 144; p. 190.
- Miller, M. B., assignor of one-half to G. W. Harvey, San Jose, Cal. Propeller. No. 914,857; Mar. 9; Sp. p. 2529; Gaz. vol. 140; p. 422.
- Miller, M. C., Boston, Mass. Controller for doors, &c. No. 943,693; Dec. 21; Sp. p. 3586; Gaz. vol. 149; p. 625.
- Miller, M. D., *et al.* (See Alderman, D. W., assignor.)
- Miller, M. K., Pittsburg, Pa. Sanitary waste-paper can. No. 913,532; Feb. 23; Sp. p. 5166; Gaz. vol. 139; p. 921.
- Miller, M. M. (See Broome, M. J. and G. A., assignors.)
- Miller, M. M., administrator. (See Miller and Huggins.)
- Miller, M. S., Lawrenceburg, Ind. Liner for linotype-machines. No. 908,593; Jan. 5; Sp. p. 345; Gaz. vol. 138; p. 56.
- Miller, N. B., assignor to Clement Restein Company, Philadelphia, Pa. Packing. No. 917,637; Apr. 6; Sp. p. 1313; Gaz. vol. 141; p. 231.
- Miller, N. B., Philadelphia, Pa., assignor to Clement Restein Company. Packing. No. 925,368; June 15; Sp. p. 4774; Gaz. vol. 143; p. 815.
- Miller Non-Corrosive Metal Company. (See Miller, H. D., assignor.)
- Miller, O. A. (See Aspenleiter and Miller.)
- Miller, O. L., *et al.* (See Allen, J. M., assignor.)
- Miller, P., Nowata, Okla. Washing-machine attachment. No. 913,904; Mar. 2; Sp. p. 504; Gaz. vol. 140; p. 81.
- Miller, P., Minto, N. D. Pneumatic stacker. No. 941,583; Nov. 30; Sp. p. 6901; Gaz. vol. 148; p. 1168.
- Miller, P. C., Markle, Ind. Hinge. No. 920,605; May 4; Sp. p. 1031; Gaz. vol. 142; p. 168.
- Miller Pasteurizing Machine Company. (See Christensen, H., assignor.)
- Miller Pasteurizing Machine Company. (See Miller, J. C., assignor.)
- Miller Pasteurizing Machine Company. (See Pfouts, L. S., assignor.)
- Miller, R., Denny, Scotland. Brooder or foster-mother for chickens. No. 908,795; Jan. 5; Sp. p. 758; Gaz. vol. 138; p. 119.
- Miller, R., Jr., Pittsburg, Pa. Wrench. No. 944,270; Dec. 28; Sp. p. 4784; Gaz. vol. 149; p. 846.
- Miller, R. A., Connersville, Ind., assignor to C. Lewis and J. J. and A. E. Heekin, Cincinnati, Ohio. Multiple sign. No. 922,015; May 18; Sp. p. 3971; Gaz. vol. 142; p. 694.
- Miller, R. E., Dayton, N. Mex. Ter. Telephone-transmitter mouthpiece. No. 931,452; Aug. 17; Sp. p. 3864; Gaz. vol. 145; p. 666.
- Miller, R. H., assignor to Laclede-Christy Clay Products Company, St. Louis, Mo. Cleaning-out apparatus for gas-producer connections. No. 924,564; June 8; Sp. p. 3150; Gaz. vol. 143; p. 514.
- Miller, R. R., Pueblo, Colo. Operating device for automatic switches. No. 932,046; Aug. 24; Sp. p. 5164; Gaz. vol. 145; p. 881.
- Miller, R. R., Pueblo, Colo. Railway-switch-operating device. No. 932,160; Aug. 24; Sp. p. 5387; Gaz. vol. 145; p. 919.
- Miller, S. F., Chicago, Ill. Siphon. No. 931,453; Aug. 17; Sp. p. 3865; Gaz. vol. 145; p. 666.
- Miller, S. J., W. M. Morlock, and P. G. Carlson, Danbury, Conn.; said Carlson assignor of four and one-sixth one-hundredths to said Miller and four and one-sixth one-hundredths to said Morlock. Collar ironing, dampening, folding, and shaping machine. No. 916,178; Mar. 23; Sp. p. 5136; Gaz. vol. 140; p. 909.
- Miller, T. A., South Hingham, Mass. Rechargeable and non-interchangeable inclosed thermal cut-out. No. 931,947; Aug. 24; Sp. p. 4940; Gaz. vol. 145; p. 847.
- Miller, T. D., New York, assignor of one-half to J. Miller, Yonkers, N. Y. Folding storm-legging. No. 921,435; May 11; Sp. p. 2767; Gaz. vol. 142; p. 475.



*Alphabetical list of patentees—Continued.*

- Miller, T. S., South Orange, N. J. Power transmitter and controller. No. 915,458; Mar. 16; Sp. p. 3710; Gaz. vol. 140; p. 645.
- Miller, T. S., South Orange, N. J. Conveying apparatus. (Reissue.) No. 12,969; June 8; Sp. p. 3291; Gaz. vol. 143; p. 537.
- Miller, T. S., South Orange, N. J. Cableway. No. 942,038; Nov. 30; Sp. p. 7846; Gaz. vol. 148; p. 1322.
- Miller, T. S., South Orange, N. J. Cableway. No. 943,032; Dec. 14; Sp. p. 2165; Gaz. vol. 148; p. 370.
- Miller, T. S., South Orange, N. J. Collier and coal-handling apparatus. No. 943,694; Dec. 21; Sp. p. 3537; Gaz. vol. 149; p. 625.
- Miller, T. S., South Orange, and J. H. Dickinson, Montclair, N. J. Log-skidding machine. No. 914,441; Mar. 9; Sp. p. 1667; Gaz. vol. 140; p. 285.
- Miller, T. W., Akron, assignor to Faultless Rubber Company, Ashland, Ohio. Nipple. No. 926,011; June 22; Sp. p. 6108; Gaz. vol. 143; p. 1056.
- Miller, W., New York, N. Y. Hot-air furnace. No. 942,655; Dec. 7; Sp. p. 1298; Gaz. vol. 149; p. 212.
- Miller, W. B., Louisville, Ohio. Self-adjusting pendulum escapement. No. 933,381; Sept. 7; Sp. p. 797; Gaz. vol. 146; p. 123.
- Miller, W. B., Altoona, Pa. Dental instrument. No. 943,884; Dec. 21; Sp. p. 3976; Gaz. vol. 149; p. 690.
- Miller, W. C., Chamois, Mo. Mail-bag catching and delivering mechanism. No. 923,872; June 8; Sp. p. 1732; Gaz. vol. 143; p. 289.
- Miller, W. E. (See Mellinger, A. C., assignor.)
- Miller, W. E., Salt Lake City, Utah. Device for applying protectors to fulminating-caps. No. 931,454; Aug. 17; Sp. p. 3868; Gaz. vol. 145; p. 667.
- Miller, W. H., Independence, Mo. Compressor. No. 936,143; Oct. 5; Sp. p. 1149; Gaz. vol. 147; p. 174.
- Miller, W. H., Bridgewater, Va. Plant-pulling implement. No. 941,644; Nov. 30; Sp. p. 7021; Gaz. vol. 148; p. 1188.
- Miller, W. I. (See Lefebvre and Miller.)
- Miller, W. J., Cleveland, Ohio. Massaging device. No. 912,016; Feb. 9; Sp. p. 2038; Gaz. vol. 139; p. 355.
- Miller, W. J., Coffeyville, Kans. Glass-molding machine. No. 937,626; Oct. 19; Sp. p. 4227; Gaz. vol. 147; p. 720.
- Miller, W. J., Coffeyville, Kans. Glass-molding machine. No. 941,935; Nov. 30; Sp. p. 7659; Gaz. vol. 148; p. 1290.
- Miller, W. R. (See Marshall, J., assignor.)
- Miller, W. R., *et al.* (See Schmidt, H. C., assignor.)
- Miller, W. R., assignor to Fortner Miller Engineering Company, Pittsburg, Pa. Wind-box for gas-producers. No. 908,479; Jan. 5; Sp. p. 94; Gaz. vol. 138; p. 18.
- Miller, W. S., Kansas City, Mo. Skater's support. No. 923,556; June 1; Sp. p. 987; Gaz. vol. 143; p. 151.
- Miller, W. S., assignor to St. Louis Car Company, St. Louis, Mo. Draft-rigging. No. 918,185; Apr. 13; Sp. p. 2476; Gaz. vol. 141; p. 443.
- Miller, W. S., assignor to St. Louis Car Company, St. Louis, Mo. Draft-rigging. No. 926,279; June 29; Sp. p. 6689; Gaz. vol. 143; p. 1180.
- Millers Falls Company. (See Leland, H. J., assignor.)
- Millers Falls Company. (See Leland, J. A., assignor.)
- Millers Falls Company. (See Leland and Stebbins, assignors.)
- Millers Falls Company. (See Parsons, W. J., assignor.)
- Millers Falls Company. (See Parsons and Leland, assignors.)
- Millers Falls Company. (See Stebbins, W. G., assignor.)
- Milleson, H. E., Shelbyville, Ind. Key-ring tag. No. 930,776; Aug. 10; Sp. p. 2369; Gaz. vol. 145; p. 410.
- Millet, J. B. (See Wood, Durkee, Kelley, and Millet.)
- Millet, J. B., assignor to Millet Signal Company, Boston, Mass. Submarine signaling. No. 933,720; Sept. 7; Sp. p. 1551; Gaz. vol. 146; p. 235.
- Millet Signal Company. (See Millet, J. B., assignor.)
- Millhouse, E. D., assignor of one-half to J. F. Pyle, Wabash, Ind. Burial-vault. No. 921,554; May 11; Sp. p. 2992; Gaz. vol. 142; p. 514.
- Millice, P. S., Hamilton, Ohio. Flushing apparatus. No. 938,683; Nov. 2; Sp. p. 526; Gaz. vol. 148; p. 81.
- Millier, H. G., *et al.* (See Hughes, W. G., assignor.)
- Milligan, C. A., Taylorville, Ill. Latch. No. 922,177; May 18; Sp. p. 4276; Gaz. vol. 142; p. 746.
- Milligan, J. H. (See Russell, J., assignor.)
- Milligan, M. E. (See Nurse, R. R., assignor.)
- Milligan, S. A. (See Long and Milligan.)
- Milliken, F., New York, N. Y. Tower or pole. No. 923,557; June 1; Sp. p. 988; Gaz. vol. 143; p. 152.
- Milliken, F. W., assignor of one-half to C. C. Brown, Auburn, Me. Automatic sprinkler alarm and indicator. No. 909,311; Jan. 12; Sp. p. 1797; Gaz. vol. 138; p. 322.
- Milliken, G. B., and A. B. Weaver, Bethlehem, Pa. Auxiliary passenger-car step. No. 937,034; Oct. 19; Sp. p. 3076; Gaz. vol. 147; p. 540.
- Milliron, O. R., Youngwood, assignor of one-half to C. B. Shepler, Greensburg, Pa. Operating means for signal-lanterns. No. 928,208; July 13; Sp. p. 3111; Gaz. vol. 144; p. 530.
- Millis, F. W., Teddington, and A. Carlton, Clapham Junction, London, England. Door-securer. No. 934,558; Sept. 21; Sp. p. 3188; Gaz. vol. 146; p. 556.
- Millis, L., Chicago, Ill. Car-door construction. No. 927,992; July 13; Sp. p. 2678; Gaz. vol. 144; p. 457.
- Millis, W. H., Canastota, N. Y. Window-screen. No. 924,258; June 8; Sp. p. 2550; Gaz. vol. 143; p. 415.
- Millison, B. B. (See Forester, L., assignor.)
- Mills, A. L. (See Johnson and Mills.)
- Mills Automatic Press Co. (See Hodge, A. J., assignor.)
- Mills, B. L., assignor of one-half to A. B. Crawford, Hastings, Nebr. Air-tight cistern. No. 926,674; June 29; Sp. p. 7428; Gaz. vol. 143; p. 1310.
- Mills, C., Newton Upper Falls, Mass., assignor to W. C. Swift, Chicago, Ill. Molding-machine. No. 938,684; Nov. 2; Sp. p. 529; Gaz. vol. 148; p. 81.
- Mills, C. B., Wilmerding, Pa., assignor to Westinghouse Electric & Manufacturing Company. Commutator-brush. No. 910,214; Jan. 19; Sp. p. 3608; Gaz. vol. 138; p. 655.
- Mills, C. R., Malden, Mass. Quick-acting safety-valve. No. 934,083; Sept. 14; Sp. p. 2276; Gaz. vol. 146; p. 373.
- Mills, D., Philadelphia, Pa., assignor to Standard Sewing Machine Company, Cleveland, Ohio. Bobbin-thread controller for sewing-machines. No. 927,993; July 13; Sp. p. 2680; Gaz. vol. 144; p. 457.
- Mills, E. J., Webb, Iowa. Road-drag. No. 916,179; Mar. 23; Sp. p. 5141; Gaz. vol. 140; p. 909.
- Mills, E. L., Los Angeles, Cal. Stuffing-box. No. 916,573; Mar. 30; Sp. p. 5941; Gaz. vol. 140; p. 1065.
- Mills, E. N., and G. W. Smith, assignors, by mesne assignments, to Hoag Rapid Press Company, San Francisco, Cal. Printing-press. No. 933,322; Sept. 7; Sp. p. 650; Gaz. vol. 146; p. 101.
- Mills, E. R., and C. A. Conn, assignors to W. S. Elliott, Pittsburg, Pa. Rotary motor. No. 914,155; Mar. 2; Sp. p. 1061; Gaz. vol. 140; p. 138.
- Mills, F. A. (See Schweinler, H. R., assignor.)
- Mills, F. A., Lawrence, Mass. Loom. No. 935,802; Oct. 5; Sp. p. 413; Gaz. vol. 147; p. 61.
- Mills, H. S. (See Sandell, H. K., assignor.)
- Mills, H. S., Chicago, Ill. Moving-picture machine. No. 916,751; Mar. 30; Sp. p. 6253; Gaz. vol. 140; p. 1119.
- Mills, H. S., Chicago, Ill. Vending-machine. No. 918,882; Apr. 20; Sp. p. 4004; Gaz. vol. 141; p. 703.
- Mills, H. S., Chicago, Ill. Moving-picture machine. No. 918,883; Apr. 20; Sp. p. 4009; Gaz. vol. 141; p. 704.
- Mills, H. S., Chicago, Ill. Moving-picture machine. No. 918,884; Apr. 20; Sp. p. 4013; Gaz. vol. 141; p. 704.
- Mills, H. S., Chicago, Ill. Coin-operated box. No. 918,885; Apr. 20; Sp. p. 4015; Gaz. vol. 141; p. 704.
- Mills, H. S., Chicago, Ill. Phonograph-machine. No. 929,775; Aug. 3; Sp. p. 301; Gaz. vol. 145; p. 52.
- Mills, H. S., Chicago, Ill. Lens-holder. No. 929,776; Aug. 3; Sp. p. 306; Gaz. vol. 145; p. 52.
- Mills, H. S., Chicago, Ill. Bracket device. No. 930,209; Aug. 3; Sp. p. 1211; Gaz. vol. 145; p. 199.
- Mills, H. S., Chicago, Ill. Lens-holder. No. 930,210; Aug. 3; Sp. p. 1212; Gaz. vol. 145; p. 199.
- Mills, H. S., Chicago, Ill. Phonograph. No. 943,313; Dec. 14; Sp. p. 2750; Gaz. vol. 149; p. 465.
- Mills, J. A., Palestine, Ill. Lifting-jack. No. 912,270; Feb. 9; Sp. p. 2534; Gaz. vol. 139; p. 435.
- Mills, J. E., Chapel Hill, N. C., assignor of one-fourth to H. B. Battle, Montgomery, Ala. Extracting oil from cotton-seed or other oleaginous material. No. 913,751; Mar. 2; Sp. p. 156; Gaz. vol. 140; p. 26.
- Mills, J. H., Richmond, Ind. Plastic composition. No. 930,777; Aug. 10; Sp. p. 2370; Gaz. vol. 145; p. 410.
- Mills, J. X., Pine Village, Ind. Harrow. No. 919,053; Apr. 20; Sp. p. 4349; Gaz. vol. 141; p. 759.
- Mills, M. A., Lawrence, Mass. Shaft-mounting for rotary pumps. No. 934,084; Sept. 14; Sp. p. 2278; Gaz. vol. 146; p. 374.
- Mills, M. B., assignor to Zeno Manufacturing Company, Chicago, Ill. Coin-controlled vending-machine. No. 918,886; Apr. 20; Sp. p. 4018; Gaz. vol. 141; p. 705.
- Mills, M. B., assignor to Zeno Manufacturing Company, Chicago, Ill. Coin-chute mechanism for vending-machines. No. 944,983; Dec. 28; Sp. p. 6351; Gaz. vol. 149; p. 1090.
- Mills, M. M., New York, N. Y. Horseshoe-pad. No. 916,750; Mar. 30; Sp. p. 6252; Gaz. vol. 140; p. 1119.
- Mills Novelty Company. (See Sandell, H. K., assignor.)
- Mills, R. P., and C. A. Taylor, Mount Vernon, N. Y. Eaves gutter or trough. No. 929,684; Aug. 3; Sp. p. 86; Gaz. vol. 145; p. 16.
- Mills, R. W., Chicago, Ill. Music-holder. No. 922,610; May 25; Sp. p. 5179; Gaz. vol. 142; p. 916.
- Mills, R. W., Chicago, Ill. Music-rack. No. 943,091; Dec. 14; Sp. p. 2303; Gaz. vol. 149; p. 390.
- Mills, S. H., Montpelier, Vt. Polishing-wheel for stone. No. 930,778; Aug. 10; Sp. p. 2372; Gaz. vol. 145; p. 410.

*Alphabetical list of patentees—Continued.*

- Mills T., assignor of one-half to S. A. Guiberson, Jr., Coalinga, Cal. Pipe and casing tongs. No. 934,332; Sept. 14; Sp. p. 2754; Gaz. vol. 146; p. 457.
- Mills, T. M., San Antonio, Tex. Nut-lock. No. 924,259; June 8; Sp. p. 2551; Gaz. vol. 143; p. 415.
- Mills, W. (See Biberman and Mills.)
- Mills, W. A. (See Barnes, S., assignor.)
- Mills, W. A., Port Chester, N. Y. Gas stove or range. No. 910,301; Jan. 19; Sp. p. 3822; Gaz. vol. 138; p. 688.
- Mills, W. F., South Bend, Ind. Machine for making concrete blocks. No. 929,459; July 27; Sp. p. 5709; Gaz. vol. 144; p. 1002.
- Mills Woven Cartridge Belt Company. (See Batchelder, F. R., assignor.)
- Mills Woven Cartridge Belt Company. (See Jennings, V. H., assignor.)
- Millsaps, D. W., Lumberton, N. C. Mail-bag deliverer and receiver. No. 914,442; Mar. 9; Sp. p. 1669; Gaz. vol. 140; p. 285.
- Millward, T. (See Paris and Millward.)
- Milne, C. D., assignor to Century Brass Manufacturing Company, Cattaraugus, N. Y. Slip-joint for pipes. No. 936,469; Oct. 12; Sp. p. 1839; Gaz. vol. 147; p. 305.
- Milne, J., Jr., Cleveland, Tenn. Abrading-machine. No. 919,054; Apr. 20; Sp. p. 4350; Gaz. vol. 141; p. 759.
- Milne, R., Rockford, Ill., assignor to Rockford Drilling Machine Company. Gearing. No. 913,417; Feb. 23; Sp. p. 4931; Gaz. vol. 139; p. 882.
- Milne, R., Rockford, Ill., assignor to Rockford Drilling Machine Company. Tapping attachment for drilling-machines. No. 928,780; July 20; Sp. p. 4299; Gaz. vol. 144; p. 750.
- Milne, R., assignor to Rockford Drilling Machine Company, Rockford, Ill. Differential positive-feed mechanism. No. 940,342; Nov. 16; Sp. p. 4209; Gaz. vol. 148; p. 709.
- Milner, A. R., assignor to A. R. Milner Seating Co., Canal Dover, Ohio. Opera-chair. No. 925,492; June 22; Sp. p. 5016; Gaz. vol. 143; p. 885.
- Milner, E. H., Stockbridge, Mich. Chair. No. 941,160; Nov. 23; Sp. p. 5991; Gaz. vol. 148; p. 1008.
- Milner, G., assignor to Milner Power Multiplying Machine Co., Incorporated, Brooklyn, N. Y. Power-transmission gearing. No. 910,215; Jan. 19; Sp. p. 3609; Gaz. vol. 138; p. 655.
- Milner, J. S. (See Gilson, S. H., assignor.)
- Milner Power Multiplying Machine Co. (See Milner, G., assignor.)
- Milson, J. R., Watertown, Mass., assignor, by mesne assignments, to Lister-Noble Roller Company. Drawing-off roll. No. 911,317; Feb. 2; Sp. p. 582; Gaz. vol. 139; p. 99.
- Miltner E., Newark, N. J., assignor to Rubber & Celluloid Harness Trimming Co. Die for forming plastic-compound ferrules or rings. No. 927,421; July 6; Sp. p. 1442; Gaz. vol. 144; p. 239.
- Miltner, E., assignor to Rubber & Celluloid Harness Trimming Co., Newark, N. J. Brush. No. 932,630; Aug. 31; Sp. p. 6364; Gaz. vol. 145; p. 1098.
- Milton, B. F. (See Chase and Milton.)
- Milton, J. F., assignor of one-third to F. C. Bailey and one-third to C. J. Grainger, Palestine, Tex. Oil-burner. No. 937,218; Oct. 19; Sp. p. 3369; Gaz. vol. 147; p. 584.
- Milum, J. B. (See Forkner and Milum.)
- Millward, W. T., Handsworth, England. Device for holding down mats, carpets, or the like. No. 910,940; Jan. 26; Sp. p. 5112; Gaz. vol. 138; p. 921.
- Milwaukee Brass Manufacturing Company. (See Engel, A., assignor.)
- Milwaukee Dustless Brush Company. (See Hunt, F. S., assignor.)
- Milwaukee Hardware Manufacturing Company. (See Ashley, L. W., assignor.)
- Milwaukee Stamping Co. (See Erickson, E. S., assignor.)
- Milwaukee Stamping Co. (See Petri, W. J., assignor.)
- Mims, O. W., Dardanelle, Ark. Ironing-board. No. 919,055; Apr. 20; Sp. p. 4353; Gaz. vol. 141; p. 760.
- Minagawa, Y. (See Shimura and Minagawa.)
- Minahan, J. T., Philadelphia, Pa. Trolley. No. 919,449; Apr. 27; Sp. p. 5345; Gaz. vol. 141; p. 924.
- Minard, C. A. (See Sprague, J., assignor.)
- Minder, E. G., Bisbee, Ariz. Ter. File case or cabinet. No. 909,440; Jan. 12; Sp. p. 2037; Gaz. vol. 138; p. 362.
- Minderlein, W., New Britain, assignor to J. and M. Solomon, Hartford, Conn. Door-securer. No. 913,223; Feb. 23; Sp. p. 4535; Gaz. vol. 139; p. 816.
- Miner, C. G., New Richmond, Wis. Cover-releasing means. No. 930,306; Aug. 3; Sp. p. 1377; Gaz. vol. 145; p. 229.
- Miner, D. O., Hawarden, Iowa, assignor of one-half to R. C. Miner, Sioux Falls, S. D. Wire-stretcher. No. 915,368; Mar. 16; Sp. p. 3526; Gaz. vol. 140; p. 615.
- Miner Engineering Company. (See Miner, F. J., assignor.)
- Miner, F. J., assignor to Miner Engineering Company, Detroit, Mich. Blower or pump. No. 940,984; Nov. 23; Sp. p. 5601; Gaz. vol. 148; p. 949.
- Miner, H. L., Brandon, Vt. Box. No. 939,287; Nov. 9; Sp. p. 1822; Gaz. vol. 148; p. 315.
- Miner, J. D., *et al.* (See Dirking, P. L., assignor.)
- Miner, J. H., Lumberton, Miss. Insertible saw-tooth. No. 926,675; June 29; Sp. p. 7428; Gaz. vol. 143; p. 1310.
- Miner, J. R., *et al.* (See McCullough, S. A., assignor.)
- Miner, R. C. (See Miner, D. O., assignor.)
- Miner, S. A., Camrose, Alberta, Canada. Non-refillable bottle. No. 939,430; Nov. 9; Sp. p. 2194; Gaz. vol. 148; p. 364.
- Miner, W. C., Three Rivers, Mich. Berry-box. No. 925,935; June 22; Sp. p. 5970; Gaz. vol. 143; p. 1031.
- Miner, W. H., assignor to W. H. Miner Company, Chicago, Ill. Bolster for cars or other vehicles. No. 926,432; June 29; Sp. p. 6986; Gaz. vol. 143; p. 1230.
- Miniature Telephone Booth Co. (See Goodrich, O. H., assignor.)
- Miniature Telephone Booth Co. (See Hutton and Ellis, assignors.)
- Miniature Telephone Booth Co. (See Kintner, C. J., assignor.)
- Minier, W. H., Toledo, Ohio. Window-cleaner. No. 924,685; June 15; Sp. p. 3423; Gaz. vol. 143; p. 589.
- Minife, W. A., assignor to W. H. Beattie, Little Falls, N. J. Woven pile fabric. No. 923,682; June 1; Sp. p. 1254; Gaz. vol. 143; p. 194.
- Minih, F. (See Minih, J. and F.)
- Minih, J. and F., Pittsburgh, Pa. Rail-joint. No. 933,482; Sept. 7; Sp. p. 1074; Gaz. vol. 146; p. 155.
- Minimax Consolidated. (See Mikorey and Wagener, assignors.)
- Minimax Consolidated Limited. (See Graaff, C., assignor.)
- Minion, J. S., Newark, N. J. Kennel. No. 920,975; May 11; Sp. p. 1796; Gaz. vol. 142; p. 318.
- Minnaugh, J. and W., Valley City, N. D. Brake mechanism for traction-engines. No. 911,148; Feb. 2; Sp. p. 253; Gaz. vol. 139; p. 44.
- Minnaugh, W. (See Minnaugh, J. and W.)
- Minneman, E. G., Richmond, Ind. Pie trimmer and crimper. No. 912,709; Feb. 16; Sp. p. 3493; Gaz. vol. 139; p. 623.
- Minnich, F. H., Dedham, Iowa. Coupling for hay rakes and loaders. No. 926,349; June 29; Sp. p. 6833; Gaz. vol. 143; p. 1202.
- Minnich, M. C. (See Minnich, S. B., assignor.)
- Minnich, S. B., assignor to M. C. Minnich, Landisville, Pa. Street-crossing. No. 910,705; Jan. 26; Sp. p. 4657; Gaz. vol. 138; p. 846.
- Minnich, S. B., assignor to M. C. Minnich, Landisville, Pa. Portable telescoping elevator. No. 937,256; Oct. 19; Sp. p. 3462; Gaz. vol. 147; p. 698.
- Minnier, B. J., Watertown, N. Y., assignor to New York Air Brake Company. Pressure-retaining valve. No. 925,211; June 15; Sp. p. 4494; Gaz. vol. 143; p. 768.
- Minns, W. J., New York, N. Y. Water-conductor. No. 915,459; Mar. 16; Sp. p. 3716; Gaz. vol. 140; p. 645.
- Minor, J., Atlanta, Ga. Toy. No. 925,369; June 15; Sp. p. 4775; Gaz. vol. 143; p. 815.
- Minor, L. C., Cincinnati, Ohio. Bleaching rosin. No. 939,733; Nov. 9; Sp. p. 2840; Gaz. vol. 143; p. 468.
- Minor, W. F., New York, N. Y., and C. W. Heck, East Orange, N. J., assignors to National Electric Lamp Company, Cleveland, Ohio. Shade and socket holder. No. 924,260; June 8; Sp. p. 2552; Gaz. vol. 143; p. 415.
- Minor, W. F., New York, N. Y., and C. W. Heck, East Orange, N. J., assignors, by mesne assignments, to National Electric Lamp Company, Cleveland, Ohio. Shade and socket holder. No. 924,261; June 8; Sp. p. 2554; Gaz. vol. 143; p. 416.
- Minor, W. S., Cunningham, Tenn. Rotary engine. No. 920,976; May 11; Sp. p. 1797; Gaz. vol. 142; p. 376.
- Minor, W. T., White Rock, Okla. Yoke. No. 915,202; Mar. 16; Sp. p. 3221; Gaz. vol. 140; p. 562.
- Mintel, W. F., Pawtucket, R. I. Means for applying wax to loom-warp. No. 940,607; Nov. 16; Sp. p. 4787; Gaz. vol. 148; p. 798.
- Mints, J. L. (See Williams, W. M., assignor.)
- Minue, W. E., assignor of one-half to W. C. Burt, Fredericton, New Brunswick, Canada. Rotary steam-engine. No. 942,275; Dec. 7; Sp. p. 525; Gaz. vol. 149; p. 83.
- Minzy, G. A., assignor of one-half to H. F. Woodard, Campello, Mass. Shoe-form. No. 927,157; July 6; Sp. p. 947; Gaz. vol. 144; p. 154.
- Miotke, J., Milwaukee, Wis. Attachment for floor-scrapers. No. 927,742; July 13; Sp. p. 2157; Gaz. vol. 144; p. 374.
- Miracle, M. W., assignor of one-half to A. M. Sosbee, Ardmore, Okla. Combined washing, fruit-canning, and cooking machine. No. 943,152; Dec. 14; Sp. p. 2426; Gaz. vol. 149; p. 412.



*Alphabetical list of patentees—Continued.*

- Miracle Pressed Stone Company. (See Simpson, C., assignor.)  
 Mirco Fuel-Oil Equipment Company. (See Scrimgeour, W., assignor.)  
 Mirco Fuel-Oil Equipment Company. (See Scrimgeour, W., Jr., assignor.)  
 Mirgan, J. S., Lancaster, Ohio. Checkrein. No. 940,886; Nov. 23; Sp. p. 5405; Gaz. vol. 148; p. 916.  
 Mirus, E., Liege, Belgium. Type setting and distributing machine. No. 913,224; Feb. 23; Sp. p. 4536; Gaz. vol. 139; p. 816.  
 Misch, A. K., *et al.* (See Beahm, H. S., assignor.)  
 Misch, G., *et al.* (See Beahm, H. S., assignor.)  
 Misch, H. R. H., *et al.* (See Beahm, H. S., assignor.)  
 Miser, C. E., Watertown, N. Y. Automatic cylinder-cock. No. 913,965; Mar. 2; Sp. p. 648; Gaz. vol. 140; p. 102.  
 Miskin, A. R., Idaho Falls, Idaho. Spring-wheel. No. 941,329; Nov. 23; Sp. p. 6346; Gaz. vol. 148; p. 1061.  
 Mississippi Glass Company. (See Franzen, N., assignor.)  
 Mississippi Glass Company. (See Walsh, R. A. B., assignor.)  
 Mississippi Wire Glass Company. (See Swearer and Toynbee, assignors.)  
 Missman, F. A., Kansas City, Mo. Engraving-block. No. 915,872; Mar. 23; Sp. p. 4562; Gaz. vol. 140; p. 810.  
 Missouri Electric Storage Battery Company. (See Stirlen and Gardiner, assignors.)  
 Mitats, J., Ripollet, Spain. Artificial marble. No. 928,061; July 13; Sp. p. 2824; Gaz. vol. 144; p. 481.  
 Mitcham, W., Albany, Oreg. Milk-cooler. No. 913,418; Feb. 23; Sp. p. 4935; Gaz. vol. 139; p. 883.  
 Mitchell, E. W., Beaumont, Tex. Refrigerator. No. 944,369; Dec. 28; Sp. p. 5007; Gaz. vol. 149; p. 881.  
 Mitchell, A. J. (See Mitchell, G. A., A. J., and E. E.)  
 Mitchell, A. R., Lincoln, Neb. Dentador or sanitary cuspidor. No. 925,587; June 22; Sp. p. 5213; Gaz. vol. 143; p. 917.  
 Mitchell, A. M., Nashville, Tenn. Automatic switch-throwing device. No. 935,043; Sept. 28; Sp. p. 4157; Gaz. vol. 146; p. 745.  
 Mitchell, A. W., assignor to J. N. Leonard, trustee, New Haven, Conn. Paste-applying mechanism for paper-box machines. No. 936,796; Oct. 12; Sp. p. 2505; Gaz. vol. 147; p. 417.  
 Mitchell, C. B., assignor of one-fourth to H. B. Hurt and one-fourth to J. W. McCrary, Franklin, Tex. Telephone attachment. No. 941,086; Nov. 23; Sp. p. 5826; Gaz. vol. 148; p. 983.  
 Mitchell, C. E., assignor to Stanley Rule & Level Company, New Britain, Conn. Screw-driver. No. 918,073; Apr. 13; Sp. p. 2266; Gaz. vol. 141; p. 407.  
 Mitchell, C. E., New York, N. Y., and E. A. Schade, assignors to Stanley Rule & Level Company, New Britain, Conn. Plane. No. 930,307; Aug. 3; Sp. p. 1378; Gaz. vol. 145; p. 229.  
 Mitchell, C. I., Chicago, Ill. Lantern. No. 923,288; June 1; Sp. p. 410; Gaz. vol. 143; p. 58.  
 Mitchell, C. W., Brooklyn, N. Y. Box-strap supply reel. No. 919,371; Apr. 27; Sp. p. 5179; Gaz. vol. 141; p. 898.  
 Mitchell, E. E. (See Mitchell, G. A., A. J., and E. E.)  
 Mitchell, E. E. (See Owens, Rowe, and Mitchell.)  
 Mitchell, E. G. (See Harsant, H., assignor.)  
 Mitchell, E. R., Philadelphia, Pa. Vehicle-sash fastener. No. 935,389; Sept. 28; Sp. p. 4856; Gaz. vol. 146; p. 858.  
 Mitchell, F., London, England. Device for stropping double-edged safety-razors. No. 928,318; July 20; Sp. p. 3402; Gaz. vol. 144; p. 698.  
 Mitchell, F. A. (See Cumler, H. A., assignor.)  
 Mitchell, F. C., Milwaukee, Wis. Shipping-box. (Reissue.) No. 12,968; June 1; Sp. p. 1597; Gaz. vol. 143; p. 240.  
 Mitchell, F. E. (See Sage and Mitchell.)  
 Mitchell, F. M., La Grange, Ill. Washing-machine. No. 920,977; May 11; Sp. p. 1800; Gaz. vol. 142; p. 319.  
 Mitchell, F. W., Valparaiso, Ind., assignor, by mesne assignments, to Wallace Invalid Bed Company. Invalid-bed. No. 933,323; Sept. 7; Sp. p. 654; Gaz. vol. 146; p. 101.  
 Mitchell, G. A., A. J., and E. E., assignors to Roadmont Company, Limited, London, England. Construction of roadways, footways, and the like. No. 923,195; June 1; Sp. p. 156; Gaz. vol. 143; p. 26.  
 Mitchell, G. P., Shenandoah, Iowa. Window-blind. No. 916,752; Mar. 30; Sp. p. 6254; Gaz. vol. 140; p. 1119.  
 Mitchell, G. P., Shenandoah, Iowa. Window-blind. No. 922,798; May 25; Sp. p. 5560; Gaz. vol. 142; p. 977.  
 Mitchell, G. V., Bayonne, N. J. Self-dumping and automatic bailing scow. No. 933,657; Sept. 7; Sp. p. 1408; Gaz. vol. 146; p. 211.  
 Mitchell, H. B. (See Carlin, E. A., assignor.)  
 Mitchell, H. G., New York, assignor to F. C. Johnson, Mill Neck, N. Y. Coal-basket. No. 944,807; Dec. 28; Sp. p. 5993; Gaz. vol. 149; p. 1031.  
 Mitchell, H. M., Salt Lake City, Utah. Switch-rod. No. 919,056; Apr. 20; Sp. p. 4354; Gaz. vol. 141; p. 760.  
 Mitchell, J., assignor to Mitchell Shoe Lining Company, Detroit, Mich. Shoe-lining. No. 912,398; Feb. 16; Sp. p. 2346; Gaz. vol. 139; p. 516.  
 Mitchell, J. C., Newport News, Va., and C. Meriwether, Montclair, N. J., assignors to Lock Joint Pipe Company, New York, N. Y. Apparatus for handling concrete-pipe sections. No. 933,093; Sept. 7; Sp. p. 119; Gaz. vol. 146; p. 20.  
 Mitchell, J. E., St. Louis, Mo. Apparatus for generating gases by electric discharges in air. No. 932,161; Aug. 24; Sp. p. 5388; Gaz. vol. 145; p. 919.  
 Mitchell, J. F. (See Mitchell, W. and J. F.)  
 Mitchell, J. F., *et al.* (See Mather, D. H., assignor.)  
 Mitchell, J. H., Philadelphia, Pa. Cake-icing machine. No. 916,753; Mar. 30; Sp. p. 6257; Gaz. vol. 140; p. 1119.  
 Mitchell, J. J., Newburgh, N. Y. Box. No. 935,674; Oct. 5; Sp. p. 108; Gaz. vol. 147; p. 18.  
 Mitchell, J. L., Denver, Colo. Valve mechanism for rock-drills, *etc.* No. 909,923; Jan. 19; Sp. p. 3013; Gaz. vol. 138; p. 558.  
 Mitchell, J. N., assignor of one-third to S. De Nedrey, Washington, D. C. Combined match-sale and cigar-cutter. No. 909,441; Jan. 12; Sp. p. 2038; Gaz. vol. 138; p. 363.  
 Mitchell, J. R., Montclair, N. J. Thread-guide. No. 920,486; May 4; Sp. p. 785; Gaz. vol. 142; p. 127.  
 Mitchell, J. S., and F. M. Overholt, Minneapolis, Minn. Revolving door. No. 929,235; July 27; Sp. p. 5240; Gaz. vol. 144; p. 928.  
 Mitchell, J. W., and W. O. Walker, Kingston, Ontario, Canada. Apparatus for determining the amount of moisture in cheese and the like. No. 920,773; May 4; Sp. p. 1869; Gaz. vol. 142; p. 222.  
 Mitchell, L. E. (See Noble and Mitchell.)  
 Mitchell, L. J. (See Grass, H. A., assignor.)  
 Mitchell, L. L. (See Parker, J. N., assignor.)  
 Mitchell, Lewis & Staver Co. (See Boucher, L., assignor.)  
 Mitchell, M., Wichita, Kans. Handcuff. No. 936,797; Oct. 12; Sp. p. 2506; Gaz. vol. 147; p. 417.  
 Mitchell, N., *et al.* (See Flynn, J., assignor.)  
 Mitchell-Parks Manufacturing Company. (See Parks, D., assignor.)  
 Mitchell, R. J. C., Swindley, Lincoln, England. Printing on felt and the like. No. 935,675; Oct. 5; Sp. p. 109; Gaz. vol. 147; p. 19.  
 Mitchell, R. P., and R. V. Brawley, Statesville, N. C. Damper-regulator. No. 935,390; Sept. 28; Sp. p. 4857; Gaz. vol. 146; p. 859.  
 Mitchell, R. S., Morgantown, Ind. Apparatus for handling fluid fuel. No. 936,470; Oct. 12; Sp. p. 1841; Gaz. vol. 147; p. 306.  
 Mitchell, S. H., Salt Lake City, Utah. Loose-leaf binder. No. 928,993; July 27; Sp. p. 4738; Gaz. vol. 144; p. 849.  
 Mitchell, S. H., Salt Lake City, Utah. Loose-leaf binder. No. 932,801; Aug. 31; Sp. p. 6730; Gaz. vol. 145; p. 1154.  
 Mitchell Shoe Lining Company. (See Mitchell, J., assignor.)  
 Mitchell, T. (See Cook, F. E., assignor.)  
 Mitchell, T. (See Smith, E. H., assignor.)  
 Mitchell, W. and J. F., Milwaukee, Wis. Carrier-track. No. 931,455; Aug. 17; Sp. p. 3870; Gaz. vol. 145; p. 667.  
 Mitchell, W. A., Newburgh, N. Y. Christmas-tree holder. No. 909,634; Jan. 12; Sp. p. 2425; Gaz. vol. 138; p. 430.  
 Mitchell, W. C., Chesterfield, England. Apparatus for charging and distributing the stock in blast-furnaces, *etc.* No. 908,594; Jan. 5; Sp. p. 347; Gaz. vol. 138; p. 56.  
 Mitchell, W. C., Sydney, Nova Scotia, Canada. Excavating-bucket. No. 925,588; June 22; Sp. p. 5216; Gaz. vol. 143; p. 917.  
 Mitchell, W. D., Toronto, Ontario, Canada. Machine for turning rings from tubes. No. 938,013; Oct. 26; Sp. p. 5036; Gaz. vol. 147; p. 867.  
 Mitchell, W. F. (See Baker, W. J., assignor.)  
 Mitchell, W. M., Pratt City, Ala. Car-derailing device. No. 923,683; June 1; Sp. p. 1255; Gaz. vol. 143; p. 195.  
 Mitchellson, A. R., *et al.* (See Simmons, C. L., assignor.)  
 Mitchem, J. F., Elizabeth, N. J. Cloth-holding device. No. 934,743; Sept. 21; Sp. p. 3554; Gaz. vol. 146; p. 620.  
 Mitchem, J. F., Elizabeth, N. J. Cloth-holding device. No. 934,744; Sept. 21; Sp. p. 3555; Gaz. vol. 146; p. 620.  
 Mitkiewicz-Joltok, W., St. Petersburg, Russia. Raising naphtha. No. 934,745; Sept. 21; Sp. p. 3556; Gaz. vol. 146; p. 620.  
 Mitman, M. M., Bethlehem, Pa. Metallic railway-tie. No. 929,685; Aug. 3; Sp. p. 87; Gaz. vol. 145; p. 17.  
 Mitred Box Company. (See Klein, A., assignor.) (Reissue.)  
 Mittasch, A. (See Bosch and Mittasch.)  
 Mittelstädt, O. A. F., Hohensathen-on-the-Oder, Germany. Tire-shield. No. 940,343; Nov. 16; Sp. p. 4212; Gaz. vol. 148; p. 710.  
 Mittendorf, W. R., assignor to Anderson Tool Company, Anderson, Ind. Computing-scale. No. 916,754; Mar. 30; Sp. p. 6260; Gaz. vol. 140; p. 1120.  
 Mittendorf, W. R., Dayton, Ohio, assignor to Anderson Tool Company, Anderson, Ind. Scale. No. 921,436; May 11; Sp. p. 2769; Gaz. vol. 142; p. 476.

*Alphabetical list of patentees—Continued.*

- Mittinger, G. E., Jr., New Castle, Pa. Coffee-percolator. No. 941,330; Nov. 23; Sp. p. 6348; Gaz. vol. 148; p. 1062.
- Mix, A. H., assignor to Porter Screen Manufacturing Company, Burlington, Vt. Window-screen. No. 911,318; Feb. 2; Sp. p. 586; Gaz. vol. 139; p. 100.
- Mix, A. H., assignor to Porter Screen Manufacturing Company, Burlington, Vt. Sash-holder. No. 911,515; Feb. 2; Sp. p. 933; Gaz. vol. 139; p. 163.
- Mix, A. H., Arlington, assignor to Porter Screen Manufacturing Company, Burlington, Vt. Frame for window and door screens. No. 930,078; Aug. 3; Sp. p. 956; Gaz. vol. 145; p. 158.
- Mix, E. W., Paris, France, assignor to General Electric Company. Brush-holder. No. 925,010; June 15; Sp. p. 4112; Gaz. vol. 143; p. 699.
- Mix, G. P. (See Jay, W. N., assignor.)
- Mizell, W. C., Knoxville, Tenn. Self-dumping grate. No. 937,685; Oct. 19; Sp. p. 4331; Gaz. vol. 147; p. 738.
- Mládek, J., Prague, Austria-Hungary. Electric signaling. No. 931,632; Aug. 17; Sp. p. 4199; Gaz. vol. 145; p. 720.
- Moak, W. V., Schenectady, N. Y., assignor to General Electric Company. Three-position signal. No. 919,450; Apr. 27; Sp. p. 5347; Gaz. vol. 141; p. 924.
- Moak, W. V., Schenectady, N. Y., assignor to General Electric Company. Signal mechanism. No. 925,123; June 15; Sp. p. 4325; Gaz. vol. 143; p. 737.
- Moan, A. J., et al. (See Larouette, H. P., assignor.)
- Moan, J. H. (See Bergren and Moan.)
- Moberg, O. W., Seattle, Wash. Butter-server. No. 927,158; July 6; Sp. p. 948; Gaz. vol. 144; p. 154.
- Möbus, H., Braunschweig, Germany. Grain and seed separator. No. 917,339; Apr. 6; Sp. p. 785; Gaz. vol. 141; p. 134.
- Moccetti, E. A., Paris, France. Girder. No. 910,837; Jan. 26; Sp. p. 4923; Gaz. vol. 138; p. 888.
- Mock, A. W. (See Koehenthal, Mock, and Jacobi.)
- Mock, C. H., assignor of one-half to B. McFarland, Pittsburg, Pa. Keg, barrel, and similar receptacle. No. 910,302; Jan. 19; Sp. p. 3823; Gaz. vol. 138; p. 688.
- Mock, J. C., et al. (See Everett, E. A., assignor.)
- Mock, J. C., Detroit, Mich., assignor to Union Switch and Signal Company, Swissvale, Pa. Automatic stop for railway safety appliances. No. 918,887; Apr. 20; Sp. p. 4019; Gaz. vol. 141; p. 705.
- Mock, J. M., and H. C. Prather, Jewett, Ill. Road-grader and ditching-machine. No. 926,503; June 29; Sp. p. 7100; Gaz. vol. 143; p. 1253.
- Mockbee, C. M., Cincinnati, Ohio. Clip. No. 923,558; June 1; Sp. p. 991; Gaz. vol. 143; p. 152.
- Mockridge, A. W., Jersey City, N. J. Gas-condenser. No. 934,617; Sept. 21; Sp. p. 3318; Gaz. vol. 146; p. 577.
- Mockridge, J. B., Newark, N. J., assignor of two-thirds to H. A. Verges, Milwaukee, Wis., and C. L. Duenkel, East Orange, N. J. Grain-car door. No. 910,010; Jan. 19; Sp. p. 3180; Gaz. vol. 138; p. 587.
- Mocomb, C. de, Paris, France. System for braking movable platforms. No. 934,085; Sept. 14; Sp. p. 2279; Gaz. vol. 146; p. 374.
- Model Incubator Company. (See Cyphers, C. A., assignor.)
- Modern Cap Manufacturing Company. (See Novoson, M. J., assignor.)
- Modern Gasoline Lighting Company et al. (See Zierlein, R. W., assignor.)
- Modern Machine Company et al. (See Pink, S. J., assignor.)
- Modern Silk Company. (See Seymour, F., assignor.)
- Modern Specialty Company. (See Hoya, F. A., assignor.)
- Modern Steel Structural Company. (See Israel, H. W., assignor.)
- Modern Tool Company. (See Payne, C. N., assignor.)
- Modlin, F. E., South Sioux City, Nebr., assignor of one-half to F. H. Durgin, Le Mars, Iowa. Automobile-tire. No. 912,399; Feb. 16; Sp. p. 2848; Gaz. vol. 139; p. 517.
- Modlin, T. B., and C. E. Flick, Hurdland, Mo. Lock. No. 917,340; Apr. 6; Sp. p. 786; Gaz. vol. 141; p. 134.
- Modlin, T. B., L. C. Schenimann, W. H. and A. Buhl, and H. Black, Hurdland, Mo. Mail-loader. No. 925,493; June 22; Sp. p. 5017; Gaz. vol. 143; p. 885.
- Moe, P. S., Creston, Wash. Portable hand-riveter. No. 918,351; Apr. 13; Sp. p. 2818; Gaz. vol. 141; p. 498.
- Moe, S. (See Walstead and Moe.)
- Moe, S., Chicago, Ill. Mangle. No. 909,312; Jan. 12; Sp. p. 1798; Gaz. vol. 138; p. 322.
- Moebis, G. A., Detroit, Mich. Cigar-shaping machine. No. 915,203; Mar. 16; Sp. p. 3222; Gaz. vol. 140; p. 562.
- Moehrlin, E. (See Zimmermann, W., assignor.)
- Moeke, G., Zeeland, Mich. Silo. No. 942,095; Dec. 7; Sp. p. 128; Gaz. vol. 149; p. 20.
- Moellenbrock, F. H., Dissen, Mo. Box-cover fastening. No. 942,336; Dec. 7; Sp. p. 652; Gaz. vol. 149; p. 104.
- Moeller, D. (See Moeller, L. and D.)
- Moeller, L. and D., Andrew, Iowa; said L. Moeller assignor to said D. Moeller. Lock-bolt. No. 939,921; Nov. 9; Sp. p. 3240; Gaz. vol. 148; p. 534.
- Moeller, S., Kings Creek, S. C. Potato-digger. No. 926,350; June 29; Sp. p. 6834; Gaz. vol. 143; p. 1203.
- Moeller, W. J., Hartwell, assignor to Philip Carey Manufacturing Company, Lockland, Ohio. Sectional asbestos covering. No. 940,265; Nov. 16; Sp. p. 4016; Gaz. vol. 148; p. 684.
- Moen, J. C., et al. (See Beaudin, E., assignor.)
- Moen, M. M., Calmar, Iowa. Adjustable door-frame. No. 924,176; June 8; Sp. p. 2361; Gaz. vol. 143; p. 386.
- Moertel, H., Chicago, Ill. Violin. No. 934,413; Sept. 14; Sp. p. 2907; Gaz. vol. 146; p. 486.
- Moerer, F., et al. (See Baum, J. B., assignor.)
- Moffat, W., Hamilton, Ontario, Canada. Mop-wringer. No. 909,442; Jan. 12; Sp. p. 2040; Gaz. vol. 138; p. 363.
- Moffat, W. A., assignor to Blake Wrench Manufacturing Company, Denver, Colo. Wrench. No. 917,098; Apr. 6; Sp. p. 277; Gaz. vol. 141; p. 50.
- Moffat, W. S., Pittsburg, Pa., assignor to C. W. Ellis, New York, N. Y. Curtain-pole fixture. No. 937,457; Oct. 19; Sp. p. 3901; Gaz. vol. 147; p. 663.
- Moffatt, A., assignor to Alba Manufacturing Company, Indianapolis, Ind. Producing pigments. No. 911,832; Feb. 9; Sp. p. 1581; Gaz. vol. 139; p. 294.
- Moffatt, A., assignor to Alba Manufacturing Company, Indianapolis, Ind. Producing composite pigments. No. 911,833; Feb. 9; Sp. p. 1582; Gaz. vol. 139; p. 294.
- Moffatt, J. R., assignor to Union Special Machine Company, Chicago, Ill. Sewing and gathering machine. No. 929,686; Aug. 3; Sp. p. 88; Gaz. vol. 145; p. 17.
- Moffatt, W. A., assignor to Improved Boiler Feed Company, Denver, Colo. Condenser. No. 923,684; June 1; Sp. p. 1257; Gaz. vol. 143; p. 195.
- Moffett, T. S., Almira, Wash. Wrench. No. 908,595; Jan. 5; Sp. p. 347; Gaz. vol. 138; p. 56.
- Moffett, T. S., Almira, Wash. Cleaning-knife. No. 912,146; Feb. 9; Sp. p. 2284; Gaz. vol. 139; p. 396.
- Moffett, T. S., Almira, Wash. Whiffletree. No. 937,317; Oct. 19; Sp. p. 3566; Gaz. vol. 147; p. 616.
- Moffitt, C. F., Koshkonong, Mo. Stock-marker. No. 917,961; Apr. 13; Sp. p. 2017; Gaz. vol. 141; p. 366.
- Moffitt, M. R., Peck, Kans. Corn-planter. No. 914,858; Mar. 9; Sp. p. 2530; Gaz. vol. 140; p. 423.
- Mogridge, W. J., Spokane, Wash. Telephone-receiver support. No. 943,033; Dec. 14; Sp. p. 2168; Gaz. vol. 149; p. 371.
- Mohan, J. B., assignor of one-half to C. F. Pfeffer, Effington, S. D. Manure-loader. No. 935,391; Sept. 28; Sp. p. 4859; Gaz. vol. 146; p. 859.
- Mohawk Brush Co. (See Levi, S., assignor.)
- Mohler, S., Cedar Rapids, Iowa. Corn-harvester. No. 914,494; Mar. 9; Sp. p. 1765; Gaz. vol. 140; p. 303.
- Mohr, C., Uetersen, Germany. Folding writing-desk. No. 928,614; July 20; Sp. p. 3982; Gaz. vol. 144; p. 695.
- Mohr, H., Sr., Red Bud, Ill. Float cut-off. No. 928,319; July 20; Sp. p. 3404; Gaz. vol. 144; p. 599.
- Mohr, H. H., Missoula, Mont. Sled-coupling. No. 934,618; Sept. 21; Sp. p. 3319; Gaz. vol. 146; p. 578.
- Mohr, J. A., Braddock, and F. H. N. Gervig, Wilksburg, Pa. Mold for casting-machines. No. 932,047; Aug. 24; Sp. p. 5166; Gaz. vol. 145; p. 681.
- Mohr, O. H., assignor to Fiege-Mohr Electric Appliance Company, San Francisco, Cal. Suction-cleaner. No. 913,966; Mar. 2; Sp. p. 651; Gaz. vol. 140; p. 102.
- Mohr, W. H., Reading, Pa. Tree-protector. No. 933,483; Sept. 7; Sp. p. 1076; Gaz. vol. 146; p. 155.
- Mohun, J. L., New York, N. Y. Automatic pipe-connector. No. 924,485; June 8; Sp. p. 2984; Gaz. vol. 143; p. 488.
- Mohun, J. L., New York, N. Y. Automatic pipe-connector. No. 924,486; June 8; Sp. p. 2989; Gaz. vol. 143; p. 489.
- Moineau, H. E., assignor to G. D. Barber, trustee, Worcester, Mass. Polishing-wheel. No. 924,565; June 8; Sp. p. 3152; Gaz. vol. 143; p. 515.
- Moir, E. W., London, England. Subaqueous tunnel. No. 938,265; Oct. 26; Sp. p. 5577; Gaz. vol. 147; p. 953.
- Moiser, F. M., Columbus, Ohio. Door-stop. No. 935,392; Sept. 28; Sp. p. 4860; Gaz. vol. 146; p. 860.
- Moltz, F. P. (See Foulkrod and Moltz.)
- Molden, G. H. (See Szymanski, W., assignor.)
- Moldenhauer, W. (See Dieffenbach and Moldenhauer.)
- Moldenke, R. (See Huber, R., assignor.)
- Moler, H. T., Pitcairn, Pa. Sanitary comb. No. 909,635; Jan. 12; Sp. p. 2426; Gaz. vol. 138; p. 430.
- Molestor, C., New York, N. Y. Attachment for washboilers. No. 928,062; July 13; Sp. p. 2825; Gaz. vol. 144; p. 481.



*Alphabetical list of patentees—Continued.*

- Molina, E., Lima, Peru. Apparatus for treating rubber. No. 914,156; Mar. 2; Sp. p. 1062; Gaz. vol. 140; p. 169.
- Molina, E. C., Arlington, Mass., assignor to American Telephone and Telegraph Company. Telephone-connecting apparatus. No. 926,994; July 6; Sp. p. 587; Gaz. vol. 144; p. 97.
- Moline, A. N., St. Joseph, Mo. Weed-puller and tree-trimmer. No. 913,225; Feb. 23; Sp. p. 4547; Gaz. vol. 139; p. 817.
- Moline Plow Company. (See Lindgren, A. C., assignor.)
- Moline Vacuum-Vapor Heating Company. (See Shurtleff, F., assignor.)
- Molitor, M., Calvary, Wis. Shoe-heel. No. 922,499; May 25; Sp. p. 4936; Gaz. vol. 142; p. 879.
- Molitor, M., Calvary, Wis. Harvester attachment. No. 937,085; Oct. 19; Sp. p. 3078; Gaz. vol. 147; p. 541.
- Molkenthin, J., Jr., Brooklyn, N. Y. Safety-razor. No. 933,571; Sept. 7; Sp. p. 1245; Gaz. vol. 146; p. 184.
- Moll, J., Augsburg, Germany. Feed mechanism for metal-working machines. No. 928,994; July 27; Sp. p. 4739; Gaz. vol. 144; p. 849.
- Moll, T. W., Cleveland, Ohio. Pipe-coupling. No. 924,262; June 8; Sp. p. 2558; Gaz. vol. 143; p. 416.
- Möller Gesellschaft mit beschränkter Haftung, K. & Th. (See Rahe, A., assignor.)
- Moller, W. (See Sheibley and Moller.)
- Molloy, J. F., West Haven, Conn. Cast-off. No. 908,480; Jan. 5; Sp. p. 96; Gaz. vol. 138; p. 18.
- Molnar, A. G., Cleveland, Ohio. Culinary tool. No. 932,631; Aug. 31; Sp. p. 6366; Gaz. vol. 145; p. 1099.
- Moloney, W. M., Toronto, Ontario, assignor to J. Playfair, Midland, Canada. Mail catching and delivering device for railways. No. 940,180; Nov. 16; Sp. p. 3842; Gaz. vol. 148; p. 652.
- Moltrup, J. T., et al. (See Watts, A., assignor.)
- Molz, C., Kaiserslautern, Germany. Truss. No. 925,645; June 22; Sp. p. 5345; Gaz. vol. 143; p. 936.
- Momberger & Co. (See Keitel, H., assignor.)
- Monachimoff, A., Oberhausen, Germany. Calculating-machine. No. 930,211; Aug. 3; Sp. p. 1213; Gaz. vol. 145; p. 199.
- Monaco, M., Stockton, Cal. Reflectograph. No. 924,089; June 8; Sp. p. 2135; Gaz. vol. 143; p. 356.
- Monaghan, A. L., Houston, Tex. Plug for repairing hose. No. 908,876; Jan. 5; Sp. p. 919; Gaz. vol. 138; p. 146.
- Monaghan, J. F., South Bend, Ind. Stamp-affixing machine. No. 942,454; Dec. 7; Sp. p. 884; Gaz. vol. 149; p. 144.
- Monahan, L. J., Oshkosh, Wis. Washbasin attachment. No. 915,057; Mar. 9; Sp. p. 2867; Gaz. vol. 140; p. 486.
- Monarch Engineering and Manufacturing Company. (See Alls, E., assignor.)
- Monarch Specialty Manufacturing Company. (See Lewis, L. C., assignor.)
- Monarch Telephone Manufacturing Company. (See Fricke, W. A., assignor.)
- Monarch Telephone Manufacturing Company. (See Yaxley, E. E., assignor.)
- Monarch Typewriter Company. (See Barney, E. E., assignor.)
- Monarch Typewriter Company. (See Coo, T. J., assignor.)
- Monarch Typewriter Company. (See Joselyn, H. N., assignor.)
- Monarch Typewriter Company. (See Merritt, H. W., assignor.)
- Monarch Typewriter Company. (See Mosher, C. P., assignor.)
- Monarch Typewriter Company. (See Pool, M. W., assignor.)
- Monarch Typewriter Company. (See Seib, G. A., assignor.)
- Monarch Typewriter Company. (See Steele, H. H., assignor.)
- Monarch Ventilator Company. (See Hubbard, M. G., assignor.)
- Monasch, B., Berlin, Germany, assignor to General Electric Company. Electric-arc lamp. No. 917,099; Apr. 6; Sp. p. 278; Gaz. vol. 141; p. 50.
- Monasch, B., Berlin, Germany, assignor to General Electric Company. Arc-lamp. No. 921,866; May 18; Sp. p. 3665; Gaz. vol. 142; p. 646.
- Monasch, B., Berlin, Germany, assignor to General Electric Company. Arc-lamp. No. 924,916; June 15; Sp. p. 3910; Gaz. vol. 143; p. 667.
- Monash-Younger Company. (See Leuthesser, F. W., assignor.)
- Monday, A. M., Knoxville, Tenn. Mixer. No. 914,495; Mar. 9; Sp. p. 1766; Gaz. vol. 140; p. 303.
- Monouse, A. F., New Rochelle, N. Y. Knife-sharpening tool. No. 917,272; Apr. 6; Sp. p. 1015; Gaz. vol. 141; p. 177.
- Monouse, A. F., New Rochelle, N. Y. Water-heater. No. 928,063; July 13; Sp. p. 2826; Gaz. vol. 144; p. 481.
- Mongelli, S. (See Phillips, Di pierno, and Mongelli.)
- Mongelli, G. A., Philadelphia, Pa. Rule. No. 941,936; Nov. 30; Sp. p. 7660; Gaz. vol. 148; p. 1290.
- Mongue, G., Deville, Rouen, France. Apparatus applicable to ring spinning and doubling frames or the like. No. 910,838; Jan. 26; Sp. p. 4925; Gaz. vol. 138; p. 889.
- Monier, F. C., assignor to North and Judd Manufacturing Company, New Britain, Conn. Spur. No. 934,559; Sept. 21; Sp. p. 3189; Gaz. vol. 146; p. 556.
- Monitor Drill Co. (See Davis and Bozard, assignors.)
- Monitor Manufacturing Company of Baltimore City. (See O'Brien, W. C., assignor.) (Reissue.)
- Monitor Shipping Corporation Company, Limited. (See Petersen, W., assignor.)
- Monk, W. G., Syracuse, N. Y. Match-safe. No. 940,344; Nov. 16; Sp. p. 4214; Gaz. vol. 148; p. 710.
- Monnot, J. F., assignor to Duplex Metals Company, New York, N. Y. Compound metal body and producing same. No. 909,924; Jan. 19; Sp. p. 5015; Gaz. vol. 138; p. 559.
- Monnot, J. F., assignor to Duplex Metals Company, New York, N. Y. Process and apparatus for producing compound metal objects. No. 910,405; Jan. 19; Sp. p. 4031; Gaz. vol. 138; p. 724.
- Monnot, J. F., assignor to Duplex Metals Company, New York, N. Y. Producing compound metal bodies. No. 910,564; Jan. 26; Sp. p. 4377; Gaz. vol. 138; p. 802.
- Monnot, J. F., assignor to Duplex Metals Company, New York, N. Y. Making compound metal bodies. No. 916,471; Mar. 30; Sp. p. 5720; Gaz. vol. 140; p. 1032.
- Monnot, J. F., assignor to Duplex Metals Company, New York, N. Y. Making compound metal objects. No. 927,062; July 6; Sp. p. 766; Gaz. vol. 144; p. 121.
- Monnot, J. F., assignor to Duplex Metals Company, New York, N. Y. Making clad-metal articles. No. 927,371; July 6; Sp. p. 1331; Gaz. vol. 144; p. 222.
- Monnot, J. F., assignor to Duplex Metals Company, New York, N. Y. Clad metal. No. 927,372; July 6; Sp. p. 1337; Gaz. vol. 144; p. 222.
- Monnot, J. F., assignor to Duplex Metals Company, New York, N. Y. Mold. No. 928,470; July 20; Sp. p. 3686; Gaz. vol. 144; p. 648.
- Monnot, J. F., assignor to Duplex Metals Company, New York, N. Y. Clad metal and producing the same. No. 929,687; Aug. 3; Sp. p. 90; Gaz. vol. 145; p. 18.
- Monnot, J. F., assignor to Duplex Metals Company, New York, N. Y. Producing coated metal objects. No. 929,777; Aug. 3; Sp. p. 307; Gaz. vol. 145; p. 52.
- Monnot, J. F., assignor to Duplex Metals Company, New York, N. Y. Compound metal body and producing same. No. 929,778; Aug. 3; Sp. p. 312; Gaz. vol. 145; p. 53.
- Monnot, J. F., assignor to Monnot Metallurgical Company, New York, N. Y. Casting metal ingots. No. 929,688; Aug. 3; Sp. p. 96; Gaz. vol. 145; p. 18.
- Monnot, J. F., assignor to Monnot Metallurgical Company, New York, N. Y. Process and apparatus for making metal ingots. No. 944,370; Dec. 28; Sp. p. 5009; Gaz. vol. 149; p. 882.
- Monnot, J. F., assignor to Monnot Metallurgical Company, New York, N. Y. Making and casting alloys. No. 944,371; Dec. 28; Sp. p. 5014; Gaz. vol. 149; p. 882.
- Monnot Metallurgical Company. (See Monnot, J. F., assignor.)
- Monnoyer & Fils, L. (See Dumas, M., assignor.)
- Mono Service Vessels. (See Taylor, E. Z., assignor.)
- Monongah Glass Company. (See Knight, A. B., assignor.)
- Monrath, G., and A. J. Mottlau, New York, N. Y. Chain conduit. No. 929,968; Aug. 3; Sp. p. 729; Gaz. vol. 145; p. 117.
- Monroe, C., Boston, Mass. Target-practice aiming-machine. No. 938,327; Oct. 26; Sp. p. 5720; Gaz. vol. 147; p. 974.
- Monroe, F. A., Bemus Point, N. Y. Device for cleaning wells. No. 943,885; Dec. 21; Sp. p. 3977; Gaz. vol. 149; p. 690.
- Monroe, W. K. (See Wright and Monroe.)
- Monson, P., Yuma, Ariz. Ter. Tie-rod connection. No. 914,496; Mar. 9; Sp. p. 1768; Gaz. vol. 140; p. 303.
- Monta, D. E., Genesee Depot, Wis. Silo. No. 935,269; Sept. 28; Sp. p. 4615; Gaz. vol. 146; p. 820.
- Montag, G., assignor to Gesellschaft für Tabakveredelung m. b. H., Mannheim, Germany. Treating tobacco, &c. No. 940,181; Nov. 16; Sp. p. 3844; Gaz. vol. 148; p. 653.
- Montague, E. L., and E. A. Stewart, assignors to said E. L. Montague, S. F. Montague, S. M. Stuart, and G. S. Northrop, Baldwinsville, N. Y. Oar-lock. No. 943,695; Dec. 21; Sp. p. 3594; Gaz. vol. 149; p. 625.
- Montague, F. J. (See Bowman, M., assignor.)
- Montague Mailing Machinery Co. (See Owens, C., assignor.)
- Montague, R. L., et al. (See Gourdin, J. K., assignor.)
- Montague, S. F., et al. (See Montague and Stewart, assignors.)
- Montague, T. D., Picture Rocks, Pa. Combined bench and chair. No. 911,319; Feb. 2; Sp. p. 587; Gaz. vol. 139; p. 100.
- Montague, T. D., Picture Rocks, Pa. Swing. No. 911,426; Feb. 2; Sp. p. 780; Gaz. vol. 139; p. 135.

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- Montan, A., Newark, N. J. Test-indicator. No. 910,706; Jan. 26; Sp. p. 4659; Gaz. vol. 138; p. 847.
- Montauk Engineering Company. (See Anderson, J., assignor.)
- Monteagle, R. C., Winchester, Mass. Feed-water filter. No. 930,401; Aug. 10; Sp. p. 1570; Gaz. vol. 145; p. 284.
- Monteith, A., and C. W. Sheldon, Laporte, Ind., and C. W. Smith, Paulding, Ohio. Mail-pouch-exchanging apparatus. No. 911,057; Feb. 2; Sp. p. 66; Gaz. vol. 139; p. 13.
- Montgomery, A. W., New York, N. Y. Machine for cleaning fibers. No. 910,406; Jan. 19; Sp. p. 4039; Gaz. vol. 138; p. 724.
- Montgomery, C. W., Richmond, Va. Cutter-guiding templet for routing-machines. No. 909,636; Jan. 12; Sp. p. 2426; Gaz. vol. 138 p. 430.
- Montgomery, E. H., Duluth, Minn. Boiler-furnace. No. 936,651; Oct. 12; Sp. p. 2223; Gaz. vol. 147; p. 368.
- Montgomery, H. J., Silver Creek, N. Y. Furniture. No. 919,201; Apr. 20; Sp. p. 4618; Gaz. vol. 141; p. 806.
- Montgomery, J., Chicago, Ill. Caster. No. 930,402; Aug. 10; Sp. p. 1572; Gaz. vol. 145; p. 285.
- Montgomery, J., Toronto, Ontario, Canada. Water-elevator. No. 938,266; Oct. 26; Sp. p. 5579; Gaz. vol. 147; p. 954.
- Montgomery, J. H., Denver, Colo. Traction-rope-gripping device for aerial wire-rope tramway buckets. No. 915,104; Mar. 16; Sp. p. 3001; Gaz. vol. 140; p. 529.
- Montgomery, J. H., Denver, Colo. Coin-controlled advertising device. No. 937,318; Oct. 19; Sp. p. 3567; Gaz. vol. 147; p. 617.
- Montgomery, J. H., Denver, Colo. Rope-grip for aerial wire-rope tramways. No. 937,319; Oct. 19; Sp. p. 3570; Gaz. vol. 147; p. 617.
- Montgomery, J. H., South Omaha, assignor of three-eighths to A. Kundert, Omaha, and five-sixteenths to M. Montgomery, South Omaha, Nebr. Gold-concentrating apparatus. No. 913,905; Mar. 2; Sp. p. 505; Gaz. vol. 140; p. 82.
- Montgomery, M., *et al.* (See Montgomery, J. H., assignor.)
- Montgomery, T., Sarnia, Ontario, Canada. Pressure-regulator. No. 915,204; Mar. 16; Sp. p. 3224; Gaz. vol. 140; p. 563.
- Montgomery, W. J. (See Weber and Montgomery.)
- Montgomery, W. R., Shreveport, La. Hat-ventilator. No. 911,740; Feb. 9; Sp. p. 1420; Gaz. vol. 139; p. 264.
- Monti, E., Turin, Italy. Concentrating solutions. No. 919,616; Apr. 27; Sp. p. 5709; Gaz. vol. 141; p. 982.
- Monti, E., Turin, Italy. Apparatus for concentrating solutions by freezing. No. 925,820; June 22; Sp. p. 5734; Gaz. vol. 143; p. 993.
- Monti, E., Turin, Italy. Apparatus for concentrating solutions. No. 940,644; Nov. 16; Sp. p. 4868; Gaz. vol. 148; p. 810.
- Montin, A. F., Elizabethport, N. J. Harness-saddle device. No. 912,148; Feb. 9; Sp. p. 2286; Gaz. vol. 139; p. 396.
- Montjustin, R. D., Kiel, Germany. Steam-generator for submarine boats. No. 943,153; Dec. 14; Sp. p. 2427; Gaz. vol. 149; p. 412.
- Montross, L. H., Camden, N. J. Casket-carrier. No. 937,086; Oct. 19; Sp. p. 3079; Gaz. vol. 147; p. 541.
- Montupet, P., Paris, assignor to Societe Montupet & Co., Nogent les Vierges, Oise, France. Wheel, pulley, and the like. No. 942,400; Dec. 7; Sp. p. 772; Gaz. vol. 149; p. 124.
- Monument Pottery Company. (See Clifford and Weelans, assignors.)
- Moodie, P., Malden, Mass. Lock-nut. No. 926,504; June 29; Sp. p. 7103; Gaz. vol. 143; p. 1254.
- Moodie, R., Goodmayes, England. Apparatus for grading granular substances. No. 919,291; Apr. 20; Sp. p. 4991; Gaz. vol. 141; p. 836.
- Moody, C. E., assignor of one-fourth to G. F. Brenner, Zanesville, Ohio. Automatic switch-thrower. No. 921,555; May 11; Sp. p. 2993; Gaz. vol. 142; p. 514.
- Moody, F. M., Whitman, assignor of one-half to C. S. Gooding, Brookline, Mass. Machine for removing shoes from lasts. No. 932,632; Aug. 31; Sp. p. 6367; Gaz. vol. 145; p. 1099.
- Moody, H. L. (See Hegarty and Moody.)
- Moody, J. E., Essex, Ill. Centering-mold. No. 930,308; Aug. 3; Sp. p. 1383; Gaz. vol. 145; p. 229.
- Moody, J. N., South Boston, Va. Canopy for beds. No. 915,785; Mar. 23; Sp. p. 4408; Gaz. vol. 140; p. 782.
- Moody, J. N., South Boston, Va. Attachment for beds. No. 930,554; Aug. 10; Sp. p. 1916; Gaz. vol. 145; p. 338.
- Moody, J. N., South Boston, Va. Ventilating-canopy. No. 941,685; Nov. 30; Sp. p. 7112; Gaz. vol. 148; p. 1202.
- Moody, J. W., assignor to Chicago Vacuum Jar Co., Chicago, Ill. Jar closure or cover and the like. No. 943,951; Dec. 21; Sp. p. 4123; Gaz. vol. 149; p. 715.
- Moody, L. J., Ridgway, Colo. Combined mop head and wringer. No. 938,685; Nov. 2; Sp. p. 532; Gaz. vol. 148; p. 82.
- Moody, M. A., Chicago, Ill. Refrigerator. No. 917,638; Apr. 6; Sp. p. 1314; Gaz. vol. 141; p. 231.
- Moody, R., Guntersville, Ala. Churn. No. 908,796; Jan. 5; Sp. p. 759; Gaz. vol. 138; p. 120.
- Moody, T. J., assignor of one-half to J. D. Havens, Petersburg, Ill. Apparatus for receiving and delivering mail. No. 927,268; July 6; Sp. p. 1166; Gaz. vol. 144; p. 191.
- Moody, V. D., *et al.* (See Quick, H. P., assignor.)
- Moers, L. P., Geneva, assignor to Peerless Motor Car Company, Cleveland, Ohio. Power-transmitting mechanism for automobiles. (Re-issue.) No. 12,966; June 1; Sp. p. 1587; Gaz. vol. 143; p. 236.
- Moon, A. B., Grove City, Pa. Washing device. No. 913,533; Feb. 23; Sp. p. 5167; Gaz. vol. 139; p. 921.
- Moon Brothers Carriage Company. (See Moon, J. C., assignor.)
- Moon Brothers Carriage Company. (See Moore, S. A., assignor.)
- Moon Brothers Carriage Company. (See Zingsheim, F. W., assignor.)
- Moon, C. S., Topeka, Kans. Cut-out suspension-pulley. No. 911,252; Feb. 2; Sp. p. 460; Gaz. vol. 139; p. 79.
- Moon, J. C., assignor to Moon Brothers Carriage Company, St. Louis, Mo. Carriage-body. No. 913,534; Feb. 23; Sp. p. 5168; Gaz. vol. 139; p. 921.
- Moon, J. W., Hiram, Ga. Display-rack. No. 925,011; June 15; Sp. p. 4114; Gaz. vol. 143; p. 700.
- Moon, O. P., Cleveland, Ohio. Oven-door holder or catch. No. 925,936; June 22; Sp. p. 5971; Gaz. vol. 143; p. 1031.
- Moon, R. D., San Angelo, Tex. Ice-cream freezer. No. 924,917; June 15; Sp. p. 3911; Gaz. vol. 143; p. 667.
- Mooney, C. S., assignor to Northwestern Expanded Metal Company, Chicago, Ill. Basket. No. 938,497; Nov. 2; Sp. p. 109; Gaz. vol. 148; p. 17.
- Mooney, C. S., and J. Jantusek, Chicago, Ill., assignors to Northwestern Expanded Metal Company. Metallic studding. No. 943,696; Dec. 21; Sp. p. 3595; Gaz. vol. 149; p. 625.
- Mooney, J. W., Lawton, Okla. Rotary motor. No. 930,403; Aug. 10; Sp. p. 1573; Gaz. vol. 145; p. 285.
- Mooney, T., Boston, Mass. Base-ball puzzle. No. 939,612; Nov. 9; Sp. p. 2584; Gaz. vol. 148; p. 424.
- Mooney, W. L., Weston, W. Va. Pressing glass tiles. No. 916,574; Mar. 30; Sp. p. 5942; Gaz. vol. 140; p. 1066.
- Mooney, W. T., Parsons, assignor of one-half to A. R. Crawford, Davis, W. Va. Glass-fastener. No. 944,892; Dec. 28; Sp. p. 6166; Gaz. vol. 149; p. 1061.
- Moore, A. (See Moore, W. H., A. P., and A.)
- Moore, A., Helena, Okla. Watering-trough. No. 910,565; Jan. 26; Sp. p. 4380; Gaz. vol. 138; p. 803.
- Moore, A., Detroit, Mich. Spring-wheel. No. 942,276; Dec. 7; Sp. p. 530; Gaz. vol. 149; p. 83.
- Moore, A. C. (See Baker and Moore.)
- Moore, A. L., Springfield, Mass. Machine for cutting threads on shanks of wrench-jaws. No. 920,606; May 4; Sp. p. 1032; Gaz. vol. 142; p. 168.
- Moore, A. L., Moline, Ill. Roller-bearing. No. 944,684; Dec. 28; Sp. p. 5707; Gaz. vol. 149; p. 990.
- Moore, A. P. (See Moore, W. H., A. P., and A.)
- Moore, A. T., New Orleans, La. Window-screen. No. 911,741; Feb. 9; Sp. p. 1422; Gaz. vol. 139; p. 264.
- Moore, B., Cherryvale, Kans. Liquid-fuel burner. No. 939,613; Nov. 9; Sp. p. 2585; Gaz. vol. 148; p. 425.
- Moore Brothers Company. (See Moore, L., assignor.)
- Moore, C. F., Gillett, Pa. Weed-folder. No. 921,266; May 11; Sp. p. 2390; Gaz. vol. 142; p. 419.
- Moore, C. F., Gillett, Pa. Invalid lifter, swing, and wheel-chair combined. No. 924,177; June 8; Sp. p. 2363; Gaz. vol. 143; p. 387.
- Moore, C. H., New York, N. Y. Water-closet cistern. No. 920,365; May 4; Sp. p. 558; Gaz. vol. 142; p. 89.
- Moore, C. H., New York, N. Y. Water-closet outlet connection. No. 938,777; Nov. 2; Sp. p. 698; Gaz. vol. 148; p. 112.
- Moore, C. H., New York, N. Y. Water-closet outlet connection. No. 944,627; Dec. 28; Sp. p. 5602; Gaz. vol. 149; p. 972.
- Moore, C. L., Brooklyn, N. Y. Snow-melter. No. 942,337; Dec. 7; Sp. p. 654; Gaz. vol. 149; p. 104.
- Moore, C. M., Mittineague, assignor to Independent Whip Company, Westfield, Mass. Ratan-straightening machine. No. 919,202; Apr. 20; Sp. p. 4619; Gaz. vol. 141; p. 807.
- Moore, C. R. (See Harris, J., assignor.)
- Moore, C. S., assignor of one-half to N. B. Moore, Grand Rapids, Mich. Window-frame. No. 911,742; Feb. 9; Sp. p. 1423; Gaz. vol. 139; p. 265.
- Moore, C. T., Allentown, Pa. Corner-protector. No. 919,057; Apr. 20; Sp. p. 4355; Gaz. vol. 141; p. 760.
- Moore, C. W., *et al.* (See Clow, W. C., assignor.)
- Moore, C. W., New Orleans, La. Bilge-drainer. No. 931,633; Aug. 17; Sp. p. 4200; Gaz. vol. 145; p. 721.
- Moore, D. H., Bakersfield, Cal. Egg-cooker. No. 941,265; Nov. 23; Sp. p. 6223; Gaz. vol. 148; p. 1043.
- Moore, D. M., Newark, N. J., assignor to Moore Electrical Co., New York, N. Y. Automatic gas-feed for vacuum-tubes. No. 930,404; Aug. 10; Sp. p. 1576; Gaz. vol. 145; p. 285.
- Moore, D. P. (See Beale and Moore.)
- Moore, D. P., Washington, D. C., assignor to H. Kohstamm and Company, Chicago, Ill. Reversible-cover-fastening device for baskets. No. 917,473; Apr. 6; Sp. p. 1016; Gaz. vol. 141; p. 177.



*Alphabetical list of patentees—Continued.*

- Moore, D. P., assignor to himself, C. Beale, Washington, D. C., and E. A. Lerch, Baltimore, Md. Hydraulic operator for gate-valves. No. 927,422; July 6; Sp. p. 1444; Gaz. vol. 144; p. 240.
- Moore, E. C., Philadelphia, Pa. Go-cart. No. 938,498; Nov. 2; Sp. p. 111; Gaz. vol. 148; p. 18.
- Moore, E. C., Philadelphia, Pa., assignor to Merritt & Company. Apparatus for controlling the admission and relief of pressure to tanks and other appliances. No. 914,497; Mar. 9; Sp. p. 1769; Gaz. vol. 140; p. 304.
- Moore, E. E., McLuney, Ohio. Billiard-cue. No. 935,218; Sept. 28; Sp. p. 4512; Gaz. vol. 146; p. 803.
- Moore, E. J., Yonkers, N. Y. Reinforced concrete construction. No. 924,090; June 8; Sp. p. 2136; Gaz. vol. 143; p. 356.
- Moore, E. K., assignor to Crown Cork Company, Limited, Finsbury, London, England. Machine for capping or closing charged bottles or other receptacles. No. 928,781; July 20; Sp. p. 4302; Gaz. vol. 144; p. 750.
- Moore, E. Y., Cleveland, Ohio. Trolley. No. 927,994; July 13; Sp. p. 2682; Gaz. vol. 144; p. 457.
- Moore Electrical Co. (See Moore, D. M., assignor.)
- Moore, F. H., assignor of one-half to W. R. Livingston, Lansdowne, Pa. Adjustable flower-stand. No. 911,149; Feb. 2; Sp. p. 254; Gaz. vol. 139; p. 44.
- Moore, F. T., Geyserville, Cal. Bridle-blind. No. 923,289; June 1; Sp. p. 411; Gaz. vol. 143; p. 58.
- Moore, F. W., Millbury, assignor to Draper Company, Hopedale, Mass. Yarn-stripper for well-replenishing looms. No. 937,838; Oct. 26; Sp. p. 4665; Gaz. vol. 147; p. 808.
- Moore, F. W., Brooklyn, assignor of one-half to J. W. Thompson, Beardstown, Ill. Resizer. No. 942,921; Dec. 14; Sp. p. 1902; Gaz. vol. 149; p. 332.
- Moore, G., New York, N. Y. Metallurgical process. No. 913,535; Feb. 23; Sp. p. 5169; Gaz. vol. 139; p. 922.
- Moore, G. A., Marengo, Ill. Thermostat. No. 914,859; Mar. 9; Sp. p. 2535; Gaz. vol. 140; p. 423.
- Moore, G. C., Ellsworth, Ind. Bake-oven lamp. No. 926,995; July 6; Sp. p. 592; Gaz. vol. 144; p. 97.
- Moore, G. C., assignor to John C. Moore Corporation, Rochester, N. Y. Loose-leaf binder. No. 944,893; Dec. 28; Sp. p. 6167; Gaz. vol. 149; p. 1061.
- Moore, G. C., assignor to John C. Moore Corporation, Rochester, N. Y. Loose-leaf binder. No. 944,894; Dec. 28; Sp. p. 6169; Gaz. vol. 149; p. 1062.
- Moore, G. C., assignor to John C. Moore Corporation, Rochester, N. Y. Loose-leaf binder. No. 944,895; Dec. 28; Sp. p. 6171; Gaz. vol. 149; p. 1062.
- Moore, G. H., Boston, Mass. Temporary binder. No. 940,345; Nov. 16; Sp. p. 4215; Gaz. vol. 148; p. 711.
- Moore, G. J. (See Moore, W. F. and G. J.)
- Moore, G. R., Chicago, Ill. Shaft. No. 941,087; Nov. 23; Sp. p. 5828; Gaz. vol. 148; p. 984.
- Moore, G. W., Parsons, Kans. Oil-burner. No. 938,428; Oct. 26; Sp. p. 5950; Gaz. vol. 147; p. 1009.
- Moore, H., Indianapolis, Ind. Plow. No. 943,092; Dec. 14; Sp. p. 2305; Gaz. vol. 149; p. 391.
- Moore, H. C., Somerville, Mass. Tile. No. 928,320; July 20; Sp. p. 3405; Gaz. vol. 144; p. 599.
- Moore, H. C., Somerville, Mass. Tile. No. 928,321; July 20; Sp. p. 3407; Gaz. vol. 144; p. 599.
- Moore, H. C., Philadelphia, Pa. Combined door closer and stop. No. 942,656; Dec. 7; Sp. p. 1300; Gaz. vol. 149; p. 213.
- Moore, I., *et al.* (See Thompson, J. V., assignor.)
- Moore, J., Myrtle Point, Oreg. Gate-latch. No. 944,896; Dec. 28; Sp. p. 6172; Gaz. vol. 149; p. 1062.
- Moore, J., assignor to J. Lally, J. Nolan, J. M. Coughlin, W. C. Coughlin, and M. B. Foley, Milford, Mass. Machine for comminuting bone and vegetable matter. No. 915,460; Mar. 16; Sp. p. 3718; Gaz. vol. 140; p. 645.
- Moore, J. A., Idabel, Okla. Automatic frogless railway-switch. No. 934,086; Sept. 14; Sp. p. 2282; Gaz. vol. 146; p. 374.
- Moore, J. C., Philadelphia, Pa. Parcel, cash, and wind protecting attachment for booths or the like. No. 936,551; Oct. 12; Sp. p. 2013; Gaz. vol. 147; p. 332.
- Moore, J. C., assignor to Columbia School Supply Company, Indianapolis, Ind. Astronomical apparatus. No. 938,162; Oct. 26; Sp. p. 5372; Gaz. vol. 147; p. 917.
- Moore, J. E., and G. F. Simmons, Walthill, Nebr. assignors of three-fifths to W. E. Whitcomb, Winnebago, Nebr. Cement-block machine. No. 937,627; Oct. 19; Sp. p. 4230; Gaz. vol. 147; p. 721.
- Moore, J. H., Lambertville, N. J. Hose-coupling. No. 917,474; Apr. 6; Sp. p. 1018; Gaz. vol. 141; p. 177.
- Moore, J. H., Mound Valley, Kans. Gas-burner. No. 921,139; May 11; Sp. p. 2130; Gaz. vol. 142; p. 375.
- Moore, J. L., Brooklyn, N. Y. Turbine. No. 917,341; Apr. 6; Sp. p. 738; Gaz. vol. 141; p. 134.
- Moore, J. L., Bellevue, Ohio. Spring bed-bottom. No. 944,569; Dec. 28; Sp. p. 5483; Gaz. vol. 149; p. 951.
- Moore, J. L., Edgewood Park, Pa., assignor to Westinghouse Machine Company. Cut-off valve. No. 940,815; Nov. 23; Sp. p. 5264; Gaz. vol. 148; p. 893.
- Moore, J. M., Bridgeville, and F. F. Kamp, Jr., Lawrence, Pa. Safety-stop-signal attachment for railway-signals. No. 913,536; Feb. 23; Sp. p. 5172; Gaz. vol. 139; p. 922.
- Moore, J. N., Washington, D. C. Grinding-wheel attachment for sewing-machines. No. 933,382; Sept. 7; Sp. p. 799; Gaz. vol. 146; p. 123.
- Moore, J. W. (See Luttrell, J. D., assignor.)
- Moore, J. W., Des Moines, Iowa. Block wall-paper trimmer. No. 920,980; May 11; Sp. p. 1805; Gaz. vol. 142; p. 320.
- Moore, L., assignor to Moore Brothers Company, Joliet, Ill. Stove. No. 939,529; Nov. 9; Sp. p. 2391; Gaz. vol. 148; p. 396.
- Moore, L. F., *et al.* (See Hanserd, J. G., assignor.)
- Moore, L. M. (See Tudor, J. H., assignor.)
- Moore, M. (See Heskett and Moore.)
- Moore, M. E., *et al.* (See Hanserd, J. G., assignor.)
- Moore, M. G., and R. C. Glazier, Johnston, Pa. Gas-main construction. No. 912,147; Feb. 9; Sp. p. 2284; Gaz. vol. 139; p. 396.
- Moore, M. G., and R. C. Glazier, Johnston, Pa. Gas-main. No. 936,013; Oct. 5; Sp. p. 874; Gaz. vol. 147; p. 132.
- Moore, M. M. (See Moore, O. N., assignor.)
- Moore, M. W., Everett, assignor to Samuel Ward Company, Boston, Mass. Fountain-pen. No. 939,057; Nov. 2; Sp. p. 1298; Gaz. vol. 148; p. 210.
- Moore, N. B. (See Moore, C. S., assignor.)
- Moore, N. R., *et al.* (See Hansen, H. K., assignor.)
- Moore, O. N., Indianapolis, Ind., assignor of one-half to M. M. Moore, Alameda county, Cal. Daylight holding-envelop for photographic plates. No. 915,988; Mar. 23; Sp. p. 4790; Gaz. vol. 140; p. 847.
- Moore, R. A., Berlin, assignor to Waterbury Buckle Company, Waterbury, Conn. Garment-supporter clasp. No. 922,799; May 5; Sp. p. 5561; Gaz. vol. 142; p. 977.
- Moore, S. A., assignor to Moon Brothers Carriage Company, St. Louis, Mo. Carriage-body. No. 913,537; Feb. 23; Sp. p. 5173; Gaz. vol. 139; p. 922.
- Moore, S. E., Bradford, Pa. Skirt and shirt-waist pin. No. 930,604; Aug. 10; Sp. p. 2021; Gaz. vol. 145; p. 354.
- Moore, T. R. (See Evens, C. S., assignor.)
- Moore, T. R., Walden, N. Y. Transmission-dynamometer. No. 930,605; Aug. 10; Sp. p. 2022; Gaz. vol. 145; p. 354.
- Moore, V. V., Baraboo, Wis. Friction-buffer and head-block for railway-cars. No. 930,779; Aug. 10; Sp. p. 2373; Gaz. vol. 145; p. 411.
- Moore, W. B., Seattle, Wash. Magnetic separation. No. 922,800; May 25; Sp. p. 5562; Gaz. vol. 142; p. 977.
- Moore, W. B., Walla Walla, Wash. Liquid-impelling apparatus. No. 925,012; June 15; Sp. p. 4116; Gaz. vol. 143; p. 700.
- Moore, W. B., Walla Walla, Wash. Magnetic separator. No. 940,266; Nov. 16; Sp. p. 4017; Gaz. vol. 148; p. 684.
- Moore, W. F. and G. J., Toronto, Ontario, Canada. Grain-grinding machine. No. 932,882; Aug. 31; Sp. p. 6873; Gaz. vol. 145; p. 1180.
- Moore, W. G., assignor of one-half to G. W. Gadbury, Los Angeles, Cal. Oven-door for stoves, ranges, and the like. No. 910,142; Jan. 19; Sp. p. 3440; Gaz. vol. 138; p. 630.
- Moore, W. H., Springfield, Ohio. Dump-wagon. No. 914,157; Mar. 2; Sp. p. 1064; Gaz. vol. 140; p. 169.
- Moore, W. H., A. P., and A., Toledo, Ohio. Mail-bag catcher and deliverer. No. 940,887; Nov. 23; Sp. p. 5406; Gaz. vol. 148; p. 916.
- Moore, W. J. (See Marr, R. A., assignor.)
- Moore, W. J., Washington, D. C. Safety-razor. No. 915,989; Mar. 23; Sp. p. 4792; Gaz. vol. 140; p. 847.
- Moore, W. J., Washington, D. C. Hair-dressing appliance. No. 930,678; Aug. 10; Sp. p. 2162; Gaz. vol. 145; p. 378.
- Moore, W. J., East Pittsburg, Pa. Corn-sheller. No. 941,798; Nov. 30; Sp. p. 7363; Gaz. vol. 148; p. 1241.
- Moore, W. N., Redlands, Cal. Apparatus for applying adhesives. No. 911,253; Feb. 2; Sp. p. 463; Gaz. vol. 139; p. 79.
- Moore, W. P., *et al.* (See Stewart, R. W. J., assignor.)
- Moore, W. R., East Orange, N. J. Gun-cleaner. No. 940,985; Nov. 23; Sp. p. 5602; Gaz. vol. 148; p. 949.
- Moore and White Company. (See White, J. A., assignor.)
- Moore, G. W., New Orleans, La. Adjustable iron back-band and hook. No. 937,257; Oct. 19; Sp. p. 3464; Gaz. vol. 147; p. 598.
- Moorhead, A. E., Oakland, Cal. Pneumatic device for collecting and removing dust. No. 925,646; June 22; Sp. p. 5346; Gaz. vol. 143; p. 936.
- Moorhead, A. E., San Francisco, Cal. Pneumatic sweeper. No. 927,668; July 13; Sp. p. 2018; Gaz. vol. 144; p. 351.
- Moorhead, A. E., San Francisco, Cal. Cap-valve. No. 927,808; July 13; Sp. p. 2295; Gaz. vol. 144; p. 397.
- Moorman, A. M., Lynchburg, Va. Skirt-supporting attachment for wardrobe-trunks. No. 943,154; Dec. 14; Sp. p. 2429; Gaz. vol. 149; p. 413.
- Moorees, H. P., Weehawken, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 912,316; Feb. 16; Sp. p. 2661; Gaz. vol. 139; p. 488.

*Alphabetical list of patentees—Continued.*

- Moors, W. C., Owensboro, Ky. Wagon-brake. No. 931,786; Aug. 24; Sp. p. 4587; Gaz. vol. 145; p. 795.
- Mooser, A. H. (See Root and Mooser.)
- Moran, D. E., Mendham, N. J. Sinking shafts and the like. No. 923,984; June 8; Sp. p. 1953; Gaz. vol. 143; p. 324.
- Moran, D. E., Mendham, N. J., J. W. Doty and E. S. Jarrett, New York, N. Y. Dam and building the same. No. 923,985; June 8; Sp. p. 1958; Gaz. vol. 143; p. 325.
- Moran, D. E., Mendham, N. J., J. W. Doty and E. S. Jarrett, New York, N. Y. Sinking shafts and the like. No. 933,776; Sept. 14; Sp. p. 1660; Gaz. vol. 146; p. 275.
- Moran, F. J., Birkenhead, England. Protective cover or armor for pneumatic tires. No. 913,752; Mar. 2; Sp. p. 162; Gaz. vol. 140; p. 27.
- Moran, F. J., New Britain, Conn. Bracket. No. 934,414; Sept. 14; Sp. p. 2908; Gaz. vol. 146; p. 486.
- Moran, F. P., Cincinnati, Ohio. Device for utilizing the heat of gases discharged from compressors. No. 929,460; July 27; Sp. p. 5715; Gaz. vol. 144; p. 1002.
- Moran, J. F. (See Fisher, W. R., assignor.)
- Moran, J. F. (See Mahan and Moran.)
- Moran, J. W., McKees Rocks, Pa. Nut-lock. No. 909,637; Jan. 12; Sp. p. 2429; Gaz. vol. 138; p. 430.
- Moran, J. W., Adams, Mass. Door-stop. No. 921,556; May 11; Sp. p. 2995; Gaz. vol. 142; p. 514.
- Moran, L. W., Grafton, Ohio. Insulating trolley-wire hanger. No. 913,419; Feb. 23; Sp. p. 4936; Gaz. vol. 139; p. 883.
- Moran, N. W., Chicago, Ill. Artificial fish-bait. No. 934,087; Sept. 14; Sp. p. 2283; Gaz. vol. 146; p. 374.
- Moran, T. A., Mankato, Minn. Thill-coupling. No. 911,897; Feb. 9; Sp. p. 1701; Gaz. vol. 139; p. 315.
- Moraweck, E., Louisville, Ky. Surgical forceps. No. 948,263; Dec. 14; Sp. p. 2646; Gaz. vol. 149; p. 448.
- Moray, G. E., New York, N. Y. Sign. No. 918,888; Apr. 20; Sp. p. 4023; Gaz. vol. 141; p. 706.
- Morck, J., Mason City, Iowa. Centrifugal separator. No. 929,537; July 27; Sp. p. 5847; Gaz. vol. 144; p. 1028.
- Morcom, P. K., Denver, Colo. Self-cleaning oil-burner. No. 924,566; June 8; Sp. p. 3153; Gaz. vol. 143; p. 515.
- Morcom, R. K., and A. Jude, assignors to Belliss & Morcom, Limited, Birmingham, England. Turbine. No. 909,103; Jan. 5; Sp. p. 1376; Gaz. vol. 138; p. 225.
- Morcom, T., Norwood, Ohio. Whiffletree-hook. No. 921,267; May 11; Sp. p. 2391; Gaz. vol. 142; p. 419.
- Morden, Frog & Crossing Works. (See Blish and Bruff, assignors.)
- Morden, L. M., Waterbury, Conn. Temporary binder. No. 908,596; Jan. 5; Sp. p. 348; Gaz. vol. 138; p. 57.
- Morden, L. M., Waterbury, Conn. Temporary binder. No. 908,597; Jan. 5; Sp. p. 351; Gaz. vol. 138; p. 57.
- Morden, L. M., Waterbury, Conn. Temporary binder. No. 908,598; Jan. 5; Sp. p. 354; Gaz. vol. 138; p. 57.
- More, F., Kingston, N. Y. Electric-wire connector. No. 922,369; May 18; Sp. p. 4537; Gaz. vol. 142; p. 788.
- Moreau, J., St. Germain de Grantham, Quebec, Canada. Potato-digger. No. 920,978; May 11; Sp. p. 1802; Gaz. vol. 142; p. 320.
- Moreau, J., St. Germain de Grantham, Quebec, Canada. Rossing-machine. No. 924,918; June 15; Sp. p. 3913; Gaz. vol. 143; p. 668.
- Moreau, J., St. Germain de Grantham, Quebec, Canada. Potato-digger. No. 925,124; June 15; Sp. p. 4327; Gaz. vol. 143; p. 737.
- Moreau, J., assignor of one-third to J. G. Cornet and one-third to L. H. Ferger, Indianapolis, Ind. Vegetable-cutter. No. 941,161; Nov. 23; Sp. p. 5992; Gaz. vol. 148; p. 1008.
- Morehead, H. J. (See Purser, J. E., assignor.)
- Morehead, J., New Plymouth, Ohio. Wire-stretcher. No. 942,006; Nov. 30; Sp. p. 7791; Gaz. vol. 148; p. 1312.
- Morehouse, B. J., assignor to G. C. Walker, Granville, N. Y. Chain mat for wheel-tires. No. 911,427; Feb. 2; Sp. p. 781; Gaz. vol. 139; p. 138.
- Morehouse, E. W., Providence, R. I. Work-holding means. No. 924,178; June 8; Sp. p. 2366; Gaz. vol. 143; p. 387.
- Morehouse, E. W., assignor to B. A. Ballou & Company, Incorporated, Providence, R. I. Cuff-button. No. 935,122; Sept. 28; Sp. p. 4331; Gaz. vol. 146; p. 773.
- Morehouse, E. W., assignor to B. A. Ballou & Company, Incorporated, Providence, R. I. Link cuff-button. No. 939,851; Nov. 9; Sp. p. 3080; Gaz. vol. 148; p. 508.
- Morehouse, G. E., Kansas City, Mo. Carbureter. No. 920,979; May 11; Sp. p. 1803; Gaz. vol. 142; p. 320.
- Morehouse, S. A., Ashgrove, assignor of one-third to W. B. Foresman, La Fayette, Ind. Dumping-platform. No. 921,437; May 11; Sp. p. 2772; Gaz. vol. 142; p. 476.
- Moré, L. E., St. Hyacinthe, Quebec, Canada. Air-brake. No. 937,839; Oct. 26; Sp. p. 4666; Gaz. vol. 147; p. 808.
- Morlock, W. H. H., assignor of one-half to E. L. Westbrook, Jonesboro, Ark. Rotary engine. No. 935,160; Sept. 28; Sp. p. 4394; Gaz. vol. 146; p. 784.
- Morus, W. H., Lakeview, Iowa, assignor to Austin Manufacturing Company, Chicago, Ill. Deflector for ditching and grading machines. No. 923,064; May 25; Sp. p. 6125; Gaz. vol. 142; p. 1063.
- Morey, W. W., Columbus, Ohio. Door-check. No. 925,821; June 22; Sp. p. 5739; Gaz. vol. 143; p. 994.
- Morford, I. N., Waynesville, Ill. Wire-twister. No. 942,732; Dec. 7; Sp. p. 1450; Gaz. vol. 149; p. 237.
- Morgan, A. B., San Francisco, Cal. Portable sprayer. No. 941,528; Nov. 30; Sp. p. 6795; Gaz. vol. 148; p. 1151.
- Morgan, B., Newport, R. I. Hose-coupling. No. 909,200; Jan. 12; Sp. p. 1587; Gaz. vol. 138; p. 285.
- Morgan, B. J., St. Louis, Mo. Railway-frog. No. 931,073; Aug. 17; Sp. p. 3061; Gaz. vol. 145; p. 536.
- Morgan, B. S., Atlanta, Ga. Paper box and making paper boxes. No. 943,034; Dec. 14; Sp. p. 2170; Gaz. vol. 149; p. 371.
- Morgan, C. B., Oakland, Cal. Treating iron ore. No. 910,707; Jan. 26; Sp. p. 4660; Gaz. vol. 138; p. 847.
- Morgan, C. H. (See Clifford, A. J., assignor.)
- Morgan Construction Company. (See George, J. R., assignor.)
- Morgan, D. (See Frost and Morgan.)
- Morgan, D., Launceston, Tasmania, Australia. Apparatus for use in building structures of concrete or other plastic material. No. 913,538; Feb. 23; Sp. p. 5174; Gaz. vol. 139; p. 923.
- Morgan, D., Llandodock, England. Trap. No. 928,395; July 20; Sp. p. 3534; Gaz. vol. 144; p. 624.
- Morgan, D. F., Chicago, Ill. Valve. No. 928,874; July 20; Sp. p. 4491; Gaz. vol. 144; p. 782.
- Morgan, E. H., et al. (See Wensen, P., assignor.)
- Morgan, E. S., Jackson Mills, N. J. Type-writing machine. No. 912,710; Feb. 16; Sp. p. 3494; Gaz. vol. 139; p. 623.
- Morgan Engineering Company. (See Brosius, E. E., assignor.)
- Morgan Engineering Company. (See Morgan, W. H., assignor.)
- Morgan Engineering Company. (See Schultz, D. C., assignor.)
- Morgan Engineering Company. (See Taylor, C. L., assignor.)
- Morgan, F. A., assignor to Morgan Fare Register Company, Indianapolis, Ind. Indicating and recording device. No. 940,888; Nov. 23; Sp. p. 5410; Gaz. vol. 148; p. 917.
- Morgan, F. J., Clarendon, Maidenhead, England. Water-waste preventer. No. 909,638; Jan. 12; Sp. p. 2430; Gaz. vol. 138; p. 431.
- Morgan, F. L., Washington, D. C., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 918,459; Apr. 13; Sp. p. 3034; Gaz. vol. 141; p. 533.
- Morgan Fare Register Company. (See Morgan, F. A., assignor.)
- Morgan-Gardner Electric Company. (See Noble, R. E., assignor.)
- Morgan-Gardner Electric Company. (See Noble and Mitchell, assignors.)
- Morgan, H. H., Woodlawn, Ala. Attachment for planers. No. 918,889; Apr. 20; Sp. p. 4024; Gaz. vol. 141; p. 706.
- Morgan, H. W., Rochester, N. Y. Feed mechanism for printing-machines. No. 926,205; June 29; Sp. p. 6544; Gaz. vol. 143; p. 1157.
- Morgan, H. W., Rochester, N. Y. Nailing-machine. No. 943,035; Dec. 14; Sp. p. 2172; Gaz. vol. 149; p. 371.
- Morgan, I. E. (See Stevenson and Morgan.)
- Morgan, J. B., and C. R. Webster, Rochester, N. Y. Radiator-valve. No. 940,182; Nov. 16; Sp. p. 3846; Gaz. vol. 148; p. 653.
- Morgan, J. C., Ripley, W. Va. Photographic-printing frame. No. 909,639; Jan. 12; Sp. p. 2431; Gaz. vol. 138; p. 431.
- Morgan, J. C., Edgewater Heights, N. J. Stopping-handle. No. 928,140; July 13; Sp. p. 2960; Gaz. vol. 144; p. 506.
- Morgan, M. B., New York, N. Y. Sanitary bed-pan. No. 913,836; Mar. 2; Sp. p. 324; Gaz. vol. 140; p. 56.
- Morgan Spring Company. (See Scott, G. H., assignor.)
- Morgan Spring Company. (See Sleeper, F. H., assignor.)
- Morgan, T. L., Tywyn, England. Box. No. 909,009; Jan. 5; Sp. p. 1186; Gaz. vol. 138; p. 189.
- Morgan, T. M., Long Point, Quebec, Canada. Cement-kiln. No. 942,509; Dec. 7; Sp. p. 1013; Gaz. vol. 149; p. 163.
- Morgan, T. W. (See Hackett and Morgan.)
- Morgan, T. W., assignor to W. W. Marsh, Waterloo, Iowa. Centrifugal-cream-separator bowl. No. 910,011; Jan. 19; Sp. p. 3186; Gaz. vol. 138; p. 588.
- Morgan, V. F., assignor to Sachs Company, Hartford, Conn. Adaptable terminal contact for safety-fuses. No. 930,606; Aug. 10; Sp. p. 2026; Gaz. vol. 145; p. 355.
- Morgan, W., Fort Plain, N. Y. Collapsible propeller mechanism. No. 931,456; Aug. 17; Sp. p. 3872; Gaz. vol. 145; p. 667.
- Morgan, W. C., Roxbury, Mass., assignor to Bigelow, Kennard & Co. Gong for clocks. No. 922,021; May 18; Sp. p. 3981; Gaz. vol. 142; p. 696.



*Alphabetical list of patentees—Continued.*

- Morgan, W. H., assignor to Morgan Engineering Company, Alliance, Ohio. Traveling crane. No. 913,031; Feb. 23; Sp. p. 4140; Gaz. vol. 139; p. 752.
- Morgan, W. H., and J. Densley, Weston-super-Mare, assignors to Walls Limited, Birmingham, England. Apparatus for the manufacture of gas. No. 936,144; Oct. 5; Sp. p. 1150; Gaz. vol. 147; p. 174.
- Morgan, W. S. (See Pearson, J. H., assignor.)
- Morgan, W. S., Minneapolis, Minn. Clothes-drier. No. 908,481; Jan. 5; Sp. p. 97; Gaz. vol. 138; p. 18.
- Morgan, Z. D. (See Snow, W. J., assignor.)
- Morganstern, R. C., and E. A. Shepard, Portland, Oreg. Car-fender. No. 928,615; July 20; Sp. p. 3982; Gaz. vol. 144; p. 695.
- Morganthaler, P. C., Fort Wayne, Ind., assignor to General Electric Company. Electric meter. No. 925,125; June 15; Sp. p. 4329; Gaz. vol. 143; p. 738.
- Morganthaler, P. C., Fort Wayne, Ind., assignor to Fort Wayne Electric Works. Electric meter. No. 941,459; Nov. 30; Sp. p. 6654; Gaz. vol. 148; p. 1128.
- Morgenstern, F., McKees Rocks, Pa. Oil-well pump. No. 918,460; Apr. 13; Sp. p. 3036; Gaz. vol. 141; p. 533.
- Moriarty, D. F., New Orleans, La. Tire. No. 936,924; Oct. 12; Sp. p. 2748; Gaz. vol. 147; p. 459.
- Moriarty, D. F. (See Flynn, J. A., assignor.)
- Moriarty, J. J., Jersey City, N. J., assignor of one-half to T. F. McCarthy, New York, N. Y. Combination feed-box and driver's back-rest. No. 938,069; Oct. 26; Sp. p. 5157; Gaz. vol. 147; p. 885.
- Morie, J. T., and J. Magnanelli, Youngstown, Ohio. Automatic-stripping ingot-mold. No. 933,658; Sept. 7; Sp. p. 1410; Gaz. vol. 146; p. 212.
- Moriggi, C., assignor to A. Saurer, Arbon, Switzerland. Perforating or pricking apparatus for embroidery-machines. No. 938,884; Nov. 2; Sp. p. 942; Gaz. vol. 148; p. 149.
- Morigi, L., New York, N. Y. Means for facilitating the circulation of air under hats. No. 923,986; June 8; Sp. p. 1960; Gaz. vol. 143; p. 325.
- Morin, J. H., Millbury, Mass. Loom-shuttle. No. 911,058; Feb. 2; Sp. p. 72; Gaz. vol. 139; p. 13.
- Morin, J. H., Millbury, Mass. Shuttle. No. 924,567; June 8; Sp. p. 3155; Gaz. vol. 143; p. 515.
- Morison, J. A., guardian. (See Woolley, L. G.)
- Morison, M. F. (See Froehlich and Morison.)
- Moritz, A., *et al.* (See Jacob, R. F., assignor.)
- Moritz, A., Montgomery, assignor of one-fifth to C. A. Wickersham, Fulton county, one-fifth to W. N. Cox, one-fifth to O. H. Attridge, and one-fifth to F. G. Bennett, Montgomery county, Ala. Car-coupling. No. 927,423; July 6; Sp. p. 1447; Gaz. vol. 144; p. 240.
- Moritz, J. G., Grafton, W. Va. Apparatus for forming vases. No. 909,640; Jan. 12; Sp. p. 2432; Gaz. vol. 138; p. 432.
- Moritz, S. S., Dayton, Wash. Skirt-marker. No. 944,570; Dec. 28; Sp. p. 5485; Gaz. vol. 149; p. 952.
- Morkrum Company. (See Krum, C. L., assignor.)
- Morley Button Manufacturing Company. (See Bennett, W. E., assignor.)
- Morley Button Manufacturing Company. (See Keene, W. G., assignor.)
- Morley, N. W., Mentor, Ohio, assignor to Dodge Coal Storage Company, Naugatuck, Conn. Hoisting apparatus. No. 923,685; June 1; Sp. p. 1259; Gaz. vol. 143; p. 196.
- Morlock, A. J., New York, N. Y. Separator. No. 931,457; Aug. 17; Sp. p. 3874; Gaz. vol. 145; p. 668.
- Morlock, W. M. (See Miller, Morlock, and Carlson.)
- Mornes, T. L. (See Patterson, Mornes, and Zieme.)
- Morningstar, J. P. (See Vernon and Morningstar.)
- Morrell, E. S., Philadelphia, Pa. Junction-box coupling. No. 915,990; Mar. 23; Sp. p. 4794; Gaz. vol. 140; p. 847.
- Morrell, E. S., Philadelphia, Pa. Junction-box coupling. No. 917,342; Apr. 6; Sp. p. 790; Gaz. vol. 141; p. 135.
- Morrell, F. R., Green Bay, Wis. Filter or strainer for water-jugs, canteens, and the like. No. 929,153; July 27; Sp. p. 5077; Gaz. vol. 144; p. 902.
- Morrell, H. H., New York, N. Y. Current-testing device. No. 944,271; Dec. 28; Sp. p. 4785; Gaz. vol. 149; p. 847.
- Morrell, W. B. (See Bardon, J. J., assignor.)
- Morrell, W. G. (See Bolland, W. H., assignor.)
- Morrill, E. A., Gettysburg, S. D. Fence-post. No. 930,607; Aug. 10; Sp. p. 2027; Gaz. vol. 145; p. 355.
- Morrill, F. E., San Francisco, Cal. Card-attaching device. No. 936,145; Oct. 5; Sp. p. 1152; Gaz. vol. 147; p. 175.
- Morrill, G. P., Canterbury, N. H. Ax and tool handle wedge. No. 928,322; July 20; Sp. p. 3407; Gaz. vol. 144; p. 599.
- Morrill, H. M., Tekonsha, Mich. Garden-tool. No. 937,219; Oct. 19; Sp. p. 3371; Gaz. vol. 147; p. 583.
- Morrill, J. G., Bradford, Pa. Garment-supporter. No. 916,472; Mar. 30; Sp. p. 5724; Gaz. vol. 140; p. 1033.
- Morrill, R., Benton Harbor, Mich. Treating cylinders. No. 932,802; Aug. 31; Sp. p. 6731; Gaz. vol. 145; p. 1154.
- Morrill, W. C., New York, N. Y. Liquid-discharging device. No. 911,834; Feb. 9; Sp. p. 1583; Gaz. vol. 139; p. 294.
- Morrill, W. C., New York, N. Y. Cover-lock. No. 917,786; Apr. 13; Sp. p. 1658; Gaz. vol. 141; p. 307.
- Morrill, W. C., New York, N. Y. Wall-bracket. No. 936,552; Oct. 12; Sp. p. 2014; Gaz. vol. 147; p. 332.
- Morrill, W. H., assignor of one-half to H. D. Walton, Bangor, Me. Bag-tie. No. 942,007; Nov. 30; Sp. p. 7792; Gaz. vol. 148; p. 1312.
- Morris, C. A., Bloomfield, N. J., assignor of three-eighths to C. M. Dimm and three-eighths to L. Brooks, Brooklyn, N. Y. Variable-speed transmission-gear apparatus. No. 943,985; Dec. 21; Sp. p. 4197; Gaz. vol. 149; p. 726.
- Morris, C. E., Lane, Kans. Check-controlled apparatus. No. 914,596; Mar. 9; Sp. p. 1974; Gaz. vol. 140; p. 337.
- Morris, C. G., *et al.* (See Donnelly, S. E., assignor.)
- Morris and Company. (See Farris, W. B., assignor.)
- Morris, D. K., and G. A. Lister, Coventry, England. Electrical switch and the like. No. 926,584; June 29; Sp. p. 7245; Gaz. vol. 143; p. 1281.
- Morris, E., Newark, N. J., assignor to Shiman Miller Manufacturing Company, New York, N. Y. Hinge-joint for lockets, &c. No. 939,530; Nov. 9; Sp. p. 2395; Gaz. vol. 148; p. 397.
- Morris, E., Jr., Baltimore, Md. Garment-supporting strap. No. 939,058; Nov. 2; Sp. p. 1300; Gaz. vol. 148; p. 210.
- Morris, E., and C. Rinaman, Pittsburg, Pa. Water-inlet valve for flush-tanks. No. 921,268; May 11; Sp. p. 2392; Gaz. vol. 142; p. 419.
- Morris, G. W., Racine, Wis. Vehicle-wheel. No. 917,883; Apr. 13; Sp. p. 1857; Gaz. vol. 141; p. 339.
- Morris, G. W., Racine, Wis. Vehicle-wheel. No. 917,884; Apr. 13; Sp. p. 1859; Gaz. vol. 141; p. 339.
- Morris, G. W., Racine, Wis. Engine-setting for horizontal boilers. No. 941,460; Nov. 30; Sp. p. 6655; Gaz. vol. 148; p. 1128.
- Morris, H., Oklahoma, Okla. Window-opener. No. 944,628; Dec. 28; Sp. p. 5605; Gaz. vol. 149; p. 972.
- Morris, H., Hermosa Beach, assignor of one-half to H. R. Gage, Oceanpark, Cal. Flushing apparatus. No. 931,948; Aug. 24; Sp. p. 4942; Gaz. vol. 145; p. 848.
- Morris, H. B., Michigan City, Ind. Material for making articles of furniture, &c. No. 926,996; July 6; Sp. p. 595; Gaz. vol. 144; p. 98.
- Morris, H. B., Michigan City, Ind. Manufacturing material for making articles of furniture, &c. No. 928,266; July 20; Sp. p. 3265; Gaz. vol. 144; p. 530.
- Morris, H. J., New Britain, Conn. Protective device for gas-meters. No. 932,162; Aug. 24; Sp. p. 5391; Gaz. vol. 145; p. 919.
- Morris, H. P., Richmond, Va. Post-card album. No. 934,333; Sept. 14; Sp. p. 2755; Gaz. vol. 146; p. 458.
- Morris, J., Moore Park, near Sydney, and S. A. B. Marks, Potts Point, near Sydney, New South Wales, Australia. Lady's hat-fastening. No. 933,659; Sept. 7; Sp. p. 1413; Gaz. vol. 146; p. 212.
- Morris, J. H., Bingara, New South Wales, Australia. Seed-sowing machine. No. 944,897; Dec. 28; Sp. p. 6173; Gaz. vol. 149; p. 1063.
- Morris, J. M., Bristol, England. Feeding means for acetylene-generators. No. 920,607; May 4; Sp. p. 1036; Gaz. vol. 142; p. 169.
- Morris, J. O., Chicago, Ill. Rail-brace. No. 924,919; June 15; Sp. p. 3916; Gaz. vol. 143; p. 668.
- Morris, J. T. (See Stilwell, C. B., assignor.)
- Morris, L., New York, N. Y. Pipe. No. 941,027; Nov. 23; Sp. p. 5710; Gaz. vol. 148; p. 963.
- Morris, L. S., Bridgeport, Conn. File-cabinet. No. 926,759; July 6; Sp. p. 108; Gaz. vol. 144; p. 17.
- Morris, N. L. (See Magdiel, J. H. and D. H., assignors.)
- Morris, N. L., *et al.* (See Magdiel, D. H., assignor.)
- Morris, O. M., Spring Lake Beach, N. J. Suspensory bandage. No. 924,367; June 8; Sp. p. 2770; Gaz. vol. 143; p. 451.
- Morris, P. W., Bridgeport, Conn. Widow's-cruse tank device. No. 933,484; Sept. 7; Sp. p. 1076; Gaz. vol. 146; p. 155.
- Morris, R. C., assignor of one-fourth to G. C. Terry and one-fourth to C. O. Tice, Louisville, Ky. Form or mold for concrete receptacles. No. 939,059; Nov. 2; Sp. p. 1301; Gaz. vol. 148; p. 210.
- Morris, S. A., Buffalo, Tex. Monocycle. No. 914,597; Mar. 9; Sp. p. 1980; Gaz. vol. 140; p. 338.
- Morris, T., Mornington, near Dunedin, New Zealand. Holdfast spring-catch. No. 938,267; Oct. 26; Sp. p. 5583; Gaz. vol. 147; p. 954.
- Morris, W. (See Hubbell and Morris.)
- Morris, W. B. (See Mable, W., assignor.)
- Morris, W. C., New York, N. Y. Garment-hanger. No. 922,310; May 18; Sp. p. 4538; Gaz. vol. 142; p. 789.
- Morris, W. C., New York, N. Y., assignor to Bartlett, Hayward & Co., Baltimore, Md. Liquid-surface drain for gas-holders. No. 914,298; Mar. 2; Sp. p. 1366; Gaz. vol. 140; p. 212.
- Morris, W. H., Shadyside, assignor of one-fourth to J. M. Du Bois and one-fourth to C. Wassman, Bellaire, Ohio. Match-delivery apparatus. No. 921,617; May 11; Sp. p. 3127; Gaz. vol. 142; p. 535.

*Alphabetical list of patentees—Continued.*

- Morris, W. L., Cleveland, Ohio. Oil-cup. No. 924,487; June 8; Sp. p. 2995; Gaz. vol. 143; p. 489.
- Morrish, T. I., San Francisco, Cal. Saddle-pad. No. 944,571; Dec. 28; Sp. p. 5487; Gaz. vol. 149; p. 952.
- Morrish, T. I., San Francisco, Cal. Securing means for saddle-pads. No. 944,572; Dec. 28; Sp. p. 5488; Gaz. vol. 149; p. 952.
- Morrison, A., Pittsburg, Pa. Guard-rail system. No. 921,140; May 11; Sp. p. 2131; Gaz. vol. 142; p. 375.
- Morrison, A., Pittsburg, Pa. Tie-plate for railways. No. 921,724; May 18; Sp. p. 3361; Gaz. vol. 142; p. 598.
- Morrison, A., Pittsburg, Pa. Railway-tie. No. 924,568; June 8; Sp. p. 3157; Gaz. vol. 143; p. 516.
- Morrison, B. J., assignor to Atlas Engine Works, Indianapolis, Ind. Stopper. No. 931,458; Aug. 17; Sp. p. 3876; Gaz. vol. 145; p. 668.
- Morrison, B. L., Colorado Springs, Colo. Hose-clamp. No. 925,013; June 15; Sp. p. 4119; Gaz. vol. 143; p. 701.
- Morrison, C. E., Indianapolis, Ind. Detachable hinge-holder. No. 943,363; Dec. 14; Sp. p. 2864; Gaz. vol. 149; p. 482.
- Morrison, C. W., Pearl, W. Va. Horseshoe. No. 920,366; May 4; Sp. p. 561; Gaz. vol. 142; p. 90.
- Morrison, D. W., Indiana Harbor, Ind. Roof-truss. No. 915,461; Mar. 16; Sp. p. 3720; Gaz. vol. 140; p. 645.
- Morrison, E. E. (See Thompson and Morrison.)
- Morrison, E. R., J. Riddell, and R. G. Morrison, Sharon, Pa. Controlling-valve. No. 915,991; Mar. 23; Sp. p. 4795; Gaz. vol. 140; p. 848.
- Morrison, G. D., Gadberry, Ky. Bolt-extractor. No. 913,226; Feb. 23; Sp. p. 4549; Gaz. vol. 139; p. 817.
- Morrison, G. L., Hudson, Mich. Butter-plate. No. 917,962; Apr. 13; Sp. p. 2018; Gaz. vol. 141; p. 367.
- Morrison, J., Montreal, Quebec, Canada. Water-closet seat. No. 920,608; May 4; Sp. p. 1040; Gaz. vol. 142; p. 169.
- Morrison, J. A., *et al.* (See Cox, W. H., assignor.)
- Morrison, J. A., Beverly, Mass. Tide-valve. No. 913,227; Feb. 23; Sp. p. 4550; Gaz. vol. 139; p. 187.
- Morrison, J. G., New York, N. Y. Gearing. No. 939,153; Nov. 2; Sp. p. 1506; Gaz. vol. 148; p. 244.
- Morrison, J. H., Dayton, Ohio. Lamp-burner. No. 934,453; Sept. 21; Sp. p. 2993; Gaz. vol. 146; p. 522.
- Morrison, J. R., Kennewick, Wash. Motor. No. 928,782; July 20; Sp. p. 4305; Gaz. vol. 144; p. 751.
- Morrison, J. T., Minneapolis, Minn. Tank-valve. No. 943,755; Dec. 21; Sp. p. 3715; Gaz. vol. 149; p. 646.
- Morrison, J. W., Batavia, N. Y. Filter. No. 927,743; July 13; Sp. p. 2159; Gaz. vol. 144; p. 374.
- Morrison, J. W., assignor to Steam Appliance Manufacturing Company, Batavia, N. Y. Water-purifier. No. 938,778; Nov. 2; Sp. p. 700; Gaz. vol. 148; p. 113.
- Morrison, J. W., assignor to Steam Appliance Manufacturing Company, Batavia, N. Y. Purifying water. No. 938,779; Nov. 2; Sp. p. 702; Gaz. vol. 148; p. 113.
- Morrison, M. E., Bartley, Nebr. Skirt-measurer. No. 942,338; Dec. 7; Sp. p. 655; Gaz. vol. 149; p. 105.
- Morrison, P., Chattanooga, Tenn. Knockdown article of furniture. No. 918,352; Apr. 13; Sp. p. 2820; Gaz. vol. 141; p. 499.
- Morrison, R. G. (See Morrison, Riddell, and Morrison.)
- Morrison, S. F., Columbus, Ohio. Car-truck. No. 917,343; Apr. 6; Sp. p. 791; Gaz. vol. 141; p. 135.
- Morrison, S. P., Stuttgart, Ark. Packing. No. 926,676; June 29; Sp. p. 7429; Gaz. vol. 143; p. 1311.
- Morrison, W., *et al.* (See Perry, D. P., assignor.)
- Morrison, W., Chicago, Ill. Secondary battery. No. 916,575; Mar. 30; Sp. p. 5943; Gaz. vol. 140; p. 1066.
- Morrison, W., Chicago, Ill. Secondary battery. No. 940,043; Nov. 16; Sp. p. 3535; Gaz. vol. 143; p. 605.
- Morrison, W., assignor, by mesne assignments, to Bulkley, Durand & Drury, Chicago, Ill. Secondary-battery plate. No. 916,576; Mar. 30; Sp. p. 5948; Gaz. vol. 140; p. 1067.
- Morrison, W., assignor, by mesne assignments, to Exmoor Storage Battery Company, Chicago, Ill. Making storage-battery plates. No. 917,787; Apr. 13; Sp. p. 1659; Gaz. vol. 141; p. 307.
- Morrison, W., assignor, by mesne assignments, to D. P. Perry, Chicago, Ill. Preparing storage-battery plates. No. 935,316; Sept. 28; Sp. p. 4712; Gaz. vol. 146; p. 836.
- Morrison, W. B. (See Van Wye, G. P., assignor.)
- Morrison, W. J., Wheeling, W. Va. Wrench. No. 934,929; Sept. 21; Sp. p. 3924; Gaz. vol. 146; p. 680.
- Morrison, W. S., Oakland, Cal. Machine for closing collapsible tubes and applying keys thereto. No. 920,609; May 4; Sp. p. 1041; Gaz. vol. 142; p. 169.
- Morrison, W. S., Oakland, Cal. Preparing concentrated hydrated magnesia. No. 926,280; June 29; Sp. p. 6690; Gaz. vol. 143; p. 1180.
- Morrison, W. T., New York, N. Y. Return-envelop. No. 932,715; Aug. 31; Sp. p. 6540; Gaz. vol. 145; p. 1127.
- Morrow, A. P., Elmira, N. Y. Back-pedaling coaster-brake. No. 911,835; Feb. 9; Sp. p. 1584; Gaz. vol. 139; p. 294.
- Morrow, A. P., Elmira, N. Y. Coaster and brake device. No. 931,787; Aug. 24; Sp. p. 4588; Gaz. vol. 145; p. 795.
- Morrow, F. M., Turtle Creek, Pa. Loe. No. 931,949; Aug. 24; Sp. p. 4944; Gaz. vol. 145; p. 848.
- Morrow, H. (See Clergy and Morrow.)
- Morrow, H. W., Lisbon, Ohio. Box-lid holder. No. 922,611; May 25; Sp. p. 5180; Gaz. vol. 142; p. 917.
- Morrow, J. B., assignor to Pepperell Card & Paper Company, Pepperell, Mass. Paper-coating machine. No. 927,995; July 13; Sp. p. 2684; Gaz. vol. 144; p. 458.
- Morrow, T. T., Ray, Ind. Snap-hook. No. 939,531; Nov. 9; Sp. p. 2396; Gaz. vol. 148; p. 398.
- Morrow, W., Fremont, Nebr. Changeable-speed gearing. No. 914,860; Mar. 9; Sp. p. 2538; Gaz. vol. 140; p. 424.
- Morrow, W. E., East Cleveland, Ohio. Water-heater. No. 936,014; Oct. 5; Sp. p. 875; Gaz. vol. 147; p. 132.
- Morsbach, A. (See Ricke, G. H., assignor.)
- Morscher, L. N. (See Blake and Morscher.)
- Morscher, L. N., *et al.*, trustees. (See Morscher, L. N., assignor.)
- Morscher, L. N., assignor to said Morscher and William J. Ehrsam Co., trustees, Enterprise, Kans. Electrical separation of particles from a fluid stream. No. 916,746; Mar. 30; Sp. p. 6247; Gaz. vol. 140; p. 1118.
- Morse, A. J., Baltimore, Md. Apparatus for treating garbage. No. 910,407; Jan. 19; Sp. p. 4044; Gaz. vol. 138; p. 725.
- Morse, B. E., Canton, Mass. Sheet-metal can-opener. No. 918,074; Apr. 13; Sp. p. 2267; Gaz. vol. 141; p. 407.
- Morse, B. E., Canton, Mass. Can-opener. No. 927,744; July 13; Sp. p. 2161; Gaz. vol. 144; p. 374.
- Morse Chain Company. (See Morse, E. F., assignor.) (Reissue.)
- Morse, E. A., Liberty, Nebr. Delivery system and apparatus therefor. No. 909,925; Jan. 19; Sp. p. 3020; Gaz. vol. 138; p. 559.
- Morse, E. A., Liberty, Nebr., assignor to one-half to O. Adams, Rio, Ill. Apparatus for collecting and delivering mail. No. 934,619; Sept. 21; Sp. p. 3321; Gaz. vol. 146; p. 578.
- Morse, E. F., assignor to Morse Chain Company, Trumansburg, N. Y. Chain driving-gear. (Reissue.) No. 12,912; Jan. 19; Sp. p. 4202; Gaz. vol. 138; p. 750.
- Morse, E. L. C., Chicago, Ill. Magazine plate-holder for cameras. No. 927,063; July 6; Sp. p. 769; Gaz. vol. 144; p. 122.
- Morse, G. F., Peru, N. Y. Device for use in picking grapes. No. 936,146; Oct. 5; Sp. p. 1153; Gaz. vol. 147; p. 175.
- Morse, G. W., assignor to Parish & Bingham Company, Cleveland, Ohio. Step or running-board. No. 938,163; Oct. 26; Sp. p. 5374; Gaz. vol. 147; p. 917.
- Morse, H. B., assignor to Morse Manufacturing Company, Portland, Me. Drawer-support. No. 917,885; Apr. 13; Sp. p. 1861; Gaz. vol. 141; p. 339.
- Morse, L. L., San Francisco, Cal. Display-rack. No. 918,186; Apr. 13; Sp. p. 2477; Gaz. vol. 141; p. 443.
- Morse Manufacturing Company. (See Morse, H. B., assignor.)
- Morse, O. M., Jackson, Mich. Dust-collector. No. 926,206; June 29; Sp. p. 6546; Gaz. vol. 143; p. 1157.
- Morse, O. M., Jackson, Mich. Dust-collector. No. 942,657; Dec. 7; Sp. p. 1301; Gaz. vol. 149; p. 213.
- Morse, O. M., Jackson, Mich. Dust-collector. No. 943,439; Dec. 14; Sp. p. 3009; Gaz. vol. 149; p. 508.
- Morse, S. L., Athol, Mass. Ventilator. No. 933,383; Sept. 7; Sp. p. 800; Gaz. vol. 146; p. 123.
- Morse Twist Drill & Machine Co. (See Chace, V. C., assignor.)
- Morse Twist Drill and Machine Co. (See Stearns, R. H., assignor.)
- Morse Twist Drill & Machine Company. (See Bradley, H. E., assignor.)
- Morse Twist Drill & Machine Company. (See Haber, E., assignor.)
- Morse Twist Drill & Machine Company. (See Malmédie, C. H., assignor.)
- Morse, V. E., Shelton, Conn. Hook-fastener. No. 934,826; Sept. 21; Sp. p. 3724; Gaz. vol. 146; p. 647.
- Morse, W. A. (See Fiala, A. F., assignor.)
- Morse, W. A., Westport, N. Y. Electric switch. No. 941,266; Nov. 23; Sp. p. 6224; Gaz. vol. 148; p. 1043.
- Morse, W. F., assignor to S. R. Parry, Rochester, N. Y. Gluing-machine. No. 920,367; May 4; Sp. p. 563; Gaz. vol. 142; p. 90.
- Morse, W. F., assignor to S. R. Parry, Rochester, N. Y. Corner-staying machine. No. 937,840; Oct. 26; Sp. p. 4669; Gaz. vol. 147; p. 802.
- Morsey-Picard, H. von, and E. von Verschuer, assignors to F. Hacklander, Cassel, Germany, and W. Scheck, St. Paul, Minn. Process and apparatus for drying peat by air-currents. No. 914,598; Mar. 9; Sp. p. 1983; Gaz. vol. 140; p. 338.
- Morss, S. B., Rahway, N. J. Lamp-burner. No. 941,163; Nov. 23; Sp. p. 6001; Gaz. vol. 148; p. 1009.
- Morten, F. M., Norwood, Ohio. Apparatus for cleaning the hulls of ships. No. 918,890; Apr. 20; Sp. p. 4026; Gaz. vol. 141; p. 706.
- Mortensen, C. C. M., Schenectady, N. Y., assignor to General Electric Company. Machine for riveting bucket-covers for turbines. No. 917,100; Apr. 6; Sp. p. 280; Gaz. vol. 141; p. 51.
- Mortensen, M., Hyde Park, assignor to O. M. Dahl, Roxbury, Boston, Mass. Rotary pump. No. 919,058; Apr. 20; Sp. p. 4355; Gaz. vol. 141; p. 760.
- Mortensen, O., Freeport, Copenhagen, Denmark. Milking-machine. No. 923,065; May 25; Sp. p. 6131; Gaz. vol. 142; p. 1063.



*Alphabetical list of patentees—Continued.*

- Mortenson, H. (See Bing, A., assignor.)  
Mortenson, H., New York, assignor of one-fourth to W. F. Clark, Brooklyn, N. Y. Window. No. 936,147; Oct. 5; Sp. p. 1154; Gaz. vol. 147; p. 175.  
Mortimer, A. V. (See Mortimer, R., assignor.)  
Mortimer, J. H. (See Honey and Mortimer.)  
Mortimer, J. N., and E. L. Strauss, assignors to Central Brass Manufacturing Company, Cleveland, Ohio. Compression-bib. No. 944,457; Dec. 28; Sp. p. 5207; Gaz. vol. 149; p. 912.  
Mortimer, R., assignor to A. V. Mortimer, Dudley, Ontario, Canada. Gun-sight. No. 917,101; Apr. 6; Sp. p. 282; Gaz. vol. 141; p. 51.  
Morton, A. M., Little Rock, Ark. Foldable umbrella. No. 940,346; Nov. 16; Sp. p. 4217; Gaz. vol. 148; p. 711.  
Morton, E. F., Portland, Me. Index attachment for telephone-directories. No. 909,641; Jan. 12; Sp. p. 2434; Gaz. vol. 138; p. 432.  
Morton, F. B., Pasadena, Cal. Soil-pipe fitting. No. 942,339; Dec. 7; Sp. p. 657; Gaz. vol. 149; p. 105.  
Morton, F. B., Pasadena, assignor of one-half to G. E. Harpham, Los Angeles, Cal. Plumbing-fitting. No. 922,311; May 18; Sp. p. 4539; Gaz. vol. 142; p. 789.  
Morton, F. M., and W. H. Dismuke, Phoenix, Ala. Slipper or muzzle for drawing-on machines for drawing roll-covers. No. 929,154; July 27; Sp. p. 5078; Gaz. vol. 144; p. 902.  
Morton, F. M., and W. H. Dismuke, Phoenix, Ala. Cotton-bale-tie straightening and cleaning machine. No. 939,532; Nov. 9; Sp. p. 2397; Gaz. vol. 148; p. 398.  
Morton, G. L., Four Oaks, Sutton Coldfield, England. Gas-producer. No. 939,288; Nov. 9; Sp. p. 1824; Gaz. vol. 148; p. 315.  
Morton, H. E. (See Morton, M. and H. E.)  
Morton, H. E., Muskegon Heights, Mich. Attachment for draw-cut shapers. No. 910,216; Jan. 19; Sp. p. 3611; Gaz. vol. 138; p. 656.  
Morton, H. U., Chicago, Ill. Car-sheathing. No. 920,981; May 11; Sp. p. 1806; Gaz. vol. 142; p. 320.  
Morton, J. A., et al. (See Wright, J. C. and B., assignors.)  
Morton, J. B., Morehead City, N. C. Trousers. No. 916,577; Mar. 30; Sp. p. 5949; Gaz. vol. 140; p. 1067.  
Morton, J. C., assignor of one-half to O. P. Cassity, Eldorado Springs, Mo. Buggy-top support. No. 929,155; July 27; Sp. p. 5079; Gaz. vol. 144; p. 902.  
Morton, L. D., Digby, Nova Scotia, Canada. Sulky-stirrur. No. 908,599; Jan. 5; Sp. p. 356; Gaz. vol. 138; p. 58.  
Morton, M., Muskegon Heights, Mich. Tool-holder and means for setting the tools therein. No. 940,938; Nov. 23; Sp. p. 5519; Gaz. vol. 148; p. 934.  
Morton, M. and H. E., Muskegon Heights, Mich. Supporting mechanism for draw-cut shapers and analogous machines. No. 934,088; Sept. 14; Sp. p. 2284; Gaz. vol. 146; p. 375.  
Morton, S. S., assignor to Ohio Manufacturing Company, Upper Sandusky, Ohio. Propelling mechanism for motor-vehicles. No. 914,968; Mar. 9; Sp. p. 2717; Gaz. vol. 140; p. 457.  
Morton, W. E., Shelby, N. C. Slub detecting and removing mechanism. No. 935,676; Oct. 5; Sp. p. 110; Gaz. vol. 147; p. 19.  
Morton, W. E., Shelby, N. C. Slub detecting and removing mechanism. No. 944,898; Dec. 28; Sp. p. 6175; Gaz. vol. 149; p. 1063.  
Morton, W. S., Edinburgh, Scotland. Picture or similar frame. No. 908,482; Jan. 5; Sp. p. 99; Gaz. vol. 138; p. 19.  
Mortsoff, L. H. (See Woche, Lemon, and Mortsoff.)  
Mortson, G., Hartford, Conn. Carton. No. 931,074; Aug. 17; Sp. p. 3063; Gaz. vol. 145; p. 537.  
Mory, H. C. (See McDermott and Mory.)  
Mosicki, I., Freiburg, Switzerland. Process and apparatus for producing oxides of nitrogen by means of a rotary flame. No. 920,610; May 4; Sp. p. 1045; Gaz. vol. 142; p. 170.  
Mosicki, I., Fribourg-Gambach, Switzerland. Apparatus for treating gases by electricity. No. 930,212; Aug. 3; Sp. p. 1215; Gaz. vol. 145; p. 200.  
Mosicki, I., Gambach, near Fribourg, Switzerland. Treating gases electrically. No. 933,094; Sept. 7; Sp. p. 121; Gaz. vol. 146; p. 20.  
Moscovitz, S. B., New York, N. Y. Exhibiting apparatus. No. 942,008; Nov. 30; Sp. p. 7793; Gaz. vol. 148; p. 1312.  
Moseke, A., Minden, Germany. Wiper. No. 916,755; Mar. 30; Sp. p. 6262; Gaz. vol. 140; p. 1120.  
Moseley, H. N., Elgin, Ill. Pipe-joint. No. 932,633; Aug. 31; Sp. p. 6372; Gaz. vol. 145; p. 1099.  
Moseley, W., London, England. Secondary electric battery or accumulator. No. 930,213; Aug. 3; Sp. p. 1219; Gaz. vol. 145; p. 200.  
Moseman, J. E., Donaldsonville, La. Vehicle-cushion. No. 937,628; Oct. 19; Sp. p. 4233; Gaz. vol. 147; p. 721.  
Moser, A., et al. (See Huber, G. A., assignor.)  
Moser, E., and K. Schwaiger, Munich, Germany. Horseshoe. No. 912,711; Feb. 16; Sp. p. 3498; Gaz. vol. 139; p. 624.  
Moser, F., Auburn, N. Y. Nut-lock. No. 936,553; Oct. 12; Sp. p. 2015; Gaz. vol. 147; p. 332.  
Moser, F. J., Kane, Pa. Reel. No. 923,559; June 1; Sp. p. 992; Gaz. vol. 143; p. 152.  
Moser, L. J., assignor, by mesne assignments, to Cory Temperance Syndicate Limited, London, England. Dispensing apparatus. No. 944,458; Dec. 28; Sp. p. 5208; Gaz. vol. 149; p. 912.  
Moser, R. B., et al. (See Sayers, O. J., assignor.)  
Moser, S. T., Hunt Dale, N. C. Armored tire. No. 928,064; July 13; Sp. p. 2828; Gaz. vol. 144; p. 482.  
Moses, E. C., Dorchester, Mass. Piano-sounding-board press. No. 914,061; Mar. 2; Sp. p. 874; Gaz. vol. 140; p. 135.  
Moses, H. C., deceased, New York, N. Y.; H. C. Moses administrator. Combined tobacco box and cutter. No. 924,569; June 8; Sp. p. 3158; Gaz. vol. 143; p. 516.  
Moses, J. B., Dallas, Tex. Baggage-fastener. No. 942,733; Dec. 7; Sp. p. 1451; Gaz. vol. 149; p. 237.  
Moses, P. R., New York, N. Y. Attachment for radiator-valves. No. 919,372; Apr. 27; Sp. p. 5181; Gaz. vol. 141; p. 898.  
Mosher, B. E., Palestine, Tex. Cattle-guard. No. 932,634; Aug. 31; Sp. p. 6374; Gaz. vol. 145; p. 1100.  
Mosher, C. P., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 923,438; June 1; Sp. p. 729; Gaz. vol. 143; p. 108.  
Mosher, D., assignor to Ammonia Cyanide Engineering Company, San Francisco, Cal. Ammonia-cyanid process of treating ores containing precious metals. No. 911,254; Feb. 2; Sp. p. 464; Gaz. vol. 139; p. 80.  
Mosher, F. R., Parlier, Cal. Plow. No. 938,686; Nov. 2; Sp. p. 533; Gaz. vol. 148; p. 82.  
Mosher, J., Marietta, Ohio, assignor to Strecker Bros. Company. Harness saddle-pad. No. 916,352; Mar. 23; Sp. p. 5453; Gaz. vol. 140; p. 908.  
Mosher, J. A., Wellington, Ohio. Lantern. No. 910,708; Jan. 26; Sp. p. 4661; Gaz. vol. 138; p. 847.  
Mosher, J. A., Chicago, Ill., assignor to Adams & Westlake Company. Riveting-machine. No. 928,783; July 20; Sp. p. 4306; Gaz. vol. 144; p. 751.  
Mosher, M. A. (See Neel, W. C., assignor.)  
Mosher, M. C., Des Moines, Iowa. Tabulating scale-bar. No. 909,313; Jan. 12; Sp. p. 1803; Gaz. vol. 138; p. 323.  
Mosher, R. E., Grand Rapids, Mich. Latch. No. 915,873; Mar. 23; Sp. p. 4563; Gaz. vol. 140; p. 811.  
Mosher, W., I. A. Roche, and J. C. Foston, Dartmouth, Nova Scotia, Canada. Hoop-fastener. No. 922,022; May 18; Sp. p. 3983; Gaz. vol. 142; p. 697.  
Mosicki, I., Gambach, near Freiburg, Switzerland. Electrolyte-condenser. No. 926,123; June 29; Sp. p. 6364; Gaz. vol. 143; p. 1130.  
Mosier, F. C., Pittston, Pa. Fruit-gatherer. No. 915,462; Mar. 16; Sp. p. 3721; Gaz. vol. 140; p. 646.  
Moskowitz, M., assignor to United States Light and Heating Company, New York, N. Y. Electric regulator. No. 918,578; Apr. 20; Sp. p. 3300; Gaz. vol. 141; p. 600.  
Mosler Safe Company. (See Bartels, C., assignor.)  
Mosley, H., Waterford, N. Y. Roping-spool. No. 920,611; May 4; Sp. p. 1047; Gaz. vol. 142; p. 170.  
Mosley, J. B., et al. (See Bullard, R. G., assignor.)  
Moss, C. E., Boston, Mass. Apparatus for drying sheet material. No. 941,721; Nov. 30; Sp. p. 7204; Gaz. vol. 148; p. 1214.  
Moss, F. (See Pepling, M., assignor.)  
Moss, F., New York, N. Y. Cop-envelope. No. 924,091; June 8; Sp. p. 2138; Gaz. vol. 143; p. 357.  
Moss, F. J., Conneaut Lake, Pa. Acetylene-gas generator. No. 939,614; Nov. 9; Sp. p. 2586; Gaz. vol. 148; p. 425.  
Moss, H. C. (See Elliott and Moss.)  
Moss, I., Boston, Mass. Antifriction-bearing. No. 939,060; Nov. 2; Sp. p. 1304; Gaz. vol. 148; p. 211.  
Moss, S. A., Lynn, Mass., assignor to General Electric Company. Bucket for elastic-fluid turbines. No. 910,408; Jan. 19; Sp. p. 4046; Gaz. vol. 138; p. 725.  
Mossberg, F., Attleboro, Mass., assignor to Frank Mossberg Company. Razor-stropping device. No. 917,102; Apr. 6; Sp. p. 383; Gaz. vol. 141; p. 52.  
Mossop, C. E. (See Mossop, G. I. and C. E.)  
Mossop, G. I. and C. E., assignors of one-third to W. F. Mossop, Philadelphia, Pa. Cake-coating machinery. No. 927,576; July 13; Sp. p. 1780; Gaz. vol. 144; p. 319.  
Mossop, W. F. (See Mossop, G. I. and C. E., assignors.)  
Mossman, C., and J. H. Grant, Hobe Sound, Fla. Building-block. No. 916,756; Mar. 30; Sp. p. 6263; Gaz. vol. 140; p. 1120.  
Mosteller, D. H., assignor to Mosteller Manufacturing Company, Chicago, Ill. Ice-cream scraper. No. 916,353; Mar. 23; Sp. p. 5455; Gaz. vol. 140; p. 968.

*Alphabetical list of patentees—Continued.*

- Mosteller, D. H., assignor to Mosteller Manufacturing Company, Chicago, Ill. Accurate-aim flash-sight. No. 933,095; Sept. 7; Sp. p. 123; Gaz. vol. 146; p. 21.
- Mosteller, D. H., assignor to Mosteller Manufacturing Company, Chicago, Ill. Fruit cutter and squeezer. No. 939,615; Nov. 9; Sp. p. 2589; Gaz. vol. 148; p. 425.
- Mosteller Manufacturing Company. (See Mosteller, D. H., assignor.)
- Mote, H. and L., Edmonton, London, England. Extension-ladder. No. 925,822; June 22; Sp. p. 5742; Gaz. vol. 143; p. 994.
- Mote, L. (See Mote, H. and L.)
- Motherwell, D. M., Chicago, Ill., assignor to Whitman & Barnes Mfg. Co., Akron, Ohio. Hay-carrier. No. 924,811; June 15; Sp. p. 3690; Gaz. vol. 143; p. 632.
- Motsch, A. F., St. Louis, Mo. Suspenders. No. 911,743; Feb. 9; Sp. p. 1424; Gaz. vol. 139; p. 265.
- Motsinger Device Mfg. Co. (See Motsinger, H. N., assignor.)
- Motsinger, H. N., assignor to Motsinger Device Mfg. Co., Pendleton, Ind. Switch. No. 937,709; Oct. 19; Sp. p. 4395; Gaz. vol. 147; p. 746.
- Mott, A. C., Jr., assignor to Abram Cox Stove Company, Philadelphia, Pa. Combined gas and coal heating-stove. No. 926,585; June 29; Sp. p. 7247; Gaz. vol. 143; p. 1281.
- Mott, F. M., Douglas, assignor of one-half to Roy & Titcomb, Inc., Nogales, Ariz. Ter. Ore-separator. No. 918,461; Apr. 13; Sp. p. 3038; Gaz. vol. 141; p. 534.
- Motter, B. W., *et al.* (See Cox, W. H., assignor.)
- Mottlau, A. J. (See Monrath and Mottlau.)
- Mottlau, A. J., New York, N. Y., assignor to Press Feeder Company. Printing-press. No. 941,162; Nov. 23; Sp. p. 5994; Gaz. vol. 148; p. 1008.
- Motton, T., Toronto, Ontario, Canada. System for propelling vessels. No. 927,996; July 13; Sp. p. 2685; Gaz. vol. 144; p. 458.
- Motz, C., Akron, Ohio. Elastic vehicle-tire. No. 925,937; June 22; Sp. p. 5973; Gaz. vol. 143; p. 1031.
- Motz, C. A., Akron, Ohio. Elastic vehicle-tire. No. 926,012; June 22; Sp. p. 6109; Gaz. vol. 143; p. 1056.
- Motz, F. J., New York, N. Y. Box. No. 929,156; July 27; Sp. p. 5080; Gaz. vol. 144; p. 902.
- Moutat, T. G., Bratenahl, Ohio. Pressure-regulating apparatus. No. 937,686; Oct. 19; Sp. p. 4333; Gaz. vol. 147; p. 738.
- Moukous, C. (See Machette and Moukous.)
- Moulden, H. F., Guelph, Ontario, Canada. Sad-iron holder. No. 935,123; Sept. 28; Sp. p. 4332; Gaz. vol. 146; p. 773.
- Moulie, W. (See Crafn, W., assignor.)
- Moulthrop, L. H., assignor to Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Spring-hinge for electrical and other devices. No. 927,373; July 6; Sp. p. 1340; Gaz. vol. 144; p. 223.
- Moulthrop, L. H., assignor to Perkins Electric Switch Mfg. Company, Bridgeport, Conn. Switch. No. 918,353; Apr. 13; Sp. p. 2822; Gaz. vol. 141; p. 499.
- Moulthrop, L. H., assignor to Perkins Electric Switch Mfg. Company, Bridgeport, Conn. Push-button electric switch. No. 932,883; Aug. 31; Sp. p. 6875; Gaz. vol. 145; p. 1180.
- Moulthrop, L. H., assignor to Perkins Electric Switch Mfg. Company, Bridgeport, Conn. Switch. No. 940,645; Nov. 16; Sp. p. 4873; Gaz. vol. 148; p. 811.
- Moulton, E. E., Cleveland, Ohio. Safety device and elevator. No. 931,211; Aug. 17; Sp. p. 3358; Gaz. vol. 145; p. 583.
- Moulton, I. C., assignor, by mesne assignments, to Simplex Self-Hoisting Machine Company, Boston, Mass. Hoisting appliance. No. 941,722; Nov. 30; Sp. p. 7205; Gaz. vol. 148; p. 1215.
- Moulton, L. V. (See Chamberlin and Moulton.)
- Moulton, N., *et al.* (See Whonn, S. W., assignor.)
- Moulton, O. E., Dover, N. H. Fireproof door. No. 911,836; Feb. 9; Sp. p. 1586; Gaz. vol. 139; p. 294.
- Moulton, O. E., Dover, N. H., assignor to New England Fuel Company, Kittery, Pa. Peat-cutting machine. No. 928,995; July 27; Sp. p. 4742; Gaz. vol. 144; p. 850.
- Moulton, R. J., Minneapolis, Minn. Non-reversing stop. No. 925,715; June 22; Sp. p. 5491; Gaz. vol. 143; p. 958.
- Mound City Duck & Rubber Company. (See Clarkson, A. R., assignor.)
- Mount Lyell Mining and Railway Company Limited. (See Dean, A. L., assignor.)
- Mount, W. D., assignor to Mathieson Alkali Works, Saltville, Va. Apparatus for determining density. No. 923,560; June 1; Sp. p. 994; Gaz. vol. 143; p. 153.
- Mount, W. D., assignor to Mathieson Alkali Works, Saltville, Va. Automatic drain for compressors. No. 925,438; June 15; Sp. p. 4911; Gaz. vol. 143; p. 838.
- Mount, W. H. (See Carrigan, H. J., assignor.)
- Mouns, C. L., Parkersburg, W. Va. Wire-rope clamp. No. 944,141; Dec. 21; Sp. p. 4531; Gaz. vol. 149; p. 778.
- Mowat, O. M., McKeesport, assignor to National Tube Company, Pittsburg, Pa. Recessing-machine. No. 932,407; Aug. 24; Sp. p. 5856; Gaz. vol. 145; p. 1000.
- Mowbray, C. C., and W. F. Geist, Chicago, Ill. Coffee-percolator. No. 943,036; Dec. 14; Sp. p. 2176; Gaz. vol. 149; p. 372.
- Mowell, A., Paterson, N. J. Automatic relief-valve for steam-heating systems. No. 933,777; Sept. 14; Sp. p. 1664; Gaz. vol. 146; p. 275.
- Mower, E. B., assignor to Automatic Carbonator Co., Minneapolis, Minn. Apparatus for carbonating and dispensing beer and other liquids. No. 932,048; Aug. 24; Sp. p. 5167; Gaz. vol. 145; p. 881.
- Mower, F. G., assignor to Goodell Company, Antrim, N. H. Fruit-parer. No. 923,561; June 1; Sp. p. 996; Gaz. vol. 143; p. 153.
- Mower, H. W., Newark, N. J. Expansion-bolt. No. 927,064; July 6; Sp. p. 773; Gaz. vol. 144; p. 123.
- Mower, T., *et al.* (See Mower, T., assignor.)
- Mower, T., assignor to T. Mower and C. Williams, Chicago, Ill. Cooking vessel. No. 944,244; Dec. 21; Sp. p. 4728; Gaz. vol. 149; p. 810.
- Mowery, N., Wilkes-Barre, Pa. Coal-separator. No. 936,015; Oct. 5; Sp. p. 877; Gaz. vol. 147; p. 132.
- Mowinkel, J. E., Kansas City, Mo., assignor to Swift and Company, Chicago, Ill. Device for hanging meat. No. 928,530; July 20; Sp. p. 3808; Gaz. vol. 144; p. 667.
- Mowrey, A. C., Portland, Oreg. Drop-stair fire-escape. No. 937,710; Oct. 19; Sp. p. 4397; Gaz. vol. 147; p. 747.
- Mowrey, H. A., Valley Falls, Kans. Windmill-oiler. No. 927,669; July 13; Sp. p. 2019; Gaz. vol. 144; p. 351.
- Mowry, A. L., St. John, New Brunswick, assignor to H. R. McLellan, St. John, Canada. Machine for slotting nuts. No. 910,941; Jan. 26; Sp. p. 5113; Gaz. vol. 138; p. 922.
- Mowry, A. L., assignor to H. R. McLellan, St. John, New Brunswick, Canada. Machine for manufacturing grooved pins, &c. No. 939,061; Nov. 2; Sp. p. 1306; Gaz. vol. 148; p. 211.
- Mowry, E. S., assignor to Wilcox, Crittenden and Company, Middletown, Conn. Metal-coating small metal articles. No. 933,324; Sept. 7; Sp. p. 657; Gaz. vol. 146; p. 102.
- Moxham, E., Wilmington, Del. Apparatus for brewery pitching-machines. No. 925,126; June 15; Sp. p. 4330; Gaz. vol. 143; p. 738.
- Moxon, W. J., and T. A. Paterson, Kirkburton, near Huddersfield, England. Dobby of looms for weaving. No. 908,687; Jan. 5; Sp. p. 544; Gaz. vol. 138; p. 85.
- Moya, H., assignor to Imperial Typewriter Company, Limited, Leicester, England. Type-writer of the type-bar class. No. 921,269; May 11; Sp. p. 2393; Gaz. vol. 142; p. 420.
- Moye, J. E., New York, N. Y. Bag. No. 935,317; Sept. 28; Sp. p. 4713; Gaz. vol. 146; p. 836.
- Moyer, D. B., Detroit, Mich. Electrical plating-rack. No. 915,786; Mar. 23; Sp. p. 4409; Gaz. vol. 140; p. 782.
- Moyer, F. P., Utica, N. Y. Alarm apparatus. No. 943,440; Dec. 14; Sp. p. 3012; Gaz. vol. 149; p. 508.
- Moyer, H. A. (See Kavle, O. C., assignor.)
- Moyer, H. A. (See Latta, E. G., assignor.)
- Moyer, H. A., *et al.* (See Kavle, O. C., assignor.)
- Moyer, J. L., Stratford, Pa. Relief-valve mechanism. No. 921,867; May 18; Sp. p. 3668; Gaz. vol. 142; p. 646.
- Moyer, J. T., assignor of one-half to C. J. Barr, Milford Square, Pa. Rule-clamp. No. 916,473; Mar. 30; Sp. p. 5725; Gaz. vol. 140; p. 1033.
- Moyer, M., Goshen, Ind. Roof-edging. No. 910,080; Jan. 19; Sp. p. 3319; Gaz. vol. 138; p. 611.
- Moyer, M. C. (See Walstead and Moe, assignors.)
- Moylan, A. M., Century, Fla. Pen and pencil holder. No. 937,087; Oct. 19; Sp. p. 3081; Gaz. vol. 147; p. 541.
- Moylan, A. M., Century, Fla. Tie and rail-fastener. No. 941,937; Nov. 30; Sp. p. 7663; Gaz. vol. 148; p. 1291.
- Moyon, A., Los Angeles, Cal. Railway or other ticket. No. 936,925; Oct. 12; Sp. p. 2750; Gaz. vol. 147; p. 460.
- Mozley, I., Maypearl, Tex. Washboiler. No. 936,926; Oct. 12; Sp. p. 2752; Gaz. vol. 147; p. 460.
- Mracek, J., Chicago, Ill. Hot-water heater. No. 920,982; May 11; Sp. p. 1808; Gaz. vol. 142; p. 321.
- Muchler, A. (See Muchler, M., assignor.)
- Muchler, M., assignor to A. Muchler, New York, N. Y. Quoin. No. 939,950; Nov. 9; Sp. p. 3296; Gaz. vol. 148; p. 544.
- Muck, W., Dickson City, Pa. Self-marking try-square. No. 911,898; Feb. 9; Sp. p. 1702; Gaz. vol. 139; p. 315.
- Muckie, J., Kansas City, Mo. Air-siph. No. 932,884; Aug. 31; Sp. p. 6876; Gaz. vol. 145; p. 1181.
- Mucklé, J. S., Philadelphia, Pa. Elevator. No. 938,268; Oct. 26; Sp. p. 5584; Gaz. vol. 147; p. 954.
- Mudd, J. A., Chicago, Ill. Check-stub binder. No. 924,263; June 8; Sp. p. 2559; Gaz. vol. 143; p. 416.
- Mudd, J. A., Chicago, Ill. Spring clamping device. No. 932,163; Aug. 24; Sp. p. 5392; Gaz. vol. 145; p. 919.
- Mudge, L. I., Salt Lake City, Utah. Horse-collar fastener. No. 920,983; May 11; Sp. p. 1810; Gaz. vol. 142; p. 321.



*Alphabetical list of patentees—Continued.*

- Muecke, H. A. (See Boemper, W. J., assignor.)  
 Muehleisen, C. (See Albrecht and Muehleisen.)  
 Muehleisen, T., Los Angeles, Cal. Hydrocarbon-burner. No. 922,018; May 18; Sp. p. 3976; Gaz. vol. 142; p. 695.  
 Muehlhausen, H., Jr., and J. Thomsen, Chicago, Ill. Shock-absorber. No. 924,179; June 8; Sp. p. 2367; Gaz. vol. 143; p. 387.  
 Muehlmann, A., Newport, Ky. Engraver's block. No. 911,667; Feb. 9; Sp. p. 1284; Gaz. vol. 139; p. 240.  
 Mueller, A. E., Chicago, Ill. Motor-driven aeroplane. No. 937,381; Oct. 19; Sp. p. 3712; Gaz. vol. 147; p. 737.  
 Mueller Brothers Art and Manufacturing Company. (See Mueller, J., assignor.)  
 Mueller, C. L., Wapakoneta, Ohio. Detachable-jaw tool. No. 929,868; Aug. 3; Sp. p. 519; Gaz. vol. 145; p. 83.  
 Mueller, F. (See Hubener and Mueller.)  
 Mueller, F., Irvington, N. J., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Coil-winding machine. No. 933,778; Sept. 14; Sp. p. 1666; Gaz. vol. 146; p. 275.  
 Mueller, F., and G. W. Winn, assignors to Standard Stopper Company, New York, N. Y. Capping-machine. No. 915,992; Mar. 23; Sp. p. 4797; Gaz. vol. 140; p. 848.  
 Mueller, G., Salt Lake City, Utah. Baking-pan. No. 943,093; Dec. 14; Sp. p. 2307; Gaz. vol. 149; p. 391.  
 Mueller, G. H. (See Mains, G. A., assignor.)  
 Mueller, H., St. Louis, Mo. Aeroplane. No. 914,969; Mar. 9; Sp. p. 2721; Gaz. vol. 140; p. 458.  
 Mueller, H., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Pipe connection. No. 931,950; Aug. 24; Sp. p. 4944; Gaz. vol. 145; p. 848.  
 Mueller, H., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Liquid shut-off. No. 934,620; Sept. 21; Sp. p. 3325; Gaz. vol. 146; p. 578.  
 Mueller, H., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Pipe-coupling. No. 934,687; Sept. 21; Sp. p. 3453; Gaz. vol. 146; p. 601.  
 Mueller, H., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Wash-tray-bib. No. 936,278; Oct. 5; Sp. p. 1392; Gaz. vol. 147; p. 215.  
 Mueller, H., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Washer-gasket. No. 936,554; Oct. 12; Sp. p. 2017; Gaz. vol. 147; p. 333.  
 Mueller, H., and A. Schuermann, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Self-closing liquid shut-off. No. 917,639; Apr. 6; Sp. p. 1316; Gaz. vol. 141; p. 232.  
 Mueller, H., and A. C. Schuermann, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Service-box lid. No. 923,066; May 25; Sp. p. 6133; Gaz. vol. 142; p. 1064.  
 Mueller, H. and P., and A. C. Schuermann, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Service-box lid. No. 916,354; Mar. 23; Sp. p. 5456; Gaz. vol. 140; p. 968.  
 Mueller, J., Elmhurst, Ill. Mold construction for concrete walls. No. 936,798; Oct. 12; Sp. p. 2507; Gaz. vol. 147; p. 417.  
 Mueller, J., assignor to Mueller Brothers Art and Manufacturing Company, Chicago, Ill. Machine for making picture-frames. No. 941,331; Nov. 23; Sp. p. 6349; Gaz. vol. 148; p. 1062.  
 Mueller, J. B. (See Henning, J. B., assignor.)  
 Mueller, J. W., Millstadt, Ill. Shock-loader. No. 910,143; Jan. 19; Sp. p. 3441; Gaz. vol. 138; p. 630.  
 Mueller, L., Jr. (See Gostler and Mueller.)  
 Mueller, L., Owosso, Mich. Truss-support for rail-joints. No. 919,617; Apr. 27; Sp. p. 5712; Gaz. vol. 141; p. 982.  
 Mueller, L., Owosso, Mich. Truss-support for rail-joints. No. 931,459; Aug. 17; Sp. p. 3878; Gaz. vol. 145; p. 669.  
 Mueller, M. A., Brooklyn, N. Y. Life-saving apparatus. No. 942,009; Nov. 30; Sp. p. 7798; Gaz. vol. 148; p. 1313.  
 Mueller Manufacturing Company. (See Mueller, H., assignor.)  
 Mueller, O. N., assignor of one-half to A. Vonnegut, Indianapolis, Ind. Building construction. No. 936,342; Oct. 12; Sp. p. 1539; Gaz. vol. 147; p. 264.  
 Mueller, P. (See Mueller and Schuermann.)  
 Mueller, P., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Lavatory-fitting. No. 942,385; Dec. 7; Sp. p. 734; Gaz. vol. 149; p. 120.  
 Mueller, P., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Lavatory-fitting. No. 942,386; Dec. 7; Sp. p. 736; Gaz. vol. 149; p. 120.  
 Mueller, P., and A. C. Schuermann, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Cock. No. 934,688; Sept. 21; Sp. p. 3455; Gaz. vol. 146; p. 602.  
 Mueller, T. M., Dalton, Mass. Magneto-electric machine. No. 943,697; Dec. 21; Sp. p. 3598; Gaz. vol. 149; p. 626.  
 Mueller, T. M., and A. Jacob, assignors to Pittsfield Spark Coil Company, Dalton, Mass. Combined distributor and timer device. No. 928,209; July 13; Sp. p. 3115; Gaz. vol. 144; p. 530.  
 Muenchinger, P. G., Newport, R. I., assignor of one-half to E. F. Shiek, Brookline, Mass. Pneumatic tire. No. 942,734; Dec. 7; Sp. p. 1452; Gaz. vol. 149; p. 238.  
 Muenzenmaier, G. A., Lebanon, assignor to Peters Cartridge Company, Cincinnati, Ohio. Shell. No. 932,562; Aug. 31; Sp. p. 6200; Gaz. vol. 145; p. 1075.  
 Mueser, W., New York, N. Y. Concrete-steel construction. No. 940,399; Nov. 16; Sp. p. 4362; Gaz. vol. 148; p. 730.  
 Mug, E. T., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Brush for dynamo-electric machines. No. 908,483; Jan. 5; Sp. p. 100; Gaz. vol. 138; p. 19.  
 Mug, E. T., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 908,484; Jan. 5; Sp. p. 101; Gaz. vol. 138; p. 19.  
 Mugdan, M. (See Askenasy and Mugdan.)  
 Mugdan, M., assignor to Consortium für Elektrochemische Industrie G. m. b. H., Nuremberg, Germany. Preparing organic compounds containing the acetyl group. No. 944,372; Dec. 28; Sp. p. 5018; Gaz. vol. 149; p. 883.  
 Muggli, W. T., Hassloch, Germany. Machine for threading tobacco-leaves. No. 918,075; Apr. 13; Sp. p. 2268; Gaz. vol. 141; p. 407.  
 Muhlenberg, C. E., Dayton, Ohio. Recording-skid. No. 917,743; Apr. 6; Sp. p. 1527; Gaz. vol. 141; p. 266.  
 Muhlfeld, J. E., Baltimore, Md. Railway tie-plate. No. 909,443; Jan. 12; Sp. p. 2041; Gaz. vol. 138; p. 563.  
 Muir, T., Lind, Wash. Brake. No. 923,987; June 8; Sp. p. 1961; Gaz. vol. 143; p. 325.  
 Muirhead, A., Bradford, Mass. Beating-engine. No. 909,642; Jan. 12; Sp. p. 2435; Gaz. vol. 138; p. 432.  
 Mulcahy, R. E., Jersey City, N. J. Chimney-top. No. 916,474; Mar. 30; Sp. p. 5727; Gaz. vol. 140; p. 1033.  
 Muldoon, J. W., New York, N. Y. Column, girder, and the like. No. 914,861; Mar. 9; Sp. p. 2540; Gaz. vol. 140; p. 424.  
 Mulford, L. W., et al. (See Haile, L. T., assignor.)  
 Mulherin, J. A., St. Louis, Mo. Device for removing obstacles from drain-pipes. No. 937,458; Oct. 19; Sp. p. 3902; Gaz. vol. 147; p. 663.  
 Mulholland Company. (See Mulholland, R., assignor.)  
 Mulholland, M., Cleveland, Ohio. Hatch-fastener for vessels. No. 929,779; Aug. 3; Sp. p. 315; Gaz. vol. 145; p. 53.  
 Mulholland, O. B., administrator. (See Mulholland, R.)  
 Mulholland, R., deceased; O. B. Mulholland, administrator, assignor to Mulholland Company, Dunkirk, N. Y. Vehicle-spring. No. 913,668; Feb. 23; Sp. p. 5485; Gaz. vol. 139; p. 966.  
 Mulkey, M. H. (See Gilmore and Mulkey.)  
 Mulkey, M. H., Seattle, Wash. Attachment for bottle-stoppering machines. No. 908,688; Jan. 5; Sp. p. 546; Gaz. vol. 138; p. 85.  
 Mull, T., Old Fort, Ohio. Guide-bracket for edgewise-movable doors. No. 922,612; May 25; Sp. p. 5182; Gaz. vol. 142; p. 917.  
 Mull, W. D. (See Hower, Mull, and Cooper.)  
 Mullaney, T. F., New York, N. Y. Safety locking device for fire-pails and other articles. No. 920,368; May 4; Sp. p. 564; Gaz. vol. 142; p. 90.  
 Mullen, C. M., Baker City, Oreg. Ore-separator. No. 923,988; June 8; Sp. p. 1963; Gaz. vol. 143; p. 326.  
 Mullen, C. R. (See Chubb and Mullen.)  
 Mullen, J. E., New Hampton, Iowa. Gate. No. 940,044; Nov. 16; Sp. p. 3537; Gaz. vol. 148; p. 605.  
 Mullen, T. J., and T. F. Brennan, New Brighton, N. Y. Sand-box. No. 926,586; June 29; Sp. p. 7248; Gaz. vol. 143; p. 1281.  
 Müller, A., Domäne Ruhleben, near Spandau, Germany. Target. No. 926,965; July 6; Sp. p. 520; Gaz. vol. 144; p. 85.  
 Müller, A., Fürstenwalde-on-the-Spree, assignor to G. P. Drossbach & Co., Freiberg, Germany. Manufacturing incandescent mantles. No. 927,374; July 6; Sp. p. 1341; Gaz. vol. 144; p. 223.  
 Müller, B., Wittgensdorf, near Chemnitz, Germany. Centrifugal-machine buffer device. No. 928,996; July 27; Sp. p. 4746; Gaz. vol. 144; p. 850.  
 Müller, B., Chicago, Ill. Adjustable scaffold. No. 944,373; Dec. 28; Sp. p. 5019; Gaz. vol. 149; p. 883.  
 Müller, C., Dresden, Germany. Filtering device. No. 932,408; Aug. 24; Sp. p. 5859; Gaz. vol. 145; p. 1000.  
 Müller, C. H. (See Müller, J., Jr., assignor.)  
 Müller, C. O., assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Azo dye and makingsame. No. 941,068; Nov. 23; Sp. p. 5829; Gaz. vol. 148; p. 984.  
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- Müller, E. F., Leipzig-Reudnitz, Germany. Machine for the manufacture of paper bags. No. 940,183; Nov. 16; Sp. p. 3849; Gaz. vol. 148; p. 654.
- Müller, F., Basel, Switzerland. Dry smoking-pipe. No. 914,498; Mar. 9; Sp. p. 1774; Gaz. vol. 140; p. 304.
- Müller, F., Esslingen, Germany. Centrifugal grain-cleaner. No. 916,757; Mar. 30; Sp. p. 6264; Gaz. vol. 140; p. 1121.
- Müller, F., Darmstadt, Germany. Gas-producer. No. 931,460; Aug. 17; Sp. p. 3880; Gaz. vol. 145; p. 669.
- Müller, F., Darmstadt, Germany. Gas-producer. No. 937,687; Oct. 19; Sp. p. 4336; Gaz. vol. 147; p. 739.
- Müller, F. H., Lansdale, Pa. Automatic damper-operating device. No. 944,808; Dec. 28; Sp. p. 5995; Gaz. vol. 149; p. 1032.
- Müller, F. J., Frankfort-on-the-Main, Germany. Type-writer. No. 921,270; May 11; Sp. p. 2398; Gaz. vol. 142; p. 420.
- Müller, F. W. E., Chicago, Ill. Hair-tonic. No. 939,431; Nov. 9; Sp. p. 2195; Gaz. vol. 148; p. 365.
- Müller, G., Schwäbisch-Gmünd, Germany. Self-closing water-cock with device to prevent bursting by frost. No. 937,629; Oct. 19; Sp. p. 4233; Gaz. vol. 147; p. 721.
- Müller, H., Leipzig, Germany. Telpherage system. No. 941,938; Nov. 30; Sp. p. 7665; Gaz. vol. 148; p. 1291.
- Müller, J., Barmen, Germany. Knife-sharpening machine. No. 911,744; Feb. 9; Sp. p. 1425; Gaz. vol. 139; p. 265.
- Müller, J., Jr., assignor to C. H. Müller, New York, N. Y. Rotary barrel-sprinkling machine. No. 911,320; Feb. 2; Sp. p. 589; Gaz. vol. 139; p. 100.
- Muller, J. P. (See Taylor and Muller.)
- Müller, O., Leipzig-Neuschönfeld, assignor to G. Hess, Pirna-on-the-Elbe, Germany. Making albuminous bread. No. 911,745; Feb. 9; Sp. p. 1426; Gaz. vol. 139; p. 265.
- Müller, O., Cologne, assignor to Rheinische Kunstseide-Fabrik, Aktiengesellschaft, Cologne-on-the-Rhine, Germany. Cellulose substitute. No. 930,874; Aug. 10; Sp. p. 2570; Gaz. vol. 145; p. 443.
- Müller, O., assignor to Rheinische Kunstseide-Fabrik Aktiengesellschaft, Cologne, Germany. Colored cellulose article. No. 931,634; Aug. 17; Sp. p. 4202; Gaz. vol. 145; p. 721.
- Muller, O. J. (See Kaplan, L., assignor.)
- Müller, O. J., New York, N. Y. Holder and protector for musical-instrument strings. No. 939,734; Nov. 9; Sp. p. 2841; Gaz. vol. 148; p. 469.
- Müller, O. M., Gelsenkirchen-Schalke, Germany. Locking device for miners' lamps. No. 921,868; May 18; Sp. p. 3669; Gaz. vol. 142; p. 646.
- Müller, O. M., Gelsenkirchen, Germany. Miner's lamp. No. 935,219; Sept. 28; Sp. p. 4514; Gaz. vol. 146; p. 803.
- Muller, T., Brooklyn, N. Y. Device for the protection of registering mechanisms. No. 922,019; May 18; Sp. p. 3978; Gaz. vol. 142; p. 696.
- Mulligan, A., Pittsburg, Pa. Window-cleaner for cars. No. 909,010; Jan. 5; Sp. p. 1188; Gaz. vol. 138; p. 189.
- Mullikin, M. J., Mena, Ark. Combined table, chair, and ice-chest. No. 929,689; Aug. 3; Sp. p. 99; Gaz. vol. 145; p. 18.
- Mullin, C., Conway, N. D. Spring-clevis. No. 944,899; Dec. 28; Sp. p. 6176; Gaz. vol. 149; p. 1063.
- Mullinix, L. M. (See Flanagan and Mullinix.)
- Mullins, L. B., L'Argent, La. Fish-stringer. No. 918,462; Apr. 13; Sp. p. 3040; Gaz. vol. 141; p. 534.
- Mullins, W. H., Republican Grove, Va. Envelop. No. 923,873; June 8; Sp. p. 1737; Gaz. vol. 143; p. 289.
- Mulloy, B. P., New Albany, Ind. Measuring and weighing machine. No. 924,570; June 8; Sp. p. 3159; Gaz. vol. 143; p. 517.
- Mullock, P., Leadville, Colo. Hook-and-eye fastener. No. 944,101; Dec. 21; Sp. p. 4436; Gaz. vol. 149; p. 765.
- Mulot, O. L., Brooklyn, N. Y. Portable battery. No. 942,401; Dec. 7; Sp. p. 773; Gaz. vol. 149; p. 125.
- Mulrooney, P., assignor of one-half to J. H. O'Neill, Denver, Colo. Sash-fastener. No. 910,709; Jan. 26; Sp. p. 4662; Gaz. vol. 138; p. 847.
- Mulroyan, T. E. (See Sprague and Mulroyan.)
- Multi-Seal Manufacturing Company. (See Olsson, H. A., assignor.)
- Multiplex Display Fixture Company. (See Feldmann, L., Jr., assignor.)
- Multiplex Faucet Company. (See Fitzgibbon and Travis, assignors.)
- Multiplex Faucet Company. (See Garman and Travis, assignors.)
- Multiplex Tube and Tire Company. (See Magowan, F. A., assignor.)
- Mulvaney, G. (See Quinlan and Mulvaney.)
- Mulzer, G. J., Powell, Ohio. Crate. No. 922,020; May 18; Sp. p. 3980; Gaz. vol. 142; p. 696.
- Mumford, C. J., Amsterdam, N. Y. Knitting-machine. No. 944,968; Dec. 28; Sp. p. 6315; Gaz. vol. 149; p. 1085.
- Mumford, E. H., Philadelphia, Pa. Pattern-carrier. No. 932,563; Aug. 31; Sp. p. 6202; Gaz. vol. 145; p. 1075.
- Mumford, E. M., *et al.* (See Mumford, J. A., assignor.)
- Mumford, H. E., *et al.* (See Mumford, J. A., assignor.)
- Mumford, H. T., New York, N. Y., assignor to Mumford Manufacturing and Supply Company. Belt-lacing tool and square. No. 940,400; Nov. 16; Sp. p. 4364; Gaz. vol. 148; p. 730.
- Mumford, H. T., New York, N. Y., assignor to Mumford Manufacturing and Supply Company. Belt-lacing tool. No. 940,401; Nov. 16; Sp. p. 4366; Gaz. vol. 148; p. 730.
- Mumford, J. A., Roslyn, assignor to J. B. King & Co., New York, N. Y., E. M. Mumford, Philadelphia, Pa., and H. E. Mumford, Hanstport, Nova Scotia, Canada. Sand-drier. No. 915,787; Mar. 23; Sp. p. 4410; Gaz. vol. 140; p. 783.
- Mumford, J. D. (See Welch and Mumford.)
- Mumford Manufacturing and Supply Company. (See Mumford, H. T., assignor.)
- Mumma, S. P. (See Gordon and Mumma.)
- Mumma, T. H., Dunnigan, Cal. Wrench. No. 915,463; Mar. 16; Sp. p. 3722; Gaz. vol. 140; p. 646.
- Mummert, G. L. (See Wilkinson and Mummert.)
- Mummery, E. G., Detroit, Mich. Hydrocarbon-burner and water-feed therefor. No. 932,803; Aug. 31; Sp. p. 6733; Gaz. vol. 145; p. 1155.
- Münch, E., assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Making thioindigo leuco compounds. No. 910,839; Jan. 26; Sp. p. 4927; Gaz. vol. 138; p. 889.
- Münch, E., assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Thiosalicylic compound and making same. No. 943,560; Dec. 14; Sp. p. 3268; Gaz. vol. 149; p. 551.
- Münch, E., assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Thiosalicylic compound and making same. No. 943,561; Dec. 14; Sp. p. 3270; Gaz. vol. 149; p. 551.
- Muncil, B. A. (See Alexander and Muncil.)
- Mundale, E. J., Frost, Minn. Excavating-machine. No. 923,290; June 1; Sp. p. 412; Gaz. vol. 143; p. 58.
- Mundinger, L. (See Poston, O., assignor.)
- Mundy, A. J., Boston, Mass., assignor to Submarine Signal Company, Waterville, Me. Sound transmitter and receiver. No. 921,141; May 11; Sp. p. 2133; Gaz. vol. 142; p. 375.
- Mundy, C. H., Metuchen, N. J., assignor to F. B. Mundy, trustee, Newtonville, Mass. Apparatus for receiving submarine signals. No. 908,877; Jan. 5; Sp. p. 920; Gaz. vol. 138; p. 146.
- Mundy, F. B. (See Mundy, C. H., assignor.)
- Munford, J. W. (See Butler, W., assignor.)
- Munger, J. B., administratrix. (See Munger, O. D.)
- Munger, O. D., deceased; J. B. Munger, administratrix, Antwerp, Ohio. Carbureter. No. 934,981; Sept. 21; Sp. p. 4036; Gaz. vol. 146; p. 701.
- Munger, V., Ansonia, Conn. Paper-clip. No. 921,271; May 11; Sp. p. 2401; Gaz. vol. 142; p. 420.
- Munk, R. W., assignor of one-third to L. J. De Give and one-third to J. T. Thomason, Atlanta, Ga. Inking device. No. 930,309; Aug. 3; Sp. p. 1384; Gaz. vol. 145; p. 229.
- Munk, R. W., assignor of one-third to J. L. De Give and one-third to J. T. Thomason, Atlanta, Ga. Stamping-machine. No. 944,742; Dec. 28; Sp. p. 5847; Gaz. vol. 149; p. 1010.
- Munn, D., Chicago, Ill. Combination communion-cup, envelop, and pencil-holder. No. 929,461; July 27; Sp. p. 5716; Gaz. vol. 144; p. 1003.
- Munn, N. D., Dresden, Ontario, Canada. Steam-generating blacksmith's forge. No. 931,951; Aug. 24; Sp. p. 4946; Gaz. vol. 145; p. 848.
- Munn, O. D., and J. K. Brachvogel, New York, N. Y. Speed-gage. No. 932,885; Aug. 31; Sp. p. 6881; Gaz. vol. 145; p. 1182.
- Munn, R. W., Troy, N. Y. Food-warmer. No. 927,997; July 13; Sp. p. 2689; Gaz. vol. 144; p. 458.
- Munn, W. B., Selma, Ala. Side rail for beds. No. 921,869; May 18; Sp. p. 3670; Gaz. vol. 142; p. 647.
- Munro, W. H., Sault Ste. Marie, Ontario, Canada. Wrench. No. 933,096; Sept. 7; Sp. p. 124; Gaz. vol. 146; p. 21.
- Munsch, E., Newark, N. J. Internal-combustion engine. No. 923,562; June 1; Sp. p. 1001; Gaz. vol. 143; p. 154.
- Munsell, C. G., Sidney, Iowa, assignor of two-thirds to A. W. Hawver, Springfield, Mo. Burglar-alarm. No. 913,669; Feb. 23; Sp. p. 5488; Gaz. vol. 139; p. 966.
- Munsill, J. L., assignor of one-half to J. C. and A. Krohn, Leavenworth, Kans. Tongs. No. 938,499; Nov. 2; Sp. p. 114; Gaz. vol. 148; p. 18.
- Munsing, G. D., Hoboken, N. J. Speed-changing mechanism. No. 937,320; Oct. 19; Sp. p. 3752; Gaz. vol. 147; p. 617.
- Munsing, G. D., Hoboken, N. J. Speed-changing mechanism. No. 937,321; Oct. 19; Sp. p. 3576; Gaz. vol. 147; p. 618.
- Munson, A. B., Stockton, Cal. Scraper. No. 926,997; July 6; Sp. p. 597; Gaz. vol. 144; p. 98.
- Munson, A. F., assignor of one-half to J. J. Hayes, Chicago, Ill. Machine for bottling and syringing aerated beverages. No. 934,454; Sept. 21; Sp. p. 3001; Gaz. vol. 146; p. 523.



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 Munson, R. L., Seattle, Wash. Controller for electric motors. No. 912,871; Feb. 16; Sp. p. 3829; Gaz. vol. 139; p. 675.  
 Munson, S., Fowler, Colo. Superheater. No. 916,180; Mar. 23; Sp. p. 5143; Gaz. vol. 140; p. 910.  
 Munson, S. R., assignor to Sargent & Company, New Haven, Conn. Food-chopper. No. 912,482; Feb. 16; Sp. p. 3003; Gaz. vol. 139; p. 543.  
 Munson, W. G., Indianapolis Ind. Steam-boiler furnace. No. 931,952; Aug. 24; Sp. p. 4948; Gaz. vol. 145; p. 849.  
 Munster, K., Munich, Germany. Combined picture post-card and fan. No. 922,715; May 25; Sp. p. 5394; Gaz. vol. 142; p. 950.  
 Munster, K., assignor to Firm of Becker & Kolbinger, Munich, Germany. Pictorial post-card. No. 916,475; Mar. 30; Sp. p. 5729; Gaz. vol. 140; p. 1034.  
 Muntzing, A., Stockholm, Sweden. Densimeter. No. 913,420; Feb. 23; Sp. p. 4937; Gaz. vol. 139; p. 883.  
 Muntz, T., Rochester, N. Y. Ruling-machine. No. 918,076; Apr. 13; Sp. p. 2269; Gaz. vol. 141; p. 408.  
 Murch, A. J., St. Louis, Mo. Telescopic clothes-pole. No. 918,579; Apr. 20; Sp. p. 3303; Gaz. vol. 141; p. 600.  
 Murch, J. E., assignor, by mesne assignments, to J. E. Phelan, Lynn, Mass. Gas-cock. No. 916,954; Mar. 30; Sp. p. 6660; Gaz. vol. 140; p. 1187.  
 Murehey, W., Detroit, Mich. Thread-cutting tool. No. 939,735; Nov. 9; Sp. p. 2842; Gaz. vol. 143; p. 469.  
 Murchie, J., Traverse City, Mich. Anchor for stovepipes. No. 943,037; Dec. 14; Sp. p. 2177; Gaz. vol. 149; p. 372.  
 Murchison, M. M., Winston Salem, N. C. Car-seat. No. 923,196; June 1; Sp. p. 157; Gaz. vol. 143; p. 26.  
 Murchison, M. M., Winston Salem, N. C. Car-seat-operating device. No. 923,197; June 1; Sp. p. 160; Gaz. vol. 143; p. 27.  
 Murdoch, D. A., Youngstown, Ohio. Building-scaffold. No. 926,013; June 22; Sp. p. 6110; Gaz. vol. 143; p. 1056.  
 Murdoch, F. J. (See Willett, W. J., assignor.)  
 Murdoch, F. J., assignor to Dwight Lumber Co., Detroit, Mich. Mechanism for manufacturing parquet flooring. No. 921,618; May 11; Sp. p. 3130; Gaz. vol. 142; p. 535.  
 Murdock, C. D., Philadelphia, Pa. Flanging pipes. No. 940,702; Nov. 23; Sp. p. 5008; Gaz. vol. 148; p. 855.  
 Murdock, F. F., Syracuse, N. Y. Speed-changing mechanism for graphophones. No. 927,809; July 13; Sp. p. 2295; Gaz. vol. 144; p. 397.  
 Murdock, F. F., Syracuse, N. Y. Speed-changing mechanism for graphophones. No. 937,459; Oct. 19; Sp. p. 3903; Gaz. vol. 147; p. 664.  
 Murdock, G. S., Detroit, Mich. Brush-making machine. No. 934,560; Sept. 21; Sp. p. 3190; Gaz. vol. 146; p. 557.  
 Murdock, G. S., Detroit, Mich. Brush-making machine. No. 944,142; Dec. 21; Sp. p. 4532; Gaz. vol. 149; p. 778.  
 Murdock & Geb Company. (See Murdock, T. J., assignor.)  
 Murdock, J. C., Brodhead, Wis. Shock-absorber for automobiles. No. 912,483; Feb. 16; Sp. p. 3004; Gaz. vol. 139; p. 543.  
 Murdock, L. S., Madeira, Ohio. Clasp. No. 937,841; Oct. 26; Sp. p. 4675; Gaz. vol. 147; p. 809.  
 Murdock, T. J., assignor to Murdock & Geb Company, Franklin, Mass. Bobbin-holder. No. 914,742; Mar. 9; Sp. p. 2301; Gaz. vol. 140; p. 385.  
 Murdock, W. (See Dennis, Evans, and Murdock.)  
 Murgas, J. (See Kozar, L. O., assignor.)  
 Murgas, J., Wilkes-Barre, Pa. Wireless telegraphy. No. 915,993; Mar. 23; Sp. p. 4901; Gaz. vol. 140; p. 848.  
 Murgas, J., Wilkes-Barre, Pa. Wireless telegraphy. No. 917,103; Apr. 6; Sp. p. 284; Gaz. vol. 141; p. 52.  
 Murgas, J., Wilkes-Barre, Pa. Magnetic-wave detector. No. 917,104; Apr. 6; Sp. p. 287; Gaz. vol. 141; p. 52.  
 Murgas, J., Wilkes-Barre, Pa. Magnetic detector. No. 930,780; Aug. 10; Sp. p. 2375; Gaz. vol. 145; p. 411.  
 Murk, O., Warren, Minn. Thistle-eradiator. No. 944,900; Dec. 28; Sp. p. 6178; Gaz. vol. 149; p. 1064.  
 Murnane, D. J., Kirkwood, Mo. Device for connecting plates of glass together. No. 932,164; Aug. 24; Sp. p. 5393; Gaz. vol. 145; p. 920.  
 Murnane, T. H., assignor of one-fourth to M. J. Regan, Boston, Mass. Base-ball-field marker. No. 925,014; June 15; Sp. p. 4120; Gaz. vol. 143; p. 701.  
 Murphey, F. P., Decatur, Ill. Differential dropper mechanism for corn-planters. No. 936,471; Oct. 12; Sp. p. 1844; Gaz. vol. 147; p. 306.  
 Murphey, F. P., Decatur, Ill. Wire-reel and mounting therefor. No. 939,616; Nov. 9; Sp. p. 2590; Gaz. vol. 148; p. 426.  
 Murphey, F. P., Decatur, Ill. Valve mechanism for corn-planters. No. 943,441; Dec. 14; Sp. p. 3014; Gaz. vol. 149; p. 508.  
 Murphey, F. P., Decatur, Ill. Corn-planter valve mechanism. No. 943,634; Dec. 14; Sp. p. 3469; Gaz. vol. 149; p. 576.  
 Murphy, C. (See Queenan and Murphy.)  
 Murphy, C., Crafton, Pa. Shaft-detacher. No. 913,539; Feb. 23; Sp. p. 5179; Gaz. vol. 139; p. 923.  
 Murphy, E. E., Winchester, Mass., assignor to Puffer Manufacturing Company. Dispensing-faucet. No. 920,612; May 4; Sp. p. 1049; Gaz. vol. 142; p. 170.  
 Murphy, E. J., Brooklyn, N. Y. Battery-discharge regulator. No. 909,813; Jan. 12; Sp. p. 2777; Gaz. vol. 138; p. 489.  
 Murphy, E. J., Glasgow, Scotland, assignor to General Electric Company. Arc-lamp. No. 935,920; Oct. 5; Sp. p. 688; Gaz. vol. 147; p. 100.  
 Murphy, F. M., Jersey City, N. J. Phonograph-horn. No. 915,874; Mar. 23; Sp. p. 4565; Gaz. vol. 140; p. 811.  
 Murphy, G. J., Philadelphia, Pa. Attachment for chandeliers. No. 927,745; July 13; Sp. p. 2162; Gaz. vol. 144; p. 375.  
 Murphy, H. M. P., Pittsburg, Pa. Speed-recording device. No. 920,487; May 4; Sp. p. 786; Gaz. vol. 142; p. 128.  
 Murphy, H. M. P., Pittsburg, assignor of one-fourth to L. H. Bowman, Munhall, and one-eighth to J. M. Flannery, Pittsburg, Pa. Air-brake apparatus. No. 912,317; Feb. 16; Sp. p. 2655; Gaz. vol. 139; p. 489.  
 Murphy, H. M. P., Pittsburg, assignor of one-fourth to L. H. Bowman, Munhall, and one-eighth to J. M. Flannery, Pittsburg, Pa. Air-brake apparatus. No. 912,712; Feb. 16; Sp. p. 3498; Gaz. vol. 139; p. 624.  
 Murphy, H. M. P., Pittsburg, assignor of one-fourth to L. H. Bowman, Munhall, and one-eighth to J. M. Flannery, Pittsburg, Pa. Leak-obviating means for pistons. No. 912,713; Feb. 16; Sp. p. 3508; Gaz. vol. 139; p. 624.  
 Murphy, H. M. P., Pittsburg, assignor of one-fourth to L. H. Bowman, Munhall, and one-eighth to J. M. Flannery, Pittsburg, Pa. Air-brake apparatus. No. 912,714; Feb. 16; Sp. p. 3509; Gaz. vol. 139; p. 625.  
 Murphy, H. M. P., Pittsburg, assignor of one-fourth to L. H. Bowman, Munhall, and one-eighth to J. M. Flannery, Pittsburg, Pa. Air-brake apparatus. No. 912,715; Feb. 16; Sp. p. 3522; Gaz. vol. 139; p. 625.  
 Murphy, H. M. P., Pittsburg, assignor of one-fourth to L. H. Bowman, Munhall, and one-eighth to J. M. Flannery, Pittsburg, Pa. Air-brake apparatus. No. 912,716; Feb. 16; Sp. p. 3530; Gaz. vol. 139; p. 626.  
 Murphy, H. M. P., Pittsburg, assignor of one-fourth to L. H. Bowman, Munhall, and one-eighth to J. M. Flannery, Pittsburg, Pa. Air-brake apparatus. No. 912,717; Feb. 16; Sp. p. 3539; Gaz. vol. 139; p. 626.  
 Murphy, H. M. P., Pittsburg, assignor of one-fourth to L. H. Bowman, Munhall, and one-eighth to J. M. Flannery, Pittsburg, Pa. Air-brake apparatus. No. 912,973; Feb. 16; Sp. p. 4025; Gaz. vol. 139; p. 706.  
 Murphy Iron Works. (See Fortune, J. R., assignor.)  
 Murphy, J. (See Carnahan and Murphy.)  
 Murphy, J. A., Pueblo, Colo. Retort-charging apparatus. No. 916,578; Mar. 30; Sp. p. 5949; Gaz. vol. 140; p. 1067.  
 Murphy, J. B., *et al.* (See Weaver, J. W., assignor.)  
 Murphy, J. J., assignor to Eagle Lock Co., Terryville, Conn. Padlock. No. 928,684; July 20; Sp. p. 4128; Gaz. vol. 144; p. 718.  
 Murphy, J. J., assignor to Eagle Lock Co., Terryville, Conn. Combination-lock. No. 930,079; Aug. 3; Sp. p. 958; Gaz. vol. 145; p. 155.  
 Murphy, J. J., assignor to Eagle Lock Co., Terryville, Conn. Combination-lock. No. 941,028; Nov. 23; Sp. p. 5712; Gaz. vol. 148; p. 963.  
 Murphy, J. J., assignor to Eagle Lock Co., Terryville, Conn. Lock. No. 944,685; Dec. 28; Sp. p. 5709; Gaz. vol. 149; p. 990.  
 Murphy, M. T., Oil City, Pa. Railway-tie. No. 930,214; Aug. 3; Sp. p. 1219; Gaz. vol. 145; p. 200.  
 Murphy, P., Carmel, N. Y. Vegetation-destroying composition. No. 911,255; Feb. 2; Sp. p. 465; Gaz. vol. 139; p. 80.  
 Murphy, P. F., Milwaukee, Wis. Flushing device. No. 916,758; Mar. 30; Sp. p. 6265; Gaz. vol. 140; p. 1121.  
 Murphy, P. F., Milwaukee, Wis. Plumbing-trap. No. 922,312; May 18; Sp. p. 4540; Gaz. vol. 142; p. 789.  
 Murphy, P. F., Milwaukee, Wis. Boiler-stand. No. 927,746; July 13; Sp. p. 2163; Gaz. vol. 144; p. 375.  
 Murphy, P. H. (See Covert, E. C., assignor.)  
 Murphy, P. H. (See Hoffman, J. J., assignor.)  
 Murphy, P. H., St. Louis, Mo. Outside-car-roof. No. 915,205; Mar. 16; Sp. p. 3226; Gaz. vol. 140; p. 563.  
 Murphy, P. H., St. Louis, Mo. Car-roof. No. 929,236; July 27; Sp. p. 5242; Gaz. vol. 144; p. 929.  
 Murphy, P. J., Alexandria, Va. Saw-carriage. No. 940,470; Nov. 16; Sp. p. 4502; Gaz. vol. 148; p. 753.  
 Murphy, R. E., Colorado Springs, Colo. Mechanism for danger-signals for railways. No. 938,429; Oct. 26; Sp. p. 5951; Gaz. vol. 147; p. 1009.  
 Murphy, R. E., Colorado Springs, assignor of one-half to M. O. Crose, Montrose, Colo. File-driver. No. 915,788; Mar. 23; Sp. p. 4411; Gaz. vol. 140; p. 783.  
 Murphy, S. D., L'Anse, Mich. Snow-plow and groove-cutter. No. 929,318; July 27; Sp. p. 5463; Gaz. vol. 144; p. 958.  
 Murphy, T., Philadelphia, Pa. Lamp-chimney holder. No. 910,710; Jan. 26; Sp. p. 4663; Gaz. vol. 138; p. 848.  
 Murphy, T., Cleveland, Ohio. Packing and making same. No. 928,875; July 20; Sp. p. 4493; Gaz. vol. 144; p. 783.  
 Murphy, T. H., assignor to Johnston Novelty & Mill Specialty Co., Utica, N. Y. Machine for turning and winding tubular fabrics. No. 941,164; Nov. 23; Sp. p. 6003; Gaz. vol. 148; p. 1009.  
 Murphy, T. J., Rochester, N. Y. Electricity-rectifier. No. 914,499; Mar. 9; Sp. p. 1775; Gaz. vol. 140; p. 304.  
 Murphy, W., New York, assignor of one-half to J. P. Gallagher, Brooklyn, N. Y. Granite molding and surface cutting machine. No. 918,187; Apr. 13; Sp. p. 2478; Gaz. vol. 141; p. 444.

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- Murphy, W. B., assignor of one-half to W. H. Rutty, New York, N. Y. Cast-off for suspenders. No. 912,251; Feb. 9; Sp. p. 2484; Gaz. vol. 139; p. 428.
- Murphy, W. F., assignor to C. O. Prince, New York, N. Y. Tube. No. 919,915; Apr. 27; Sp. p. 6336; Gaz. vol. 141; p. 1082.
- Murphy, W. H. (See Denman and Murphy.)
- Murphy, W. P., St. Louis, Mo. Car-roof. No. 930,679; Aug. 10; Sp. p. 2164; Gaz. vol. 145; p. 378.
- Murray, A. J., *et al.* (See Hammill, J. H., assignor.)
- Murray, A. J., assignor to Cortland Carriage Goods Company, Cortland, N. Y. Vehicle-top-shifting rail. No. 929,237; July 27; Sp. p. 5244; Gaz. vol. 144; p. 929.
- Murray, A. R. (See Anderson and Murray.)
- Murray, A. R., assignor to Cincinnati Shaper Company, Cincinnati, Ohio. Shaping-machine. No. 910,840; Jan. 26; Sp. p. 4928; Gaz. vol. 138; p. 889.
- Murray, A. R., assignor to Cincinnati Shaper Company, Cincinnati, Ohio. Key-seating attachment. No. 910,841; Jan. 26; Sp. p. 4929; Gaz. vol. 138; p. 890.
- Murray, B. C., assignor of one-fourth to O. Rotherf. Altoona, Pa. Metal tie. No. 909,011; Jan. 5; Sp. p. 1189; Gaz. vol. 138; p. 190.
- Murray, C. (See Williams, D. A., assignor.)
- Murray, C. C., Huntingdon, Tenn. Dental implement. No. 909,643; Jan. 12; Sp. p. 2438; Gaz. vol. 138; p. 433.
- Murray, C. F., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Railway-car truck. No. 942,096; Dec. 7; Sp. p. 129; Gaz. vol. 149; p. 21.
- Murray, C. P., *et al.* (See Hammill, J. H., assignor.)
- Murray, E., Glasgow, Scotland. Spring vehicle-wheel. No. 939,432; Nov. 9; Sp. p. 2196; Gaz. vol. 148; p. 365.
- Murray, G. C., New York, N. Y. Shock-absorber. No. 927,810; July 13; Sp. p. 2299; Gaz. vol. 144; p. 397.
- Murray, G. G., Larchmont, N. Y., assignor to American Lithographic Company. Lithographic-printing form and making the same. No. 927,577; July 13; Sp. p. 1787; Gaz. vol. 144; p. 319.
- Murray, G. H., Bristol, Vt. Automatic gas-regulator. No. 944,686; Dec. 28; Sp. p. 5710; Gaz. vol. 149; p. 991.
- Murray, H., Philadelphia, Pa. Extension hanger-strap for street-cars. No. 928,141; July 13; Sp. p. 2961; Gaz. vol. 144; p. 506.
- Murray, H. B., Jr., Portsmouth, N. H. Delivery apparatus. No. 934,202; Sept. 14; Sp. p. 2513; Gaz. vol. 146; p. 414.
- Murray, H. D. (See Fithian and Murray.)
- Murray, H. D. (See Schrag, A., assignor.)
- Murray, J. (See Wolsey and Fussey, assignors.)
- Murray, J. E., *et al.* (See Hammill, J. H., assignor.)
- Murray, J. J., Newton, Mass. Spare-tire case. No. 940,543; Nov. 16; Sp. p. 4671; Gaz. vol. 148; p. 777.
- Murray, J. W., Chicago, Ill., assignor to Knox Metal Wheel Company, Knox, Ind. Metal wheel-hub. No. 941,029; Nov. 23; Sp. p. 5714; Gaz. vol. 148; p. 964.
- Murray, J. W., assignor to Knox Metal Wheel Company, Knox, Ind. Metal wheel. No. 941,030; Nov. 23; Sp. p. 5715; Gaz. vol. 148; p. 964.
- Murray, M. (See Knox and Murray.)
- Murray, M. D., West Homestead, Pa. Electric closet appliance. No. 916,355; Mar. 23; Sp. p. 5459; Gaz. vol. 140; p. 969.
- Murray, M. D., West Homestead, assignor of one-half to P. O. Gara, Pittsburg, Pa. Permanent concrete form. No. 929,969; Aug. 3; Sp. p. 731; Gaz. vol. 145; p. 117.
- Murray, S. (See Murray, W. F., assignor.)
- Murray, S. W., Milton, Pa. Stake for railway-cars. No. 912,149; Feb. 9; Sp. p. 2287; Gaz. vol. 139; p. 396.
- Murray Shoe Company. (See Jones, J. H., assignor.)
- Murray, T. E., New York, N. Y. Light-regulator for electric lamps. No. 913,753; Mar. 2; Sp. p. 163; Gaz. vol. 140; p. 27.
- Murray, T. E., New York, N. Y. Electric fuse-box. No. 913,754; Mar. 2; Sp. p. 165; Gaz. vol. 140; p. 28.
- Murray, T. E., New York, N. Y. Electric cut-out. No. 913,755; Mar. 2; Sp. p. 166; Gaz. vol. 140; p. 28.
- Murray, T. E., New York, N. Y. Electric cut-out. No. 918,188; Apr. 13; Sp. p. 2481; Gaz. vol. 141; p. 444.
- Murray, T. E., New York, N. Y. Electric cut-out. No. 918,891; Apr. 20; Sp. p. 4028; Gaz. vol. 141; p. 706.
- Murray, T. E., New York, N. Y. Electric fuse case. No. 919,744; Apr. 27; Sp. p. 5963; Gaz. vol. 141; p. 1024.
- Murray, T. E., New York, N. Y. Electric safety-fuse. No. 920,613; May 4; Sp. p. 1050; Gaz. vol. 142; p. 171.
- Murray, T. E., New York, N. Y. Electric cut-out. No. 922,801; May 25; Sp. p. 5563; Gaz. vol. 142; p. 801.
- Murray, T. E., New York, N. Y. Electric cut-out. No. 923,439; June 1; Sp. p. 737; Gaz. vol. 143; p. 109.
- Murray, T. E., New York, N. Y. Electric cut-out. No. 924,092; June 8; Sp. p. 2140; Gaz. vol. 143; p. 357.
- Murray, T. E., New York, N. Y. Electric fuse case. No. 924,093; June 8; Sp. p. 2142; Gaz. vol. 143; p. 358.
- Murray, T. E., New York, N. Y. Shield for circuit-wire connections. No. 925,823; June 22; Sp. p. 5744; Gaz. vol. 143; p. 994.
- Murray, T. E., New York, N. Y. Electric fuse box. No. 926,433; June 29; Sp. p. 6987; Gaz. vol. 143; p. 1281.
- Murray, T. E., New York, N. Y. Electric fuse case. No. 928,998; July 27; Sp. p. 4749; Gaz. vol. 144; p. 850.
- Murray, T. E., New York, N. Y. Electric cut-out. No. 928,999; July 27; Sp. p. 4749; Gaz. vol. 144; p. 851.
- Murray, T. E., New York, N. Y. Electric sign. No. 935,803; Oct. 5; Sp. p. 420; Gaz. vol. 147; p. 62.
- Murray, T. E., New York, N. Y. Electric cut-out. No. 941,165; Nov. 23; Sp. p. 6005; Gaz. vol. 148; p. 1009.
- Murray, T. E., New York, N. Y. Electric fuse. No. 943,698; Dec. 21; Sp. p. 3601; Gaz. vol. 149; p. 626.
- Murray, T. E., New York, N. Y. Switchboard and cut-out. No. 943,699; Dec. 21; Sp. p. 3602; Gaz. vol. 149; p. 627.
- Murray, T. J., Springfield, Mass. Flushing apparatus for water-closet bowls. No. 932,716; Aug. 31; Sp. p. 6542; Gaz. vol. 145; p. 1127.
- Murray, T. S., and L. B. Kimball, Arkansas City, Kans. Cistern-cleaner and water-purifier. No. 909,314; Jan. 12; Sp. p. 1805; Gaz. vol. 138; p. 323.
- Murray, W. F., assignor of one-half to S. Murray, San Francisco, Cal. Hoisting apparatus. No. 922,937; May 25; Sp. p. 5869; Gaz. vol. 142; p. 1023.
- Murray, W. J. (See Cane, W. E., assignor.)
- Murray, W. J., Bristol, Pa. Apparatus for supplying liquid to wool. No. 927,998; July 13; Sp. p. 2690; Gaz. vol. 144; p. 459.
- Murray, W. J., assignor of one-twentieth to H. W. Wolcott, Leavenworth, Kans. Electric bell. No. 924,180; June 8; Sp. p. 2368; Gaz. vol. 143; p. 388.
- Murray, W. T., Clarksville, Va. Milk-cooler. No. 938,395; Oct. 26; Sp. p. 5883; Gaz. vol. 147; p. 998.
- Murray, W. W. (See Fernberger and Murray.)
- Murray, W. W., Baltimore, Md., and H. M. Fernberger, Philadelphia, Pa. Treating detinned iron and residues. No. 943,986; Dec. 21; Sp. p. 4210; Gaz. vol. 149; p. 726.
- Murrey, J., Cleveland, Ohio. Elastic-tread vehicle-wheel. No. 927,578; July 13; Sp. p. 1790; Gaz. vol. 144; p. 319.
- Murrey, J. F., assignor of one-half to E. L. Thurston, Cleveland, Ohio. Vehicle-spring structure. No. 932,489; Aug. 31; Sp. p. 6055; Gaz. vol. 145; p. 1050.
- Murrie, A., Philadelphia, Pa. Crack-filling device. No. 926,129; June 29; Sp. p. 6366; Gaz. vol. 143; p. 1130.
- Mürry, H., Zurich, assignor to E. Séquin, Rapperswil, Kt. St. Gallen, Switzerland. Dish-washing machine. No. 942,179; Dec. 7; Sp. p. 330; Gaz. vol. 149; p. 50.
- Musch, A., Dallas, Tex. Mangle. No. 912,872; Feb. 16; Sp. p. 3831; Gaz. vol. 139; p. 675.
- Musgrave, J. V. (See Howarth and Musgrave.)
- Musgrove, J. A., Jr., assignor of one-half to C. H. Patteson, Norton, Va. Safety-bridge for cars. No. 915,622; Mar. 16; Sp. p. 4057; Gaz. vol. 140; p. 700.
- Musgrove, J. A., Jr., assignor of one-half to C. H. Patteson, Norton, Va. Whip-socket. No. 944,201; Dec. 21; Sp. p. 4648; Gaz. vol. 149; p. 796.
- Musgrove, J. A., Jr., Red House, assignor of one-half to C. H. Patteson, Norton, Va. Coaster. No. 917,640; Apr. 6; Sp. p. 1319; Gaz. vol. 141; p. 233.
- Muslar, N., assignor to A. C. Higgins, Worcester, Mass. Bottle-labeling machine. No. 915,035; Mar. 9; Sp. p. 2835; Gaz. vol. 140; p. 480.
- Musselman, A. J. (See O'Horo, P. F., assignor.) (Reissue.)
- Musser, F. A., Altoona, Pa. Cooking utensil. No. 936,343; Oct. 12; Sp. p. 1540; Gaz. vol. 147; p. 264.
- Musser, J. D., Easton, Ohio. Reversing mechanism for traction-engines. No. 938,164; Oct. 26; Sp. p. 5375; Gaz. vol. 147; p. 917.
- Mussetter, J. A., Wilmington, assignor to Adjustable Planter Wheel Company, Clinton, Ohio. Adjustable wheel for corn-planters. No. 921,537; May 11; Sp. p. 2996; Gaz. vol. 142; p. 514.
- Mussey, W. H., Long Island, N. Y. Draft-rigging. No. 926,351; June 29; Sp. p. 6836; Gaz. vol. 143; p. 1203.
- Musselman, F., Fort Spring, assignor of one-half to M. C. Hinton, Hinton, W. Va. Brake-actuating mechanism. No. 918,463; Apr. 13; Sp. p. 3041; Gaz. vol. 141; p. 534.
- Musso, C. W., Lynn, Mass. Sole-edge-trimming machine. No. 920,488; May 4; Sp. p. 788; Gaz. vol. 142; p. 128.
- Mustard, J. E., Oroville, Cal., assignor of one-half to T. M. Andrew, La Fayette, Ind. Safety-switch. No. 925,589; June 22; Sp. p. 5217; Gaz. vol. 143; p. 318.
- Mustin, H. C., U. S. Navy. Sighting-telescope for indicating ships' oscillations. No. 922,938; May 25; Sp. p. 5870; Gaz. vol. 142; p. 1023.
- Mustin, H. C., U. S. Navy. Focusing-cap for telescopes. No. 924,488; June 8; Sp. p. 2997; Gaz. vol. 143; p. 490.



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- Muth, A., Nuremberg, assignor to L. Dolletscheck, Munich, Germany. Riding-spur. No. 929,099; July 27; Sp. p. 4952; Gaz. vol. 144; p. 882.
- Muth, A. E., Milwaukee, Wis. Embossing-machine. No. 921,438; May 11; Sp. p. 2774; Gaz. vol. 142; p. 476.
- Muth, A. W. (See Griffin and Muth.)
- Muth, J., W. E. Kelly, and C. F. Heinkel, assignors to Kelly Tool Company, Cleveland, Ohio. Reamer. No. 931,883; Aug. 24; Sp. p. 4773; Gaz. vol. 145; p. 825.
- Muth, J. P. (See Griffith, A. E., assignor.)
- Muth, J. P., assignor of one-third to A. E. Griffith, Jersey City, N. J. Liquid measuring, mixing, and dispensing apparatus. No. 921,870; May 18; Sp. p. 3672; Gaz. vol. 142; p. 647.
- Muther, L. (See Lautenschlager, W. F., assignor.)
- Muther, L. (See Saunders, J. E., assignor.)
- Muzzy, W. H., assignor to National Cash Register Company, Dayton, Ohio. Cash-register. No. 928,267; July 20; Sp. p. 3270; Gaz. vol. 144; p. 530.
- Muzzy, W. H., assignor to National Cash Register Company, Dayton, Ohio. Distant register. No. 928,268; July 20; Sp. p. 3275; Gaz. vol. 144; p. 581.
- Muzzy, W. H., assignor, by mesne assignments, to National Cash Register Company, Dayton, Ohio. Cash-register. No. 935,677; Oct. 5; Sp. p. 112; Gaz. vol. 147; p. 19.
- Muzzy, W. H., assignor, by mesne assignments, to National Cash Register Company, Dayton, Ohio. Cash-register. No. 939,289; Nov. 9; Sp. p. 1825; Gaz. vol. 148; p. 316.
- Muzzy, W. H., assignor, by mesne assignments, to National Cash Register Company, Dayton, Ohio. Cash-register. No. 941,378; Nov. 30; Sp. p. 6465; Gaz. vol. 148; p. 1101.
- Myer Bridges Company. (See Stocker, L., assignor.)
- Myers, A. D., Colchester, Ill. Feed-box. No. 939,533; Nov. 9; Sp. p. 2399; Gaz. vol. 148; p. 398.
- Myers, A. L., Lincoln, Nebr. Edge-turning tool for scraper-blades. No. 929,690; Aug. 3; Sp. p. 101; Gaz. vol. 145; p. 19.
- Myers, A. M., and W. A. Poister, assignors to Gallion Metallic Vault Company, Galion, Ohio. Vault-closure. No. 939,922; Nov. 9; Sp. p. 3242; Gaz. vol. 148; p. 534.
- Myers & Bro., F. E. (See Rayner, W. H., assignor.)
- Myers and Brother, F. E. (See Myers, P. A., assignor.)
- Myers, C., Springfield, Mich. Wagon-reach coupling. No. 944,143; Dec. 21; Sp. p. 4536; Gaz. vol. 149; p. 778.
- Myers, C. A., Camden, N. J. Advertising device. No. 936,344; Oct. 12; Sp. p. 1540; Gaz. vol. 147; p. 264.
- Myers, C. H., assignor to National Harrow Co., Le Roy, Ill. Harrow attachment for plows. No. 928,210; July 13; Sp. p. 3117; Gaz. vol. 144; p. 531.
- Myers, D. N., Toledo, Ohio. Railway-tie and rail-fastener. No. 921,871; May 18; Sp. p. 3675; Gaz. vol. 142; p. 647.
- Myers, E., Taylorsville, N. C. Car and hose coupling. No. 916,759; Mar. 30; Sp. p. 6268; Gaz. vol. 140; p. 1121.
- Myers, E. W., Port Tampa, Fla. Ship's davit. No. 915,464; Mar. 16; Sp. p. 3723; Gaz. vol. 140; p. 646.
- Myers, E. W., Rosedale, Kans., assignor to American Box Machine Company, Kansas City, Mo. Box-making machine. No. 913,837; Mar. 2; Sp. p. 325; Gaz. vol. 140; p. 56.
- Myers, F., New York, N. Y. Device for sharpening razors and razor-blades. No. 941,520; Nov. 30; Sp. p. 6796; Gaz. vol. 148; p. 1151.
- Myers, F. W., New York, N. Y. Device for cleaning brushes of carpet-sweepers. No. 939,290; Nov. 9; Sp. p. 1835; Gaz. vol. 148; p. 316.
- Myers, G. A., Kalamazoo, Mich. Table. No. 925,370; June 15; Sp. p. 4776; Gaz. vol. 143; p. 815.
- Myers, G. B., Camden, N. J. Die-press. No. 937,460; Oct. 19; Sp. p. 3908; Gaz. vol. 147; p. 664.
- Myers, G. P. (See Diehl, F., assignor.)
- Myers, H. A., Goshen, Ind. Ladder. No. 909,315; Jan. 12; Sp. p. 1806; Gaz. vol. 138; p. 323.
- Myers, H. A., Goshen, Ind. Track-joint. No. 914,443; Mar. 9; Sp. p. 1672; Gaz. vol. 140; p. 286.
- Myers, H. A., Goshen, Ind. Track-joint. No. 936,016; Oct. 5; Sp. p. 878; Gaz. vol. 147; p. 132.
- Myers, H. A., Goshen, Ind. Hoisting device. No. 942,735; Dec. 7; Sp. p. 1454; Gaz. vol. 149; p. 238.
- Myers, H. L. (See Goudie and Myers.)
- Myers, H. R., Covington, Ky. Metal construction for walls. No. 916,356; Mar. 23; Sp. p. 5460; Gaz. vol. 140; p. 969.
- Myers, J. A., Braddock, Pa. Spindle-joint for automobiles and other vehicles. No. 922,939; May 25; Sp. p. 5873; Gaz. vol. 142; p. 1023.
- Myers, J. F., Hiawatha, Kans. Wagon-box lifting and dumping device. No. 934,334; Sept. 14; Sp. p. 2756; Gaz. vol. 146; p. 458.
- Myers, J. L. (See Seiman, A., assignor.)
- Myers, J. P., et al. (See Hoffman, E. J., assignor.)
- Myers, J. W., Toledo, Ohio. Pencil-holder. No. 935,393; Sept. 28; Sp. p. 4861; Gaz. vol. 146; p. 860.
- Myers, L. C., New York, N. Y., assignor to Royal Typewriter Company, Hoboken, N. J. Writing-machine. No. 918,354; Apr. 13; Sp. p. 2823; Gaz. vol. 141; p. 500.
- Myers, L. C., New York, N. Y., assignor to Royal Typewriter Company, Hoboken, N. J. Type-writing machine. No. 932,307; Aug. 24; Sp. p. 5670; Gaz. vol. 145; p. 967.
- Myers, L. C., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 938,500; Nov. 2; Sp. p. 116; Gaz. vol. 148; p. 19.
- Myers, M. C., Oroville, Cal. Load lifting and releasing device. No. 913,540; Feb. 23; Sp. p. 5180; Gaz. vol. 139; p. 923.
- Myers, M. J., Syracuse, N. Y. Instrument for locating grounds and breaks in electric circuits. No. 944,459; Dec. 28; Sp. p. 5211; Gaz. vol. 149; p. 913.
- Myers, N. H. (See Wood, C. D., assignor.)
- Myers, P. A., assignor to F. E. Myers and Brother, Ashland, Ohio. Pump. No. 915,994; Mar. 23; Sp. p. 4802; Gaz. vol. 140; p. 849.
- Myers, P. A., assignor to F. E. Myers and Brother, Ashland, Ohio. Hay-carrier. No. 918,077; Apr. 13; Sp. p. 2272; Gaz. vol. 141; p. 408.
- Myers, P. A., assignor to F. E. Myers and Brother, Ashland, Ohio. Double-harpoon hay-fork. No. 927,579; July 13; Sp. p. 1792; Gaz. vol. 144; p. 320.
- Myers, P. A., assignor to F. E. Myers and Brother, Ashland, Ohio. Working head for power-pumps. No. 928,234; July 13; Sp. p. 3161; Gaz. vol. 144; p. 539.
- Myers, P. A., assignor to F. E. Myers and Brother, Ashland, Ohio. Working-head for power-pumps. No. 930,405; Aug. 10; Sp. p. 1578; Gaz. vol. 145; p. 285.
- Myers, P. A., assignor to F. E. Myers and Brother, Ashland, Ohio. Working-head for power-pumps. No. 930,981; Aug. 10; Sp. p. 2819; Gaz. vol. 145; p. 476.
- Myers, P. A., assignor to F. E. Myers and Brother, Ashland, Ohio. Spray-nozzle. No. 935,124; Sept. 28; Sp. p. 4333; Gaz. vol. 146; p. 773.
- Myers, P. B., Morristown, N. J. Closure for paper boxes and similar articles. No. 924,094; June 8; Sp. p. 2143; Gaz. vol. 143; p. 358.
- Myers, R. (See Glaser and Myers.)
- Myers, W. M. (See Slaughter, L. T., assignor.)
- Myers, W. S., and C. C. Kahne, Ashland, Ky. Vegetable-cutter. No. 939,951; Nov. 9; Sp. p. 3298; Gaz. vol. 148; p. 544.
- Myers, W. W., and J. R. Royer, Janesville, Iowa. Tile-machine. No. 921,142; May 11; Sp. p. 2135; Gaz. vol. 142; p. 376.
- Mygatt, O. A., New York, N. Y. Making pressed-glass articles. No. 925,824; June 22; Sp. p. 5745; Gaz. vol. 143; p. 995.
- Mygatt, O. A., New York, N. Y. Prismatic and diffusion inclosure. No. 935,220; Sept. 28; Sp. p. 4515; Gaz. vol. 146; p. 804.
- Mygatt, O. A., New York, N. Y. Skirting for reflectors. No. 939,062; Nov. 2; Sp. p. 1310; Gaz. vol. 148; p. 212.
- Mylchreest, W. F., Oswego, N. Y. Horse-cleaner. No. 921,143; May 11; Sp. p. 2138; Gaz. vol. 142; p. 376.
- Mylott, J., North Andover, assignor of one-half to G. W. Pratt, Haverhill, Mass. Car-fender. No. 943,635; Dec. 14; Sp. p. 3471; Gaz. vol. 149; p. 577.
- Myrholm, J., Odell, Ill. Mechanism for converting rotary into reciprocatory motion. No. 939,063; Nov. 2; Sp. p. 1311; Gaz. vol. 148; p. 212.
- Myrick, C. C., Globe, Ariz., assignor to American Fuse Lighting Co., Los Angeles, Cal. Fuse-lighter. No. 928,685; July 20; Sp. p. 4129; Gaz. vol. 144; p. 719.
- Myschkin, N., New Alexandria, Russia. Electric motor for high-tension currents. No. 913,541; Feb. 23; Sp. p. 5182; Gaz. vol. 139; p. 924.
- Myser, I. A., Rifle, Colo. Vacuum fly-trap. No. 923,368; June 1; Sp. p. 593; Gaz. vol. 143; p. 86.
- Myser, J. F., Rifle, Colo. Knockdown crate or box. No. 923,367; June 1; Sp. p. 591; Gaz. vol. 143; p. 85.
- N. C. Stearns & Co. (See Schneeloch, A., assignor.)
- N. R. Capsule Syndicate. (See Brown, R., Jr., assignor.)
- N. R. Capsule Syndicate. (See Jones and Braun, assignors.)
- N. Z. Graves Company. (See Sullivan, J. E., assignor.)
- Nachbauer, J. M., and F. Statman, St. Paul, Minn. Power mechanism. No. 936,018; Oct. 5; Sp. p. 881; Gaz. vol. 147; p. 133.
- Nachmann, L., New York, N. Y. Curtain-supporter. No. 914,865; Mar. 9; Sp. p. 2549; Gaz. vol. 140; p. 426.
- Nachod, C. P., Philadelphia, Pa. Trolley-switch. No. 922,024; May 18; Sp. p. 3985; Gaz. vol. 142; p. 697.
- Nacke, R., Langenhof, near Bielefeld, Germany. Spiked roller for agricultural purposes. No. 943,989; Dec. 21; Sp. p. 4216; Gaz. vol. 149; p. 727.
- Nadolski, M., Jersey City, N. J. Lock. No. 918,357; Apr. 13; Sp. p. 2827; Gaz. vol. 141; p. 500.
- Nader, M., Saint Germain-lez-Corbeil, near Corbeil, France. Rotary motor. No. 928,270; July 20; Sp. p. 3283; Gaz. vol. 144; p. 581.
- Nageborn, W. E., Detroit, Mich. Internal-combustion engine. No. 944,811; Dec. 28; Sp. p. 6002; Gaz. vol. 149; p. 1033.

*Alphabetical list of patentees—Continued.*

- Nagel, C. L., Cheyenne, Wyo. Support for hand-rails for locomotives. No. 926,506; June 29; Sp. p. 7106; Gaz. vol. 143; p. 1255.  
 Nagel, T., Chicago, Ill. Pipe-clamp for ground-contacts. No. 921,145; May 11; Sp. p. 2142; Gaz. vol. 142; p. 377.  
 Nagely, J., Toledo, Ohio. Garment-hanger. No. 930,407; Aug. 10; Sp. p. 1582; Gaz. vol. 145; p. 286.  
 Nagle, F. C., Keithville, La. Gyve. No. 941,942; Nov. 30; Sp. p. 7670; Gaz. vol. 148; p. 1292.  
 Nagle, J., *et al.* (See Emberger, W., assignor.)  
 Naglo, R., Wiesbaden, Germany. Projectile. No. 911,430; Feb. 2; Sp. p. 784; Gaz. vol. 139; p. 136.  
 Nagy, D. von, assignor, by mesne assignments, to Bausch & Lomb Optical Company, Rochester, N. Y. Depression range-finder. No. 918,190; Apr. 13; Sp. p. 2485; Gaz. vol. 141; p. 445.  
 Nagy, D. von, assignor, by mesne assignments, to Bausch & Lomb Optical Company, Rochester, N. Y. Depression range-finder. No. 918,191; Apr. 13; Sp. p. 2489; Gaz. vol. 141; p. 445.  
 Nagy, F. (See Ilg, C. C., assignor.)  
 Nagy, J., Cleveland, Ohio. Car coupling and bumper. No. 918,580; Apr. 20; Sp. p. 3304; Gaz. vol. 141; p. 601.  
 Nagythy, B. (See Nagythy, K. and B.)  
 Nagythy, K. and B., Johnstown, Pa. Nut-lock. No. 941,804; Nov. 30; Sp. p. 7387; Gaz. vol. 148; p. 1243.  
 Nahm, E. J. (See Nahm, W. L. and E. J.)  
 Nahm, W. L. and E. J., St. Louis, Mo. Safety-razor. No. 938,296; Oct. 26; Sp. p. 5884; Gaz. vol. 147; p. 998.  
 Nahm, W. L., and E. J. O'Brien, Jr., assignors to St. Louis Delinter Manufacturing Company, St. Louis, Mo. Cylinder-nurling apparatus. No. 934,335; Sept. 14; Sp. p. 2759; Gaz. vol. 146; p. 458.  
 Nahm, W. L., and E. J. O'Brien, Jr., assignors to St. Louis Delinter Manufacturing Company, St. Louis, Mo. Duplex apparatus for delinting cotton-seed. No. 934,336; Sept. 14; Sp. p. 2761; Gaz. vol. 146; p. 458.  
 Nail, J. J., Kimbolton, N. C. Reversible plow. No. 939,617; Nov. 9; Sp. p. 2593; Gaz. vol. 148; p. 426.  
 Nail, J. L., Sanford, assignor of one-half to S. J. Norton, Titusville, Fla. Combined table. No. 908,487; Jan. 5; Sp. p. 106; Gaz. vol. 138; p. 20.  
 Nail, J. L., Sanford, assignor of one-half to S. J. Norton, Titusville, Fla. Combined cigar-safe. No. 919,926; Apr. 27; Sp. p. 6350; Gaz. vol. 141; p. 1085.  
 Nakagawa, K., Allegheny, Pa. Cooling apparatus. No. 928,145; July 13; Sp. p. 2967; Gaz. vol. 144; p. 508.  
 Nakrascholsky, A., and M. Leonhardt, McKees Rocks, Pa. Horse-detacher. No. 929,975; Aug. 3; Sp. p. 745; Gaz. vol. 145; p. 120.  
 Nall, F. W., Dearborn, Mich. Amusement device. No. 931,139; Aug. 17; Sp. p. 3197; Gaz. vol. 145; p. 558.  
 Nalley, T. R., *et al.* (See Levey, T. J., assignor.)  
 Nally, M. A., New York, N. Y. Holder for pillow-shams. No. 938,015; Oct. 26; Sp. p. 5041; Gaz. vol. 147; p. 867.  
 Nanaldt, E., New Haven, Conn. Flush-valve. No. 931,465; Aug. 17; Sp. p. 3892; Gaz. vol. 145; p. 671.  
 Nannenhorn, H., Chicago, Ill. Trolley safety device. No. 913,542; Feb. 23; Sp. p. 5184; Gaz. vol. 139; p. 924.  
 Naphey, W. J., Camden, N. J. Cutting, piercing, and marking pen-machine. No. 914,600; Mar. 9; Sp. p. 1986; Gaz. vol. 140; p. 339.  
 Napier, A. V., Dodge City, Kans. Press-feeder's finger-stall. No. 911,838; Feb. 9; Sp. p. 1583; Gaz. vol. 139; p. 295.  
 Napier, C., Springfield, Mass. Metal-sawing machine. No. 935,395; Sept. 28; Sp. p. 4863; Gaz. vol. 146; p. 860.  
 Napierala, P. W., Chicago, Ill. Hame-fastener. No. 925,497; June 22; Sp. p. 5027; Gaz. vol. 143; p. 887.  
 Narragansett Machine Company. (See Thornley, A. J., assignor.)  
 Narrow Fabric Company. (See Thun and Lücke, assignors.)  
 Narum, M. N., Milwaukee, and P. L. Jacobson, Norway, Wis. Cord-support for electric lights. No. 915,997; Mar. 23; Sp. p. 4811; Gaz. vol. 140; p. 850.  
 Nash, C. J., assignor to W. H. Miner Company, Chicago, Ill. Friction draft-rigging. No. 931,955; Aug. 24; Sp. p. 4960; Gaz. vol. 145; p. 850.  
 Nash, F., St. Paul, Minn. Grass-cutter. No. 911,516; Feb. 2; Sp. p. 934; Gaz. vol. 139; p. 163.  
 Nash, J. B., Laneville, W. Va. Burglar-alarm. No. 926,817; July 6; Sp. p. 224; Gaz. vol. 144; p. 37.  
 Nash, J. J. (See Eccleston, S. S., assignor.)  
 Nash, J. S., Chicago, Ill. Tumbler-washer. No. 917,887; Apr. 13; Sp. p. 1864; Gaz. vol. 141; p. 340.  
 Nash, N. E., Toronto, Ontario, Canada. Boiler-feeding apparatus. No. 909,013; Jan. 5; Sp. p. 1192; Gaz. vol. 138; p. 190.  
 Nash, W. C., Neenah, assignor of two-thirds to Sailer and Whitmore Machine Company, Menasha, Wis. Press-roll for paper-making machines. No. 912,254; Feb. 9; Sp. p. 2489; Gaz. vol. 139; p. 429.  
 Nash, W. C., Neenah, assignor of two-thirds to Sailer and Whitmore Machine Company, Menasha, Wis. Press-roll for paper-making machines. No. 912,255; Feb. 9; Sp. p. 2490; Gaz. vol. 139; p. 429.  
 Nash, W. G., New York, N. Y. Folding baby-carriage. No. 910,304; Jan. 19; Sp. p. 3827; Gaz. vol. 138; p. 689.  
 Nash, W. P., Rocky, Okla. Washing-machine. No. 932,165; Aug. 24; Sp. p. 5395; Gaz. vol. 145; p. 920.  
 Nashold, M., Davis Junction, assignor of three-fourths to E. E. Gould, Chicago, Ill. Centrifugal block-machine. (Reissue.) No. 12,935; Apr. 6; Sp. p. 1533; Gaz. vol. 141; p. 267.  
 Naslund, E. A., Dunkirk, N. Y. Valve for water-tanks. No. 923,878; June 8; Sp. p. 1746; Gaz. vol. 143; p. 291.  
 Nason, A. G., *et al.* (See Goldkamp, F. J., assignor.)  
 Nason, W. D., Le Roy, Minn. Beel-puller. No. 919,748; Apr. 27; Sp. p. 5967; Gaz. vol. 141; p. 1025.  
 Näsén, J. F., and A. E. T. Bergström, Stockholm, Sweden. Apparatus for lighting and extinguishing gas-lights from a distance. No. 940,046; Nov. 16; Sp. p. 5541; Gaz. vol. 148; p. 606.  
 Nast, G., Munich, Germany, assignor, by mesne assignments, to United Cigarette Machine Company, Limited, London, England. Making cigarette-tubes. No. 936,019; Oct. 5; Sp. p. 883; Gaz. vol. 147; p. 133.  
 Nathan, B., and G. Heuser, Frankfurt-on-the-Main, Germany. Sweeping-machine. No. 942,970; Dec. 14; Sp. p. 2017; Gaz. vol. 149; p. 349.  
 Nathan, L., Zurich, Switzerland. Brewing beer. No. 915,791; Mar. 23; Sp. p. 4416; Gaz. vol. 140; p. 784.  
 Nather, F., Johnstown, Pa., assignor to Lorain Steel Company. Switch structure. No. 920,619; May 4; Sp. p. 1063; Gaz. vol. 142; p. 172.  
 Nathusius, H., Friedenschütte, near Morgenroth, Germany. Electrical furnace. No. 920,078; Apr. 27; Sp. p. 6672; Gaz. vol. 141; p. 1134.  
 Nation, G. W., Alliance, Nebr. Potato-planter. No. 930,877; Aug. 10; Sp. p. 2599; Gaz. vol. 145; p. 444.  
 Nation, G. W., Alliance, Nebr. Seed-drill. No. 934,828; Sept. 21; Sp. p. 3726; Gaz. vol. 146; p. 647.  
 Nation, T. C., Equality, Ill. Mine-car coupling. No. 908,880; Jan. 5; Sp. p. 926; Gaz. vol. 138; p. 148.  
 National Alcohol Light and Heating Company. (See Baker, D. F., assignor.)  
 National Ammonia Company. (See Schrandenbach, C., assignor.)  
 National Anti-Friction Roller-Bearing Company. (See Killian, A. T., assignor.)  
 National Arms and Stamping Company. (See Hille, W. J., assignor.)  
 National Automatic Tool Co. (See Temple and Dosch, assignors.)  
 National Bakers' Egg Co. (See Fullerton, A., assignor.)  
 National Binding Machine Company. (See Brownson, E. L., assignor.)  
 National Biscuit Company. (See Ferrall and Mackay, assignors.)  
 National Blank Book Co. (See Webster, E. P., assignor.)  
 National Boiler Washing Company. (See Otis and White, assignors.) (Reissue.)  
 National Brake and Clutch Company. (See Sanborn, W. S., assignor.)  
 National Brake and Clutch Company. (See Whitcomb, L., assignor.)  
 National Brake & Electric Company. (See Ohlsen, W., assignor.)  
 National Brake & Electric Company. (See Richards, W. J., assignor.)  
 National Brake Shoe Company. (See Pettis, C. D., assignor.)  
 National Carbon Company. (See Allen, M. W., assignor.)  
 National Carbon Company. (See Waitt, W. G., assignor.)  
 National Cash Register Company. (See Carroll, T., assignor.)  
 National Cash Register Company. (See Church, E. S., assignor.)  
 National Cash Register Company. (See Cleal and Macauley, assignors.)  
 National Cash Register Company. (See Fuller, F. L., assignor.)  
 National Cash Register Company. (See Heyne, Hayward, and McCarthy, assignors.)  
 National Cash Register Company. (See Kettering, C. F., assignor.)  
 National Cash Register Company. (See Kettering, E. F., assignor.)  
 National Cash Register Company. (See Muzzy, W. H., assignor.)  
 National Cash Register Company. (See Osborn, F. C., assignor.)  
 National Cash Register Company. (See Palmer, C., assignor.)  
 National Cash Register Company. (See Von Pein, E. J., assignor.)  
 National Casket Company. (See Boden, F. C., assignor.)  
 National Casket Company. (See Corbett, J. R., assignor.)  
 National Casket Company. (See Frazier, G. C., assignor.)  
 National Checking Company. (See Raschick, C. T., assignor.)  
 National Concrete Specialty Company. (See Ferguson, W. S., assignor.)  
 National Cotton Improvement Company. (See Doremus, W. D., assignor.)



*Alphabetical list of patentees—Continued.*

- National Dump Car Company. (See Lipschutz, A., assignor.)  
 National Dump Car Company. (See Otis, S., assignor.)  
 National Dump Car Company. (See Seaberg, F., assignor.)  
 National Dump Car Company. (See Yost, W. H., assignor.)  
 National Dump Car Company. (See Zimmerman, R. M., assignor.)  
 National Electric Lamp Company. (See Frech, T. W., Jr., assignor.)  
 National Electric Lamp Company. (See Merritt, M. M., assignor.)  
 National Electric Lamp Company. (See Minor and Heck, assignors.)  
 National Electric Signaling Company. (See Fessenden, R. A., assignor.)  
 National Electric Works. (See Sohm, A. L., assignor.)  
 National Enameling and Stamping Company. (See Hagerty, G. V., assignor.)  
 National Enameling and Stamping Company. (See Knapp, G. W., assignor.)  
 National Fire Works Distributing Company *et al.* (See Wertz, C. V., assignor.)  
 National Gas Light Company. (See Doorembos, J. and G. G., assignors.)  
 National Harrow Co. (See Myers, C. H., assignor.)  
 National Hoisting Engine Company. (See Campbell, C., assignor.)  
 National Hydraulic Tire Setter Company. (See Henderson and Lourie, assignors.)  
 National Hygienic Service Company. (See Jones, A. D., assignor.)  
 National Iron and Wire Company. (See Craig, J., assignor.)  
 National Lac Casein Co. (See Head, R., assignor.)  
 National Lock Company. (See Faust and Hogland, assignors.) (Reissue.)  
 National Lock Washer Company. (See Hoyt, D., assignor.)  
 National Machine Company. (See Hogan, J. T., assignor.)  
 National Machine Company. (See Keegan, H. F., assignor.)  
 National Machine Company. (See Lourie, Devero, and Ford.)  
 National Machine Company. (See Slater, H. W., assignor.)  
 National Machinery Company. (See Clouse, W. L., assignor.)  
 National Malleable Castings Company. (See Brooks, C. K., assignor.)  
 National Malleable Castings Company. (See Buckius, A. O., Jr., assignor.)  
 National Malleable Castings Company. (See Byers, J. J., assignor.)  
 National Malleable Castings Company. (See Kneale, W. C., assignor.)  
 National Malleable Castings Company. (See Krakau, H. T., assignor.)  
 National Malleable Castings Company. (See Manning and Stephenson, assignors.)  
 National Malleable Castings Company. (See Pope, H. F., assignor.)  
 National Malleable Castings Company. (See Schroeder, W. S., assignor.)  
 National Malleable Castings Company. (See Slater, J. A., assignor.)  
 National Malleable Castings Company. (See Stephenson, J. W., assignor.)  
 National Malleable Castings Company. (See Tower, C. A., assignor.)  
 National Mausoleum Company. (See Walter and Inman, assignors.)  
 National Nutrient Company. (See Campbell, J. H. and C. H., assignors.)  
 National Oyster Carrier Co. (See Hulbert, E. F., assignor.)  
 National Paint & Varnish Co. (See Cooke, W. L., assignor.)  
 National Papeterie Company. (See Syner, H., assignor.)  
 National Peat Products & Chemical Company. (See Smith, J. E., assignor.)  
 National Perforating Machine Company. (See Mallam, G. H., assignor.)  
 National Piano Player Company. (See Cleveland, W. E., assignor.)  
 National Power Company. (See Casella and Reynolds, assignors.)  
 National Railway Materials Company. (See Hall, G. L., assignor.)  
 National Regulator Company. (See Comfort, E. W., assignor.)  
 National Regulator Company. (See Curtis, W. W., assignor.)  
 National Sewing Machine Company. (See Brown, R. R., assignor.)  
 National Sewing Machine Company. (See Winkel, C., assignor.)  
 National Shoemakers. (See Taylor, F. F., assignor.)  
 National Specialty Manufacturing Company. (See Bussinger, W. J., assignor.)  
 National Spring Bed Company. (See Arnold, H. B., assignor.)  
 National Spring Bed Company. (See Porter, F. A., assignor.)  
 National Stamp Vending Machine Company. (See Briggs, W. C., assignor.)  
 National Steam Specialty Company. (See Brissenden, W. W., assignor.)  
 National Sugar Company. (See Stewart, C. P., assignor.)  
 National Tongueless Buckle Company. (See Perryman, H. L., assignor.)  
 National Torpedo Company. (See Davis, C., assignor.)  
 National Tube Co. (See Duncan, G., assignor.)  
 National Tube Company. (See Boyd and Hock, assignors.)  
 National Tube Company. (See Mowat, O. M., assignor.)  
 National Tube Company. (See Simpson, J., assignor.)  
 National Tube Company. (See Stiefel and Nicholson, assignors.)  
 National Vacuum Cleaning Company. (See Green, C. R., assignor.)  
 National Veneer Package Company. (See Mead, H. G., assignor.)  
 National Wafer Company. (See Meier, F. A., assignor.)  
 National Water Main Cleaning Co. (See Wehrle, G. M., assignor.)  
 National Water Main Cleaning Company. (See Greenan, H. A., assignor.)  
 National Water Main Cleaning Company. (See Greenan, H. A., assignor.) (Reissue.)  
 National Water Main Cleaning Company. (See Reeser, E. R., assignor.)  
 National Water Main Cleaning Company. (See Whitney, G. F., assignor.)  
 National Water Softener Company. (See Bain and Smith, assignors.)  
 National Waterproof Film Company. (See Daniels, W. A., assignor.)  
 National Waterproof Film Company. (See Thompson, F. B., assignor.)  
 National Wire Bound Box Co. (See Inwood and Chapman, assignors.)  
 National Wire Bound Box Company. (See Chapman, C. C., assignor.)  
 National Wire Bound Box Company. (See Inwood, R. G., assignor.)  
 National Wire Bound Box Company. (See Worsham, H., assignor.)  
 Natura Company. (See Sanborn, J. P., assignor.)  
 Nau, J. B., New York, N. Y. Tempering-furnace arrangement. No. 916,477; Mar. 30; Sp. p. 5731; Gaz. vol. 140; p. 1034.  
 Naughton, J., Belleville, N. J. Apparatus for automatically regulating heaters. No. 928,323; July 20; Sp. p. 3409; Gaz. vol. 144; p. 600.  
 Naul, F. M., Grangeville, Ia. Well-bucket hook. No. 921,146; May 11; Sp. p. 2144; Gaz. vol. 142; p. 377.  
 Naulty, T. J., assignor to J. G. Brill Company, Philadelphia, Pa. Door-operating device. No. 912,019; Feb. 9; Sp. p. 2041; Gaz. vol. 139; p. 356.  
 Naulty, T. J., assignor to J. G. Brill Company, Philadelphia, Pa. Door-operating device. No. 914,161; Mar. 2; Sp. p. 1071; Gaz. vol. 140; p. 170.  
 Naumann, O. (See Lodwig and Naumann.)  
 Naumann, R., New York, N. Y. Advertising novelty. No. 912,402; Feb. 16; Sp. p. 2852; Gaz. vol. 139; p. 518.  
 Naumann, W., Berlin, Germany, assignor to General Electric Company. Motor-control system. No. 927,426; July 6; Sp. p. 1456; Gaz. vol. 144; p. 241.  
 Nause, J., Conyngham, Pa. Seat attachment. No. 938,329; Oct. 26; Sp. p. 5724; Gaz. vol. 147; p. 975.  
 Naylor, F. L., Chicago, Ill. Sash-fastener. No. 924,814; June 15; Sp. p. 3696; Gaz. vol. 143; p. 633.  
 Naylor, N. C., Chicago, Ill. Gear-wheel. No. 929,781; Aug. 3; Sp. p. 318; Gaz. vol. 145; p. 54.  
 Nazarian, J., Syracuse, N. Y. Loom. No. 938,886; Nov. 2; Sp. p. 945; Gaz. vol. 148; p. 150.  
 Nazel, J. (See Gerlock, J. A., assignor.)  
 Neal, A. C., New York, N. Y. Drill-guide. No. 942,581; Dec. 7; Sp. p. 1149; Gaz. vol. 149; p. 187.  
 Neal, A. C., New York, N. Y. Drill-guide. No. 942,582; Dec. 7; Sp. p. 1150; Gaz. vol. 149; p. 187.  
 Neal, E. E., assignor to H. Bull, Springfield, Mass. Cartridge-holder. No. 923,068; May 25; Sp. p. 6137; Gaz. vol. 142; p. 1064.  
 Neal, F. B., Warren, Ohio. Rail-joint. No. 915,998; Mar. 23; Sp. p. 4812; Gaz. vol. 140; p. 851.

*Alphabetical list of patentees—Continued.*

- Neal, H. W., *et al.* (See Neal, H. W., assignor.)  
 Neal, H. W., assignor to H. W. Neal, W. Harmon, and C. E. Hall, Indianapolis, Ind. Safe. No. 915,999; Mar. 23; Sp. p. 4814; Gaz. vol. 140; p. 851.  
 Neal, J. N., *et al.* (See Warner, D., assignor.)  
 Neal, O. J., and H. B. Gillette, Echo, Oreg. Churn. No. 926,760; July 6; Sp. p. 110; Gaz. vol. 144; p. 18.  
 Neal Tent & Awning Co. (See Bond, M. L., assignor.)  
 Neale, D., Fort Calhoun, Nebr. Anticipatory riprap-dikes. No. 932,565; Aug. 31; Sp. p. 6205; Gaz. vol. 145; p. 1075.  
 Neall, N. J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical discharge apparatus. No. 936,656; Oct. 12; Sp. p. 2233; Gaz. vol. 147; p. 370.  
 Neall, W. R. (See Heales and Neall.)  
 Nearing, G. H., assignor to North & Judd Manufacturing Company, New Britain, Conn. Buckle. No. 928,212; July 13; Sp. p. 3121; Gaz. vol. 144; p. 531.  
 Neasham, W., New York, N. Y. Printing-plate holder. No. 913,035; Feb. 23; Sp. p. 4146; Gaz. vol. 139; p. 753.  
 Nebeling, E. R. (See Rommel and Nebeling.)  
 Nebler, H., Stamford, Conn. Sash-lock. No. 939,854; Nov. 9; Sp. p. 3086; Gaz. vol. 148; p. 510.  
 Neeb, J. E., Los Angeles, Cal. Shipping-crate. No. 934,337; Sept. 14; Sp. p. 2763; Gaz. vol. 146; p. 459.  
 Neebes, W. J., Jr., Chicago, Ill. Knockdown box. No. 938,887; Nov. 2; Sp. p. 949; Gaz. vol. 148; p. 151.  
 Needs, A. G., Chester, Pa., assignor of one-half to U. G. Ford, Haddon Heights, N. J. Hair-pin. No. 910,715; Jan. 26; Sp. p. 4673; Gaz. vol. 138; p. 849.  
 Needs, J., Fakenham, England. Reinforced concrete post. No. 910,843; Jan. 26; Sp. p. 4932; Gaz. vol. 138; p. 890.  
 Needs, J., Fakenham, England. Reinforced concrete supporting-beam. No. 910,947; Jan. 26; Sp. p. 5127; Gaz. vol. 138; p. 924.  
 Neef, J. F. (See Richardson and Neef.)  
 Neefs, W. J., Dusseldorf, Germany. Cuff-holder. No. 934,091; Sept. 14; Sp. p. 2290; Gaz. vol. 146; p. 376.  
 Neel-Armstrong Co. *et al.* (See Neel, W. D., assignor.)  
 Neel, T., W. E. Williams, and F. W. Owsney, Irondale, Ohio. Mail-catching device. No. 917,108; Apr. 6; Sp. p. 295; Gaz. vol. 141; p. 54.  
 Neel, T., W. E. Williams, and F. W. Owsney, Irondale, Ohio. Lock. No. 917,109; Apr. 6; Sp. p. 297; Gaz. vol. 141; p. 54.  
 Neel, W. C., assignor of one-half to M. A. Mosher, Lakin, Kans. Railway-tie and rail-clamp. No. 932,890; Aug. 31; Sp. p. 6889; Gaz. vol. 145; p. 1183.  
 Neel, W. D., Chicago, Ill., assignor of one-half to Oxoline Company, Jersey City, N. J., and one-half to Neel-Armstrong Co. Producing a medicament. No. 925,590; June 22; Sp. p. 5219; Gaz. vol. 143; p. 918.  
 Neeld, W. L., Seattle, Wash. Rule. No. 942,583; Dec. 7; Sp. p. 1151; Gaz. vol. 149; p. 187.  
 Neelen, E. B. (See Swimmer and Neelen.)  
 Neelmeier, W. (See Jansen and Neelmeier.)  
 Neelmeier, W. (See Jordan and Neelmeier.)  
 Neely Nut & Bolt Company. (See Lackner, F., assignor.)  
 Neely, R. A., and E. L. Holland, Searcy, Ark. Cover-hinge for handled vessels. No. 924,922; June 15; Sp. p. 3919; Gaz. vol. 143; p. 669.  
 Neely, S. S., Baltimore, Md. Darning outfit. No. 920,620; May 4; Sp. p. 1064; Gaz. vol. 142; p. 173.  
 Neemes, N. C. (See Rouse and Neemes.)  
 Neenan, M. E., New York, N. Y. Elevator. No. 912,256; Feb. 9; Sp. p. 2492; Gaz. vol. 139; p. 430.  
 Neenup, P., assignor to Buflum Tool Company, Louisiana, Mo. Trowel. No. 938,070; Oct. 26; Sp. p. 5158; Gaz. vol. 147; p. 886.  
 Neff, H. J., Stamford, Ill. Attachment for corn-cultivators. No. 928,146; July 13; Sp. p. 2968; Gaz. vol. 144; p. 508.  
 Neff, J. S., West Hoboken, N. J. Pneumatic wheel-tire. No. 932,310; Aug. 24; Sp. p. 5675; Gaz. vol. 145; p. 968.  
 Neff, J. Jr., Fulton, Kans. Pole-support. No. 932,891; Aug. 31; Sp. p. 6891; Gaz. vol. 145; p. 1183.  
 Neff, P. D., Cole, and E. L. Ebersole, assignors to Arctic Ice Machine Company, Canton, Ohio. Piston for ammonia-compressors. No. 924,098; June 8; Sp. p. 2152; Gaz. vol. 143; p. 359.  
 Neher, N. N., Los Angeles, Cal. Vending-machine. No. 913,151; Feb. 23; Sp. p. 4386; Gaz. vol. 139; p. 792.  
 Nehls, W. F. F., Lake City, Minn. Hand-barrow. No. 937,632; Oct. 19; Sp. p. 4238; Gaz. vol. 147; p. 722.  
 Nehring, W., assignor to Anchor Supply Company, Evansville, Ind. Awning-operating device. No. 913,424; Feb. 23; Sp. p. 4944; Gaz. vol. 139; p. 885.  
 Neiburger, E., Indianapolis, Ind. Adjustable chimney-hood. No. 920,621; May 4; Sp. p. 1066; Gaz. vol. 142; p. 173.  
 Neider, F. A., and W. Hafer, assignors to F. A. Neider Company, Augusta, Ky. Making carriage-curtain knobs. No. 921,147; May 11; Sp. p. 2145; Gaz. vol. 142; p. 377.  
 Neidhart, K., Jersey City, N. J., assignor of one-half to S. Graff, New York, N. Y. Washable cap. No. 910,716; Jan. 26; Sp. p. 4674; Gaz. vol. 138; p. 850.  
 Neidl, W. J., New Britain, Conn. Level. No. 937,633; Oct. 19; Sp. p. 4239; Gaz. vol. 147; p. 723.  
 Neil, L. P. (See Southwick, J. I., assignor.)  
 Neil, P. (See Bang and Neil.)  
 Neil, R. N., Cozad, Nebr. Concrete-mold. No. 929,470; July 27; Sp. p. 5729; Gaz. vol. 144; p. 1006.  
 Neill, G. D. (See Sinclair and Neill.)  
 Neill, J., Sheffield, England. Tool for cutting abrasive files. No. 943,953; Dec. 21; Sp. p. 4129; Gaz. vol. 149; p. 716.  
 Neill, T. A., Mannington, W. Va. Oil-well derrick. No. 933,386; Sept. 7; Sp. p. 804; Gaz. vol. 146; p. 124.  
 Neill, T. R., *et al.* (See Hullett, D. I., assignor.)  
 Neill, W. A., assignor to Allis-Chalmers Company, Milwaukee, Wis. Ore-dehydrating machine. No. 915,371; Mar. 16; Sp. p. 3530; Gaz. vol. 140; p. 616.  
 Neill, W. A., assignor to Allis-Chalmers Company, Milwaukee, Wis. Agitator. No. 915,372; Mar. 16; Sp. p. 3532; Gaz. vol. 140; p. 617.  
 Neilson, J. H. L., Hanover-Linden, Germany. Regenerating rubber waste of all kinds. No. 921,148; May 11; Sp. p. 2146; Gaz. vol. 142; p. 378.  
 Neilson R. A. *et al.* (See Pianko, M., assignor.)  
 Neilson, W., Pittsburg, Pa. Piling. No. 912,020; Feb. 9; Sp. p. 2042; Gaz. vol. 139; p. 356.  
 Neilson, W., Pittsburg, Pa. Piling. No. 912,021; Feb. 9; Sp. p. 2044; Gaz. vol. 139; p. 356.  
 Neilson, W. F., *et al.* (See Pianko, M., assignor.)  
 Neirath, L. F. (See Fuhrmann, F., assignor.)  
 Neiswanger, E. W. (See Stewart and Neiswanger.)  
 Nell, J. A., Walden, N. Y. Pocket-knife. No. 943,990; Dec. 21; Sp. p. 4217; Gaz. vol. 149; p. 728.  
 Nellen, F., Essen-on-the-Ruhr, Germany. Prop for mines. No. 931,466; Aug. 17; Sp. p. 3894; Gaz. vol. 145; p. 671.  
 Neller, A. H., Fairfield, Iowa. Overhead track. No. 941,805; Nov. 30; Sp. p. 7388; Gaz. vol. 148; p. 1243.  
 Neller, A. H., and W. Loudon, Fairfield, Iowa. Supporting device for overhead tracks. No. 939,618; Nov. 9; Sp. p. 2594; Gaz. vol. 148; p. 427.  
 Nellis, C. E., assignor to J. W. Rapp, New York, N. Y. Sheet-metal door, wainscoting, &c. No. 933,328; Sept. 7; Sp. p. 671; Gaz. vol. 146; p. 103.  
 Nelson, J. F., Milwaukee, Wis. Slicing-machine. No. 910,219; Jan. 19; Sp. p. 3617; Gaz. vol. 138; p. 657.  
 Nelson, A., St. Paul, Minn. Annunciator for checkers or similar games. No. 927,583; July 13; Sp. p. 1801; Gaz. vol. 144; p. 321.  
 Nelson, A. C., Nelson township, Barnes county, N. D. Agricultural implement. No. 930,784; Aug. 10; Sp. p. 2385; Gaz. vol. 145; p. 412.  
 Nelson, A. C. and J. Jr., Litchfield, Minn. Match-box. No. 929,782; Aug. 3; Sp. p. 319; Gaz. vol. 145; p. 54.  
 Nelson, A. C., assignor of one-half to A. G. McKee, Cleveland, Ohio. Regenerative stove. No. 925,827; June 22; Sp. p. 5754; Gaz. vol. 143; p. 996.  
 Nelson, A. F., Renton, Wash. Artificial hand. No. 908,881; Jan. 5; Sp. p. 928; Gaz. vol. 138; p. 148.  
 Nelson, C., assignor to S. Sternau & Co., New York, N. Y. Coupling. No. 924,368; June 8; Sp. p. 2771; Gaz. vol. 143; p. 452.  
 Nelson, C., Brooklyn, assignor to S. Sternau & Co., New York, N. Y. Coffee-machine. No. 938,605; Nov. 2; Sp. p. 372; Gaz. vol. 148; p. 55.  
 Nelson, C. C., Lafayette, Minn. Quack-grass destroyer. No. 922,178; May 18; Sp. p. 4277; Gaz. vol. 142; p. 746.  
 Nelson, C. J., and O. Ostlin, Maywood, Ill., assignors to American Can Company, New York, N. Y. Stationary can-double-seaming machine. No. 923,687; June 1; Sp. p. 1263; Gaz. vol. 143; p. 196.  
 Nelson, C. J., and O. Ostlin, Maywood, Ill., assignors to American Can Company, New York, N. Y. Double-seaming machine. No. 923,688; June 1; Sp. p. 1265; Gaz. vol. 143; p. 197.  
 Nelson, C. L., Seattle, Wash. Calculating-machine. No. 933,486; Sept. 7; Sp. p. 1079; Gaz. vol. 146; p. 156.  
 Nelson, C. R., Chicago, Ill. Loose-leaf binder. No. 914,063; Mar. 2; Sp. p. 878; Gaz. vol. 140; p. 136.  
 Nelson, C. R., Chicago, Ill. Temporary binder. No. 920,985; May 11; Sp. p. 1813; Gaz. vol. 142; p. 322.  
 Nelson, C. R., Chicago, Ill., assignor to Nelson Corporation. Loose-leaf binder. No. 924,099; June 8; Sp. p. 2154; Gaz. vol. 143; p. 360.  
 Nelson Corporation. (See Nelson, C. R., assignor.)  
 Nelson, B., Jersey City, N. J. Nozzle for hose. No. 927,376; July 6; Sp. p. 1345; Gaz. vol. 144; p. 223.  
 Nelson, E. D., and W. L. Brown, Altoona, Pa. Hose-pipe-coupling end connection. No. 922,805; May 25; Sp. p. 5574; Gaz. vol. 142; p. 979.



*Alphabetical list of patentees—Continued.*

- Nelson, F. A., assignor to American Automatic Fender Company, Minneapolis, Minn. Car-fender. No. 910,948; Jan. 26; Sp. p. 5129; Gaz. vol. 138; p. 924.
- Nelson, F. A., assignor to American Automatic Fender Company, Minneapolis, Minn. Fluid-pressure-controlling valve. No. 917,345; Apr. 6; Sp. p. 798; Gaz. vol. 141; p. 136.
- Nelson, F. A., assignor to American Automatic Fender Company, Minneapolis, Minn. Car-fender. No. 919,451; Apr. 27; Sp. p. 5349; Gaz. vol. 141; p. 924.
- Nelson, F. E., Los Angeles, Cal. Atomizer. No. 910,144; Jan. 19; Sp. p. 3443; Gaz. vol. 138; p. 631.
- Nelson, F. E., Los Angeles, Cal. Hot-air furnace. No. 924,815; June 15; Sp. p. 3697; Gaz. vol. 143; p. 633.
- Nelson, F. and J. F., assignors to Forest City Knitting Company, Rockford, Ill. Looping-machine for hosiery. No. 928,787; July 20; Sp. p. 4311; Gaz. vol. 144; p. 752.
- Nelson, F. O., Fairfield, Iowa. Trough. No. 922,317; May 18; Sp. p. 4551; Gaz. vol. 142; p. 791.
- Nelson, H. R., *et al.* (See McPhail, J., assignor.)
- Nelson, I. R. (See Knobbs, C. H., assignor.)
- Nelson, J., Jr. (See Nelson, A. C. and J., Jr.)
- Nelson, J. D., Cincinnati, Ohio. Electrical signaling apparatus. No. 920,378; May 4; Sp. p. 589; Gaz. vol. 142; p. 94.
- Nelson, J. F., Hammonont, Cal. Hame-hook-adjusting device. No. 912,877; Feb. 16; Sp. p. 3841; Gaz. vol. 139; p. 677.
- Nelson, J. I. E., Bettles, Alaska. Concentrator and amalgamator. No. 942,584; Dec. 7; Sp. p. 1153; Gaz. vol. 149; p. 187.
- Nelson, J. M., Jr., Sherwood, Md. Preserving wood. No. 937,008; Oct. 12; Sp. p. 2915; Gaz. vol. 147; p. 486.
- Nelson, J. W., New York, N. Y. Hydraulic pump. No. 909,647; Jan. 12; Sp. p. 2445; Gaz. vol. 138; p. 434.
- Nelson, J. W., New York, N. Y. Hydraulic pump and pressure controlling device. No. 914,162; Mar. 2; Sp. p. 1072; Gaz. vol. 140; p. 171.
- Nelson, J. W., New York, N. Y. Hydraulic-pressure generating and controlling device. No. 914,163; Mar. 2; Sp. p. 1075; Gaz. vol. 140; p. 171.
- Nelson, J. W., New York, N. Y. Pressure-controlling means for hydraulic pumps. No. 914,164; Mar. 2; Sp. p. 1079; Gaz. vol. 140; p. 171.
- Nelson, J. W., New York, N. Y. Device for controlling hydraulic pressure. No. 914,165; Mar. 2; Sp. p. 1082; Gaz. vol. 140; p. 171.
- Nelson, J. W., New York, N. Y. Hydraulic-pressure-controlling means. No. 914,166; Mar. 2; Sp. p. 1085; Gaz. vol. 140; p. 172.
- Nelson, J. W., New York, N. Y. Pressure-controlling device for hydraulic pumps. No. 914,167; Mar. 2; Sp. p. 1089; Gaz. vol. 140; p. 172.
- Nelson, J. W., New York, N. Y. Device for controlling hydraulic-pressure generation. No. 914,168; Mar. 2; Sp. p. 1095; Gaz. vol. 140; p. 173.
- Nelson, J. W., New York, N. Y. Device for generating and applying variable hydraulic pressure. No. 914,169; Mar. 2; Sp. p. 1100; Gaz. vol. 140; p. 173.
- Nelson, J. W., New York, N. Y. Apparatus for generating, controlling, and applying hydraulic pressure. No. 914,170; Mar. 2; Sp. p. 1107; Gaz. vol. 140; p. 173.
- Nelson, J. W., New York, N. Y. Apparatus for generating and applying hydraulic pressure. No. 936,020; Oct. 5; Sp. p. 887; Gaz. vol. 147; p. 134.
- Nelson, J. W., New York, N. Y. Hydraulic-pressure generating and applying device. No. 939,535; Nov. 9; Sp. p. 2401; Gaz. vol. 148; p. 398.
- Nelson, J. W., New York, N. Y. Hydraulic-pressure generating, controlling, and applying apparatus. No. 939,737; Nov. 9; Sp. p. 2845; Gaz. vol. 148; p. 469.
- Nelson, J. W., New York, N. Y. Hydraulic pressure generating, controlling, and applying device. No. 941,167; Nov. 23; Sp. p. 6013; Gaz. vol. 148; p. 1010.
- Nelson, J. W., New York, N. Y. Hydraulic pressure generating and applying apparatus. No. 942,736; Dec. 7; Sp. p. 1456; Gaz. vol. 149; p. 238.
- Nelson, L., Chicago, Ill. Culinary device. No. 928,397; July 20; Sp. p. 3538; Gaz. vol. 144; p. 625.
- Nelson, L., Rockford, Ill. Bookcase. No. 941,168; Nov. 23; Sp. p. 6017; Gaz. vol. 148; p. 1011.
- Nelson, L. H. (See Ronconi, R., assignor.) (Reissue.)
- Nelson, L. M., Douglas, Wyo. Tire. No. 911,257; Feb. 2; Sp. p. 467; Gaz. vol. 139; p. 80.
- Nelson, L. M., Douglas, Wyo. Proportion-dividers. No. 930,408; Aug. 10; Sp. p. 1584; Gaz. vol. 145; p. 287.
- Nelson, L. M., Douglas, Wyo. Windmill-governor. No. 934,689; Sept. 21; Sp. p. 3457; Gaz. vol. 146; p. 602.
- Nelson, L. M., Douglas, Wyo. Tire. No. 935,396; Sept. 28; Sp. p. 4868; Gaz. vol. 146; p. 861.
- Nelson, L. M., Douglas, Wyo. Tire-fastener. No. 939,619; Nov. 9; Sp. p. 2596; Gaz. vol. 148; p. 427.
- Nelson, L. R., Peoria, Ill. Nozzle. No. 926,435; June 29; Sp. p. 6991; Gaz. vol. 143; p. 1231.
- Nelson, M., New York, N. Y. Mirror attachment for windows. No. 935,922; Oct. 5; Sp. p. 692; Gaz. vol. 147; p. 101.
- Nelson, M., assignor of one-half to F. W. Pedersen, Canton, Ohio. Sewer-pipe coupling and connection. No. 913,036; Feb. 23; Sp. p. 4147; Gaz. vol. 139; p. 753.
- Nelson, N., *et al.* (See Logar, M., assignor.)
- Nelson, N., Waukegan, Ill. Garment-presser. No. 917,346; Apr. 6; Sp. p. 799; Gaz. vol. 141; p. 136.
- Nelson, N. B. (See Doane, R. A., assignor.)
- Nelson, N. D., New York, N. Y. Coin-controlling mechanism for vending-machines. No. 919,749; Apr. 27; Sp. p. 5968; Gaz. vol. 141; p. 1026.
- Nelson, N. D., New York, N. Y. Support for neckties. No. 938,687; Nov. 2; Sp. p. 534; Gaz. vol. 148; p. 82.
- Nelson, N. J., Red Wing, Minn. Apparatus for effecting the interchange of mail, express, and train orders, despatches, &c. No. 941,461; Nov. 30; Sp. p. 6657; Gaz. vol. 148; p. 1129.
- Nelson, N. T., Grand Junction, Colo. Fruit-box press. No. 933,660; Sept. 7; Sp. p. 1415; Gaz. vol. 146; p. 212.
- Nelson, O. F., South Sudbury, Mass. Stump-pulling and stone-lifting device. No. 910,567; Jan. 26; Sp. p. 4383; Gaz. vol. 138; p. 803.
- Nelson, O. H., assignor of one-fourth to A. C. Cornelison, Highland Falls, N. Y. Storage-battery stand and means for raising and supporting plates, &c. No. 914,301; Mar. 2; Sp. p. 1375; Gaz. vol. 140; p. 213.
- Nelson, O. N., *et al.* (See Edman, J., assignor.)
- Nelson, O. T., *et al.* (See Jacob, R. F., assignor.)
- Nelson, P., Fortuna, Cal. Combined bread-cabinet and cutting-knife. No. 914,866; Mar. 9; Sp. p. 2550; Gaz. vol. 140; p. 426.
- Nelson, R. G. and V. E., Joliet, Ill. Gas-engine. No. 941,169; Nov. 23; Sp. p. 6018; Gaz. vol. 148; p. 1011.
- Nelson, R. H., Dixon, Ill. Water-supply system. No. 920,774; May 4; Sp. p. 1371; Gaz. vol. 142; p. 222.
- Nelson, R. J. (See Hubbard, C. N., assignor.)
- Nelson, S., Chicago, Ill. Brush-holder. No. 936,150; Oct. 5; Sp. p. 1158; Gaz. vol. 147; p. 176.
- Nelson, V. E. (See Nelson, R. G. and V. E.)
- Nelson, W. A., Jr., and R. L. Appling, Memphis, Tenn. Concrete post. No. 933,329; Sept. 7; Sp. p. 673; Gaz. vol. 146; p. 104.
- Nelson, W. E., San Angelo, Tex. Apparatus for molding hollow concrete walls. No. 943,991; Dec. 21; Sp. p. 4219; Gaz. vol. 149; p. 728.
- Nelson, W. J., Mendota, Ill. Ironing-board. No. 912,319; Feb. 16; Sp. p. 2674; Gaz. vol. 139; p. 490.
- Nelson, W. L. (See Johnston, L. E., assignor.)
- Nelson, W. T., Greenbush, Minn. Penholder. No. 938,330; Oct. 26; Sp. p. 5725; Gaz. vol. 147; p. 975.
- Németh, D., New York, N. Y. Machine for shaping and cutting dough. No. 934,749; Sept. 21; Sp. p. 3563; Gaz. vol. 146; p. 621.
- Nemeth, L., assignor of one-half to J. Svaltek, Johnstown, Pa. Papering-machine. No. 934,931; Sept. 21; Sp. p. 3934; Gaz. vol. 146; p. 682.
- Némethy, E., Arad, Austria-Hungary. Apparatus for washing vegetable fibers for spinning. No. 934,564; Sept. 21; Sp. p. 3201; Gaz. vol. 146; p. 558.
- Nemsey, W., Brooklyn, N. Y. Paper receptacle. No. 944,145; Dec. 21; Sp. p. 4538; Gaz. vol. 149; p. 779.
- Nenninger, O. A., El Paso, Tex. Coffee-urn. No. 914,302; Mar. 2; Sp. p. 1378; Gaz. vol. 140; p. 214.
- Neptune Meter Company. (See Dilts, H. I., assignor.)
- Neptune Meter Company. (See Gumprecht, W. L., assignor.)
- Nero, A. S., Bottineau, N. D. Washing-machine. No. 934,458; Sept. 21; Sp. p. 3010; Gaz. vol. 146; p. 524.
- Nesbit, C., Tekamah, Nebr. Lace-holder. No. 912,602; Feb. 16; Sp. p. 3266; Gaz. vol. 139; p. 586.
- Nesbitt, C. B., Zelenople, assignor to Iron City Sanitary Manufacturing Company, Pittsburg, Pa. Dredger for pulverulent material. No. 924,491; June 8; Sp. p. 3009; Gaz. vol. 143; p. 491.
- Nesbitt, J., Fort Smith, Ark. Folding car-step. No. 929,471; July 27; Sp. p. 5731; Gaz. vol. 144; p. 1006.
- Nesbitt, S. J., Sr., Elizabeth, N. J. Brake for roller-skates. No. 939,536; Nov. 9; Sp. p. 2406; Gaz. vol. 148; p. 399.
- Nesdall, J. T., New York, N. Y., assignor, by mesne assignments, to Threadless Lock-Nut and Bolt Company of the United States. Securing and safety device for railway-rail and other joints. No. 934,982; Sept. 21; Sp. p. 4038; Gaz. vol. 146; p. 701.
- Nesmith, J. W., assignor to Colorado Iron Works Company, Denver, Colo. Blast-furnace smelting. No. 910,082; Jan. 19; Sp. p. 3321; Gaz. vol. 138; p. 611.
- Nesmith, J. W., assignor to Colorado Iron Works Company, Denver, Colo. Blast-furnace smelting. No. 910,480; Jan. 19; Sp. p. 4198; Gaz. vol. 138; p. 750.
- Ness, H. S., *et al.* (See Harvey, F. R., assignor.)
- Nessett, R. (See Flanigan, D. C., assignor.)
- Nessler, R., East Oakland, Cal. Explosive-engine. No. 923,069; May 25; Sp. p. 6138; Gaz. vol. 142; p. 1065.
- Neste, J. P., Lake Mills, Iowa. Straw-rack for grain-separators. No. 930,785; Aug. 10; Sp. p. 2387; Gaz. vol. 145; p. 413.
- Nester D. N., Chicago, Ill. Automobile-lever lock. No. 929,783; Aug. 3; Sp. p. 321; Gaz. vol. 145; p. 54.

*Alphabetical list of patentees—Continued.*

- Nester, M., Kansas City, Mo. Turn-table for bottle-molds. No. 920,622; May 4; Sp. p. 1068; Gaz. vol. 142; p. 173.
- Nestestu, H., Cottage Grove, Wis. Independent-tooth-bar harrow. No. 929,160; July 27; Sp. p. 5091; Gaz. vol. 144; p. 904.
- Nestor Manufacturing Company. (See Cumner and Ostrander, assignors.)
- Nestor, P. C., Germantown, Pa. Dispensing apparatus. No. 912,603; Feb. 16; Sp. p. 3267; Gaz. vol. 139; p. 588.
- Nethercut, E. S., Evanston, Ill. Railway-rail structure. No. 940,818; Nov. 23; Sp. p. 5274; Gaz. vol. 148; p. 894.
- Netherton, S. W., Roberts, Ill. Float-controlled switch for filling tanks. No. 936,183; Mar. 23; Sp. p. 5146; Gaz. vol. 140; p. 911.
- Netter, R. (See Clark and Netter.)
- Netter, R., New York, N. Y., assignor, by mesne assignments, to General Pump Appliance Company. Device for refacing valve-seats. No. 924,369; June 8; Sp. p. 2773; Gaz. vol. 143; p. 452.
- Netz, H. O., Long Island City, N. Y. Bathing-suit. No. 936,021; Oct. 5; Sp. p. 893; Gaz. vol. 147; p. 134.
- Neubauer, C. E., assignor of one-half to A. Newberg, Hibbing, Minn. Railway-rail. No. 934,338; Sept. 14; Sp. p. 2764; Gaz. vol. 146; p. 459.
- Neuber, I. G., Detroit, Mich. Explosive-engine. No. 929,622; July 27; Sp. p. 6029; Gaz. vol. 144; p. 1055.
- Neuberg, C., Charlottenburg, Germany. Producing digestible substances from keratin. No. 926,999; July 6; Sp. p. 599; Gaz. vol. 144; p. 99.
- Neubert, A., assignor to A. Schrader's Son, Incorporated, New York, N. Y. Diving-gear or the like. No. 908,690; Jan. 5; Sp. p. 548; Gaz. vol. 138; p. 85.
- Neubert, M., and R. P. Jones, Glen Jean, W. Va. Insulator. No. 930,609; Aug. 10; Sp. p. 2029; Gaz. vol. 145; p. 356.
- Neubert, W. P., Swissvale borough, assignor to Union Switch & Signal Company, Swissvale, Pa. Electric switch-lock. No. 914,447; Mar. 9; Sp. p. 1679; Gaz. vol. 140; p. 287.
- Neuberth, G. E., Newark, N. J. Connector for conduits for electric wires. No. 920,169; May 4; Sp. p. 148; Gaz. vol. 142; p. 23.
- Neuberth, G. E., Newark, N. J., assignor to Universal Caster & Foundry Company. Caster for furniture. No. 934,004; Sept. 14; Sp. p. 2110; Gaz. vol. 146; p. 348.
- Neuberth, G. E., Newark, N. J., assignor to Universal Caster & Foundry Company. Leg-mount caster. No. 934,005; Sept. 14; Sp. p. 2111; Gaz. vol. 146; p. 348.
- Neudeck, A. W., assignor of one-half to A. F. Reitz, Kansas City, Kans. Dust-guard for journal-boxes. No. 917,963; Apr. 13; Sp. p. 2019; Gaz. vol. 141; p. 367.
- Neufville, P., Vinings, Ga. Plow attachment. No. 944,206; Dec. 21; Sp. p. 4654; Gaz. vol. 149; p. 797.
- Neugebauer, E., Wiesbaden, Germany. Siphon. No. 923,879; June 8; Sp. p. 1747; Gaz. vol. 143; p. 291.
- Neugebauer, O., Hanover, assignor to Siemens & Halske A. G., Berlin, Germany. Dental instrument. No. 940,351; Nov. 16; Sp. p. 4227; Gaz. vol. 148; p. 713.
- Neumann, A., St. Louis, assignor of one-half to D. F. Behrens, Clayton, Mo. Air-compressor. No. 936,932; Oct. 12; Sp. p. 2762; Gaz. vol. 147; p. 461.
- Neumann, A., St. Louis, assignor of one-half to D. F. Behrens, Clayton, Mo. Rotary engine. No. 936,933; Oct. 12; Sp. p. 2763; Gaz. vol. 147; p. 462.
- Neumann, A. B. (See Patterson and Neumann.)
- Neumann, B., and P. N. Gammelgaard, assignors to Firm of J. Heitmann's Nachf, Hamburg, Germany. Card-vending apparatus. No. 919,927; Apr. 27; Sp. p. 6351; Gaz. vol. 141; p. 1086.
- Neumann, F., Nuremberg, Germany. Centrifugal pump. No. 931,636; Aug. 17; Sp. p. 4205; Gaz. vol. 145; p. 721.
- Neumann, H., Berg Gladbach, Germany. Apparatus for generating hot compressed gas. No. 928,324; July 20; Sp. p. 3410; Gaz. vol. 144; p. 600.
- Neumann, H. A., New York, N. Y. Trousers-crease retainer. No. 940,712; Nov. 23; Sp. p. 5027; Gaz. vol. 148; p. 859.
- Neumann, R. (See Porges and Neumann.)
- Neumann, R. C. G., and S. D. Dunham, Seattle, Wash. Baling-press. No. 909,648; Jan. 12; Sp. p. 2453; Gaz. vol. 138; p. 434.
- Neumann, R. G., assignor to Firm of Kakao-Compagnie Theodor Reichardt, Gesellschaft mit beschränkter Haftung, Wandsbek, near Hamburg, Germany. Sifter for pulverulent material. No. 911,258; Feb. 2; Sp. p. 469; Gaz. vol. 139; p. 81.
- Neumann, T. L., assignor to Dayton Paper Novelty Company, Dayton, Ohio. Paper box. No. 917,347; Apr. 6; Sp. p. 801; Gaz. vol. 141; p. 137.
- Neumeister, A. G., Appleton, Wis. Window-lock. No. 919,750; Apr. 27; Sp. p. 5972; Gaz. vol. 141; p. 1026.
- Neumeister, E., Lahr, Germany. Binding device. No. 925,017; June 15; Sp. p. 4123; Gaz. vol. 148; p. 702.
- Neuner, M., Charlottenburg, Germany, assignor to American Thermos Bottle Company, Brooklyn, N. Y. Double-walled vessel. No. 909,203; Jan. 12; Sp. p. 1594; Gaz. vol. 138; p. 286.
- Neuner, W., Junction City, Kans. Washing-machine. No. 927,584; July 13; Sp. p. 1803; Gaz. vol. 144; p. 321.
- Neureuther, A. H., Peru, Ill. Weighing-scale. No. 941,725; Nov. 30; Sp. p. 7211; Gaz. vol. 143; p. 1216.
- Neureuther, A. H., Peru, assignor to Western Clock Manufacturing Company, La Salle, Ill. Automatic pinion-cutting machine. No. 937,259; Oct. 19; Sp. p. 3467; Gaz. vol. 147; p. 599.
- Neus, A., Winslow, Ill. Railway-rail support. No. 938,166; Oct. 26; Sp. p. 5382; Gaz. vol. 147; p. 918.
- Neuteboom, B. B. (See Freeman and Neuteboom.)
- Neuveille, F. V., New Rochelle, N. Y. Knockdown crate. No. 944,146; Dec. 21; Sp. p. 4539; Gaz. vol. 149; p. 779.
- Nevels, A. L., assignor, by mesne assignments, to Nevels Manufacturing Company, Hartford, Conn. Coin-controlled bag-punching machine. No. 933,330; Sept. 7; Sp. p. 674; Gaz. vol. 146; p. 104.
- Nevels Manufacturing Company. (See Nevels, A. L., assignor.)
- Neven, F. A., Denver, Colo. Vaginal syringe. No. 930,312; Aug. 3; Sp. p. 1391; Gaz. vol. 145; p. 231.
- Neville, A. G., Wellsburg, W. Va. Automobile scenic railway. No. 924,182; June 8; Sp. p. 2371; Gaz. vol. 143; p. 389.
- Neville, A. G., Wellsburg, W. Va. Automobile scenic railway. No. 933,914; Sept. 14; Sp. p. 1946; Gaz. vol. 146; p. 320.
- Neville, C. S., Chicago, Ill. Sign. No. 914,064; Mar. 2; Sp. p. 880; Gaz. vol. 140; p. 137.
- Neville, R. O., Goshen, Ind. Swing. No. 920,379; May 4; Sp. p. 593; Gaz. vol. 142; p. 94.
- Nevin, T., Lowell, assignor to Draper Company, Hopedale, Mass. Pick-ball cover for looms. No. 912,403; Feb. 16; Sp. p. 2853; Gaz. vol. 139; p. 518.
- Nevin, T., Lowell, assignor to Draper Company, Hopedale, Mass. Take-up mechanism for looms. No. 913,908; Mar. 2; Sp. p. 511; Gaz. vol. 140; p. 83.
- Nevin, T., Lowell, assignor to Draper Company, Hopedale, Mass. Picker-stick check for looms. No. 914,360; Mar. 2; Sp. p. 1511; Gaz. vol. 140; p. 233.
- Nevin, T., Lowell, assignor to Draper Company, Hopedale, Mass. Take-up mechanism for looms. (Reissue.) No. 12,944; Apr. 20; Sp. p. 5019; Gaz. vol. 141; p. 843.
- Nevins, P. M., Seattle, Wash. Flush-valve seat for flushing-tanks. No. 917,110; Apr. 6; Sp. p. 299; Gaz. vol. 141; p. 55.
- Nevins, P. M., Seattle, Wash. Closet-tank hanger. No. 919,204; Apr. 20; Sp. p. 4626; Gaz. vol. 141; p. 807.
- New Departure Manufacturing Company. (See Rockwell, A. F., assignor.)
- New Departure Manufacturing Company. (See Schmelz, C. F., assignor.)
- New England Enameling Co. (See Bauer and Brown, assignors.)
- New England Enameling Company. (See Bauer, I., assignor.)
- New England Enameling Company. (See Burr, F. P., assignor.)
- New England Fuel Company. (See Moulton, O. E., assignor.)
- New England Roller Grate Company. (See Baush, W. H., assignor.)
- New England Trolley Wheel Company. (See Tetlow, L. J., assignor.)
- New England Watch Co. (See Hart, E., assignor.)
- New Haven Clock Co. (See Porter, W. E., assignor.)
- New Haven Clock Company. (See Hurley and Slager, assignors.)
- New Haven Clock Company, trustee. (See Probasco, W. M., assignor.)
- New Home Sewing Machine Company. (See Bowers, E. L., assignor.)
- New, J. T. (See Wood and New.)
- New Jersey Foundry and Machine Company. (See Hunt, F., assignor.)
- New Jersey Patent Company. (See Aiken, E. L., assignor.)
- New Jersey Patent Company. (See Aylesworth, J. W., assignor.)
- New Jersey Patent Company. (See Edison, T. A., assignor.)
- New Jersey Patent Company. (See Ott, J. F., assignor.)
- New Jersey Patent Company. (See Pierman, A. N., assignor.)
- New Jersey Patent Company. (See Wangemann, A. T. E., assignor.)
- New Jersey Patent Company. (See Weber, P., assignor.)
- New Jersey Patent Company. (See Wolke, H., assignor.)
- New Jersey Wire Cloth Company. (See Himmelwright, A. L. A., assignor.)
- New Jersey Wire Cloth Company. (See Orr, W., assignor.)
- New Jersey Zinc Company. (See Tucker A., assignor.)
- New Phonopore Telephone Company. (See Nicholson, A. H., assignor.)



*Alphabetical list of patentees—Continued.*

- "New Way" Motor Company. (See Cramer, H. M., assignor.)  
 New Winona Manufacturing Company. (See McLaughlin, C. N., assignor.)  
 New York Adding Typewriter Company. (See Cram, E. B., assignor.)  
 New York Adding Typewriter Company. (See Kingsbury, J. G., assignor.)  
 New York Air Brake Company. (See Bickel, H. F., assignor.)  
 New York Air Brake Company. (See Minnier, B. J., assignor.)  
 New York Cash Sales Book Company. (See Liebman, S., assignor.)  
 New York Couch Bed Company. (See Sishower, G. F., assignor.)  
 New York Gear Works. (See Ball, F. J., assignor.)  
 New York Improved Meter Company. (See Drew, W. T., assignor.)  
 New York Scaffolding Company. (See Chesebro, D. P., assignor.)  
 New York Standard Watch Company. (See Nutting and Smith, assignors.)  
 Newark Spring Mattress Company. (See Odell, M. H., assignor.)  
 Newbaker, W. L., Wilksburg, assignor of twenty-five one-hundredths to A. S. Duncan, Wilmerding, and fifteen one-hundredths to C. S. Henderson, Edgewood Park, Pa. Lubricator. No. 928,686; July 20; Sp. p. 4130; Gaz. vol. 144; p. 719.  
 Newberg, A. (See Neubauer, C. E., assignor.)  
 Newberg, E. (See Johnson and Newberg.)  
 Newberry, J. E., Decatur, Ga. Plow-handle adjustment. No. 940,609; Nov. 16; Sp. p. 4791; Gaz. vol. 148; p. 798.  
 Newberry, S. B., Baybridge, Ohio. Basic fire-brick lining. No. 927,585; July 13; Sp. p. 1805; Gaz. vol. 144; p. 322.  
 Newbery, F. T., San Francisco, Cal. Apparatus for applying water-power. No. 941,090; Nov. 23; Sp. p. 5834; Gaz. vol. 148; p. 984.  
 Newby, H. A., Loxa, Ill. Adjustable horse-collar. No. 911,749; Feb. 9; Sp. p. 1432; Gaz. vol. 139; p. 267.  
 Newby, L. W. (See Whitney, C. H., assignor.)  
 Newcomb, R. E., Holyoke, Mass. Fluid-clutch speed-controller and power-transmitter. No. 923,565; June 1; Sp. p. 1011; Gaz. vol. 143; p. 155.  
 Newcomer, A. C., Newburg, Iowa. Cultivator. No. 916,184; Mar. 23; Sp. p. 5148; Gaz. vol. 140; p. 911.  
 Newcomer, A. C., Newburg, Iowa. Combined harrow-transport and clod-crusher. No. 916,478; Mar. 30; Sp. p. 5733; Gaz. vol. 140; p. 1035.  
 Newcomer, M. S., Mount Morris, Ill. Windmill-regulator. No. 931,140; Aug. 17; Sp. p. 3203; Gaz. vol. 145; p. 559.  
 Newcomet, W. S., Philadelphia, Pa. Combined vibrator and timer. No. 923,566; June 1; Sp. p. 1013; Gaz. vol. 143; p. 155.  
 Newell, A. T., Birmingham, Ala. Dumping-wagon. No. 936,022; Oct. 5; Sp. p. 895; Gaz. vol. 147; p. 135.  
 Newell, A. T., Birmingham, Ala. Running-gear. No. 942,182; Dec. 7; Sp. p. 334; Gaz. vol. 149; p. 51.  
 Newell, A. T., Birmingham, Ala. Air-compressor. No. 942,455; Dec. 7; Sp. p. 894; Gaz. vol. 149; p. 144.  
 Newell, E. M., St. Vincent, Minn. Wrench and cutter. No. 924,816; June 15; Sp. p. 3699; Gaz. vol. 143; p. 634.  
 Newell, E. M., Pembina, N. D. Agricultural implement. No. 933,573; Sept. 7; Sp. p. 1247; Gaz. vol. 146; p. 184.  
 Newell, F. A., Terry, Mont. Aeroplane air-ship. No. 928,687; July 20; Sp. p. 4131; Gaz. vol. 144; p. 719.  
 Newell, F. C., assignor to F. C. Newell Mutograph Corporation, Cleveland, Ohio. Stipple member. No. 909,444; Jan. 12; Sp. p. 2043; Gaz. vol. 138; p. 363.  
 Newell, F. W., Philadelphia, Pa. Alternating-current electromagnetic valve apparatus. No. 937,634; Oct. 19; Sp. p. 4241; Gaz. vol. 147; p. 723.  
 Newell, I. M., assignor of one-half to H. E. Thompson, Minneapolis, Minn. Flour-sifter. No. 909,649; Jan. 12; Sp. p. 2454; Gaz. vol. 138; p. 435.  
 Newell, J. L., South Bend, Ind. Pneumatic tire. No. 908,488; Jan. 5; Sp. p. 108; Gaz. vol. 138; p. 20.  
 Newell, M. K. (See Newell, W. H., assignor.)  
 Newell Mathews Co. (See Hulce, V. E., assignor.)  
 Newell, W. H., assignor to M. K. Newell, Philadelphia, Pa. Valve. No. 933,779; Sept. 14; Sp. p. 1669; Gaz. vol. 146; p. 276.  
 Newerf, N. C., Buffalo, N. Y. Bucket for concrete building material. No. 934,092; Sept. 14; Sp. p. 2291; Gaz. vol. 146; p. 376.  
 Newey, G. H., Winterport, Me. Bottle-stopper. No. 917,646; Apr. 6; Sp. p. 1333; Gaz. vol. 141; p. 235.  
 Newhall, E. J., Waupaca, Wis. Telephone-pole. No. 915,305; Mar. 16; Sp. p. 3408; Gaz. vol. 140; p. 595.  
 Newhall, G. M., Philadelphia, Pa. Condenser. No. 909,650; Jan. 12; Sp. p. 2456; Gaz. vol. 138; p. 435.  
 Newhall, H. B. (See Cook, J. H., assignor.)  
 Newhall, H. B. (See Pleister, H. W., assignor.)  
 Newhall, H. B., Plainfield, N. J. Expansion bolt-anchor. No. 919,205; Apr. 20; Sp. p. 4627; Gaz. vol. 141; p. 807.  
 Newhard, G. F. (See Lauckner, B., assignor.)  
 Newhart, S. J., Steilacoom, Wash. Sash-lock. No. 914,065; Mar. 2; Sp. p. 881; Gaz. vol. 140; p. 137.  
 Newland, F. M., Alger, Ohio. Weeder. No. 941,091; Nov. 23; Sp. p. 5835; Gaz. vol. 148; p. 985.  
 Newland, H. J. (See Wagenhauser and Newland.)  
 Newland, R. M., Seaford, Del. Peanut-shelling machine. No. 941,686; Nov. 30; Sp. p. 7113; Gaz. vol. 148; p. 1202.  
 Newlands, H. (See Bertram, L. A., assignor.)  
 Newlin, J. C., Philadelphia, Pa. Rod-bending tool. No. 919,206; Apr. 20; Sp. p. 4628; Gaz. vol. 141; p. 807.  
 Newlon, F. E., Culbertson, Nebr. Beet-harvester. No. 931,789; Aug. 24; Sp. p. 4593; Gaz. vol. 145; p. 796.  
 Newman, A., *et al.* (See Essick, W. F., assignor.)  
 Newman, A., Butte, Mont. Strainer for teapots. No. 937,168; Oct. 19; Sp. p. 3266; Gaz. vol. 147; p. 569.  
 Newman, A. T., Greeley, Kans. Fire-alarm. No. 921,875; May 18; Sp. p. 3679; Gaz. vol. 142; p. 648.  
 Newman, A. T., assignor of one-half to C. A. Rohrer, Greeley, Kans. Wave-motor. No. 919,928; Apr. 27; Sp. p. 6354; Gaz. vol. 141; p. 1086.  
 Newman, C., Sydney, New South Wales, Australia. Advertising apparatus. No. 921,560; May 11; Sp. p. 3004; Gaz. vol. 142; p. 516.  
 Newman, C., Chicago, Ill. Dress-fitting stand and skirt-marker. No. 930,559; Aug. 10; Sp. p. 1924; Gaz. vol. 145; p. 339.  
 Newman, C. A. (See Keith, C. B., assignor.)  
 Newman, E. L., Parsons, Kans., assignor, by mesne assignments, of one-half to H. P. Frankeberger. Crude-oil burner. No. 940,713; Nov. 23; Sp. p. 5028; Gaz. vol. 148; p. 859.  
 Newman, F. A., Washougal, Wash. Seed-potato cutter. No. 911,900; Feb. 9; Sp. p. 1705; Gaz. vol. 139; p. 316.  
 Newman, G. G., and W. Rowe, Bismarck, N. D. Grain-door. No. 943,992; Dec. 21; Sp. p. 4220; Gaz. vol. 149; p. 728.  
 Newman, G. R. J. (See Loop, J. Z., assignor.)  
 Newman, G. S., Connorsville, Ind. Floor-scraping machine. No. 909,652; Jan. 12; Sp. p. 2459; Gaz. vol. 138; p. 436.  
 Newman, H. C., assignor of fifty-one one-hundredths to J. J. Jenkins, Los Angeles, Cal. Electric laundry-iron. No. 936,556; Oct. 12; Sp. p. 2023; Gaz. vol. 147; p. 333.  
 Newman, J., New York, N. Y. Lock-alarm. No. 922,616; May 25; Sp. p. 5189; Gaz. vol. 142; p. 918.  
 Newman, M. F., assignor to Wm. B. Scaife & Sons Company, Pittsburg, Pa. Water-purifying apparatus. No. 922,025; May 18; Sp. p. 3988; Gaz. vol. 142; p. 697.  
 Newman, S., and H. R. Bothwell, Cincinnati, Ohio. Display apparatus. No. 944,969; Dec. 28; Sp. p. 6317; Gaz. vol. 149; p. 1085.  
 Newman, W. (See Dickerman and Newman.)  
 Newmann, J., Brooklyn, N. Y. Antifriction roller-bearing. No. 921,442; May 11; Sp. p. 2779; Gaz. vol. 142; p. 478.  
 Newmann, J., Brooklyn, N. Y. Roller-bearing. No. 934,621; Sept. 21; Sp. p. 3327; Gaz. vol. 146; p. 579.  
 Newmann, J., Brooklyn, N. Y. Shaft-coupling. No. 934,622; Sept. 21; Sp. p. 3330; Gaz. vol. 146; p. 579.  
 Newpher, A. H., Chicago, Ill. Rail-joint. No. 938,167; Oct. 26; Sp. p. 5383; Gaz. vol. 147; p. 919.  
 Newsam, J., Peoria, Ill. Door-closure. No. 931,701; Aug. 17; Sp. p. 4384; Gaz. vol. 145; p. 745.  
 Newsam, M. M., Kenney, Ill. Cooker. No. 923,690; June 1; Sp. p. 1273; Gaz. vol. 143; p. 198.  
 Newsam, W. F., Kenney, Ill. Harmonica attachment. No. 923,689; June 1; Sp. p. 1271; Gaz. vol. 143; p. 198.  
 Newsome, E. L., Fairhaven, Lytham, England. Astronomical game. No. 944,631; Dec. 28; Sp. p. 5609; Gaz. vol. 149; p. 973.  
 Newton, A. C., Crescent, N. Y. Elevator. No. 929,870; Aug. 3; Sp. p. 524; Gaz. vol. 145; p. 84.  
 Newton, A. E., assignor to Prentice Bros. Company, Worcester, Mass. Gearing. No. 943,042; Dec. 14; Sp. p. 2200; Gaz. vol. 149; p. 374.  
 Newton Balance Valve Co. *et al.* (See Stant, I. O., assignor.)  
 Newton, C. H., assignor to Standard Company, Torrington, Conn. Shock-absorber. No. 924,817; June 15; Sp. p. 3700; Gaz. vol. 143; p. 634.  
 Newton, C. W., Kansas City, Kans. Seam-ripper. No. 923,567; June 1; Sp. p. 1016; Gaz. vol. 143; p. 155.  
 Newton, E. J., Chicago, Ill., assignor to American Electric Specialty Company. Air-brake system. No. 922,318; May 18; Sp. p. 4552; Gaz. vol. 142; p. 791.  
 Newton, F. A., assignor to C. M. Kemp, Baltimore, Md. Curtain-fixture. No. 931,790; Aug. 24; Sp. p. 4597; Gaz. vol. 145; p. 797.  
 Newton, F. J., Schenectady, N. Y., assignor to General Electric Company. Condenser. No. 935,923; Oct. 5; Sp. p. 694; Gaz. vol. 147; p. 109.  
 Newton, H. C., Kew, near Melbourne, and A. G. M. Michell, Melbourne, Victoria, Australia. Apparatus for use in connection with check cipher systems. No. 935,536; Sept. 28; Sp. p. 5164; Gaz. vol. 146; p. 906.  
 Newton, J. W., Kerens, Tex. Plow. No. 936,345; Oct. 12; Sp. p. 1541; Gaz. vol. 147; p. 264.  
 Newton, L. W. (See Pierce and Newton.)  
 Newton Machine Tool Works. (See Hannum, E. J., assignor.)  
 Newton & Merriman. (See Sinclair, G. G., assignor.)

*Alphabetical list of patentees—Continued.*

- Newton, T., and H. Jourdan, Camden, N. J. Clamp. No. 925,828; June 22; Sp. p. 5758; Gaz. vol. 143; p. 996.  
 Newton, W. G., assignor to Peck Bros. & Co., New Haven, Conn. Mixing-valve. No. 927,000; July 6; Sp. p. 601; Gaz. vol. 144; p. 99.  
 Newton, W. H. (See Rollins, E. C., assignor.)  
 Newton, W. J., Lynbrook, N. Y., assignor to Metropolitan Switchboard Company. Wall-switch. No. 917,348; Apr. 6; Sp. p. 802; Gaz. vol. 141; p. 137.  
 Ney, A. D., Aurora, Ill. Apparatus and process for laying cement sidewalks or similar structures. No. 939,071; Nov. 2; Sp. p. 1322; Gaz. vol. 148; p. 215.  
 Ney, A. D., Aurora, Ill. Rock-like substance. No. 939,072; Nov. 2; Sp. p. 1326; Gaz. vol. 148; p. 215.  
 Ney, G. S., Port Huron, Mich. Grain-door. No. 931,467; Aug. 17; Sp. p. 3894; Gaz. vol. 145; p. 672.  
 Ney, J., assignor to V. L. Ney Company, Canton, Ohio. Hay-carrier. No. 937,846; Oct. 26; Sp. p. 4687; Gaz. vol. 147; p. 811.  
 Ney, L., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 921,876; May 18; Sp. p. 3680; Gaz. vol. 142; p. 649.  
 Neyland, C. A., Spokane, Wash. Current-motor. No. 930,878; Aug. 10; Sp. p. 2601; Gaz. vol. 145; p. 444.  
 Neylon, T. E. (See Russell and Neylon.)  
 Neymann, P., assignor to Adams & Elting Company, Chicago, Ill. Surface finish. No. 911,606; Feb. 9; Sp. p. 1139; Gaz. vol. 139; p. 220.  
 Niagara Falls Metal Stamping Works. (See Eldridge, H. M., assignor.)  
 Niagara Machine & Tool Works. (See Lindgren, B. J., assignor.)  
 Niblack, S. M., New York, N. Y. Traveling ladder for sleeping-cars. No. 938,016; Oct. 26; Sp. p. 5042; Gaz. vol. 147; p. 868.  
 Nicault, J. (See Gueniffet and Nicault.)  
 Nichol, J. C., Ottawa, Ontario, Canada. Lubricator for car-axle journals. No. 944,375; Dec. 28; Sp. p. 5022; Gaz. vol. 149; p. 883.  
 Nichol, J. C., Montreal, Quebec, assignor of one-third to W. J. Paterson, Toronto, Canada. Car-axle lubricator. No. 917,477; Apr. 6; Sp. p. 1024; Gaz. vol. 141; p. 178.  
 Nicholas, C. E., Columbus, Ohio, assignor to Nicholas Telephone Selector Company, Rochester, N. Y. Selecting apparatus for telephone systems. No. 944,460; Dec. 28; Sp. p. 5215; Gaz. vol. 149; p. 913.  
 Nicholas, E., Kokomo, Ind. Self measuring and computing apparatus. No. 911,750; Feb. 9; Sp. p. 1434; Gaz. vol. 139; p. 267.  
 Nicholas, S. A., Clyde, Kans. Egg-beater. No. 919,625; Apr. 27; Sp. p. 5725; Gaz. vol. 141; p. 985.  
 Nicholas Telephone Selector Company. (See Nicholas, C. E., assignor.)  
 Nichole, L., et al. (See Daniel, T. J., assignor.)  
 Nicholes, H. W., Atlanta, Ga. Pipe. No. 940,184; Nov. 16; Sp. p. 3854; Gaz. vol. 148; p. 654.  
 Nicholes, N. W. (See Jones and Nicholes.)  
 Nicholls, J. C., Blue Mound, Ill. Heater for brooders. No. 914,171; Mar. 2; Sp. p. 1114; Gaz. vol. 140; p. 174.  
 Nicholls, W. H., Charlestown, Mass. Implement for stropping razor-blades. No. 911,839; Feb. 9; Sp. p. 1589; Gaz. vol. 139; p. 295.  
 Nicholls, W. T., Wellsburg, W. Va. Apparatus for manufacturing glass tiles. No. 909,014; Jan. 5; Sp. p. 1193; Gaz. vol. 138; p. 191.  
 Nicholls, W. T., Wellsburg, W. Va. Molding-tile. No. 921,727; May 18; Sp. p. 3368; Gaz. vol. 142; p. 599.  
 Nicholls, W. T., Wellsburg, W. Va. Tile. No. 926,282; June 29; Sp. p. 6694; Gaz. vol. 143; p. 1181.  
 Nicholls, W. T., Wellsburg, W. Va. Refrigerator. No. 937,635; Oct. 19; Sp. p. 4245; Gaz. vol. 147; p. 723.  
 Nichols, A. S., New York, N. Y. Veneer-drier. No. 918,581; Apr. 20; Sp. p. 3305; Gaz. vol. 141; p. 601.  
 Nichols, D. A., New York, N. Y. Sand-blast apparatus. No. 911,431; Feb. 2; Sp. p. 786; Gaz. vol. 139; p. 137.  
 Nichols, E. M., Philadelphia, Pa. Apparatus for cleaning and separation of sand. No. 936,801; Oct. 12; Sp. p. 2512; Gaz. vol. 147; p. 419.  
 Nichols, F. L., Stamford, Conn., assignor to Nichols Quadruple Traction Vehicle and Power Company, Mount Vernon, N. Y. Combustion-head for hydrocarbon-engines. No. 910,220; Jan. 19; Sp. p. 3619; Gaz. vol. 138; p. 658.  
 Nichols, F. L., Stamford, Conn., assignor to Nichols Quadruple Traction Vehicle and Power Company, Mount Vernon, N. Y. Hydrocarbon-engine. No. 927,001; July 6; Sp. p. 605; Gaz. vol. 144; p. 100.  
 Nichols, F. L., Stamford, Conn., assignor of one-half to M. Herrington, Arlington, N. J. Hydrocarbon-motor. No. 924,100; June 8; Sp. p. 2155; Gaz. vol. 143; p. 360.  
 Nichols, F. L., Washington, D. C., assignor to American Dairy Supply Company, Augusta, Me. Machine for making cover or closing disks. No. 927,002; July 6; Sp. p. 606; Gaz. vol. 144; p. 100.  
 Nichols, F. P., Houston, Tex. Rotary engine. No. 928,147; July 13; Sp. p. 2969; Gaz. vol. 144; p. 508.  
 Nichols, F. W., and F. J. Hastings, Helena, Mo. Woodworking-clamp. No. 919,930; Apr. 27; Sp. p. 6356; Gaz. vol. 141; p. 1086.  
 Nichols, F. Y. (See Korten, H., assignor.)  
 Nichols, H. B., Philadelphia, Pa. Grinding-machine. No. 913,543; Feb. 23; Sp. p. 5186; Gaz. vol. 139; p. 925.  
 Nichols, H. B., Philadelphia, Pa. Grinding-machine. No. 944,147; Dec. 21; Sp. p. 4541; Gaz. vol. 149; p. 779.  
 Nichols, H. B., Philadelphia, Pa. Universal grinding-machine. No. 944,902; Dec. 28; Sp. p. 6181; Gaz. vol. 149; p. 1064.  
 Nichols, H. B., Philadelphia, Pa. Grinding-machine. No. 944,903; Dec. 28; Sp. p. 6189; Gaz. vol. 149; p. 1065.  
 Nichols, M. F., Oswayo, Pa. Automatic gas-cut-off and safety device. No. 934,339; Sept. 14; Sp. p. 2766; Gaz. vol. 146; p. 459.  
 Nichols Quadruple Traction Vehicle and Power Company. (See Nichols, F. L., assignor.)  
 Nichols, R. F., Oakland, Cal. Window-stop. No. 915,877; Mar. 23; Sp. p. 4571; Gaz. vol. 140; p. 812.  
 Nichols and Shepard Company. (See Bathrick, G. H., assignor.)  
 Nichols, W. A., Fall River, Mass., and T. P. Himes, Providence, R. I. Wire-board cleaner for drawing and spinning machines. No. 922,806; May 25; Sp. p. 5576; Gaz. vol. 142; p. 979.  
 Nichols, W. G., Chicago Heights, Ill. Casting metals. No. 938,688; Nov. 2; Sp. p. 535; Gaz. vol. 148; p. 83.  
 Nichols, W. G., Chicago Heights, Ill. Casting metals. No. 938,689; Nov. 2; Sp. p. 537; Gaz. vol. 148; p. 83.  
 Nichols, W. G., Chicago, Ill., assignor to American Brake Shoe & Foundry Company, Jersey City, N. J. Stone-crusher head. No. 940,352; Nov. 16; Sp. p. 4228; Gaz. vol. 148; p. 713.  
 Nicholson, A. H., Wendover, England. Selective electric signaling. No. 909,651; Jan. 12; Sp. p. 2458; Gaz. vol. 138; p. 436.  
 Nicholson, A. H., Wendover, assignor to New Phonopore Telephone Company Limited, London, England. Telephonic receiver. No. 912,878; Feb. 16; Sp. p. 3842; Gaz. vol. 139; p. 677.  
 Nicholson, E., Cleveland, Ohio. Registering device. No. 927,065; July 6; Sp. p. 774; Gaz. vol. 144; p. 123.  
 Nicholson, F. H. (See Scholdt and Nicholson.)  
 Nicholson, J. B. (See Warfield and Nicholson.)  
 Nicholson, J. H. (See Stiefel and Nicholson.)  
 Nicholson, J. S., Pittsburg, Pa. Wrench. No. 927,270; July 6; Sp. p. 1171; Gaz. vol. 144; p. 191.  
 Nicholson, R., Dallas, Tex. Seed-stand. No. 927,671; July 13; Sp. p. 2022; Gaz. vol. 144; p. 352.  
 Nicholson, R. H., Wilkes-Barre, Pa. Controlling mechanism for winding-engines. No. 929,871; Aug. 3; Sp. p. 527; Gaz. vol. 145; p. 85.  
 Nicholson, R. J., Chicago, Ill. Ring or loop. No. 924,492; June 8; Sp. p. 3010; Gaz. vol. 143; p. 491.  
 Nicholson, R. J., Chicago, Ill. Bookbinder. No. 928,878; July 20; Sp. p. 4501; Gaz. vol. 144; p. 784.  
 Nicholson, T. A., and W. B. Pierson, Marceline, Mo. Interlock continuous rail-joint. No. 919,452; Apr. 27; Sp. p. 5352; Gaz. vol. 141; p. 925.  
 Nicholson, W., Findlay, Ill. Stalk-rake. No. 925,129; June 15; Sp. p. 4335; Gaz. vol. 143; p. 739.  
 Nickel, H. A. (See Wessell, Nickel, and Wessell.)  
 Nickerson, A. L., and H. Hughes, Campello, Mass. Stencil-brush. No. 914,970; Mar. 9; Sp. p. 2722; Gaz. vol. 140; p. 458.  
 Nickerson, B. F., Chicago, Ill. Switch. No. 913,037; Feb. 23; Sp. p. 4148; Gaz. vol. 139; p. 753.  
 Nickerson, C. A., Knoxville, Tenn. Wooden column. No. 933,915; Sept. 14; Sp. p. 1951; Gaz. vol. 146; p. 321.  
 Nickerson, C. S., Evansville, Ind., assignor to Nickerson Typewriter Company, Racine, Wis. Type-writing machine. No. 913,038; Feb. 23; Sp. p. 4151; Gaz. vol. 139; p. 754.  
 Nickerson, C. S., Evansville, Ind., assignor to Nickerson Typewriter Company, Racine, Wis. Type-writing machine. No. 913,039; Feb. 23; Sp. p. 4164; Gaz. vol. 139; p. 754.  
 Nickerson, C. S., Evansville, Ind., assignor to Nickerson Typewriter Company, Racine, Wis. Type-writing machine. No. 914,667; Mar. 9; Sp. p. 2114; Gaz. vol. 140; p. 359.  
 Nickerson, C. S., Evansville, Ind., assignor to Nickerson Typewriter Company, Racine, Wis. Ribbon-movement for type-writers. No. 915,037; Mar. 9; Sp. p. 2838; Gaz. vol. 140; p. 481.  
 Nickerson, H. L. V. (See Cheney and Nickerson.)  
 Nickerson, J. A., Fairbury, Ill. Display-rack. No. 942,456; Dec. 7; Sp. p. 896; Gaz. vol. 149; p. 145.  
 Nickerson, R. B. (See Pierce and Nickerson.)  
 Nickerson Typewriter Company. (See Nickerson, C. S., assignor.)  
 Nickerson, W. C., Whitewater, Wis. Cabinet for phonograph-records. No. 924,493; June 8; Sp. p. 3013; Gaz. vol. 143; p. 491.  
 Nickerson, W. E., Cambridge, Mass. Method and apparatus for treating steel. No. 931,332; Aug. 17; Sp. p. 3624; Gaz. vol. 145; p. 625.  
 Nickerson, W. E., Cambridge, Mass., assignor to Automatic Weighing Machine Company, New York, N. Y. Automatic weighing-machine. No. 930,489; Aug. 10; Sp. p. 1736; Gaz. vol. 145; p. 313.  
 Nickerson, W. E., Cambridge, Mass., assignor, by mesne assignments, to Automatic Weighing Machine Company, New York, N. Y. Automatic weighing apparatus. No. 936,557; Oct. 12; Sp. p. 2023; Gaz. vol. 147; p. 334.  
 Nicklaus, C. F., et al. (See Houze, L., assignor.)



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- Nickols, D. F., Lincoln, Ill. Tellurian. No. 940,546; Nov. 16; Sp. p. 4677; Gaz. vol. 148; p. 778.
- Nickum, E., Philadelphia, Pa. Abdominal belt. No. 933,101; Sept. 7; Sp. p. 136; Gaz. vol. 146; p. 22.
- Nicol, A., assignor to Bergmann-Elektricitäts-Werke, Aktiengesellschaft, Berlin, Germany. Automatic tension-regulator for electrical generators. No. 910,949; Jan. 26; Sp. p. 5132; Gaz. vol. 138; p. 924.
- Nicol, A., assignor to Bergmann Elektricitäts-Werke Aktiengesellschaft, Berlin, Germany. Changeable-rate electricity-meter. No. 920,623; May 4; Sp. p. 1070; Gaz. vol. 142; p. 174.
- Nicol, G., Amity, Colo. Beet-topper. No. 919,929; Apr. 27; Sp. p. 6355; Gaz. vol. 141; p. 1086.
- Nicola, F., New York, N. Y. Pressure-reducing valve. No. 923,568; June 1; Sp. p. 1017; Gaz. vol. 143; p. 156.
- Nicola, F., Brooklyn, N. Y. Mail-bag catcher. No. 929,472; July 27; Sp. p. 5733; Gaz. vol. 144; p. 1006.
- Nicola, P. W., Leavenworth, Kans. Garbage-receptacle. No. 913,040; Feb. 23; Sp. p. 4169; Gaz. vol. 139; p. 755.
- Nicolai, S. F., Jackson, Mich. Molding-machine. No. 942,457; Dec. 7; Sp. p. 897; Gaz. vol. 149; p. 145.
- Nicolaidi, J., Paris, France. Official preparation of phosphoric acid. No. 914,175; Mar. 2; Sp. p. 1122; Gaz. vol. 140; p. 175.
- Nicolas, M., Paris, France. Electric battery. No. 937,324; Oct. 19; Sp. p. 3582; Gaz. vol. 147; p. 619.
- Nicoll, A., Newark, N. J. Girth for harness. No. 919,063; Apr. 20; Sp. p. 4559; Gaz. vol. 141; p. 761.
- Nicoll, H. (See Tait and Nicoll.)
- Niebauer, J. J., South Bend, Ind. Post-molding machine. No. 918,691; Apr. 20; Sp. p. 3607; Gaz. vol. 141; p. 639.
- Niederlander, D. R. (See Scott, W. H., assignor.)
- Niedringhaus, A., St. Louis, Mo. Boat. No. 933,331; Sept. 7; Sp. p. 678; Gaz. vol. 146; p. 105.
- Niedringhaus, A., St. Louis, Mo. Galvanizing sheet metal. No. 943,264; Dec. 14; Sp. p. 2648; Gaz. vol. 149; p. 449.
- Niedringhaus, A., St. Louis, Mo. Galvanizing apparatus. No. 943,315; Dec. 14; Sp. p. 2756; Gaz. vol. 149; p. 466.
- Nielsen & Company, A. (See Stayton, F. J., assignor.)
- Nielsen, E. W., Hoboken, N. J. Stamp-affixer. No. 939,537; Nov. 9; Sp. p. 2408; Gaz. vol. 148; p. 399.
- Nielsen, H., Minneapolis, Minn. Harness-buckle. No. 922,500; May 25; Sp. p. 4937; Gaz. vol. 142; p. 879.
- Nielsen, H., Copenhagen, Denmark. Explosion-motor with rotating cylinders. No. 926,353; June 29; Sp. p. 6842; Gaz. vol. 143; p. 1204.
- Nielsen, H. C. (See Hübscher, H., assignor.)
- Nielsen, J., Copenhagen, Denmark. Milking-machine. No. 917,888; Apr. 13; Sp. p. 1866; Gaz. vol. 141; p. 341.
- Nielsen, J., Butte, Mont. Square-hole auger. No. 939,438; Nov. 9; Sp. p. 2212; Gaz. vol. 148; p. 367.
- Nielsen, N. H., Anthon, Iowa. Box-lid support. No. 925,217; June 15; Sp. p. 4514; Gaz. vol. 143; p. 770.
- Nielsen, O., Antwerp, Belgium, assignor of three-twelfths to S. R. Upham and two-twelfths to E. L. Kearns, Pittsburg, Pa. Propeller for vessels. No. 930,409; Aug. 10; Sp. p. 1585; Gaz. vol. 145; p. 287.
- Nielsen, R., Troy, N. Y. Ice-shaving device. No. 918,893; Apr. 20; Sp. p. 4031; Gaz. vol. 141; p. 707.
- Nielsen, S., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 937,382; Oct. 19; Sp. p. 3716; Gaz. vol. 147; p. 638.
- Nielsen, S. J., Copenhagen, Denmark. Keyless combination-lock. No. 908,691; Jan. 5; Sp. p. 552; Gaz. vol. 138; p. 86.
- Nielson, A., Hartford, Conn. Micrometer. No. 923,880; June 8; Sp. p. 1748; Gaz. vol. 143; p. 291.
- Nielson, H., assignor to Osborn Manufacturing Company, Cleveland, Ohio. Rotary brush. No. 909,204; Jan. 12; Sp. p. 1594; Gaz. vol. 138; p. 286.
- Nieman, T. (See Kloeb, W. R., assignor.)
- Niemann, A. H. (See Strandt and Niemann.)
- Niemann, G. J. (See Kuster and Niemann.)
- Niemann, H., New York, N. Y. Automatic gas cut-off. No. 910,221; Jan. 19; Sp. p. 3620; Gaz. vol. 138; p. 658.
- Niemann, W. G., assignor of one-half to G. A. Zaiss, Burlington, Iowa. Fruit-jar wrench. No. 937,636; Oct. 19; Sp. p. 4247; Gaz. vol. 147; p. 724.
- Niemeyer, W. H. (See Godman and Niemeyer.)
- Niergarth, W., Pekin, Ill. Scarificator. No. 931,791; Aug. 24; Sp. p. 4598; Gaz. vol. 145; p. 797.
- Niesz, F. B., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Disk harrow. No. 916,361; Mar. 23; Sp. p. 5466; Gaz. vol. 140; p. 970.
- Niesz, F. B., assignor to Bucher & Gibbs Plow Company, Canton, Ohio. Disk harrow-scraper. No. 935,680; Oct. 5; Sp. p. 123; Gaz. vol. 147; p. 20.
- Nightingale, T. F., et al. (See Coughlin, J. D., assignor.)
- Nightingall Gas Control Company. (See Nightingall, V. C. J., assignor.)
- Nightingall, V. C. J., assignor to Nightingall Gas Control Company Limited, Melbourne, Victoria, Australia. Gas lighting and extinguishing apparatus. No. 940,610; Nov. 16; Sp. p. 4792; Gaz. vol. 148; p. 799.
- Nigro, P., Clarksville, Tenn. Fire-escape. No. 912,152; Feb. 9; Sp. p. 2295; Gaz. vol. 139; p. 398.
- Nihart, O. H. (See Luke, D. F., assignor.)
- Nikel, E. O., Taworzo, Austria-Hungary. Towing arrangement for canal and river vessels. No. 942,510; Dec. 7; Sp. p. 1014; Gaz. vol. 149; p. 163.
- Nikiforoff, A., Warsaw, Russia. Sound-intensifier. No. 920,624; May 4; Sp. p. 1071; Gaz. vol. 142; p. 174.
- Nikonow, J. P., Evansville, Ind. Folding monkey-wrench. No. 909,205; Jan. 12; Sp. p. 1596; Gaz. vol. 138; p. 287.
- Nikonow, J. P., assignor to Schroeder Headlight Company, Evansville, Ind. Elastic-fluid turbine. No. 925,218; June 15; Sp. p. 4515; Gaz. vol. 143; p. 770.
- Nikonow, J. P., assignor to Schroeder Headlight Company, Evansville, Ind. Armature. No. 935,397; Sept. 28; Sp. p. 4868; Gaz. vol. 146; p. 861.
- Niksch, L. (See Halstead and Niksch.)
- Niles-Bement-Pond Company. (See Bertram, H., assignor.)
- Niles-Bement-Pond Company. (See Bryan, J. H. B., assignor.)
- Niles-Bement-Pond Company. (See Hagman, W. J., assignor.)
- Niles-Bement-Pond Company. (See Parker, F. W., assignor.)
- Niles-Bement-Pond Company. (See Reiss, G. T., assignor.)
- Niles-Bement-Pond Company. (See Sears, W. T., assignor.)
- Niles-Bement-Pond Company. (See Wagner, F., assignor.)
- Nilson, A. H., and M. Olson, Bridgeport, Conn., assignor to R. E. Dietz Company, New York, N. Y. Machine for making tube-sections and similar parts. No. 912,601; Feb. 16; Sp. p. 3261; Gaz. vol. 139; p. 585.
- Nilson, L. G., Hoboken, N. J., assignor of one-half to W. B. Strang, New York, N. Y. Car-roof construction. No. 919,931; Apr. 27; Sp. p. 6358; Gaz. vol. 141; p. 1087.
- Nilson, L. G., Hoboken, N. J., assignor of one-half to W. B. Strang, New York, N. Y. Car-body construction. No. 923,292; June 1; Sp. p. 417; Gaz. vol. 143; p. 59.
- Nilson, L. G., Philadelphia, Pa., assignor to W. B. Strang, New York, N. Y. Motor-vehicle. No. 932,312; Aug. 24; Sp. p. 5676; Gaz. vol. 145; p. 968.
- Nilson, N., Wayzata, Minn. Automatic weighing-scale. No. 915,468; Mar. 16; Sp. p. 3729; Gaz. vol. 140; p. 648.
- Nilsson, J. A. R., and S. A. Hellqvist, Björketorp, Sweden. Extracting milk-sugar from whey. No. 938,017; Oct. 26; Sp. p. 5048; Gaz. vol. 147; p. 868.
- Nilsson, J. L. and O. G., Chicago, Ill. Soldering-tool. No. 929,473; July 27; Sp. p. 5736; Gaz. vol. 144; p. 1007.
- Nilsson, J. W., Balfour, N. D. Attachment for telephones. No. 940,047; Nov. 16; Sp. p. 3543; Gaz. vol. 148; p. 606.
- Nilsson, O. G. (See Nilsson, J. L. and O. G.)
- Nimmons & Fellows. (See Fellows, W. K., assignor.)
- 1900 Washer Company. (See Gardiner, C. L., assignor.)
- "1900" Washer Company. (See Winans, T. J., assignor.)
- Nineteen Hundred Washer Company. (See Sheak, A. G., assignor.)
- Nineteen Hundred Washer Company. (See Winans, T. J., assignor.)
- Ninnis, J. T., Bisbee, Ariz. Ter. Rail-fastening. No. 930,313; Aug. 3; Sp. p. 1391; Gaz. vol. 145; p. 231.
- Nirenberg, R., St. Petersburg, Russia. Device for transmitting sound-waves. No. 929,623; July 27; Sp. p. 6031; Gaz. vol. 144; p. 1056.
- Nisbet, A., et al. (See Dettelbach and Powell, assignors.)
- Nisbet, D. F., Wilkesburg, Pa. Fuel-feeder for furnaces. No. 910,305; Jan. 19; Sp. p. 3829; Gaz. vol. 138; p. 690.
- Nishimura, F. Y., New York, N. Y., assignor of two-thirds to H. Bocker, Atlantic City, N. J., and C. Bocker, Brooklyn, N. Y. Treating wood. No. 922,026; May 18; Sp. p. 3989; Gaz. vol. 142; p. 698.
- Niss, C. F., Chicago, Ill. Photographic shutter. No. 940,714; Nov. 23; Sp. p. 5030; Gaz. vol. 148; p. 859.
- Nissen Co-operative Patent Co. (See Nissen, G. A., assignor.)
- Nissen, G. A., assignor to Nissen Co-operative Patent Co., Klemme, Iowa. Drive connection for sickle-bars. No. 934,690; Sept. 21; Sp. p. 3460; Gaz. vol. 146; p. 603.

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- Nistle, G. W., North Muskegon, Mich., B. W. Brady and E. Inskip, Chicago, Ill. Block system for railway-crossings. No. 928,148; July 13; Sp. p. 2971; Gaz. vol. 144; p. 508.
- Nistle, G. W., North Muskegon, Mich., B. W. Brady and E. Inskip, Chicago, Ill. Block system for railways. No. 928,271; July 20; Sp. p. 3286; Gaz. vol. 144; p. 582.
- Nistle, G. W., North Muskegon, Mich., B. W. Brady and E. Inskip, Chicago, Ill. Switch-locking system for railways. No. 928,272; July 20; Sp. p. 3290; Gaz. vol. 144; p. 582.
- Nistle, G. W., North Muskegon, Mich., E. Inskip and B. W. Brady, Chicago, Ill. Block system for railways. No. 926,818; July 6; Sp. p. 226; Gaz. vol. 144; p. 37.
- Nistle, G. W., North Muskegon, Mich., E. Inskip and B. W. Brady, Chicago, Ill. Block system for railways. No. 928,274; July 20; Sp. p. 3301; Gaz. vol. 144; p. 583.
- Nistle, G. W., Muskegon, Mich., B. W. Brady and E. Inskip, Chicago, Ill. Block system for railways. No. 928,273; July 20; Sp. p. 3295; Gaz. vol. 144; p. 583.
- Nisun, W. A., Minneapolis, Minn. Boiler. No. 936,023; Oct. 5; Sp. p. 896; Gaz. vol. 147; p. 135.
- Nitrogen Company. (See Acker, C. E., assignor.)
- Nix, J. D., Ferriday, La., assignor of one-fourth to L. M. Dalgarn, Natchez, Miss. Block-signal system. No. 938,331; Oct. 26; Sp. p. 5726; Gaz. vol. 147; p. 975.
- Nix, J. J., Los Angeles, Cal. Gas-scrubbing apparatus. No. 934,205; Sept. 14; Sp. p. 2517; Gaz. vol. 146; p. 415.
- Nix, J. L., Homer City, Pa. Incubator. No. 934,006; Sept. 14; Sp. p. 2113; Gaz. vol. 146; p. 349.
- Nix, W. K., Jr., Atlanta, Ga. Pulverizing-machine. No. 935,161; Sept. 28; Sp. p. 4396; Gaz. vol. 146; p. 785.
- Nixon, G. L., assignor of one-half to J. W. Brown, Portland, Ind. Fruit-picker. No. 914,502; Mar. 9; Sp. p. 1780; Gaz. vol. 140; p. 305.
- Nixon, J. N., Winnipeg, Manitoba, Canada. Attachment to street-cars. No. 921,877; May 18; Sp. p. 3681; Gaz. vol. 142; p. 649.
- Nixon, T. C., Chicago, Ill. Electric lock. No. 926,890; July 6; Sp. p. 385; Gaz. vol. 144; p. 62.
- Noad, A. C., assignor to C. W. Harrison, London, England. Gas-lamp. No. 919,932; Apr. 27; Sp. p. 6361; Gaz. vol. 141; p. 1087.
- Noah, H., Baxter, Iowa. Method and apparatus for making culverts of concrete. No. 929,694; Aug. 3; Sp. p. 108; Gaz. vol. 145; p. 20.
- Nobel's Explosives Company. (See Hodge, H. D., assignor.)
- Noble, A., Rock Springs, Wyo. Brooder. No. 934,206; Sept. 14; Sp. p. 2519; Gaz. vol. 146; p. 415.
- Noble, A., Rock Springs, Wyo. Incubator. No. 943,954; Dec. 21; Sp. p. 4130; Gaz. vol. 149; p. 716.
- Noble, A. E., Anniston, Ala. Metal wheel. No. 933,102; Sept. 7; Sp. p. 137; Gaz. vol. 146; p. 23.
- Noble, C. W., Winnipeg, Manitoba, Canada. Stud. No. 917,478; Apr. 6; Sp. p. 1025; Gaz. vol. 141; p. 178.
- Noble, D., Bridgeport, Conn. Tension device for wire-covering machines. No. 919,751; Apr. 27; Sp. p. 5973; Gaz. vol. 141; p. 1026.
- Noble, D., and J. S. Finch, Bridgeport, Conn., assignors, by mesne assignments, to Singer Manufacturing Company. Purling device for button-hole-sewing machines. No. 920,625; May 4; Sp. p. 1074; Gaz. vol. 142; p. 174.
- Noble, D., and J. S. Finch, Bridgeport, Conn., assignors, by mesne assignments, to Singer Manufacturing Company. Throat-plate for button-hole sewing and cutting machines. No. 920,986; May 11; Sp. p. 1815; Gaz. vol. 142; p. 986.
- Noble, G. A., Anniston, Ala. Gate. No. 919,064; Apr. 20; Sp. p. 4362; Gaz. vol. 141; p. 762.
- Noble, G. S., Chicago, Ill. Concrete-mixer. No. 944,102; Dec. 21; Sp. p. 4438; Gaz. vol. 149; p. 765.
- Noble, G. W. (See Johnson and Noble.)
- Noble, L. C., Boston, Mass. Car-fender. No. 921,443; May 11; Sp. p. 2780; Gaz. vol. 142; p. 478.
- Noble, R. E., assignor to Morgan-Gardner Electric Company, Chicago, Ill. Cutter-chain. No. 921,728; May 18; Sp. p. 3369; Gaz. vol. 142; p. 599.
- Noble, R. E., and L. E. Mitchell, assignors to Morgan-Gardner Electric Company, Chicago, Ill. Rheostat. No. 929,001; July 27; Sp. p. 4754; Gaz. vol. 144; p. 851.
- Noble, R. H., Toronto, Ontario, assignor of one-third to T. C. Hook and one-third to C. S. Hook, Toronto, Canada. Pulley. No. 917,479; Apr. 6; Sp. p. 1026; Gaz. vol. 141; p. 179.
- Noblesville Specialty Company. (See Searce, H. M., assignor.)
- Noblett, E. A. (See Greene, G. v. K., assignor.)
- Nodine, L. R., assignor of one-half to E. Stahl, Naugatuck, Conn. Shock-absorbing pad. No. 938,504; Nov. 2; Sp. p. 124; Gaz. vol. 148; p. 20.
- Nodland, J. O., Chicago, Ill. Awning-roller support. No. 922,501; May 25; Sp. p. 4938; Gaz. vol. 142; p. 880.
- Nodon, A., Bordeaux, France. Recovering tin from waste. No. 940,471; Nov. 16; Sp. p. 4503; Gaz. vol. 148; p. 753.
- Noe, A. T., Parnassus, Pa. Blower. No. 918,358; Apr. 13; Sp. p. 2829; Gaz. vol. 141; p. 501.
- Noe, A. T., Parnassus, Pa., assignor to Electric Renovator Manufacturing Company. Fan-blower. No. 918,894; Apr. 20; Sp. p. 4032; Gaz. vol. 141; p. 708.
- Noe, A. T., Parnassus, Pa., assignor to Electric Renovator Manufacturing Company. Dust-collector. No. 918,895; Apr. 20; Sp. p. 4036; Gaz. vol. 141; p. 708.
- Noe, A. T., Parnassus, Pa., assignor to Electric Renovator Manufacturing Company. Pneumatic renovator. No. 918,896; Apr. 20; Sp. p. 4038; Gaz. vol. 141; p. 709.
- Noe, A. T., Parnassus, Pa., assignor to Electric Renovator Manufacturing Company. Dust-collector. No. 918,897; Apr. 20; Sp. p. 4040; Gaz. vol. 141; p. 709.
- Noe, E. C., Chicago, Ill. Ventilator. No. 932,490; Aug. 31; Sp. p. 6057; Gaz. vol. 145; p. 1050.
- Noeggerath, J. E. (See Reist and Noeggerath.)
- Noeggerath, J. E., Schenectady, N. Y., assignor to General Electric Company. Collector-ring. No. 919,626; Apr. 27; Sp. p. 5727; Gaz. vol. 141; p. 985.
- Noeggerath, J. E., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 920,626; May 4; Sp. p. 1076; Gaz. vol. 142; p. 175.
- Noeggerath, J. E., Schenectady, N. Y., assignor to General Electric Company. Current-collecting apparatus. No. 920,627; May 4; Sp. p. 1078; Gaz. vol. 142; p. 175.
- Noeggerath, J. E., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 937,462; Oct. 19; Sp. p. 3912; Gaz. vol. 147; p. 665.
- Noel, A. L., Mason City, Iowa. Door-controlling device. No. 944,494; Dec. 28; Sp. p. 5302; Gaz. vol. 149; p. 925.
- Noel, J. C., Hope, N. Mex. Syrup-pitcher closure. No. 933,196; Sept. 7; Sp. p. 355; Gaz. vol. 146; p. 56.
- Noel, J. M., *et al.* (See Larsh, J. M., assignor.)
- Noel, J. W., Clayton, Ind. Railway-crossing gate. No. 923,788; July 20; Sp. p. 4318; Gaz. vol. 144; p. 752.
- Noelle, E., Lüdenscheid, Germany. Separable button. No. 920,380; May 4; Sp. p. 595; Gaz. vol. 142; p. 95.
- Noelting, B. H., Nebraska City, Nebr. Caster. No. 938,888; Nov. 2; Sp. p. 951; Gaz. vol. 148; p. 151.
- Noepel, J. E., Harrison, N. J. Mechanical movement. No. 937,169; Oct. 19; Sp. p. 3267; Gaz. vol. 147; p. 569.
- Noerdlinger, H., A. Caroselli, and L. Berg, assignors to Chemische Fabrik Flörsheim, Dr. H. Noerdlinger, Flörsheim-on-the-Main, Germany. Preparing pure lactic acid. No. 924,494; June 8; Sp. p. 3014; Gaz. vol. 143; p. 492.
- Noesen, J. E., Chicago, Ill. Plug-valve. No. 910,015; Jan. 19; Sp. p. 3188; Gaz. vol. 138; p. 589.
- Noetel, A., New York, N. Y. Heat-generator. No. 912,879; Feb. 16; Sp. p. 3843; Gaz. vol. 139; p. 677.
- Noethig, H. W., and M. C. Bourgo, San Francisco, Cal. Combined bottle-draining and box-cleaning device. No. 913,544; Feb. 23; Sp. p. 5192; Gaz. vol. 139; p. 925.
- Noggle, W. H., Lancaster, Ohio. Thill tug or carrier. No. 941,943; Nov. 30; Sp. p. 7672; Gaz. vol. 148; p. 1292.
- Nogle, C. J., and G. Haas, Galveston, Tex. Rail fastening or chair. No. 910,411; Jan. 19; Sp. p. 4051; Gaz. vol. 138; p. 726.
- Noisom, O. P., and C. J. Lindewald, South Bend, Ind.; said Lindewald assignor of one-fourth to said Noisom. Switch. No. 934,340; Sept. 14; Sp. p. 2768; Gaz. vol. 146; p. 460.
- Nolan, J., *et al.* (See Moore, J., assignor.)
- Nolan, J., Philadelphia, Pa. Piston-valve. No. 913,968; Mar. 2; Sp. p. 654; Gaz. vol. 140; p. 103.
- Nolan, J. A., Chicago, Ill. Combined roller and ice skate. No. 938,168; Oct. 26; Sp. p. 5384; Gaz. vol. 147; p. 919.
- Nolan, L., New York, N. Y. Folding table. No. 922,179; May 18; Sp. p. 4279; Gaz. vol. 142; p. 746.
- Nolan, T. A., Cincinnati, Ohio. Fireproof magazine for picture-films. No. 921,273; May 11; Sp. p. 2403; Gaz. vol. 142; p. 421.
- Nolan, T. A., Cincinnati, Ohio. Magazine for picture-films. No. 921,274; May 11; Sp. p. 2404; Gaz. vol. 142; p. 421.
- Noland, W. H., Fresno, assignor of one-third to E. A. Stallings and one-third to T. B. Hardy, Fresno county, Cal. Cap-stemmer and raisin-cleaner. No. 939,073; Nov. 2; Sp. p. 1328; Gaz. vol. 148; p. 216.
- Nöldner, B., Breslau, Germany. Pneumatic tire. No. 917,889; Apr. 13; Sp. p. 1869; Gaz. vol. 141; p. 341.
- Nole, E. P., Belle Vernon, Pa. Pipe-coupling. No. 917,111; Apr. 6; Sp. p. 300; Gaz. vol. 141; p. 55.
- Nolen, J. G. (See Hewitt and Nolen.)
- Nolen, J. G., assignor of one-half to F. B. Cook, Chicago, Ill. Electrical signaling system. No. 922,320; May 18; Sp. p. 4561; Gaz. vol. 142; p. 792.
- Nolen, J. G., assignor of one-half to F. B. Cook, Chicago, Ill. Signaling system. No. 933,197; Sept. 7; Sp. p. 356; Gaz. vol. 146; p. 57.



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- Nolen, J. G., assignor to J. E. Shepherd, Chicago, Ill. Signaling system. No. 927,377; July 6; Sp. p. 1347; Gaz. vol. 144; p. 224.
- Nolen, J. G., assignor to J. E. Shepherd, Chicago, Ill. Combined telephone and protective alarm system. No. 944,575; Dec. 23; Sp. p. 5495; Gaz. vol. 149; p. 953.
- Nolen, J. G., and J. E. Shepherd, Chicago, Ill. Fire-protection signal system. No. 939,293; Nov. 9; Sp. p. 1839; Gaz. vol. 148; p. 317.
- Nolen, J. G., and J. E. Shepherd, Chicago, Ill.; said Nolen assignor to said Shepherd. Fire-protection-signal system. No. 913,041; Feb. 23; Sp. p. 4171; Gaz. vol. 139; p. 755.
- Nolin, O., Golden, Colo. Ink-well. No. 912,880; Feb. 16; Sp. p. 3844; Gaz. vol. 139; p. 677.
- Noll, G. L., Winchester, Kans. Carpet-stretcher. No. 943,199; Dec. 14; Sp. p. 2511; Gaz. vol. 149; p. 426.
- Noll, J., Brooklyn, assignor to Empire Talking Machine Company, New York, N. Y. Apparatus for reproducing sound. No. 919,293; Apr. 20; Sp. p. 4995; Gaz. vol. 141; p. 837.
- Noll, J. L., St. Jacob, Ill. Fence. No. 910,950; Jan. 26; Sp. p. 5134; Gaz. vol. 138; p. 925.
- Nolley, D. D., assignor of one-third to J. C. Hales and one-third to J. B. Farmer, Wilson, N. C. Bottle-filling faucet. No. 941,268; Nov. 23; Sp. p. 6227; Gaz. vol. 148; p. 1044.
- Nolte, F., Easton, Minn. Grinding-mill. No. 937,950; Oct. 26; Sp. p. 4899; Gaz. vol. 147; p. 846.
- Nonneman, I. W., assignor to Borden Company, Warren, Ohio. Adjustable die-stock. No. 914,503; Mar. 9; Sp. p. 1781; Gaz. vol. 140; p. 306.
- Noodt, V. A., Hamburg, and G. Götsche, Altona, Germany; said Götsche assignor to said Noodt. Producing insulating bodies. No. 941,585; Nov. 30; Sp. p. 6904; Gaz. vol. 148; p. 1168.
- Noonan, A. E., assignor to L. M. Rumsey Mfg. Co., St. Louis, Mo. Connection for float-balls and float-valves. No. 938,071; Oct. 26; Sp. p. 5159; Gaz. vol. 147; p. 886.
- Noonan, A. S., Rome, N. Y. Valve-truing tool. No. 926,957; July 6; Sp. p. 526; Gaz. vol. 144; p. 85.
- Noonan, A. S., Rome, N. Y. Rack. No. 930,410; Aug. 10; Sp. p. 1586; Gaz. vol. 145; p. 287.
- Noonan, A. W., Britt, Iowa. Neck-yoke center. No. 912,153; Feb. 9; Sp. p. 2296; Gaz. vol. 139; p. 398.
- Noonan, F. R., Alexandria, Minn. Cooler and aerator. No. 930,786; Aug. 10; Sp. p. 2389; Gaz. vol. 145; p. 413.
- Noonan, J. F., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine or device for cleaning insoles. No. 914,448; Mar. 9; Sp. p. 1681; Gaz. vol. 140; p. 288.
- Noonen, C. W. (See Christensen and Noonen.)
- Noppel, E., Philadelphia, Pa. Overflow-stop for lift and force pumps. No. 927,003; July 6; Sp. p. 618; Gaz. vol. 144; p. 101.
- Norcross, B. F., Waltham, Mass. Tire. No. 942,097; Dec. 7; Sp. p. 131; Gaz. vol. 149; p. 21.
- Norcross, C. S., Bushnell, Ill. Cultivating attachment. No. 931,333; Aug. 17; Sp. p. 3628; Gaz. vol. 145; p. 626.
- Nord, J., Utrecht, and N. T. Hillen, Arnheim, Netherlands. Surgical bandage. No. 933,916; Sept. 14; Sp. p. 1952; Gaz. vol. 146; p. 321.
- Nordberg, B. V., Milwaukee, Wis. Engine-valve. No. 914,747; Mar. 9; Sp. p. 2312; Gaz. vol. 140; p. 387.
- Nordberg, B. V., Milwaukee, Wis. Compressed-air engine. No. 926,819; July 6; Sp. p. 233; Gaz. vol. 144; p. 38.
- Nordberg, B. V., Milwaukee, Wis. Valve mechanism for blowing-engines. No. 927,274; July 6; Sp. p. 1171; Gaz. vol. 144; p. 192.
- Norddeutsche Wollkammerei und Kammgarnspinnerei. (See Kröger, C., assignor.)
- Nordeen, A., assignor to Ray Piano Company, Newcastle, Ind. Pneumatic piano. No. 916,764; Mar. 30; Sp. p. 6276; Gaz. vol. 140; p. 1123.
- Nordeen, A., assignor to Ray Piano Company, Newcastle, Ind. Pneumatic piano. No. 916,765; Mar. 30; Sp. p. 6279; Gaz. vol. 140; p. 1123.
- Nordeen, A., assignor to Ray Piano Company, Newcastle, Ind. Rewinding mechanism for pneumatic pianos. No. 925,130; June 15; Sp. p. 4336; Gaz. vol. 143; p. 740.
- Norden, M., assignor of one-half to himself and one-half to S. Heineman, New York, N. Y. Electric-light socket. No. 912,720; Feb. 16; Sp. p. 3543; Gaz. vol. 139; p. 627.
- Norden, M., assignor of one-half to himself and one-half to S. Heineman, New York, N. Y. Illuminated sign. No. 912,721; Feb. 16; Sp. p. 3544; Gaz. vol. 139; p. 628.
- Nordgren, C. E., Merced, and J. Y. Jones, Jr., Fresno, Cal. Carpet and linoleum stretcher. No. 913,545; Feb. 23; Sp. p. 5194; Gaz. vol. 139; p. 925.
- Nordhaus, W. H., assignor of one-half to American Key Can Company, and one-fourth to A. Weidenbauer, Chicago, Ill. Can-testing apparatus. No. 937,540; Oct. 19; Sp. p. 4073; Gaz. vol. 147; p. 692.
- Nordholt, O. S. (See Perry and Nordholt.)
- Nordhouse, J., trustee. (See Beatty, W. A., assignor.)
- Nordlie, J. E., assignor of one-fourth to O. Brown and one-eighth to O. C. Brown, Minneapolis, Minn. Combination-tool. No. 930,411; Aug. 10; Sp. p. 1588; Gaz. vol. 145; p. 288.
- Nordlinger, I. B. (See Heupel, F. K., assignor.)
- Nordlund, A., Warroad, Minn. Nut-lock. No. 929,322; July 27; Sp. p. 5470; Gaz. vol. 144; p. 950.
- Nordskog, S., Story City, Iowa. Combined paper holder and cutter. No. 916,000; Mar. 23; Sp. p. 4815; Gaz. vol. 140; p. 851.
- Nordstrom, C., Chicago, Ill. Cream-separator. No. 915,209; Mar. 16; Sp. p. 3232; Gaz. vol. 140; p. 564.
- Nordström, W. H. (See Qvist and Nordström.)
- Nordt, J. C. (See Ackerman, H., assignor.)
- Nordyke & Marmon Company. (See Marmon, H. C., assignor.)
- Noreau, G., assignor of one-half to A. Cummings, Quebec, Quebec, Canada. Locomotive electric alarm system. No. 910,222; Jan. 19; Sp. p. 3623; Gaz. vol. 138; p. 659.
- Noren, J. G., Valparaiso, Ind. Bag. No. 933,332; Sept. 7; Sp. p. 680; Gaz. vol. 146; p. 105.
- Norgell, T., Chicago, Ill. Envelop. No. 921,275; May 11; Sp. p. 2405; Gaz. vol. 142; p. 421.
- Norgord, J. E., Rockdale, Wis. Letter-box. No. 916,766; Mar. 30; Sp. p. 6281; Gaz. vol. 140; p. 1123.
- Norland, C., Los Angeles, Cal. Automatic governor for air-compressors. No. 908,692; Jan. 5; Sp. p. 553; Gaz. vol. 138; p. 86.
- Norlie, C., Chicago, Ill. Cattle-stanchion. No. 918,582; Apr. 20; Sp. p. 3307; Gaz. vol. 141; p. 601.
- Norling, R. A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Throttle-valve for pneumatic hammers. No. 910,223; Jan. 19; Sp. p. 3625; Gaz. vol. 138; p. 659.
- Norling, R. A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Reversible drill-throttle. No. 910,224; Jan. 19; Sp. p. 3628; Gaz. vol. 138; p. 659.
- Norling, R. A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Pneumatic motor. No. 935,537; Sept. 28; Sp. p. 5170; Gaz. vol. 146; p. 907.
- Normal-Zeit Gesellschaft mit beschränkter Haftung. (See Puttkammer, Orthmann, and Schindler assignors.)
- Norman, C. V., and G. Peterson, Springfield, Mass. Chalk-holder. No. 939,156; Nov. 2; Sp. p. 1512; Gaz. vol. 148; p. 245.
- Norman, H., Fowler, Kans. Mower. No. 922,319; May 18; Sp. p. 4559; Gaz. vol. 142; p. 792.
- Norman, J. F. (See Laeuffer, Thomas, and Norman.)
- Norman, J. F., Knoxville, Ark. Clothes-pin. No. 942,971; Dec. 14; Sp. p. 2019; Gaz. vol. 149; p. 349.
- Norman, J. F., Lima, Ohio. Composition of matter. No. 943,157; Dec. 14; Sp. p. 2434; Gaz. vol. 149; p. 414.
- Norman, J. F., assignor to Lima Brake Shoe Co., Lima, Ohio. Brake-shoe. No. 909,015; Jan. 5; Sp. p. 1195; Gaz. vol. 138; p. 191.
- Normand, M. A., assignor to Ateliers et Chantiers Augustin Normand, Havre, France. Petrol-heated steam-generator. No. 926,958; July 6; Sp. p. 528; Gaz. vol. 144; p. 86.
- Normandin, L. P., Jackson, Mich. Potato-digger. No. 916,479; Mar. 30; Sp. p. 5735; Gaz. vol. 140; p. 1035.
- Normandin, L. P., assignor to W. F. Cowham, Jackson, Mich. Cement-block-molding machine. No. 944,272; Dec. 28; Sp. p. 4789; Gaz. vol. 149; p. 847.
- Norpoth, T., St. Louis, Mo. Electric alarm. No. 914,172; Mar. 2; Sp. p. 1116; Gaz. vol. 140; p. 174.
- Norpoth, T., St. Louis, Mo. Electric alarm. No. 914,173; Mar. 2; Sp. p. 1119; Gaz. vol. 140; p. 175.
- Norquist, E. E., assignor to Butler Manufacturing Company, Kansas City, Mo. Sheet-metal-culvert. No. 929,784; Aug. 3; Sp. p. 322; Gaz. vol. 145; p. 55.
- Norquist, G. H. (See Dorner and Norquist.)
- Norquist, J., Malmo, Nebr. Combination-tool. No. 944,812; Dec. 28; Sp. p. 6003; Gaz. vol. 149; p. 1033.
- Norrander, A., Clara City, Minn. Wheel. No. 916,480; Mar. 30; Sp. p. 5737; Gaz. vol. 140; p. 1035.
- Norricks, H. C., Muncie, Ind. Tool-holder. No. 940,185; Nov. 16; Sp. p. 3855; Gaz. vol. 148; p. 655.
- Norring, S. A. (See Hansen, V. J., assignor.)
- Norris, A. E., Cambridge, Mass. Hoisting and conveying apparatus. No. 922,807; May 25; Sp. p. 5578; Gaz. vol. 142; p. 980.
- Norris, A. E., Cambridge, Mass. Hoisting or conveying apparatus. No. 939,294; Nov. 9; Sp. p. 1846; Gaz. vol. 148; p. 318.
- Norris, A. F., and C. H., Boston, Mass. Pedal-action for musical instruments. No. 915,691; Mar. 16; Sp. p. 4211; Gaz. vol. 140; p. 726.
- Norris, C. H. (See Norris, A. F. and C. H.)
- Norris, C. W. (See Spellman, C. J., assignor.)
- Norris, F. C. (See Giles, W. F., assignor.)
- Norris, G. L., assignor to Standard Steel Works, Burnham, Pa. Apparatus for reducing pipes in ingots. No. 931,792; Aug. 24; Sp. p. 4600; Gaz. vol. 145; p. 797.

*Alphabetical list of patentees—Continued.*

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 Norris, J., Jr., Quail, Tex. Kafr-corn-heading machine. No. 923,691; June 1; Sp. p. 1274; Gaz. vol. 143; p. 198.  
 Norris, J. T., assignor of one-half to C. C. Wade, Troy, N. C. Electric trap for rats, &c. No. 909,814; Jan. 12; Sp. p. 2779; Gaz. vol. 138; p. 489.  
 Norris, T., and E. J. Marshall, assignors to Southern Shovel Manufacturing Company, Gadsden, Ala. Shovel, spade, and like implement. No. 933,333; Sept. 7; Sp. p. 682; Gaz. vol. 146; p. 105.  
 Norris, W. (See Scott-King and Norris.)  
 Norris, W. G., Seattle, Wash. Safe or vault. No. 940,268; Nov. 16; Sp. p. 4020; Gaz. vol. 148; p. 685.  
 Norris, W. M., Edwards, Miss. Log-wagon. No. 940,547; Nov. 16; Sp. p. 4678; Gaz. vol. 148; p. 778.  
 Norris, W. P. (See Strance, Bull, and Norris.)  
 Norsk Hydro-Elektrisk Kvaelfaktieselskab. (See Halvorsen, B. F., assignor.)  
 Norstedt, D. (See Ball, J. D., assignor.)  
 Norstrom, J. K., assignor of one-third to E. A. Wilkinson and one-third to D. D. Healy, Chicago, Ill. Gasolene-lamp. No. 915,692; Mar. 16; Sp. p. 4214; Gaz. vol. 140; p. 726.  
 Norstrom, N. E., Chicago, Ill., assignor to Anderson Electric and Manufacturing Company. Calling device for telephone-exchanges. No. 935,049; Sept. 28; Sp. p. 4169; Gaz. vol. 146; p. 747.  
 Nortemann, E. (See Felock, J. E., assignor.)  
 North, A. A., assignor to Skinner Chuck Company, New Britain, Conn. Chuck. No. 932,996; Aug. 31; Sp. p. 7077; Gaz. vol. 145; p. 1217.  
 North American Reduction Company. (See Reilly, R. G., assignor.)  
 North Bro's M'fg Co. (See Fegley, T. J., assignor.)  
 North Bro's M'fg Co. (See Fegley and Leopold, assignors.)  
 North Bro's M'fg Co. (See Leopold, G. O., assignor.)  
 North Brothers Manufacturing Company. (See North, S. G., assignor.)  
 North Electric Company. (See Clement, E. E., assignor.)  
 North Electric Company. (See Engle, J. F., assignor.)  
 North Electric Company. (See Faller, E. A., assignor.)  
 North Jersey Paint Company. (See Edison, T. A., assignor.)  
 North and Judd Manufacturing Company. (See Monier, F. C., assignor.)  
 North & Judd Manufacturing Company. (See Nearing, G. H., assignor.)  
 North & Judd Mfg. Company. (See Smith, C. E., assignor.)  
 North, P., Lakewood, assignor to Chamberlin Cartridge and Target Company, Cleveland, Ohio. Target-trap throwing-arm. No. 934,093; Sept. 14; Sp. p. 2292; Gaz. vol. 146; p. 376.  
 North, R., Oxford Street, London, England, assignor to R. C. Campbell, Chicago, Ill., and London, England. Machine for printing and issuing tickets and registering fares. No. 939,295; Nov. 9; Sp. p. 1851; Gaz. vol. 148; p. 318.  
 North, R., Paris, France, assignor to R. C. Campbell, Chicago, Ill., and London, England. Registering apparatus. No. 939,296; Nov. 9; Sp. p. 1860; Gaz. vol. 148; p. 319.  
 North, R., Paris, France, assignor to R. C. Campbell, Chicago, Ill., and London, England. Ticket printing and issuing machine. No. 939,297; Nov. 9; Sp. p. 1867; Gaz. vol. 148; p. 319.  
 North, R. A., assignor to R. J. Dowd, Beloit, Wis. Bed-plate for beater-engines. No. 909,653; Jan. 12; Sp. p. 2460; Gaz. vol. 138; p. 436.  
 North, S. G., Philadelphia, Pa., assignor to North Brothers Manufacturing Company. Screw-holder for screw-drivers. No. 914,174; Mar. 2; Sp. p. 1121; Gaz. vol. 140; p. 175.  
 North, S. H., Syracuse, N. Y. Smoke-consumer. No. 934,415; Sept. 14; Sp. p. 2910; Gaz. vol. 146; p. 486.  
 North, T. M., assignor to Linotype and Machinery Limited, London, England. Sheet-delivery mechanism for printing-machines. No. 935,538; Sept. 28; Sp. p. 5173; Gaz. vol. 146; p. 907.  
 North, T. M., assignor to Linotype and Machinery Limited, London, England. Sheet-inverting apparatus especially applicable for use in connection with printing-machines. No. 936,151; Oct. 5; Sp. p. 1158; Gaz. vol. 147; p. 176.  
 North Wales Machine Co. (See Whitaker, J., assignor.)  
 Northbrooke, M. J., New York, N. Y., assignor to International Phosphate Co. Machine for reducing slag from iron-furnaces for fertilizing purposes. No. 918,768; Apr. 20; Sp. p. 3754; Gaz. vol. 141; p. 666.  
 Northern Electrical Manufacturing Company. (See Coffman, W. M., assignor.)  
 Northern Electrical Manufacturing Company. (See Drohan, T. E., assignor.)  
 Northern Electrical Manufacturing Company. (See Jackson, C., assignor.)  
 Northern Electrical Manufacturing Company. (See Klein and Sperry, assignors.)  
 Northern Engineering Works. (See True, G. A., assignor.)  
 Northern Placer Machine Company. (See Rachelman, S., assignor.)  
 Northern Water Softener Company. (See Bartlett, K. W., assignor.)  
 Northrop, G. S., *et al.* (See Montague and Stewart, assignors.)  
 Northrop, H. N., Somerville, Mass. Hair-curler. No. 912,154; Feb. 9; Sp. p. 2297; Gaz. vol. 139; p. 398.  
 Northrop, J. (See Draper and Northrop.)  
 Northrop, J., assignor to W. F. Draper, Hopedale, Mass. Protection mechanism for looms. No. 911,152; Feb. 2; Sp. p. 259; Gaz. vol. 139; p. 45.  
 Northrop, J., assignor to W. F. Draper, Hopedale, Mass. Let-off mechanism for looms. No. 912,722; Feb. 16; Sp. p. 3545; Gaz. vol. 139; p. 628.  
 Northrop, J., assignor to W. F. Draper, Hopedale, Mass. Automatically-threading loom-shuttle. No. 926,016; June 22; Sp. p. 6119; Gaz. vol. 143; p. 1059.  
 Northrop, J., assignor to W. F. Draper, Hopedale, Mass. Loom-shuttle. No. 926,017; June 22; Sp. p. 6126; Gaz. vol. 143; p. 1058.  
 Northrop, J., assignor to W. F. Draper, Hopedale, Mass. Filling-replenishing loom. No. 926,354; June 29; Sp. p. 6843; Gaz. vol. 143; p. 1204.  
 Northrop, J., assignor to W. F. Draper, Hopedale, Mass. Let-off mechanism for looms. No. 941,380; Nov. 30; Sp. p. 6472; Gaz. vol. 148; p. 1102.  
 Northrop, J., Hopedale, Mass., assignor to Draper Company, Portland, Me. Weft-feeler for looms. No. 911,672; Feb. 9; Sp. p. 1292; Gaz. vol. 139; p. 242.  
 Northrop, J., and E. S. Wood, assignors to W. F. Draper, Hopedale, Mass. Automatic filling-replenishing loom. No. 926,015; June 22; Sp. p. 6113; Gaz. vol. 143; p. 1057.  
 Northrop, J., and E. S. Wood, assignors to W. F. Draper, Hopedale, Mass. Loom-shuttle. No. 926,678; June 29; Sp. p. 7431; Gaz. vol. 143; p. 1311.  
 Northrup, G. W., Brainerd, Minn. Door-lock. No. 929,474; July 27; Sp. p. 5740; Gaz. vol. 144; p. 1007.  
 Northwest Metallurgical Company. (See Ludwick, W. D., assignor.)  
 Northwestern Expanded Metal Company. (See McCullough, E., assignor.)  
 Northwestern Expanded Metal Company. (See Mooney, C. S., assignor.)  
 Northwestern Expanded Metal Company. (See Mooney and Jantusek, assignors.)  
 Norton, B. H. (See Eddy, C. F. A., assignor.)  
 Norton, C. E., assignor to J. T. Bergman, Chicago, Ill. Lantern-bail. No. 917,112; Apr. 6; Sp. p. 302; Gaz. vol. 141; p. 55.  
 Norton, C. H., J. C. Spence, and H. N. Cudworth, assignors to Norton Grinding Company, Worcester, Mass. Machine for grinding. No. 940,548; Nov. 16; Sp. p. 4680; Gaz. vol. 148; p. 779.  
 Norton, C. H., J. C. Spence, and H. N. Cudworth, assignors to Norton Grinding Company, Worcester, Mass. Reversing device. No. 940,549; Nov. 16; Sp. p. 4682; Gaz. vol. 148; p. 779.  
 Norton, C. L., Manchester, Mass. Refractory material and producing the same. No. 926,820; July 6; Sp. p. 241; Gaz. vol. 144; p. 33.  
 Norton, C. L., Manchester, Mass. Self-filtering composition. No. 929,002; July 27; Sp. p. 4756; Gaz. vol. 144; p. 852.  
 Norton, C. L., Manchester, Mass. Composition for producing refractory material. No. 929,003; July 27; Sp. p. 4759; Gaz. vol. 144; p. 852.  
 Norton, C. L., Manchester, Mass. Agglomerating fibrous material. No. 929,004; July 27; Sp. p. 4761; Gaz. vol. 144; p. 852.  
 Norton Company. (See Hall, S. F., assignor.)  
 Norton, E., New York, N. Y. Top for tin cans. No. 933,103; Sept. 7; Sp. p. 139; Gaz. vol. 146; p. 23.  
 Norton, E., New York, N. Y. Tin-plate-finishing machine. No. 940,715; Nov. 23; Sp. p. 5034; Gaz. vol. 148; p. 860.  
 Norton, E., Lake Placid, N. Y. Manufacturing sheet-metal cans. No. 933,104; Sept. 7; Sp. p. 142; Gaz. vol. 146; p. 23.  
 Norton, E., Lake Placid, N. Y. Crate or binder for tin plates. No. 933,105; Sept. 7; Sp. p. 144; Gaz. vol. 146; p. 24.  
 Norton, E., New York, N. Y., and L. C. Krummel, Clinton, Conn. Sheet-metal-working press. No. 941,806; Nov. 30; Sp. p. 7390; Gaz. vol. 148; p. 1244.  
 Norton, F. E., Youngstown, Ohio. Air and gas compressor. No. 912,975; Feb. 16; Sp. p. 4031; Gaz. vol. 139; p. 707.  
 Norton, F. E., Youngstown, Ohio. Valve-gear for steam-engines. No. 919,207; Apr. 20; Sp. p. 4629; Gaz. vol. 141; p. 808.  
 Norton Grinding Company. (See Norton, Spence, and Cudworth, assignors.)  
 Norton, H. N., Mount Vernon, N. Y. Closure for containers. No. 937,847; Oct. 26; Sp. p. 4692; Gaz. vol. 147; p. 812.  
 Norton, J., Wigan, England. Safety appliance for colliery and other inclines. No. 931,078; Aug. 17; Sp. p. 3070; Gaz. vol. 145; p. 538.  
 Norton, L. C., Los Angeles, Cal. Transmission-gearing. No. 942,406; Dec. 7; Sp. p. 782; Gaz. vol. 149; p. 127.



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- Norton, S. J. (See Nail, J. L., assignor.)  
 Norton, W. F., and H. N. Reid, Sedalia, Mo. Emergency-brake. No. 941,335; Nov. 23; Sp. p. 6357; Gaz. vol. 148; p. 1064.  
 Norwall Manufacturing Company. (See Allen, E. P., assignor.)  
 Norwall Manufacturing Company. (See Bard, G. M., assignor.)  
 Norwood, H. Y., assignor to Taylor Instrument Companies, Rochester, N. Y. Case or support for fragile instruments. No. 921,149; May 11; Sp. p. 2147; Gaz. vol. 142; p. 378.  
 Norwood, I., New York, N. Y. Coffee-percolator bag. No. 933,917; Sept. 14; Sp. p. 1953; Gaz. vol. 146; p. 321.  
 Notman, C. A., Alliance, Ohio. Attachment for stoves. (Reissue.) No. 12,984; July 6; Sp. p. 1564; Gaz. vol. 144; p. 257.  
 Nott, J. V. H., Albany, N. Y. Lead-pencil. No. 918,359; Apr. 13; Sp. p. 2830; Gaz. vol. 141; p. 501.  
 Nott, S. C., La Grange, Ill. Loose-leaf binder. No. 919,453; Apr. 27; Sp. p. 5353; Gaz. vol. 141; p. 925.  
 Notz, F., and G. Royan, Chicago, Ill.; said Royan assignor to said Notz. Belt-shifter. No. 917,480; Apr. 6; Sp. p. 1027; Gaz. vol. 141; p. 179.  
 Noullet, F. A., New Orleans, La. Pile. No. 926,505; June 29; Sp. p. 7104; Gaz. vol. 143; p. 1254.  
 Novak, M. (See Escalles and Novak.)  
 Novel Idea Company. (See Tolman and Taylor, assignors.)  
 Novelty Cutlery Company. (See Vignos, A. A., assignor.)  
 Novelty Hosiery Company. (See Hirner, E. A., assignor.)  
 Novero, T., Spezia, Italy. Buoyant mechanical submarine mine. No. 928,789; July 20; Sp. p. 4321; Gaz. vol. 144; p. 753.  
 Noville, W., Cleveland, Ohio. Lock. No. 919,627; Apr. 27; Sp. p. 5729; Gaz. vol. 141; p. 985.  
 Novoson, M. J., assignor to Modern Cap Manufacturing Company, St. Louis, Mo. Cover for caps and the like. No. 929,240; July 27; Sp. p. 5248; Gaz. vol. 144; p. 930.  
 Novotny, F. S., St. Paul, Minn., assignor of one-half to J. C. French, Burlington, Vt. Non-refillable bottle. No. 942,183; Dec. 7; Sp. p. 335; Gaz. vol. 149; p. 51.  
 Nowacke, W., and M. P. Loesser, Brooklyn, N. Y. Hair-dressing device. No. 919,933; Apr. 27; Sp. p. 6362; Gaz. vol. 141; p. 1087.  
 Nowak, F., Chicago, Ill. Clothes-washing appliance. No. 920,987; May 11; Sp. p. 1816; Gaz. vol. 142; p. 323.  
 Noye Manufacturing Company. (See Wilson, J. A., Jr., assignor.)  
 Noyes, B. J., Boston, assignor to T. N. Tripp, trustee, Lynn, Mass. Pulp-separator. No. 916,481; Mar. 30; Sp. p. 5738; Gaz. vol. 140; p. 1036.  
 Noyes, B. J., Boston, assignor to T. N. Tripp, trustee, Lynn, Mass. Ironing and drying device for paper-making machines. No. 916,482; Mar. 30; Sp. p. 5740; Gaz. vol. 140; p. 1036.  
 Noyes, C. H., Omaha, Nebr. Steam-drier. No. 943,840; Dec. 21; Sp. p. 3886; Gaz. vol. 149; p. 676.  
 Noyes, C. T., Sacramento, Cal. Oil-burner. No. 916,887; Mar. 30; Sp. p. 6508; Gaz. vol. 140; p. 1163.  
 Noyes, E. P., Winchester, assignor to C. F. Brown, trustee, Reading, Mass. Differential liquid-level apparatus. No. 909,206; Jan. 12; Sp. p. 1598; Gaz. vol. 138; p. 287.  
 Noyes, J. B., St. Louis, Mo. Knockdown crate. No. 928,471; July 20; Sp. p. 3690; Gaz. vol. 144; p. 649.  
 Noyes, L. W., Chicago, Ill. Engine. No. 929,695; Aug. 3; Sp. p. 109; Gaz. vol. 145; p. 21.  
 Noyes, L. W., Chicago, Ill. Frame for internal-combustion engines. No. 936,558; Oct. 12; Sp. p. 2029; Gaz. vol. 147; p. 334.  
 Nuernberg, J. C. (See Hamilton, C. F., assignor.)  
 Nuernberg, J. C., assignor of one-half to C. F. Hamilton, Athens, Wis. Phonograph. No. 930,683; Aug. 10; Sp. p. 2176; Gaz. vol. 145; p. 379.  
 Nuernberger, P. G., and G. Rettig, Jr., assignors to Universal Automatic Typecasting Machine Company, Chicago, Ill. Type-casting machine. No. 913,546; Feb. 23; Sp. p. 5195; Gaz. vol. 139; p. 926.  
 Nuessen, G. J., Andale, Kans. Device for bundling bags. No. 931,468; Aug. 17; Sp. p. 3896; Gaz. vol. 145; p. 672.  
 Nugent, M., assignor of one-third to B. F. Rogers, East Quogue, N. Y. Mail-bag catcher and deliverer. No. 920,628; May 4; Sp. p. 1080; Gaz. vol. 142; p. 175.  
 Nugent, R. C., assignor to Nugent Tool Company, Cincinnati, Ohio. Screw-cutting machine. No. 942,791; Dec. 7; Sp. p. 1561; Gaz. vol. 149; p. 257.  
 Nugent Tool Company. (See Marfield, P. B., assignor.)  
 Nugent Tool Company. (See Nugent, R. C., assignor.)  
 Nugent, W., Denver, Colo. Surveying or leveling instrument. No. 919,934; Apr. 27; Sp. p. 6363; Gaz. vol. 141; p. 1088.  
 Nulff, C. M., and G. M. Jackson, Frankton, Ind. Apparatus for treating butter. No. 940,716; Nov. 23; Sp. p. 5037; Gaz. vol. 148; p. 860.  
 Null, J., Evanston, Ill. Window-cleaner. No. 934,007; Sept. 14; Sp. p. 2114; Gaz. vol. 146; p. 349.  
 Nulty, J. T., Philadelphia, Pa. Spike and chair for railway-rails. No. 942,658; Dec. 7; Sp. p. 1304; Gaz. vol. 149; p. 213.  
 Nummedahl, W., West Concord, Minn. Elevated carrier. No. 926,283; June 29; Sp. p. 6695; Gaz. vol. 143; p. 1181.  
 Nummy, B. F., assignor of one-half to W. M. Parker, Billingsley, Ala. Fence-clamp. No. 937,260; Oct. 19; Sp. p. 3471; Gaz. vol. 147; p. 599.  
 Nunamaker, H. S., Cleveland, Ohio. Drafting and engraving machine. No. 943,886; Dec. 21; Sp. p. 3979; Gaz. vol. 149; p. 691.  
 Nungesser, J. A., Galion, Ohio. Bag-holder. No. 924,923; June 15; Sp. p. 3920; Gaz. vol. 143; p. 669.  
 Nunn, J. W., Denver, Colo. Musical device. No. 935,539; Sept. 28; Sp. p. 5177; Gaz. vol. 146; p. 908.  
 Nunn, T., Providence, R. I. Twisting-machine. No. 936,346; Oct. 12; Sp. p. 1542; Gaz. vol. 147; p. 264.  
 Nunnink, S. P., and F. L. Miller, Rosedale, Kans. Elevator-clamp. No. 930,412; Aug. 10; Sp. p. 1590; Gaz. vol. 145; p. 288.  
 Nurnberg, A. (See Arndt and Nurnberg.)  
 Nurse, R. R., assignor to M. E. Milligan, Millbrook, Ontario, Canada. Side roller-curtain for vehicle and like tops. No. 926,589; June 29; Sp. p. 7256; Gaz. vol. 143; p. 1283.  
 Nussbaum, M. (See Bradley, B. L., assignor.)  
 Nuss, A. H. (See Nuss, C. W. and A. H.)  
 Nuss, C. W. and A. H., Harrisburg, Pa. Drum-beater. No. 912,404; Feb. 16; Sp. p. 2854; Gaz. vol. 139; p. 518.  
 Nussbaum, L., Sr., New Iberia, La. Soap-holder for washboards. No. 932,313; Aug. 24; Sp. p. 5679; Gaz. vol. 145; p. 969.  
 Nutry & Cook Manufacturing Company. (See Nutry, J., assignor.)  
 Nutry, J., Brooklyn, N. Y. Money-box. No. 934,207; Sept. 14; Sp. p. 2520; Gaz. vol. 146; p. 416.  
 Nutry, J., Midland Park, N. J., assignor to Nutry & Cook Manufacturing Company, Brooklyn, N. Y. Money-box. No. 922,321; May 18; Sp. p. 4565; Gaz. vol. 142; p. 793.  
 Nutt, A. V., Denver, Colo. Tire-shield. No. 919,752; Apr. 27; Sp. p. 5976; Gaz. vol. 141; p. 1027.  
 Nuttall, J., Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Skate-wheel. No. 937,261; Oct. 19; Sp. p. 3472; Gaz. vol. 147; p. 600.  
 Nuttall, J., Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Roller-skate. No. 942,344; Dec. 7; Sp. p. 666; Gaz. vol. 149; p. 107.  
 Nuttall, J., Bury, and C. R. Seddon, Whitefield, near Manchester, England. Apparatus for piling paper. No. 920,079; Apr. 27; Sp. p. 6674; Gaz. vol. 141; p. 1135.  
 Nutting, C. E., assignor to Draper Company, Hopedale, Mass. Filling-exhaustion-indicating mechanism for looms. No. 912,257; Feb. 9; Sp. p. 2499; Gaz. vol. 139; p. 430.  
 Nutting, G., and J. J. Smith, assignors to New York Standard Watch Company, Jersey City, N. J. Watch-movement. No. 917,788; Apr. 13; Sp. p. 1660; Gaz. vol. 141; p. 397.  
 Nutting, L. B., Pelham, assignor to Power Specialty Company, New York, N. Y. Steam-superheater. No. 921,878; May 18; Sp. p. 3683; Gaz. vol. 142; p. 649.  
 Nutting, W. L., Greenville, N. H. Display-rack. No. 918,080; Apr. 13; Sp. p. 2280; Gaz. vol. 141; p. 409.  
 Nutz, G. W., Brooklyn, N. Y. Lubricator. No. 920,629; May 4; Sp. p. 1082; Gaz. vol. 142; p. 176.  
 Nya Akkumulator Aktiebolaget Jungner. (See Jungner, E. W., assignor.)  
 Nyberg, C. S., Mariestad, Södertälje, Sweden, assignor to Badische Maschinenfabrik & Eisengiesserei vorm. G. Sebold und Sebold & Neff, Durlach, Germany. Machine for pasting the inner boxes or slides of match-boxes. No. 943,158; Dec. 14; Sp. p. 2435; Gaz. vol. 149; p. 414.  
 Nye, R. Z., Lansdale, Pa. Safety-envelop. No. 935,270; Sept. 28; Sp. p. 4616; Gaz. vol. 146; p. 821.  
 Nye, E. E., Los Angeles, Cal. Annunciator. No. 935,320; Sept. 28; Sp. p. 4717; Gaz. vol. 146; p. 837.  
 Nye, G. E., Chicago, Ill. Vacuum-pump. No. 932,166; Aug. 24; Sp. p. 5397; Gaz. vol. 145; p. 921.  
 Nye, G. E., assignor to Nye Steam Pump & Machinery Co., Chicago, Ill. Steam vacuum-pump. No. 944,984; Dec. 28; Sp. p. 6353; Gaz. vol. 149; p. 1090.  
 Nye, J. R., Waterville, Me. Carbureter. No. 940,652; Nov. 16; Sp. p. 4885; Gaz. vol. 148; p. 813.  
 Nye Steam Pump & Machinery Co. (See Nye, G. E., assignor.)  
 Nyhus, E., et al. (See Gwinn and Hovick, assignors.)  
 Nylin, E. H., New York, N. Y. Combination-tool. No. 914,601; Mar. 9; Sp. p. 1988; Gaz. vol. 140; p. 339.  
 Nyquist, G. E., Oaklawn, Ill. Wrecking-frog. No. 912,155; Feb. 9; Sp. p. 2299; Gaz. vol. 139; p. 899.  
 Nystrom, C. L., Minneapolis, Minn. Miter-box. No. 930,684; Aug. 10; Sp. p. 2173; Gaz. vol. 145; p. 380.  
 Nystrom, M., and L. Taxon, Chicago, Ill., assignors to Veneer Machinery Company, Grand Rapids, Mich. Veneer-taping machine. No. 942,277; Dec. 7; Sp. p. 532; Gaz. vol. 149; p. 83.

*Alphabetical list of patentees—Continued.*

- O. A. Miller Treering Machine Company. (See Hansen, J. S., assignor.)  
 O. A. Miller Treering Machine Company. (See McGann, T. F., assignor.)  
 O. K. Harry Steel Co. (See Harry, O. K., assignor.)  
 O. K. Paper Pail Company. (See Tiffany, A. R., assignor.)  
 O. K. Paper Pail Company. (See Tiffany, C. I., assignor.)  
 O'Bannon, W. H., and J. M. Field, San Angelo, Tex.; said Field assignor to said O'Bannon. Spring-motor. No. 935,540; Sept. 28; Sp. p. 5179; Gaz. vol. 146; p. 308.  
 O'Blensess, H. C., Athens, Ohio. Forming-machine. No. 928,616; July 20; Sp. p. 3985; Gaz. vol. 144; p. 695.  
 O'Brien, A., assignor to E. O'Brien, Chicago, Ill. Automatically-closing cock. No. 912,022; Feb. 9; Sp. p. 2046; Gaz. vol. 139; p. 356.  
 O'Brien, A. E. (See Ware, J. L., assignor.)  
 O'Brien, A. J., Beloit, Wis. Gas-generating oil-burner. No. 916,185; Mar. 23; Sp. p. 5150; Gaz. vol. 140; p. 911.  
 O'Brien, B. S., and H. M. Wheat, Louisville, Ky. Trousers presser and stretcher. No. 920,988; May 11; Sp. p. 1818; Gaz. vol. 142; p. 323.  
 O'Brien, C. H., Augusta, Me. Electrical apparatus for producing sound-signals. No. 926,284; June 29; Sp. p. 6698; Gaz. vol. 143; p. 1181.  
 O'Brien, D. (See Beattie, J., assignor.)  
 O'Brien, D. L. (See Smith and O'Brien.)  
 O'Brien, D. P., Woburn, Mass. Sharpening apparatus. No. 929,785; Aug. 3; Sp. p. 324; Gaz. vol. 145; p. 55.  
 O'Brien, E. (See O'Brien, A., assignor.)  
 O'Brien, E. and E., Jr., Eau Claire, Wis. Screening-grinder. No. 933,780; Sept. 14; Sp. p. 1669; Gaz. vol. 146; p. 276.  
 O'Brien, E. J., St. Louis, Mo. Cotton-seed-delinting machine. No. 927,586; July 13; Sp. p. 1806; Gaz. vol. 144; p. 322.  
 O'Brien, E. J., Jr. (See Nahm and O'Brien.)  
 O'Brien, J. D., Boston, Mass. Bag. No. 909,815; Jan. 12; Sp. p. 2780; Gaz. vol. 138; p. 489.  
 O'Brien, J. H., Ilion, N. Y., assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 938,690; Nov. 2; Sp. p. 538; Gaz. vol. 148; p. 83.  
 O'Brien, J. I., Elkton, S. D. Shingling-gage. No. 936,152; Oct. 5; Sp. p. 1162; Gaz. vol. 147; p. 176.  
 O'Brien, M. (See Irven and O'Brien.)  
 O'Brien, M. (See Jones and O'Brien.)  
 O'Brien, M., Lawrence, Kans. Gas-stove. No. 924,183; June 8; Sp. p. 2375; Gaz. vol. 143; p. 389.  
 O'Brien, M., assignor to United Railways Company, St. Louis, Mo. Combined door and step operating means for railway-cars. No. 933,574; Sept. 7; Sp. p. 1249; Gaz. vol. 146; p. 185.  
 O'Brien, M. P., Norwood, Ohio. Sign-board structure. No. 928,534; July 20; Sp. p. 3814; Gaz. vol. 144; p. 668.  
 O'Brien, P., *et al.* (See Thorin, F. A., assignor.)  
 O'Brien, P. W., *et al.* (See Polakowsky, F. V., assignor.)  
 O'Brien, T., New York, N. Y. Valve-gear. No. 934,750; Sept. 21; Sp. p. 3565; Gaz. vol. 146; p. 621.  
 O'Brien, T. H., Fond du Lac, Wis. Ribbon-roll clasp or guard. No. 914,449; Mar. 9; Sp. p. 1682; Gaz. vol. 140; p. 288.  
 O'Brien, W., assignor of one-half to L. Sieber, Woodland, Cal. Horseshoe. No. 919,294; Apr. 20; Sp. p. 4997; Gaz. vol. 141; p. 837.  
 O'Brien, W. C., assignor to Monitor Manufacturing Company of Baltimore City, Baltimore, Md. Starter for electric motors. (Reissue.) No. 12,947; Apr. 27; Sp. p. 6753; Gaz. vol. 141; p. 1143.  
 O'Brien, W. M. (See French and O'Brien.)  
 O'Brien, W. M. (See Harrison and O'Brien.)  
 O'Bryant, B. F., assignor of one-half to W. Harper, Collinsville, Ala. Balance-valve. No. 910,225; Jan. 19; Sp. p. 3632; Gaz. vol. 138; p. 660.  
 O'Connell, J. D., Marlboro, Mass. Poultry and hen feeder. No. 920,381; May 4; Sp. p. 596; Gaz. vol. 142; p. 95.  
 O'Connor, C. F., Chicago, Ill. Hinge device for window-sashes. No. 929,976; Aug. 3; Sp. p. 746; Gaz. vol. 145; p. 120.  
 O'Connor, J., Clifton, N. Y. Valve. No. 910,844; Jan. 26; Sp. p. 4933; Gaz. vol. 138; p. 891.  
 O'Connor, J., New York, N. Y. Tracker-board and note-sheet mechanism for mechanical musical instruments. No. 926,679; June 29; Sp. p. 7433; Gaz. vol. 143; p. 1311.  
 O'Connor, J., New York, N. Y. Expression device for mechanical musical instruments. No. 927,587; July 13; Sp. p. 1808; Gaz. vol. 144; p. 322.  
 O'Connor, J. F., New York, N. Y. Type-writer ribbon-spool. No. 928,001; July 13; Sp. p. 2696; Gaz. vol. 144; p. 460.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Antifriction center-bearing for railway-cars. No. 909,106; Jan. 5; Sp. p. 1395; Gaz. vol. 138; p. 222.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Antifriction side bearing for railway-cars. No. 909,107; Jan. 5; Sp. p. 1399; Gaz. vol. 138; p. 222.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Antifriction bearing for railway-cars or other vehicles. No. 909,108; Jan. 5; Sp. p. 1401; Gaz. vol. 138; p. 223.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Friction draft-rigging for railway-cars. No. 909,445; Jan. 12; Sp. p. 2044; Gaz. vol. 138; p. 364.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Friction draft-rigging for railway-cars. No. 909,446; Jan. 12; Sp. p. 2047; Gaz. vol. 138; p. 364.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Friction draft-rigging for railway-cars. No. 909,816; Jan. 12; Sp. p. 2781; Gaz. vol. 138; p. 490.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Friction draft-rigging. No. 911,901; Feb. 9; Sp. p. 1707; Gaz. vol. 139; p. 316.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Friction draft-rigging. No. 911,902; Feb. 9; Sp. p. 1708; Gaz. vol. 139; p. 316.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Friction draft-rigging. No. 913,759; Mar. 2; Sp. p. 176; Gaz. vol. 140; p. 29.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Draft-rigging. No. 914,176; Mar. 2; Sp. p. 1123; Gaz. vol. 140; p. 175.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Draw-bar and yoke connection for railway draft-rigging. No. 918,583; Apr. 20; Sp. p. 3308; Gaz. vol. 141; p. 601.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Friction draft-rigging for railway-cars. No. 922,617; May 25; Sp. p. 5193; Gaz. vol. 142; p. 919.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Friction draft-rigging for railway-cars. No. 922,618; May 25; Sp. p. 5195; Gaz. vol. 142; p. 919.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Friction draft-rigging for railway-cars. No. 922,619; May 25; Sp. p. 5198; Gaz. vol. 142; p. 920.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Friction-draft-rigging finishing and proving machine. No. 932,566; Aug. 31; Sp. p. 6212; Gaz. vol. 145; p. 1075.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Railway-car side-bearing and center-bearing testing machine. No. 932,567; Aug. 31; Sp. p. 6215; Gaz. vol. 145; p. 1076.  
 O'Connor, J. F., assignor to W. M. Miner Company, Chicago, Ill. Machine for testing and registering operation of draft-riggings. No. 935,162; Sept. 28; Sp. p. 4398; Gaz. vol. 146; p. 785.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Roller side bearing. No. 940,353; Nov. 16; Sp. p. 4230; Gaz. vol. 148; p. 713.  
 O'Connor, J. F., assignor to W. H. Miner Company, Chicago, Ill. Roller center-bearing. No. 940,819; Nov. 23; Sp. p. 5275; Gaz. vol. 148; p. 895.  
 O'Connor, M. J., Courtenay, N. D. Railway-rail joint. No. 913,839; Mar. 2; Sp. p. 338; Gaz. vol. 140; p. 57.  
 O'Connor, P. O., Hartford, Conn. Collapsible form or center. No. 942,922; Dec. 14; Sp. p. 1904; Gaz. vol. 149; p. 332.  
 O'Connor, W. H., Newark, N. J. Steam or other fluid pressure regulator. No. 941,092; Nov. 23; Sp. p. 5837; Gaz. vol. 148; p. 985.  
 O'Daniels, C. M., Seattle, Wash. Water-gage. No. 934,623; Sept. 21; Sp. p. 3332; Gaz. vol. 146; p. 580.  
 O'Donal, J. C., Dexter, Mo. Moistener for brooms and brushes. No. 930,879; Aug. 10; Sp. p. 2604; Gaz. vol. 145; p. 445.  
 O'Donnell, C. W., Loganton, Pa. Wagon-brake. No. 926,590; June 29; Sp. p. 7258; Gaz. vol. 143; p. 1283.  
 O'Donnell, F., Pawtucket, R. I. Welt-replenishing mechanism for looms. No. 916,362; Mar. 23; Sp. p. 5468; Gaz. vol. 140; p. 971.  
 O'Donnell, J. D., *et al.* (See Larsen, L. B., assignor.)  
 O'Donnell, J. J., Paducah, Ky. Railway-tie and rail-fastening. No. 916,186; Mar. 23; Sp. p. 5152; Gaz. vol. 140; p. 912.  
 O'Donnell, J. J., Paducah, Ky. Guard-rail fastening for railroads. No. 916,187; Mar. 23; Sp. p. 5154; Gaz. vol. 140; p. 912.  
 O'Donnell, J. P. (See Chaderiat, V., assignor.)  
 O'Donnell, J. P., Cleveland, Ohio. Elevator. No. 922,620; May 25; Sp. p. 5200; Gaz. vol. 142; p. 920.  
 O'Donnell, J. P., Cleveland, Ohio. Automatic stopping and locking device for elevators. No. 929,872; Aug. 3; Sp. p. 530; Gaz. vol. 145; p. 85.  
 O'Grady, J. J., Chicago, Ill. Bottle-stopper. No. 912,156; Feb. 9; Sp. p. 2300; Gaz. vol. 139; p. 399.  
 O'Hara, J., St. Louis, Mo. Portable sawing-machine. No. 910,145; Jan. 19; Sp. p. 3445; Gaz. vol. 138; p. 631.  
 O'Horo, P., assignor to A. J. Musselman, Chicago, Ill. Coaster-brake. (Reissue.) No. 13,023; Sept. 28; Sp. p. 5354; Gaz. vol. 146; p. 940.  
 O'Keefe, W., Elliston, Mont. Fire-escape construction. No. 928,325; July 20; Sp. p. 3413; Gaz. vol. 144; p. 600.



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 O'Kelly, D. B., Slocumb, Ala. Air-cushion seat. No. 936,934; Oct. 12; Sp. p. 2764; Gaz. vol. 147; p. 462.  
 O'Laughlin, M. C., assignor of two-fourths to E. R. Oeltjen and T. W. McNeely, Petersburg, Ill. Powder-keg. No. 921,880; May 18; Sp. p. 3686; Gaz. vol. 142; p. 649.  
 O'Leary, J., Cohoes, N. Y. Car-fender. No. 939,953; Nov. 9; Sp. p. 3303; Gaz. vol. 148; p. 545.  
 O'Leary, J., assignor of one-fourth to G. H. McDowell, Cohoes, N. Y. Car-fender. No. 939,952; Nov. 9; Sp. p. 3301; Gaz. vol. 148; p. 545.  
 O'Mahoney, D. J. (See Farley, G. A., assignor.)  
 O'Malley, E. J., McMechen, assignor of one-half to J. E. Wright, Wheeling, W. Va. Device for shutting off fluid-pressure. No. 909,016; Jan. 5; Sp. p. 1198; Gaz. vol. 138; p. 191.  
 O'Malley, J. F., Avoca, Pa. Combination-tool. No. 922,322; May 18; Sp. p. 4565; Gaz. vol. 142; p. 793.  
 O'Marra, M., Kingston, N. Y. Boltless rail-fastener. No. 920,383; May 4; Sp. p. 598; Gaz. vol. 142; p. 95.  
 O'Meara, J., New York, N. Y. Valve. No. 935,856; Oct. 5; Sp. p. 552; Gaz. vol. 147; p. 79.  
 O'Neal, D. W., San Francisco, Cal. Rail-tie. No. 916,770; Mar. 30; Sp. p. 6287; Gaz. vol. 140; p. 1124.  
 O'Neale, G. L., San Jose, Cal. Weed-burning car. No. 939,538; Nov. 9; Sp. p. 2410; Gaz. vol. 148; p. 400.  
 O'Neill, J. M., Dallas, Tex. Washing-machine. No. 919,629; Apr. 27; Sp. p. 5734; Gaz. vol. 141; p. 986.  
 O'Neill, C., *et al.* (See Robinson, J., assignor.)  
 O'Neill, D. J., Chicago, Ill. Non-refillable bottle. No. 913,840; Mar. 2; Sp. p. 338; Gaz. vol. 140; p. 57.  
 O'Neill, J. D., Jenkintown, Pa. Building construction. No. 927,273; July 6; Sp. p. 1175; Gaz. vol. 144; p. 192.  
 O'Neill, J. J., Richmond, Va. Ticket-holder. No. 909,110; Jan. 5; Sp. p. 1403; Gaz. vol. 138; p. 223.  
 O'Neill, M. L. (See Churchill and O'Neill.)  
 O'Neill, W., Milwaukee, Wis. Tire-armor. No. 924,924; June 15; Sp. p. 3921; Gaz. vol. 143; p. 670.  
 O'Neill, W. E., Norwich, N. Y. Extension plug or device for connecting electric conductors. No. 930,788; Aug. 10; Sp. p. 2392; Gaz. vol. 145; p. 414.  
 O'Neil, W. J., Akron, Ohio. Protector and reinforcement for pneumatic tires. No. 919,938; Apr. 27; Sp. p. 6368; Gaz. vol. 141; p. 1088.  
 O'Neill, C. A., Revere, Mass. Safety-razor. No. 927,588; July 13; Sp. p. 1812; Gaz. vol. 144; p. 323.  
 O'Neill, J., Lawrenceville, Ill. Three-way natural-gas burner. No. 912,881; Feb. 16; Sp. p. 3845; Gaz. vol. 139; p. 678.  
 O'Neill, J. H. (See Mulrooney, P., assignor.)  
 O'Reilly, W. B., New York, N. Y. Spoon-holder. No. 917,350; Apr. 6; Sp. p. 805; Gaz. vol. 141; p. 138.  
 O'Riley, J. (See McDonald, Anderson, and O'Riley.)  
 O'Rourke, J. F., New York, N. Y. Constructing foundations. No. 922,717; Aug. 31; Sp. p. 6544; Gaz. vol. 145; p. 1127.  
 O'Sullivan, J., Biddeford, Me., assignor to Draper Company, Hopedale, Mass. Take-up mechanism for looms. No. 913,969; Mar. 2; Sp. p. 656; Gaz. vol. 140; p. 104.  
 O'Thayne, P., New York, N. Y. Fire-escape. No. 922,323; May 18; Sp. p. 4567; Gaz. vol. 142; p. 793.  
 O'Toole, E., London, England. Torpedo. No. 909,321; Jan. 12; Sp. p. 1817; Gaz. vol. 138; p. 325.  
 O'Toole, J. F. (See Ryan and O'Toole.)  
 Oakes, B., Detroit, Mich. Sewer-trap. No. 914,066; Mar. 2; Sp. p. 883; Gaz. vol. 140; p. 137.  
 Oakes, F. S., *et al.* (See Larsen, F., assignor.)  
 Oakley, D. S., Parkersburg, W. Va. Belt abrasive-machine. No. 927,066; July 6; Sp. p. 776; Gaz. vol. 144; p. 123.  
 Oakley, J. A. (See Bangert and Oakley.)  
 Oakley, R. E. (See McAdams, N. J., assignor.)  
 Oakman, P. H., and H. A. Axtell, Shelburne Falls, Mass. Tool for holding disks for drilling. No. 928,275; July 20; Sp. p. 3308; Gaz. vol. 144; p. 584.  
 Oakman, H. B. (See Stratton, E. F., assignor.)  
 Oakville Company. (See Boden, G. assignor.)  
 Oatman, J. B. (See Hogan and Knetsch, assignors.)  
 Oatman, J. B., Riverside, Cal. Puncture-proof attachment for tires. No. 921,444; May 11; Sp. p. 2782; Gaz. vol. 142; p. 478.  
 Obdyke, B. P. (See Agar, C. B., assignor.)  
 Ober, A. L. (See Rathbone, F. D., assignor.)  
 Ober, F. S., New York, N. Y. Multiple-cluster-lamp receptacle. No. 925,830; June 22; Sp. p. 5760; Gaz. vol. 143; p. 997.  
 Ober, J. F., New Orleans, La. Railway-switch. No. 942,458; Dec. 7; Sp. p. 904; Gaz. vol. 149; p. 145.  
 Oberg, W. W., Georgetown, Minn. Saw-set. No. 921,150; May 11; Sp. p. 2148; Gaz. vol. 142; p. 378.  
 Oberly, J. L., *et al.* (See Turck, F. M., assignor.)  
 Oberly, R. S., New York, N. Y. Explosion power-hammer. No. 929,696; Aug. 3; Sp. p. 112; Gaz. vol. 145; p. 21.  
 Obermann, A. W., Johnstown, Pa. Ventilator. No. 935,681; Oct. 5; Sp. p. 125; Gaz. vol. 147; p. 20.  
 Obermeier, J. B., Milwaukee, Wis. Coin-controlled electric-circuit closer. No. 934,565; Sept. 21; Sp. p. 3202; Gaz. vol. 146; p. 558.  
 Obermiller, N. W., New York, N. Y. Time-stamp. No. 916,001; Mar. 23; Sp. p. 4816; Gaz. vol. 140; p. 852.  
 Oblinger, B. C., assignor of one-half to A. H. C. Beatty, Independence, Mo. Vehicle-wheel. No. 931,214; Aug. 17; Sp. p. 3363; Gaz. vol. 145; p. 584.  
 Occidental Fuel Company. (See Griffiths, G., assignor.)  
 Ochs, W. J., Jersey City, N. J. Composition of matter used for polishing purposes. No. 937,170; Oct. 19; Sp. p. 3269; Gaz. vol. 147; p. 570.  
 Occumpough, C. H., Rochester, N. Y. Elevator. No. 920,630; May 4; Sp. p. 1085; Gaz. vol. 142; p. 176.  
 Odam, E., assignor to Société des Applications de l'Acétylène, Paris, France. Blowpipe. No. 943,043; Dec. 14; Sp. p. 2202; Gaz. vol. 149; p. 374.  
 Oddur Manufacturing Company. (See Sigurdsson, O. V., assignor.)  
 Odell, G. E., Bowen, Ill. Stock-watering device. No. 922,943; May 25; Sp. p. 5883; Gaz. vol. 142; p. 1025.  
 Odell, L. J., assignor to G. A. Albrecht, Chicago, Ill. Type-writer. No. 932,167; Aug. 24; Sp. p. 5399; Gaz. vol. 145; p. 921.  
 Odell, M. A. V., Elkhorn, Wis. Carpet-securing means. No. 936,347; Oct. 12; Sp. p. 1544; Gaz. vol. 147; p. 265.  
 Odell, M. H., Newark, N. J., assignor to Newark Spring Mattress Company. Spring-mattress. No. 916,002; Mar. 23; Sp. p. 4819; Gaz. vol. 140; p. 852.  
 Odell, R. M., Hoisington, Kans. Egg-carton. No. 931,637; Aug. 17; Sp. p. 4206; Gaz. vol. 145; p. 722.  
 Oden, W. F., assignor of one-half to E. W. Clark, Ophir, Utah. Faucet. No. 937,541; Oct. 19; Sp. p. 4078; Gaz. vol. 147; p. 693.  
 Odenkirchen, H. F., New Haven, Conn. Valve-push-rod mechanism. No. 908,604; Jan. 5; Sp. p. 365; Gaz. vol. 138; p. 59.  
 Odgers, H. T., assignor to Columbus Pharmacal Company, Columbus, Ohio. Artificial leg. No. 923,798; June 1; Sp. p. 1569; Gaz. vol. 143; p. 234.  
 Odle, C. M., Faulkton, S. D. Velocipede. No. 920,382; May 4; Sp. p. 596; Gaz. vol. 142; p. 95.  
 Odom, E. T., Birmingham, Ala. Wave and tide motor. No. 917,647; Apr. 6; Sp. p. 1334; Gaz. vol. 141; p. 235.  
 Odquist, V., and H. H. Lyche; said Odquist assignor to Torris Wold & Company, Chicago, Ill. Double seamer. No. 926,591; June 29; Sp. p. 7259; Gaz. vol. 143; p. 1283.  
 Odquist, V., and H. H. Lyche; said Odquist assignor to Torris Wold & Company, Chicago, Ill. Lock-seamer. No. 926,592; June 29; Sp. p. 7266; Gaz. vol. 143; p. 1284.  
 Oeder, F. M., Bay City, Mich. Automatic switch mechanism. No. 924,687; June 15; Sp. p. 3427; Gaz. vol. 143; p. 590.  
 Oehm, F. A., San Francisco, Cal. Sandpapering and polishing machine. No. 925,942; June 22; Sp. p. 5982; Gaz. vol. 143; p. 1033.  
 Oehring, O., Berlin, Germany, assignor to American Stamp and Ticket Vending Machine Company, Incorporated, Washington, D. C. Feeding device for vending apparatus or the like. No. 929,161; July 27; Sp. p. 5093; Gaz. vol. 144; p. 905.  
 Oehring, O., Berlin, Germany, assignor to American Stamp and Ticket Vending Machine Company, Washington, D. C. Coin-switch for vending-machines. No. 943,562; Dec. 14; Sp. p. 3272; Gaz. vol. 149; p. 551.  
 Oehring, O., Berlin, Germany, assignor to American Stamp & Ticket Vending Machine Company, Washington, D. C. Coin-switch for vending-machines. No. 943,636; Dec. 14; Sp. p. 3475; Gaz. vol. 149; p. 578.  
 Oeltjen, E. R., *et al.* (See O'Laughlin, M. C., assignor.)  
 Oesterle, C., *et al.* (See Frank, W. V., assignor.)  
 Oesterreicher, A., Vienna, Austria-Hungary. Electrically-operated point-shifting mechanism. No. 926,507; June 29; Sp. p. 7107; Gaz. vol. 143; p. 1255.  
 Oesting, C. W., *et al.* (See Goldkamp, F. J., assignor.)  
 Oestreicher, H. H., and A. J. Clark, New York, N. Y. Cracker-sandwich machine. No. 915,469; Mar. 16; Sp. p. 3732; Gaz. vol. 140; p. 648.  
 Offenburg, M., assignor to Hercules Light & Chemical Co., Pittsburg, Pa. Mantle-holder. No. 932,636; Aug. 31; Sp. p. 6377; Gaz. vol. 145; p. 1100.  
 Office Specialties De Luxe. (See Shepherd, G. C., assignor.)  
 Offner, A. W., Versailles, Mo. Woodworker's clamp. No. 927,067; July 6; Sp. p. 779; Gaz. vol. 144; p. 124.  
 Offner, A. W., Versailles, Mo. Folding egg-grate. No. 929,162; July 27; Sp. p. 5094; Gaz. vol. 144; p. 905.  
 Offord, A. J., Grand Haven, Mich. Ice-cutting machine. No. 935,127; Sept. 28; Sp. p. 4337; Gaz. vol. 146; p. 774.  
 Offord, W. F., Cambridge, England. Truss and like surgical appliance. No. 917,113; Apr. 6; Sp. p. 303; Gaz. vol. 141; p. 55.  
 Offerdinger, H. T., Washington, D. C. Portable hot-fluid heating apparatus. No. 912,320; Feb. 16; Sp. p. 2676; Gaz. vol. 139; p. 490.

*Alphabetical list of patentees—Continued.*

- Offutt, W. M., and G. E. Hubbard, Terre Haute, Ind. Nut-lock. No. 911,063; Feb. 2; Sp. p. 81; Gaz. vol. 139; p. 15.
- Ogden, J. E., Penryn, Cal. Rail-fastener. No. 928,276; July 20; Sp. p. 3309; Gaz. vol. 144; p. 584.
- Ogden, S. W., Wooster, Ohio. Dust-receiver. No. 916,767; Mar. 30; Sp. p. 6282; Gaz. vol. 140; p. 1123.
- Ogden, W. L., Burlingame, Kans. Ice-creeper for horseshoes. No. 917,481; Apr. 6; Sp. p. 1028; Gaz. vol. 141; p. 179.
- Ogilvie, D. (See Kelly and Germain, assignor.)
- Ogilvie, D. D., Lee, Nev. Guard. No. 922,180; May 18; Sp. p. 4283; Gaz. vol. 142; p. 747.
- Ogilvie, G. S., Woodbridge, England. Wheel for road-vehicles. No. 934,341; Sept. 14; Sp. p. 2771; Gaz. vol. 146; p. 460.
- Ogilvie, G. S., Woodbridge, England. Wheel for motor-cars, &c. No. 934,416; Sept. 14; Sp. p. 2912; Gaz. vol. 146; p. 487.
- Ogle, R. A., Chicago, Ill. Water-crane. No. 913,909; Mar. 2; Sp. p. 513; Gaz. vol. 140; p. 83.
- Ogle, R. A., Chicago, Ill. Loader. No. 924,184; June 8; Sp. p. 2375; Gaz. vol. 143; p. 389.
- Ohe, F. (See Mason and Ohe.)
- Ohio Brass Company. (See Phillips and Averill, assignors.)
- Ohio Clay Company. (See Denison, W. C., assignor.)
- Ohio and Colorado Smelting and Refining Company. (See Weeks, F. D., assignor.)
- Ohio Cultivator Company. (See Dann and Ford, assignors.)
- Ohio Cultivator Company. (See Griffith, R. H., assignor.)
- Ohio Cultivator Company. (See Wygant, L. B., assignor.)
- Ohio Malleable Iron Company. (See Jeffrey, H., assignor.)
- Ohio Manufacturing Company. (See Kouns, M. W., assignor.)
- Ohio Manufacturing Company. (See Morton, S. S., assignor.)
- Ohio Manufacturing Company. (See Price, E. F., assignor.)
- Ohio Match Company. (See Young and Weaver, assignors.)
- Ohio Stove Pipe and Manufacturing Company. (See Metzger, R. A., assignor.)
- Ohio Varnish Company. (See Clapp, F. M., assignor.)
- Ohl, J. W., Niles, Ohio. Sliding-door hanger. No. 927,272; July 6; Sp. p. 1174; Gaz. vol. 144; p. 192.
- Ohlsen, H. and J., Loup City, Nebr. Brick-glazing compound. No. 921,879; May 18; Sp. p. 3685; Gaz. vol. 142; p. 649.
- Ohlsen, J. (See Ohlsen, H. and J.)
- Ohlsen, W., assignor to National Brake & Electric Company, Milwaukee, Wis. Engineer's valve. No. 938,169; Oct. 26; Sp. p. 5387; Gaz. vol. 147; p. 919.
- Ohlson, C., Sacramento, Cal. Letter and package mail-box. No. 922,181; May 18; Sp. p. 4284; Gaz. vol. 142; p. 147.
- Ohlson, J. (See Johnson, H., assignor.)
- Ohlson, J., *et al.* (See Thorin, P. A., assignor.)
- Ohlson, O., Newton, assignor to Waltham Watch Company, Waltham, Mass. Winding-indicator. No. 942,659; Dec. 7; Sp. p. 1305; Gaz. vol. 149; p. 214.
- Ohlsson, E., New York, N. Y. Wrench. No. 913,302; Feb. 23; Sp. p. 4697; Gaz. vol. 139; p. 843.
- Ohlsson, J. A., New York, N. Y. Liner for centrifugal separators. No. 929,697; Aug. 3; Sp. p. 117; Gaz. vol. 145; p. 22.
- Ohmer Fare Register Company. (See Ohmer, J. F., assignor.)
- Ohmer Fare Register Company. (See Ohmer and Bridenbaugh, assignors.)
- Ohmer, J. F., Dayton, Ohio, assignor to Ohmer Fare Register Company, Rochester, N. Y. Exterior operating mechanism. No. 911,517; Feb. 2; Sp. p. 936; Gaz. vol. 139; p. 164.
- Ohmer, J. F., Dayton, Ohio, assignor to Ohmer Fare Register Company, Rochester, N. Y. Fare-register. No. 911,518; Feb. 2; Sp. p. 937; Gaz. vol. 139; p. 164.
- Ohmer, J. F., Dayton, Ohio, assignor to Ohmer Fare Register Company, Rochester, N. Y. Means for electrically operating the operating mechanism of a fare-register. No. 911,519; Feb. 2; Sp. p. 942; Gaz. vol. 139; p. 164.
- Ohmer, J. F., Dayton, Ohio, assignor to Ohmer Fare Register Company, Rochester, N. Y. Fare-register. No. 914,361; Mar. 2; Sp. p. 1513; Gaz. vol. 140; p. 233.
- Ohmer, J. F., Dayton, Ohio, assignor to Ohmer Fare Register Company, Rochester, N. Y. Fare-register. No. 937,220; Oct. 19; Sp. p. 3372; Gaz. vol. 147; p. 585.
- Ohmer, J. F., and E. H. Bridenbaugh, Dayton, Ohio, assignors to Ohmer Fare Register Company, Rochester, N. Y. Fare register and recorder. No. 911,520; Feb. 2; Sp. p. 946; Gaz. vol. 139; p. 165.
- Ohmer, W. I., assignor to Recording and Computing Machines Company, Dayton, Ohio. Fare register and recorder. No. 921,276; May 11; Sp. p. 2407; Gaz. vol. 142; p. 422.
- Ohmer, W. I., assignor to Recording and Computing Machines Company, Dayton, Ohio. Fare register and recorder. No. 923,692; June 1; Sp. p. 1275; Gaz. vol. 143; p. 193.
- Ohnstrand, E., assignor to Jamestown Metal Furniture Company, Jamestown, N. Y. Sheet-metal handle. No. 936,802; Oct. 12; Sp. p. 2513; Gaz. vol. 147; p. 419.
- Ohnstrand, E., assignor to Art Metal Construction Company, Jamestown, N. Y. Drawer for filing-cases. No. 943,841; Dec. 21; Sp. p. 3387; Gaz. vol. 149; p. 676.
- Ohrmundt, F., and J. Kramer, Embarrass, Wis. Cover. No. 944,376; Dec. 28; Sp. p. 5025; Gaz. vol. 149; p. 884.
- Oil and Waste Saving Machine Company. (See Patterson, T. S., assignor.)
- Oil and Waste Saving Machine Company. (See Pittock, J. W., assignor.)
- Oil Well Supply Company. (See Heggen, A. G., assignor.)
- Oil Well Supply Company. (See Ritter, F. W., assignor.)
- Oil Well Supply Company. (See Sands, L. C., assignor.)
- Oil Well Supply Company. (See Walker, H. B., assignor.)
- Oltum, T. N., Lisbon, N. D. Milk-pail holder. No. 922,621; May 25; Sp. p. 5202; Gaz. vol. 142; p. 920.
- Okazaki, K., Tokyo, Japan. Manufacturing soy or sauce substitute. No. 923,070; May 25; Sp. p. 6139; Gaz. vol. 142; p. 1065.
- Okerfelt, G. (See Pfennighausen and Okerfelt.)
- Okressa, R. F. E., Antigua, Guatemala. Wind-motor. No. 944,148; Dec. 21; Sp. p. 4546; Gaz. vol. 149; p. 780.
- Olander, A. C., Minot, N. D., and W. W. Olander, Waterville, Iowa. Fastening device. No. 944,461; Dec. 28; Sp. p. 5221; Gaz. vol. 149; p. 914.
- Olander, C. H., Chicago, Ill. Overgaiter. No. 909,929; Jan. 19; Sp. p. 3027; Gaz. vol. 138; p. 561.
- Olander, F. (See Blomberg, E. C., assignor.)
- Olander, W. W. (See Olander, A. C. and W. W.)
- Olbon, J. A., assignor of one-half to L. F. Braun, Paterson, N. J. Mail-pouch catching and delivering apparatus. No. 939,738; Nov. 9; Sp. p. 2851; Gaz. vol. 148; p. 470.
- Old Dominion Specialty Manufacturing Company. (See Brauchli, J., assignor.)
- Olden, C. E., Mason City, Iowa. Clay-gathering machine. No. 939,855; Nov. 9; Sp. p. 3087; Gaz. vol. 148; p. 510.
- Olden, W. Q., Chicago, assignor of one-half to R. B. Campbell, Joliet, Ill. Dump-car. No. 929,104; July 27; Sp. p. 4967; Gaz. vol. 144; p. 884.
- Oldenbusch, E., New York, N. Y. Combined match-box and cigar-cutter. No. 937,688; Oct. 19; Sp. p. 4337; Gaz. vol. 147; p. 739.
- Oldenbusch, E., New York, N. Y. Easel. No. 940,472; Nov. 16; Sp. p. 4504; Gaz. vol. 148; p. 753.
- Oldenbusch, E., New York, N. Y. Picture-frame. No. 943,367; Dec. 14; Sp. p. 2871; Gaz. vol. 149; p. 483.
- Oldham, A. V., Louisville, Ky. Jar or can closure. No. 932,892; Aug. 31; Sp. p. 6891; Gaz. vol. 145; p. 1183.
- Oldham, G. F., and G. E. Kirk; said Oldham assignor to said Kirk. Disappearing stand. No. 911,821; Feb. 9; Sp. p. 1562; Gaz. vol. 139; p. 291.
- Oldham, S., Philadelphia, Pa. Throttle-valve mechanism. No. 920,631; May 4; Sp. p. 1090; Gaz. vol. 142; p. 177.
- Oldman, E., assignor to Farrar & Trefts, Buffalo, N. Y. Manhole cover-plate. No. 941,531; Nov. 30; Sp. p. 6800; Gaz. vol. 148; p. 1152.
- Olds, F. P., Berea, Ohio. Truck. No. 917,648; Apr. 6; Sp. p. 1336; Gaz. vol. 141; p. 235.
- Olds Motor Works. (See Dunham, G. W., assignor.)
- Olds, T. J., Tacoma, Wash. Paper-hanger's tool. No. 937,383; Oct. 19; Sp. p. 3725; Gaz. vol. 147; p. 638.
- Oldtmann, H., Elberfeld, Germany. Coupling for the flushing-pipes of water-closets. No. 919,935; Apr. 27; Sp. p. 6366; Gaz. vol. 141; p. 1088.
- Olejnik, F., Rankin, Pa. Machine for manufacturing metallic receptacles. No. 933,575; Sept. 7; Sp. p. 1251; Gaz. vol. 146; p. 185.
- Oleson, F. L., Chicago, Ill. Illusion toy. No. 927,748; July 13; Sp. p. 2167; Gaz. vol. 144; p. 376.
- Olier, A., assignor to Société A. Olier & Cie., Clermont-Ferrand, France. Machine for beveling air-tubes for pneumatic tires. No. 918,360; Apr. 13; Sp. p. 2832; Gaz. vol. 141; p. 501.
- Olligny, J. D., assignor to Peat Gas and Coal Company, Montreal, Quebec, Canada. Peat-gas plant. No. 938,691; Nov. 2; Sp. p. 541; Gaz. vol. 148; p. 83.
- Olin, F. C., Buffalo, N. Y. Crank and yoke connection. No. 908,605; Jan. 5; Sp. p. 367; Gaz. vol. 138; p. 59.
- Olinger, J. B., Milwaukee, Wis. Geographical clock. No. 935,806; Oct. 5; Sp. p. 448; Gaz. vol. 147; p. 63.
- Olinger, N., Mount Pleasant, Pa. Puzzle postal-card. No. 939,074; Nov. 2; Sp. p. 1329; Gaz. vol. 148; p. 216.



*Alphabetical list of patentees—Continued.*

- Oliphant, J. D., Trenton, N. J. Self-oiling device for pulleys or wheels. No. 928,688; July 20; Sp. p. 4134; Gaz. vol. 144; p. 720.  
 Oliphant, W. A., Petersburg, Ind. Fence-post. No. 914,867; Mar. 9; Sp. p. 2552; Gaz. vol. 140; p. 426.  
 Oliva, J. C., Marengo, Iowa. Starting device for mowers. No. 943,044; Dec. 14; Sp. p. 2205; Gaz. vol. 149; p. 375.  
 Olive, W. A., Indianapolis, Iowa. Copy-holder. No. 912,405; Feb. 16; Sp. p. 2858; Gaz. vol. 139; p. 518.  
 Oliver, A., El Reno, Okla. Steam-cabinet cooker. No. 918,898; Apr. 20; Sp. p. 4042; Gaz. vol. 141; p. 709.  
 Oliver, B., Scottsburg, Ind. Signal for rural-delivery boxes. No. 918,899; Apr. 20; Sp. p. 4045; Gaz. vol. 141; p. 710.  
 Oliver, C., Woolwich, England. Electric-arc lamp. No. 914,868; Mar. 9; Sp. p. 2553; Gaz. vol. 140; p. 426.  
 Oliver, C., Woolwich, England. Electric-arc lamp. No. 914,869; Mar. 9; Sp. p. 2559; Gaz. vol. 140; p. 427.  
 Oliver Chilled Plow Works. (See Paul, W. L., assignor.)  
 Oliver Chilled Plow Works. (See Paul and Altgelt, assignors.)  
 Oliver Chilled Plow Works. (See Rich, L. L., assignor.)  
 Oliver, E. A., Richland, Mo. Automobile fifth-wheel. No. 928,790; July 20; Sp. p. 4325; Gaz. vol. 144; p. 753.  
 Oliver, E. C., Minneapolis, Minn. Flexible shaft. No. 910,014; Jan. 19; Sp. p. 3189; Gaz. vol. 138; p. 589.  
 Oliver, E. L., Grass Valley, Cal. Continuous vacuum-filter. No. 919,628; Apr. 27; Sp. p. 5730; Gaz. vol. 141; p. 986.  
 Oliver, E. S., Newark, N. J. Sound-modifying means for talking-machines. No. 932,055; Aug. 24; Sp. p. 5179; Gaz. vol. 145; p. 884.  
 Oliver, F. M., and C. B. Westcott, Savannah, Ga. Decoy. No. 934,342; Sept. 14; Sp. p. 2774; Gaz. vol. 146; p. 461.  
 Oliver, G. F., and R. Rousseau, Ilion, N. Y.; said Oliver assignor to said Rousseau. Foot-rest for shoe-shining stands. No. 929,475; July 27; Sp. p. 5743; Gaz. vol. 144; p. 1008.  
 Oliver, J., Westbourne, Manitoba, Canada. Shoe-guard. No. 911,673; Feb. 9; Sp. p. 1298; Gaz. vol. 139; p. 242.  
 Oliver, J., Westbourne, Manitoba, Canada. Bag-case. No. 920,632; May 4; Sp. p. 1092; Gaz. vol. 142; p. 177.  
 Oliver, J. F., Council Bluffs, Iowa. Detachable cellar-spray. No. 909,654; Jan. 12; Sp. p. 2462; Gaz. vol. 138; p. 437.  
 Oliver, J. G., assignor to Bardons and Oliver, Cleveland, Ohio. Lathe-chuck. No. 926,761; July 6; Sp. p. 111; Gaz. vol. 144; p. 18.  
 Oliver Machinery Company. (See Mentzer, W. Y., assignor.)  
 Oliver, O. O., executrix. (See Oliver, T.)  
 Oliver, T., Chicago, Ill. Vending-machine. No. 918,584; Apr. 20; Sp. p. 3309; Gaz. vol. 141; p. 602.  
 Oliver, T., assignor to Oliver Typewriter Company, Chicago, Ill. Type-writing machine. No. 922,027; May 18; Sp. p. 3991; Gaz. vol. 142; p. 698.  
 Oliver, T., deceased, (O. O. Oliver, executrix,) assignor of one-fourth to J. W. Crouch, Chicago, Ill. Trolley-pole for electric-railway cars. No. 928,879; July 20; Sp. p. 4503; Gaz. vol. 144; p. 784.  
 Oliver Typewriter Company. (See Knapp and Harting, assignors.)  
 Oliver Typewriter Company. (See Oliver, T., assignor.)  
 Oliver Typewriter Company. (See Poole, C. C., assignor.)  
 Oliver Typewriter Company. (See Roderick, C., assignor.)  
 Oliver Typewriter Company. (See Young, H. B., assignor.)  
 Oliver, W. H., Chicago, Ill. Lifting-jack. No. 917,789; Apr. 13; Sp. p. 1662; Gaz. vol. 141; p. 308.  
 Ollerenshaw, R. E. (See Windle and Ollerenshaw.)  
 Olsson, H. S., Mars, Pa. Turnbuckle for trolley-wires. No. 913,547; Feb. 23; Sp. p. 5200; Gaz. vol. 139; p. 926.  
 Olmstead, A. P., Watervliet, assignor to Watervliet Novelty Co., Troy, N. Y. Soldering-iron. No. 926,708; June 29; Sp. p. 7494; Gaz. vol. 143; p. 1322.  
 Olmstead-Quabog Corset Company. (See Daley, J. A., assignor.)  
 Olop, S., assignor of one-half to G. M. Brumbaugh, Washington, D. C. Safety-pin. No. 908,693; Jan. 5; Sp. p. 556; Gaz. vol. 138; p. 87.  
 Olsaskie, J., Pana, Ill. Locking whip-socket. No. 909,109; Jan. 5; Sp. p. 1402; Gaz. vol. 138; p. 223.  
 Olsaskie, J., Pana, Ill. Currycomb. No. 909,207; Jan. 12; Sp. p. 1601; Gaz. vol. 138; p. 288.  
 Olsen, A. G., Elkhorn, Wis. Cement-mixer. No. 913,425; Feb. 23; Sp. p. 4946; Gaz. vol. 139; p. 885.  
 Olsen, C. (See Høglund and Olsen.)  
 Olsen, E. (See Hansen, A., assignor.)  
 Olsen, F., Grove City, Minn. Automatic stock-feeding device. No. 911,674; Feb. 9; Sp. p. 1299; Gaz. vol. 139; p. 242.  
 Olsen, I. O., Barron, Wis. Animal-marker. No. 913,042; Feb. 23; Sp. p. 4177; Gaz. vol. 139; p. 756.  
 Olsen, J. (See Glaser and Olsen.)  
 Olsen, J. B., and J. C. Petersen, Racine, Wis. Horseshoe with removable calk. No. 934,624; Sept. 21; Sp. p. 3333; Gaz. vol. 146; p. 580.  
 Olsen, L. (See Malmberg, A. G., assignor.)  
 Olsen, N. J., et al. (See Anderson, A., assignor.)  
 Olsen, R., San Francisco, Cal. Anchor. No. 934,829; Sept. 21; Sp. p. 3728; Gaz. vol. 146; p. 648.  
 Olsen, T. Y., Philadelphia, Pa. Testing-machine. No. 925,131; June 15; Sp. p. 4338; Gaz. vol. 143; p. 740.  
 Olsen, V., and F. Schroder, Bridgeport, Conn. Air-compressor. No. 941,646; Nov. 30; Sp. p. 7024; Gaz. vol. 148; p. 1188.  
 Olsen, W. A., New York, N. Y. Nailing-machine. No. 916,768; Mar. 30; Sp. p. 6283; Gaz. vol. 140; p. 1124.  
 Olshan, M. (See Brown, M., assignor.)  
 Olson, A. G., Council Bluffs, Iowa, assignor of one-half to J. P. Ervin, Omaha, Nebr. Alining means for car-wheels. No. 935,924; Oct. 5; Sp. p. 695; Gaz. vol. 147; p. 102.  
 Olson, A. J., Kloten, N. D. Wagon-brake. No. 916,769; Mar. 30; Sp. p. 6285; Gaz. vol. 140; p. 1124.  
 Olson, A. M., and P. Libak, Madelia, Minn. Barrel-head. No. 910,015; Jan. 19; Sp. p. 3190; Gaz. vol. 138; p. 589.  
 Olson, C. (See Jacobson and Olson.)  
 Olson, C. A., and G. W. Hayden, assignors to Crane Company, Chicago, Ill. Interchangeable sectional die-block. No. 919,936; Apr. 27; Sp. p. 6367; Gaz. vol. 141; p. 1088.  
 Olson, C. E., Everett, Wash. Combined brush-hook and ax. No. 934,008; Sept. 14; Sp. p. 2115; Gaz. vol. 146; p. 349.  
 Olson, C. W., assignor of one-half to H. N. Somerville, Condon, Ore. Harrow. No. 944,890; Dec. 28; Sp. p. 5736; Gaz. vol. 149; p. 993.  
 Olson, G. A., Ramey, Minn. Harrow. No. 942,511; Dec. 7; Sp. p. 1016; Gaz. vol. 149; p. 164.  
 Olson, G. O., assignor to Fort Dearborn Manufacturing Company, Chicago, Ill. Loose-leaf binder. No. 942,098; Dec. 7; Sp. p. 132; Gaz. vol. 149; p. 21.  
 Olson, G. P. (See Olson, O. R., assignor.)  
 Olson, H. O., Two Harbors, Minn. Railway-tie and rail-fastener. No. 928,791; July 20; Sp. p. 4326; Gaz. vol. 144; p. 754.  
 Olson, J. P., Sioux City, Iowa. Automatic rain-spout valve. No. 933,918; Sept. 14; Sp. p. 1954; Gaz. vol. 146; p. 321.  
 Olson, J. P., Sioux City, Iowa. Adjustable shade-support. No. 944,632; Dec. 28; Sp. p. 5612; Gaz. vol. 149; p. 974.  
 Olson, L. J., Alexandria, Minn. Acetylene-gas-apparatus. No. 932,997; Aug. 31; Sp. p. 7079; Gaz. vol. 145; p. 1215.  
 Olson, M. (See Bradford and Olson.)  
 Olson, M. (See Nilson and Olson.)  
 Olson, M. G., Randall, Iowa. Butter-packer. No. 930,787; Aug. 10; Sp. p. 2390; Gaz. vol. 145; p. 413.  
 Olson, N., Birmingham, Ala. Device for cleaning ash-pans of locomotives. No. 942,737; Dec. 7; Sp. p. 1462; Gaz. vol. 149; p. 239.  
 Olson, O., Prophetstown, Ill. Automatic flood-gate. No. 910,717; Jan. 26; Sp. p. 4674; Gaz. vol. 138; p. 850.  
 Olson, O. F., Quincy, Mass. Calipers. No. 936,024; Oct. 5; Sp. p. 898; Gaz. vol. 147; p. 135.  
 Olson, O. H., Mount Vernon, S. D. Harrow. No. 929,105; July 27; Sp. p. 4972; Gaz. vol. 144; p. 885.  
 Olson, O. J., assignor of one-half to H. C. Romfo, Fero, N. D. Hay rake and loader. No. 939,157; Nov. 2; Sp. p. 1514; Gaz. vol. 148; p. 246.  
 Olson, O. L., Little Falls, Minn. Mowing-machine for railroad use. No. 914,870; Mar. 9; Sp. p. 2561; Gaz. vol. 140; p. 427.  
 Olson, O. R., assignor of one-half to G. P. Olson, Kansas City, Mo. Clothes-line prop and tightener. No. 913,548; Feb. 23; Sp. p. 5201; Gaz. vol. 139; p. 926.  
 Olson, R. M., Iron River, Mich. Swinging gate. No. 916,363; Mar. 23; Sp. p. 5472; Gaz. vol. 140; p. 971.  
 Olson, W. (See Lundvall and Olson.)  
 Olsson, E., Bofors, Sweden. Gun with recoiling barrel. No. 935,222; Sept. 28; Sp. p. 4518; Gaz. vol. 146; p. 804.  
 Olsson, H. A., Brooklyn, N. Y. Wire-stitcher. No. 914,668; Mar. 9; Sp. p. 2137; Gaz. vol. 140; p. 360.  
 Olsson, H. A., assignor to Multi-Seal Manufacturing Company, Brooklyn, N. Y. Bottle-closure. No. 919,937; Apr. 27; Sp. p. 6368; Gaz. vol. 141; p. 1089.  
 Olsson, J., Milwaukee, Wis. Gage-cock. No. 912,604; Feb. 16; Sp. p. 3268; Gaz. vol. 139; p. 586.  
 Olsson, J. A., Boston, Mass. Combined trough and glass support for glazed structures. No. 931,638; Aug. 17; Sp. p. 4208; Gaz. vol. 145; p. 722.  
 Olsson, O., Milwaukee, Wis. Belt-sander. No. 938,692; Nov. 2; Sp. p. 542; Gaz. vol. 148; p. 84.  
 Olsson, O. W., Arlöf, Sweden. Sanding device. No. 933,198; Sept. 7; Sp. p. 364; Gaz. vol. 146; p. 57.  
 Olston, A. B. (See Olston, O. and A. B.)  
 Olston, O. and A. B., Portland, Ore. Cooking apparatus. No. 924,185; June 8; Sp. p. 2378; Gaz. vol. 143; p. 390.  
 Olund, E., Lidköping, Sweden. Purse. No. 933,261; Sept. 7; Sp. p. 529; Gaz. vol. 146; p. 81.  
 Olus Manufacturing Company. (See Quigley, E. J., assignor.)  
 Omaha Packing Company. (See Wundrach, J., assignor.)

*Alphabetical list of patentees—Continued.*

- Omberg, J. A., Jr., Memphis, Tenn. Pavement and constructing the same. No. 910,568; Jan. 26; Sp. p. 4385; Gaz. vol. 138; p. 804.
- Omodt, O. H., Houston, Minn. Planter-support. No. 930,880; Aug. 10; Sp. p. 2605; Gaz. vol. 145; p. 445.
- Onderdonk, L., New York, N. Y., assignor to Union Special Sewing Machine Co., Chicago, Ill. Overseaming-machine and looper mechanism therefor. No. 920,170; May 4; Sp. p. 149; Gaz. vol. 142; p. 23.
- Onderdonk, L., New York, N. Y., assignor to Union Special Sewing Machine Co., Chicago, Ill. Sewing-machine looper-movement. No. 926,891; July 6; Sp. p. 387; Gaz. vol. 144; p. 62.
- Onderdonk, L., New York, N. Y., assignor to Union Special Sewing Machine Company, Chicago, Ill. Overseaming sewing-machine. No. 929,698; Aug. 3; Sp. p. 119; Gaz. vol. 145; p. 22.
- Onderdonk, L., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Power-transmission belt. No. 923,693; June 1; Sp. p. 1278; Gaz. vol. 143; p. 199.
- Ondrizek, E. J. (See Becker and Ondrizek.)
- Oneida Community. (See Wright, O. D., assignor.)
- Oney, T. J., Lawrenceville, Ill. Samson-post. No. 926,959; July 6; Sp. p. 529; Gaz. vol. 144; p. 86.
- Ong, H. F., Portland, Oreg. Syringe. No. 914,871; Mar. 9; Sp. p. 2664; Gaz. vol. 140; p. 428.
- Onsrud, O., Chicago, Ill. Pressure-regulating device. No. 931,334; Aug. 17; Sp. p. 3629; Gaz. vol. 145; p. 626.
- Ontario Nickel Company. (See Dow and Gates, assignors.)
- Ontario Silver Company. (See Gorton, W. F., assignor.)
- Open Coll Heater and Purifier Company. (See Stickle, C., assignor.)
- Oppenheim, A., New York, N. Y., assignor to Connecticut Web and Buckle Company, Bridgeport, Conn. Suspenders. No. 911,903; Feb. 9; Sp. p. 1710; Gaz. vol. 139; p. 317.
- Oppenheim, J., Vienna, Austria-Hungary. Adjustable hames-fastener. No. 940,269; Nov. 16; Sp. p. 4021; Gaz. vol. 148; p. 685.
- Oppenheimer, Franc and Langsdorf. (See Bachrach, E. S., assignor.)
- Oppenheimer, G. A., New Rochelle, N. Y., assignor to L. H. Hays, Cleveland, Ohio. Automatic needle-disengaging and stop mechanism for sound-reproducing machines. No. 936,348; Oct. 12; Sp. p. 1546; Gaz. vol. 147; p. 265.
- Oppenheimer, I. L. (See Weese, O. R., assignor.)
- Oppenheimer, J., Omaha, Nebr. Metal shelf-bracket. No. 920,633; May 4; Sp. p. 1093; Gaz. vol. 142; p. 177.
- Opperman, F., Greenwich, Conn. Flushing apparatus. No. 938,018; Oct. 26; Sp. p. 5049; Gaz. vol. 147; p. 868.
- Oppermann, A., Rhoden, near Osterwieck, Germany. Machine for weighing grain. No. 916,582; Mar. 30; Sp. p. 5958; Gaz. vol. 140; p. 1069.
- Oppermann, E. L., London, England. Container for secondary batteries. No. 932,637; Aug. 31; Sp. p. 6378; Gaz. vol. 145; p. 1100.
- Oppermann, F. M., Namur, Belgium. Apparatus for the manufacture of sheet-glass. No. 915,879; Mar. 23; Sp. p. 4577; Gaz. vol. 140; p. 812.
- Opsal, A., Portland, Oreg. Swivel. No. 917,349; Apr. 6; Sp. p. 804; Gaz. vol. 141; p. 137.
- Opsal, A., Portland, Oreg. Choker-line for log-hauling cables. No. 917,738; Apr. 6; Sp. p. 1510; Gaz. vol. 141; p. 264.
- Opsal, S., assignor to F. Wattne, Stavanger, Norway. Machine for forming tins. No. 913,841; Mar. 2; Sp. p. 340; Gaz. vol. 140; p. 58.
- Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Brauburger, E., assignor.)
- Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Dubenhorst, F., assignor.)
- Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Jacob, H., assignor.)
- Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Kaemmerer, F., assignor.)
- Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Schmuck, J., assignor.)
- Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Zschokke, W., assignor.)
- Oraker, O. P., U. S. Navy. Air-compressor. No. 912,882; Feb. 16; Sp. p. 3846; Gaz. vol. 139; p. 678.
- Oram, J. S., Cleveland, Ohio. Barrel-leveling machine. No. 915,106; Mar. 16; Sp. p. 3006; Gaz. vol. 140; p. 530.
- Oram, J. S., Cleveland, Ohio. Windlass. No. 933,781; Sept. 14; Sp. p. 1670; Gaz. vol. 146; p. 276.
- Orance, P., Newark, N. J. Burglar-alarm screen. No. 943,368; Dec. 14; Sp. p. 2872; Gaz. vol. 149; p. 483.
- Orbison, R. A. (See Daubenspeck, R. P., assignor.)
- Orchard, A. S., assignor to Keystone Type Foundry, Philadelphia, Pa. Printer's galley. No. 939,620; Nov. 9; Sp. p. 2598; Gaz. vol. 148; p. 428.
- Orcutt, C. D., North Tonawanda, assignor, by mesne assignments, to Buffalo Sled Company, New York, N. Y. Hand-propelled car. No. 915,880; Mar. 23; Sp. p. 4580; Gaz. vol. 140; p. 813.
- Orcutt, D. M., Council Bluffs, Iowa. Collapsible bucket. No. 938,431; Oct. 26; Sp. p. 5954; Gaz. vol. 147; p. 1010.
- Ord, W., Brooklyn, Ohio. Balanced valve. No. 919,753; Apr. 27; Sp. p. 5977; Gaz. vol. 141; p. 1027.
- Ordóñez, S., and L. Katz, San Francisco, Cal. Device to turn railway-switches. No. 938,889; Nov. 2; Sp. p. 952; Gaz. vol. 148; p. 151.
- Ordway, A. H., Framingham, Mass. Cushion. No. 926,821; July 6; Sp. p. 242; Gaz. vol. 144; p. 38.
- Ordway, C., New York, N. Y. Evaporating apparatus. No. 942,407; Dec. 7; Sp. p. 783; Gaz. vol. 149; p. 127.
- Orear, J. D., Mexico, Mo. Combined shoulder and body brace. No. 911,324; Feb. 2; Sp. p. 599; Gaz. vol. 139; p. 102.
- Orendorff, B. J. (See Whitney, W. H., assignor.)
- Orendorff, D. L. (See McCall and Orendorff.)
- Orewiler, B. F., Chicago, Ill. Garment-supporter clasp. No. 916,188; Mar. 23; Sp. p. 5156; Gaz. vol. 140; p. 912.
- Orfe, J. P., Riverside, N. J. Boot-cleaner. No. 909,930; Jan. 19; Sp. p. 3029; Gaz. vol. 138; p. 561.
- Orford, H., assignor of one-half to S. J. Taylor, Philadelphia, Pa. Manufacture of lenses for spectacles or eyeglasses. No. 943,449; Dec. 14; Sp. p. 3046; Gaz. vol. 149; p. 512.
- Organ Power Company. (See Spencer, I. H., assignor.)
- Orkin, J. I., Boston, Mass. Gas-stove. No. 937,951; Oct. 26; Sp. p. 4900; Gaz. vol. 147; p. 847.
- Orkin, J. I., and J. Isaacs, Boston, Mass. Apparatus for cleaning oil-waste. No. 936,657; Oct. 12; Sp. p. 2235; Gaz. vol. 147; p. 370.
- Orlay, J., Temeche, Belgium. Device for controlling the course of ships in foggy weather. No. 926,822; July 6; Sp. p. 244; Gaz. vol. 144; p. 39.
- Orme, H. A., Wesley Heights, D. C. Aerodrome. No. 926,593; June 29; Sp. p. 7274; Gaz. vol. 143; p. 1284.
- Ormod, J. D. (See Higgins and Ormod.)
- Ormsby, J. H., Bolton Landing, N. Y. Shade-hanger. No. 930,789; Aug. 10; Sp. p. 2394; Gaz. vol. 145; p. 414.
- Ormsby, R. S., West Somerville, Mass. Bedclothes-clamp. No. 925,831; June 22; Sp. p. 5762; Gaz. vol. 143; p. 997.
- Orndoff, O. F., Harveys, Pa. Rake-tooth point. No. 910,306; Jan. 19; Sp. p. 3832; Gaz. vol. 138; p. 690.
- Orndoff, O. F., Harveys, Pa. Furrow-opening attachment. No. 914,450; Mar. 9; Sp. p. 1684; Gaz. vol. 140; p. 288.
- Orndorff, W. K., Ithaca, N. Y., assignor to Parke, Davis & Company, Detroit, Mich. Phenol halogen phthalein compound. No. 939,075; Nov. 2; Sp. p. 1331; Gaz. vol. 148; p. 216.
- Ornstein, L., Brooklyn, N. Y. Paint and varnish remover. No. 931,335; Aug. 17; Sp. p. 3632; Gaz. vol. 145; p. 626.
- Orr, A. S. and L. D., assignors to E. N. Ford and M. E. Orr, Hillview, Ill. Scythe. No. 912,157; Feb. 9; Sp. p. 2301; Gaz. vol. 139; p. 399.
- Orr, D. W. (See Coleman, S. H., assignor.)
- Orr, F. L., Omaha, Nebr. Air-ship. No. 912,158; Feb. 9; Sp. p. 2301; Gaz. vol. 139; p. 399.
- Orr, H. L., Georgetown, Wash. Ore separator and concentrator. No. 937,325; Oct. 19; Sp. p. 3582; Gaz. vol. 147; p. 619.
- Orr, J. S., Augusta, Ky. Chain propeller. No. 936,349; Oct. 12; Sp. p. 1550; Gaz. vol. 147; p. 265.
- Orr, J. W., Philadelphia, Pa. Mailing-machine. No. 931,639; Aug. 17; Sp. p. 4210; Gaz. vol. 145; p. 722.
- Orr, L. D. (See Orr, A. S. and L. D.)
- Orr, L. H., New York, N. Y. Embossing appliance. No. 941,532; Nov. 30; Sp. p. 6801; Gaz. vol. 148; p. 1152.
- Orr, M. E., *et al.* (See Orr, A. S. and L. D., assignors.)
- Orr, R. G. (See Raw and Sumner, assignors.)
- Orr, W., assignor to New Jersey Wire Cloth Company, Trenton, N. J. Fireproof partition. No. 913,152; Feb. 23; Sp. p. 4387; Gaz. vol. 139; p. 793.
- Orth, W. (See Green and Orth.)
- Orthmann, F. (See Puttkammer, Orthmann, and Schindler.)
- Orthmann, J. H. W., and C. W. C. Herbst, Hamburg, Germany. Device for raising and conveying beer from storage vessels by the direct influence of air-pressure of variable strength. No. 925,219; June 15; Sp. p. 4517; Gaz. vol. 143; p. 770.
- Orton, E. D., Elmwood, Ill. Harrow. No. 937,848; Oct. 26; Sp. p. 4694; Gaz. vol. 147; p. 812.
- Orton, P. A., Chicago, Ill. Slog-hoist. No. 930,685; Aug. 10; Sp. p. 2174; Gaz. vol. 145; p. 380.
- Ortwein, G. A., Maple Falls, Wash. Automatic shingle-stamp and packer's recorder. No. 942,512; Dec. 7; Sp. p. 1017; Gaz. vol. 149; p. 164.
- Orum, S. R. M. (See Heimbecker and Orum.)
- Orvis Economy Furnace Co. (See Orvis, O. D., assignor.)
- Orvis, O. D., Jersey City, N. J. Locomotive-boiler. No. 928,880; July 20; Sp. p. 4507; Gaz. vol. 144; p. 785.
- Orvis, O. D., assignor to Orvis Economy Furnace Co., New York, N. Y. Steam-boiler furnace. No. 927,672; July 13; Sp. p. 2023; Gaz. vol. 144; p. 352.
- Orvis, O. D., Bayonne, N. J., assignor, by mesne assignments, to United States Coal Saver & Smoke Consumer Company, Augusta, Me. Updraft-furnace. No. 929,624; July 27; Sp. p. 6033; Gaz. vol. 144; p. 1056.
- Ory, A., *et al.* (See Melisch, J., assignor.)



*Alphabetical list of patentees—Continued.*

- Orzali, M., Lucca, Italy. Collapsible package-box. No. 928,689; July 20; Sp. p. 4135; Gaz. vol. 144; p. 720.
- Osborn, A. A., Kansas City, Mo. Oil-gas generator. No. 916,003; Mar. 23; Sp. p. 4820; Gaz. vol. 140; p. 852.
- Osborn, C. H., Hastings, Mich. Combination body-garment. No. 930,081; Aug. 3; Sp. p. 961; Gaz. vol. 145; p. 156.
- Osborn, C. H., Hastings, Mich. Combination body-garment. No. 932,568; Aug. 31; Sp. p. 6217; Gaz. vol. 145; p. 1077.
- Osborn, F. C., Detroit, Mich., assignor, by mesne assignments, to National Cash Register Company, Dayton, Ohio. Cash-register. No. 926,072; June 22; Sp. p. 6248; Gaz. vol. 143; p. 1076.
- Osborn, G., *et al.* (See Chaussé, W., assignor.)
- Osborn, G. T., executor. (See Harper, T. J.)
- Osborn, L. L., *et al.* (See Vanderslice, T. J., assignor.)
- Osborn Manufacturing Company. (See Atwater, H. R., assignor.)
- Osborn Manufacturing Company. (See Nielson, H., assignor.)
- Osborn, N. (See Garven and Osborn.)
- Osborn, W. H., Louisville, Ky. Water-closet flushing apparatus. No. 914,067; Mar. 2; Sp. p. 885; Gaz. vol. 140; p. 138.
- Osborn, W. H., Southern Heights, Ky. Automatic flushing apparatus for water-closets. No. 914,068; Mar. 2; Sp. p. 887; Gaz. vol. 140; p. 138.
- Osborne Company. (See Avery, H. T., assignor.)
- Osborne, D. M., *et al.* (See Sharp, H. J., assignor.)
- Osborne, D. P. (See Bryson, D. K., assignor.)
- Osborne, E. F., assignor to Osborne Steam Engineering Company, Chicago, Ill. Expansion-joint for pipe-lines. No. 944,273; Dec. 28; Sp. p. 4792; Gaz. vol. 149; p. 847.
- Osborne, H. Z., Jr., Los Angeles, Cal. Cross-section templet. No. 944,462; Dec. 28; Sp. p. 5222; Gaz. vol. 149; p. 914.
- Osborne, J., Spokane, Wash. Adjustable window-shade hanger. No. 919,630; Apr. 27; Sp. p. 5736; Gaz. vol. 141; p. 987.
- Osborne, J. C., Erie, Pa. Furnace. No. 938,693; Nov. 2; Sp. p. 544; Gaz. vol. 148; p. 84.
- Osborne Steam Engineering Company. (See Osborne, E. F., assignor.)
- Osborne, V. (See Connolly and Osborne.)
- Osborne, W., and H. Schupp, assignors to L. Sensburg, Munich, Germany. Converting catechin into a catechu-tannic acid. No. 913,426; Feb. 23; Sp. p. 4947; Gaz. vol. 139; p. 885.
- Osborne, W. S., Hyde Park, Mass. Apparatus for desiccating fluid substances. No. 913,760; Mar. 2; Sp. p. 178; Gaz. vol. 140; p. 29.
- Osbourne, M. P. (See Serrell and Osbourne.)
- Osbourne, M. P., Merchantville, N. J., assignor to Warren Webster & Company. Steam-heating apparatus. No. 911,751; Feb. 9; Sp. p. 1436; Gaz. vol. 139; p. 268.
- Osbourne, M. P., Merchantville, N. J., assignor to Warren Webster & Company. Valve for heating apparatus. No. 934,932; Sept. 21; Sp. p. 3936; Gaz. vol. 146; p. 683.
- Osburn, C. E., and O. R. Kuntz, Kankakee, Ill. Display rack or stand. No. 929,625; July 27; Sp. p. 6034; Gaz. vol. 144; p. 1056.
- Oscar Ayres & Co. (See Ayres, O. O., assignor.)
- Osgood, E. A., Garfield, assignor of one-half to J. A. Kauffman, Tooele, Utah. Belt-governing mechanism. No. 921,621; May 11; Sp. p. 3141; Gaz. vol. 142; p. 537.
- Osgood, E. C., Newark, N. J. Single-trigger mechanism. No. 934,009; Sept. 14; Sp. p. 2116; Gaz. vol. 146; p. 350.
- Osgood, J. L. (See Manzel, C. W., assignor.)
- Osgund, C. H., Worcester, Mass. Multiple drill. No. 920,080; Apr. 27; Sp. p. 6677; Gaz. vol. 141; p. 1135.
- Osman, R. C., assignor to Globe Ticket Company, Philadelphia, Pa. Transfer-ticket. No. 940,048; Nov. 16; Sp. p. 3545; Gaz. vol. 148; p. 606.
- Osmer, J. E., Chicago, Ill. Drive-wheel. No. 944,495; Dec. 28; Sp. p. 5306; Gaz. vol. 149; p. 925.
- Osmer, J. E., Chicago, Ill. Drive-wheel. No. 944,496; Dec. 28; Sp. p. 5307; Gaz. vol. 149; p. 926.
- Osmer, J. E., assignor to Elevator Supply & Repair Company, Chicago, Ill. Fluid-pressure motor. No. 937,384; Oct. 19; Sp. p. 3726; Gaz. vol. 147; p. 638.
- Osmanson, O. A., Crookston, Minn. Combined bevel and square. No. 912,605; Feb. 16; Sp. p. 3270; Gaz. vol. 139; p. 587.
- Osnos, M. M., assignor to Felten & Guillaume-Lahmeyerwerke Actien Gesellschaft, Frankfurt-on-the-Main, Germany. System for controlling the strength of direct currents in electrical circuits. No. 914,177; Mar. 2; Sp. p. 1125; Gaz. vol. 140; p. 176.
- Osnos, M. M., assignor to Felten & Guillaume-Lahmeyerwerke Actien-Gesellschaft, Frankfurt-on-the-Main, Germany. Process and apparatus for producing direct currents having limited strength. No. 931,336; Aug. 17; Sp. p. 3633; Gaz. vol. 145; p. 627.
- Ossenbeck, A. (See Kahn and Ossenbeck.)
- Ostby, O. (See Strömberg, P. P., assignor.)
- Osten, G., Denver, Colo. Sound-box. No. 913,153; Feb. 23; Sp. p. 4389; Gaz. vol. 139; p. 793.
- Osten, J. H., assignor of one-third to R. G. Osten and one-third to J. Walker, White City, Kans. Road-scraper. No. 929,699; Aug. 3; Sp. p. 123; Gaz. vol. 145; p. 22.
- Osten, R. G., *et al.* (See Osten, J. H., assignor.)
- Oster, H. W., assignor to Oster Manufacturing Company, Cleveland, Ohio. Geared die-stock. No. 925,220; June 15; Sp. p. 4519; Gaz. vol. 143; p. 771.
- Oster Manufacturing Company. (See Oster, H. W., assignor.)
- Oster, O., Wellston, Mo. Hot-water heating apparatus. No. 910,016; Jan. 19; Sp. p. 3191; Gaz. vol. 138; p. 589.
- Oster, O., Wellston, Mo. Hot-water heating apparatus. No. 931,337; Aug. 17; Sp. p. 3637; Gaz. vol. 145; p. 627.
- Ostergren, K. O. (See Larson and Ostergren.)
- Ostergren, O. P., New York, N. Y., assignor, by mesne assignments, to W. M. Power, East Greenwich, R. I. Combustion-engine. No. 920,989; May 11; Sp. p. 1819; Gaz. vol. 142; p. 323.
- Osterholm, W. C., Chicago, Ill. Wire-staple forming and setting machine. No. 943,045; Dec. 14; Sp. p. 2207; Gaz. vol. 149; p. 375.
- Osterlee, C., *et al.* (See Frank, W. V., assignor.)
- Osterman, A. H., Sandusky, Ohio. Music-leaf turner. No. 933,334; Sept. 7; Sp. p. 683; Gaz. vol. 146; p. 106.
- Ostermann, G. C., assignor to Syracuse Steam Gauge Manufacturing Company, Syracuse, N. Y. Steam-pressure gage. No. 918,900; Apr. 20; Sp. p. 4047; Gaz. vol. 141; p. 710.
- Ostermann, H. C., Chicago, Ill. Brake-mast. No. 939,076; Nov. 2; Sp. p. 1332; Gaz. vol. 148; p. 217.
- Ostlin, O. (See Nelson and Ostlin.)
- Ostlin, O., Maywood, and F. Rudolph, Chicago, Ill., assignors to American Can Company, New York, N. Y. Double-seaming machine. No. 920,634; May 4; Sp. p. 1094; Gaz. vol. 142; p. 178.
- Ostrander, A. E., New York, N. Y. Draw-gear or draft-rigging. No. 912,723; Feb. 16; Sp. p. 3548; Gaz. vol. 139; p. 628.
- Ostrander, A. E., New York, N. Y., assignor to American Car and Foundry Company, St. Louis, Mo. Car-end framing. No. 909,208; Jan. 12; Sp. p. 1602; Gaz. vol. 138; p. 288.
- Ostrander, A. E., New York, N. Y., assignor to American Car and Foundry Company, St. Louis, Mo. Two-way dump-car. No. 909,209; Jan. 12; Sp. p. 1604; Gaz. vol. 138; p. 288.
- Ostrander, A. E., assignor to W. H. Woodin, New York, N. Y. Car-underframe. No. 920,384; May 4; Sp. p. 599; Gaz. vol. 142; p. 96.
- Ostrander, J. E., *et al.* (See Hoover, G. W., assignor.)
- Ostrander, J. E., Staatsburg, N. Y. Combination wireless-telegraphy instrument. No. 916,483; Mar. 30; Sp. p. 5741; Gaz. vol. 140; p. 1036.
- Ostrander, J. H., Chicago, Ill. Nose-guard for eyeglasses. No. 913,154; Feb. 23; Sp. p. 4391; Gaz. vol. 139; p. 793.
- Ostrander, J. H., Chicago, Ill. Nose clip or guard for eyeglasses. No. 913,647; Feb. 23; Sp. p. 5450; Gaz. vol. 139; p. 959.
- Ostrander, J. H., Chicago, Ill. Nose-guard for eyeglasses. No. 932,491; Aug. 31; Sp. p. 6059; Gaz. vol. 145; p. 1051.
- Ostrander, W. (See Cumner and Ostrander.)
- Ostrander, W. H., Redickville, Ontario, Canada. Cover for cooking utensils. No. 936,025; Oct. 5; Sp. p. 900; Gaz. vol. 147; p. 136.
- Ostrowski, S. J., Seattle, Wash. Car-fender. No. 915,373; Mar. 16; Sp. p. 3533; Gaz. vol. 140; p. 617.
- Ostwald, W., Leipzig, Germany. Rendering lithopone more stable against light. No. 916,004; Mar. 23; Sp. p. 4822; Gaz. vol. 140; p. 853.
- Oswald, A. E. (See Schramm and Oswald.)
- Oswald, E., Dubuque, Iowa. Box-lid support. No. 923,694; June 1; Sp. p. 1279; Gaz. vol. 143; p. 199.
- Oswald, W. C., Olean, N. Y. Spirit-level attachment. No. 935,807; Oct. 5; Sp. p. 450; Gaz. vol. 147; p. 63.
- Oswald, W. S., Honey Grove, Tex. Mechanical movement. No. 915,306; Mar. 16; Sp. p. 3409; Gaz. vol. 140; p. 595.
- Oszman, E. G., Minneapolis, Minn. Carpet-beater. No. 919,754; Apr. 27; Sp. p. 5979; Gaz. vol. 141; p. 1027.
- Otidys, E. (See Long and Otidys.)
- Otidys, E., Lindsay, Okla. Apparatus for cleaning the hulls of vessels. No. 919,939; Apr. 27; Sp. p. 6370; Gaz. vol. 141; p. 1089.
- Otis Elevator Company. (See Boening, E., assignor.)
- Otis Elevator Company. (See Ihder, J. D., assignor.)
- Otis Elevator Company. (See Lindquist, D. L., assignor.)
- Otis Elevator Company. (See Marshall, E. W., assignor.)
- Otis Elevator Company. (See Sundh, A., assignor.)
- Otis, F. H., Rochester, N. Y. Carbureter. No. 911,153; Feb. 2; Sp. p. 262; Gaz. vol. 139; p. 46.

*Alphabetical list of patentees—Continued.*

- Otis, M. G., Aniwa, Wis. Hose-coupling. No. 927,589; July 13; Sp. p. 1814; Gaz. vol. 144; p. 323.
- Otis, S. (See Seaberg, F., assignor.)
- Otis, S., assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 908,489; Jan. 5; Sp. p. 109; Gaz. vol. 138; p. 21.
- Otis, S., assignor to National Dump Car Company, Chicago, Ill. Railway-car. No. 917,114; Apr. 6; Sp. p. 304; Gaz. vol. 141; p. 56.
- Otis, S., assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 930,790; Aug. 10; Sp. p. 2396; Gaz. vol. 145; p. 415.
- Otis, S., assignor to National Dump Car Company, Chicago, Ill. Door-operating mechanism for railway-cars. No. 935,050; Sept. 28; Sp. p. 4178; Gaz. vol. 146; p. 748.
- Otis, S., assignor to National Dump Car Company, Chicago, Ill. Door-operating mechanism for dump-cars. No. 939,298; Nov. 9; Sp. p. 1878; Gaz. vol. 148; p. 320.
- Otis, S., assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 941,381; Nov. 30; Sp. p. 6474; Gaz. vol. 148; p. 1102.
- Otis, S., Chicago, Ill., assignor, by mesne assignments, to National Dump Car Company. Dump-car. No. 923,695; June 1; Sp. p. 1281; Gaz. vol. 143; p. 199.
- Otis, S., and W. White, assignors to National Boiler Washing Company, Chicago, Ill. System of washing and filling locomotive-boilers. (Reissue.) No. 12,925; Mar. 9; Sp. p. 2876; Gaz. vol. 140; p. 487.
- Ots, E., *et al.* (See Tamassy, Z., assignor.)
- Ottstot, W. E., Mishawaka, Ind. Gas-fixture. No. 927,673; July 13; Sp. p. 2027; Gaz. vol. 144; p. 352.
- Ott, C. W., Pittsburg, assignor to Ott Circle Swing Mfg. Co., Girard, Kans. Merry-go-round. No. 942,041; Nov. 30; Sp. p. 7853; Gaz. vol. 148; p. 1323.
- Ott Circle Swing Mfg. Co. (See Ott, C. W., assignor.)
- Ott, F., South Bethlehem, Pa. Reed-motion. No. 911,675; Feb. 9; Sp. p. 1301; Gaz. vol. 139; p. 242.
- Ott, F. C., Milwaukee, Wis. Piano. No. 928,277; July 20; Sp. p. 3310; Gaz. vol. 144; p. 584.
- Ott, J. F., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 932,314; Aug. 24; Sp. p. 5680; Gaz. vol. 145; p. 969.
- Ott, J. F., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 936,265; Oct. 5; Sp. p. 1366; Gaz. vol. 147; p. 210.
- Ott, J. F., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Feed mechanism for phonographs. No. 936,270; Oct. 5; Sp. p. 1376; Gaz. vol. 147; p. 212.
- Ott, J. F., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 936,271; Oct. 5; Sp. p. 1378; Gaz. vol. 147; p. 213.
- Ott, J. F., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 936,272; Oct. 5; Sp. p. 1380; Gaz. vol. 147; p. 213.
- Ott, J. F., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Feeding mechanism for phonographs. No. 936,273; Oct. 5; Sp. p. 1381; Gaz. vol. 147; p. 213.
- Ott, O. W., Oak Park, Ill. Superheater for locomotives. No. 935,223; Sept. 28; Sp. p. 4518; Gaz. vol. 146; p. 804.
- Ott, O. W., Oak Park, Ill. Superheater for locomotive-boilers. No. 935,224; Sept. 28; Sp. p. 4520; Gaz. vol. 146; p. 804.
- Ott, P., Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azin dye and making same. No. 940,354; Nov. 16; Sp. p. 4232; Gaz. vol. 148; p. 714.
- Ott, W. J., Chicago, Ill. Lining-hoop nailing-horse. No. 931,793; Aug. 24; Sp. p. 4601; Gaz. vol. 145; p. 798.
- Ott, W. J., Merlino, Ore. Running-gear for wagons. No. 944,813; Dec. 28; Sp. p. 6005; Gaz. vol. 149; p. 1034.
- Ottaway, W., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Carbureter. No. 910,226; Jan. 19; Sp. p. 3633; Gaz. vol. 138; p. 660.
- Ottmann, L. (See Kösters and Ottmann.)
- Ottens, L. (See Gifford, W., assignor.)
- Otter, L., Schneidemühl, Germany. Traveling fire-escape. No. 931,702; Aug. 17; Sp. p. 4385; Gaz. vol. 145; p. 745.
- Ottesen, O., Tacoma, Wash. Gage-glass for steam-boilers. No. 925,784; June 22; Sp. p. 5556; Gaz. vol. 143; p. 981.
- Otteson, J. C., Plainfield, N. J. Hand-stamp. No. 940,186; Nov. 16; Sp. p. 3856; Gaz. vol. 148; p. 655.
- Ottinger, P. C., Atlanta, Ga. Cuff-holder. No. 913,761; Mar. 2; Sp. p. 179; Gaz. vol. 140; p. 30.
- Otto, A. D., Hedges, Pa. Safety cartridge-loader. No. 917,649; Apr. 6; Sp. p. 1337; Gaz. vol. 141; p. 236.
- Otto, H., Bloomington, Ill. Air-propeller. No. 933,199; Sept. 7; Sp. p. 365; Gaz. vol. 146; p. 58.
- Otto, W. F., Wilkes-Barre, assignor to Eynon-Evans Mfg. Co., Philadelphia, Pa. Automatic device for controlling the operation of pumps. No. 943,369; Dec. 14; Sp. p. 2874; Gaz. vol. 149; p. 484.
- Otto, W. T., Philadelphia, Pa., and J. R. Douglass, Atlantic City, N. J., assignors of one-third to W. E. Gregg, Philadelphia, Pa. Telephone toll-box. No. 917,115; Apr. 6; Sp. p. 306; Gaz. vol. 141; p. 56.
- Ouchterlony, J. B. H., Cleveland, Ohio, assignor to McMyler Manufacturing Company. Clam-shell bucket. No. 925,018; June 15; Sp. p. 4124; Gaz. vol. 143; p. 702.
- Oudinot, H., and C. Putois, Paris, France. Hydropneumatic wheel. No. 923,881; June 8; Sp. p. 1750; Gaz. vol. 143; p. 291.
- Oudinot, H., and C. Putois, Coudray Montceaux, France. Cushion-wheel. No. 944,576; Dec. 28; Sp. p. 5499; Gaz. vol. 149; p. 954.
- Oudinot, H., and C. Putois, Coudray Montceaux, France. Hydropneumatic spring. No. 944,577; Dec. 28; Sp. p. 5501; Gaz. vol. 149; p. 954.
- Ourdan, V. L., Washington, D. C. Engraving-machine. No. 929,700; Aug. 3; Sp. p. 125; Gaz. vol. 145; p. 22.
- Outeda, M., Habana, Cuba. Mold for building-blocks. No. 937,542; Oct. 19; Sp. p. 4079; Gaz. vol. 147; p. 693.
- Outeda, M., Habana, Cuba. Core for hollow blocks. No. 937,637; Oct. 19; Sp. p. 4248; Gaz. vol. 147; p. 724.
- Outerbridge, E. H., New York, N. Y. Fabric. No. 931,469; Aug. 17; Sp. p. 3898; Gaz. vol. 145; p. 673.
- Outhouse, W. J. (See Locke and Outhouse.)
- Ovenden, W. C., West Boylston, Mass. Foot-rest. No. 926,207; June 29; Sp. p. 6548; Gaz. vol. 143; p. 1158.
- Oventrop, H., St. Louis, Mo. Marine vessel. No. 917,351; Apr. 6; Sp. p. 806; Gaz. vol. 141; p. 138.
- Overbury, F. C., New York, N. Y., assignor to Flintkote Manufacturing Company, Rutherford, N. J. Roofing-package. No. 942,660; Dec. 7; Sp. p. 1308; Gaz. vol. 149; p. 214.
- Overholt, F. M. (See Mitchell and Overholt.)
- Overkamp, C. H., Cincinnati, Ohio. Scaling-machine. No. 934,417; Sept. 14; Sp. p. 2914; Gaz. vol. 146; p. 488.
- Overland, T. M. K., River Forest, Ill., assignor to Eastman Kodak Co., Rochester, N. Y. Photographic-film roll. No. 937,262; Oct. 19; Sp. p. 3473; Gaz. vol. 147; p. 600.
- Overlin, W. S., Fulton, Ore. Sawing-machine. No. 915,210; Mar. 16; Sp. p. 3233; Gaz. vol. 140; p. 565.
- Overly, L. H., Greensburg, Pa. Fire apparatus. No. 922,622; May 25; Sp. p. 5203; Gaz. vol. 142; p. 921.
- Overman, F. T., assignor of one-half to J. F. Lewis, Chicago, Ill. Shaft-tug. No. 913,842; Mar. 2; Sp. p. 341; Gaz. vol. 140; p. 58.
- Overpack, W. (See Fish, P. J., Sr., assignor.)
- Overshiner, J. M. (See Melrose and Overshiner.)
- Overturf, C. W., Dumont, Iowa. Portable concrete-mixer. No. 937,638; Oct. 19; Sp. p. 4249; Gaz. vol. 147; p. 724.
- Oviatt, H. (See Simpson and Oviatt.)
- Owen, C. I., New York, N. Y. Burial-robe. No. 935,398; Sept. 28; Sp. p. 4869; Gaz. vol. 146; p. 861.
- Owen, H. A., and A. K. Pratt, assignors to Whitin Machine Works, Whitinsville, Mass. Pattern mechanism for looms. No. 939,299; Nov. 9; Sp. p. 1879; Gaz. vol. 148; p. 320.
- Owen, H. W., assignor of one-half to C. H. Fish, Dover, N. H. Tension device for shuttles. No. 920,635; May 4; Sp. p. 1097; Gaz. vol. 142; p. 178.
- Owen, I. J., Oak Park, assignor of one-half to W. O. Belt, Chicago, Ill. Display apparatus. No. 924,370; June 8; Sp. p. 2778; Gaz. vol. 143; p. 452.
- Owen, J. G., assignor to R. A. Proudfoot, Portland, Ore. Swivel. No. 935,627; Sept. 28; Sp. p. 5346; Gaz. vol. 146; p. 938.
- Owen, J. H., Stuttgart, Ark. Pump. No. 916,583; Mar. 30; Sp. p. 5959; Gaz. vol. 140; p. 1069.
- Owen, J. H., assignor to L. B. Stephens, Stuttgart, Ark. Pump. No. 929,626; July 27; Sp. p. 6037; Gaz. vol. 144; p. 1057.
- Owen, L. J., Rockwell City, Iowa. Antirooting device for animals. No. 931,794; Aug. 24; Sp. p. 4602; Gaz. vol. 145; p. 798.
- Owen, O. L., assignor to Whitin Machine Works, Whitinsville, Mass. Weight-relieving device. No. 908,606; Jan. 5; Sp. p. 372; Gaz. vol. 138; p. 60.
- Owen, O. L., assignor to Whitin Machine Works, Whitinsville, Mass. Pattern mechanism of looms. No. 928,278; July 20; Sp. p. 3312; Gaz. vol. 144; p. 585.
- Owen, O. N., Forsyth, Ga. Stalk-cutter. No. 920,636; May 4; Sp. p. 1098; Gaz. vol. 142; p. 178.
- Owen, R., Withee, Wis. Chain-hook. No. 916,005; Mar. 23; Sp. p. 4823; Gaz. vol. 140; p. 853.
- Owen, T. R., *et al.* (See Wagniere, A., assignor.)
- Owen, W., San Antonio, Tex. Rotary steam-engine. No. 917,116; Apr. 6; Sp. p. 310; Gaz. vol. 141; p. 57.
- Owen, W. J. (See Kendall and Owen.)
- Owens, A. A., Springfield, Mo. Fishing-float. No. 943,450; Dec. 14; Sp. p. 3048; Gaz. vol. 149; p. 512.
- Owens, B. F., Rockwell City, Iowa. Grain-door for cars. No. 911,521; Feb. 2; Sp. p. 949; Gaz. vol. 139; p. 165.
- Owens, C., Chattanooga, Tenn., assignor to Montague Mailing Machinery Co. Wrapping and pasting machine. No. 911,542; Feb. 2; Sp. p. 986; Gaz. vol. 139; p. 172.



*Alphabetical list of patentees—Continued.*

- Owens, C., Chattanooga, Tenn., assignor to Montague Mailing Machinery Co. Folding and wrapping machine. No. 911,543; Feb. 2; Sp. p. 988; Gaz. vol. 139; p. 172.
- Owens, C., Chattanooga, Tenn., assignor to Montague Mailing Machinery Co. Vehicle-spring. No. 915,470; Mar. 16; Sp. p. 3734; Gaz. vol. 140; p. 649.
- Owens, C., Chattanooga, Tenn., assignor to Montague Mailing Machinery Co. Addressing or mailing machine. No. 922,324; May 18; Sp. p. 4570; Gaz. vol. 142; p. 794.
- Owens, C., Chattanooga, Tenn., assignor to Montague Mailing Machinery Co. Printing-plate. No. 939,739; Nov. 9; Sp. p. 2855; Gaz. vol. 148; p. 470.
- Owens, H. M., San Francisco, Cal. Tire remover and replacer. No. 933,106; Sept. 7; Sp. p. 145; Gaz. vol. 146; p. 24.
- Owens, J. M., Oolitic, and J. A. Rowe and E. E. Mitchell, Bedford, Ind. Sand-feed for stone-sawing machines. No. 912,023; Feb. 9; Sp. p. 2048; Gaz. vol. 139; p. 357.
- Owens, M. (See Wallner and Owens.)
- Owens, R. J., Minneapolis, Minn. Smut-machine. No. 915,107; Mar. 16; Sp. p. 3009; Gaz. vol. 140; p. 531.
- Owens, T. G., Dupuyer, assignor of one-half to J. F. Hughes, Shelby, Mont. Steel-punch. No. 917,739; Apr. 6; Sp. p. 1511; Gaz. vol. 141; p. 265.
- Owens, W. J., assignor of one-half to F. Longo, Scranton, Pa. Slate-picker. No. 944,904; Dec. 28; Sp. p. 6193; Gaz. vol. 149; p. 1065.
- Owens, W. O. (See Suverkrup and Owens.)
- Owers, H. A. and J. C., Soham, England. Valve. No. 935,541; Sept. 28; Sp. p. 5181; Gaz. vol. 146; p. 908.
- Owers, J. C. (See Owers, H. A. and J. C.)
- Owesney, F. W. (See Neel, Williams, and Owesney.)
- Owosso Manufacturing Company. (See Beehler, W., assignor.)
- Owsley, J. S. (See Sloane and Owsley.)
- Ox Fibre Brush Company. (See Leberherz, H. J., assignor.)
- Oxford, C. E., Fayetteville, Ark. Telephone-cabinet. No. 941,336; Nov. 23; Sp. p. 6358; Gaz. vol. 148; p. 1064.
- Oxoline Company *et al.* (See Neel, W. D., assignor.)
- Oyler, W. R., Akron, Ohio. Signaling and operating mechanism for switches. No. 942,099; Dec. 7; Sp. p. 133; Gaz. vol. 149; p. 21.
- Ozias, O. O., Dayton, Ohio. Cheese-cutter. No. 934,208; Sept. 14; Sp. p. 2521; Gaz. vol. 146; p. 416.
- Ozias, O. O., assignor to Computing Scale Company, Dayton, Ohio. Scale. No. 921,881; May 18; Sp. p. 3687; Gaz. vol. 142; p. 650.
- Ozier, J. D. (See Auger, E. P., assignor.)
- P. Prybil Estate. (See Rockenhauser and Fischer, assignors.)
- P. & F. Corbin. (See Arens, A., assignor.)
- P. & F. Corbin. (See Arens and Teich, assignors.)
- P. & F. Corbin. (See Fletcher, J. R., assignor.)
- P. & F. Corbin. (See Hartman, W. T., assignor.)
- P. & F. Corbin. (See Pickop, G. B., assignor.)
- P. & F. Corbin. (See Teich, E. L., assignor.)
- P. & F. Corbin. (See Trask, W. S., assignor.)
- P. H. & F. M. Roots Company. (See Hicks, G. C., Jr., assignor.)
- P. & O. Electric Co. (See Johnson, L. F., assignor.)
- P. R. Manufacturing Company. (See Eden, H. W., assignor.)
- Paalen, G. R., Berlin, Germany. Pitcher. No. 921,729; May 18; Sp. p. 3370; Gaz. vol. 142; p. 599.
- Paalen, G. R., Berlin, Germany, assignor to American Thermos Bottle Company, Brooklyn, N. Y. Double-walled vessel. No. 928,002; July 13; Sp. p. 2697; Gaz. vol. 144; p. 460.
- Paalen, G. R., Berlin, Germany, assignor to American Thermos Bottle Company, Brooklyn, N. Y. Double-walled vessel. No. 930,219; Aug. 3; Sp. p. 1227; Gaz. vol. 145; p. 202.
- Paar, C. L., Scranton, Pa., assignor of one-half to International Salt Company. Package for pulverulent materials. No. 920,637; May 4; Sp. p. 1100; Gaz. vol. 142; p. 178.
- Paar, H., Canton, Ohio, assignor of one-half to C. McGranahan, Chicago, Ill. Horseshoe. No. 912,258; Feb. 9; Sp. p. 2504; Gaz. vol. 139; p. 430.
- Paca, W. S., Oil City, Pa. Telephone supervisory system. No. 933,335; Sept. 7; Sp. p. 684; Gaz. vol. 146; p. 106.
- Pace, J. J. (See Pace, W. S. and J. J.)
- Pace, W. H., *et al.* (See Sims, Hatch, and Turrentine, assignors.)
- Pace, W. S. and J. J., Galveston, Tex. Cotton-chopper. No. 926,594; June 29; Sp. p. 7277; Gaz. vol. 143; p. 1284.
- Pace, W. W. (See Schlar and Pace.)
- Pach, M., Lakewood, N. J. Pillow-sham holder. No. 925,832; June 22; Sp. p. 5763; Gaz. vol. 143; p. 997.
- Pacha, A., Taylor, Tex. Cotton-cultivator. No. 915,693; Mar. 16; Sp. p. 4219; Gaz. vol. 140; p. 727.
- Fachner, I., New York, N. Y. Cap. No. 911,432; Feb. 2; Sp. p. 787; Gaz. vol. 139; p. 137.
- Fachner, I., New York, N. Y. Cap. No. 911,433; Feb. 2; Sp. p. 788; Gaz. vol. 139; p. 137.
- Pacific Electric Heating Company. (See Richardson, E. H., assignor.)
- Pacific Electric Heating Company. (See Richardson, Booth, and Meredith, assignors.)
- Pack, A. B. (See Cornell, E. W., assignor.)
- Packard, C. H., New York, N. Y. Convertible amusement and dining car. No. 914,748; Mar. 9; Sp. p. 2314; Gaz. vol. 140; p. 388.
- Packard, G. W., Jr. (See Warren and Packard.)
- Packard, J. E., Chicago, Ill. Vending-machine. No. 912,606; Feb. 16; Sp. p. 3271; Gaz. vol. 139; p. 587.
- Packard, L. M., Brockton, Mass. Non-refillable bottle. No. 939,300; Nov. 9; Sp. p. 1881; Gaz. vol. 148; p. 320.
- Packard Motor Car Company. (See Huff, R., assignor.)
- Packard Motor Car Company. (See Loomis, A., assignor.)
- Packard Motor Car Company. (See Schmidt, C., assignor.)
- Packe, G. J., London, England. Bottle for teething liquids and other liquids or materials. No. 931,795; Aug. 24; Sp. p. 4604; Gaz. vol. 145; p. 798.
- Packer, H. E., Chicago, Ill. Window-lock. No. 923,696; June 1; Sp. p. 1285; Gaz. vol. 143; p. 200.
- Packer, J. W., Glens Falls, assignor to Sandy Hill Iron and Brass Works, Sandy Hill, N. Y. Reel-belt tightener for paper-making machines. No. 913,231; Feb. 23; Sp. p. 4563; Gaz. vol. 139; p. 819.
- Packer, J. W., Glens Falls, assignor to Sandy Hill Iron and Brass Works, Sandy Hill, N. Y. Paper-making machine. No. 913,670; Feb. 23; Sp. p. 5489; Gaz. vol. 139; p. 966.
- Packer, W. N., Shelby, Ohio, assignor, by mesne assignments, to General Electric Company. Center-tube stem-machine. No. 936,153; Oct. 5; Sp. p. 1163; Gaz. vol. 147; p. 177.
- Packham, F. R., assignor to American Seeding Machine Company, Springfield, Ohio. Bearing for furrow-opening disks. No. 944,045; Dec. 21; Sp. p. 4328; Gaz. vol. 149; p. 746.
- Packman, P. J. (See Hinks-Martin, Cameron, and Packman.)
- Paddison, A. E., Salt Lake City, Utah. Window-screen. No. 918,585; Apr. 20; Sp. p. 3312; Gaz. vol. 141; p. 602.
- Paden, L., Columbus, Ohio. Match-box holder. No. 921,445; May 11; Sp. p. 2783; Gaz. vol. 142; p. 478.
- Paden, L. E., Philadelphia, Pa., assignor to Pay-With-In-Car Company, Wilmington, Del. Passenger railway-car. No. 941,807; Nov. 30; Sp. p. 7402; Gaz. vol. 148; p. 1244.
- Paden, R. F., St. Louis, Mo. Work-box. No. 916,771; Mar. 30; Sp. p. 6288; Gaz. vol. 140; p. 1124.
- Padernacht, A. (See Padernacht, W., assignor.)
- Padernacht, W., New York, N. Y. Skirt. No. 929,106; July 27; Sp. p. 4973; Gaz. vol. 144; p. 885.
- Padernacht, W., New York, N. Y. Skirt. No. 929,163; July 27; Sp. p. 5096; Gaz. vol. 144; p. 905.
- Padernacht, W., assignor to A. Padernacht, New York, N. Y. Attachment for skirts and the like. No. 929,005; July 27; Sp. p. 4764; Gaz. vol. 144; p. 852.
- Padernacht, W., assignor to A. Padernacht, New York, N. Y. Skirt. No. 929,476; July 27; Sp. p. 5744; Gaz. vol. 144; p. 1008.
- Padgett, J. C., Junction City, Kans. Ink-fountain. No. 917,117; Apr. 6; Sp. p. 311; Gaz. vol. 141; p. 57.
- Padgett, J. M., Topeka, Kans. Rubber-tire repairer. No. 913,043; Feb. 23; Sp. p. 4178; Gaz. vol. 139; p. 756.
- Page, A., Toronto, Ontario, Canada. Ballot-box. No. 927,068; July 6; Sp. p. 781; Gaz. vol. 144; p. 124.
- Page, C. C., assignor of one-half to R. Tucker, Portland, Oreg. Drawing instrument. No. 941,687; Nov. 30; Sp. p. 7117; Gaz. vol. 148; p. 1202.
- Page, H. M. (See Havens and Page.)
- Page, J. G., Cedar City, Utah. Rail-joint. No. 929,323; July 27; Sp. p. 5472; Gaz. vol. 144; p. 960.
- Page, J. M., Stockton, Cal. Vehicle-wheel. No. 925,498; June 22; Sp. p. 5029; Gaz. vol. 143; p. 887.
- Page, J. W., Chicago, Ill. Excavating-shovel. No. 916,772; Mar. 30; Sp. p. 6289; Gaz. vol. 140; p. 1125.
- Page, J. W., Chicago, Ill. Excavating-scoop. No. 916,773; Mar. 30; Sp. p. 6290; Gaz. vol. 140; p. 1125.

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- Page, J. W., Chicago, Ill. Car-unloading apparatus. No. 942,840; Dec. 7; Sp. p. 1664; Gaz. vol. 149; p. 272.
- Page, M. H., San Francisco, Cal., assignor to United Sales Company. Safety-vent. No. 937,713; Oct. 19; Sp. p. 4404; Gaz. vol. 147; p. 748.
- Page, P. E., assignor to Talcum Puff Company, Asheville, N. C. Powder-puff. No. 919,065; Apr. 20; Sp. p. 4364; Gaz. vol. 141; p. 762.
- Page, P. L., Mecosta, Mich. Folding umbrella. No. 931,079; Aug. 17; Sp. p. 3071; Gaz. vol. 145; p. 538.
- Page, S. D., and J. C. Hedges, Des Moines, Iowa. Loose-leaf book. No. 931,796; Aug. 24; Sp. p. 4604; Gaz. vol. 145; p. 798.
- Page, W. H., Philadelphia, Pa. Wire staple. No. 919,631; Apr. 27; Sp. p. 5738; Gaz. vol. 141; p. 987.
- Page, W. M., Philadelphia, Pa., assignor to Duplex Metals Company, New York, N. Y. Furnace. No. 929,701; Aug. 3; Sp. p. 128; Gaz. vol. 145; p. 23.
- Pagel, E. A. (See Hardinge and Pagel.)
- Pagès, A. L. A., and R. P. T. Duchemin, Paris, France. Manufacture of acetone. No. 933,107; Sept. 7; Sp. p. 148; Gaz. vol. 146; p. 24.
- Pahlow, F. C., assignor of one-half to A. C. Pessano, Detroit, Mich. Throttle-valve. No. 923,199; June 1; Sp. p. 167; Gaz. vol. 143; p. 27.
- Pahlow, F. C., assignor of one-half to A. C. Pessano, Detroit, Mich. Pipe-coupling. No. 939,539; Nov. 9; Sp. p. 2411; Gaz. vol. 148; p. 400.
- Paige, G. R., *et al.* (See Libby, P. A., assignor.)
- Pain, R. W., assignor to Aeolian Company, New York, N. Y. Tracker-board. No. 911,064; Feb. 2; Sp. p. 82; Gaz. vol. 139; p. 15.
- Pain, R. W., assignor to Aeolian Company, New York, N. Y. Pumping-bellows. No. 911,065; Feb. 2; Sp. p. 85; Gaz. vol. 139; p. 16.
- Pain, R. W., assignor to Aeolian Company, New York, N. Y. Tracker-bar. No. 916,584; Mar. 30; Sp. p. 5961; Gaz. vol. 140; p. 1069.
- Paine, C. D., Donner, La. Lubricator. No. 910,307; Jan. 19; Sp. p. 3833; Gaz. vol. 138; p. 690.
- Paine, C. F., Groveland, Mass. Rotary engine. No. 934,830; Sept. 21; Sp. p. 3729; Gaz. vol. 146; p. 648.
- Paine, D. F. (See Meyers and Paine.)
- Paine, E. C. (See Brown, M. A., assignor.)
- Paine, F. R., Albany, N. Y., assignor to Standard Oil Company of New York. Lubricating device. No. 939,301; Nov. 9; Sp. p. 1883; Gaz. vol. 148; p. 321.
- Paine, G. H., Philadelphia, Pa. Metal box. No. 933,847; Sept. 14; Sp. p. 1811; Gaz. vol. 146; p. 299.
- Paine, O. R., Blackwell, Okla. Shooting-gallery. No. 922,182; May 18; Sp. p. 4286; Gaz. vol. 142; p. 747.
- Paine, S. B., Newton, Mass., assignor to General Electric Company. Apparatus for starting electric motors. No. 940,550; Nov. 16; Sp. p. 4084; Gaz. vol. 148; p. 779.
- Paine, W. A., Orcutt, Cal. Flexible connection for pumping mechanisms. No. 929,164; July 27; Sp. p. 5100; Gaz. vol. 144; p. 906.
- Painter, J. L., Bellevue, Ohio. Power-hammer. No. 941,093; Nov. 23; Sp. p. 5840; Gaz. vol. 148; p. 985.
- Painter, L. L. (See Miller and Painter.)
- Painter, W. A., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburg, Pa. Shade-holder. No. 942,738; Dec. 7; Sp. p. 1464; Gaz. vol. 149; p. 239.
- Pairpoint Corporation. (See Steffin, A., assignor.)
- Paissner, D. T., assignor of one-half to L. Seder, Chelsea, Mass. Vehicle-wheel. No. 935,399; Sept. 28; Sp. p. 4870; Gaz. vol. 146; p. 861.
- Paiste, H. T., Philadelphia, Pa. Outlet-fixture for conduits. No. 919,940; Apr. 27; Sp. p. 6376; Gaz. vol. 141; p. 1089.
- Paiste, H. T., Philadelphia, Pa. Wall-cabinet for electrical apparatus. No. 933,661; Sept. 7; Sp. p. 1416; Gaz. vol. 146; p. 213.
- Palace Automobile Station Company. (See Benson, I. N., assignor.)
- Palmer, C., Aurora, Ill. Trolley-retriever. No. 941,944; Nov. 30; Sp. p. 7673; Gaz. vol. 148; p. 1292.
- Palmer, J. V. O., Milwaukee, Wis. Liquid packing for pumps. No. 912,321; Feb. 16; Sp. p. 2679; Gaz. vol. 139; p. 490.
- Palmer, V. H., Butler, Pa. Reversing mechanism. No. 934,843; Sept. 14; Sp. p. 2775; Gaz. vol. 146; p. 461.
- Palmer, W., Butler, Pa. Trip wall-packer for oil-wells. No. 942,739; Dec. 7; Sp. p. 1465; Gaz. vol. 149; p. 239.
- Palmer, A. E., Owosso, Mich. Clamping-machine. No. 918,192; Apr. 13; Sp. p. 2492; Gaz. vol. 141; p. 446.
- Palmer, C., New York, N. Y., assignor to National Cash Register Company, Dayton, Ohio. Cash-register. No. 929,006; July 27; Sp. p. 4765; Gaz. vol. 144; p. 853.
- Palmer, C. C., Norfolk, Va., assignor to G. Thomas, Brooklyn, N. Y. Box or carton. No. 926,208; June 29; Sp. p. 6549; Gaz. vol. 143; p. 1158.
- Palmer, C. E., Spokane, Wash. Lubricating-washer. No. 924,265; June 8; Sp. p. 2563; Gaz. vol. 143; p. 417.
- Palmer, C. E., Spokane, Wash. Automatic speed-controller. No. 924,266; June 8; Sp. p. 2564; Gaz. vol. 143; p. 417.
- Palmer, C. E., assignor of one-half to C. L. Simmons, Spokane, Wash. Speed-controlling device. No. 927,159; July 6; Sp. p. 952; Gaz. vol. 144; p. 154.
- Palmer, C. M., Montgomery, Ill. Shearing-machine. No. 911,141; Aug. 17; Sp. p. 3206; Gaz. vol. 145; p. 559.
- Palmer, C. S. (See York, W., assignor.)
- Palmer, E. E., Wooster, Ohio. Shade and curtain fixture. No. 918,692; Apr. 20; Sp. p. 3609; Gaz. vol. 141; p. 640.
- Palmer, E. G. (See Waldron, E. D., assignor.)
- Palmer, F., Washington, D. C. Earth-auger. No. 936,350; Oct. 12; Sp. p. 1552; Gaz. vol. 147; p. 266.
- Palmer, F. N. (See Palmer, J. W. and F. N.)
- Palmer, G. E., assignor of one-half to C. B. and F. S. Price, Boston, Mass. Electrical connector. No. 923,071; May 25; Sp. p. 6141; Gaz. vol. 142; p. 1065.
- Palmer, G. E., assignor to Price-McKinlock Company, Boston, Mass. Shade-holder for electric lamps. No. 932,893; Aug. 31; Sp. p. 6893; Gaz. vol. 145; p. 1184.
- Palmer, G. W., *et al.* (See Giddings, F. M., assignor.)
- Palmer, H. A., assignor to Foster, Merriam and Company, Meriden, Conn. Detachable caster for metal bedsteads. No. 918,081; Apr. 13; Sp. p. 2281; Gaz. vol. 141; p. 409.
- Palmer, H. A., assignor to Foster, Merriam and Company, Meriden, Conn. Detachable caster for metal bedsteads. No. 918,082; Apr. 13; Sp. p. 2282; Gaz. vol. 141; p. 410.
- Palmer, H. A., assignor to Foster, Merriam and Company, Meriden, Conn. Detachable caster for metal bedsteads. No. 918,083; Apr. 13; Sp. p. 2284; Gaz. vol. 141; p. 410.
- Palmer, H. R., Seattle, Wash. Telephone attachment. No. 939,439; Nov. 9; Sp. p. 2213; Gaz. vol. 148; p. 368.
- Palmer, H. R., Cleveland, Ohio assignor, by mesne assignments, to F. E. McEwen. Protector for rubber tires. (Reissue.) No. 13,045; Nov. 23; Sp. p. 6406; Gaz. vol. 148; p. 1071.
- Palmer, I. E., Middletown, Conn. Creel. No. 911,904; Feb. 9; Sp. p. 1712; Gaz. vol. 139; p. 317.
- Palmer, I. E., Middletown, Conn. Spindle appurtenance. No. 913,044; Feb. 23; Sp. p. 4180; Gaz. vol. 139; p. 756.
- Palmer, I. E., Middletown, Conn. Guide for textile material. No. 932,315; Aug. 24; Sp. p. 5682; Gaz. vol. 145; p. 970.
- Palmer, I. E., Middletown, Conn. Running-gear for vehicles. No. 938,782; Nov. 2; Sp. p. 707; Gaz. vol. 148; p. 114.
- Palmer, I. E., Middletown, Conn. Trackless power-driven vehicle. No. 938,783; Nov. 2; Sp. p. 712; Gaz. vol. 148; p. 115.
- Palmer, I. E., Middletown, Conn. Running-gear for vehicles. No. 938,784; Nov. 2; Sp. p. 715; Gaz. vol. 148; p. 115.
- Palmer, I. E., Middletown, Conn. Shuttle-picking mechanism for looms. No. 938,785; Nov. 2; Sp. p. 717; Gaz. vol. 148; p. 115.
- Palmer, I. E., Middletown, Conn. Trackless power-driven vehicle. No. 938,786; Nov. 2; Sp. p. 719; Gaz. vol. 148; p. 116.
- Palmer, I. E., Middletown, Conn. Trackless power-driven vehicle. No. 939,077; Nov. 2; Sp. p. 1334; Gaz. vol. 148; p. 217.
- Palmer, I. E., Middletown, Conn. Trackless power-driven vehicle. No. 939,158; Nov. 2; Sp. p. 1516; Gaz. vol. 148; p. 246.
- Palmer, I. E., Middletown, Conn. Textile-conditioning apparatus. No. 941,382; Nov. 30; Sp. p. 6477; Gaz. vol. 148; p. 1102.
- Palmer, I. E., assignor to I. E. Palmer Co., Middletown, Conn. Woven fabric. No. 914,362; Mar. 2; Sp. p. 1517; Gaz. vol. 140; p. 233.
- Palmer, I. E., assignor to I. E. Palmer Co., Middletown, Conn. Couch-hammock. No. 917,650; Apr. 6; Sp. p. 1338; Gaz. vol. 141; p. 236.
- Palmer, I. E., assignor to I. E. Palmer Co., Middletown, Conn. Animal-covering. No. 921,622; May 11; Sp. p. 3144; Gaz. vol. 142; p. 537.
- Palmer, I. E., assignor to I. E. Palmer Co., Middletown, Conn. Hammock attachment. No. 921,623; May 11; Sp. p. 3145; Gaz. vol. 142; p. 538.
- Palmer, I. E., assignor to I. E. Palmer Co., Middletown, Conn. Canopy. No. 926,209; June 29; Sp. p. 6551; Gaz. vol. 143; p. 1158.
- Palmer, I. E., assignor to I. E. Palmer Co., Middletown, Conn. Resilient bottom for couch-hammocks, &c. No. 942,841; Dec. 7; Sp. p. 1606; Gaz. vol. 149; p. 273.
- Palmer, I. E., assignor to I. E. Palmer Co., Middletown, Conn. Couch-hammock. No. 944,814; Dec. 28; Sp. p. 6008; Gaz. vol. 149; p. 1034.
- Palmer, J. J., assignor of one-half to F. L. Gleason, Olean, N. Y. Seal-lock. No. 932,492; Aug. 31; Sp. p. 6060; Gaz. vol. 145; p. 1051.
- Palmer, J. C., Boston, Mass. Machine for making barrel-blanks. No. 917,352; Apr. 6; Sp. p. 807; Gaz. vol. 141; p. 138.
- Palmer, J. F., Chicago, Ill. Tire-casing. No. 924,186; June 8; Sp. p. 2380; Gaz. vol. 143; p. 390.
- Palmer, J. F., Chicago, Ill. Tire-casing. No. 924,267; June 8; Sp. p. 2566; Gaz. vol. 143; p. 418.
- Palmer, J. F., Chicago, Ill. Tire-casing. No. 924,268; June 8; Sp. p. 2569; Gaz. vol. 143; p. 418.
- Palmer, J. F., Chicago, Ill. Tire-casing. No. 924,571; June 8; Sp. p. 3163; Gaz. vol. 143; p. 517.
- Palmer, J. F., Chicago, Ill. Pneumatic tire. No. 924,572; June 8; Sp. p. 3167; Gaz. vol. 143; p. 517.
- Palmer, J. J. (See Walte, F., assignor.)
- Palmer, J. W. and F. N., assignors to Frost Manufacturing Co., Kenosha, Wis. Plumbing-fixture. No. 915,792; Mar. 23; Sp. p. 4418; Gaz. vol. 140; p. 784.
- Palmer, L., Seattle, Wash. Mail-catcher. No. 920,385; May 4; Sp. p. 604; Gaz. vol. 142; p. 96.
- Palmer, L. R., Los Angeles, Cal. Fuel composition and producing the same. No. 942,213; Dec. 7; Sp. p. 394; Gaz. vol. 149; p. 61.



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- Palmer, R., Larchmont, N. Y., assignor to General Electric Company. Sintering apparatus. No. 942,513; Dec. 7; Sp. p. 1019; Gaz. vol. 149; p. 164.
- Palmer, S., Fond du Lac, Wis. Attachment to a printer's perforating-rule. No. 929,702; Aug. 3; Sp. p. 131; Gaz. vol. 145; p. 23.
- Palmer, S. A., Kansas City, Mo. Regulating-valve. No. 942,972; Dec. 14; Sp. p. 2020; Gaz. vol. 149; p. 350.
- Palmer, T. E., and W. W. Baker, Elwood, Ind. Boiler-compound mixer and feeder. No. 939,540; Nov. 9; Sp. p. 2413; Gaz. vol. 148; p. 400.
- Palmer, T. J., Moss Bridge, Darwen, England. Molding. No. 937,714; Oct. 19; Sp. p. 4406; Gaz. vol. 147; p. 748.
- Palmer, W. A. (See Hunter and Palmer.)
- Palmer, W. A., Ludlow, Ky. Car-coupling. No. 935,400; Sept. 28; Sp. p. 4872; Gaz. vol. 146; p. 862.
- Palmer, W. E., Vandalia, and B. P. Scoville, Constantine, Mich. Device for securing screens in well-points. No. 923,371; June 1; Sp. p. 597; Gaz. vol. 143; p. 87.
- Palmer, W. H., Jr. (See Browne and Palmer.)
- Palmer, W. K., Kansas City, Mo. Hydrant. No. 935,857; Oct. 5; Sp. p. 554; Gaz. vol. 147; p. 79.
- Palmer, W. R., Bridgeport, Conn. Water-cooled furnace-valve and chamber therefor. No. 927,378; July 6; Sp. p. 1350; Gaz. vol. 144; p. 224.
- Palmer, W. R., assignor of one-half to F. A. Wilmot, Bridgeport, Conn. Swinging ladle. No. 909,655; Jan. 12; Sp. p. 2464; Gaz. vol. 138; p. 437.
- Palmer, W. R., assignor of one-half to F. A. Wilmot, Bridgeport, Conn. Producing high-grade steel from low-grade material. No. 924,818; June 15; Sp. p. 3702; Gaz. vol. 143; p. 634.
- Palmer, W. R., assignor of one-half to F. A. Wilmot, Bridgeport, Conn. Producing high-grade steel from low-grade material. No. 924,925; June 15; Sp. p. 3922; Gaz. vol. 143; p. 670.
- Palmerton, F. G. (See Fowler, O. R., assignor.)
- Palmgren, C. A., Chicago, Ill. Relay device for electric circuits. No. 919,066; Apr. 20; Sp. p. 4365; Gaz. vol. 141; p. 762.
- Palmowsky, S., New York, N. Y. Cigarette-tipping machine. No. 909,931; Jan. 19; Sp. p. 3030; Gaz. vol. 138; p. 561.
- Palmowsky, S., New York, N. Y. Cigarette-tipping machine. No. 936,026; Oct. 5; Sp. p. 901; Gaz. vol. 147; p. 136.
- Palmowsky, S., New York, N. Y. Cigarette-tipping machine. No. 942,514; Dec. 7; Sp. p. 1021; Gaz. vol. 149; p. 165.
- Palmros, A., assignor to Pneumatic Machine Company, Syracuse, N. Y. Pressure-driven reciprocating tool. No. 937,009; Oct. 12; Sp. p. 2917; Gaz. vol. 147; p. 486.
- Palomino, R. (See Young and Palomino.)
- Pancoast, E. A., et al. (See Grove, J. R., assignor.)
- Pancoast, G. E., Brooklyn, N. Y., assignor to American Lithographic Company. Printing-press. No. 912,724; Feb. 16; Sp. p. 3553; Gaz. vol. 139; p. 628.
- Pancoast, G. E., Brooklyn, N. Y., assignor to American Lithographic Company. Printing-press. No. 942,923; Dec. 14; Sp. p. 1905; Gaz. vol. 149; p. 332.
- Pancoast, G. E., New York, N. Y., assignor to American Lithographic Company. Sheet-delivery mechanism. No. 918,084; Apr. 13; Sp. p. 2285; Gaz. vol. 141; p. 410.
- Pangborn, J. C., and T. Hall, Brooklyn, N. Y. Sand-blast apparatus. No. 925,591; June 22; Sp. p. 5220; Gaz. vol. 143; p. 918.
- Pankey, A., Minden, Miss. Plow. No. 921,730; May 18; Sp. p. 3371; Gaz. vol. 142; p. 600.
- Pankhurst, E., and A. C. Bisbee, Lyle, Minn. Corrugated-metal culvert. No. 944,985; Dec. 28; Sp. p. 6355; Gaz. vol. 149; p. 1090.
- Pannebaker, G. S., Lewistown, Pa. Trolley-wire connection. No. 913,155; Feb. 23; Sp. p. 4394; Gaz. vol. 139; p. 794.
- Pannenberg, E., Syracuse, N. Y. Manhole and bonnet for pipes and furnace-casings. No. 934,751; Sept. 21; Sp. p. 3567; Gaz. vol. 146; p. 622.
- Panse, F., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Universal-joint coupling. No. 924,187; June 8; Sp. p. 2382; Gaz. vol. 143; p. 390.
- Panter, P. (See Loud and Panter.)
- Panton, H. G., Pittsburg, Pa. Chicken coop and nest. No. 936,154; Oct. 5; Sp. p. 1167; Gaz. vol. 147; p. 177.
- Panyard, T. A., assignor to Luther Brothers Company, Milwaukee, Wis. Rotary grinder. No. 912,259; Feb. 9; Sp. p. 2505; Gaz. vol. 139; p. 431.
- Panzer, F. J., Hastings, Nebr. Rotary rack. No. 929,324; July 27; Sp. p. 5473; Gaz. vol. 144; p. 960.
- Papanti, R., Springfield, Mass. Carbureter. No. 939,856; Nov. 9; Sp. p. 3089; Gaz. vol. 148; p. 510.
- Pape, L. A., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 927,274; July 6; Sp. p. 1176; Gaz. vol. 144; p. 193.
- Pape, W., assignor of one-half to K. Heilbrunn Söhne, Berlin, Germany. Mechanically-played keyboard instrument. No. 919,295; Apr. 20; Sp. p. 4998; Gaz. vol. 141; p. 837.
- Papish, J., New York, N. Y. Filling device. No. 940,611; Nov. 16; Sp. p. 4796; Gaz. vol. 148; p. 799.
- Papp, O., McKeesport, Pa. Bottle. No. 940,049; Nov. 16; Sp. p. 3548; Gaz. vol. 148; p. 607.
- Pappano, O., Philadelphia, Pa. Measuring instrument. No. 929,477; July 27; Sp. p. 5747; Gaz. vol. 144; p. 1009.
- Papworth, T., Portland, Oreg. Bath-cabinet. No. 911,434; Feb. 2; Sp. p. 789; Gaz. vol. 139; p. 137.
- Papworth, T., Portland, Oreg. Necktie-fastener and collar-button. No. 937,849; Oct. 26; Sp. p. 4696; Gaz. vol. 147; p. 813.
- Paquette, E. (See Wilson and Paquette.)
- Paquette, H. A., Chicago, Ill. Wrench. No. 911,154; Feb. 2; Sp. p. 263; Gaz. vol. 139; p. 46.
- Paradis, A., assignor to S. Sternberger, Philadelphia, Pa. Ironing-board. No. 910,846; Jan. 26; Sp. p. 4935; Gaz. vol. 138; p. 891.
- Paradis, C., Lowell, Mass. Safety device for elevators. No. 909,322; Jan. 12; Sp. p. 1819; Gaz. vol. 138; p. 326.
- Paragon Mfg. Co. (See Darrow, H. W., assignor.)
- Paragon Suspender Co. (See Mallard, L. L., assignor.)
- Paramount Knitting Company. (See House, W. D. and L. C., assignors.) (Reissue.)
- Paramount Knitting Company. (See Pope, F., assignor.)
- Paravicini, A. von, Hagen, Westphalia, Germany. Diminishing the formation of flaws or blow-holes when casting blocks and other pieces. No. 920,638; May 4; Sp. p. 1102; Gaz. vol. 142; p. 179.
- Pardee, E. T., Boston, Mass. Valve-controlling device. No. 941,033; Nov. 23; Sp. p. 5720; Gaz. vol. 148; p. 965.
- Pardridge, C. E., and O. H. Hertel, assignors of one-third to E. H. Lakeman, Chicago, Ill. Wheel. No. 937,385; Oct. 19; Sp. p. 3728; Gaz. vol. 147; p. 638.
- Parent, E., Malden, Mass. Shoe. No. 916,585; Mar. 30; Sp. p. 5963; Gaz. vol. 140; p. 1070.
- Parenteau, L. P. (See Bonin and Mason, assignors.)
- Parfitt, A., Topeka, Kans., assignor, by mesne assignments, to Pittsburg Pneumatic Company, Canton, Ohio. Fluid-pressure ram. No. 913,970; Mar. 2; Sp. p. 658; Gaz. vol. 140; p. 104.
- Paris, H. V. (See Bradford and Paris.)
- Paris, L. C., and T. Millward, assignors of one-third to J. R. Howell, San Francisco, Cal. Apparatus for carbonating and dispensing beverages. No. 935,858; Oct. 5; Sp. p. 557; Gaz. vol. 147; p. 80.
- Paris, W., Manchester, N. H., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-building machine. No. 939,302; Nov. 9; Sp. p. 1885; Gaz. vol. 148; p. 321.
- Paris, W. A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controller for electric motors. No. 910,951; Jan. 26; Sp. p. 5136; Gaz. vol. 138; p. 925.
- Parisen, R. T., Pittsburg, Pa. Towel-cabinet. No. 940,717; Nov. 23; Sp. p. 5038; Gaz. vol. 148; p. 860.
- Parish, A. A., Wichita, Kans. Hay-fork. No. 923,072; May 25; Sp. p. 6142; Gaz. vol. 142; p. 1066.
- Parish and Bingham Company. (See Cairns, W., assignor.)
- Parish & Bingham Company. (See Curtis, G. W., assignor.)
- Parish & Bingham Company. (See Morse, G. W., assignor.)
- Parish, E., Milford, N. Y. Alarm for boilers. No. 929,478; July 27; Sp. p. 5750; Gaz. vol. 144; p. 1009.
- Parish, L., and R. B. Kendig, Cleveland, Ohio. Door-stop. No. 926,595; June 29; Sp. p. 7278; Gaz. vol. 143; p. 1285.
- Parizek, F., assignor to Universal Wind Shield Company, Chicago, Ill. Wind-shield for automobiles. No. 930,560; Aug. 10; Sp. p. 1926; Gaz. vol. 145; p. 340.
- Parizek, F., assignor to Quincy Brass Works, Chicago, Ill. Chime-whistle. No. 936,253; Oct. 5; Sp. p. 1343; Gaz. vol. 147; p. 207.
- Park, F. and R., Kendal, England. Gas-burner. No. 922,502; May 26; Sp. p. 4940; Gaz. vol. 142; p. 880.
- Park, J. M., Pittsburg, Pa. Air-ship. No. 924,495; June 8; Sp. p. 3015; Gaz. vol. 143; p. 492.
- Park, M. B., Council Bluffs, Iowa. Nut-lock. No. 932,894; Aug. 31; Sp. p. 6895; Gaz. vol. 145; p. 1184.
- Park, M. S., et al. (See Hallwood, H. S., assignor.)
- Park, R. (See Park, F. and R.)
- Park, S. T., and J. E. Phillips, Danville, assignors to Locomotive Recording Dynamometer Company, Chicago, Ill. Gearing for locomotive recording instruments. No. 935,682; Oct. 5; Sp. p. 127; Gaz. vol. 147; p. 21.
- Park, W. D., Philadelphia, Pa. Attachment for picker-sticks. No. 938,694; Nov. 2; Sp. p. 545; Gaz. vol. 148; p. 85.
- Park, W. N., Corning, N. Y. Gear-shipper for farming and similar machinery. No. 919,067; Apr. 20; Sp. p. 4366; Gaz. vol. 141; p. 762.

*Alphabetical list of patentees—Continued.*

- Parke, Davis & Company. (See Orndorff, W. R., assignor.)
- Parke, J. Y., Philadelphia, Pa. Gas-burner. No. 908,607; Jan. 5; Sp. p. 374; Gaz. vol. 138; p. 60.
- Parker, A., Dannevirke, New Zealand. Machine for vending postage-stamps or the like. No. 913,843; Mar. 2; Sp. p. 343; Gaz. vol. 140; p. 59.
- Parker, A. J., Newark, N. J. Automobile-support. No. 917,353; Apr. 6; Sp. p. 809; Gaz. vol. 141; p. 138.
- Parker, A. L., Cleveland, Ohio. Device for regulating the speed of generators to secure constant potential. No. 935,051; Sept. 28; Sp. p. 4179; Gaz. vol. 146; p. 748.
- Parker, A. M., Los Angeles, Cal. Sewing-awl. No. 909,817; Jan. 12; Sp. p. 2783; Gaz. vol. 138; p. 490.
- Parker, A. W., Victor, Mich. Smoke-flue. No. 915,211; Mar. 16; Sp. p. 3234; Gaz. vol. 140; p. 565.
- Parker, B. W., Detroit, Mich. Hopper-bottom cart. No. 934,831; Sept. 21; Sp. p. 3732; Gaz. vol. 146; p. 648.
- Parker, C. C., Baltimore, Md., assignor to Hagerstown Cap Company. Closure for jars. No. 934,832; Sept. 21; Sp. p. 3734; Gaz. vol. 146; p. 649.
- Parker, C. L., Lynn, and W. C. Collyer, Reading, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Sole-leveling machine. No. 939,621; Nov. 9; Sp. p. 2599; Gaz. vol. 148; p. 428.
- Parker, C. M., Pittsburgh, Pa. Safety-switch. No. 933,387; Sept. 7; Sp. p. 805; Gaz. vol. 146; p. 125.
- Parker, C. W., Elgin, Oreg. Car-wheel axle. No. 919,068; Apr. 20; Sp. p. 4367; Gaz. vol. 141; p. 763.
- Parker, C. W., Springfield, assignor to Lamb Knitting Machine Co., Chicopee Falls, Mass. Transmission-gearing. No. 941,034; Nov. 23; Sp. p. 5721; Gaz. vol. 148; p. 965.
- Parker, C. W., Springfield, assignor to Lamb Knitting Machine Company, Chicopee Falls, Mass. Transmission-gearing. No. 941,035; Nov. 23; Sp. p. 5724; Gaz. vol. 148; p. 966.
- Parker, D. E., Niagara Falls, N. Y. Apparatus for preparing oxone. No. 909,017; Jan. 5; Sp. p. 1201; Gaz. vol. 138; p. 192.
- Parker, D. E., Niagara Falls, N. Y. Treating sodium peroxid. No. 935,542; Sept. 28; Sp. p. 5182; Gaz. vol. 146; p. 909.
- Parker, E. A. (See Backé, T. A., assignor.)
- Parker, E. A., assignor of one-half to J. W. Davis and one-sixth to C. H. Cox, Meriden, Conn. Coaster and bottle-opener. No. 937,850; Oct. 26; Sp. p. 4697; Gaz. vol. 147; p. 813.
- Parker, E. C. S., U. S. Navy. Base-ball-game apparatus. No. 915,108; Mar. 16; Sp. p. 3011; Gaz. vol. 140; p. 531.
- Parker, E. C. S., U. S. Navy. Puzzle apparatus. No. 923,372; June 1; Sp. p. 598; Gaz. vol. 143; p. 87.
- Parker, E. D., assignor to Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn. Combination curtain-bracket. No. 940,820; Nov. 23; Sp. p. 5277; Gaz. vol. 148; p. 895.
- Parker, E. F., Fairfield, Me. Washboiler. No. 920,171; May 4; Sp. p. 151; Gaz. vol. 142; p. 24.
- Parker, E. F., Fairfield, Me. Causticizing-tank. No. 941,036; Nov. 23; Sp. p. 5727; Gaz. vol. 148; p. 966.
- Parker, E. F., Fairfield, Me. Charging pulp-digesters. No. 942,924; Dec. 14; Sp. p. 1911; Gaz. vol. 149; p. 333.
- Parker, E. F., Fairfield, Me. Machine for saving waste pulp. No. 942,925; Dec. 14; Sp. p. 1913; Gaz. vol. 149; p. 333.
- Parker, E. J. (See Stutts, H. L., assignor.)
- Parker, E. T., Vermilion parish, La. Windmill. No. 911,752; Feb. 9; Sp. p. 1439; Gaz. vol. 139; p. 268.
- Parker, F. C., Taunton, Mass. Foot-register. No. 911,436; Feb. 2; Sp. p. 793; Gaz. vol. 139; p. 138.
- Parker, F. E., Lansing, Mich. Combined clutch and governor. No. 937,851; Oct. 26; Sp. p. 4698; Gaz. vol. 147; p. 813.
- Parker, F. G., Sr., Alameda, Cal. Door and like fastener. No. 926,018; June 22; Sp. p. 6129; Gaz. vol. 143; p. 1058.
- Parker, F. R. (See Parker, K. E., assignor.)
- Parker, F. W., New York, N. Y., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Crank-making. No. 929,241; July 27; Sp. p. 5249; Gaz. vol. 144; p. 930.
- Parker, G. D., Riverside, Cal. Hand-truck. (Reissue.) No. 12,948; Apr. 27; Sp. p. 6757; Gaz. vol. 141; p. 1144.
- Parker, G. D., Riverside, Cal. Hand-truck. No. 943,265; Dec. 14; Sp. p. 2649; Gaz. vol. 149; p. 449.
- Parker, G. E., Amsterdam, N. Y. Match-safe. No. 918,085; Apr. 13; Sp. p. 2290; Gaz. vol. 141; p. 410.
- Parker, G. H., Dayton, Ohio. Game. No. 922,717; May 25; Sp. p. 5396; Gaz. vol. 142; p. 951.
- Parker, G. T. (See Rogers and Parker.)
- Parker, H. E., Winchendon, Mass. Convertible sleigh or go-cart. No. 909,211; Jan. 12; Sp. p. 1607; Gaz. vol. 138; p. 289.
- Parker, H. E., assignor to Y. T. Frazee, Montclair, N. J. Spark-plug. No. 913,045; Feb. 23; Sp. p. 4182; Gaz. vol. 139; p. 757.
- Parker, H. G., Liberty, Mo. Separating apparatus. No. 934,833; Sept. 21; Sp. p. 3735; Gaz. vol. 146; p. 649.
- Parker, H. H., Cleveland, Ohio. Self-restoring trolley. No. 940,718; Nov. 23; Sp. p. 5040; Gaz. vol. 148; p. 861.
- Parker, J., assignor to Kestner Evaporator Company, Philadelphia, Pa. Evaporating apparatus. No. 940,473; Nov. 16; Sp. p. 4506; Gaz. vol. 148; p. 733.
- Parker, J. C., Philadelphia, Pa. Superheater-boiler. No. 908,882; Jan. 5; Sp. p. 933; Gaz. vol. 138; p. 148.
- Parker, J. C., Philadelphia, Pa. Boiler-furnace. No. 914,749; Mar. 9; Sp. p. 2317; Gaz. vol. 140; p. 388.
- Parker, J. C., Philadelphia, Pa. Steam-generator. No. 941,462; Nov. 30; Sp. p. 6660; Gaz. vol. 148; p. 1129.
- Parker, J. C., Philadelphia, Pa. Steam-boiler. No. 943,452; Dec. 14; Sp. p. 3050; Gaz. vol. 149; p. 512.
- Parker, J. F., Kansas City, Mo. Cash register, indicator, and recorder. No. 913,549; Feb. 23; Sp. p. 5203; Gaz. vol. 139; p. 927.
- Parker, J. F., Kansas City, Mo. Cash register, indicator, and recorder. No. 913,550; Feb. 23; Sp. p. 5217; Gaz. vol. 139; p. 927.
- Parker, J. F., Kansas City, Mo. Cash register and indicator. No. 913,551; Feb. 23; Sp. p. 5230; Gaz. vol. 139; p. 927.
- Parker, J. F., Portland, Me. Bottle-holder. No. 934,344; Sept. 14; Sp. p. 2776; Gaz. vol. 145; p. 461.
- Parker, J. F., assignor to Pittsburgh Automatic Smoke Preventor Company, Pittsburg, Pa. Muffler for mixers. No. 924,926; June 15; Sp. p. 3925; Gaz. vol. 143; p. 670.
- Parker, J. F., assignor to Pittsburgh Automatic Smoke Preventor Company, Pittsburg, Pa. Automatic shut-off. No. 940,050; Nov. 16; Sp. p. 3550; Gaz. vol. 148; p. 607.
- Parker, J. G., Washington, Pa. Check-valve. No. 943,451; Dec. 14; Sp. p. 3049; Gaz. vol. 149; p. 512.
- Parker, J. H., *et al.* (See Charlton, T., assignor.)
- Parker, J. L., Philadelphia, Pa. Cuff-attachor. No. 911,155; Feb. 2; Sp. p. 265; Gaz. vol. 139; p. 46.
- Parker, J. N., assignor one-half to L. L. Mitchell, Kingfield, Me. Agricultural shovel. No. 929,479; July 27; Sp. p. 5751; Gaz. vol. 144; p. 1009.
- Parker, J. W., Beverly, N. J. Exhaust-head. No. 942,585; Dec. 7; Sp. p. 1155; Gaz. vol. 149; p. 188.
- Parker, K. E., La Fayette, Ind., assignor of one-half to F. R. Parker, Chicago, Ill. Combined cork-puller and time-indicator. No. 910,845; Jan. 26; Sp. p. 4934; Gaz. vol. 138; p. 891.
- Parker, L. C., and F. W. Bussmeyer, St. Louis, Mo. Gas-producer. No. 924,819; June 15; Sp. p. 3705; Gaz. vol. 143; p. 635.
- Parker, M. B., Waterville, Me. Recoil-pad for firearms. No. 935,163; Sept. 28; Sp. p. 4403; Gaz. vol. 146; p. 786.
- Parker, M. L., Freeport, Ill. Vent mechanism. No. 935,808; Oct. 5; Sp. p. 451; Gaz. vol. 147; p. 63.
- Parker, M. M., Troy, N. Y. Means for rolling sheet-metal cylinders. No. 932,168; Aug. 24; Sp. p. 5403; Gaz. vol. 145; p. 922.
- Parker, M. O., assignor of one-half to J. P. Haun, Burlington, Ind. End-gate for wagons. No. 930,881; Aug. 10; Sp. p. 2606; Gaz. vol. 145; p. 445.
- Parker Machine Company. (See Kidder, W. P., assignor.)
- Parker Manufacturing Company. (See Bilger, S., assignor.)
- Parker Manufacturing Company. (See Campbell, S. A., assignor.)
- Parker, P. A. (See Beall and Parker.)
- Parker, R. L., Waynesboro, Miss. Bedstead-brace. No. 911,325; Feb. 2; Sp. p. 601; Gaz. vol. 139; p. 102.
- Parker-Russell Mining & Manufacturing Company. (See Russell, D. R., assignor.)
- Parker, S. (See Rhoads, Hirst, Parker, and Tavernor.)
- Parker, T., London, England. Retort for the distillation of coal and other carbonaceous substances. No. 913,552; Feb. 23; Sp. p. 5238; Gaz. vol. 139; p. 928.
- Parker, T., London, Ontario, Canada. Car-heating system. No. 923,570; June 1; Sp. p. 1019; Gaz. vol. 143; p. 156.
- Parker, T., Ironbridge, England. Distillation of bituminous coal or similar carbonaceous substances. No. 941,352; Nov. 23; Sp. p. 6399; Gaz. vol. 148; p. 1070.
- Parker, T. A., Providence, assignor to F. E. and A. C. Walker, River Point, R. I. Adjuster for electric-light cords or cables. No. 936,156; Oct. 5; Sp. p. 1170; Gaz. vol. 147; p. 178.
- Parker, T. R. G., Broadheath, assignor to Linotype and Machinery Limited, London, England. Side-lay apparatus for printing-machines. No. 936,027; Oct. 5; Sp. p. 902; Gaz. vol. 147; p. 136.
- Parker, T. R. G., Broadheath, assignor to Linotype and Machinery Limited, London, England. Sheet-inverting apparatus for use in connection with printing-machines. No. 939,541; Nov. 9; Sp. p. 2415; Gaz. vol. 148; p. 401.
- Parker, V. O., Raleigh, N. C. Fastening for hitching-straps. No. 927,275; July 6; Sp. p. 1177; Gaz. vol. 144; p. 193.
- Parker, W. D., assignor of one-third to L. F. McKoy, Rome, Ga. Music-leaf turner. No. 923,440; June 1; Sp. p. 740; Gaz. vol. 143; p. 109.
- Parker, W. H., Passaic, N. J., assignor, by mesne assignments, to A. A. Maxfield, Batesville, Ark. Match-machine. No. 921,731; May 18; Sp. p. 3373; Gaz. vol. 142; p. 600.
- Parker, W. H., Passaic, N. J., assignor to C. A. Tatum, New York, N. Y. Splint-holding frame. No. 925,592; June 22; Sp. p. 5221; Gaz. vol. 143; p. 919.
- Parker, W. L. (See Hardman, G. H., assignor.)



*Alphabetical list of patentees—Continued.*

- Parker, W. M. (See Nummy, B. F., assignor.)  
Parker, W. M., U. S. Army. Soap-holder. No. 925,943; June 22; Sp. p. 5984; Gaz. vol. 143; p. 1033.  
Parker, W. R. P., *et al.* (See Price, H. W., assignor.)  
Parkersburg Machine Company. (See Callanan, J. T., assignor.)  
Parkhill Manufacturing Company. (See Flight and Tilton, assignors.)  
Parkhurst, E. B., Moline, Ill. Engine or motor. No. 935,809; Oct. 5; Sp. p. 452; Gaz. vol. 147; p. 64.  
Parks, A. M., Philadelphia, Pa. Swinging display-leaves. No. 909,210; Jan. 12; Sp. p. 1606; Gaz. vol. 138; p. 288.  
Parks, D., St. Louis, Mo. Gravity molding apparatus. No. 910,718; Jan. 26; Sp. p. 4676; Gaz. vol. 138; p. 850.  
Parks, D., assignor to Mitchell-Parks Manufacturing Company, St. Louis, Mo. Molding-machine. No. 911,066; Feb. 2; Sp. p. 86; Gaz. vol. 139; p. 16.  
Parks, E. F., and S. W. Wardwell, Providence, R. I. Braiding-machine. No. 939,622; Nov. 9; Sp. p. 2602; Gaz. vol. 148; p. 428.  
Parks, F. E. (See McKennan and Parks.)  
Parks, F. E. (See McKennan, Parks, and Gillin.)  
Parks, F. E., Pueblo, Colo. Furnace-port-cooling means. No. 932,493; Aug. 31; Sp. p. 6063; Gaz. vol. 145; p. 1051.  
Parks, G. A., Lexington, Mo. Lock for wagons. No. 915,623; Mar. 16; Sp. p. 4059; Gaz. vol. 140; p. 701.  
Parks, H. J. (See Pearson, E. I., assignor.)  
Parks, J. R., Spokane, Wash. Treating ores. No. 940,821; Nov. 23; Sp. p. 5279; Gaz. vol. 148; p. 895.  
Parks, J. T., and M. T. Davis, Jr., Charleston, W. Va. Mine-car wheel. No. 909,112; Jan. 5; Sp. p. 1407; Gaz. vol. 138; p. 224.  
Parks, J. W., Muskogee, Okla., assignor of one-half to W. M. Harrison, one-eighth to E. R. Crooker, Lauderdale, Miss., and one-fourth to T. Duncan, Muskogee county, Okla. Crude-oil burner. No. 909,323; Jan. 12; Sp. p. 1820; Gaz. vol. 138; p. 326.  
Parks, M. F. and O., Capac, Mich. Culvert. No. 925,019; June 15; Sp. p. 4126; Gaz. vol. 143; p. 702.  
Parks, O. (See Parks, M. F. and O.)  
Parks, R., Denver, Colo. Disappearing manhole-guard. No. 911,753; Feb. 9; Sp. p. 1440; Gaz. vol. 139; p. 268.  
Parks, T., and J. Coughlin, Columbus, N. D. Plow. No. 924,371; June 8; Sp. p. 2782; Gaz. vol. 143; p. 453.  
Parks, T., and J. Coughlin, Columbus, N. D. Combined fish-plate and rail-chair. No. 929,480; July 27; Sp. p. 5752; Gaz. vol. 144; p. 1010.  
Parks, W. J., *et al.* (See Leavell, T. G., assignor.)  
Parks, W. M., and B. B. Cross, Gas City, Ind. Medical implement. No. 912,024; Feb. 9; Sp. p. 2050; Gaz. vol. 139; p. 357.  
Parle, W. J., Pontiac, Mich. Multiple-door bolt. No. 922,325; May 18; Sp. p. 4573; Gaz. vol. 142; p. 794.  
Parlin & Orendorff Company. (See Graham, W. S., assignor.)  
Parlin & Orendorff Company. (See Parlin, W. H., assignor.)  
Parlin, W. H., assignor to Parlin & Orendorff Company, Canton, Ill. Truck for harrows. No. 919,755; Apr. 27; Sp. p. 5980; Gaz. vol. 141; p. 1028.  
Parmelee, C. L. (See Ferlià, J., assignor.)  
Parmenter, E. L., Menominee, Mich. Omnibus-rocker. No. 915,793; Mar. 23; Sp. p. 4421; Gaz. vol. 140; p. 784.  
Parmenter, G. A., Boston, Mass. Fender or guard for railway-cars. No. 921,882; May 18; Sp. p. 3688; Gaz. vol. 142; p. 650.  
Parmenter, O. L., assignor to Racine Paper Goods Company, Racine, Wis. Dispensing-container. No. 936,803; Oct. 12; Sp. p. 2514; Gaz. vol. 147; p. 419.  
Parmenter, W. A., assignor to C. S. Pierce, Brockton, Mass. Scouring-machine. No. 932,638; Aug. 31; Sp. p. 6381; Gaz. vol. 145; p. 1101.  
Parmenter, W. A., and A. B. Alden, assignors of one-third to C. S. Pierce, Brockton, Mass. Skiving-machine. No. 944,103; Dec. 21; Sp. p. 4440; Gaz. vol. 149; p. 765.  
Parnall, A. N., Florence, Colo. Centrifugal pump. No. 921,624; May 11; Sp. p. 3148; Gaz. vol. 142; p. 538.  
Parnall, J. B. (See Youngberg and Parnall.)  
Parnell, R. E. L., Gainesville, Ga. Window-screen. No. 933,782; Sept. 14; Sp. p. 1674; Gaz. vol. 146; p. 277.  
Parodi, L., Genoa, Italy. Hoisting vessel for raising and carrying submerged objects. No. 916,006; Mar. 23; Sp. p. 4824; Gaz. vol. 140; p. 853.  
Paroubek, B. A., Plainfield, N. J. Wristband. No. 911,326; Feb. 2; Sp. p. 601; Gaz. vol. 139; p. 103.  
Parpart, O., Cleveland, Ohio. Chuck-jaw. No. 926,073; June 22; Sp. p. 6250; Gaz. vol. 143; p. 1077.  
Parr-Colyar Warehouse Supply Company. (See Colyar, W. H., assignor.)  
Parr, G. W. (See Dahl, L. F., assignor.)  
Parr, W. E., Sparta, Mo. Lubricator. No. 913,553; Feb. 23; Sp. p. 5239; Gaz. vol. 139; p. 928.  
Parrett, J., assignor to Ves-Tong Mfg. Co., Wenona, Ill. Lifting-tongs. No. 937,028; Oct. 12; Sp. p. 2964; Gaz. vol. 147; p. 493.  
Parrish, A. L., and J. H. Lamoreux, Wilkes-Barre, Pa. Pitman connection for shakers. No. 914,504; Mar. 9; Sp. p. 1783; Gaz. vol. 140; p. 306.  
Parrish, G. W., Theresa, N. Y. Ironing-board. No. 910,227; Jan. 19; Sp. p. 3637; Gaz. vol. 138; p. 661.  
Parrish, H. L., Benton Harbor, Mich. Automobile-truck. No. 924,820; June 15; Sp. p. 3706; Gaz. vol. 143; p. 635.  
Parrish, H. L., Benton Harbor, Mich. Driving-gear for motor-vehicles. No. 924,821; June 15; Sp. p. 3708; Gaz. vol. 143; p. 635.  
Parrish, J. E., Springfield, Mass. Roller-bearing. No. 927,160; July 6; Sp. p. 953; Gaz. vol. 144; p. 154.  
Parrish, J. F. (See Wray, J. H., assignor.)  
Parrish, J. V. (See Walker and Parrish.)  
Parrish, L. A., Great Barrington, Mass. Attaching device for electric fixtures. No. 922,623; May 25; Sp. p. 5205; Gaz. vol. 142; p. 921.  
Parrish, W. B., Kara, Va. Combined planter and fertilizer-distributor. No. 922,028; May 18; Sp. p. 3996; Gaz. vol. 142; p. 698.  
Parrish, W. H., Jr., Nashville, Tenn. Signal. No. 912,159; Feb. 9; Sp. p. 2304; Gaz. vol. 139; p. 400.  
Parrott, E. D., Seattle, Wash. Propeller. No. 930,220; Aug. 3; Sp. p. 1228; Gaz. vol. 145; p. 202.  
Parrott, W. J., St. Edward, Nebr. Trip-guard. No. 915,471; Mar. 16; Sp. p. 3735; Gaz. vol. 140; p. 649.  
Parry, D., Dowlais, and E. Evans, Penydaren, Merthyr, England; said Evans assignor to said Parry. Lifting-dog. No. 934,010; Sept. 14; Sp. p. 2120; Gaz. vol. 146; p. 350.  
Parry Manufacturing Company. (See Parry and Byers, assignors.)  
Parry, R. R., New York, N. Y., assignor to Automatic Hotel Service Co. Dish-washing machine. No. 927,590; July 13; Sp. p. 1816; Gaz. vol. 144; p. 323.  
Parry, S. R. (See Morse, W. F., assignor.)  
Parry, T. H., and W. J. Byers, assignors to Parry Manufacturing Company, Indianapolis, Ind. School-wagon. No. 937,953; Oct. 26; Sp. p. 4903; Gaz. vol. 147; p. 847.  
Parsons, A., *et al.* (See Wright, J. C. and B., assignors.)  
Parsons, A. D., *et al.* (See Howard, J. I., assignor.)  
Parsons, A. H., Cleveland, Ohio. Collar. No. 918,466; Apr. 13; Sp. p. 3046; Gaz. vol. 141; p. 535.  
Parsons, C., Cleveland, Ohio. Rail-joint. No. 937,740; Oct. 19; Sp. p. 4459; Gaz. vol. 147; p. 756.  
Parsons, C. A., Newcastle-upon-Tyne, England. Means for heating thick flanges of turbines. No. 935,683; Oct. 5; Sp. p. 130; Gaz. vol. 147; p. 21.  
Parsons, C. A., Newcastle-upon-Tyne, and J. Turnbull, Wallsend, England; said Turnbull assignor to said Parsons. Fluid-pressure packing. No. 909,324; Jan. 12; Sp. p. 1822; Gaz. vol. 138; p. 327.  
Parsons, C. A., and A. H. Law, Newcastle-upon-Tyne, England; said Law assignor to said Parsons. Dynamo-electric machinery. No. 925,499; June 22; Sp. p. 5030; Gaz. vol. 143; p. 887.  
Parsons, C. A., Newcastle-upon-Tyne, and E. C. Carnt, East Cowes, Isle of Wight, England; said Carnt assignor to said Parsons. Securing metal strips in grooves. No. 930,413; Aug. 10; Sp. p. 1592; Gaz. vol. 145; p. 289.  
Parsons, C. E. (See Hilliard and Parsons.)  
Parsons, E. J., Mount Sterling, Iowa. Vapor-burning lamp. No. 920,172; May 4; Sp. p. 151; Gaz. vol. 142; p. 24.  
Parsons, F., Boston, Mass. Tile floor. No. 916,007; Mar. 23; Sp. p. 4825; Gaz. vol. 140; p. 853.  
Parsons, F., Boston, Mass. Cord terminal. No. 941,808; Nov. 30; Sp. p. 7403; Gaz. vol. 148; p. 1244.  
Parsons, G. W. (See Spangle and Parsons.)  
Parsons, H., Deer Lodge, Mont. Automobile-tire. No. 921,151; May 11; Sp. p. 2149; Gaz. vol. 142; p. 378.  
Parsons, J. J., Mount Ida, Ark. Wrench. No. 931,640; Aug. 17; Sp. p. 4212; Gaz. vol. 145; p. 723.  
Parsons, M., assignor to G. E. Clark and J. F. Campbell, Mangum, Okla. Foldable chicken coop or crate. No. 944,377; Dec. 28; Sp. p. 5026; Gaz. vol. 149; p. 884.  
Parsons, N. B., assignor to Belden Manufacturing Company, Chicago, Ill. Attachment for telephones. No. 936,254; Oct. 5; Sp. p. 1344; Gaz. vol. 147; p. 207.  
Parsons, N. B., and A. Beutler, assignors to Belden Manufacturing Company, Chicago, Ill. Telephone attachment. No. 908,490; Jan. 5; Sp. p. 110; Gaz. vol. 138; p. 21.  
Parsons, W. J., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Bit-gage. No. 922,808; May 25; Sp. p. 5582; Gaz. vol. 142; p. 980.  
Parsons, W. J., and J. A. Leland, Montague, assignors to Millers Falls Company, Millers Falls, Mass. Drill-brace. No. 942,536; Dec. 7; Sp. p. 1157; Gaz. vol. 149; p. 183.  
Parsons, W. N. (See Davis and Parsons.)

*Alphabetical list of patentees—Continued.*

- Parsons, W. R., assignor to Chicago Title & Trust Company, Chicago, Ill. Combined tuck marker and folder. No. 920,081; Apr. 27; Sp. p. 6679; Gaz. vol. 141; p. 1135.
- Parsons, W. R., assignor to Chicago Title & Trust Company, Chicago, Ill. Sewing-machine hemmer. No. 922,440; May 18; Sp. p. 4816; Gaz. vol. 142; p. 833.
- Parsons, W. R., assignor to Chicago Title Trust Company, trustee, Chicago, Ill. Sewing-machine ruffler. No. 928,792; July 20; Sp. p. 4327; Gaz. vol. 144; p. 754.
- Parsons, W. R., assignor to Chicago Title and Trust Company, trustee, Chicago, Ill. Box. No. 928,881; July 20; Sp. p. 4508; Gaz. vol. 144; p. 785.
- Parsons, W. R., assignor to Chicago Title & Trust Company, trustee, Chicago, Ill. Ruffler for sewing-machines. No. 931,641; Aug. 17; Sp. p. 4213; Gaz. vol. 145; p. 723.
- Parsons, W. W., Washington, D. C. Mechanism for locking split bolts. No. 920,386; May 4; Sp. p. 606; Gaz. vol. 142; p. 96.
- Partello, W. (See Casale and Partello.)
- Partie, W. A., assignor of one-half to W. L. Blakeslee, Buffalo, N. Y. Stamp-affixing machine. No. 933,262; Sept. 7; Sp. p. 530; Gaz. vol. 146; p. 82.
- Partin, H. W., Portsmouth, Va. Treating molten metal. No. 933,576; Sept. 7; Sp. p. 1253; Gaz. vol. 146; p. 185.
- Partin, H. W., Portsmouth, Va. Hardening and toughening metal. No. 937,263; Oct. 19; Sp. p. 3474; Gaz. vol. 147; p. 600.
- Partlow, C., Rockhill, S. C., assignor to Crompton & Knowles Loom Works. Side-filling stop-motion for looms. No. 915,472; Mar. 16; Sp. p. 3736; Gaz. vol. 140; p. 649.
- Parton, A. J., assignor of one-half to J. W. McCutchan, Big Spring, Tex. Harvester. No. 911,754; Feb. 9; Sp. p. 1441; Gaz. vol. 139; p. 269.
- Parton, G. P., Washington, D. C. Car-buffer. No. 912,160; Feb. 9; Sp. p. 2308; Gaz. vol. 139; p. 400.
- Parton, W. H., Lincoln, Nebr., assignor of one-half to L. P. Zolman, Thayer, Iowa. Automatic tank-valve. No. 913,554; Feb. 23; Sp. p. 5240; Gaz. vol. 139; p. 928.
- Partridge, A. H., Denver, Colo. Indicator attachment for type-writing machines. No. 909,656; Jan. 12; Sp. p. 2465; Gaz. vol. 138; p. 437.
- Paruszewski, E., Kottbus, Germany. Apparatus for knotting pile-threads. No. 921,446; May 11; Sp. p. 2784; Gaz. vol. 142; p. 479.
- Parvin, W. J., Maryville, Mo. Trace-releaser. No. 938,072; Oct. 26; Sp. p. 5161; Gaz. vol. 147; p. 886.
- Päschke, B. (See Kleber, W., assignor.)
- Paschke, O. H., Lynd, Minn. Concave for threshing-machines. No. 941,037; Nov. 23; Sp. p. 5728; Gaz. vol. 148; p. 967.
- Pasino, M., Cheboygan, Mich. Pan-lifter. No. 916,189; Mar. 23; Sp. p. 5158; Gaz. vol. 140; p. 913.
- Passage, C. E., Pasadena, Cal. Foot-supporter. No. 936,155; Oct. 5; Sp. p. 1169; Gaz. vol. 147; p. 177.
- Passaro, G. G., Stamford, Conn. Eel-trap. No. 943,842; Dec. 21; Sp. p. 3888; Gaz. vol. 149; p. 677.
- Passmore, C. L., Clinton, Iowa. Shoe-stretcher. No. 921,152; May 11; Sp. p. 2150; Gaz. vol. 142; p. 378.
- Passmore, F. W., London, England. Preparation or regeneration of rubber or caoutchouc. No. 924,101; June 8; Sp. p. 2158; Gaz. vol. 143; p. 360.
- Pasternack, R. J. A. (See Schneider and Pasternack.)
- Pastoriza, J. J. (See Schwander, P. W., assignor.)
- Patch, R. E. (See Larson, A., assignor.)
- Patch, S. P. S., Buffalo, Wyo. Valve. No. 909,325; Jan. 12; Sp. p. 1823; Gaz. vol. 138; p. 327.
- Pate, J., Elwood, Kans. Hay-stacking apparatus. No. 914,178; Mar. 2; Sp. p. 1128; Gaz. vol. 140; p. 176.
- Patent-Industrie-Gesellschaft M. B. H. (See Degener, H., assignor.)
- Patent Ownership Company. (See Reed, R. H., assignor.)
- Patent Sales Company. (See Le Myre, J. E., assignor.)
- Paterson, A., Buffalo, N. Y. Rolling sheets. (Reissue.) No. 12,975; June 15; Sp. p. 4927; Gaz. vol. 143; p. 842.
- Paterson, D. S., Philadelphia, Pa. Packing. No. 936,658; Oct. 12; Sp. p. 2237; Gaz. vol. 147; p. 371.
- Paterson, H. C. *et al.* (See Schollenberger, E. M., assignor.)
- Paterson, J. and W., Fresno, Cal. Motor-pump. No. 916,774; Mar. 30; Sp. p. 6291; Gaz. vol. 140; p. 1125.
- Paterson, J. G., assignor of one-half to B. F. Hulse, Los Angeles, Cal. Wrench. No. 924,269; June 8; Sp. p. 2571; Gaz. vol. 143; p. 418.
- Paterson, J. G., assignor of one-half to B. F. Hulse, Los Angeles, Cal. Plug-cock. No. 924,270; June 8; Sp. p. 2572; Gaz. vol. 143; p. 419.
- Paterson, T. A. (See Moxon and Paterson.)
- Paterson, W. (See Paterson, J. and W.)
- Paterson, W., Schenectady, N. Y. Automatic spring-tension feed. No. 926,508; June 29; Sp. p. 7109; Gaz. vol. 143; p. 1255.
- Paterson, W. C., Denver, Colo. Pulp-agitator. No. 940,612; Nov. 16; Sp. p. 4797; Gaz. vol. 148; p. 800.
- Paterson, W. C., Denver, Colo., assignor to Rapid Cyanide Extraction Company. Pulp-agitator. No. 923,571; June 1; Sp. p. 1021; Gaz. vol. 143; p. 157.
- Paterson, W. J. (See Nichol, J. C., assignor.)
- Pates, J. S., Homestead, Pa. Coal-tipple. No. 913,555; Feb. 23; Sp. p. 5241; Gaz. vol. 139; p. 929.
- Patitz, J. F. M., assignor to Allis-Chalmers Company, Milwaukee, Wis. Steam-turbine. No. 915,212; Mar. 16; Sp. p. 3235; Gaz. vol. 140; p. 565.
- Patitz, J. F. M., assignor to Allis-Chalmers Company, Milwaukee, Wis. Surface condenser. No. 919,208; Apr. 20; Sp. p. 4632; Gaz. vol. 141; p. 808.
- Patnode, A. A., Springfield, Mass. Head-rest. No. 919,374; Apr. 27; Sp. p. 5183; Gaz. vol. 141; p. 899.
- Patnode, J. C. (See Flynn and Patnode.)
- Patnode, W. J., Providence, R. I. Fuse-mounting for electric cut-outs. No. 937,326; Oct. 19; Sp. p. 3584; Gaz. vol. 147; p. 620.
- Paton, W., Glasgow, Scotland. Barrow. No. 924,822; June 15; Sp. p. 3710; Gaz. vol. 143; p. 636.
- Patrick, C. W., assignor to M. A. Dickison, Phoenix, Ariz. Ter. Brush. No. 919,756; Apr. 27; Sp. p. 5982; Gaz. vol. 141; p. 1028.
- Patrick, E. K. (See Berkshire, McConville, and Patrick.)
- Patrick, G. E., assignor to Patrick Train Controlling Corporation, Salem, Va. Train-despatcher's signaling and controlling system. No. 933,662; Sept. 7; Sp. p. 1418; Gaz. vol. 146; p. 213.
- Patrick, J. M., Los Angeles, Cal. Wind-deflector for automobiles. No. 940,270; Nov. 16; Sp. p. 4022; Gaz. vol. 148; p. 685.
- Patrick Train Controlling Corporation. (See Patrick, G. E., assignor.)
- Patsch, I. C., Houston, Pa. Horseshoe. No. 939,440; Nov. 9; Sp. p. 2214; Gaz. vol. 148; p. 368.
- Pattberg, G., New York, N. Y. Apparatus for automatically throwing out the resistance in charging storage batteries. No. 921,447; May 11; Sp. p. 2786; Gaz. vol. 142; p. 479.
- Patten, F. O., Norwalk, Iowa. Vehicle-wheel retainer. No. 937,171; Oct. 19; Sp. p. 3269; Gaz. vol. 147; p. 570.
- Patten, J. (See Patten, W., assignor.)
- Patten, J., Baltimore, Md. Feed-water purifier. No. 918,586; Apr. 20; Sp. p. 3314; Gaz. vol. 141; p. 603.
- Patten, W., assignor of one-half to J. Patten, New York, N. Y. Pump. No. 921,883; May 18; Sp. p. 3690; Gaz. vol. 142; p. 651.
- Patterson, A. C. (See Patterson, G. L., assignor.)
- Patterson, A. C. (See Patterson and Farrell, assignors.)
- Patterson, A. C. (See Patterson and Hopper, assignors.)
- Patterson-Allen Engineering Company. (See Patterson, F. M., assignor.)
- Patterson, B. G., Addington, Okla. Riddle for root-extractors. No. 934,345; Sept. 14; Sp. p. 2777; Gaz. vol. 146; p. 462.
- Patterson, C. B., Philadelphia, Pa. Skirt-supporter. No. 937,852; Oct. 26; Sp. p. 4699; Gaz. vol. 147; p. 813.
- Patterson, C. F., New York, N. Y. Supervisory signal system. No. 931,704; Aug. 17; Sp. p. 4388; Gaz. vol. 145; p. 746.
- Patterson, C. H. (See Musgrove, J. A., Jr., assignor.)
- Patterson, C. H., Walsenburg, Colo. Calf-muzzle. No. 909,212; Jan. 12; Sp. p. 1609; Gaz. vol. 138; p. 289.
- Patterson, C. L., assignor of one-half to I. A. Jones, Chicago, Ill. Holder for flowers, candles, &c. No. 928,213; July 13; Sp. p. 3123; Gaz. vol. 144; p. 532.
- Patterson, C. W. (See Williams and Patterson.)
- Patterson, D. W., Philadelphia, Pa. Feeding device for water-purifying apparatus. No. 940,402; Nov. 16; Sp. p. 4368; Gaz. vol. 148; p. 731.
- Patterson, D. W., assignor of one-third to J. Robinson and one-third to L. Hughes, Helena, Mont. Automatic gate-operating mechanism. No. 914,505; Mar. 9; Sp. p. 1783; Gaz. vol. 140; p. 306.
- Patterson, E. C., Moore, Okla. Combination measuring implement. No. 912,607; Feb. 16; Sp. p. 3280; Gaz. vol. 139; p. 588.
- Patterson, E. F., Griffin, and J. T. Patterson, Milner, Ga. Combined seed-planter and fertilizer-distributor. No. 942,792; Dec. 7; Sp. p. 1563; Gaz. vol. 149; p. 257.
- Patterson, E. F., *et al.* (See Anderson, J., assignor.)
- Patterson, F. M. (See Rizer, F. W., assignor.)
- Patterson, F. M., Philadelphia, Pa., assignor to Patterson-Allen Engineering Company. Valve. No. 937,088; Oct. 19; Sp. p. 3083; Gaz. vol. 147; p. 542.
- Patterson, G. L., *et al.* (See Zieme, C. H., assignor.)
- Patterson, G. L., assignor to A. C. Patterson, New York, N. Y. Electric bell. No. 910,412; Jan. 19; Sp. p. 4052; Gaz. vol. 138; p. 726.



*Alphabetical list of patentees—Continued.*

- Patterson, G. L., assignor to A. C. Patterson, New York, N. Y. Electric-battery holder and battery. No. 911,522; Feb. 2; Sp. p. 951; Gaz. vol. 139; p. 166.
- Patterson, G. L., assignor to A. C. Patterson, New York, N. Y. Battery and holder therefor. No. 924,573; June 8; Sp. p. 3170; Gaz. vol. 143; p. 518.
- Patterson, G. L., assignor to A. C. Patterson, New York, N. Y. Battery and holder. No. 924,574; June 8; Sp. p. 3171; Gaz. vol. 143; p. 518.
- Patterson, G. L., assignor to A. C. Patterson, New York, N. Y. Battery-box terminal connection. No. 924,576; June 8; Sp. p. 3176; Gaz. vol. 143; p. 519.
- Patterson, G. L., assignor to A. C. Patterson, New York, N. Y. Battery box and holder. No. 924,577; June 8; Sp. p. 3177; Gaz. vol. 143; p. 519.
- Patterson, G. L., and J. B. Farrell, assignors to A. C. Patterson, New York, N. Y. Electric-lamp receptacle. No. 909,326; Jan. 12; Sp. p. 1824; Gaz. vol. 138; p. 327.
- Patterson, G. L., New York, and G. H. Hopper, Brooklyn, assignors to A. C. Patterson, New York, N. Y. Battery. No. 924,575; June 8; Sp. p. 3173; Gaz. vol. 143; p. 518.
- Patterson, G. L., T. L. Mornes, and C. H. Zieme, New Castle, Pa. Galvanizing. No. 928,398; July 20; Sp. p. 3539; Gaz. vol. 144; p. 625.
- Patterson, H. P. (See Rowley, T., assignor.)
- Patterson, I. D., Dayton, Ohio. Carousal. No. 921,153; May 11; Sp. p. 2152; Gaz. vol. 142; p. 379.
- Patterson, J. B., Philadelphia, Pa. Hammock-stand. No. 933,919; Sept. 14; Sp. p. 1956; Gaz. vol. 146; p. 322.
- Patterson, J. B., Philadelphia, Pa. Hammock-stand. No. 933,920; Sept. 14; Sp. p. 1957; Gaz. vol. 146; p. 322.
- Patterson, J. B., Philadelphia, Pa. Hammock-stand. No. 933,921; Sept. 14; Sp. p. 1958; Gaz. vol. 146; p. 322.
- Patterson, J. B., Philadelphia, Pa. Hammock-stand. No. 940,939; Nov. 23; Sp. p. 5521; Gaz. vol. 148; p. 934.
- Patterson, J. E., Gainesville, Tex. Gas-engine. No. 913,156; Feb. 23; Sp. p. 4395; Gaz. vol. 139; p. 794.
- Patterson, J. L., Roanoke Rapids, N. C. Fabric. No. 928,535; July 20; Sp. p. 3816; Gaz. vol. 144; p. 669.
- Patterson, J. L., Roanoke Rapids, N. C. Means for protecting roll-bearings of textile machinery. No. 940,551; Nov. 16; Sp. p. 4686; Gaz. vol. 148; p. 780.
- Patterson, J. M., La Fayette, Ga. Door-stop. No. 914,179; Mar. 2; Sp. p. 1129; Gaz. vol. 140; p. 176.
- Patterson, J. M., La Fayette, Ga. Window-shade. No. 914,180; Mar. 2; Sp. p. 1131; Gaz. vol. 140; p. 177.
- Patterson, J. T. (See Patterson, E. P. and J. T.)
- Patterson, M. E. R. (See Reeder, C. V., assignor.)
- Patterson Manufacturing Company. (See Langer, W. B., assignor.)
- Patterson, O. Q. (See Evans and Patterson.)
- Patterson, P. C., and J. J. Boax, McKeesport, Pa. Tumbling apparatus. No. 928,399; July 20; Sp. p. 3540; Gaz. vol. 144; p. 626.
- Patterson, R. B., Washington, D. C. Circuit-controlling device. No. 918,086; Apr. 13; Sp. p. 2292; Gaz. vol. 141; p. 411.
- Patterson, R. B., Sr., East Chicago, Ind., assignor of one-half to J. M. Weber, Chicago, Ill. Ash-pan. No. 940,403; Nov. 16; Sp. p. 4371; Gaz. vol. 148; p. 731.
- Patterson, T. S., Rosemont, Pa. Delivery-receptacle for powdered materials. No. 909,657; Jan. 12; Sp. p. 2470; Gaz. vol. 138; p. 438.
- Patterson, T. S., Rosemont, assignor to Oil and Waste Saving Machine Company, Philadelphia, Pa. Turbine-motor. No. 912,608; Feb. 16; Sp. p. 3281; Gaz. vol. 139; p. 588.
- Patterson, T. S., Rosemont, assignor to Oil and Waste Saving Machine Company, Philadelphia, Pa. Bearing for centrifugal separators. No. 914,181; Mar. 2; Sp. p. 1133; Gaz. vol. 140; p. 177.
- Patterson, T. S., Rosemont, assignor to Oil and Waste Saving Machine Company, Philadelphia, Pa. Centrifugal separator. No. 926,596; June 29; Sp. p. 2280; Gaz. vol. 143; p. 1285.
- Patterson, W. A., assignor to Cotton Harvester Company, St. Louis, Mo. Cotton-separator. No. 939,303; Nov. 9; Sp. p. 1888; Gaz. vol. 148; p. 322.
- Patterson, W. H., Canton, Ohio. Cue-clamp. No. 934,691; Sept. 21; Sp. p. 3461; Gaz. vol. 146; p. 603.
- Patterson, W. J., Springdale, Pa., and A. B. Neumann, Chicago, Ill. Casting plant. No. 912,406; Feb. 16; Sp. p. 2859; Gaz. vol. 139; p. 519.
- Patterson, W. L., assignor, by mesne assignments, to Bausch & Lomb Optical Co., Rochester, N. Y. Microtome. No. 930,686; Aug. 10; Sp. p. 2173; Gaz. vol. 145; p. 381.
- Patteson, C. H. (See Musgrove, J. A., Jr., assignor.)
- Patteson, F. M., Philadelphia, Pa. Stay-bolt for steam-boilers. No. 918,193; Apr. 13; Sp. p. 2493; Gaz. vol. 141; p. 446.
- Pattillo, G. A., Cartersville, Ga. Nut-lock. No. 943,887; Dec. 21; Sp. p. 3982; Gaz. vol. 149; p. 691.
- Pattinson, J. R., Stafford, Kans. Dump-distributor for dump grain-bins. No. 922,944; May 25; Sp. p. 5886; Gaz. vol. 142; p. 1025.
- Pattison, B. S. (See Carrick, J. T., assignor.)
- Patton, A. A., San Pablo, Cal. Pipe-wrench. No. 936,804; Oct. 12; Sp. p. 2516; Gaz. vol. 147; p. 420.
- Patton, A. S. (See Dodge and Patton.)
- Patton, C. A. (See Patton, O. C., assignor.)
- Patton, C. W., et al. (See Washington, D. E., assignor.)
- Patton, J. B. (See Engberg, E. O., assignor.)
- Patton, J. L., Cincinnati, Ohio. Game-table. No. 931,470; Aug. 17; Sp. p. 3899; Gaz. vol. 145; p. 673.
- Patton, J. W. (See Hammond, J. L., assignor.)
- Patton, J. W. (See Hammond, J. L., assignor.) (Reissue.)
- Patton, O. C., Pittsburg, assignor of one-half to C. A. Patton, Pittsburg, Kans. Window-shade and curtain-fixture. No. 930,221; Aug. 3; Sp. p. 1229; Gaz. vol. 145; p. 202.
- Patty, J. W., Lehigh, Okla. Combined planter and fertilizer-distributor. No. 918,361; Apr. 13; Sp. p. 2833; Gaz. vol. 141; p. 502.
- Patzlaff, A. A., Chicago, Ill. Box-strap and bale-tie. No. 909,658; Jan. 12; Sp. p. 2472; Gaz. vol. 138; p. 438.
- Pauck, G. E. (See Walton and Pauck.)
- Paucksch, O., Berlin, Germany. Dedicating apparatus. No. 924,271; June 8; Sp. p. 2573; Gaz. vol. 143; p. 419.
- Paul, A., New York, assignor of one-half to A. E. Latham, Brooklyn, N. Y. Valve. No. 927,161; July 6; Sp. p. 957; Gaz. vol. 144; p. 155.
- Paul, A. B., et al. (See Fanning, F., assignor.)
- Paul, A. G., Boston, Mass. Heating system. No. 916,364; Mar. 23; Sp. p. 5473; Gaz. vol. 140; p. 971.
- Paul, A. G., Boston, Mass. Heating system. No. 937,689; Oct. 19; Sp. p. 4340; Gaz. vol. 147; p. 739.
- Paul, B. H. and M., Los Angeles, Cal. Machine for seeding fruit. No. 943,955; Dec. 21; Sp. p. 4131; Gaz. vol. 149; p. 716.
- Paul, C. (See Maloney, Harvey, and Paul.)
- Paul, C. V., Sheridan, Ore. Draft attachment for vehicles. No. 932,639; Aug. 31; Sp. p. 6383; Gaz. vol. 145; p. 1101.
- Paul Dickinson (Incorporated). (See Caswell, F. K., assignor.)
- Paul, J. E., and J. M. Stewart, assignors of one-third to G. W. Dolezal, Denver, Colo. Thermo-electric alarm. No. 909,818; Jan. 12; Sp. p. 2784; Gaz. vol. 138; p. 490.
- Paul, J. S., Chicago, Ill. Pleasure-railway. No. 913,046; Feb. 23; Sp. p. 4184; Gaz. vol. 139; p. 757.
- Paul, J. T. H., assignor to E. Goldman & Co., Inc., Chicago, Ill. Pasteurizing apparatus. No. 913,910; Mar. 2; Sp. p. 519; Gaz. vol. 140; p. 83.
- Paul, J. T. H., assignor to E. Goldman & Co., Inc., Chicago, Ill. Filter. (Reissue.) No. 13,053; Dec. 7; Sp. p. 1788; Gaz. vol. 149; p. 289.
- Paul, M. (See Paul, B. H. and M.)
- Paul Meyer Aktien-Gesellschaft. (See Hoffmann, M., assignor.)
- Paul, R., Berlin, Germany. Manufacturing baking-powder. No. 913,762; Mar. 2; Sp. p. 180; Gaz. vol. 140; p. 30.
- Paul, W. A., Peru, assignor to David Bradley Manufacturing Company, Bradley, Ill. Evener. No. 937,853; Oct. 26; Sp. p. 4701; Gaz. vol. 147; p. 813.
- Paul, W. C., New York, assignor to C. H. Conner, Rye, N. Y. Hydrocarbon-mixer. No. 937,854; Oct. 26; Sp. p. 4708; Gaz. vol. 147; p. 814.
- Paul, W. H., Birkenhead, England. Treating grain for milling. No. 929,481; July 27; Sp. p. 5753; Gaz. vol. 144; p. 1010.
- Paul, W. J., Cincinnati, Ohio. Dish-washing machine. No. 942,926; Dec. 14; Sp. p. 1915; Gaz. vol. 149; p. 334.
- Paul, W. L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Cultivator. No. 911,067; Feb. 2; Sp. p. 88; Gaz. vol. 139; p. 16.
- Paul, W. L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow structure. No. 920,990; May 11; Sp. p. 1825; Gaz. vol. 142; p. 324.
- Paul, W. L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Sulky-plow. No. 925,593; June 22; Sp. p. 5223; Gaz. vol. 143; p. 919.
- Paul, W. L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Agricultural implement. No. 928,690; July 20; Sp. p. 4136; Gaz. vol. 144; p. 720.
- Paul, W. L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Coupling for the beams of cultivators or gang-plows. No. 943,704; Dec. 21; Sp. p. 3615; Gaz. vol. 149; p. 629.
- Paul, W. L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Seeding-machine. No. 944,578; Dec. 28; Sp. p. 5502; Gaz. vol. 149; p. 955.
- Paul, W. L., and R. J. Altgelt, assignors to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 914,506; Mar. 9; Sp. p. 1785; Gaz. vol. 140; p. 307.
- Paul, Z., Croton, Ontario, Canada. Throttle-valve. No. 942,345; Dec. 7; Sp. p. 668; Gaz. vol. 149; p. 107.

*Alphabetical list of patentees—Continued.*

- Paulard, S., Paris, and N. Grillet, St. Fons, near Lyon, assignors to Societe Chimique des Usines du Rhone, Paris, France. Closure for vessels charged with volatile liquids or liquids under pressure. No. 924,496; June 8; Sp. p. 3017; Gaz. vol. 143; p. 492.
- Pauley, J. I., Anchor, assignor of one-half to J. Duty, Rector, W. Va. Saw-handle. No. 935,810; Oct. 5; Sp. p. 455; Gaz. vol. 147; p. 64.
- Pauling, H., assignor to Salpetersäure-Industrie-Gesellschaft, Ges. M. B. H., Gelsenkirchen, Germany. Apparatus for producing electric discharges. No. 939,441; Nov. 9; Sp. p. 2215; Gaz. vol. 148; p. 368.
- Pauling, H., assignor to Salpetersäure-Industrie-Gesellschaft, G. M. B. H., Gelsenkirchen, Germany. Production of voltaic high-current arcs. No. 939,442; Nov. 9; Sp. p. 2216; Gaz. vol. 148; p. 368.
- Pauli, A. W., and J. A. McGinnis, assignors to Wheeling Stamping Company, Wheeling, W. Va. Lamp-burner. No. 931,642; Aug. 17; Sp. p. 4216; Gaz. vol. 145; p. 723.
- Paulsen, A. F., assignor to M. M. Paulsen, New York, N. Y. Horseshoe. No. 914,971; Mar. 9; Sp. p. 2724; Gaz. vol. 140; p. 459.
- Paulsen, C., Bradley, S. D. Ironing-board. No. 937,639; Oct. 19; Sp. p. 4251; Gaz. vol. 147; p. 725.
- Paulsen, C. P., Bradley, S. D. Auxiliary implement-handle. No. 923,994; June 8; Sp. p. 1973; Gaz. vol. 143; p. 327.
- Paulsen, M. M. (See Paulsen, A. F., assignor.)
- Paulson, A. O., Aneta, N. D. Badge or ribbon fastener. No. 920,639; May 4; Sp. p. 1103; Gaz. vol. 142; p. 179.
- Paulson, C. E., Kearny, N. J. Newel-post for stairs or other support. No. 912,260; Feb. 9; Sp. p. 2507; Gaz. vol. 139; p. 431.
- Paulson Grain Door Co. (See Paulson, M., assignor.)
- Paulson, J. P. (See Flach, Becker, and Paulson.)
- Paulson, M., assignor to Paulson Grain Door Co., Omaha, Nebr. Grain-door for railway-cars. No. 909,111; Jan. 5; Sp. p. 1404; Gaz. vol. 138; p. 223.
- Paulson, O. A., River Falls, Wis. Collapsible box. No. 932,806; Aug. 31; Sp. p. 6737; Gaz. vol. 145; p. 1155.
- Paulson, S. C., Minneapolis, Minn. Wagon-pole. No. 932,807; Aug. 31; Sp. p. 6739; Gaz. vol. 145; p. 1156.
- Paulus, C. H., Manitowoc, Wis. Match-safe. No. 934,459; Sept. 21; Sp. p. 3012; Gaz. vol. 146; p. 625.
- Paulus, G. H., Steubenville, Ohio. Adjustable bit. No. 925,500; June 22; Sp. p. 5032; Gaz. vol. 143; p. 888.
- Pauly, P. J., Jr., St. Louis, Mo. Door-lock. No. 918,693; Apr. 20; Sp. p. 3612; Gaz. vol. 141; p. 640.
- Pauly, W. A. (See Pilkington and Pauly.)
- Pausch, L. C., *et al.* (See Hofmeister, R.)
- Pavey, V. F., Leesburg, Ohio. Corn-planter. No. 925,375; June 15; Sp. p. 4783; Gaz. vol. 143; p. 817.
- Pavey, V. F., Leesburg, Ohio. Corn-planter. No. 939,159; Nov. 2; Sp. p. 1519; Gaz. vol. 148; p. 246.
- Pavia, L., Allentown, Pa. Shuttle. No. 940,271; Nov. 16; Sp. p. 4023; Gaz. vol. 148; p. 685.
- Pavlik, G., Boston, Mass. Brush. No. 927,870; July 13; Sp. p. 2435; Gaz. vol. 144; p. 416.
- Pawling & Harnischfeger. (See Weickel and Frentzel, assignors.)
- Pawlowski, J., assignor to L. Herzog, Cincinnati, Ohio. Race-course barrier and starting device. No. 931,956; Aug. 24; Sp. p. 4962; Gaz. vol. 145; p. 850.
- Paxton, B. F., Valentine, Nebr. Weeding device. No. 909,018; Jan. 5; Sp. p. 1204; Gaz. vol. 138; p. 192.
- Paxton, F. J., Redlands, Cal. Vehicle-gear. No. 927,276; July 6; Sp. p. 1179; Gaz. vol. 144; p. 193.
- Pay-As-You-Enter Car Corporation. (See Pickles, C. K., assignor.)
- Pay-Within Car Company. (See Englund, A. H., assignor.)
- Pay-Within-Car Company. (See Paden, L. E., assignor.)
- Paye Coin Holder Co. (See Bell, E. S., assignor.)
- Payment, N., Manchester, N. H. Spinning-ring. No. 937,089; Oct. 19; Sp. p. 3086; Gaz. vol. 147; p. 542.
- Payne, C. N., Titusville, assignor to Modern Tool Company, Erie, Pa. Speed-changing device. No. 929,977; Aug. 3; Sp. p. 748; Gaz. vol. 145; p. 120.
- Payne, D. F., Corpus Christi, Tex. Crate. No. 936,028; Oct. 5; Sp. p. 904; Gaz. vol. 147; p. 136.
- Payne, E. T., and G. F. Cochran, Albuquerque, N. Mex. Ter. Railroad-tie. No. 917,118; Apr. 6; Sp. p. 313; Gaz. vol. 141; p. 57.
- Payne, F. E., and M. M. House, Indianapolis, Ind. Extension-arm for chairs. No. 939,623; Nov. 9; Sp. p. 2605; Gaz. vol. 148; p. 429.
- Payne, G., and J. Ross, Orillia, Ontario, Canada. Water-hydrant. No. 909,327; Jan. 12; Sp. p. 1825; Gaz. vol. 138; p. 327.
- Payne, J. S., Mulvane, Kans. Automatic signal system. No. 936,255; Oct. 5; Sp. p. 1345; Gaz. vol. 147; p. 207.
- Payne, R. A. E., *et al.* (See Bayliss, Hodgkinson, Harcastle, Coote, and Payne.)
- Payne, S. R., *et al.* (See Williams, H. C., assignor.)
- Payne, W. D., Washington, D. C. Emergency-brake. No. 925,020; June 15; Sp. p. 4127; Gaz. vol. 143; p. 702.
- Payne, W. H., and N. M. Rice, Dalhart, Tex. Crude-oil burner. No. 944,633; Dec. 28; Sp. p. 5613; Gaz. vol. 149; p. 974.
- Payne, W. R., Uniontown, W. Va. Pruning implement. No. 917,482; Apr. 6; Sp. p. 1030; Gaz. vol. 141; p. 179.
- Payne, W. W. (See Thrasher and Payne.)
- Paynter, G. J., Philadelphia, Pa. Pneumatic tire. No. 912,725; Feb. 16; Sp. p. 3556; Gaz. vol. 139; p. 620.
- Peabody, A. P., Camp Verde, Ariz. Brake for vehicles. No. 934,752; Sept. 21; Sp. p. 3569; Gaz. vol. 146; p. 622.
- Peabody, E. H., New York, N. Y. Automatic gas-analyzing apparatus. No. 944,274; Dec. 28; Sp. p. 4794; Gaz. vol. 149; p. 848.
- Peabody Leather Machinery Company. (See Ramsdell, L. O., assignor.)
- Peach, J. A., Gloversville, N. Y., assignor to Consolidated Sporting Goods Manufacturing Company. Catching-glove. (Reissue.) No. 12,996; July 27; Sp. p. 6090; Gaz. vol. 144; p. 1065.
- Peach, W. M., Bellevue, assignor to Pressed Steel Car Company, Pittsburg, Pa. Sash-lock for car-windows. No. 917,119; Apr. 6; Sp. p. 314; Gaz. vol. 141; p. 57.
- Peache, J. C., and M. H. Robinson, assignors to Willans & Robinson, Limited, Rugby, England. Internal-combustion engine. No. 921,649; May 11; Sp. p. 3205; Gaz. vol. 142; p. 547.
- Peacock, E. L. (See Lake and Peacock.)
- Peacock, J. L. (See Dixon, H., assignor.)
- Peacock, R. H., Shepherd's Bush, England. Apparatus for the manufacture of sheet-metal cans. No. 930,414; Aug. 10; Sp. p. 1593; Gaz. vol. 145; p. 289.
- Peacock, S., Chicago, Ill., assignor to American Cyanamid Company, New York, N. Y. Making cement and other products. No. 939,078; Nov. 2; Sp. p. 1337; Gaz. vol. 148; p. 217.
- Peak W. B., Pinhook Landing, Tenn. Obstetrical bed. No. 943,453; Dec. 14; Sp. p. 3053; Gaz. vol. 149; p. 513.
- Pearce, A. L., Philadelphia, Pa. Dish-washing machine. No. 934,346; Sept. 14; Sp. p. 2778; Gaz. vol. 146; p. 462.
- Pearce, C. (See Conger and Pearce.)
- Pearce, E. J., New Brighton, England. Mechanical toy. No. 943,096; Dec. 14; Sp. p. 2313; Gaz. vol. 149; p. 392.
- Pearce, E. W., East Milton, Mass. Jar-closure. No. 935,321; Sept. 28; Sp. p. 4719; Gaz. vol. 146; p. 837.
- Pearce, H., Stanstead Abbots, assignor to British Automatic Aerators Limited, London, England. Aerating-machine. No. 922,183; May 18; Sp. p. 4289; Gaz. vol. 142; p. 748.
- Pearce, H., Broadheath, Altrincham, assignor to Linotype and Machinery Limited, London, England. Keyboard mechanism of typographic machines. No. 941,383; Nov. 30; Sp. p. 6482; Gaz. vol. 148; p. 1103.
- Pearce, H., and J. E. Billington, Broadheath, England. Galley mechanism for typographical composing-machines. No. 935,543; Sept. 28; Sp. p. 5184; Gaz. vol. 146; p. 909.
- Pearce, H., and J. E. Billington, Broadheath, England. Typographical composing and casting machine. No. 941,384; Nov. 30; Sp. p. 6483; Gaz. vol. 148; p. 1103.
- Pearce, J. C., Findlay, assignor of one-half to J. J. Harsh, Windsor, Ill. Railway-tie. No. 944,815; Dec. 28; Sp. p. 6011; Gaz. vol. 149; p. 1035.
- Pearce, R. M., assignor of one-half to F. W. Young, Rock Island, Ill. Combined skid and truck. No. 922,029; May 18; Sp. p. 4000; Gaz. vol. 142; p. 699.
- Pearl, E. T., Passaic, N. J. Syringe-nozzle. No. 925,718; June 22; Sp. p. 5497; Gaz. vol. 143; p. 959.
- Pearl, E. T., Passaic, N. J. Syringe. No. 926,960; July 6; Sp. p. 531; Gaz. vol. 144; p. 87.
- Pearl Laundry Machinery Company. (See Taylor, T. L., assignor.)
- Pearlman, E. G. and M. M., Philadelphia, Pa. Recovering zinc compounds and ammonia. No. 919,375; Apr. 27; Sp. p. 5185; Gaz. vol. 141; p. 899.
- Pearlman, E. G. and M. M., Philadelphia, Pa. Apparatus for recovering zinc compounds and ammonia. No. 919,376; Apr. 27; Sp. p. 5187; Gaz. vol. 141; p. 899.
- Pearlman, M. M. (See Pearlman, E. G. and M. M.)
- Pearn, F. (See Pearn, W. A. and F.)
- Pearn, W. A. and F., West Gorton, Manchester, England. Machine for milling, facing, and other metal-cutting operations. No. 941,269; Nov. 23; Sp. p. 6230; Gaz. vol. 148; p. 1044.
- Pearne, W. S. (See Cook, W. F., assignor.)
- Pearsall, A. W., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 926,823; July 6; Sp. p. 245; Gaz. vol. 144; p. 39.
- Pearsall, A. W., Lowell, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Carrier for pneumatic-despatch-tube apparatus. No. 926,824; July 6; Sp. p. 248; Gaz. vol. 144; p. 40.



*Alphabetical list of patentees—Continued.*

- Pearsall, C. W., assignor to P. A. Pearsall, Binghamton, N. Y. Water-closet valve for cars. No. 922,441; May 18; Sp. p. 4818; Gaz. vol. 142; p. 833.
- Pearsall, P. A. (See Pearsall, C. W., assignor.)
- Pearson, A. C., Lee, England. Apparatus for treating fish, &c. No. 937,172; Oct. 19; Sp. p. 3271; Gaz. vol. 147; p. 570.
- Pearson, C., Chicago, Ill., assignor to International Harvester Company. Hay-rake. No. 913,971; Mar. 2; Sp. p. 662; Gaz. vol. 140; p. 105.
- Pearson, C., Chicago, Ill., assignor to International Harvester Company. Hay-rake. No. 930,314; Aug. 3; Sp. p. 1393; Gaz. vol. 145; p. 231.
- Pearson, C. C. (See Werner, E., assignor.)
- Pearson, C. H., Brookline, Mass. Taximeter. No. 936,559; Oct. 12; Sp. p. 2030; Gaz. vol. 147; p. 334.
- Pearson, C. O., New York, and A. Sundh, Yonkers, N. Y. Electromagnetic accelerator. No. 944,497; Dec. 28; Sp. p. 5308; Gaz. vol. 149; p. 926.
- Pearson, E. (See Marsden and Pearson.)
- Pearson, E. I., assignor to H. J. Parks, New York, N. Y. Oilier for elevator guide-rails. No. 915,794; Mar. 23; Sp. p. 4422; Gaz. vol. 140; p. 785.
- Pearson, F., assignor of one-half to C. H. Werden, Mason, Wis. Lumber-loading mechanism. No. 937,954; Oct. 26; Sp. p. 4904; Gaz. vol. 147; p. 847.
- Pearson, H., Springfield, Mass., assignor, by mesne assignments, to American Palace Car Company, Portland, Me. Railway-sleeping-car and other berth section. No. 924,823; June 15; Sp. p. 3711; Gaz. vol. 143; p. 636.
- Pearson, H., Springfield, Mass., assignor to Wason Manufacturing Company. Buffer-plate for railway-cars. No. 933,721; Sept. 7; Sp. p. 1556; Gaz. vol. 146; p. 236.
- Pearson, H. P., Ealing, London, England. Manufacture of hats of straw, palm-leaf, and the like. No. 927,674; July 13; Sp. p. 2028; Gaz. vol. 144; p. 353.
- Pearson, H. W., New York, N. Y. Advertising device for paints, calcimines, and other wall-coverings. No. 926,436; June 29; Sp. p. 6994; Gaz. vol. 143; p. 1232.
- Pearson, J., Denton, Nebr. Sound-modifier for phonographs, &c. No. 929,482; July 27; Sp. p. 5754; Gaz. vol. 144; p. 1010.
- Pearson, J., Raymond, Nebr. Detergent. No. 938,332; Oct. 26; Sp. p. 5729; Gaz. vol. 147; p. 976.
- Pearson, J., Chicago, Ill. Dump-car. No. 940,187; Nov. 16; Sp. p. 3858; Gaz. vol. 148; p. 655.
- Pearson, J., Chicago, Ill. Car-roof. No. 940,355; Nov. 16; Sp. p. 4234; Gaz. vol. 148; p. 714.
- Pearson, J. B., Stoneham, Mass., and E. W. Pierce, Olean, N. Y. Light-distributing device. No. 909,447; Jan. 12; Sp. p. 2048; Gaz. vol. 138; p. 364.
- Pearson, J. H., assignor to M. A. Cooper, Sr., Westplains, Mo. Washing-machine. No. 924,578; June 8; Sp. p. 3179; Gaz. vol. 143; p. 519.
- Pearson, J. H., assignor of one-half to W. S. Morgan, Westplains, Mo. Door. No. 941,094; Nov. 23; Sp. p. 5842; Gaz. vol. 148; p. 986.
- Pearson, M. H., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Punching and eyeletting machine. No. 918,694; Apr. 20; Sp. p. 3615; Gaz. vol. 141; p. 641.
- Pearson, N. (See Anderson, I., assignor.)
- Pearson, O., Worcester, Mass. Valve for engines. No. 942,587; Dec. 7; Sp. p. 1159; Gaz. vol. 149; p. 189.
- Pearson, O., and C. E. Lindquist, Chicago, Ill. Sash-lock. No. 941,038; Nov. 23; Sp. p. 5730; Gaz. vol. 148; p. 967.
- Pearson, R. A., Washington, D. C. Meat-labeling machine. No. 911,676; Feb. 9; Sp. p. 1303; Gaz. vol. 139; p. 243.
- Pearson, W. B., Chicago, Ill., and E. R. Seward; said Seward assignor to Hartford Machine Screw Company, Hartford, Conn. Actuating mechanism. No. 916,775; Mar. 30; Sp. p. 6293; Gaz. vol. 140; p. 1126.
- Pearson, W. B., Chicago, Ill., and E. R. Seward; said Seward assignor to Hartford Machine Screw Company, Hartford, Conn. Chuck. No. 939,304; Nov. 9; Sp. p. 1891; Gaz. vol. 148; p. 322.
- Peary, R. E., Eagle Island, Me. Coat. No. 936,805; Oct. 12; Sp. p. 2518; Gaz. vol. 147; p. 420.
- Pease, C., Salem, Mass. Boot or shoe. No. 933,848; Sept. 14; Sp. p. 1812; Gaz. vol. 146; p. 299.
- Pease, F. B., Rochester, N. Y. Fruit-packing device. No. 939,740; Nov. 9; Sp. p. 2856; Gaz. vol. 148; p. 471.
- Pease, G. E., Minneapolis, Minn. Attachment for type-writer cylinders. No. 930,415; Aug. 10; Sp. p. 1594; Gaz. vol. 145; p. 289.
- Pease, J. D., New York, N. Y. Pianissimo device. No. 919,632; Apr. 27; Sp. p. 5739; Gaz. vol. 141; p. 987.
- Pease, T. M., Cincinnati, Ohio. Truss-pad. No. 943,843; Dec. 21; Sp. p. 3890; Gaz. vol. 149; p. 677.
- Peaslee, C. E. (See Davis, M. O., assignor.)
- Peaslee, W. D., Whitefield, Me. Railway-track structure. No. 919,757; Apr. 27; Sp. p. 5984; Gaz. vol. 141; p. 1028.
- Peat Gas and Coal Company. (See Oligny, J. D., assignor.)
- Peat Gas and Coal Company *et al.* (See Augustin, L., assignor.)
- Peat, H. A. (See Peat, W. R., T., Jr., P., and H. A.)
- Peat, P. (See Peat, W. R., T., Jr., P., and H. A.)
- Peat, T., Jr. (See Peat, W. R., T., Jr., P., and H. A.)
- Peat, W. R., T., Jr., P., and H. A., Farnworth, near Bolton, England. Mechanism for tilting fire-bars. No. 920,640; May 4; Sp. p. 1104; Gaz. vol. 142; p. 179.
- Pecci, P. N., assignor of one-half to L. Lemieux, Paterson, N. J. Automatic block-signal for trolley systems. No. 926,437; June 29; Sp. p. 6995; Gaz. vol. 143; p. 1232.
- Peck Bros. & Co. (See Newton, W. G., assignor.)
- Peck, C. C., Rochester, N. Y. Automatic fan system of heating. No. 917,483; Apr. 6; Sp. p. 1031; Gaz. vol. 141; p. 180.
- Peck, C. C., Rochester, N. Y. Apparatus for hot-water heating systems. No. 918,901; Apr. 20; Sp. p. 4049; Gaz. vol. 141; p. 711.
- Peck, C. C., Rochester, N. Y. System of heating by aid of vacuum. No. 927,591; July 13; Sp. p. 1823; Gaz. vol. 144; p. 324.
- Peck, C. C., Rochester, N. Y. Automatic drainage-valve. No. 944,816; Dec. 28; Sp. p. 6012; Gaz. vol. 149; p. 1035.
- Peck, C. E., assignor to C. I. Yale Manufacturing Co., Yalesville, Conn. Making table-knives. No. 931,471; Aug. 17; Sp. p. 3901; Gaz. vol. 145; p. 673.
- Peck, C. F., Coney Island, N. Y. Amusement device. No. 922,184; May 18; Sp. p. 4296; Gaz. vol. 142; p. 749.
- Peck, C. W., Bristol, Conn. Machine for squaring ends of spiral springs. No. 919,758; Apr. 27; Sp. p. 5985; Gaz. vol. 141; p. 1029.
- Peck, E. S., Cleveland, Ohio. Percolator. No. 925,833; June 22; Sp. p. 5764; Gaz. vol. 143; p. 997.
- Peck, E. S., Cleveland, Ohio. Separator. No. 925,834; June 22; Sp. p. 5767; Gaz. vol. 143; p. 998.
- Peck, E. S., Cleveland, Ohio. Percolator. No. 925,835; June 22; Sp. p. 5768; Gaz. vol. 143; p. 998.
- Peck, E. W. (See Dunham and Peck.)
- Peck, E. W., *et al.* (See Wagniere, A., assignor.)
- Peck, G. W. (See Benjamin, E. A., assignor.)
- Peck, H. O., assignor to H. O. Peck Automobile Wheel Co., Portland, Ore. Vehicle-wheel. No. 943,563; Dec. 14; Sp. p. 3275; Gaz. vol. 149; p. 551.
- Peck, H. O., assignor to H. O. Peck Automobile Wheel Company, Portland, Ore. Vehicle-wheel. No. 925,021; June 15; Sp. p. 4129; Gaz. vol. 143; p. 703.
- Peck, H. O., assignor to H. O. Peck Automobile Wheel Company, Portland, Ore. Vehicle-wheel. No. 925,022; June 15; Sp. p. 4131; Gaz. vol. 143; p. 703.
- Peck, H. O., assignor to H. O. Peck Automobile Wheel Company, Portland, Ore. Spoke for vehicle-wheels. No. 934,566; Sept. 21; Sp. p. 3204; Gaz. vol. 146; p. 559.
- Peck, H. O., assignor to H. O. Peck Automobile Wheel Company, Portland, Ore. Vehicle-wheel. No. 943,564; Dec. 14; Sp. p. 3277; Gaz. vol. 149; p. 552.
- Peck, J. E., Syracuse, N. Y., assignor to Vulcan Foundry Company, Grand Rapids, Mich. Hot-water boiler. No. 922,442; May 18; Sp. p. 4819; Gaz. vol. 142; p. 833.
- Peck, J. S., Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Electrical equalizing system. No. 924,927; June 15; Sp. p. 3926; Gaz. vol. 143; p. 670.
- Peck, L., Bellevue, Mich., assignor of nine-twentieths to F. B. Strough and O. L. Humphrey, Honeoye Falls, N. Y. Preserving-receptacle. No. 916,190; Mar. 23; Sp. p. 5159; Gaz. vol. 140; p. 913.
- Peck, P. C. (See Ladoff, I., assignor.)
- Peck, P. F., Chicago, Ill. Centrifugal ore-separator. No. 917,120; Apr. 6; Sp. p. 315; Gaz. vol. 141; p. 58.
- Peck, P. F., Chicago, Ill. Centrifugal ore-separator. No. 917,121; Apr. 6; Sp. p. 322; Gaz. vol. 141; p. 58.
- Peck, P. F., Chicago, Ill. Centrifugal ore-separator. No. 917,122; Apr. 6; Sp. p. 329; Gaz. vol. 141; p. 59.
- Peck, P. F., Chicago, Ill. Centrifugal ore-separator. No. 917,123; Apr. 6; Sp. p. 334; Gaz. vol. 141; p. 59.
- Peck, S. C., and W. R. Hodgkinson, London, England. Production of alloys of copper, such as brass. No. 943,159; Dec. 14; Sp. p. 2437; Gaz. vol. 149; p. 414.
- Peck, W. A., Jersey City, N. J. Ratchet mechanism. No. 924,372; June 8; Sp. p. 2783; Gaz. vol. 143; p. 453.
- Peck, W. A., Jersey City, N. J. Tool-holder. No. 939,079; Nov. 2; Sp. p. 1339; Gaz. vol. 148; p. 218.
- Peck, Williamson Heating and Ventilating Company. (See Deering, F., assignor.)
- Peckham, C. M. (See Hill and Peckham.)
- Peckham, S. H., assignor to Hanks Gasolene Meter Co., New York, N. Y. Indicator for liquid-fuel tanks. No. 923,073; May 25; Sp. p. 6143; Gaz. vol. 142; p. 1066.

*Alphabetical list of patentees—Continued.*

- Peco, I. H., Los Angeles, Cal. Composition of matter for polishing and dressing floors. No. 910,569; Jan. 26; Sp. p. 4387; Gaz. vol. 138; p. 804.
- Pécot, A., Franklin, La. Petroleum-burner. No. 927,592; July 13; Sp. p. 1828; Gaz. vol. 144; p. 325.
- Pecoy, S., Cresco, Iowa. Work box and stand. No. 943,454; Dec. 14; Sp. p. 3056; Gaz. vol. 149; p. 513.
- Peddle, J. T., Westminster, London, England. Sight. No. 922,945; May 25; Sp. p. 5887; Gaz. vol. 142; p. 1025.
- Peddle, G. H. (See Hency, J., assignor.)
- Peden, F. M., Newark, Tex. Double-row stalk-cutter. No. 921,448; May 11; Sp. p. 2788; Gaz. vol. 142; p. 479.
- Peden, L. P., Belen, Miss. Gate-latch. No. 930,985; Aug. 10; Sp. p. 2826; Gaz. vol. 145; p. 478.
- Pedersen, F. W. (See Nelson, M., assignor.)
- Pedersen, H. N., and P. M. Christensen, Racine, Wis. Mail-bag-handling apparatus. No. 942,278; Dec. 7; Sp. p. 535; Gaz. vol. 149; p. 84.
- Pedersen, J. D., Jackson, Wyo. Firearm. No. 908,883; Jan. 5; Sp. p. 936; Gaz. vol. 138; p. 149.
- Pedersen, J. D., Jackson, Wyo. Combined firing-pin and ejector for firearms. No. 936,806; Oct. 12; Sp. p. 2519; Gaz. vol. 147; p. 420.
- Pedersen, J. D., Jackson, Wyo. Rifle-sight. No. 936,807; Oct. 12; Sp. p. 2520; Gaz. vol. 147; p. 421.
- Pedersen, L., Chicago, Ill. Bag-holder. No. 922,624; May 25; Sp. p. 5206; Gaz. vol. 142; p. 921.
- Pedersen, N. C. L., and H. C. Hansen, Saby, Denmark. Wire-lock. No. 913,157; Feb. 23; Sp. p. 4398; Gaz. vol. 139; p. 795.
- Pederson, C., and T. Simmons, Menomonie, Wis. Stump-puller. No. 916,191; Mar. 23; Sp. p. 5160; Gaz. vol. 140; p. 913.
- Pederson, P. T., Stamford, S. D. Cow-tie. No. 921,154; May 11; Sp. p. 2154; Gaz. vol. 142; p. 379.
- Pederson, R., Parkersburg, Iowa. Wagon-loading device. No. 915,881; Mar. 23; Sp. p. 4532; Gaz. vol. 140; p. 813.
- Pederson, R., Parkersburg, Iowa. Wagon-loading device. No. 935,052; Sept. 28; Sp. p. 4181; Gaz. vol. 146; p. 749.
- Pederson, R., Parkersburg, Iowa. Loading-fork. No. 935,544; Sept. 28; Sp. p. 5186; Gaz. vol. 146; p. 909.
- Pedigo, J. W., Chariton, Iowa. Lightning-arrester or line-disconnector. No. 919,069; Apr. 20; Sp. p. 4369; Gaz. vol. 141; p. 763.
- Pedigo, R. E., Chariton, Iowa. Attachment for telephones. No. 923,882; June 8; Sp. p. 1751; Gaz. vol. 143; p. 292.
- Pedlar, G. H., Oshawa, Ontario, Canada. Interlocking metallic shingle. No. 943,888; Dec. 21; Sp. p. 3983; Gaz. vol. 149; p. 692.
- Pédraza, I. (See Griffin and Tucker, assignors.)
- Péducassee, B., Lyon, France. Brake-shoe. No. 923,572; June 1; Sp. p. 1024; Gaz. vol. 143; p. 157.
- Peebler, W. M., Nelson, Nebr. Lock. No. 924,824; June 15; Sp. p. 3721; Gaz. vol. 143; p. 637.
- Peebles, D. D., and A. R. Thompson, San Jose, Cal. Sparking device. No. 917,651; Apr. 6; Sp. p. 1340; Gaz. vol. 141; p. 236.
- Peebles, R. B. (See Sargent and Peebles.)
- Peek, F. W., Jr., Schenectady, N. Y., assignor to General Electric Company. Distribution system. No. 919,633; Apr. 27; Sp. p. 5740; Gaz. vol. 141; p. 988.
- Peek, J. S., Kerrville, Tex. Mail-bag catcher. No. 909,659; Jan. 12; Sp. p. 2473; Gaz. vol. 138; p. 438.
- Peek, L. V. (See Greear and Mackenzie, assignors.)
- Peelle, C. M. (See Ludemann, C. F. W., assignor.)
- Peeples, R. P., Reagan, Tex. Combined stalk-cutter and plow. No. 929,873; Aug. 3; Sp. p. 532; Gaz. vol. 145; p. 85.
- Peerless Electric Company. (See Lipps, E. C., assignor.)
- Peerless Electric Company. (See McBerty, F. P., assignor.)
- Peerless Machinery Company. (See Glass, P. R., assignor.)
- Peerless Machinery Company. (See Lautenschlager, W. F., assignor.)
- Peerless Motor Car Company. (See Mooers, L. F., assignor.) (Reissue.)
- Peerless Motor Car Company. (See Schmidt, C., assignor.)
- Peerless Vending Machine Company. (See Stoltz, M., assignor.)
- Peffer, C. F. (See Mohan, J. B., assignor.)
- Peffer, H. C., East St. Louis, Ill. Target. No. 925,785; June 22; Sp. p. 5658; Gaz. vol. 143; p. 981.
- Peffer, H. C., East St. Louis, Ill., assignor to Aluminum Company of America, Pittsburg, Pa. Recovery of soda in the manufacture of alumina. No. 938,270; Oct. 26; Sp. p. 5536; Gaz. vol. 147; p. 955.
- Peffer, H. C., East St. Louis, Ill., assignor to Aluminum Company of America, Pittsburg, Pa. Removal of silica in the manufacture of alumina. No. 938,432; Oct. 26; Sp. p. 556; Gaz. vol. 147; p. 1010.
- Pegg, A. W., St. Thomas, N. D. Penholder. No. 925,719; June 22; Sp. p. 5498; Gaz. vol. 143; p. 959.
- Pegram, T. H. (See Mayhew, E. M., assignor.)
- Pehl, M. W., Bellevue, Pa. Combination skylight and ventilator. No. 913,556; Feb. 23; Sp. p. 5243; Gaz. vol. 139; p. 929.
- Pehrson, A. H., Centralpalatset, Stockholm, Sweden. Producing rods, tubes, wire, &c., direct from molten metal. No. 930,490; Aug. 10; Sp. p. 1742; Gaz. vol. 145; p. 314.
- Pelifer, J. R., Conyngham, Pa. Hoof-trimmer. No. 912,161; Feb. 9; Sp. p. 2309; Gaz. vol. 139; p. 400.
- Peightel, I. S., Cincinnati, Ohio. Baling-press. No. 932,316; Aug. 24; Sp. p. 5683; Gaz. vol. 145; p. 970.
- Pelleke, G., Chester, assignor of thirty one-hundredths to J. J. McLaughlin and twenty one-hundredths to C. Broich, Crum Lynne, Pa. Valve. No. 914,069; Mar. 2; Sp. p. 889; Gaz. vol. 140; p. 139.
- Pein, E. J. von, assignor to National Cash Register Company, Dayton, Ohio. Cash-register. No. 938,527; Nov. 2; Sp. p. 192; Gaz. vol. 148; p. 28.
- Pein, H., Jersey City, N. J., assignor to United Centadrink Manufacturing Company. Liquid-measuring apparatus. No. 921,654; May 11; Sp. p. 3215; Gaz. vol. 142; p. 549.
- Pein, H., Jersey City, N. J., assignor to United Centadrink Manufacturing Company. Coin-operated vending-machine. No. 921,655; May 11; Sp. p. 3217; Gaz. vol. 142; p. 550.
- Pein, H., Jersey City, N. J., assignor to Aerating Machine Company, New York, N. Y. Vending-machine. No. 924,928; June 15; Sp. p. 3929; Gaz. vol. 143; p. 671.
- Peirce, A. T., Dover, N. H. Filter. No. 910,719; Jan. 26; Sp. p. 4680; Gaz. vol. 138; p. 851.
- Peirce, C. J. (See Hocquard and Beach, assignors.)
- Peirce, C. L., Jr., Chicago, Ill., assignor, by mesne assignments, to W. G. Nagel Electric Company, Toledo, Ohio. Cable-hanger. No. 909,448; Jan. 12; Sp. p. 2052; Gaz. vol. 138; p. 365.
- Peirce, C. L., Jr., Chicago, Ill., assignor to W. G. Nagel Electric Company, Toledo, Ohio. Cable-hanger. No. 941,039; Nov. 23; Sp. p. 5733; Gaz. vol. 148; p. 968.
- Peirce, J. H., trustee. (See Gilmore, A. C., assignor.)
- Peirce, J. R., assignor to Royden Marble Machinery Company, New York, N. Y. Dividing marble slabs. No. 914,303; Mar. 2; Sp. p. 1379; Gaz. vol. 140; p. 214.
- Peirce, J. W., Cornish, Vt. Horse-blanket. No. 938,787; Nov. 2; Sp. p. 722; Gaz. vol. 148; p. 116.
- Peirce, T. O. (See Hess, H. K., assignor.)
- Peirce, W. H., Baltimore, Md. Metallurgical converter. No. 942,661; Dec. 7; Sp. p. 1309; Gaz. vol. 149; p. 215.
- Peirce, W. H., Baltimore, Md. Metallurgical converter. No. 942,973; Dec. 14; Sp. p. 2021; Gaz. vol. 149; p. 350.
- Peirce, W. H., Baltimore, Md. Metallurgical converter. No. 944,905; Dec. 28; Sp. p. 6196; Gaz. vol. 149; p. 1065.
- Peirce, W. H., and E. A. C. Smith, Baltimore, Md. Method of and converter vessel for bessemerizing copper matte. No. 942,346; Dec. 7; Sp. p. 669; Gaz. vol. 149; p. 107.
- Peirson, E. V., Newark, N. Y. Commercial package. No. 917,124; Apr. 6; Sp. p. 340; Gaz. vol. 141; p. 60.
- Peiseler, G., Charlottenburg, Germany. Forging-machine. No. 933,783; Sept. 14; Sp. p. 1675; Gaz. vol. 146; p. 277.
- Peiseler, G., Charlottenburg, Germany. File and rasp cutting machine. No. 943,993; Dec. 21; Sp. p. 4222; Gaz. vol. 149; p. 729.
- Pelegrin, J. P. (See Thomas and Pelegrin.)
- Péllissier, F., Gonaives, Haiti. Safety derailing device. No. 910,847; Jan. 26; Sp. p. 4937; Gaz. vol. 138; p. 891.
- Pelkey, J. A., et al. (See Dirking, P. L., assignor.)
- Pell, J. F. (See Hickman and Pell.)
- Pellet, A. V., assignor to himself, W. F. Austin, and C. E. Lipscomb, New York, N. Y. Spark-plug. No. 914,451; Mar. 9; Sp. p. 1687; Gaz. vol. 140; p. 289.
- Pelletier, D., Garden township, Delta county, Mich. Sleigh or bob for riding. No. 932,895; Aug. 31; Sp. p. 6895; Gaz. vol. 145; p. 1184.
- Pelletier, F. D., Kansas City, Mo. Folding clothes-rack attachment for bedsteads. No. 932,169; Aug. 24; Sp. p. 5407; Gaz. vol. 145; p. 922.
- Pelletier, J. H., Maspeth, N. Y. Can-closing device. No. 941,533; Nov. 30; Sp. p. 6804; Gaz. vol. 148; p. 1152.
- Pellow, C. E., New York, N. Y. Stenciling-ink. No. 911,327; Feb. 2; Sp. p. 602; Gaz. vol. 139; p. 103.
- Pellnitz, O. P., Delmenhorst, Germany. Purifying pine-oil, pine-tar oil, and wood-tar oil. No. 910,146; Jan. 19; Sp. p. 3447; Gaz. vol. 138; p. 631.
- Pelmulder, C., Grant City, Iowa. Automatic hog-waterer. No. 913,158; Feb. 23; Sp. p. 4398; Gaz. vol. 139; p. 795.
- Peloso, S., New York, N. Y. Non-refillable bottle. No. 939,305; Nov. 9; Sp. p. 1893; Gaz. vol. 148; p. 322.
- Peltason, L. H., St. Louis, Mo. Carton for glassware. No. 914,872; Mar. 9; Sp. p. 2565; Gaz. vol. 140; p. 428.
- Peltier, A., assignor of seven-sixteenths to J. Houpt, Detroit, Mich. Combination priming-cup and spark-plug. No. 937,690; Oct. 19; Sp. p. 4342; Gaz. vol. 147; p. 740.
- Peltier, F. D., Mount Clemens, Mich. Action-slide lock for take-down guns. No. 913,047; Feb. 23; Sp. p. 4185; Gaz. vol. 139; p. 757.
- Peltier, H. F., Columbus, Ohio. Gramophone. No. 917,790; Apr. 13; Sp. p. 1664; Gaz. vol. 141; p. 308.



*Alphabetical list of patentees—Continued.*

- Peltier, J. C., Windsor, Ontario, Canada. Floor-scraper. No. 917,890; Apr. 13; Sp. p. 1870; Gaz. vol. 141; p. 341.
- Pelton, C. H., assignor to Thomas Manufacturing Company, Springfield, Ohio. Disk drill. No. 911,259; Feb. 2; Sp. p. 470; Gaz. vol. 139; p. 81.
- Pelton, C. H., assignor to Thomas Manufacturing Company, Springfield, Ohio. Mowing-machine. No. 943,266; Dec. 14; Sp. p. 2651; Gaz. vol. 149; p. 449.
- Pelton, H. B., Mishawaka, Ind. Paper-roll protector. No. 932,808; Aug. 31; Sp. p. 6741; Gaz. vol. 145; p. 1156.
- Pelton, J. C., San Francisco, Cal. Building construction. No. 930,510; Aug. 10; Sp. p. 2031; Gaz. vol. 145; p. 356.
- Pelton, J. C., San Francisco, Cal. Construction member. No. 930,511; Aug. 10; Sp. p. 2035; Gaz. vol. 145; p. 356.
- Pelton, J. G., (See Green, J. W., assignor.)
- Pelton, W. W., Chicago, Ill. Cape. No. 936,351; Oct. 12; Sp. p. 1553; Gaz. vol. 147; p. 266.
- Pelton Water Wheel Co., (See Haeberelein, M., assignor.)
- Peluso, R., and D. Sack, assignors of one-third to J. I. Mabon, Vandergrift Heights, Pa. Rail-joint. No. 922,030; May 18; Sp. p. 4002; Gaz. vol. 142; p. 699.
- Pemberton, R. N., Topeka, Kans. Paper-file. No. 924,929; June 15; Sp. p. 3931; Gaz. vol. 143; p. 671.
- Pembleton, A. J., Cambridge, Mass. Railway-track structure. No. 926,133; June 29; Sp. p. 6373; Gaz. vol. 143; p. 1131.
- Peña y Martinez, F. S. D., (See Rexach y Torres and Peña y Martinez.)
- Pence, A. H., Somerville, Ala. Marine table. No. 938,695; Nov. 2; Sp. p. 546; Gaz. vol. 148; p. 85.
- Pence, C. F., *et al.* (See Marshall, D. A., assignor.)
- Pence, C. G., *et al.* (See Marshall, D. A., assignor.)
- Pence, J. H., Greeneville, Tenn. Lantern. No. 939,542; Nov. 9; Sp. p. 2420; Gaz. vol. 148; p. 401.
- Pender, J. E. F., assignor to Gorham Manufacturing Company, Providence, R. I. Cigarette-case. No. 932,569; Aug. 31; Sp. p. 6219; Gaz. vol. 145; p. 1077.
- Pender, W., (See Gerrie and Pender.)
- Pendergast, F. W., Cambridge, Mass. Mop-head. No. 909,449; Jan. 12; Sp. p. 2054; Gaz. vol. 138; p. 365.
- Pendergast, F. W., Cambridge, and B. Hinsley, Boston, Mass. Filter. No. 931,472; Aug. 17; Sp. p. 3902; Gaz. vol. 145; p. 673.
- Pendergrass, F. R., Cookeville, Tenn. Hose-nozzle. No. 915,694; Mar. 16; Sp. p. 4221; Gaz. vol. 140; p. 727.
- Pendexter, E. F., Milford, Mass. Car-coupling. No. 931,338; Aug. 17; Sp. p. 3640; Gaz. vol. 145; p. 628.
- Pendleton, R. F., Norwich, N. Y. Coin-controlled game-element carrier. No. 939,306; Nov. 9; Sp. p. 1894; Gaz. vol. 148; p. 323.
- Pendrith, G. T., (See Kaiser, T. W., assignor.)
- Penfield, R. C., New York, N. Y. Brick-setting frame. No. 937,955; Oct. 26; Sp. p. 4906; Gaz. vol. 147; p. 848.
- Penfield, W. A., Meriden, Conn. Antivibration device for vehicles. No. 924,825; June 15; Sp. p. 3722; Gaz. vol. 143; p. 637.
- Penfield, W. F., Springfield, Mass. Mold for making concrete building-blocks having air-spaces. No. 924,373; June 8; Sp. p. 2785; Gaz. vol. 143; p. 453.
- Penman, W. H., (See Marshall and Penman.)
- Penn Railroad Tie Company, (See Bonzano, M. F., assignor.)
- Penn, W. E., (See Macnish and Penn.)
- Pennell, G., (See Zell, J. W., assignor.)
- Pennell, W. O., and H. L. Hoffmann, Kansas City, Mo. Fault-locator for electric cables. No. 925,594; June 22; Sp. p. 5225; Gaz. vol. 143; p. 920.
- Pennewell, J. D., Kansas City, Mo. Clam-shell. No. 936,560; Oct. 12; Sp. p. 2033; Gaz. vol. 147; p. 335.
- Penney, H. D., New York, N. Y. Couch-bed. No. 942,459; Dec. 7; Sp. p. 905; Gaz. vol. 149; p. 146.
- Penney, H. D., New York, assignor of one-half to C. A. Weed, Brooklyn, N. Y. Mask for automobile-lamps. No. 921,449; May 11; Sp. p. 2789; Gaz. vol. 142; p. 479.
- Penney, H. D., assignor of one-half to C. A. Weed, Brooklyn, N. Y. Mask for automobile-lamps. (Reissue.) No. 12,983; June 29; Sp. p. 7538; Gaz. vol. 143; p. 1327.
- Penney, H. D., assignor of one-half to C. A. Weed, Brooklyn, N. Y. Mask for automobile-lamps. No. 929,627; July 27; Sp. p. 6039; Gaz. vol. 144; p. 1057.
- Penney, J. A., McKeesport, Pa. Furnace and heater. No. 923,697; June 1; Sp. p. 1286; Gaz. vol. 143; p. 200.
- Pennie, J. C., *et al.* (See Wilkinson, J. A., assignor.)
- Penniman, W. B. D., Baltimore, Md. Temperature-controlling device. No. 933,577; Sept. 7; Sp. p. 1253; Gaz. vol. 146; p. 186.
- Penning, J., and H. Kleiner, Detroit, Mich. Pitching-machine. No. 929,978; Aug. 3; Sp. p. 754; Gaz. vol. 145; p. 121.
- Pennington, E., Westhope, N. D. Self-binder attachment. No. 941,945; Nov. 30; Sp. p. 7676; Gaz. vol. 148; p. 1293.
- Pennington, G. H., and W. Witherow, Beaver Falls, Pa. Brush. No. 937,640; Oct. 19; Sp. p. 4252; Gaz. vol. 147; p. 725.
- Pennington, J. K., Los Angeles, Cal. Ventilated water-closet. No. 936,561; Oct. 12; Sp. p. 2034; Gaz. vol. 147; p. 335.
- Pennington, J. N., and J. W. Chilton, Broken Arrow, Okla. Hay-hook. No. 931,339; Aug. 17; Sp. p. 3642; Gaz. vol. 145; p. 628.
- Pennington, R., Wilmington, Del. Cuff. No. 934,567; Sept. 21; Sp. p. 3206; Gaz. vol. 146; p. 559.
- Pennock, J. D., Syracuse, N. Y., assignor to Solvay Process Company. Making sodium sulfate. No. 922,031; May 18; Sp. p. 4003; Gaz. vol. 142; p. 699.
- Pennock, W. I., Philadelphia, Pa. Apparatus for collecting atmospheric electricity. No. 911,260; Feb. 2; Sp. p. 473; Gaz. vol. 139; p. 81.
- Pennoyer, N. A., Kenosha, Wis. Combined caspidor and rubbish-receptacle. No. 923,883; June 8; Sp. p. 1753; Gaz. vol. 143; p. 292.
- Pennsylvania Furnace and Stove Company, (See Schellhammer, A. L., assignor.)
- Pennsylvania Globe Gas Light Company, (See Shlack, V. H., assignor.)
- Pennsylvania Globe Gas Light Company of Philadelphia, (See Shaw, A. E., assignor.)
- Pennsylvania Steel Company, (See Fink, C. E., assignor.)
- Pennsylvania Steel Company, (See Long, M. W., assignor.)
- Penny, J. W., North Pelham, N. Y. Device for hand-blocking hats. No. 929,483; July 27; Sp. p. 5755; Gaz. vol. 144; p. 1010.
- Penobscot Chemical Fibre Company, (See Wentworth and Larchar, assignors.)
- Pensalek, J., Pittsburg, Pa. Pocket. No. 931,473; Aug. 17; Sp. p. 3903; Gaz. vol. 145; p. 674.
- Pentecost, D., Jr., Washington, D. C. Monocycle. No. 919,070; Apr. 20; Sp. p. 4371; Gaz. vol. 141; p. 763.
- Pentecost, A., East Orange, assignor to Pike Adding Machine Company, Orange, N. J. Attachment for adding-machines. No. 910,848; Jan. 26; Sp. p. 4939; Gaz. vol. 138; p. 892.
- Pentecost, A., East Orange, assignor to Pike Adding Machine Company, Orange, N. J. Ribbon mechanism for calculating-machines. No. 912,162; Feb. 9; Sp. p. 2311; Gaz. vol. 139; p. 400.
- Pentecost, A., East Orange, assignor to Pike Adding Machine Company, Orange, N. J. Attachment for platen-carriages. No. 918,587; Apr. 20; Sp. p. 3316; Gaz. vol. 141; p. 603.
- Penton, L. B., Villisca, Iowa. Surface-cultivating shovel. No. 911,437; Feb. 2; Sp. p. 794; Gaz. vol. 139; p. 138.
- Penwell, A. L., Leland, Ore. Combination-door. No. 940,719; Nov. 23; Sp. p. 5043; Gaz. vol. 148; p. 861.
- Penzer, L. W., assignor of one-half to J. A. Kain, Richmond, Va. Window. No. 920,641; May 4; Sp. p. 1105; Gaz. vol. 142; p. 180.
- Peoria Lawn Mower Grinder Co., (See Warner, A. C., assignor.)
- Pepling, M., Newark, N. J., assignor to F. Moss, New York, N. Y. Winding-machine. No. 939,160; Nov. 2; Sp. p. 1521; Gaz. vol. 148; p. 247.
- Peplinski, J. W., assignor to H. N. Thayer Company, Erie, Pa. Automatic tire-upsetting and wire-twisting machine. No. 930,987; Aug. 10; Sp. p. 2831; Gaz. vol. 145; p. 478.
- Peplinski, J. W., and C. F. Thayer, assignors to H. N. Thayer Company, Erie, Pa. Automatic spoke-inserting machine. No. 930,986; Aug. 10; Sp. p. 2827; Gaz. vol. 145; p. 478.
- Pepper, E. J., Jackson, Mo. Key-fastener. No. 919,941; Apr. 27; Sp. p. 6377; Gaz. vol. 141; p. 941.
- Pepperell Card & Paper Company, (See Morrow, J. B., assignor.)
- Pepple, J. W., Hillsboro, Tex. Combined mail crane, catcher, and deliverer. No. 923,200; June 1; Sp. p. 168; Gaz. vol. 143; p. 28.
- Pepple, J. W., Hillsboro, Tex. Mail-pouch-transferring apparatus. No. 942,214; Dec. 7; Sp. p. 397; Gaz. vol. 149; p. 61.
- Perical, C. F., assignor to S. Clark, Springfield, Mass. Convertible seat and bed. No. 924,374; June 8; Sp. p. 2787; Gaz. vol. 143; p. 454.
- Perical, H. E., Houston, Tex., assignor of one-half to B. W. Key, Woodward, Okla. Rail-fastening. No. 924,688; June 15; Sp. p. 3432; Gaz. vol. 143; p. 590.
- Perical, H. E., Houston, Tex., assignor of one-half to B. W. Key, Woodward, Okla. Fastening. No. 938,073; Oct. 26; Sp. p. 5162; Gaz. vol. 147; p. 886.
- Perdew, C. H., Sr., Henry, Ill. Crow-call. No. 939,080; Nov. 2; Sp. p. 1341; Gaz. vol. 148; p. 219.
- Perdew, C. M., assignor to J. W. Sparrow, Cincinnati, Ohio. Pleasure-railway. No. 931,705; Aug. 17; Sp. p. 4393; Gaz. vol. 145; p. 746.
- Perelzveich, V., and G. Rosenbusch, Zurich, Switzerland. Solidified alcohol and making the same. No. 919,759; Apr. 27; Sp. p. 5987; Gaz. vol. 141; p. 1029.
- Perelzveich, V., and G. Rosenbusch, Zurich, Switzerland. Heating device. No. 922,503; May 25; Sp. p. 4941; Gaz. vol. 142; p. 880.
- Perez, F. G., San Francisco, Cal. Compression-pump. No. 921,155; May 11; Sp. p. 2155; Gaz. vol. 142; p. 380.
- Perfect Gate Co., (See Liles, H. P., assignor.)
- Perfect Simplex Combustion Company, (See Dwinell, R. J. W., assignor.)
- Perfect Sliding Door Company, (See Schuyler and Laughlin, assignors.)

*Alphabetical list of patentees—Continued.*

- Perfected Powder Puff Company. (See Shenberg, P. I., assignor.)  
 Perfection Card Rack Company. (See Williams, E. O., assignor.)  
 Perfection Emergency Tire Company. (See Grable, G. C., assignor.)  
 Perfection Manufacturing Company. (See Curran, M., assignor.)  
 Perfection Manufacturing Company. (See Eberle, J. A., assignor.)  
 Perfection Spring Company. (See McIntyre, M. M., assignor.)  
 Perforated Pad Company. (See Bailey, C. C., assignor.)  
 Perine, D. M., Pittsburg, Pa. Razor-blade sharpener. No. 936,935; Oct. 12; Sp. p. 2765; Gaz. vol. 147; p. 462.  
 Perkins, A. C., Washington, D. C. Toothpick. No. 911,068; Feb. 2; Sp. p. 89; Gaz. vol. 139; p. 16.  
 Perkins, A. D., Los Angeles, Cal. Hinge. No. 935,611; Sept. 28; Sp. p. 5317; Gaz. vol. 146; p. 933.  
 Perkins, A. J., Revere, assignor to Boston Electric Company, Boston, Mass. Electric hand-lighting gas-burner. No. 916,776; Mar. 30; Sp. p. 6297; Gaz. vol. 140; p. 1126.  
 Perkins, C. E., *et al.* (See Perkins, H. J., assignor.)  
 Perkins, C. G., assignor to Arrow Electric Company, Hartford, Conn. Rotary snap electric switch. No. 908,694; Jan. 5; Sp. p. 557; Gaz. vol. 138; p. 87.  
 Perkins, C. G., assignor to Arrow Electric Company, Hartford, Conn. Electric snap-switch mechanism. No. 932,056; Aug. 24; Sp. p. 5183; Gaz. vol. 145; p. 884.  
 Perkins Electric Switch Manufacturing Company. (See Goodridge, G. W., assignor.)  
 Perkins Electric Switch Manufacturing Company. (See Jones, W. W., assignor.)  
 Perkins Electric Switch Manufacturing Company. (See Miller, J. H., assignor.)  
 Perkins Electric Switch Manufacturing Company. (See Moulthrop, L. H., assignor.)  
 Perkins Electric Switch Manufacturing Company. (See Seeley, F. E., assignor.)  
 Perkins Electric Switch Manufacturing Company. (See Thomas, G. B., assignor.)  
 Perkins Electric Switch Mfg. Company. (See Poole, F. P., assignor.)  
 Perkins Electric Switch Mfg. Company. (See Steiger, W. V., assignor.)  
 Perkins, F. C., Buffalo, N. Y. Optical illusion device. No. 909,450; Jan. 12; Sp. p. 2055; Gaz. vol. 138; p. 366.  
 Perkins, F. C., Buffalo, N. Y. Producing and refining steel. No. 937,885; Oct. 26; Sp. p. 4705; Gaz. vol. 147; p. 814.  
 Perkins, F. C., assignor to Cyphers Incubator Company, Buffalo, N. Y. Metallic incubator. No. 938,271; Oct. 26; Sp. p. 5587; Gaz. vol. 147; p. 955.  
 Perkins, F. C., and C. Z. Davis, assignors to Cyphers Incubator Company, Buffalo, N. Y. Incubator. No. 931,142; Aug. 17; Sp. p. 3208; Gaz. vol. 145; p. 560.  
 Perkins, F. J., Woburn, Mass. Staking-machine. No. 926,826; July 6; Sp. p. 255; Gaz. vol. 144; p. 40.  
 Perkins, F. J., Woburn, Mass., assignor to Turner Company, G. M. B. H., (Limited,) Frankfurt-on-the-Main, Germany. Putting-out machine. No. 926,825; July 6; Sp. p. 249; Gaz. vol. 144; p. 40.  
 Perkins, F. J., Woburn, assignor, by mesne assignments, to Turner Tanning Machinery Company, Boston, Mass. Putting-out machine. No. 931,340; Aug. 17; Sp. p. 3643; Gaz. vol. 145; p. 628.  
 Perkins, F. L., *et al.* (See Perkins, H. J., assignor.)  
 Perkins, F. L., Batesville, Miss. Railway switch mechanism. No. 942,927; Dec. 14; Sp. p. 1917; Gaz. vol. 149; p. 334.  
 Perkins, G. B., and J. S. Forbes, Elvins, Mo. Track-gage. No. 930,791; Aug. 10; Sp. p. 2397; Gaz. vol. 145; p. 415.  
 Perkins, H. A., assignor to American Wood Working Machinery Co., Rochester, N. Y. Feed mechanism for wood-planers. No. 916,934; Mar. 30; Sp. p. 6621; Gaz. vol. 140; p. 1180.  
 Perkins, H. A., assignor to American Wood Working Machinery Co., Rochester, N. Y. Feed-roll-controlling mechanism for wood-planers. No. 936,659; Oct. 12; Sp. p. 2238; Gaz. vol. 147; p. 371.  
 Perkins, H. A., and F. H. Clement, assignors to American Wood Working Machinery Co., Rochester, N. Y. Planing-machine cutter-head. No. 910,413; Jan. 19; Sp. p. 4053; Gaz. vol. 138; p. 726.  
 Perkins, H. J., assignor to Michigan Wheel Company, Grand Rapids, Mich. Steering device for motor-boats. No. 911,069; Feb. 2; Sp. p. 90; Gaz. vol. 139; p. 17.  
 Perkins, H. J., assignor of one-third to C. E. Perkins and one-third to F. L. Perkins, Grand Rapids, Mich. Reversible propeller-wheel. No. 919,071; Apr. 20; Sp. p. 4373; Gaz. vol. 141; p. 764.  
 Perkins, J. B., Newton, Mass. Automatic valve. No. 915,624; Mar. 16; Sp. p. 4060; Gaz. vol. 140; p. 701.  
 Perkins, J. D. (See Burke, Rodgers, and Perkins.)  
 Perkins, J. L., assignor to B. F. Perkins and Son, Incorporated, Holyoke, Mass. Strength-testing apparatus. No. 924,579; June 8; Sp. p. 3180; Gaz. vol. 143; p. 520.  
 Perkins, J. W., Everett, Mass. Syringe-nozzle. No. 933,578; Sept. 7; Sp. p. 1262; Gaz. vol. 146; p. 186.  
 Perkins, L. J., Lewiston, Idaho. Pneumatic vehicle-gear. No. 935,811; Oct. 5; Sp. p. 458; Gaz. vol. 147; p. 65.  
 Perkins, M. F. (See Perkins, T. E., assignor.)  
 Perkins, O. B., Gloucester, Mass. Clamp. No. 908,884; Jan. 5; Sp. p. 940; Gaz. vol. 138; p. 149.  
 Perkins, R. D., *et al.* (See Gross, M. K. and C. C., assignors.)  
 Perkins, T. E., assignor to M. F. Perkins, Philadelphia, Pa. Egg-case. No. 930,882; Aug. 10; Sp. p. 2608; Gaz. vol. 145; p. 446.  
 Perkins, T. F., Atlanta, Tex. Means for utilizing electrical energy. No. 927,675; July 13; Sp. p. 2029; Gaz. vol. 144; p. 353.  
 Perkins, T. F., Atlanta, Tex. Means for utilizing electrical energy. No. 928,214; July 13; Sp. p. 3124; Gaz. vol. 144; p. 532.  
 Perkins, T. S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controller for electric motors. No. 914,972; Mar. 9; Sp. p. 2726; Gaz. vol. 140; p. 459.  
 Perkins, W. H., Cheshire, assignor to Waterbury Mfg. Co., Waterbury, Conn. Ball-cock for flushing-tanks. No. 909,328; Jan. 12; Sp. p. 1826; Gaz. vol. 138; p. 328.  
 Perkins, W. H., Cheshire, assignor to Waterbury Mfg. Co., Waterbury, Conn. Powder-box top. No. 925,648; June 22; Sp. p. 5349; Gaz. vol. 143; p. 936.  
 Perkins, W. H., Cheshire, assignor to Waterbury Mfg. Co., Waterbury, Conn. Box-top. No. 928,793; July 20; Sp. p. 4332; Gaz. vol. 144; p. 754.  
 Perkins, W. H., Cheshire, assignor to Waterbury Mfg. Co., Waterbury, Conn. Wrought-metal fitting for plumbers' use. No. 944,046; Dec. 21; Sp. p. 4330; Gaz. vol. 149; p. 746.  
 Perkins, W. P., Willis, Tex. Rail-joint. No. 942,662; Dec. 7; Sp. p. 1312; Gaz. vol. 149; p. 215.  
 Perky, H. D., deceased, Glencoe, Md.; L. Sparks, administrator. Machine for reducing grain products to composite forms of food. No. 912,976; Feb. 16; Sp. p. 4033; Gaz. vol. 139; p. 707.  
 Perky, H. D., deceased, Glencoe, Md.; L. Sparks, administrator. Reducing disk machine for the manufacture of cereal products. No. 913,671; Feb. 23; Sp. p. 5491; Gaz. vol. 139; p. 967.  
 Perky, H. D., deceased, Glencoe, Md.; L. Sparks, administrator. Machine for manufacturing grain into form for food. No. 916,365; Mar. 23; Sp. p. 5476; Gaz. vol. 140; p. 972.  
 Perky, S. H., Niagara Falls, N. Y. Printing-type. No. 921,156; May 11; Sp. p. 2156; Gaz. vol. 142; p. 380.  
 Perna, A. B. (See Kleinfeldt, A., assignor.)  
 Perley, J., Lynn, Mass., assignor, by mesne assignments, to Reece Buttonhole Machine Company. Machine for sewing shank-eyed buttons. No. 939,161; Nov. 2; Sp. p. 1527; Gaz. vol. 148; p. 247.  
 Perlich, A., Lesden, Germany. Pot for making coffee and like beverages. No. 913,303; Feb. 23; Sp. p. 4699; Gaz. vol. 139; p. 843.  
 Permutation Lock and Novelty Manufacturing Company. (See Quaintance, E. E., assignor.)  
 Peros, M. (See Perpich, S., assignor.)  
 Perpich, S., assignor of one-fourth to M. Peros, Steelton, Pa. Umbrella. No. 912,163; Feb. 9; Sp. p. 2314; Gaz. vol. 139; p. 401.  
 Perpignan, A. L., and G. H. Riebelman, Brooklyn, N. Y. Package-chute. No. 934,347; Sept. 14; Sp. p. 2780; Gaz. vol. 146; p. 462.  
 Perrault, H. E., Detroit, Mich. Valve mechanism. No. 920,991; May 11; Sp. p. 1827; Gaz. vol. 142; p. 324.  
 Perrault, J. E., Waltham, Mass., assignor to Judson L. Thomson Mfg Co. Hopper and feeding device. No. 936,029; Oct. 5; Sp. p. 905; Gaz. vol. 147; p. 137.  
 Perreault, H. (See Sarrazin and Perreault.)  
 Perrenot, G. F., assignor of one-fourth to R. W. Easterling, Yoakum, Tex. Attachment for phonographs, &c. No. 937,641; Oct. 19; Sp. p. 4253; Gaz. vol. 147; p. 725.  
 Perrers, E. E., Buffalo, N. Y. Buffing-machine. No. 911,261; Feb. 2; Sp. p. 476; Gaz. vol. 139; p. 82.  
 Perrie, J., Chicago, Ill. Nut-lock. No. 921,278; May 11; Sp. p. 2429; Gaz. vol. 142; p. 422.  
 Perrin, C. H., Chalon-sur-Saône, France. Apparatus for filtering liquids. No. 915,695; Mar. 16; Sp. p. 4222; Gaz. vol. 140; p. 727.  
 Perrin, F. S., New York, N. Y. Speed-limiting device for electrically-ignited explosive-engines. No. 910,414; Jan. 19; Sp. p. 4054; Gaz. vol. 138; p. 726.  
 Perrin, J. L. (See Butcher and Perrin.)  
 Perrin, S. L., *et al.* (See Anderson, T. E., assignor.)  
 Perrin, W. H., New Liskeard, Ontario, Canada. Shocking attachment for binders. No. 908,695; Jan. 5; Sp. p. 558; Gaz. vol. 138; p. 87.



*Alphabetical list of patentees—Continued.*

- Perrine, F. A. C., deceased, Plainfield, N. J.; M. R. Perrine, executrix. Supporting-pin for insulators. No. 932,570; Aug. 31; Sp. p. 6222; Gaz. vol. 145; p. 1078.
- Perrine, H. L., Allenhurst, N. J. Pump. No. 912,025; Feb. 9; Sp. p. 2051; Gaz. vol. 139; p. 357.
- Perrine, H. L., Allenhurst, N. J. Adjustable cut-off gear for steam-engines. No. 915,213; Mar. 16; Sp. p. 3236; Gaz. vol. 140; p. 566.
- Perrine, J. B., Valparaiso, Ind., assignor to J. E. Plew, Chicago, Ill. Vertical-filing system. No. 914,452; Mar. 9; Sp. p. 1688; Gaz. vol. 140; p. 289.
- Perrine, J. R., assignor to Cincinnati Lathe & Tool Company, Cincinnati, Ohio. Lathe-feed mechanism. No. 912,609; Feb. 16; Sp. p. 3283; Gaz. vol. 139; p. 589.
- Perrine, M. R., executrix. (See Perrine, F. A. C.)
- Perring, I. O., Kalamazoo, Mich. Camera. No. 941,688; Nov. 30; Sp. p. 7121; Gaz. vol. 148; p. 1203.
- Perris, N., Harrisburg, Pa. Circle-divider. No. 931,080; Aug. 17; Sp. p. 3073; Gaz. vol. 145; p. 539.
- Perron, A. J., Lowell, Mass. Pie-trimmer. No. 941,337; Nov. 23; Sp. p. 6360; Gaz. vol. 148; p. 1064.
- Perron, F. A. (See Girouard and Perron.)
- Perry, A. I., New York, N. Y. Air-brake system. No. 913,972; Mar. 2; Sp. p. 664; Gaz. vol. 140; p. 106.
- Perry, C. R., and C. M. Finch, San Francisco, Cal.; said Perry assignor to said Finch. Filter. No. 922,326; May 18; Sp. p. 4576; Gaz. vol. 142; p. 794.
- Perry, C. R., and C. M. Finch, San Francisco, Cal.; said Perry assignor to said Finch. Filter. No. 924,497; June 8; Sp. p. 3018; Gaz. vol. 143; p. 493.
- Perry, C. R., C. M. Finch, and M. L. Rice, San Francisco, Cal.; said Perry and Rice assignors to said Finch. Filter. No. 915,038; Mar. 9; Sp. p. 2842; Gaz. vol. 140; p. 481.
- Perry, C. S., assignor of one-fourth to J. Puterbaugh and one-half to R. S. Walker, Chattanooga, Tenn. Sprayer. No. 912,261; Feb. 9; Sp. p. 2508; Gaz. vol. 139; p. 431.
- Perry, C. S., Chicago, Ill., assignor to Stromberg Electric Mfg. Co. Time-stamp. No. 920,173; May 4; Sp. p. 153; Gaz. vol. 142; p. 25.
- Perry Curtain Hanger Co. (See Logsdon, A., assignor.)
- Perry, D. P. (See Morrison, W., assignor.)
- Perry, D. P., assignor, by mesne assignments, of two-thirds to W. Morrison, Chicago, Ill., and one-third to M. A. Lumbard, Des Moines, Iowa. Preparing storage-battery elements. No. 931,081; Aug. 17; Sp. p. 3074; Gaz. vol. 145; p. 539.
- Perry, D. P., assignor, by mesne assignments, of two-thirds to W. Morrison, Chicago, Ill., and one-third to M. A. Lumbard, Des Moines, Iowa. Preparing alkaline electrolytes for storage batteries. No. 931,082; Aug. 17; Sp. p. 3075; Gaz. vol. 145; p. 539.
- Perry, D. P., assignor, by mesne assignments, of two-thirds to W. Morrison, Chicago, Ill., and one-third to M. A. Lumbard, Des Moines, Iowa. Storage battery. No. 942,279; Dec. 7; Sp. p. 543; Gaz. vol. 149; p. 84.
- Perry, E. C., assignor to American Car Sprinkler Company, Worcester, Mass. Car-sprinkler valve. No. 942,974; Dec. 14; Sp. p. 2023; Gaz. vol. 149; p. 350.
- Perry, E. L. (See Mastin and Perry.)
- Perry, F., and O. S. Nordholt, Ludington, Mich. Fruit-holding receptacle. No. 915,696; Mar. 16; Sp. p. 4223; Gaz. vol. 140; p. 728.
- Perry, F. H., Beverly, Mass. Pneumatic tire. No. 924,102; June 8; Sp. p. 2159; Gaz. vol. 143; p. 361.
- Perry, F. H., Beverly, Mass. Clothes-pin. No. 929,703; Aug. 3; Sp. p. 132; Gaz. vol. 145; p. 23.
- Perry, F. H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 910,147; Jan. 19; Sp. p. 3448; Gaz. vol. 138; p. 632.
- Perry, G. E., Chicago, Ill. Time-stamp. No. 919,072; Apr. 20; Sp. p. 4374; Gaz. vol. 141; p. 764.
- Perry, G. E., Chicago, Ill., assignor to Stromberg Electric Mfg. Co. Time-stamp. No. 920,174; May 4; Sp. p. 157; Gaz. vol. 142; p. 25.
- Perry, G. E., Chicago, Ill., assignor to Stromberg Electric Mfg. Co. Time-stamp. No. 920,175; May 4; Sp. p. 162; Gaz. vol. 142; p. 26.
- Perry, G. S., Branford, Fla. Telegraph-key. No. 935,164; Sept. 28; Sp. p. 4404; Gaz. vol. 146; p. 786.
- Perry, G. W., et al. (See Reesor, I. C., assignor.)
- Perry, H. K. (See Schultze, C. W., assignor.)
- Perry, J., Cambridge, Mass. Wind-power machine. No. 923,698; June 1; Sp. p. 1288; Gaz. vol. 143; p. 200.
- Perry, J. D., Detroit, Mich. Milk-pail. No. 911,262; Feb. 2; Sp. p. 481; Gaz. vol. 139; p. 82.
- Perry, J. L., Bluffton, Ind. Earth-anchor or anchor-post. No. 930,792; Aug. 10; Sp. p. 2399; Gaz. vol. 145; p. 416.
- Perry, J. R., assignor to Perry Pipe Company, Chicago, Ill. Pipe, cigar-holder, &c. No. 936,734; Oct. 12; Sp. p. 2381; Gaz. vol. 147; p. 396.
- Perry, L. C., Haynes, Ark. Fishing-gig. No. 923,573; June 1; Sp. p. 1025; Gaz. vol. 143; p. 157.
- Perry Pipe Company. (See Perry, J. R., assignor.)
- Perry, R. S., Cave Spring, Ga. Manufacture of paints. No. 938,505; Nov. 2; Sp. p. 125; Gaz. vol. 148; p. 20.
- Perry, R. W., Stoneham, assignor of one-half to G. H. Stevens, Melrose, Mass. Heel-lift cutter. No. 911,905; Feb. 9; Sp. p. 1713; Gaz. vol. 139; p. 318.
- Perry, S., Orcutt, Cal. Pump. No. 916,777; Mar. 30; Sp. p. 6299; Gaz. vol. 140; p. 1126.
- Perry, S. B., Findlay, Ill. Burglar-alarm. No. 928,794; July 20; Sp. p. 4332; Gaz. vol. 144; p. 755.
- Perry, S. G., Port Dalhousie, Ontario, Canada. Pocket-door for scows and hinge therefor. No. 926,597; June 29; Sp. p. 7281; Gaz. vol. 143; p. 1285.
- Perry, T. O., Chicago, Ill. Fluid-pressure controller. No. 920,491; May 4; Sp. p. 795; Gaz. vol. 142; p. 129.
- Perry, T. O., Chicago, Ill. Air-compressor. No. 927,162; July 6; Sp. p. 958; Gaz. vol. 144; p. 155.
- Perry, T. O., Chicago, Ill. Air-compressor. No. 928,326; July 20; Sp. p. 3415; Gaz. vol. 144; p. 601.
- Perry, T. O., Chicago, Ill. Pneumatic pump or apparatus for raising water by means of compressed air. No. 933,200; Sept. 7; Sp. p. 366; Gaz. vol. 146; p. 58.
- Perry, T. O., Chicago, Ill. Pneumatic pump or apparatus for raising water by means of compressed air. No. 939,307; Nov. 9; Sp. p. 1897; Gaz. vol. 148; p. 323.
- Perry Time Stamp Company. (See Crook, C. M., assignor.)
- Perry, W. A., et al. (See Haslup, W., assignor.)
- Perry, W. C., Charlestown, R. I. Loom. No. 922,718; May 25; Sp. p. 5397; Gaz. vol. 142; p. 951.
- Perry, W. C., Charlestown, R. I. Clutch-pulley attachment. No. 922,719; May 25; Sp. p. 5399; Gaz. vol. 142; p. 951.
- Perry, W. C., Luther, Okla. Air-siph. No. 937,956; Oct. 26; Sp. p. 4910; Gaz. vol. 147; p. 848.
- Perry, W. E., Toronto, Ontario, Canada. Rotary washing-machine. No. 938,506; Nov. 2; Sp. p. 128; Gaz. vol. 148; p. 20.
- Perry, W. L., Scranton, Pa. Carbureter. No. 926,598; June 29; Sp. p. 7283; Gaz. vol. 143; p. 1286.
- Perryman, H. L., assignor to National Tongueless Buckle Company, Springfield, Ohio. Belt-buckle. No. 909,213; Jan. 12; Sp. p. 1610; Gaz. vol. 138; p. 289.
- Persic, F., assignor of one-fourth to J. Kastjack, Minonk, Ill. Rail-fastener. No. 940,986; Nov. 23; Sp. p. 5604; Gaz. vol. 148; p. 949.
- Person, C. J., Chicago, Ill. Necktie. No. 919,942; Apr. 27; Sp. p. 6378; Gaz. vol. 141; p. 1090.
- Person, G. H., and R. Uhler, Easton, Pa. Lawn-trimmer. No. 935,225; Sept. 28; Sp. p. 4521; Gaz. vol. 146; p. 805.
- Person, W. M., Sparrows Point, Md. Coke-oven. No. 926,285; June 29; Sp. p. 6699; Gaz. vol. 143; p. 1182.
- Personett, H., Atwood, Ill. Rope-making machine. No. 939,308; Nov. 9; Sp. p. 1903; Gaz. vol. 148; p. 324.
- Persons, J. O., Norfolk, Va. Lining pipes. No. 942,184; Dec. 7; Sp. p. 336; Gaz. vol. 149; p. 51.
- Persons, A. (See Persons, J. and A.)
- Persons, J. and A., Thildonck, Belgium. Drum for centrifugal cream-separators. No. 941,809; Nov. 30; Sp. p. 7404; Gaz. vol. 148; p. 1245.
- Pertzsch, W., Onalaska, Wis. Potato-sorter. No. 943,097; Dec. 14; Sp. p. 2314; Gaz. vol. 149; p. 393.
- Perusse, A., Kingston, N. Y. Brace for brick-kilns. No. 944,104; Dec. 21; Sp. p. 4442; Gaz. vol. 149; p. 766.
- Pervilhac, H. (See Ratignier and Pervilhac.)
- Pescud, P. F., et al. (See Feibiger, H. B., assignor.)
- Pessano, A. C. (See Pahlow, F. C., assignor.)
- Peteet, R. E., Aberdeen, Miss. Toy. No. 921,450; May 11; Sp. p. 2791; Gaz. vol. 142; p. 480.
- Peter, F., Anna, Ill. Churn. No. 943,200; Dec. 14; Sp. p. 2513; Gaz. vol. 149; p. 426.
- Peter, F. A., Newside, Pa. Snow-guard. No. 933,784; Sept. 14; Sp. p. 1677; Gaz. vol. 146; p. 277.
- Peter, G. W., St. Louis, Mo. Coin-chute. No. 929,165; July 27; Sp. p. 5101; Gaz. vol. 144; p. 906.
- Peter, R. B., Rockville, Md. Captive golf apparatus. No. 914,873; Mar. 9; Sp. p. 2565; Gaz. vol. 140; p. 428.
- Peterman, C., Fond du Lac, Wis. Gaining-machine. No. 944,047; Dec. 21; Sp. p. 4332; Gaz. vol. 149; p. 746.
- Peterman, J. C., Olney, Pa. Door check and buffer. No. 922,185; May 18; Sp. p. 4297; Gaz. vol. 142; p. 749.
- Peterman, J. M., New Market, Iowa. Clothes-line. No. 922,032; May 18; Sp. p. 4004; Gaz. vol. 142; p. 700.
- Peterman, J. M., New Market, Iowa. Sliding gate. No. 942,408; Dec. 7; Sp. p. 780; Gaz. vol. 149; p. 128.
- Peterman, J. W., Exira, Iowa. Ironing-cabinet. No. 930,491; Aug. 10; Sp. p. 1743; Gaz. vol. 145; p. 314.
- Peters, A. E., Canton, Ohio. Shearing-machine. No. 923,293; June 1; Sp. p. 420; Gaz. vol. 143; p. 59.
- Peters, C. L., Marinette, Wis. Stamp-affixing device. No. 927,749; July 13; Sp. p. 2168; Gaz. vol. 144; p. 376.
- Peters, C. R., Monterey, Cal. Wire fence. No. 916,192; Mar. 23; Sp. p. 5162; Gaz. vol. 140; p. 914.
- Peters Cartridge Company. (See Mill, A., assignor.)
- Peters Cartridge Company. (See Muenzenmaier, G. A., assignor.)

*Alphabetical list of patentees—Continued.*

- Peters, D. T., and A. H. Grant, Kansas City, Mo. Storm sash or screen hanger. No. 922,625; May 25; Sp. p. 5207; Gaz. vol. 142; p. 922.
- Peters, D. T., and A. H. Grant, Kansas City, Mo. Storm sash or screen hanger. No. 922,720; May 25; Sp. p. 5401; Gaz. vol. 142; p. 952.
- Peters, E. T., Lincoln, Nebr. Window-screen. No. 937,642; Oct. 19; Sp. p. 4255; Gaz. vol. 147; p. 725.
- Peters, F. B. (See Weidenbach and Peters.)
- Peters, F. M., St. Louis, Mo. Shoe-lace guard and cover. No. 910,308; Jan. 19; Sp. p. 3834; Gaz. vol. 138; p. 691.
- Peters, G. A., Hutchinson, Minn. Wagon rack or box lifting device. No. 908,491; Jan. 5; Sp. p. 111; Gaz. vol. 138; p. 21.
- Peters, H., *et al.* (See Driskell, W. S., assignor.)
- Peters, H. G., Mendon, Okla. Sand-band. No. 923,995; June 8; Sp. p. 1975; Gaz. vol. 143; p. 327.
- Peters, J. E., Los Angeles, Cal. Rivet-feeding device. No. 942,864; Dec. 7; Sp. p. 1732; Gaz. vol. 149; p. 281.
- Peters, J. L., Allentown, Pa. Stopper-lock for bottles. No. 924,375; June 8; Sp. p. 2795; Gaz. vol. 143; p. 454.
- Peters, J. L., Allentown, Pa. Folding rocking-chair. No. 933,336; Sept. 7; Sp. p. 687; Gaz. vol. 146; p. 106.
- Peters, L. H., Quebec, Quebec, Canada. Water-excluding bar for casement-sashes and doors. No. 928,065; July 13; Sp. p. 2829; Gaz. vol. 144; p. 482.
- Peters, M. C., Omaha, Nebr. Mixing apparatus. No. 914,304; Mar. 2; Sp. p. 1382; Gaz. vol. 140; p. 214.
- Peters, M. C., Omaha, Nebr. Milling process. No. 938,333; Oct. 26; Sp. p. 5730; Gaz. vol. 147; p. 976.
- Peters Signal Company. (See Chandeysson, P. L., assignor.)
- Peters, T. J., Perrine, Fla. Cane-harvesting machine. No. 926,599; June 29; Sp. p. 7286; Gaz. vol. 143; p. 1286.
- Peters, T. J., Perrine, Fla. Cane-stripper. No. 928,149; July 13; Sp. p. 2976; Gaz. vol. 144; p. 509.
- Peters, W. (See Gins and Peters.)
- Peters, W., and S. Gins, Monessen, Pa. Nut-lock. No. 910,309; Jan. 19; Sp. p. 3835; Gaz. vol. 138; p. 691.
- Peters, W. C., Harrisburg, Pa. Railway-crossing. No. 942,740; Dec. 7; Sp. p. 1467; Gaz. vol. 149; p. 240.
- Peters, W. E., Newport News, Va. Life-saving apparatus. No. 910,017; Jan. 19; Sp. p. 3194; Gaz. vol. 138; p. 590.
- Peters, W. E., Athens, Ohio. Telephone-receiver. No. 911,438; Feb. 2; Sp. p. 795; Gaz. vol. 139; p. 139.
- Petersen, A., Chelsea, Mass. Carrier for braid, cord making, and similar machines. No. 931,083; Aug. 17; Sp. p. 3077; Gaz. vol. 145; p. 540.
- Petersen, A., Chelsea, assignor of one-half to G. W. Gregory, Boston, Mass. Carrier for braiding-machines and the like. No. 931,084; Aug. 17; Sp. p. 3079; Gaz. vol. 145; p. 540.
- Petersen, A. H., New York, N. Y. Grinding or pulverizing machine. No. 942,865; Dec. 7; Sp. p. 1734; Gaz. vol. 149; p. 281.
- Petersen, C., Chicago, Ill. Brush. No. 913,304; Feb. 23; Sp. p. 4700; Gaz. vol. 139; p. 844.
- Petersen, E. S., assignor of one-half to B. C. Metzger, Richmond, Va. Reeling device. No. 933,337; Sept. 7; Sp. p. 689; Gaz. vol. 146; p. 107.
- Petersen, H., Wilmersdorf, near Berlin, Germany. Making sulfuric acid. No. 908,696; Jan. 5; Sp. p. 560; Gaz. vol. 138; p. 88.
- Petersen, J. C. (See Olsen and Petersen.)
- Petersen, P. C., Perth Amboy, N. J. Dispensing-machine. No. 935,401; Sept. 28; Sp. p. 4874; Gaz. vol. 146; p. 862.
- Petersen, P. H., Lead, S. D. Switch-throwing device. No. 917,652; Apr. 6; Sp. p. 1341; Gaz. vol. 141; p. 236.
- Petersen, R., Asbury Park, N. J. Drying apparatus. No. 910,720; Jan. 26; Sp. p. 4681; Gaz. vol. 138; p. 851.
- Petersen, R., Berlin, Germany. Suspended railway. No. 935,859; Oct. 5; Sp. p. 560; Gaz. vol. 147; p. 80.
- Petersen, T. C., and E. A. Ekedahl, assignors to Art Metal Construction Company, Jamestown, N. Y. Book-shelf. No. 921,884; May 18; Sp. p. 3691; Gaz. vol. 142; p. 651.
- Petersen, W., Gosforth, assignor to Monitor Shipping Corporation Company Limited, Newcastle-upon-Tyne, England. Navigable vessel. No. 913,973; Mar. 2; Sp. p. 681; Gaz. vol. 140; p. 106.
- Peterson, A., assignor to B. P. Stromberg and L. M. Kraus, St. Louis, Mo. Suit-case frame. No. 910,849; Jan. 26; Sp. p. 4941; Gaz. vol. 138; p. 892.
- Peterson, A. A. (See Peterson, G. P., C. E. and A. A.)
- Peterson, A. F., Kent, Ohio. Pulverizer. No. 927,277; July 6; Sp. p. 1180; Gaz. vol. 144; p. 194.
- Peterson, A. L. (See Addie, H. G., assignor.)
- Peterson, A. M., Goodhue, Minn. Mortar or concrete mixer. No. 940,552; Nov. 16; Sp. p. 4689; Gaz. vol. 148; p. 780.
- Peterson, B., Worcester, Mass. Rolling-mill furnace. No. 915,109; Mar. 16; Sp. p. 3013; Gaz. vol. 140; p. 532.
- Peterson, C., Stanchfield, Minn. Punch and shear. No. 942,409; Dec. 7; Sp. p. 788; Gaz. vol. 149; p. 128.
- Peterson, C. A., Chicago, Ill. Ventilator. No. 934,460; Sept. 21; Sp. p. 3013; Gaz. vol. 146; p. 525.
- Peterson, C. C., Sheridan township, Washington county, Nebr. Automatic windmill-regulator. No. 941,647; Nov. 30; Sp. p. 7026; Gaz. vol. 148; p. 1189.
- Peterson, C. E. (See Peterson, G. P., C. E. and A. A.)
- Peterson, C. F., Schenectady, N. Y., assignor to General Electric Company. Making insulating fabrics. No. 940,188; Nov. 16; Sp. p. 3862; Gaz. vol. 148; p. 656.
- Peterson, C. G., West Duluth, Minn. Latch-operating device. No. 930,222; Aug. 3; Sp. p. 1231; Gaz. vol. 145; p. 203.
- Peterson, C. H., Davenport, Iowa. Shade and curtain hanger. No. 908,799; Jan. 5; Sp. p. 766; Gaz. vol. 138; p. 121.
- Peterson, C. H., Westbrook, Me. Chain-tightener. No. 934,348; Sept. 14; Sp. p. 2781; Gaz. vol. 146; p. 463.
- Peterson, C. J., assignor to Inventors Manufacturing Company, Chicago, Ill. Door-mat. No. 937,010; Oct. 12; Sp. p. 2922; Gaz. vol. 147; p. 486.
- Peterson, C. W., Minneapolis, Minn. Combined bath-tub and cabinet. No. 909,329; Jan. 12; Sp. p. 1827; Gaz. vol. 138; p. 328.
- Peterson, E. (See Larson, L., assignor.)
- Peterson, E., *et al.* (See Sletto, O. K., assignor.)
- Peterson, E., Wakefield, Mass. Sostenuto attachment for pianos. No. 939,309; Nov. 9; Sp. p. 1905; Gaz. vol. 148; p. 325.
- Peterson, E. A. (See Harrison and Peterson.)
- Peterson, E. A., Chicago, Ill. Water-heater. No. 925,501; June 22; Sp. p. 5033; Gaz. vol. 143; p. 888.
- Peterson, E. A., Rockford, Ill. Street-railway switch. No. 944,817; Dec. 28; Sp. p. 6015; Gaz. vol. 149; p. 1035.
- Peterson, E. H., assignor to Sartorial Pattern Co., Philadelphia, Pa. Block-pattern for garments. No. 928,691; July 20; Sp. p. 4138; Gaz. vol. 144; p. 720.
- Peterson, E. L., Willacochee, Ga. Cotton-gin. No. 937,856; Oct. 26; Sp. p. 4711; Gaz. vol. 147; p. 815.
- Peterson, E. M., Forest City, Iowa. Threshing-machine. No. 912,610; Feb. 16; Sp. p. 3286; Gaz. vol. 139; p. 589.
- Peterson, E. M., Forest City, Iowa. Pipe-wrench. No. 928,150; July 13; Sp. p. 2978; Gaz. vol. 144; p. 509.
- Peterson, F., Brooklyn, N. Y. Envelope. No. 911,263; Feb. 2; Sp. p. 482; Gaz. vol. 139; p. 82.
- Peterson, F. J., Alliance, Ohio. Credit-cabinet. No. 913,911; Mar. 2; Sp. p. 524; Gaz. vol. 140; p. 84.
- Peterson, F. O. (See Peterson, J. and F. O.)
- Peterson, G. (See Norman and Peterson.)
- Peterson, G., Oxfordville, Wis., and E. M. Bournonville, assignors to Davis-Bournonville Acetylene Development Company, Jersey City, N. J. Gaseous-fuel-burning welding-torch. No. 935,684; Oct. 5; Sp. p. 132; Gaz. vol. 147; p. 21.
- Peterson, G. A., Oakland, Cal. Reinforced molded building-block. No. 910,571; Jan. 26; Sp. p. 4388; Gaz. vol. 138; p. 804.
- Peterson, G. P., C. E., and A. A. Espanola, Wash. Adjustable hame. No. 921,561; May 11; Sp. p. 3006; Gaz. vol. 142; p. 516.
- Peterson, H. L. E. (See Hanly, G. A., assignor.)
- Peterson, H. L. E., Elgin, Ill. Pressing device for push-nipple radiators. No. 942,210; Dec. 7; Sp. p. 790; Gaz. vol. 149; p. 128.
- Peterson, J., St. Paul, Minn. Hay and manure gatherer and loader. No. 912,611; Feb. 16; Sp. p. 3288; Gaz. vol. 139; p. 590.
- Peterson, J. and F. O., Detroit, Mich. Explosion-engine. No. 926,892; July 6; Sp. p. 390; Gaz. vol. 144; p. 63.
- Peterson, J. A. (See Flessa, G., assignor.)
- Peterson, J. A., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Door check and closer. No. 943,160; Dec. 14; Sp. p. 2438; Gaz. vol. 149; p. 414.
- Peterson, J. G., assignor to Arrow Electric Company, Hartford, Conn. Movable contact for electric switches. No. 922,033; May 18; Sp. p. 4005; Gaz. vol. 142; p. 700.
- Peterson, J. G., assignor to Arrow Electric Company, Hartford, Conn. Push-button electric switch. No. 922,034; May 18; Sp. p. 4006; Gaz. vol. 142; p. 700.
- Peterson, J. G., assignor to Arrow Electric Company, Hartford, Conn. Electric switch. No. 935,226; Sept. 28; Sp. p. 4523; Gaz. vol. 146; p. 805.
- Peterson, J. G., assignor to Arrow Electric Company, Hartford, Conn. Pendant switch. No. 937,857; Oct. 26; Sp. p. 4713; Gaz. vol. 147; p. 815.
- Peterson, J. G., assignor to Arrow Electric Company, Hartford, Conn. Electric-switch mechanism. No. 937,957; Oct. 26; Sp. p. 4911; Gaz. vol. 147; p. 848.
- Peterson, J. G., assignor to Arrow Electric Company, Hartford, Conn. Electric-switch handle. No. 941,534; Nov. 30; Sp. p. 6806; Gaz. vol. 148; p. 1153.
- Peterson, J. Y., San Luis Obispo, Cal. Wax-extractor. No. 914,874; Mar. 9; Sp. p. 2567; Gaz. vol. 140; p. 428.
- Peterson, L. C., Osage City, Kans. Manure and dirt loader. No. 918,695; Apr. 20; Sp. p. 3619; Gaz. vol. 141; p. 641.
- Peterson, O. F., Brockton, Mass. Calk-plate for horseshoes. No. 924,580; June 8; Sp. p. 3183; Gaz. vol. 143; p. 520.
- Peterson, P., Gulliver, Mich. Rail. No. 937,643; Oct. 19; Sp. p. 4255; Gaz. vol. 147; p. 726.
- Peterson, P., South Bend, Ind. Valve-spring lifter. No. 944,149; Dec. 21; Sp. p. 4551; Gaz. vol. 149; p. 780.



*Alphabetical list of patentees—Continued.*

- Peterson, P. J., Oakland, Cal. Electrical insect-destroyer. No. 914,875; Mar. 9; Sp. p. 2569; Gaz. vol. 140; p. 429.  
 Peterson, P. J., Oakland, Cal. Liquid-measuring device. No. 919,943; Apr. 27; Sp. p. 6379; Gaz. vol. 141; p. 1090.  
 Peterson, P. R. (See Cox and Peterson.)  
 Peterson, P. S., Ephraim, Utah. Operating attachment for screw-drivers, &c. No. 928,003; July 13; Sp. p. 2698; Gaz. vol. 144; p. 460.  
 Peterson, V., Arlington, N. J. Turbine. No. 935,322; Sept. 28; Sp. p. 4720; Gaz. vol. 146; p. 837.  
 Peterson, W. J., New York, N. Y. Decorating glass. No. 934,094; Sept. 14; Sp. p. 2294; Gaz. vol. 146; p. 377.  
 Peticore, A., Sedro Woolley, Wash. Adjustable frame. No. 933,388; Sept. 7; Sp. p. 807; Gaz. vol. 146; p. 125.  
 Petigor, M. H., New York, N. Y. Dispensing-pump. No. 923,201; June 1; Sp. p. 171; Gaz. vol. 143; p. 28.  
 Petit, A., and G. de Berchoux, Lyon, France. Hand-press for raw meat. No. 934,209; Sept. 14; Sp. p. 2523; Gaz. vol. 146; p. 416.  
 Petit, H. H. (See Bartholomäus, R., assignor.)  
 Petit, J. A., Seattle, Wash. Double self-reporting calipers. No. 915,473; Mar. 16; Sp. p. 3738; Gaz. vol. 140; p. 650.  
 Petley, B. H., Seattle, Wash. Fluid-pressure regulator. No. 942,042; Nov. 30; Sp. p. 7858; Gaz. vol. 148; p. 1324.  
 Peto, J. T., assignor to S. T. Walkup, New York, N. Y. Roll-renewing attachment for printing-presses. No. 940,272; Nov. 16; Sp. p. 4025; Gaz. vol. 148; p. 686.  
 Petracchi, P., Varese, Italy. Detachable rim for pneumatic tires. No. 944,906; Dec. 28; Sp. p. 6198; Gaz. vol. 149; p. 1066.  
 Petracek, J., administrator. (See Kolsky, A.)  
 Petrel, A., Buenos Ayres, Argentina. Abdominal bandage. No. 934,625; Sept. 21; Sp. p. 3335; Gaz. vol. 146; p. 580.  
 Petrelli, J., assignor to Snow & Petrelli Mfg. Co., New Haven, Conn. Marine reversing-gear. No. 937,090; Oct. 19; Sp. p. 3088; Gaz. vol. 147; p. 543.  
 Petrelli, J., assignor to Snow & Petrelli Mfg. Co., New Haven, Conn. Reversing mechanism. No. 937,091; Oct. 19; Sp. p. 3091; Gaz. vol. 147; p. 543.  
 Petri, A. P. (See Martin and Petri.)  
 Petri, G. H., Boston, Mass. Forming-machine for dough. No. 936,660; Oct. 12; Sp. p. 2240; Gaz. vol. 147; p. 372.  
 Petri, G. H., Boston, Mass. Forming-machine for dough. No. 936,661; Oct. 12; Sp. p. 2242; Gaz. vol. 147; p. 372.  
 Petri, G. H., Boston, Mass. Forming-machine for dough. No. 941,338; Nov. 23; Sp. p. 6361; Gaz. vol. 148; p. 1064.  
 Petri-Palmedo, D., Hoboken, N. J. Acoustic lens. No. 920,387; May 4; Sp. p. 611; Gaz. vol. 142; p. 97.  
 Petri, W. J., Milwaukee, assignor to Milwaukee Stamping Co., West Allis, Wis. Hinge for traveling-bags. No. 941,040; Nov. 23; Sp. p. 5734; Gaz. vol. 148; p. 968.  
 Petrie, C. J., Cleveland, Ohio. Onion-topping machine. No. 926,286; June 29; Sp. p. 6701; Gaz. vol. 143; p. 1182.  
 Petrie, J., Rossland, British Columbia, Canada. Drilling-machine. No. 917,484; Apr. 6; Sp. p. 1034; Gaz. vol. 141; p. 180.  
 Petrie, J. B., and R. C. Rebholz, Tulsa, Okla. Rug-clamp. No. 913,159; Feb. 23; Sp. p. 4399; Gaz. vol. 139; p. 795.  
 Petrie, W. E., assignor to W. & E. T. Fitch Co., New Haven, Conn. Sash-lock. No. 910,850; Jan. 26; Sp. p. 4942; Gaz. vol. 138; p. 892.  
 Petrillo, J., Boston, Mass. Clock. No. 936,352; Oct. 12; Sp. p. 1554; Gaz. vol. 147; p. 266.  
 Petrowsky, A., New Haven, Conn. Platform-scale. No. 919,760; Apr. 27; Sp. p. 5987; Gaz. vol. 141; p. 1029.  
 Petsche, G. B., assignor to Southwark Foundry & Machine Company, Philadelphia, Pa. Admission-valve for gas-engines. No. 909,214; Jan. 12; Sp. p. 1612; Gaz. vol. 138; p. 290.  
 Petsche, G. B., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Blowing-engine. No. 912,486; Feb. 16; Sp. p. 3011; Gaz. vol. 139; p. 544.  
 Petsche, G. B., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Valve-actuating mechanism. No. 925,836; June 22; Sp. p. 5771; Gaz. vol. 143; p. 999.  
 Petsche, G. B., assignor to Southwark Foundry & Machine Company, Philadelphia, Pa. Adjustable bearing for valves. No. 926,762; July 6; Sp. p. 112; Gaz. vol. 144; p. 18.  
 Petsche, G. B., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Condenser. No. 933,849; Sept. 14; Sp. p. 1814; Gaz. vol. 146; p. 299.  
 Petsche, G. B., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Gas-engine admission-valve. No. 935,323; Sept. 28; Sp. p. 4721; Gaz. vol. 146; p. 837.  
 Pett, W., Muskegon, Mich. Auxiliary heater for stoves. No. 912,883; Feb. 16; Sp. p. 3848; Gaz. vol. 139; p. 678.  
 Pettée, O. E., Rockland, Me. Battery connection. No. 924,826; June 15; Sp. p. 3723; Gaz. vol. 143; p. 637.  
 Petter, E. W., London, England. Piston packing-ring. No. 929,484; July 27; Sp. p. 5756; Gaz. vol. 144; p. 1010.  
 Pettersen, C. A., Kenyon, Minn. Washing-machine. No. 910,570; Jan. 26; Sp. p. 4387; Gaz. vol. 138; p. 804.  
 Petterson, J., Steubenville, Ohio. Ratchet-drill. No. 922,186; May 18; Sp. p. 4298; Gaz. vol. 142; p. 749.  
 Petterson, L., Chicago, Ill. Explosive-engine. No. 927,004; July 6; Sp. p. 620; Gaz. vol. 144; p. 101.  
 Petterson, O. T. (See Glasrud and Anderson, assignors.)  
 Pettet Electrical Indicator Signal Company. (See Pettet, G. W., assignor.)  
 Pettet, G. W., assignor to Pettet Electrical Indicator Signal Company, Alexandria, Va. Electric semaphore-signal. No. 913,974; Mar. 2; Sp. p. 684; Gaz. vol. 140; p. 106.  
 Pettibone, H. (See Loomis and Pettibone.)  
 Pettibone, Mulliken & Co. (See Strom, A. A., assignor.)  
 Pettibone, Mulliken & Company. (See Strom, E. N., assignor.)  
 Peticore, A., Sedro Woolley, Wash. Turbine. No. 910,228; Jan. 19; Sp. p. 3639; Gaz. vol. 138; p. 661.  
 Pettigrew, H. N., New Orleans, La. Concrete block. No. 914,507; Mar. 9; Sp. p. 1788; Gaz. vol. 140; p. 307.  
 Pettis, C. D., assignor to National Brake Shoe Company, Chicago, Ill. Brake-shoe. No. 924,930; June 15; Sp. p. 3932; Gaz. vol. 143; p. 672.  
 Pettis, C. D., assignor to National Brake Shoe Company, Chicago, Ill. Brake-shoe. No. 925,837; June 22; Sp. p. 5773; Gaz. vol. 143; p. 999.  
 Pettis, C. D., assignor to National Brake Shoe Company, Chicago, Ill. Brake-shoe. No. 935,053; Sept. 28; Sp. p. 4184; Gaz. vol. 146; p. 749.  
 Pettit, J. D., St. Louis, Mo. Animal-trap. No. 938,397; Oct. 26; Sp. p. 5886; Gaz. vol. 147; p. 998.  
 Petty, J. P. (See Pink and Petty.)  
 Pevear, J. S., Schenectady, N. Y., assignor to General Electric Company. Relay and making the same. No. 923,202; June 1; Sp. p. 175; Gaz. vol. 143; p. 28.  
 Peyton, J. E. (See Kramer, H. H., assignor.)  
 Pfaff, A. J., assignor to Emerson Electric Manufacturing Company, St. Louis, Mo. Commutator for motors. No. 912,612; Feb. 16; Sp. p. 3291; Gaz. vol. 139; p. 590.  
 Pfahl, E. G., et al. (See Kendrick, S., assignor.)  
 Pfalzgraf, C. F., Baltimore, Md. Handle for dish-pans. No. 933,487; Sept. 7; Sp. p. 1088; Gaz. vol. 146; p. 156.  
 Pfalzgraf, C. F., Baltimore, Md. Safety trip device for power-operated machines. No. 941,726; Nov. 30; Sp. p. 7213; Gaz. vol. 148; p. 1216.  
 Pfänder, O., Brussels, Belgium. Automatically-governed carbureter. No. 920,642; May 4; Sp. p. 1107; Gaz. vol. 142; p. 180.  
 Pfänder, O., Brussels, Belgium. Brake-operating device. No. 920,643; May 4; Sp. p. 1109; Gaz. vol. 142; p. 181.  
 Pfanhauser, W., Leipzig, Germany. Mechanical arrangement for electroplating objects. No. 936,472; Oct. 12; Sp. p. 1848; Gaz. vol. 147; p. 307.  
 Pfannenstiel, A. (See Mayer and Pfannenstiel.)  
 Pfannenstiel, C., assignor to Theo. A. Kochs Company, Chicago, Ill. Paper-server for barbers' chairs. No. 936,030; Oct. 5; Sp. p. 908; Gaz. vol. 147; p. 137.  
 Pfarrer, W., Syracuse, N. Y. Land roller and pulverizer. No. 914,453; Mar. 9; Sp. p. 1690; Gaz. vol. 140; p. 289.  
 Pfau, A., assignor to Allis-Chalmers Company, Milwaukee, Wis. Nozzle. No. 915,214; Mar. 16; Sp. p. 3238; Gaz. vol. 140; p. 566.  
 Pfaudler Company. (See Finch, C. L., assignor.)  
 Pfaudler Company. (See Puffer, C. C., assignor.)  
 Pfautz, D. M., Germantown, assignor of one-third to W. H. Tigerman, Philadelphia, Pa. Twin steamship or vessel. No. 931,016; Aug. 10; Sp. p. 2907; Gaz. vol. 145; p. 489.  
 Pfautz, D. M., and J. L. Luckenbach, assignors to American Suspension Railway Company, Philadelphia, Pa. Guard-iron for elevated railroads. No. 915,374; Mar. 16; Sp. p. 3535; Gaz. vol. 140; p. 617.  
 Pfautz, D. M., and J. L. Luckenbach, assignors to American Suspension Railway Company, Philadelphia, Pa. Insulating third-rail support. No. 915,375; Mar. 16; Sp. p. 3538; Gaz. vol. 140; p. 618.  
 Pfautz, D. M., and J. L. Luckenbach, assignors to American Suspension Railway Company, Philadelphia, Pa. Laterally-adjustable rail-clamp. No. 915,376; Mar. 16; Sp. p. 3542; Gaz. vol. 140; p. 618.  
 Pfautz, D. M., and J. L. Luckenbach, assignors to American Suspension Railway Company, Philadelphia, Pa. Truss system for elevated railways. No. 915,377; Mar. 16; Sp. p. 3544; Gaz. vol. 140; p. 618.  
 Pfautz, D. M., and J. L. Luckenbach, assignors to American Suspension Railway Company, Philadelphia, Pa. Transverse truss system for elevated structures. No. 915,378; Mar. 16; Sp. p. 3548; Gaz. vol. 140; p. 619.  
 Pfeiffer, J., Spokane, Wash. Bundle-wiring pinners. No. 914,182; Mar. 2; Sp. p. 1135; Gaz. vol. 140; p. 177.  
 Pfeiffer, J., Spokane, Wash. Bundle-wiring machine. No. 914,363; Mar. 2; Sp. p. 1519; Gaz. vol. 140; p. 234.  
 Pfeifferkorn, W. L., A. P. Schloer, and A. H. Hammett, Milwaukee, Wis. Pedestal extension-table. No. 933,108; Sept. 7; Sp. p. 149; Gaz. vol. 146; p. 25.

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- Pfeifer, F. A., assignor of one-half to W. U. Colthar, Springfield, Ohio. Adjustable vise. No. 930,687; Aug. 10; Sp. p. 2181; Gaz. vol. 145; p. 381.
- Pfeifer, H. H., and F. M. Towles, Indianapolis, Ind. Medical irrigator. No. 935,227; Sept. 28; Sp. p. 4525; Gaz. vol. 146; p. 806.
- Pfeiffer Chemical Company. (See Kallenbach, E. E., assignor.)
- Pfeiffer Chemical Company. (See Pfeiffer, G. A., assignor.)
- Pfeiffer, F. W. (See Pfeiffer, H. E., assignor.)
- Pfeiffer, G., Jr., Merchantville, N. J. Water-purifying apparatus. No. 927,278; July 6; Sp. p. 1182; Gaz. vol. 144; p. 194.
- Pfeiffer, G. A., Philadelphia, Pa., assignor to Pfeiffer Chemical Company, St. Louis, Mo. Carton or box. No. 937,173; Oct. 19; Sp. p. 3277; Gaz. vol. 147; p. 571.
- Pfeiffer, H. E., assignor of one-half to F. W. Pfeiffer, Monroe, Wis. Machine for surfacing butcher-blocks. No. 921,451; May 11; Sp. p. 2793; Gaz. vol. 142; p. 480.
- Pfeiffer, J. A., Schenectady, N. Y. Relief mechanism for piston-valves. No. 910,851; Jan. 26; Sp. p. 4943; Gaz. vol. 138; p. 892.
- Pfeiffer, L. (See Burnet, Temple, and Pfeiffer.)
- Pfell, G., Chicago, Ill. Corset. No. 929,704; Aug. 3; Sp. p. 133; Gaz. vol. 145; p. 24.
- Pfennighausen, G. E., Wethersfield, and G. Okerfelt, Hartford, Conn. Article made from reeds, ratan, or the like. No. 938,696; Nov. 2; Sp. p. 547; Gaz. vol. 148; p. 85.
- Pfennighausen, T. (See Coffey, Pfennighausen, and Robinson.)
- Pfiester, C. J., assignor of one-third to J. B. Dryer and one-third to J. R. Vail, Birmingham, Ala. Safety-latch for sliding doors. No. 932,317; Aug. 24; Sp. p. 5690; Gaz. vol. 145; p. 970.
- Pfiffner, F. J., Dubuque, Iowa. Combination-suit. No. 932,640; Aug. 31; Sp. p. 6385; Gaz. vol. 145; p. 1101.
- Pfister, A., assignor to Fabrique des Longines Francillon & Cie., St. Imier, Switzerland. Watch. No. 922,809; May 25; Sp. p. 5583; Gaz. vol. 142; p. 980.
- Pfister, F. J., San Francisco, Cal. Attachment for headlights. No. 935,228; Sept. 28; Sp. p. 4527; Gaz. vol. 146; p. 806.
- Pfister, L. F., assignor to S. T. Walkup, New York, N. Y. Means for supplying rolls of paper to printing-presses. No. 940,273; Nov. 16; Sp. p. 4033; Gaz. vol. 148; p. 686.
- Pfager, H. M., assignor to Transom Draft Gear Company, St. Louis, Mo. Draft-gear for railway-cars. No. 911,264; Feb. 2; Sp. p. 484; Gaz. vol. 139; p. 83.
- Pfager, H. M., assignor to Transom Draft Gear Company, St. Louis, Mo. Car-underframe. No. 916,586; Mar. 30; Sp. p. 5964; Gaz. vol. 140; p. 1070.
- Pfager, H. M., assignor to Transom Draft Gear Company, St. Louis, Mo. Car-underframe. No. 926,074; June 22; Sp. p. 6251; Gaz. vol. 143; p. 1077.
- Pfager, H. M., assignor to Commonwealth Steel Company, St. Louis, Mo. Air-brake-cylinder attachment to railway-cars or the like. No. 917,891; Apr. 13; Sp. p. 1871; Gaz. vol. 141; p. 341.
- Pfager, H. M., assignor to Commonwealth Steel Company, St. Louis, Mo. Casting metallic members. No. 942,928; Dec. 14; Sp. p. 1918; Gaz. vol. 149; p. 334.
- Pfager, H. M., assignor to Double Body Bolster Company, St. Louis, Mo. Car-frame. No. 929,705; Aug. 3; Sp. p. 134; Gaz. vol. 145; p. 24.
- Pfanz, E. G. (See Pfanz, J., assignor.)
- Pfanz, J., assignor of one-half to E. G. Pfanz, Chicago, Ill. Refrigerator. No. 934,011; Sept. 14; Sp. p. 2122; Gaz. vol. 146; p. 350.
- Pfanzler, J. C., assignor to Champion Tool Works Company, Cincinnati, Ohio. Double back gearing. No. 942,185; Dec. 7; Sp. p. 339; Gaz. vol. 149; p. 52.
- Pfasterer, G. S., Nashville, Tenn. Block-signal system. No. 913,557; Feb. 23; Sp. p. 5245; Gaz. vol. 139; p. 930.
- Pfeghar, F. P., New Haven, Conn. Mechanical seal. No. 919,761; Apr. 27; Sp. p. 5988; Gaz. vol. 141; p. 1029.
- Pfeghar, F. P., assignor to F. P. Pfeghar & Son, New Haven, Conn. Door-lock. No. 912,884; Feb. 16; Sp. p. 3849; Gaz. vol. 139; p. 678.
- Pfeghar, F. P., assignor to F. P. Pfeghar & Son, New Haven, Conn. Door-lock. No. 914,669; Mar. 9; Sp. p. 2147; Gaz. vol. 140; p. 360.
- Pfeghar, F. P., assignor to F. P. Pfeghar & Son, New Haven, Conn. Door-lock. No. 914,670; Mar. 9; Sp. p. 2148; Gaz. vol. 140; p. 361.
- Pfeghar & Son, F. P. (See Pfeghar, F. P., assignor.)
- Pneumatic Syndicate. (See Collier, A. T., assignor.)
- Pneumatic Syndicate. (See Pfeumer, F., assignor.)
- Pfeumer, F., Dresden, Germany, assignor to Pneumatic Syndicate Limited, London, England. Manufacture of an elastic cellular or spongy material for use as a filling for vehicle-tires, cushions, buffers, upholstery, and the like. No. 932,318; Aug. 24; Sp. p. 5693; Gaz. vol. 145; p. 971.
- Pfuger, E., and E. Christensen, Portland, Oreg. Expander and flanger. No. 929,706; Aug. 3; Sp. p. 136; Gaz. vol. 145; p. 25.
- Pfuger, E., and E. Christensen, Portland, Oreg. Bung-bushing. No. 944,378; Dec. 28; Sp. p. 5028; Gaz. vol. 149; p. 885.
- Pfugh, A. T., Hoboken, N. J. Combined vise and thread-cutter. No. 913,912; Mar. 2; Sp. p. 525; Gaz. vol. 140; p. 84.
- Pfouts, L. S., Canton, Ohio, assignor, by mesne assignments, to Cyclone Drill Company. Hand-power drill. No. 911,755; Feb. 9; Sp. p. 1442; Gaz. vol. 139; p. 269.
- Pfouts, L. S., assignor to Miller Pasteurizing Machine Company, Canton, Ohio. Pasteurizer. No. 937,327; Oct. 19; Sp. p. 3585; Gaz. vol. 147; p. 620.
- Pfunder, E. L., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 928,882; July 20; Sp. p. 4510; Gaz. vol. 144; p. 786.
- Pfunder, E. L., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 938,507; Nov. 2; Sp. p. 130; Gaz. vol. 148; p. 21.
- Phares, W. R., Centerville, Iowa. Stovepipe-fastener. No. 923,441; June 1; Sp. p. 744; Gaz. vol. 143; p. 110.
- Phelan, J., deceased, Pittsburg, Pa.; N. A. Phelan, administrator. Device for securing railway-rails to metallic ties. No. 921,277; May 11; Sp. p. 2428; Gaz. vol. 142; p. 422.
- Phelan, J. E. (See Murch, J. E., assignor.)
- Phelan, J. M., assignor to Reinforced Concrete Pipe Co., Jackson, Mich. Reinforced-concrete water pipe or conduit. No. 912,885; Feb. 16; Sp. p. 3850; Gaz. vol. 139; p. 679.
- Phelan, J. M., assignor to Reinforced Concrete Pipe Company, Jackson, Mich. Reinforced-concrete pipe-coupling. No. 916,587; Mar. 30; Sp. p. 5967; Gaz. vol. 140; p. 1071.
- Phelan, M. D., Dorchester, Mass., assignor, by mesne assignments, to Manufacturers Machine Company, Montclair, N. J. Portable power-tacker. No. 938,508; Nov. 2; Sp. p. 133; Gaz. vol. 148; p. 21.
- Phelan, M. D., Boston, Mass., assignor, by mesne assignments, to Manufacturers Machine Company, Montclair, N. J. Machine for inserting metallic fastenings. No. 944,275; Dec. 28; Sp. p. 4798; Gaz. vol. 149; p. 848.
- Phelan, N. A., administrator. (See Phelan, J.)
- Phelps, B. T., Natchitoches, La. Adjustable book-support. No. 936,936; Oct. 12; Sp. p. 2767; Gaz. vol. 147; p. 463.
- Phelps, C., Oskaloosa, Iowa. Sectional boiler-furnace. No. 913,844; Mar. 2; Sp. p. 346; Gaz. vol. 140; p. 59.
- Phelps, E. S., New York, N. Y. Vibration-recorder for automobiles and other vehicles. No. 921,157; May 11; Sp. p. 2157; Gaz. vol. 142; p. 380.
- Phelps, F., Wellston, Okla., assignor to Thomas Gin Compress Company, Little Rock, Ark. Cotton-folder. No. 931,474; Aug. 17; Sp. p. 3904; Gaz. vol. 145; p. 674.
- Phelps, F. A., Newark, N. J. Valve-inserting machine. No. 940,356; Nov. 16; Sp. p. 4237; Gaz. vol. 148; p. 714.
- Phelps, F. A., Laconia, N. H. Dry valve. No. 942,100; Dec. 7; Sp. p. 137; Gaz. vol. 149; p. 22.
- Phelps, F. A., Newark, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Mold-forming machine. No. 915,215; Mar. 16; Sp. p. 3240; Gaz. vol. 140; p. 566.
- Phelps, J., Shelbyville, Ill. Fastening device for legs of tables and chairs. No. 930,793; Aug. 10; Sp. p. 2401; Gaz. vol. 145; p. 416.
- Phelps, J. W., administrator. (See Phelps, W. J.)
- Phelps, J. W., Detroit, Mich. Advertising device. No. 913,048; Feb. 23; Sp. p. 4186; Gaz. vol. 139; p. 758.
- Phelps, J. W., assignor to Electro-Ad Company, Detroit, Mich. Combined lamp-socket and automatic switch. No. 937,858; Oct. 26; Sp. p. 4715; Gaz. vol. 147; p. 815.
- Phelps, R. N. R., Montclair, N. J., assignor to R. Byrnes, Philadelphia, Pa. Subway-railway construction. No. 917,653; Apr. 6; Sp. p. 1342; Gaz. vol. 141; p. 237.
- Phelps, R. W., and W. L. Harding, Sioux City, Iowa. Flash-lamp. No. 917,485; Apr. 6; Sp. p. 1035; Gaz. vol. 141; p. 181.
- Phelps, W. J., Baltimore, Md. Can-fluxing machine. No. 935,229; Sept. 28; Sp. p. 4529; Gaz. vol. 146; p. 807.
- Phelps, W. J., deceased, Detroit, Mich.; J. W. Phelps, administrator. Double-circuit flasher. No. 921,625; May 11; Sp. p. 3149; Gaz. vol. 142; p. 538.
- Phelps, W. R., Kansas City, Mo. Excelsior-machine. No. 919,454; Apr. 27; Sp. p. 5356; Gaz. vol. 141; p. 926.
- Phelps, W. S., Muncie, Ind. Rotary stand-pipe joint. No. 943,267; Dec. 14; Sp. p. 2654; Gaz. vol. 149; p. 450.
- Phenix, W. F., Tahoka, Tex. Measuring instrument. No. 936,157; Oct. 5; Sp. p. 1171; Gaz. vol. 147; p. 175.
- Pheysey, R. G., Ontario, Cal. Contact-plug for electric irons, heating appliances, and the like. No. 911,439; Feb. 2; Sp. p. 796; Gaz. vol. 139; p. 139.
- Phibbs, W. R. (See Hine and Phibbs.)



*Alphabetical list of patentees—Continued.*

- Philadelphia Drying Machinery Company. (See Allsop and Sibson, assignors.)  
 Philadelphia Pipe Bending Company. (See Schneider, L. C., assignor.)  
 Philadelphia Steel & Wire Co. (See Wedmore, D. A., assignor.)  
 Philbrick, A. L., Melrose, Mass. Grocer's or other merchant's call-signal. No. 937,264; Oct. 19; Sp. p. 3475; Gaz. vol. 147; p. 600.  
 Philia, V., and H. Booker, California, Pa. Crib. No. 909,113; Jan. 5; Sp. p. 1408; Gaz. vol. 138; p. 224.  
 Philip, A. F., Asbury Park, N. J. Plumbing smoke-tester. No. 933,922; Sept. 14; Sp. p. 1959; Gaz. vol. 146; p. 323.  
 Philip Carey Manufacturing Company. (See Moeller, W. J., assignor.)  
 Philip, E. R., Atlanta, Ga., assignor to American Can Company, New York, N. Y. Turpentine-collecting apron and receptacle. No. 913,845; Mar. 2; Sp. p. 349; Gaz. vol. 140; p. 59.  
 Philip Smith Manufacturing Company. (See Widmer, C. J., assignor.)  
 Philipp, C., Jackson, Mich. Lathe attachment for turning bearings. No. 922,327; May 18; Sp. p. 4578; Gaz. vol. 142; p. 795.  
 Philipp, C., assignor to Chemische Fabrik von Heyden Aktiengesellschaft, Dresden, Germany. Producing isobornyl esters. No. 919,762; Apr. 27; Sp. p. 5990; Gaz. vol. 141; p. 1030.  
 Philipp, E. L., Milwaukee, Wis. Draft and buffing gearing for railway-cars. No. 933,201; Sept. 7; Sp. p. 377; Gaz. vol. 146; p. 59.  
 Philipp, K., Magdeburg, Germany. Continuous juice extraction by diffusion. No. 934,349; Sept. 14; Sp. p. 2782; Gaz. vol. 146; p. 463.  
 Philippi, T. F., East St. Louis, Ill. Clutch. No. 920,176; May 4; Sp. p. 165; Gaz. vol. 142; p. 26.  
 Philippine Hemp Machine Co. (See Gillies, J. S., assignor.)  
 Philpoteaux, A., Rheims, France. Machine for making glass bottles and like articles. No. 944,691; Dec. 28; Sp. p. 5738; Gaz. vol. 149; p. 993.  
 Philipps, A., Frankfort-on-the-Main, Germany. Tracker-board for pneumatic musical instruments. No. 908,492; Jan. 5; Sp. p. 113; Gaz. vol. 138; p. 22.  
 Philips, E., Columbus, Ohio, assignor to C. S. Davis, Philadelphia, Pa. Split metal pulley. No. 940,720; Nov. 23; Sp. p. 5045; Gaz. vol. 148; p. 862.  
 Philips, E. S., assignor to American Road Machine Company, Kennett Square, Pa. Rock-crusher. No. 943,455; Dec. 14; Sp. p. 3057; Gaz. vol. 149; p. 513.  
 Philipski, J., Detroit, Mich. Forge. No. 937,265; Oct. 19; Sp. p. 3477; Gaz. vol. 147; p. 601.  
 Philippy, D. W., Kalamazoo, Mich. Washing-machine. No. 927,069; July 6; Sp. p. 783; Gaz. vol. 144; p. 124.  
 Phillips, A. M., Le Roy, N. Y. Air-chamber for liquid-spraying devices. No. 931,215; Aug. 17; Sp. p. 3365; Gaz. vol. 145; p. 585.  
 Phillips, A. P., Haverhill, assignor to Crosby Steam Gage and Valve Company, Boston, Mass. Recording-counter. No. 926,763; July 6; Sp. p. 115; Gaz. vol. 144; p. 19.  
 Phillips, B., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Take-up for sewing-machines. No. 944,498; Dec. 28; Sp. p. 5316; Gaz. vol. 149; p. 926.  
 Phillips, C., Meridian, Miss. Attachment for feed-water injectors. No. 939,310; Nov. 9; Sp. p. 1907; Gaz. vol. 148; p. 325.  
 Phillips, C., Meridian, Miss., assignor to one-third to G. Groobey, Atlanta, Ga. Car-brake. No. 934,568; Sept. 21; Sp. p. 3206; Gaz. vol. 146; p. 559.  
 Phillips, C. B., Red Wing, Minn. Holder for lap-ropes. No. 924,188; June 8; Sp. p. 2383; Gaz. vol. 143; p. 391.  
 Phillips, C. E., Indianapolis, Ind. Concrete-block machine. No. 939,543; Nov. 9; Sp. p. 2421; Gaz. vol. 148; p. 401.  
 Phillips, C. G. (See Willour, L., assignor.)  
 Phillips, C. H., Maplewood, Mass., assignor to Phillips Flushing Tank Company, Portland, Me. Flushing-valve for water-closets. No. 929,007; July 27; Sp. p. 4768; Gaz. vol. 144; p. 853.  
 Phillips, C. L., Rondout, N. Y. Rotary tooth-brush. No. 931,143; Aug. 17; Sp. p. 3210; Gaz. vol. 145; p. 560.  
 Phillips, C. S., Chicago, Ill. Ventilated cooking-vessel cover. No. 941,041; Nov. 23; Sp. p. 5735; Gaz. vol. 148; p. 968.  
 Phillips, D. W., Spraggs, Pa. Quilting-frame. No. 944,105; Dec. 21; Sp. p. 4444; Gaz. vol. 149; p. 766.  
 Phillips, E. C. (See Killen and Phillips.)  
 Phillips, E. C., New York, N. Y., assignor to Lamson Consolidated Store Service Company. Apparatus for transferring cash, parcels, &c. No. 913,975; Mar. 2; Sp. p. 688; Gaz. vol. 140; p. 107.  
 Phillips, E. U., Portland, Oreg., assignor to one-half to F. J. McHenry. Stovepipe. No. 915,039; Mar. 9; Sp. p. 2844; Gaz. vol. 140; p. 481.  
 Phillips, F., Newark, N. J. Dash-pot. No. 929,008; July 27; Sp. p. 4771; Gaz. vol. 144; p. 853.  
 Phillips, F. R., Plainfield, N. J. Tread-surface. No. 917,354; Apr. 6; Sp. p. 811; Gaz. vol. 141; p. 139.  
 Phillips, F. R., Plainfield, N. J. Tread-surface. No. 917,355; Apr. 6; Sp. p. 812; Gaz. vol. 141; p. 139.  
 Phillips, F. R., and R. G. Averill, assignors to Ohio Brass Company, Mansfield, Ohio. Valve. No. 931,797; Aug. 24; Sp. p. 4606; Gaz. vol. 145; p. 799.  
 Phillips Flushing Tank Company. (See Phillips, C. H., assignor.)  
 Phillips, G. W., Capelle, Cal. Nut-huller. No. 916,008; Mar. 23; Sp. p. 4826; Gaz. vol. 140; p. 854.  
 Phillips, G. W., assignor to Dey Time Register Company, Syracuse, N. Y. Registration regulation for time-recorders. No. 930,416; Aug. 10; Sp. p. 1595; Gaz. vol. 145; p. 289.  
 Phillips, H. D., Nottingham, Ohio. Metallic cross-tie and rail-fastener. No. 924,931; June 15; Sp. p. 3934; Gaz. vol. 143; p. 672.  
 Phillips, H. J., Bayswater, London, England. Tire-tool. No. 934,461; Sept. 21; Sp. p. 3014; Gaz. vol. 146; p. 525.  
 Phillips, H. S., Burlington, N. J. Foot-rest. No. 938,697; Nov. 2; Sp. p. 548; Gaz. vol. 148; p. 85.  
 Phillips, J., Bellaire, Ohio. Blasting device. No. 931,341; Aug. 17; Sp. p. 3646; Gaz. vol. 145; p. 629.  
 Phillips, J. B., Portland, Me. Trolley. No. 918,696; Apr. 20; Sp. p. 3621; Gaz. vol. 141; p. 641.  
 Phillips, J. C., Akron, Ohio. Switch mechanism and actuating means therefor. No. 913,427; Feb. 23; Sp. p. 4949; Gaz. vol. 139; p. 886.  
 Phillips, J. E. (See Park and Phillips.)  
 Phillips, J. F., Gorgona, Panama. Automatic alarm for refrigerator drip-pans. No. 939,311; Nov. 9; Sp. p. 1911; Gaz. vol. 148; p. 325.  
 Phillips, J. L., et al. (See Raders, J. F., assignor.)  
 Phillips, J. M. and R. F. Carrick, assignors to Phillips Mine and Mill Supply Company, Pittsburg, Pa. Running-gear for mine-cars. No. 928,066; July 13; Sp. p. 2830; Gaz. vol. 144; p. 482.  
 Phillips and J. Scott & Sons Limited, D. (See Boyd, J., assignor.)  
 Phillips, J. T. (See Klein, P. H., Jr., assignor.)  
 Phillips, J. W., Silver City, Nev. Centrifugal separator. No. 924,376; June 8; Sp. p. 2799; Gaz. vol. 143; p. 455.  
 Phillips, L. V., Westminster, S. C. Bottle. No. 931,216; Aug. 17; Sp. p. 3366; Gaz. vol. 145; p. 585.  
 Phillips Mine and Mill Supply Company. (See Fleming, J. J., assignor.)  
 Phillips Mine and Mill Supply Company. (See Phillips, J. M. and R. F., assignors.)  
 Phillips, N. C., assignor to Russia Cement Company, Gloucester, Mass. Package for liquid materials. No. 926,355; June 29; Sp. p. 6845; Gaz. vol. 143; p. 1204.  
 Phillips, O., Braymer, Mo. Wire-stretcher. No. 919,944; Apr. 27; Sp. p. 6381; Gaz. vol. 141; p. 1090.  
 Phillips, P., C. Dipierno, and S. Mongell, Newhaven, Pa. Toy. No. 943,456; Dec. 14; Sp. p. 3060; Gaz. vol. 149; p. 514.  
 Phillips, R. S., M. Harris, and J. F. Dearing; said Phillips assignor to H. E. Butler, Jamestown, N. Y. Ball-bearing. No. 925,376; June 15; Sp. p. 4784; Gaz. vol. 143; p. 817.  
 Phillips, T. M., assignor to one-third to Youngstown Steel Company and one-third to E. L. Ford, Youngstown, Ohio. Utilizing furnace flue-dust. No. 919,073; Apr. 20; Sp. p. 4378; Gaz. vol. 141; p. 764.  
 Phillips, T. M., assignor to one-third to Youngstown Steel Company and one-third to E. L. Ford, Youngstown, Ohio. Mixing-machine. No. 919,074; Apr. 20; Sp. p. 4379; Gaz. vol. 141; p. 765.  
 Phillips, W. A., St. Louis, Mo., assignor to Rheolite Company, Milwaukee, Wis. Composition of matter and making the same. No. 933,722; Sept. 7; Sp. p. 1557; Gaz. vol. 146; p. 236.  
 Phillips, W. A., assignor to himself, F. M. Rumbold, and A. V. Reyburn, Jr., St. Louis, Mo. Composition of matter and making the same. No. 933,723; Sept. 7; Sp. p. 1559; Gaz. vol. 146; p. 236.  
 Phillips, W. A., and F. Hutchins, London, England. Making insulating-coverings for electric conductors. No. 941,810; Nov. 30; Sp. p. 7407; Gaz. vol. 148; p. 1245.  
 Phillips, W. E., Collbran, Colo. Wooden-stave pipe. No. 923,294; June 1; Sp. p. 423; Gaz. vol. 143; p. 60.  
 Phillips, W. E., Jacksonville, Fla. Ink-fountain attachment for type-writers. No. 926,764; July 6; Sp. p. 117; Gaz. vol. 144; p. 19.  
 Phillips, W. H., Fairmount, N. D. Dumping-vehicle. No. 940,721; Nov. 23; Sp. p. 5047; Gaz. vol. 148; p. 862.  
 Phillips, W. L. (See Handy and Phillips.)  
 Phillips, W. N., Reno, Nev. Service connection for pipe-mains. No. 937,958; Oct. 26; Sp. p. 4913; Gaz. vol. 147; p. 848.  
 Philipson, E., assignor to one-half to T. G. Walpuski, New York, N. Y. Valve. No. 927,593; July 13; Sp. p. 1829; Gaz. vol. 144; p. 325.  
 Philipson, J., New York, N. Y. Combined settee bed and couch. No. 910,952; Jan. 26; Sp. p. 5138; Gaz. vol. 138; p. 926.  
 Philipson, J., New York, N. Y. Settee-bed. No. 914,671; Mar. 9; Sp. p. 2149; Gaz. vol. 140; p. 361.  
 Philipson, J., Chicago, Ill. Settee-bed. No. 927,811; July 13; Sp. p. 2306; Gaz. vol. 144; p. 398.  
 Philo, W. E., Stockton, Cal. Pencil-holder. No. 940,822; Nov. 23; Sp. p. 5281; Gaz. vol. 148; p. 896.  
 Philp, C. von. (See Waern and Philp.)  
 Philp, C. von, New York, N. Y. Feeding mechanism. No. 924,103; June 8; Sp. p. 2160; Gaz. vol. 143; p. 361.  
 Philpott, T. S., Wellington, New Zealand. Gas-burner. No. 938,019; Oct. 26; Sp. p. 5050; Gaz. vol. 147; p. 868.

*Alphabetical list of patentees—Continued.*

- Phinney, C. H., trustee. (See French and Hiller, assignors.)  
 Phinney, E. A., Pawtucket, R. I. Separable button. No. 918,588; Apr. 20; Sp. p. 3319; Gaz. vol. 141; p. 603.  
 Phinney, J. B., Tampa, Fla. Curtain-pole. No. 914,876; Mar. 9; Sp. p. 2570; Gaz. vol. 140; p. 429.  
 Phinny, C. W., Brownwood, Tex. Bucket-jack. No. 929,325; July 27; Sp. p. 5476; Gaz. vol. 144; p. 961.  
 Phinny, C. W., Brownwood, Tex. Window-glass fastener. No. 936,158; Oct. 5; Sp. p. 1172; Gaz. vol. 147; p. 178.  
 Phinny, T. G., Philadelphia, Pa. Tank-car. No. 911,607; Feb. 9; Sp. p. 1140; Gaz. vol. 139; p. 220.  
 Phipps, D. L., Chicago, Ill. Sliding-door hanger. No. 943,784; Dec. 21; Sp. p. 3773; Gaz. vol. 149; p. 657.  
 Phipps, J. H., Wickliffe, Ky. Water-gate. No. 942,460; Dec. 7; Sp. p. 910; Gaz. vol. 149; p. 146.  
 Phipps, W. A., Fay, Okla. Cotton-picker. No. 940,274; Nov. 16; Sp. p. 4043; Gaz. vol. 148; p. 687.  
 Phono Pneumatic Company. (See Stephenson, B. S., assignor.)  
 Phreaner, S. J., Olney, Pa. Ash-sifter. No. 943,457; Dec. 14; Sp. p. 3061; Gaz. vol. 149; p. 514.  
 Pianarosa, L. J., Boston, Mass. Machine for cutting rubber rings. No. 913,558; Feb. 23; Sp. p. 5254; Gaz. vol. 139; p. 930.  
 Pianko, M., assignor to R. A. and W. F. Neilson, Chicago, Ill. Imitation leather. No. 915,882; Mar. 23; Sp. p. 4584; Gaz. vol. 140; p. 814.  
 Piasek, A., and H. Cohn, New York, N. Y. Wire-frame machine. No. 927,163; July 6; Sp. p. 960; Gaz. vol. 144; p. 156.  
 Picard, M., Paris, France. Measuring instrument. No. 931,475; Aug. 17; Sp. p. 3910; Gaz. vol. 145; p. 674.  
 Piccot, H. W., Scarsdale, N. Y. Sign-letter. No. 929,874; Aug. 3; Sp. p. 534; Gaz. vol. 145; p. 86.  
 Picher Lead Company. (See Hughes, L. S., assignor.)  
 Picher, O. H., Joplin, Mo. Treating argentiferous lead ores. No. 920,388; May 4; Sp. p. 613; Gaz. vol. 142; p. 97.  
 Pichler, S., Brooklyn, N. Y. Scaffold. No. 742,347; Dec. 7; Sp. p. 672; Gaz. vol. 149; p. 108.  
 Pickard, G. W., Amesbury, Mass. Oscillation detector and rectifier. No. 912,613; Feb. 16; Sp. p. 3292; Gaz. vol. 139; p. 590.  
 Pickard, G. W., Amesbury, Mass. Oscillation-receiver. No. 912,726; Feb. 16; Sp. p. 3560; Gaz. vol. 139; p. 620.  
 Pickard, G. W., Amesbury, Mass. Oscillation-receiver. No. 924,827; June 15; Sp. p. 3724; Gaz. vol. 143; p. 637.  
 Pickard, G. W., Amesbury, Mass. Oscillation device. No. 933,263; Sept. 7; Sp. p. 536; Gaz. vol. 146; p. 82.  
 Pickard, O. L., Columbus, Ohio. Bowling-alley finishing and leveling machine. No. 939,544; Nov. 9; Sp. p. 2423; Gaz. vol. 148; p. 402.  
 Pickard, W. M., Weatherford, Tex. Hay-press. No. 920,992; May 11; Sp. p. 1828; Gaz. vol. 142; p. 325.  
 Pickel, E. (See Barnett and Pickel.)  
 Pickel, E., Portland, Oreg. Annunciator. No. 919,377; Apr. 27; Sp. p. 5188; Gaz. vol. 141; p. 899.  
 Pickel, H. C., Mankato, Minn. Quack-grass exterminator. No. 915,110; Mar. 16; Sp. p. 3015; Gaz. vol. 140; p. 532.  
 Picken, A., Norfolk, Va. Sorting-machine. No. 941,270; Nov. 23; Sp. p. 6232; Gaz. vol. 148; p. 1045.  
 Pickens, W. A. (See Henderson, C. O., assignor.)  
 Picker, J. C., et al. (See Gehring, P. A., assignor.)  
 Picker, L. F., et al. (See Gehring, P. A., assignor.)  
 Pickering, B., assignor to E. G. Pickering, Dayton, Ohio. Water-motor pump. No. 928,215; July 13; Sp. p. 3126; Gaz. vol. 144; p. 532.  
 Pickering, E. G. (See Pickering, B., assignor.)  
 Pickering, G. H., Pawtucket, R. I. Rail-joint. No. 918,467; Apr. 13; Sp. p. 3047; Gaz. vol. 141; p. 536.  
 Pickering Governor Co. (See Hall, S. S., assignor.)  
 Pickert, V. F., Atlanta, Ga. Go-cart. No. 918,362; Apr. 13; Sp. p. 2836; Gaz. vol. 141; p. 502.  
 Pickett, A. B., Opelousas, La. Gate. No. 923,884; June 8; Sp. p. 1755; Gaz. vol. 143; p. 292.  
 Pickett, D. M., assignor of three-fourths to C. F. Burton, Detroit, Mich. Feed-regulator for powdered material. No. 914,973; Mar. 9; Sp. p. 2728; Gaz. vol. 140; p. 459.  
 Pickett, E., Lawhon, La. Bleaching and preparing straw from the Southern palm. No. 926,765; July 6; Sp. p. 121; Gaz. vol. 144; p. 19.  
 Pickett, F. L., Rocky Ford, Colo. Transfer appliance for beet-dumps. No. 910,852; Jan. 26; Sp. p. 4945; Gaz. vol. 138; p. 893.  
 Pickford, A. (See Short, E. L., assignor.)  
 Pickhardt, E., Islington, Mass. Clasp. No. 917,791; Apr. 13; Sp. p. 1665; Gaz. vol. 141; p. 308.  
 Pickle, W. H., assignor of one-half to J. I. Melville, Sprague, Wash. Equalizer. No. 926,019; June 22; Sp. p. 6130; Gaz. vol. 143; p. 1058.  
 Pickles, B., Pawtucket, and F. Woodhead, Providence, R. I. Cap-spindle. No. 921,279; May 11; Sp. p. 2431; Gaz. vol. 142; p. 423.  
 Pickles, C. K., St. Louis, Mo., assignor to Pay-As-You-Enter Car Corporation, Jersey City, N. J. Passenger-car. No. 925,786; June 22; Sp. p. 5659; Gaz. vol. 143; p. 982.  
 Pickles, C. K., St. Louis, Mo., assignor to J. G. Brill Company, Philadelphia, Pa. Passenger-car. No. 934,350; Sept. 14; Sp. p. 2784; Gaz. vol. 146; p. 463.  
 Pickop, G. B., assignor to P. & F. Corbin, New Britain, Conn. Door-knob. No. 927,427; July 6; Sp. p. 1460; Gaz. vol. 144; p. 242.  
 Pictet, R. P., Berlin, Germany. Apparatus for separating nitrogen and oxygen from mixtures containing them. No. 918,589; Apr. 20; Sp. p. 3320; Gaz. vol. 141; p. 604.  
 Piddington, W. W. (See Johnson, C. E., assignor.)  
 Pieced Stain Machinery Company. (See Anderson, F. L., assignor.)  
 Piepenbrink, P., Elberfeld, Germany. Machine for stretching yarn or textile threads. No. 914,454; Mar. 9; Sp. p. 1694; Gaz. vol. 140; p. 296.  
 Pieper, A. F. (See Pieper, O. H. and A. F.)  
 Pieper, H., Liege, Belgium. Mixed drive for auto-vehicles. No. 913,846; Mar. 2; Sp. p. 352; Gaz. vol. 140; p. 60.  
 Pieper, H., Liege, Belgium. Motor-vehicle. No. 937,859; Oct. 26; Sp. p. 4716; Gaz. vol. 147; p. 816.  
 Pieper, N., Liege, Belgium. Automatic pistol. No. 911,265; Feb. 2; Sp. p. 485; Gaz. vol. 139; p. 83.  
 Pieper, N., Liege, Belgium. Firearm. No. 927,070; July 6; Sp. p. 785; Gaz. vol. 144; p. 125.  
 Pieper, O. H., Rochester, N. Y. Extensible bracket. No. 913,049; Feb. 23; Sp. p. 4187; Gaz. vol. 139; p. 758.  
 Pieper, O. H. and A. F., Rochester, N. Y. Dental engine. No. 930,082; Aug. 3; Sp. p. 962; Gaz. vol. 145; p. 156.  
 Pieper, O. H. and A. F., Rochester, N. Y. Electric motor. No. 932,896; Aug. 31; Sp. p. 6897; Gaz. vol. 145; p. 1185.  
 Piepho, C. A., St. Louis, Mo., assignor to St. Louis Tin & Sheet Metal Working Company. Combined show-case and receptacle-cover. No. 935,054; Sept. 28; Sp. p. 4186; Gaz. vol. 146; p. 749.  
 Pierboni, G., Connellsville, Pa. Kiln. No. 937,644; Oct. 19; Sp. p. 4257; Gaz. vol. 147; p. 726.  
 Pierce, B. N., Indianapolis, Ind. Carbureter. No. 917,125; Apr. 6; Sp. p. 341; Gaz. vol. 141; p. 60.  
 Pierce, C. S. (See Parmenter, W. A., assignor.)  
 Pierce, C. S. (See Parmenter and Alden, assignors.)  
 Pierce, E. E., and L. W. Newton, assignors to Standard Horse Nail Company, New Brighton, Pa. Nail-finishing machine. No. 908,493; Jan. 5; Sp. p. 115; Gaz. vol. 138; p. 22.  
 Pierce, E. W. (See Pearson and Pierce.)  
 Pierce, F. A. (See McLain and Pierce.)  
 Pierce, F. A., Wheeling, W. Va. Automatic brake-applying mechanism. No. 931,798; Aug. 24; Sp. p. 4609; Gaz. vol. 145; p. 799.  
 Pierce, F. D., Farmington, Mont. Bolt-holder. No. 919,209; Apr. 20; Sp. p. 4633; Gaz. vol. 141; p. 808.  
 Pierce, F. J., McCook, Nebr. Spark-arrester. No. 909,660; Jan. 12; Sp. p. 2474; Gaz. vol. 138; p. 439.  
 Pierce, G. H., Melrose, Mass. Tag. No. 916,588; Mar. 30; Sp. p. 5968; Gaz. vol. 140; p. 1071.  
 Pierce, G. L., Manchester, N. H. Spinning-ring-holding apparatus. No. 920,082; Apr. 27; Sp. p. 6681; Gaz. vol. 141; p. 1136.  
 Pierce, G. L., New York, N. Y. Shoe for athletes. No. 921,452; May 11; Sp. p. 2795; Gaz. vol. 142; p. 480.  
 Pierce, G. L., New York, N. Y. Sewed shoe. No. 939,624; Nov. 9; Sp. p. 2608; Gaz. vol. 148; p. 429.  
 Pierce, G. L., and R. B. Nickerson, New York, N. Y., assignors to A. G. Spalding & Bros., Jersey City, N. J. Leg-guard for athletes. No. 909,215; Jan. 12; Sp. p. 1615; Gaz. vol. 138; p. 290.  
 Pierce, G. W., Cambridge, assignor to Massachusetts Wireless Equipment Company, Boston, Mass. Wireless telegraphy. No. 923,699; June 1; Sp. p. 1289; Gaz. vol. 143; p. 201.  
 Pierce, G. W., Cambridge, assignor to Massachusetts Wireless Equipment Company, Boston, Mass. Rectifier. No. 923,700; June 1; Sp. p. 1293; Gaz. vol. 143; p. 201.  
 Pierce, H. J. (See Drake and Pierce.)  
 Pierce, J. E., Benjamin, Tex. Cotton-picker. No. 918,902; Apr. 20; Sp. p. 4054; Gaz. vol. 141; p. 711.  
 Pierce, J. G., Salt Lake City, Utah. Bread-slicing machine. No. 935,925; Oct. 5; Sp. p. 697; Gaz. vol. 147; p. 102.  
 Pierce, J. J., Jr., Buffalo, N. Y. Metal railway-tie. No. 922,626; May 25; Sp. p. 5208; Gaz. vol. 142; p. 922.  
 Pierce, J. M., Owatonna, Minn. Feed-cup. No. 924,377; June 8; Sp. p. 2802; Gaz. vol. 143; p. 455.  
 Pierce, L. J., Pittsburg, Pa. Glass-severing tool. No. 909,451; Jan. 12; Sp. p. 2058; Gaz. vol. 138; p. 366.  
 Pierce, R. A., Kane, Pa. Pool-ball frame. No. 916,193; Mar. 23; Sp. p. 5163; Gaz. vol. 140; p. 914.  
 Pierce, W. A., Boston, Mass. Sewer-cleaning apparatus. No. 917,892; Apr. 13; Sp. p. 1872; Gaz. vol. 141; p. 342.  
 Pierce, W. H., and F. Aspin, Accrington, England. Picker-check for looms. No. 910,572; Jan. 26; Sp. p. 4391; Gaz. vol. 138; p. 805.  
 Pierini, P., Rome, Italy. Synchronizing apparatus. No. 941,891; Nov. 30; Sp. p. 7572; Gaz. vol. 148; p. 1274.  
 Pierman, A. N., Newark, assignor to New Jersey Patent Company, West Orange, N. J. Sound-modifier. No. 917,654; Apr. 6; Sp. p. 1345; Gaz. vol. 141; p. 237.  
 Pierman, A. N., Newark, assignor to New Jersey Patent Company, West Orange, N. J. Sound-reproducer. No. 940,051; Nov. 16; Sp. p. 3552; Gaz. vol. 148; p. 608.  
 Piéron, H., and W. Merkel, Remscheid, Germany. Elevator safety appliance. No. 923,574; June 1; Sp. p. 1026; Gaz. vol. 143; p. 158.



*Alphabetical list of patentees—Continued.*

- Pierpont, F. H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Mold-actuating mechanism for type-machines. No. 925,023; June 15; Sp. p. 4133; Gaz. vol. 143; p. 704.
- Pierpont, F. H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Type-casting machine. No. 925,024; June 15; Sp. p. 4136; Gaz. vol. 143; p. 704.
- Pierpont, F. H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Punch-cutting and matrix-cutting machine. No. 938,074; Oct. 26; Sp. p. 5164; Gaz. vol. 147; p. 887.
- Pierpont, F. H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Cutter-head mechanism for punch-cutting and like machines. No. 938,433; Oct. 26; Sp. p. 5957; Gaz. vol. 147; p. 1010.
- Pierpont, F. H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Cutter for punch-cutting machines. No. 938,434; Oct. 26; Sp. p. 5963; Gaz. vol. 147; p. 1011.
- Pierpont, F. H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Blank-holder for punch-cutting and like machines. No. 938,435; Oct. 26; Sp. p. 5965; Gaz. vol. 147; p. 1011.
- Pierpont, W. J., Jr., Savannah, Ga. Float for logs. No. 925,221; June 15; Sp. p. 4522; Gaz. vol. 143; p. 771.
- Pierron, A. R. (See Côte and Pierron.)
- Piers, C., Chicago, Ill. Antiseptic syringe. No. 911,523; Feb. 2; Sp. p. 953; Gaz. vol. 139; p. 166.
- Pierson, A. S., Morristown, N. J. Mailing-package. No. 909,330; Jan. 12; Sp. p. 1828; Gaz. vol. 138; p. 328.
- Pierson, F. W., Missoula, Mont. Windmill and clutch therefor. No. 930,794; Aug. 10; Sp. p. 2401; Gaz. vol. 145; p. 416.
- Pierson, G. M., Grafton, Nebr. Sprocket-chain. No. 911,266; Feb. 2; Sp. p. 487; Gaz. vol. 139; p. 83.
- Pierson, J. A., Attica, Kans. Harness-hanger. No. 910,573; Jan. 26; Sp. p. 4393; Gaz. vol. 138; p. 805.
- Pierson, S., Alva, Okla. Cutting apparatus for mowers or reapers. No. 912,164; Feb. 9; Sp. p. 2315; Gaz. vol. 139; p. 401.
- Pierson, W. B. (See Nicholson and Pierson.)
- Piestrak, C. S., London, England. Combustion-engine. No. 940,474; Nov. 16; Sp. p. 4510; Gaz. vol. 148; p. 754.
- Pietsch, C. R., Sparks, Nev. Micrometer-gage. No. 919,455; Apr. 27; Sp. p. 5358; Gaz. vol. 141; p. 926.
- Pietsch, H. F., Milwaukee, Wis. Wheat-beater. No. 912,322; Feb. 16; Sp. p. 2681; Gaz. vol. 139; p. 491.
- Pietsch, A. (See Adolph and Pietsch.)
- Pifer, A. A., assignor to Cleveland Armature Works, Cleveland, Ohio. Dynamo-electric machine. No. 932,897; Aug. 31; Sp. p. 6898; Gaz. vol. 145; p. 1185.
- Pifer, C. W., *et al.* (See Williams, W. S., assignor.)
- Pifer, G. N., Cleveland, Ohio. Postal-card photograph-mount. No. 922,035; May 18; Sp. p. 4008; Gaz. vol. 142; p. 700.
- Pigeon, A. M., Philadelphia, Pa. Knitting-machine. No. 943,230; Dec. 14; Sp. p. 2578; Gaz. vol. 149; p. 437.
- Pignarre, M. J., Liege, Belgium. Molding apparatus. No. 926,893; July 6; Sp. p. 392; Gaz. vol. 144; p. 63.
- Pignocco, J., La Salle, Ill. Combined cigar-cutter and match-vending machine. No. 937,092; Oct. 19; Sp. p. 3094; Gaz. vol. 147; p. 544.
- Pignone, E., New York, N. Y. Composition of matter for transfer-printing processes. No. 918,903; Apr. 20; Sp. p. 4056; Gaz. vol. 141; p. 711.
- Pihl, A. H., Näsviken, Sweden. Collapsible landing-net. No. 932,170; Aug. 24; Sp. p. 5408; Gaz. vol. 145; p. 922.
- Pihl, J. A., Floodwood, Minn. Ventilator. No. 916,484; Mar. 30; Sp. p. 5744; Gaz. vol. 140; p. 1037.
- Pike Adding Machine Company. (See Pentecost, A., assignor.)
- Pike Adding Machine Company. (See Pike, W. H., Jr., assignor.)
- Pike, E. B., Pike, N. H. Toilet-case. No. 928,694; July 20; Sp. p. 4143; Gaz. vol. 144; p. 722.
- Pike, E. B., assignor to Pike Manufacturing Company, Pike, N. H. Combined whetstone, blotter, and ruler. No. 928,693; July 20; Sp. p. 4142; Gaz. vol. 144; p. 721.
- Pike, E. B., Pike, N. H., and L. Hayne, Newark, N. J. Closure for collapsible tubes, bottles, &c. No. 928,692; July 20; Sp. p. 4140; Gaz. vol. 144; p. 721.
- Pike Manufacturing Company. (See Pike, E. B., assignor.)
- Pike, R. F., Boston, Mass. Pocket watch-holder. No. 908,885; Jan. 5; Sp. p. 941; Gaz. vol. 138; p. 149.
- Pike, W. H., Jr., London, England. Recording mechanism. No. 916,589; Mar. 30; Sp. p. 5969; Gaz. vol. 140; p. 1071.
- Pike, W. H., Jr., South Orange, assignor to Pike Adding Machine Company, Orange, N. J. Handle connection for adding-machines. No. 910,853; Jan. 26; Sp. p. 4947; Gaz. vol. 138; p. 893.
- Pike, W. H., Jr., assignor to Pike Adding Machine Company, Orange, N. J. Clutch device. No. 912,165; Feb. 9; Sp. p. 2317; Gaz. vol. 139; p. 401.
- Pike, W. H., Jr., assignor to Pike Adding Machine Company, Orange, N. J. Recording mechanism. No. 915,883; Mar. 23; Sp. p. 4585; Gaz. vol. 140; p. 814.
- Pike, W. H., Jr., South Orange, assignor to Pike Adding Machine Company, Orange, N. J. Adding-machine. No. 922,627; May 25; Sp. p. 5210; Gaz. vol. 142; p. 922.
- Pilcher, A. C., Louisville, Ky., assignor to Blake & Johnson Co., Waterbury, Conn. Rivet-ejector for heading-machines. No. 929,628; July 27; Sp. p. 6043; Gaz. vol. 144; p. 1057.
- Pilcher, N. G., Sydney, New South Wales, Australia. Clutch for transom-rods. No. 935,545; Sept. 28; Sp. p. 5188; Gaz. vol. 146; p. 910.
- Pile, W. E. (See Sutherland, E., assignor.)
- Pilkington, W. B., and W. A. Pauly, St. Louis, Mo. Garbage or ash receptacle. No. 917,126; Apr. 6; Sp. p. 344; Gaz. vol. 141; p. 61.
- Pillars, C. W., Ottawa, Kans. Jeweler's tool. No. 910,953; Jan. 26; Sp. p. 5140; Gaz. vol. 138; p. 926.
- Pilling, C. J., Philadelphia, Pa. Stethoscope. No. 910,854; Jan. 26; Sp. p. 4949; Gaz. vol. 138; p. 894.
- Pilling, J. L., Chicago, Ill. Portable hoist. No. 917,356; Apr. 6; Sp. p. 813; Gaz. vol. 141; p. 139.
- Pillow, J. G., Coleman, Tex. Sheaf-carrier for binders. No. 928,067; July 13; Sp. p. 2831; Gaz. vol. 144; p. 483.
- Pilon, P., Silver Bay, N. Y. Baling apparatus. No. 921,453; May 11; Sp. p. 2796; Gaz. vol. 142; p. 481.
- Pim, H. E., Lincoln, Nebr. Passenger-register for public vehicles. No. 920,993; May 11; Sp. p. 1830; Gaz. vol. 142; p. 325.
- Pindstofte, A. A., Frederiksberg, near Copenhagen, Denmark. Pasteurizing apparatus. No. 913,559; Feb. 23; Sp. p. 5257; Gaz. vol. 139; p. 930.
- Pindstofte, A. A., Frederiksberg, near Copenhagen, Denmark. Rotary bottling-machine. No. 935,685; Oct. 5; Sp. p. 133; Gaz. vol. 147; p. 22.
- Pindstofte, A. A., Frederiksberg, near Copenhagen, Denmark. Pasteurizing apparatus. No. 939,162; Nov. 2; Sp. p. 1529; Gaz. vol. 148; p. 248.
- Pindstofte, A. A., Frederiksberg, near Copenhagen, Denmark. Bottle-cleaning machine. No. 944,986; Dec. 28; Sp. p. 6357; Gaz. vol. 149; p. 1091.
- Pine, A. F., Castle Rock, Colo. Tag. No. 944,744; Dec. 28; Sp. p. 5867; Gaz. vol. 149; p. 1011.
- Pine, G. T., Scott Depot, W. Va. Seed-planter. No. 935,546; Sept. 28; Sp. p. 5189; Gaz. vol. 146; p. 910.
- Pine, G. V. A., assignor to Automatic Roll Paper Printer Manufacturing Company, Baltimore, Md. Automatic roll-paper cutter and printer. No. 939,545; Nov. 9; Sp. p. 2425; Gaz. vol. 148; p. 402.
- Pine, J. A. W., New York, N. Y. Rejuvenating asphalt. No. 938,698; Nov. 2; Sp. p. 549; Gaz. vol. 148; p. 86.
- Pine, J. K. P., and A. H. Taft, Troy, N. Y., assignors to United Shirt and Collar Company. Retainer for boxes. No. 923,885; June 8; Sp. p. 1757; Gaz. vol. 143; p. 293.
- Pine Street Patents Company. (See Ellis, C., assignor.)
- Pine Street Patents Company. (See Lesley and Spackman, assignors.)
- Pineau, J. M. (See Gaudet, P. B., assignor.)
- Pinegar, H. and R., Chesterfield, Iowa. Smoke-producing device. No. 928,695; July 20; Sp. p. 4145; Gaz. vol. 144; p. 722.
- Pinegar, R. (See Pinegar, H. and R.)
- Pingree, G. A., Rocky Ford, Colo. Beet-harvester. No. 940,189; Nov. 16; Sp. p. 3864; Gaz. vol. 148; p. 656.
- Pings, G. H., New York, N. Y. Lock. No. 916,778; Mar. 30; Sp. p. 6300; Gaz. vol. 140; p. 1127.
- Pink, F., Portsmouth, and J. P. Petty, Reading, England. Temporary binder or loose-sheet holder. No. 909,331; Jan. 12; Sp. p. 1829; Gaz. vol. 138; p. 329.
- Pink, J. J. (See Pink and Fletcher, assignors.)
- Pink, J. J., assignor to Viascope Manufacturing Company, Chicago, Ill. Moving-picture machine. No. 936,031; Oct. 5; Sp. p. 910; Gaz. vol. 147; p. 137.
- Pink, J. J., and J. Fletcher, assignors to J. J. Pink, Chicago, Ill. Kinetoscope. No. 940,275; Nov. 16; Sp. p. 4044; Gaz. vol. 148; p. 687.
- Pink, S. J., assignor of one-half to Modern Machine Company, Ottawa, and one-half to J. A. Bullman, Ottawa East, Canada. Brick-press. No. 938,699; Nov. 2; Sp. p. 552; Gaz. vol. 148; p. 86.
- Pinkham, C. A., Quincy, Mass., assignor to Imperial Art Press Co. Adjustable platen for printing-presses. No. 912,727; Feb. 16; Sp. p. 3561; Gaz. vol. 139; p. 620.
- Pinkston, J. G., assignor to L. L. Pinkston, Lumpkin, Ga. Crate-forming machine. No. 910,310; Jan. 19; Sp. p. 3836; Gaz. vol. 138; p. 691.
- Pinkston, L. L. (See Pinkston, J. G., assignor.)
- Pinkston, W. P., St. Louis, Mo. Target-carrier. No. 919,378; Apr. 27; Sp. p. 5190; Gaz. vol. 141; p. 900.
- Pinney, F. L., U. S. Navy. Razor-strop. No. 910,855; Jan. 26; Sp. p. 4950; Gaz. vol. 138; p. 894.
- Pinney, F. L., U. S. Navy. Razor-strop. No. 910,856; Jan. 26; Sp. p. 4951; Gaz. vol. 138; p. 894.
- Pinnow, F. F., Juda, Wis. Sash-fastener. No. 925,222; June 15; Sp. p. 4523; Gaz. vol. 143; p. 772.

*Alphabetical list of patentees—Continued.*

- Pino, G., Genoa, Italy. Apparatus for elevating submerged vessels. No. 928,536; July 20; Sp. p. 3817; Gaz. vol. 144; p. 669.
- Pinson, B. F., assignor of one-half to W. G. Keifer, Skiatook, Okla. Nut-lock. No. 912,407; Feb. 16; Sp. p. 2862; Gaz. vol. 139; p. 519.
- Pinson, J. F., Greenwood, S. C. Blacking-box. No. 932,171; Aug. 24; Sp. p. 5409; Gaz. vol. 145; p. 923.
- Pintsch, R., Menasha, Wis. Sleigh-bob. No. 913,050; Feb. 23; Sp. p. 4189; Gaz. vol. 139; p. 758.
- Pintsch, R., Menasha, Wis. Running-gear for four-wheeled vehicles. No. 917,127; Apr. 6; Sp. p. 345; Gaz. vol. 141; p. 61.
- Pioneer Steel Company. (See Clarke, W. A., assignor.)
- Pionzio-Cavagnino, M., Turin, Italy. Machine for registering commercial transactions by double entry. No. 915,474; Mar. 16; Sp. p. 3739; Gaz. vol. 140; p. 650.
- Pipe, J. L., Quincy, Ill. Scale. No. 939,857; Nov. 9; Sp. p. 3091; Gaz. vol. 148; p. 511.
- Piper, C., *et al.* (See Cooper, F. W., assignor.)
- Piper, E. J. (See Davison, J. C., assignor.)
- Piper, J. C., assignor to Standard Electric Headlight Company, Indianapolis, Ind. Steam-turbine. No. 916,779; Mar. 30; Sp. p. 6302; Gaz. vol. 140; p. 1127.
- Piper, L. B., Chicago, Ill. Heater. No. 914,455; Mar. 9; Sp. p. 1695; Gaz. vol. 140; p. 290.
- Piper, M. H., Walpole, assignor to United Printing Machinery Company, Boston, Mass. Machine for coloring illustrations. No. 929,326; July 27; Sp. p. 5477; Gaz. vol. 144; p. 961.
- Piper, M. W., Wolfboro, N. H. Coin-receiver. No. 920,177; May 4; Sp. p. 167; Gaz. vol. 142; p. 26.
- Piper, W. E., Savannah, Mo. Wrench. No. 923,886; June 8; Sp. p. 1759; Gaz. vol. 143; p. 293.
- Pippen, G. W., Cravens, La. Attachment for saw-grinders. No. 922,504; May 25; Sp. p. 4942; Gaz. vol. 142; p. 881.
- Pippin, J. W., Brownwood, Tex. Oil-burner. No. 915,475; Mar. 16; Sp. p. 3742; Gaz. vol. 140; p. 650.
- Piquette, N., Chassell, Mich. Sweep for hay-presses. No. 938,700; Nov. 2; Sp. p. 554; Gaz. vol. 148; p. 86.
- Piquette, N., Chassell, Mich. Hay-press. No. 938,701; Nov. 2; Sp. p. 555; Gaz. vol. 148; p. 87.
- Pirie, W. S., Halifax, Nova Scotia, Canada. Knuckle for car-couplings. No. 921,158; May 11; Sp. p. 2162; Gaz. vol. 142; p. 381.
- Pitcher, E., Verona, N. D. Shock-loader. No. 913,428; Feb. 23; Sp. p. 4950; Gaz. vol. 139; p. 886.
- Pitcher, E. C., San Francisco, Cal. Sliding-door structure. No. 920,083; Apr. 27; Sp. p. 6683; Gaz. vol. 141; p. 1136.
- Pitcher, E. C., San Francisco, Cal. Door-hanger. No. 941,095; Nov. 23; Sp. p. 5844; Gaz. vol. 148; p. 986.
- Pitcher, J., *et al.* (See Roscoe, D. L., assignor.)
- Pitel, C. M., Meriden, Conn. Drop-light. No. 913,976; Mar. 2; Sp. p. 690; Gaz. vol. 140; p. 107.
- Pitel, C. M., Meriden, Conn. Chandelier-hook. No. 913,977; Mar. 2; Sp. p. 691; Gaz. vol. 140; p. 108.
- Pitel, C. M., Meriden, Conn. Extension light-fixture. No. 918,904; Apr. 20; Sp. p. 4057; Gaz. vol. 141; p. 712.
- Pitel, C. M., Meriden, Conn. Extension light-fixture. No. 926,600; June 29; Sp. p. 7289; Gaz. vol. 143; p. 1286.
- Pitkin, C. A., Montpelier, Vt. Computer. No. 925,377; June 15; Sp. p. 4787; Gaz. vol. 143; p. 818.
- Pittman, R. A., assignor to Tacony Iron Company, Philadelphia, Pa. Permanent two-part metal mold. No. 928,151; July 13; Sp. p. 2979; Gaz. vol. 144; p. 509.
- Pitner, M. W., Chicago, Ill. Generator. No. 911,440; Feb. 2; Sp. p. 797; Gaz. vol. 139; p. 139.
- Pitner, M. W., Chicago, Ill. Fixture-support. No. 911,441; Feb. 2; Sp. p. 798; Gaz. vol. 139; p. 139.
- Pitner, M. W., Chicago, Ill. Hydrocarbon-lamp. No. 919,075; Apr. 20; Sp. p. 4380; Gaz. vol. 141; p. 765.
- Pitner, M. W., Chicago, Ill. Combined upright and pendent mantle gas-burner. No. 919,945; Apr. 27; Sp. p. 6381; Gaz. vol. 141; p. 1090.
- Pitney, J. M., Jr., Lorain, Ohio. Continuous-track-light attachment for automobiles. No. 923,295; June 1; Sp. p. 425; Gaz. vol. 143; p. 60.
- Pitsch, L. M., Bloomington, Ill. Soap-holder. No. 919,946; Apr. 27; Sp. p. 6383; Gaz. vol. 141; p. 1091.
- Pitt, R., Pinetops, N. C. Door stop or securer. No. 928,279; July 20; Sp. p. 3314; Gaz. vol. 144; p. 585.
- Pitt, W. P., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Loose-sheet binder. No. 943,844; Dec. 21; Sp. p. 3891; Gaz. vol. 149; p. 677.
- Pittman, B. K., and E. N. Kring, Fairbury, Ill. Plant-support. No. 917,655; Apr. 6; Sp. p. 1347; Gaz. vol. 141; p. 237.
- Pittman, G. A., Dewese, Nebr. Well-tubing and means for connecting sections thereof. No. 941,204; Nov. 23; Sp. p. 6098; Gaz. vol. 148; p. 1023.
- Pittman, J. A., and S. A. James, Spiro, Okla. Pipe-joining machine. No. 924,828; June 15; Sp. p. 3727; Gaz. vol. 143; p. 638.
- Pittman, J. I., and E. Harrison, Valdosta, Ga.; said Harrison assignor to said Pittman. Air motor or locomotive. No. 931,643; Aug. 17; Sp. p. 4217; Gaz. vol. 145; p. 723.
- Pittman, J. V., *et al.* (See Schmidt, H. C., assignor.)
- Pittman, R. W., New York, N. Y. Connector for electrical wires, cables, and conduits. No. 911,267; Feb. 2; Sp. p. 488; Gaz. vol. 139; p. 83.
- Pittman, R. W., New York, N. Y. Pencil-sharpening device. No. 940,613; Nov. 16; Sp. p. 4800; Gaz. vol. 148; p. 800.
- Pittman, V. V., Santa Cruz, Cal. Lock-pin. No. 913,560; Feb. 23; Sp. p. 5258; Gaz. vol. 139; p. 931.
- Pittcock, J. W., assignor to Oil and Waste Saving Machine Company, Philadelphia, Pa. Separating water from oil. No. 928,280; July 20; Sp. p. 3315; Gaz. vol. 144; p. 585.
- Pitts, C. C., Brockton, Mass., assignor to M. A. Pitts, Baltimore, Md. Mechanical waiter. No. 932,319; Aug. 24; Sp. p. 5696; Gaz. vol. 145; p. 971.
- Pitts, E. L., assignor of three-sixths to C. A. Seay and J. H. Warnack, Yuma, Ariz. Ter. Hat and coat rack. No. 909,114; Jan. 5; Sp. p. 1409; Gaz. vol. 138; p. 224.
- Pitts, E. L., assignor of one-third to A. J. Locke and one-third to J. E. Ludy, Yuma, Ariz. Seal-lock. No. 940,475; Nov. 16; Sp. p. 451; Gaz. vol. 148; p. 754.
- Pitts, E. L., assignor of one-third to A. J. Locke and one-third to J. E. Ludy, Yuma, Ariz. Station-indicator. No. 944,207; Dec. 21; Sp. p. 4657; Gaz. vol. 149; p. 798.
- Pitts, M. A. (See Pitts, C. C., assignor.)
- Pittsburg Appliance Company. (See Hughes, W. G., assignor.)
- Pittsburg Automatic Smoke Preventor Company. (See Parker, J. F., assignor.)
- Pittsburg Meter Company. (See Chrisman, H., assignor.)
- Pittsburg Pneumatic Company. (See Parfitt, A., assignor.)
- Pittsburg Water Heater Company. (See Frampton, R. C., assignor.)
- Pittsburgh Equipment Company. (See Pulliam, O. S., assignor.)
- Pittsburgh Lamp, Brass & Glass Company. (See Painter, W. A., assignor.)
- Pittsburgh Steel Foundry. (See Campbell, J. F., assignor.)
- Pittsburgh Steel Foundry. (See Williams, E. R., assignor.)
- Pittsburgh Track Specialty Company. (See Hassel, G. A., assignor.)
- Pittsburgh Valve, Foundry & Construction Company. (See Tanner, J. R., assignor.)
- Pittsfield Spark Coil Company. (See Field, S. D., assignor.)
- Pittsfield Spark Coil Company. (See Mueller and Jacob, assignors.)
- Pitzer, A., New York, N. Y. Amusement apparatus. No. 922,628; May 25; Sp. p. 5212; Gaz. vol. 142; p. 922.
- Piver, J. W., Cordele, Ga. Interlocking oorring and ceiling. No. 935,402; Sept. 28; Sp. p. 4876; Gaz. vol. 146; p. 862.
- Pixley, F. W., *et al.* (See Quäck and Woude, assignors.)
- Pixley, J. F., *et al.* (See Hallwood, H. S., assignor.)
- Pixley, W. E. (See Wolverton, Pixley, and Derrickson.)
- Place, J. F., Glen Ridge, N. J. Producing ozone. No. 932,898; Aug. 31; Sp. p. 6899; Gaz. vol. 145; p. 1185.
- Place, J. F., Glen Ridge, N. J., assignor to American Air Liquefying Co. Producing liquid air. No. 418,468; Apr. 13; Sp. p. 3049; Gaz. vol. 141; p. 536.
- Place, J. F., Glen Ridge, N. J., assignor to American Air Liquefying Co. Air-liquefier. No. 927,594; July 13; Sp. p. 1831; Gaz. vol. 144; p. 325.
- Place, J. F., Glen Ridge, N. J., assignor to American Air Liquefying Co. Apparatus for cooling and preserving foods, &c., by liquid air. No. 927,595; July 13; Sp. p. 1837; Gaz. vol. 144; p. 326.
- Place, J. R., Chicago Heights, Ill. Lawn-trimmer. No. 912,408; Feb. 16; Sp. p. 2863; Gaz. vol. 139; p. 519.
- Place, J. R., Chicago Heights, Ill. Mining-drill. No. 936,937; Oct. 12; Sp. p. 2769; Gaz. vol. 147; p. 463.
- Place, R. H., *et al.* (See Haworth, Briggs, and Ayrey assignors.)
- Plagnes, E. (See Hennequin and Plagnes.)
- Plaisted, H. M., Granite City, Ill., assignor to American Steel Foundries, New York, N. Y. Rail-clamp. No. 924,932; June 15; Sp. p. 3926; Gaz. vol. 143; p. 673.
- Plamondon, F. N., Bordeaux, Wash. Attachment for combs. No. 940,890; Nov. 23; Sp. p. 5419; Gaz. vol. 148; p. 918.
- Plamondon, I. L., Provemont, Mich. Catamenial bandage. No. 929,166; July 27; Sp. p. 5103; Gaz. vol. 144; p. 907.
- Plan, C. J., and W. H. Dorland, Inver Grove, Minn. Combined end-gate and step. No. 932,320; Aug. 24; Sp. p. 5698; Gaz. vol. 145; p. 972.
- Plane, W. H., Chicago, Ill. Hat-pin holder. No. 932,809; Aug. 31; Sp. p. 6742; Gaz. vol. 145; p. 1156.
- Planecki, J. (See Drobnick and Planecki.)
- Planett, C., and H. Jorgenson, Laporte, Ind. Cord-holder. No. 923,575; June 1; Sp. p. 1027; Gaz. vol. 143; p. 158.



*Alphabetical list of patentees—Continued.*

- Plank, J. C., and T. E. Fulghum, Grand Junction, Colo. Heater. No. 911,328; Feb. 2; Sp. p. 603; Gaz. vol. 139; p. 103.  
 Plank, J. C., and T. E. Fulghum, Grand Junction, Colo. Heater. No. 944,745; Dec. 28; Sp. p. 5869; Gaz. vol. 149; p. 1011.  
 Plant, H. S., Boston, Mass. Micrometer-gage. No. 934,692; Sept. 21; Sp. p. 3463; Gaz. vol. 146; p. 603.  
 Plant, T. G. (See Brennan, W. J., assignor.)  
 Plant, T. G. (See Condon, G. V., assignor.)  
 Plant, T. G. (See Heys, J. J., assignor.)  
 Plant, T. G. (See Hooper, W. H., assignor.)  
 Plant, T. G. (See La Chapelle, F., assignor.)  
 Plant, T. G. (See Stanbon, C. P., assignor.)  
 Plant, T. G. (See Stewart, W. C., assignor.)  
 Plant, T. G. (See Stewart and Hooper, assignors.)  
 Plant, T. G. (See Woodward, E., assignor.)  
 Plant, T. G., Boston, Mass. Bobbin-winding mechanism. No. 935,230; Sept. 28; Sp. p. 4531; Gaz. vol. 146; p. 807.  
 Plant, T. G., Boston, Mass. Stopping mechanism. No. 940,052; Nov. 16; Sp. p. 3555; Gaz. vol. 148; p. 608.  
 Plant, T. G., Boston, Mass. Sewing-machine. No. 940,053; Nov. 16; Sp. p. 3557; Gaz. vol. 148; p. 609.  
 Plant, T. G., Boston, Mass. Sole-sewing machine. No. 940,054; Nov. 16; Sp. p. 3560; Gaz. vol. 148; p. 609.  
 Plant, T. G., Boston, Mass. Sole-sewing machine. No. 940,055; Nov. 16; Sp. p. 3566; Gaz. vol. 148; p. 610.  
 Plant, T. G., Boston, Mass. Jack for boot and shoe lasts. No. 940,722; Nov. 23; Sp. p. 5049; Gaz. vol. 148; p. 863.  
 Plant, T. G., Boston, Mass. Channeling device for sewing-machines. No. 940,723; Nov. 23; Sp. p. 5052; Gaz. vol. 148; p. 863.  
 Plant, T. G., Boston, Mass. Sewing-machine. No. 940,724; Nov. 23; Sp. p. 5054; Gaz. vol. 148; p. 863.  
 Plant, T. G., Boston, Mass. Shoe-sewing machine. No. 940,725; Nov. 23; Sp. p. 5059; Gaz. vol. 148; p. 864.  
 Plant, T. G., Boston, Mass. Lock-stitch sewing-machine. No. 940,726; Nov. 23; Sp. p. 5064; Gaz. vol. 148; p. 864.  
 Planters Compress Company. (See Holmes, W. M., assignor.)  
 Planters Compress Company of Maine. (See Rheem, W. M., assignor.)  
 Plantier, A., Trenton, N. J. Water-closet bowl. No. 929,786; Aug. 3; Sp. p. 326; Gaz. vol. 145; p. 56.  
 Plantier, E. de N. du, Paris, France. Irrigator having a constant temperature. No. 922,810; May 25; Sp. p. 5584; Gaz. vol. 142; p. 981.  
 Plantinga, P., Cleveland, Ohio. Closure for retorts. No. 911,524; Feb. 2; Sp. p. 954; Gaz. vol. 139; p. 166.  
 Plantinga, P., Worcester, Mass. Folding stand. No. 918,087; Apr. 13; Sp. p. 2296; Gaz. vol. 141; p. 411.  
 Plantinga, P., Cleveland, Ohio. Valve structure. No. 920,178; May 4; Sp. p. 168; Gaz. vol. 142; p. 27.  
 Plasschaert, A. F. A. J., Wachtebeke-lez-Gand, Belgium. Intermittently-operated time-recording apparatus. No. 929,107; July 27; Sp. p. 4975; Gaz. vol. 144; p. 886.  
 Plasterer, F. C., Indianapolis, Ind. Combination extension and step ladder. No. 912,409; Feb. 16; Sp. p. 2864; Gaz. vol. 139; p. 520.  
 Plate, F. H. (See Teasdale, G. W., assignor.)  
 Plate, L. (See Jack, R. E., assignor.)  
 Plater, T. E., Monett, Mo. Addressing-machine. No. 937,543; Oct. 19; Sp. p. 4081; Gaz. vol. 147; p. 693.  
 Plates, A. P., assignor to Plates Richards Rotary Engine Limited, London, England. Rotary internal-combustion engine. No. 932,321; Aug. 24; Sp. p. 5699; Gaz. vol. 145; p. 972.  
 Plates Richards Rotary Engine. (See Plates, A. P., assignor.)  
 Platner, C., Topeka, Kans. Pencil-holder. No. 933,369; Sept. 7; Sp. p. 808; Gaz. vol. 146; p. 125.  
 Platt, C. D., Bridgeport, Conn. Knife-switch handle. No. 918,697; Apr. 20; Sp. p. 3622; Gaz. vol. 141; p. 641.  
 Platt, C. D., Bridgeport, Conn. Electrical key-socket. No. 920,179; May 4; Sp. p. 171; Gaz. vol. 142; p. 27.  
 Platt, C. D., Bridgeport, Conn. Electrical rosette. No. 923,887; June 8; Sp. p. 1760; Gaz. vol. 143; p. 293.  
 Platt, C. D., Bridgeport, Conn. Electric-switch handle. No. 928,152; July 13; Sp. p. 2980; Gaz. vol. 144; p. 510.  
 Platt, C. D., Bridgeport, Conn. Means for attaching insulating-linings. No. 937,463; Oct. 19; Sp. p. 3915; Gaz. vol. 147; p. 665.  
 Platt, C. D., Bridgeport, Conn. Keyless socket. No. 941,811; Nov. 30; Sp. p. 7408; Gaz. vol. 145; p. 1245.  
 Platt Iron Works Company. (See Pocock and Allgire, assignors.)  
 Platt, J. C., Ogden, Utah. Steel railway-tie and rail-grip. No. 933,264; Sept. 7; Sp. p. 539; Gaz. vol. 146; p. 82.  
 Platter, E., Rochester, Wyo. Tie-loader. No. 932,571; Aug. 31; Sp. p. 6222; Gaz. vol. 145; p. 1078.  
 Platter, F. D., assignor to Western Electric Company, Chicago, Ill. Wire-insulating machine. No. 918,590; Apr. 20; Sp. p. 3322; Gaz. vol. 141; p. 604.  
 Platter, F. D., deceased; J. G. Roberts, administrator, assignor to Western Electric Company, Chicago, Ill. Clutch mechanism. No. 921,628; May 11; Sp. p. 3157; Gaz. vol. 142; p. 539.  
 Plattner, D., Denver, Colo. Lever mechanism for sweep-rakes. No. 915,040; Mar. 9; Sp. p. 2845; Gaz. vol. 140; p. 482.  
 Plattner Implement Company. (See Kramer, A. H., assignor.)  
 Platzer, C. J., Baltimore, Md. Sash fastener and holder. No. 935,165; Sept. 28; Sp. p. 4408; Gaz. vol. 146; p. 786.  
 Player, J. (See Steele, Player, and Mellin.)  
 Playfair, J. (See Moloney, W. M., assignor.)  
 Playter, F., et al. (See Bryar, G., assignor.)  
 Plean, A., New York, N. Y. Stem-winding mechanism for watches. No. 939,081; Nov. 2; Sp. p. 1342; Gaz. vol. 148; p. 218.  
 Plean, A., New York, N. Y. Setting mechanism for watches. No. 939,082; Nov. 2; Sp. p. 1345; Gaz. vol. 148; p. 219.  
 Pleasant, A. M. (See Urban, A. G., assignor.)  
 Pleasure Park Specialty Company. (See Marble, L. C., assignor.)  
 Plecker, W. J., Los Angeles, Cal. Machine for making eaves-troughs. No. 925,502; June 22; Sp. p. 5035; Gaz. vol. 143; p. 888.  
 Pleister, H. W., Westfield, assignor to H. B. Newhall, Plainfield, N. J. Expansion-bolt anchor. No. 929,979; Aug. 3; Sp. p. 755; Gaz. vol. 145; p. 121.  
 Plew, J. E. (See Perrine, J. B., assignor.)  
 Plikerd, T. S., Delphos, Ohio. Window shade and curtain holder device. No. 909,452; Jan. 12; Sp. p. 2059; Gaz. vol. 138; p. 366.  
 Plimpton, H., et al. (See Sloane, G. H., assignor.)  
 Plimpton, H. M. (See Kendall, H. P., assignor.)  
 Plimpton, J. W., assignor, by mesne assignments, of one-half to C. E. Cooper, Oil City, Pa. Ejector for oil-wells. No. 916,366; Mar. 23; Sp. p. 5478; Gaz. vol. 140; p. 972.  
 Plinatus, W., Levallois-Perret, France. Machine for lining the covers of metal cans. No. 934,753; Sept. 21; Sp. p. 3571; Gaz. vol. 146; p. 622.  
 Plinatus, W., St. Petersburg, Russia. Sealing fruit-cans and the like. No. 925,223; June 15; Sp. p. 4524; Gaz. vol. 143; p. 772.  
 Plouff, N., West Brookfield, Mass. Window. No. 929,108; July 27; Sp. p. 4979; Gaz. vol. 144; p. 886.  
 Plough, S. A., assignor of one-half to W. W. Smith, Traverse City, Mich. Angular bit-stock. No. 912,886; Feb. 16; Sp. p. 3851; Gaz. vol. 139; p. 679.  
 Plowman, J. J., Waterport, N. Y. Gate. No. 918,363; Apr. 13; Sp. p. 2839; Gaz. vol. 141; p. 502.  
 Plowman, W. W., Jewell, Kans. Hitch-strap holder. No. 919,947; Apr. 27; Sp. p. 6384; Gaz. vol. 141; p. 1091.  
 Pluard, L., Chicago, Ill. Car-replacing frog. No. 914,070; Mar. 2; Sp. p. 890; Gaz. vol. 140; p. 139.  
 Plum, W. T. (See Downs, G. W., assignor.)  
 Plumbing Specialty Company. (See Kenly, G. T., assignor.)  
 Plume & Atwood Mfg. Co. (See Torrey, H. A., assignor.)  
 Plumen, J. H., Woluwe St. Pierre, assignor to H. Van Berestejn, Brussels, Belgium. Multitubular steam-boiler. No. 915,379; Mar. 16; Sp. p. 3553; Gaz. vol. 140; p. 619.  
 Plumer, A. H., St. Louis, Mo. Display-bin. No. 939,546; Nov. 9; Sp. p. 2428; Gaz. vol. 148; p. 403.  
 Plummer, C. F., Leominster, Mass. Corset-clasp fastener. No. 909,019; Jan. 5; Sp. p. 1205; Gaz. vol. 138; p. 193.  
 Plummer, S. A., West Newton, Ind. Seed-sower. No. 940,891; Nov. 23; Sp. p. 5420; Gaz. vol. 148; p. 918.  
 Plummer, W. S., St. Louis, Mo. Vehicle-wheel. No. 916,009; Mar. 23; Sp. p. 4829; Gaz. vol. 140; p. 854.  
 Plunger Plastic Packing Company. (See Dailey and Long, assignors.)  
 Plunkett, C., New York, N. Y. Broom-cover. No. 917,486; Apr. 6; Sp. p. 1037; Gaz. vol. 141; p. 181.  
 Plunkett, C., New York, N. Y. Sink-brush. No. 932,899; Aug. 31; Sp. p. 6901; Gaz. vol. 145; p. 1185.  
 Plunkett, C. F., assignor of one-half to J. Rinaldo, New York, N. Y. Siphon. No. 929,485; July 27; Sp. p. 5757; Gaz. vol. 144; p. 1011.  
 Plunkett, D. B., New York, N. Y. Drier. No. 924,272; June 8; Sp. p. 2574; Gaz. vol. 143; p. 419.  
 Plunkett, W. I. (See Romme, W. S., assignor.)  
 Plus and Minus Desk Company. (See Taylor, J. M., assignor.)  
 Pneumatic Machinery Cleaner Company. (See Harmer, E., assignor.)  
 Pneumatic Scale Corporation. (See Fallon, J. B., Jr.)  
 Pneumatic Scale Corporation. (See Scales, W. S., assignor.)  
 Pneumatic Scale Corporation et al. (See Doble, W. H., assignor.)  
 Pneumatic Scale Corporation et al. (See Doble and Wheaton, assignors.)  
 Pneumatic Tobacco Stemmer Company. (See Whitaker, L. P., assignor.)  
 Pneumatic Water Lift Power & Irrigation Company. (See Combs, E. U., assignor.)

*Alphabetical list of patentees—Continued.*

- Pneumelectric Machine Company. (See Palmros, A., assignor.)  
Pneumelectric Machine Company. (See Ward, W. Z., assignor.)  
Poché, J. A., New Orleans, La. Door bumper and holder. No. 922,328; May 18; Sp. p. 4579; Gaz. vol. 142; p. 795.  
Pocock, A. J., Dayton, Ohio. Hydraulic pump. No. 940,056; Nov. 16; Sp. p. 3567; Gaz. vol. 148; p. 610.  
Pocock, A. J., and R. E. Allgire, assignors to Platt Iron Works Company, Dayton, Ohio. Electric air-compressor. No. 918,194; Apr. 13; Sp. p. 2495; Gaz. vol. 141; p. 446.  
Pocock, S. H., St. Catharines, Ontario, Canada. Cash-register. No. 909,932; Jan. 19; Sp. p. 3032; Gaz. vol. 138; p. 562.  
Podmore, H., assignor to Trenton Potteries Company, Trenton, N. J. Lavatory. No. 925,378; June 15; Sp. p. 4789; Gaz. vol. 143; p. 818.  
Podmore, H., assignor to Trenton Potteries Company, Trenton, N. J. Lavatory. No. 928,696; July 20; Sp. p. 4146; Gaz. vol. 144; p. 722.  
Podmore, W., assignor to Trenton Potteries Company, Trenton, N. J. Lavatory. No. 943,458; Dec. 14; Sp. p. 3063; Gaz. vol. 149; p. 515.  
Poe, G., South Norfolk, assignor to Poe Invention Corporation, Norfolk, Va. Gas-generator. No. 929,875; Aug. 3; Sp. p. 536; Gaz. vol. 145; p. 86.  
Poe Invention Corporation. (See Poe, G., assignor.)  
Poell, H., Philadelphia, Pa. Tinner's double-seaming machine. No. 939,083; Nov. 2; Sp. p. 1346; Gaz. vol. 148; p. 219.  
Poerscke, H. P. R. L. (See Wedekind and Poerscke.)  
Poeschmann, O. (See Budde and Poeschmann.)  
Poesse, T., New Haven, Mo. Fence-making attachment for combination-tools. No. 916,780; Mar. 30; Sp. p. 6304; Gaz. vol. 140; p. 1128.  
Poettich, H., New Bedford, Mass. Firearm. No. 923,701; June 1; Sp. p. 1295; Gaz. vol. 143; p. 201.  
Pofahl, H. H., Vivian, Minn. Rod-coupling. No. 925,503; June 22; Sp. p. 5045; Gaz. vol. 143; p. 889.  
Poffinbarger, G. W., assignor of one-third to F. H. McKinzie, Winterset, Iowa. Locking-nut and bolt. No. 932,572; Aug. 31; Sp. p. 6225; Gaz. vol. 145; p. 1078.  
Pogany, A., Budapest, and H. Lahmann, Komotau, Austria-Hungary. Apparatus for producing corrugated tubes. No. 918,469; Apr. 13; Sp. p. 3055; Gaz. vol. 141; p. 536.  
Poh, G. L., Chicago, Ill. Automatic-feeder. No. 928,400; July 20; Sp. p. 3542; Gaz. vol. 144; p. 626.  
Pohl, E., Paterson, N. J. Silk-thread-finishing machine. No. 909,332; Jan. 12; Sp. p. 1831; Gaz. vol. 138; p. 329.  
Pohl, E., Paterson, N. J. Thread-winding mechanism. No. 910,415; Jan. 19; Sp. p. 4056; Gaz. vol. 138; p. 727.  
Pohl, E., Paterson, N. J. Apparatus for lustering and finishing silk filaments. No. 920,775; May 4; Sp. p. 1375; Gaz. vol. 142; p. 223.  
Pohl, E., New York, N. Y. Lustering and finishing silk threads. No. 911,906; Feb. 9; Sp. p. 1716; Gaz. vol. 139; p. 318.  
Pohl, E., New York, N. Y. Silk-thread finishing and lustering machine. No. 911,907; Feb. 9; Sp. p. 1717; Gaz. vol. 139; p. 318.  
Pohl, E., New York, N. Y. Apparatus for lustering and finishing silk filaments. No. 916,367; Mar. 23; Sp. p. 5479; Gaz. vol. 140; p. 972.  
Pohl, E., New York, N. Y. Silk-thread-finishing machine. No. 920,776; May 4; Sp. p. 1378; Gaz. vol. 142; p. 223.  
Pohl, E., New York, N. Y. Silk-thread-finishing machine. No. 936,473; Oct. 12; Sp. p. 1850; Gaz. vol. 147; p. 307.  
Pohl, K. G. (See Inman, E. R., assignor.)  
Pohle, F. W. C., assignor to Pohle-Werner Manufacturing Company, Buffalo, N. Y. Photographic posing device. No. 908,800; Jan. 5; Sp. p. 767; Gaz. vol. 138; p. 121.  
Pohle-Werner Manufacturing Company. (See Pohle, F. W. C., assignor.)  
Pohlman, A. J. (See Youngman, C. A., assignor.)  
Pohlmann, G., *et al.* (See Forst, M., assignor.)  
Poinddexter, G. D., assignor of one-half to J. D. Burley, Moundsville, W. Va. Pipe and nut wrench. No. 916,781; Mar. 30; Sp. p. 6305; Gaz. vol. 140; p. 1128.  
Poinddexter, P. S., Chattanooga, Tenn. Flask-hinge. No. 937,093; Oct. 19; Sp. p. 3097; Gaz. vol. 147; p. 544.  
Poinsett, W. E. (See Slocumb and Poinsett.)  
Point Loma Chemical Company. (See Bundman, E. T., assignor.)  
Point, W. (See Julien and Point.)  
Pointer, G. W., Cambridge, Iowa. Adjustable road-grader drag. No. 927,071; July 6; Sp. p. 786; Gaz. vol. 144; p. 125.  
Pointon, C. E. and J. E., Peterborough, England. Dough kneading or mixing machinery. No. 934,834; Sept. 21; Sp. p. 3737; Gaz. vol. 146; p. 649.  
Pointon, J. E. (See Pointon, C. E. and J. E.)  
Points, W. W., Pineville, Ky. Bookcase. No. 927,379; July 6; Sp. p. 1354; Gaz. vol. 144; p. 225.  
Poirier, G. H. (See Blessing, Aten, and Poirier.)  
Poirier, J. A., Woonsocket, R. I. Tape-feeding device. No. 920,644; May 4; Sp. p. 1111; Gaz. vol. 142; p. 181.  
Poist, G. H., Port Deposit, Md. Gambrel-stick. No. 916,010; Mar. 23; Sp. p. 4830; Gaz. vol. 140; p. 854.  
Polster, W. A. (See Myers and Polster.)  
Poitras, O., Fitchburg, Mass. Picker for looms. No. 909,333; Jan. 12; Sp. p. 1835; Gaz. vol. 138; p. 329.  
Pojar, T., Dodge, Nebr. Draft-tongue. No. 939,547; Nov. 9; Sp. p. 2428; Gaz. vol. 148; p. 403.  
Polakoskey, F. V., assignor of one-third to P. W. O'Brien and one-third to T. McPhillips, Peekskill, N. Y. Trolley attachment. No. 926,020; June 22; Sp. p. 6132; Gaz. vol. 143; p. 1059.  
Polakoskey, F. V., assignor of one-third to P. W. O'Brien and one-third to T. McPhillips, Peekskill, N. Y. Trolley-guard. No. 932,998; Aug. 31; Sp. p. 7081; Gaz. vol. 145; p. 1218.  
Poland, C., Erfurt, Germany. Measure or rule. No. 934,835; Sept. 21; Sp. p. 3739; Gaz. vol. 146; p. 650.  
Poland, C. H. (See Russ and Poland.)  
Polar Ice Machine Company. (See Jewell, O. H., assignor.)  
Politz, G., Kattowitz, Germany. Tube-joint. No. 911,156; Feb. 2; Sp. p. 266; Gaz. vol. 139; p. 46.  
Poljakoff-Kowtunoff, T., St. Petersburg, Russia. Dividing-table for punching-presses. No. 926,601; June 29; Sp. p. 7290; Gaz. vol. 143; p. 1286.  
Pollak, A., Paris, France. Apparatus for strengthening weak electrical currents. No. 939,625; Nov. 9; Sp. p. 2611; Gaz. vol. 148; p. 430.  
Pollard, D., Philadelphia, Pa. Vehicle-tire. No. 927,676; July 13; Sp. p. 2031; Gaz. vol. 144; p. 353.  
Pollard, J. A., Oakland, Miss. Self-closing bottom for well-strainers. No. 941,205; Nov. 23; Sp. p. 6099; Gaz. vol. 148; p. 1023.  
Pollard, L. T., assignor of one-fourth to E. E. Hertzler, Pittsburg, Pa. Cuspidor. No. 937,645; Oct. 19; Sp. p. 4258; Gaz. vol. 147; p. 726.  
Pollard, P., Norfolk, Va. Pitcher. No. 936,938; Oct. 12; Sp. p. 2771; Gaz. vol. 147; p. 463.  
Pollard, R. J., Merrill, Iowa. Washing-machine. No. 921,885; May 18; Sp. p. 3693; Gaz. vol. 142; p. 651.  
Polley, F. S., West Pullman, Ill., assignor to Whitman & Barnes Manufacturing Company, Akron, Ohio. Hay-carrier. No. 909,661; Jan. 12; Sp. p. 2477; Gaz. vol. 138; p. 439.  
Polley, F. S., assignor, by mesne assignments, to Sliding Blade Shear Company, Chicago, Ill. Slide-cut shears. No. 915,697; Mar. 16; Sp. p. 4224; Gaz. vol. 140; p. 728.  
Pollock, A. J., St. Louis, Mo. Chain-swivel. No. 912,323; Feb. 16; Sp. p. 2682; Gaz. vol. 139; p. 491.  
Pollock, A. J., St. Louis, Mo. Jewelry-clasp. No. 926,602; June 29; Sp. p. 7291; Gaz. vol. 143; p. 1287.  
Pollock, J., Belfast, Ireland. Feed-water heater. No. 932,810; Aug. 31; Sp. p. 6744; Gaz. vol. 145; p. 1157.  
Pollock, J. R., assignor of one-half to E. S. Bruce, Longbeach, Cal. Street-sweeper. No. 943,122; Dec. 14; Sp. p. 2367; Gaz. vol. 149; p. 402.  
Pollock, M. L. (See Schmitt, E. D., assignor.)  
Pollock, R. A., Kansas City, Mo., assignor to American Recording Company. Printing mechanism. No. 923,074; May 25; Sp. p. 6145; Gaz. vol. 142; p. 1066.  
Pollock, V. H., Seattle, Wash. Ticket and card case. No. 933,663; Sept. 7; Sp. p. 1425; Gaz. vol. 146; p. 213.  
Poinisch, P., assignor to W. C. Schwebel, Philadelphia, Pa. Bottle-washing machine. No. 944,499; Dec. 28; Sp. p. 5319; Gaz. vol. 149; p. 927.  
Polo, J. B. (See White and Polo.)  
Polte, E., Magdeburg-Sudenburg, Germany. Transforming existing metal-coated bullets. No. 915,807; Mar. 16; Sp. p. 3410; Gaz. vol. 140; p. 595.  
Polzer, F., assignor to I. X. L. Manufacturing Company, New York, N. Y. Fluid-pressure tool. No. 914,602; Mar. 9; Sp. p. 1989; Gaz. vol. 140; p. 339.  
Pomeroy, C. W., Chicago, Ill. Sectional file-cabinet. No. 912,166; Feb. 9; Sp. p. 2318; Gaz. vol. 139; p. 402.  
Pomeroy, F., assignor of one-fourth to P. Fox and one-fourth to T. F. Fox, Lompoc, Cal. Horse hay-rake. No. 915,476; Mar. 16; Sp. p. 3744; Gaz. vol. 140; p. 651.  
Pomeroy, F. H., Bradford, assignor, by mesne assignments, to Safety Gas Lighter Co., Haverhill, Mass. Gas-lighter. No. 940,276; Nov. 16; Sp. p. 4048; Gaz. vol. 148; p. 688.  
Pomeroy, H. C., Chicago, Ill. Seal-press. No. 914,672; Mar. 9; Sp. p. 2151; Gaz. vol. 140; p. 361.  
Pomeroy, W. D., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Means for starting dynamo-electric machines. No. 909,216; Jan. 12; Sp. p. 1615; Gaz. vol. 138; p. 290.  
Pomeroy, W. D., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 922,946; May 25; Sp. p. 5889; Gaz. vol. 142; p. 1025.  
Pomeroy, W. D., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 932,641; Aug. 31; Sp. p. 6386; Gaz. vol. 145; p. 1102.



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- Pomeroy, W. D., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Coil-forming machine. No. 937,328; Oct. 19; Sp. p. 3590; Gaz. vol. 147; p. 620.
- Pomeroy, W. D., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 934,210; Sept. 14; Sp. p. 3224; Gaz. vol. 146; p. 416.
- Pomeroy, W. D., Norwood, and A. L. McHugh, Cincinnati, Ohio, assignors to Bullock Electric Manufacturing Company. Speed-limiting device. No. 934,211; Sept. 14; Sp. p. 2525; Gaz. vol. 146; p. 417.
- Pomery, M. M., *et al.* (See Baker, O. O., assignor.)
- Pomije, B., New Prague, Minn. Weed destroyer and gatherer. No. 924,498; June 8; Sp. p. 3019; Gaz. vol. 143; p. 493.
- Pompa, J. J., Caborca, Mexico. Wave-motor. No. 913,561; Feb. 23; Sp. p. 5259; Gaz. vol. 139; p. 931.
- Pond, B. A., Boston, Mass. Insulator. No. 918,905; Apr. 20; Sp. p. 4058; Gaz. vol. 141; p. 712.
- Pond, W. B., South Bend, Ind. Folding post for landaus. No. 943,705; Dec. 21; Sp. p. 3616; Gaz. vol. 149; p. 629.
- Ponder, J. M., Ruston, La. Canning outfit. No. 943,706; Dec. 21; Sp. p. 3617; Gaz. vol. 149; p. 629.
- Ponickau, R., Washington, D. C. Traveling-bag. No. 923,373; June 1; Sp. p. 599; Gaz. vol. 143; p. 87.
- Pons, A., New York, N. Y. Fiber-cleaning machine. No. 944,106; Dec. 21; Sp. p. 4445; Gaz. vol. 149; p. 766.
- Ponsar, T., South Omaha, Nebr. Alfalfa-grinder. No. 908,801; Jan. 5; Sp. p. 770; Gaz. vol. 138; p. 121.
- Ponten, A., Berkeley, Cal. Fluid-cushioned bearing. No. 913,233; Feb. 23; Sp. p. 4567; Gaz. vol. 139; p. 820.
- Ponten, A., Berkeley, assignor of one-half to A. Johnson, Oakland, Cal. Fluid-cushioned bearing. No. 913,232; Feb. 23; Sp. p. 4565; Gaz. vol. 139; p. 819.
- Pontiac Buggy Company. (See Connell, D. W., assignor.)
- Pool, J. F., Philadelphia, Pa., assignor to American Sugar Refining Company, Jersey City, N. J. Apparatus for making sucrose of lime. No. 912,887; Feb. 16; Sp. p. 3853; Gaz. vol. 139; p. 679.
- Pool, M. W., New York, assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 909,334; Jan. 12; Sp. p. 1835; Gaz. vol. 138; p. 329.
- Pool, M. W., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 911,908; Feb. 9; Sp. p. 1719; Gaz. vol. 139; p. 319.
- Pool, T. G., Virgilina, Va. Shock-binder. No. 934,012; Sept. 14; Sp. p. 2123; Gaz. vol. 146; p. 351.
- Poole, C. C., Evanston, assignor to Oliver Typewriter Company, Chicago, Ill. Line-space indicator for type-writers. No. 927,750; July 13; Sp. p. 2171; Gaz. vol. 144; p. 377.
- Poole, C. C., Evanston, assignor to Oliver Typewriter Company, Chicago, Ill. Line-space indicator for type-writers. No. 929,242; July 27; Sp. p. 5249; Gaz. vol. 144; p. 930.
- Poole, C. C., Evanston, assignor to Oliver Typewriter Company, Chicago, Ill. Paper-movement indicator for type-writers. No. 929,243; July 27; Sp. p. 5249; Gaz. vol. 144; p. 931.
- Poole, E. J., assignor to Carpenter Steel Company, Reading, Pa. Rolled-metal bar for metal-cutting tools. No. 933,338; Sept. 7; Sp. p. 691; Gaz. vol. 146; p. 107.
- Poole, E. W., and J. H. Heffelfinger, Cleveland, Ohio. Locking device for porcelain facings. No. 909,662; Jan. 12; Sp. p. 2479; Gaz. vol. 138; p. 440.
- Poole, F. P. (See Badeau and Poole.)
- Poole, F. P., assignor to Bryant Electric Company, Bridgeport, Conn. Inclosed fuse. No. 931,476; Aug. 17; Sp. p. 3911; Gaz. vol. 145; p. 674.
- Poole, F. P., assignor to Bryant Electric Company, Bridgeport, Conn. Inclosed fuse. No. 931,477; Aug. 17; Sp. p. 3912; Gaz. vol. 145; p. 675.
- Poole, F. P., assignor to Bryant Electric Company, Bridgeport, Conn. Inclosed fuse. No. 931,478; Aug. 17; Sp. p. 3912; Gaz. vol. 145; p. 675.
- Poole, F. P., assignor to Perkins Electric Switch Mfg. Company, Bridgeport, Conn. Electric-lamp socket. No. 944,208; Dec. 21; Sp. p. 4659; Gaz. vol. 149; p. 798.
- Poole, J. H., Washington, D. C. Brush-spring for dynamos and motors. No. 913,562; Feb. 23; Sp. p. 5261; Gaz. vol. 139; p. 931.
- Poole, J. H., assignor of three-eighths to F. L. Price and three-eighths to J. G. Wilde, Brockton, Mass. Cushion-tire for vehicle-wheels. No. 942,842; Dec. 7; Sp. p. 1668; Gaz. vol. 149; p. 273.
- Poole, S. S., Albany, N. Y. Flue-cleaner. No. 942,515; Dec. 7; Sp. p. 1022; Gaz. vol. 149; p. 165.
- Poole, W., New Decatur, Ala. Heating attachment for lamp-chimneys. No. 908,494; Jan. 5; Sp. p. 122; Gaz. vol. 138; p. 22.
- Pooler, D. C. (See Pooler, E. and D. C.)
- Pooler, E. and D. C., Seattle, Wash. Match-safe. No. 943,098; Dec. 14; Sp. p. 2317; Gaz. vol. 149; p. 393.
- Pooley, S., Chicago, Ill. Confectionery machinery. No. 913,195; Apr. 13; Sp. p. 2502; Gaz. vol. 141; p. 447.
- Poor, C. O., Rochester, N. Y. Battery-chute. No. 916,011; Mar. 23; Sp. p. 4890; Gaz. vol. 140; p. 855.
- Pope, A. C., and H. Kahl, assignors to Anchor Stove and Range Company, New Albany, Ind. Valve-locking device for the oven-burners of gas-stoves. No. 926,603; June 29; Sp. p. 7293; Gaz. vol. 143; p. 1287.
- Pope Automatic Merchandizing Company. (See Kainer, F. C., assignor.)
- Pope, C. E., Pittsburg, Pa. Refractory brick for metallurgical and other uses. No. 944,692; Dec. 28; Sp. p. 5739; Gaz. vol. 149; p. 994.
- Pope, C. E., Pittsburg, Pa. Cement flint clay brick for metallurgical and other purposes. No. 944,693; Dec. 28; Sp. p. 5740; Gaz. vol. 149; p. 994.
- Pope, C. E., Pittsburg, Pa. Cement-silica brick for metallurgical and other uses. No. 944,694; Dec. 28; Sp. p. 5741; Gaz. vol. 149; p. 994.
- Pope, C. E., Holyoke, assignor to Lee Crepe Napkin Company, Lee, Mass. Reel for paper. No. 912,262; Feb. 9; Sp. p. 2510; Gaz. vol. 139; p. 432.
- Pope, C. H., Cambridge, Mass. Orienting mechanism. No. 913,051; Feb. 23; Sp. p. 4190; Gaz. vol. 139; p. 758.
- Pope, C. R. (See Kainer, F. C., assignor.)
- Pope, C. R., Chicago, Ill. Casing for vending-machines. No. 910,148; Jan. 19; Sp. p. 3452; Gaz. vol. 138; p. 632.
- Pope, E. J., Holyoke, Mass. Cushion-wheel. No. 942,741; Dec. 7; Sp. p. 1468; Gaz. vol. 149; p. 240.
- Pope, E. J., assignor to C. Elmer Pope Paper Company, Holyoke, Mass. Contracting reel for paper-making machinery. No. 915,041; Mar. 9; Sp. p. 2846; Gaz. vol. 140; p. 482.
- Pope, E. M., and I. J. B. Hanten, Watertown, S. D. Flue-cutter. No. 934,351; Sept. 14; Sp. p. 2785; Gaz. vol. 146; p. 464.
- Pope, F., Kankakee, assignor to Paramount Knitting Company, Chicago, Ill. Hosiery-turner. No. 939,312; Nov. 9; Sp. p. 1912; Gaz. vol. 148; p. 326.
- Pope, F. B., Augusta, Ga., and W. J. Lester, Boston, Mass. Ventilating device for vehicles. No. 943,889; Dec. 21; Sp. p. 3985; Gaz. vol. 149; p. 692.
- Pope, G. D. (See Waldrip and Pope.)
- Pope, H. F., assignor to National Malleable Castings Company, Cleveland, Ohio. Car-truck. No. 933,579; Sept. 7; Sp. p. 1263; Gaz. vol. 146; p. 186.
- Pope, H. F., assignor to National Malleable Castings Company, Cleveland, Ohio. Body-bolster for cars. No. 936,159; Oct. 5; Sp. p. 1173; Gaz. vol. 147; p. 178.
- Pope, H. F., assignor to National Malleable Castings Company, Cleveland, Ohio. Bolster. No. 936,160; Oct. 5; Sp. p. 1175; Gaz. vol. 147; p. 178.
- Pope, J. B., San Francisco, Cal. Concrete railway-tie. No. 928,472; July 20; Sp. p. 3691; Gaz. vol. 144; p. 649.
- Pope, J. H., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Grinding-machine. No. 919,456; Apr. 27; Sp. p. 5359; Gaz. vol. 141; p. 926.
- Pope Manufacturing Company. (See Chamberlin, V. E., assignor.)
- Pope Manufacturing Company. (See Hubbell, L. D., assignor.)
- Pope, W. S., Suffolk, Va. Windmill. No. 918,364; Apr. 13; Sp. p. 2840; Gaz. vol. 141; p. 503.
- Pope, W. W., *et al.* (See Freer, P. M., assignor.)
- Pope, W. W., Tylertown, Miss. Stump-burner. No. 932,573; Aug. 31; Sp. p. 6226; Gaz. vol. 145; p. 1078.
- Popel, S. W., Harrisburg, Pa. Guard for roofs. No. 935,055; Sept. 28; Sp. p. 4187; Gaz. vol. 146; p. 750.
- Popkess, M. A., Kansas City, Mo. Earth-rake. No. 929,486; July 27; Sp. p. 5758; Gaz. vol. 144; p. 1011.
- Popkess, M. A., Kansas City, Mo. Road-working machine. No. 942,866; Dec. 7; Sp. p. 1736; Gaz. vol. 149; p. 282.
- Popp, B. (See Dubied and Popp.)
- Popp, B., assignor to E. Dubied & Cie., Couvet, Switzerland. Needle-cam for straight independent-needle knitting-machines. No. 941,206; Nov. 23; Sp. p. 6101; Gaz. vol. 148; p. 1024.
- Popp, R. G., and A. L. de Horevitz, Paris, France. Fare-register for vehicles. No. 912,728; Feb. 16; Sp. p. 3563; Gaz. vol. 139; p. 630.
- Poppenhuisen, H. A., Chicago, and J. Harrington, Riverside, Ill. Rotary pump or motor. No. 918,906; Apr. 20; Sp. p. 4060; Gaz. vol. 141; p. 712.
- Popper & Company. (See Zollinger, A., assignor.)
- Popper, J., New York, N. Y. Millinery device. No. 929,980; Aug. 3; Sp. p. 757; Gaz. vol. 145; p. 121.
- Popperth, H., Buffalo, N. Y. Garment-hook. No. 918,088; Apr. 13; Sp. p. 2297; Gaz. vol. 141; p. 412.
- Porbeck, O., St. Louis, Mo. Dust-collector and separator. No. 938,702; Nov. 2; Sp. p. 556; Gaz. vol. 148; p. 87.
- Porges, P., Vienna, and R. Neumann, Brunn-Königsfeld, Austria-Hungary. Apparatus for separating solid bodies from liquids by cooling. No. 914,183; Mar. 2; Sp. p. 1136; Gaz. vol. 140; p. 178.
- Porsche, F., Wiener-Neustadt, Austria-Hungary. Power transmission. No. 925,504; June 22; Sp. p. 5047; Gaz. vol. 143; p. 889.

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- Port, G. C., Ebensburg, Pa. Cooking utensil. No. 930,223; Aug. 3; Sp. p. 1232; Gaz. vol. 145; p. 203.
- Port, G. C., Ebensburg, Pa. Snow-shovel. No. 941,271; Nov. 23; Sp. p. 6243; Gaz. vol. 148; p. 1045.
- Porteous, J., Fresno, Cal. Brush-chopper. No. 742,215; Dec. 7; Sp. p. 400; Gaz. vol. 149; p. 61.
- Porter, B. J., and T. H. Binnington, Salt Lake City, Utah. Water cock or faucet. No. 932,172; Aug. 24; Sp. p. 5410; Gaz. vol. 145; p. 923.
- Porter, C. O., Grand Rapids, Mich. Rotary cutter-head. No. 940,940; Nov. 23; Sp. p. 5522; Gaz. vol. 148; p. 934.
- Porter, C. M., Carrington, N. D. Metal grain-tank. No. 922,329; May 18; Sp. p. 4579; Gaz. vol. 142; p. 795.
- Porter-Cable Machine Company. (See Porter and Cable, assignors.)
- Porter, E. C., Telluride, Colo. Elevator. No. 930,224; Aug. 3; Sp. p. 1233; Gaz. vol. 145; p. 203.
- Porter, E. E., assignor to Wooster Machine Company, Wooster, Ohio. Pulverizing-roller. No. 922,505; May 25; Sp. p. 4943; Gaz. vol. 142; p. 881.
- Porter, E. E., assignor to Wooster Machine Company, Wooster, Ohio. Pulverizing-roller. No. 922,506; May 25; Sp. p. 4945; Gaz. vol. 142; p. 881.
- Porter, F. A., assignor to National Spring Bed Company, New Britain, Conn. Wall-tie for masonry. No. 917,656; Apr. 6; Sp. p. 1349; Gaz. vol. 141; p. 238.
- Porter, G. C., St. Louis, Mo. Switch-operating mechanism. No. 936,161; Oct. 5; Sp. p. 1176; Gaz. vol. 147; p. 179.
- Porter, G. G., and F. E. Cable, assignors to Porter-Cable Machine Company, Syracuse, N. Y. Universal milling attachment. No. 943,845; Dec. 21; Sp. p. 3895; Gaz. vol. 149; p. 678.
- Porter, G. M., Tunbridge Wells, England. Bird-cage and the like. No. 936,032; Oct. 5; Sp. p. 913; Gaz. vol. 147; p. 138.
- Porter, H. K., Chelsea, Mass. Bolt-clipper. No. 909,663; Jan. 12; Sp. p. 2480; Gaz. vol. 138; p. 440.
- Porter, H. K. and O. K., Early, Oreg. Match-safe. No. 913,978; Mar. 2; Sp. p. 691; Gaz. vol. 140; p. 108.
- Porter, J. B., and E. B. Jenkins, Pittsburg, Pa. Wire basket. No. 936,736; Oct. 12; Sp. p. 2386; Gaz. vol. 147; p. 397.
- Porter, J. B., E. B. Jenkins, and E. Steytler, Pittsburg, Pa. Folding shipping-crate. No. 936,735; Oct. 12; Sp. p. 2383; Gaz. vol. 147; p. 397.
- Porter, J. C. (See Courtney and Porter.)
- Porter, J. L., St. Louis, Mo. Weather-strip. No. 921,159; May 11; Sp. p. 2162; Gaz. vol. 142; p. 381.
- Porter, J. M., assignor of one-half to D. R. McAfee, Cuyahoga Falls, Ohio. Shipping crate or case. No. 909,664; Jan. 12; Sp. p. 2482; Gaz. vol. 138; p. 440.
- Porter, J. N. W., Norfolk, Va. Self-latching automatic railway-switch. No. 927,677; July 13; Sp. p. 2032; Gaz. vol. 144; p. 353.
- Porter, J. W., *et al.* (See Woodmansee, F., assignor.)
- Porter, J. W., Chicago, Ill., assignor to Electric Service Supplies Company, Camden, N. J. Trolley-wire support. No. 919,763; Apr. 27; Sp. p. 5991; Gaz. vol. 141; p. 1030.
- Porter, J. Y., Detroit, Mich. Electrically-actuated train-switch. No. 939,626; Nov. 9; Sp. p. 2612; Gaz. vol. 148; p. 430.
- Porter, K. E., Cincinnati, Ohio. Sectional gear. No. 914,071; Mar. 2; Sp. p. 892; Gaz. vol. 140; p. 140.
- Porter, M. D., Lewiston, N. Y. Container. No. 916,485; Mar. 30; Sp. p. 5745; Gaz. vol. 140; p. 1037.
- Porter, M. L., Webb City, Mo. Combined stool and foot-rest. No. 942,975; Dec. 14; Sp. p. 2026; Gaz. vol. 149; p. 351.
- Porter, O. K. (See Porter, H. K. and O. K.)
- Porter, R., Neodesha, Kans. Brush. No. 922,947; May 25; Sp. p. 5891; Gaz. vol. 142; p. 1026.
- Porter Safety Seal Company. (See De Land, T. L., Jr., assignor.)
- Porter Screen Manufacturing Company. (See Mix, A. H., assignor.)
- Porter Screen Manufacturing Company. (See Southworth, H. E., assignor.)
- Porter, W. A., assignor to Wetter Numbering Machine Company, New York, N. Y. Numbering-machine. No. 909,115; Jan. 5; Sp. p. 1411; Gaz. vol. 138; p. 225.
- Porter, W. B., Aberdeen, Miss. Regulator for incubators. No. 934,754; Sept. 21; Sp. p. 3572; Gaz. vol. 146; p. 623.
- Porter, W. E., Bisbee, Ariz. Ter. Rock-drill. No. 931,479; Aug. 17; Sp. p. 3913; Gaz. vol. 145; p. 675.
- Porter, W. E., assignor to New Haven Clock Co., New Haven, Conn. Stem winding and setting watch. No. 919,764; Apr. 27; Sp. p. 5993; Gaz. vol. 141; p. 1030.
- Porter, W. E., assignor to New Haven Clock Co., New Haven, Conn. Alarm-clock. No. 919,765; Apr. 27; Sp. p. 5994; Gaz. vol. 141; p. 1030.
- Porter, W. E., assignor to New Haven Clock Co., New Haven, Conn. Stem-winding and stem-setting watch. No. 927,596; July 13; Sp. p. 1845; Gaz. vol. 144; p. 327.
- Porter, W. E., assignor to New Haven Clock Co., New Haven, Conn. Alarm-clock. No. 941,042; Nov. 23; Sp. p. 5736; Gaz. vol. 148; p. 968.
- Porter, W. E., New Haven, Conn., assignor of one-half to E. Armand, Binghamton, N. Y. Coin-operated vending-machine. No. 935,812; Oct. 5; Sp. p. 461; Gaz. vol. 147; p. 65.
- Porter, W. F., Duke Center, Pa. Pipe-reamer. No. 924,378; June 8; Sp. p. 2803; Gaz. vol. 143; p. 455.
- Porterville Cement Company. (See Putz, T., assignor.)
- Portmore, T. G., assignor to Dennison Manufacturing Company, South Framingham, Mass. Baggage and other check. No. 922,948; May 25; Sp. p. 5893; Gaz. vol. 142; p. 1026.
- Portnoy, I., Chicago, Ill. Combined fire-shovel and ash-sifter. No. 944,501; Dec. 28; Sp. p. 5325; Gaz. vol. 149; p. 928.
- Portsche, G. (See Bertrand and Portsche.)
- Portteus, A. L. (See Portteus, J. G. and A. L.)
- Portteus, J. G. and A. L., Marion, Ind. Match safe and lighter. No. 922,507; May 25; Sp. p. 4946; Gaz. vol. 142; p. 882.
- Possolt, T. R. (See Gilmour and Possolt.)
- Posson, E., Chicago, Ill. Grain-door for freight-cars. No. 913,763; Mar. 2; Sp. p. 181; Gaz. vol. 140; p. 30.
- Posson, E., Chicago, Ill. Car-roof. No. 917,128; Apr. 6; Sp. p. 347; Gaz. vol. 141; p. 61.
- Posson, E., Chicago, Ill. Door-operating device. No. 934,933; Sept. 21; Sp. p. 2039; Gaz. vol. 146; p. 683.
- Posson, E., Chicago, Ill. End-binder for aisle-carpet. No. 938,170; Oct. 26; Sp. p. 5389; Gaz. vol. 147; p. 920.
- Posson, E., Chicago, Ill. Car-frame. No. 940,357; Nov. 16; Sp. p. 4240; Gaz. vol. 148; p. 715.
- Posson, E., Chicago, Ill. Underframe for railway-cars. No. 940,358; Nov. 16; Sp. p. 4241; Gaz. vol. 148; p. 715.
- Posson, E., Chicago, Ill., assignor to Grain Belt Car Specialty Company. Emergency car-coupling. No. 940,553; Nov. 16; Sp. p. 4691; Gaz. vol. 148; p. 780.
- Possons, M. A., Cleveland, Ohio. Needle-holder for sound-boxes. No. 931,957; Aug. 24; Sp. p. 4971; Gaz. vol. 145; p. 851.
- Post, A. L., assignor to Kent Machine Company, Kent, Ohio. Machine for molding building-blocks. No. 931,644; Aug. 17; Sp. p. 4221; Gaz. vol. 145; p. 724.
- Post, A. P. (See Spielman and Post.)
- Post, C. B., New London, Ohio. Detachable handle. No. 913,764; Mar. 2; Sp. p. 183; Gaz. vol. 140; p. 30.
- Post, E. K., Harrisburg, Pa. Interlocking switch and signal system. No. 923,702; June 1; Sp. p. 1296; Gaz. vol. 143; p. 202.
- Post, G. A., Chicago, Ill. Washing-machine. No. 923,888; June 8; Sp. p. 1762; Gaz. vol. 143; p. 294.
- Post, G. E., New York, N. Y. Ripping device. No. 936,474; Oct. 12; Sp. p. 1852; Gaz. vol. 147; p. 307.
- Post, G. W. (See Berry, W., assignor.)
- Post, P. W., assignor to Smith and Post Company, Milwaukee, Wis. Metal-cut-off saw. No. 937,544; Oct. 19; Sp. p. 4083; Gaz. vol. 147; p. 694.
- Post, S. B., assignor to L. C. Smith & Bros. Typewriter Company, Syracuse, N. Y. Ribbon mechanism for type-writing machines. No. 936,033; Oct. 5; Sp. p. 914; Gaz. vol. 147; p. 138.
- Post, T. W., New York, N. Y., assignor, by mesne assignments, to T. W. Post Company. Trunk or packing-box. No. 937,545; Oct. 19; Sp. p. 4086; Gaz. vol. 147; p. 694.
- Postans, A. J., assignor to Adder Cash Register Syndicate Limited, London, England. Indicator for cash-registers. No. 942,348; Dec. 7; Sp. p. 674; Gaz. vol. 149; p. 108.
- Postle, J., Winona, N. D. Wire-gate fastener. No. 916,368; Mar. 23; Sp. p. 5481; Gaz. vol. 140; p. 973.
- Poston, B. C., Chillicothe, Ohio. Press for tufting-machines. No. 917,657; Apr. 6; Sp. p. 1349; Gaz. vol. 141; p. 238.
- Poston, O., assignor of one-half to L. Munding, Ashley, Ill. Railway-crossing. No. 934,836; Sept. 21; Sp. p. 3739; Gaz. vol. 146; p. 650.
- Poteet, C. E., Kansas City, Mo. Automatic window-sash lock. No. 929,244; July 27; Sp. p. 5257; Gaz. vol. 144; p. 931.
- Poth, H., Brooklyn, N. Y. Speed-indicator. No. 908,495; Jan. 5; Sp. p. 123; Gaz. vol. 138; p. 23.
- Poth, H., Brooklyn, N. Y. Field-pole for dynamo-electric machines. No. 919,458; Apr. 27; Sp. p. 5364; Gaz. vol. 141; p. 927.
- Poths, F. J., Hamburg, Germany. Resilient wheel. No. 915,884; Mar. 23; Sp. p. 4587; Gaz. vol. 140; p. 814.
- Poths, F. J., Hamburg, Germany. Rotary kiln for burning cement. No. 929,167; July 27; Sp. p. 5104; Gaz. vol. 144; p. 907.
- Potman, G. J., Goor, Netherlands. Calendar for cloth. No. 937,546; Oct. 19; Sp. p. 4087; Gaz. vol. 147; p. 694.
- Potstada, G., San Francisco, Cal. Metal-shears. No. 939,627; Nov. 9; Sp. p. 2614; Gaz. vol. 148; p. 430.
- Potter, C. J., Wellington Quay, England. Manufacture of hydraulic cement. No. 917,129; Apr. 6; Sp. p. 350; Gaz. vol. 141; p. 62.
- Potter, D. J. (See Reiff, W. H., assignor.)
- Potter, F. A., and A. Louis, Newton, Mass., assignors to Lock-Bracket Manufacturing Co. Bracket. No. 914,974; Mar. 9; Sp. p. 2729; Gaz. vol. 140; p. 459.
- Potter, F. D., Linden, N. J. Superheater. No. 943,606; Dec. 14; Sp. p. 3354; Gaz. vol. 149; p. 566.
- Potter, G., Jr., Niagara Falls, N. Y. Burglar-alarm for railway-cars, &c. No. 914,508; Mar. 9; Sp. p. 1789; Gaz. vol. 140; p. 307.



*Alphabetical list of patentees—Continued.*

- Potter, G. E. (See Sauer and Potter.)
- Potter, H. J., Watertown, Mass. Vending apparatus. No. 925,595; June 22; Sp. p. 5227; Gaz. vol. 143; p. 920.
- Potter, H. J., Boston, assignor to Aseptic Drinking Cup Company, Cambridge, Mass. Hospital-cup. No. 909,020; Jan. 5; Sp. p. 1206; Gaz. vol. 138; p. 193.
- Potter, H. J., assignor to Aseptic Drinking Cup Company, Cambridge, Mass. Sputum-cup. No. 912,263; Feb. 9; Sp. p. 2512; Gaz. vol. 139; p. 432.
- Potter, H. J., assignor to Burnitol Manufacturing Company, Cambridge, Mass. Sputum-cup. No. 920,180; May 4; Sp. p. 172; Gaz. vol. 142; p. 27.
- Potter, J., assignor to M. G. Potter, Colorado Springs, Colo. Auxiliary gun-sight. No. 936,034; Oct. 5; Sp. p. 915; Gaz. vol. 147; p. 138.
- Potter, J. C., and J. Johnston, assignors to Potter and Johnston Machine Company, Pawtucket, R. I. Clutch. No. 916,195; Mar. 23; Sp. p. 5165; Gaz. vol. 140; p. 914.
- Potter, J. C., and J. Johnston, assignors to Potter and Johnston Machine Company, Pawtucket, R. I. Gearing. No. 942,843; Dec. 7; Sp. p. 1670; Gaz. vol. 149; p. 273.
- Potter, J. J., South Orange, assignor to Rubber & Celluloid Harness Trimming Co., Newark, N. J. Manufacture of brushes. No. 928,401; July 20; Sp. p. 3544; Gaz. vol. 144; p. 400.
- Potter, J. L., Indianapolis, Ind. Excavating or hoisting apparatus. No. 942,216; Dec. 7; Sp. p. 402; Gaz. vol. 149; p. 62.
- Potter, J. O. (See Haymond and Potter.)
- Potter, J. T. (See Potter, W. T., assignor.)
- Potter and Johnston Machine Company. (See Potter and Johnston, assignors.)
- Potter, M. G. (See Potter, J., assignor.)
- Potter, O. W., Wauconda, Ill. Folding chair. No. 910,229; Jan. 19; Sp. p. 3641; Gaz. vol. 138; p. 662.
- Potter, R. R., Weehawken Heights, N. J. Third-rail contact-shoe. No. 924,829; June 15; Sp. p. 3729; Gaz. vol. 143; p. 638.
- Potter, W. B., Schenectady, N. Y., assignor to General Electric Company. Third-rail anchorage. No. 909,335; Jan. 12; Sp. p. 1840; Gaz. vol. 138; p. 330.
- Potter, W. B., Schenectady, N. Y., assignor to General Electric Company. Jet-condenser. No. 912,167; Feb. 9; Sp. p. 2320; Gaz. vol. 139; p. 402.
- Potter, W. B., Schenectady, N. Y., assignor to General Electric Company. Electric cut-out. No. 921,732; May 18; Sp. p. 3374; Gaz. vol. 142; p. 600.
- Potter, W. S., assignor to Manganese Steel Rail Company, Mahwah, N. J. Producing finished shapes of manganese steel. No. 938,891; Nov. 2; Sp. p. 955; Gaz. vol. 148; p. 152.
- Potter, W. S., assignor to Manganese Steel Rail Company, Mahwah, N. J. Treating manganese steel ingots. No. 938,892; Nov. 2; Sp. p. 958; Gaz. vol. 148; p. 152.
- Potter, W. S., assignor to Manganese Steel Rail Company, Mahwah, N. J. Rolling manganese steel. No. 938,893; Nov. 2; Sp. p. 961; Gaz. vol. 148; p. 152.
- Potter, W. S., assignor to Manganese Steel Rail Company, Mahwah, N. J. Manganese steel. No. 939,084; Nov. 2; Sp. p. 1349; Gaz. vol. 148; p. 219.
- Potter, W. S., New York, N. Y., assignor to Manganese Steel Rail Company, Mahwah, N. J. Treating manganese steel. No. 939,163; Nov. 2; Sp. p. 1530; Gaz. vol. 148; p. 248.
- Potter, W. S., New York, N. Y., assignor to Manganese Steel Rail Company, Mahwah, N. J. Producing finished shapes from manganese steel. No. 939,164; Nov. 2; Sp. p. 1532; Gaz. vol. 148; p. 248.
- Potter, W. T., Dover, assignor to J. T. Potter, Little Creek, Del. Ironing-table. No. 931,217; Aug. 17; Sp. p. 3367; Gaz. vol. 145; p. 585.
- Potterton, J., Lynn, Mass. Hood for electrical wiring on stand-pipes. No. 939,165; Nov. 2; Sp. p. 1534; Gaz. vol. 148; p. 248.
- Potthoff, L., Flushing, N. Y. Electroplating apparatus. No. 941,535; Nov. 30; Sp. p. 6807; Gaz. vol. 148; p. 1153.
- Potthoff, W. F., Cincinnati, Ohio. Fireproof construction. No. 928,153; July 13; Sp. p. 2981; Gaz. vol. 144; p. 510.
- Potts, C., Morristown, N. J. Liquid-distributing apparatus. No. 935,231; Sept. 28; Sp. p. 4534; Gaz. vol. 146; p. 807.
- Potts, G. E. (See Wells and Potts.)
- Potts, H. G., and C. Hauber, Frankfurt, Ind. Signal-lantern. No. 937,646; Oct. 19; Sp. p. 4259; Gaz. vol. 147; p. 726.
- Potts, J., Winchester, Ohio. Aeroplane. No. 923,075; May 25; Sp. p. 6147; Gaz. vol. 142; p. 1066.
- Potts, J. R., Mechanicsburg, Pa. Latch-bolt for doors. No. 941,689; Nov. 30; Sp. p. 7126; Gaz. vol. 148; p. 1203.
- Potts, L. M., assignor to Rowland Telegraphic Company, Baltimore, Md. Automatic telegraph. No. 942,844; Dec. 7; Sp. p. 1672; Gaz. vol. 149; p. 274.
- Potts Powder Company. (See Wells and Potts, assignors.)
- Potts, T. W., London, England. Amusement apparatus. No. 916,590; Mar. 30; Sp. p. 5972; Gaz. vol. 140; p. 1071.
- Potts, T. W. and A. W. Lovell, London, England. Amusement device. No. 932,057; Aug. 24; Sp. p. 5185; Gaz. vol. 145; p. 884.
- Potwin, W. S. (See Staunton, G., assignor.)
- Pouch, F. D., Newcastle, Ind. Change-speed gearing. No. 941,727; Nov. 30; Sp. p. 7216; Gaz. vol. 148; p. 1217.
- Poul, J., New Bremen, N. Y. Pole-tip. No. 930,795; Aug. 10; Sp. p. 2403; Gaz. vol. 145; p. 416.
- Poulsen, S. P., Racine, Wis. Thread-guide for sewing-machines. No. 919,210; Apr. 20; Sp. p. 4634; Gaz. vol. 141; p. 809.
- Poulsen, J., Copenhagen, Denmark. Wireless signaling system. No. 929,487; July 27; Sp. p. 5761; Gaz. vol. 144; p. 1011.
- Poulsen, N., Brooklyn, N. Y. Window construction. No. 910,857; Jan. 26; Sp. p. 4953; Gaz. vol. 138; p. 895.
- Poulsen, P. O., Brigham, Utah. Explosion-turbine. No. 914,072; Mar. 2; Sp. p. 894; Gaz. vol. 140; p. 140.
- Pound, L. E., Mobile, Ala. Collapsible crate. No. 916,012; Mar. 23; Sp. p. 4833; Gaz. vol. 140; p. 855.
- Pounds, W. E., assignor of one-half to O. Day, Oakman, Ala. Nut-lock. No. 910,954; Jan. 26; Sp. p. 5141; Gaz. vol. 138; p. 926.
- Powel, H. W. H., and T. S. Safe, Newport, R. I. Device for clearing obstructions from the path of vehicles. No. 931,885; Aug. 24; Sp. p. 4777; Gaz. vol. 145; p. 826.
- Powell, A. M., Worcester, Mass. Metal-planing machine. No. 934,837; Sept. 21; Sp. p. 3742; Gaz. vol. 146; p. 650.
- Powell, A. M., Valdez, Alaska. Combined hammer and sight. No. 939,085; Nov. 2; Sp. p. 1351; Gaz. vol. 148; p. 220.
- Powell, A. W., New York, N. Y. Lady's garment. No. 908,496; Jan. 5; Sp. p. 130; Gaz. vol. 138; p. 23.
- Powell, A. W., New York, N. Y. Lady's garment. No. 940,987; Nov. 23; Sp. p. 5605; Gaz. vol. 148; p. 950.
- Powell, A. W., New York, N. Y. Head and back rest. No. 941,043; Nov. 23; Sp. p. 5738; Gaz. vol. 148; p. 969.
- Powell, A. W., and E. K. Lane, New York, N. Y. Hat-saver and hand-bag. No. 919,984; Apr. 27; Sp. p. 6456; Gaz. vol. 141; p. 1103.
- Powell, C., and J. Renwick, Higher Broughton, Salford, assignors to H. J. Packer & Company, Limited, Bristol, England. Means for supporting box-lids in an open position. No. 928,697; July 20; Sp. p. 4147; Gaz. vol. 144; p. 722.
- Powell, C. A. (See Johnston and Powell.)
- Powell, C. W., Ypsilanti, Mich. Belt-clasp. No. 911,329; Feb. 2; Sp. p. 604; Gaz. vol. 139; p. 103.
- Powell, E. K., Steubenville, Ohio. Horseshoe. No. 912,614; Feb. 16; Sp. p. 3296; Gaz. vol. 139; p. 591.
- Powell, E. W. B. (See Dettelbach and Powell.)
- Powell, F. D., Monroe, Mich. Support for incandescent electric lights. No. 933,664; Sept. 7; Sp. p. 1427; Gaz. vol. 146; p. 214.
- Powell, F. D., Chicago, Ill., assignor to American Coin Register Company. Coin-box for telephones. No. 929,629; July 27; Sp. p. 6044; Gaz. vol. 144; p. 1058.
- Powell, G. F., Sacramento, Cal. Safety-fastener. No. 924,104; June 8; Sp. p. 2162; Gaz. vol. 143; p. 361.
- Powell, G. F., Sacramento, Cal. Eyeglass-fastener. No. 930,612; Aug. 10; Sp. p. 2037; Gaz. vol. 145; p. 357.
- Powell, G. H., Arlington, N. J. Pivoted-law tool. No. 938,334; Oct. 26; Sp. p. 5732; Gaz. vol. 147; p. 976.
- Powell, M. P., Jr., Hilandale, Miss. Shaft-detaching device. No. 938,890; Nov. 2; Sp. p. 953; Gaz. vol. 148; p. 152.
- Powell, N. M., and J. L. Miller, Fairfield, Ill. Merry-go-round. No. 942,010; Nov. 30; Sp. p. 7799; Gaz. vol. 148; p. 1313.
- Powell, O. W., Hoopeson, Ill. Ironing-machine. No. 912,271; Feb. 9; Sp. p. 2535; Gaz. vol. 139; p. 435.
- Powell, R. E. (See Wurmfield and Wolpert, assignors.)
- Powell, R. H., Batesville, Ark. Combination farming implement. No. 910,149; Jan. 19; Sp. p. 3453; Gaz. vol. 138; p. 632.
- Powell, T. A., Carnegie, Pa. Wrench. No. 922,330; May 18; Sp. p. 4581; Gaz. vol. 142; p. 796.
- Powell, W. J., Coffeyville, Kans. Tool-holder. No. 941,272; Nov. 23; Sp. p. 6244; Gaz. vol. 148; p. 1045.
- Powell, W. W., Leesville, La. Sap-sput. No. 914,456; Mar. 9; Sp. p. 1697; Gaz. vol. 140; p. 291.
- Power, E. P., Cleveland, Ohio. Foundry-flask. No. 922,187; May 18; Sp. p. 4300; Gaz. vol. 142; p. 750.
- Power, J., Sibleyton, Miss. Cultivator. No. 929,488; July 27; Sp. p. 5761; Gaz. vol. 144; p. 1011.
- Power, J., Pueblo, Colo. Mold for casting metal pots, &c. No. 936,939; Oct. 12; Sp. p. 2772; Gaz. vol. 147; p. 464.
- Power and Mining Machinery Company. (See Bernhard, R., assignor.)
- Power and Mining Machinery Company. (See Loomis and Pettibone, assignors.)
- Power and Mining Machinery Company. (See Straub, C. L., assignor.)
- Power Specialty Company. (See Nutting, L. B., assignor.)
- Power & Speed Controller Company. (See Knight, C. Y., assignor.)
- Power, W. M. (See Ostergren, O. P., assignor.)
- Power, W. M., Portchester, N. Y. Governor for internal-combustion engines. No. 939,923; Nov. 9; Sp. p. 3243; Gaz. vol. 148; p. 534.
- Powers, C. R., Princeton, Wis. Dental suction-plate. No. 912,026; Feb. 9; Sp. p. 2052; Gaz. vol. 139; p. 357.

*Alphabetical list of patentees—Continued.*

- Powers, E. B., assignor to Powers Railway Safety Appliance Company, New York, N. Y. Air-brake. No. 918,470; Apr. 13; Sp. p. 3056; Gaz. vol. 141; p. 537.
- Powers, E. T. (See Heinrich, J., assignor.)
- Powers, E. W., Rochester, N. Y. Clothes-line reel. No. 924,933; June 15; Sp. p. 3939; Gaz. vol. 143; p. 673.
- Powers, H. M., Brunswick, Md. Ball-caster. No. 931,958; Aug. 24; Sp. p. 4973; Gaz. vol. 145; p. 851.
- Powers, J. M., Jr. (See Breckenridge, W. D., assignor.)
- Powers, J. M., and J. L. Boyd, St. Louis, Mo. Weather-strip for metal frames and sash. No. 918,591; Apr. 20; Sp. p. 3327; Gaz. vol. 141; p. 605.
- Powers, L. J., Waterloo, Iowa. Broom-holder. No. 915,886; Mar. 23; Sp. p. 4590; Gaz. vol. 140; p. 815.
- Powers, L. J., assignor to Powers Manufacturing Company, Waterloo, Iowa. Machine for stuffing horse-collars. No. 915,885; Mar. 23; Sp. p. 4588; Gaz. vol. 140; p. 814.
- Powers Manufacturing Company. (See Powers, L. J., assignor.)
- Powers Railway Safety Appliance Company. (See Powers, E. B., assignor.)
- Powers, T. A., Slack, Wyo. Screen for irrigating ditches. No. 944,907; Dec. 28; Sp. p. 6200; Gaz. vol. 149; p. 1066.
- Pozsonyi, J., Sewickley, Pa. Rolling-pin. No. 932,322; Aug. 24; Sp. p. 5702; Gaz. vol. 145; p. 972.
- Pozsonyi, J., Sewickley, Pa. Trap. No. 936,808; Oct. 12; Sp. p. 2522; Gaz. vol. 147; p. 421.
- Prahar, L. B., New York, N. Y. Safety-razor. No. 922,188; May 18; Sp. p. 4301; Gaz. vol. 142; p. 750.
- Prahar, L. B., New York, N. Y. Frame-joint and soldering the same. No. 943,370; Dec. 14; Sp. p. 2876; Gaz. vol. 149; p. 484.
- Prahm, A. F., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Lantern-burner. No. 931,342; Aug. 17; Sp. p. 3647; Gaz. vol. 145; p. 629.
- Prall, H. R., Philadelphia, Pa. Embroidering and darning attachment for sewing-machines. No. 913,847; Mar. 2; Sp. p. 336; Gaz. vol. 140; p. 60.
- Pramberger, V. (See Hruby, A., assignor.)
- Prante, O., West Hoboken, N. J. Braiding-machine. No. 920,994; May 11; Sp. p. 1835; Gaz. vol. 142; p. 325.
- Prather, H. C. (See Mock and Prather.)
- Pratt, A. C., Newark, N. J., assignor to General Electric Company. Bucket-wheel. No. 910,311; Jan. 19; Sp. p. 3839; Gaz. vol. 138; p. 692.
- Pratt, A. K. (See Owen and Pratt.)
- Pratt, A. L. (See King, J. F., assignor.)
- Pratt, C. C., Portland, Oreg. Combined ore crusher and pulverizer. No. 934,694; Sept. 21; Sp. p. 3468; Gaz. vol. 146; p. 604.
- Pratt, C. C. and E. C., Portland, Oreg. Vanner. No. 934,693; Sept. 21; Sp. p. 3465; Gaz. vol. 146; p. 603.
- Pratt, C. H., Helena, Mont. Watchmaker's tool. No. 937,960; Oct. 26; Sp. p. 4717; Gaz. vol. 147; p. 816.
- Pratt, C. T., Frankfort, N. Y. Outlet or junction box. No. 936,809; Oct. 12; Sp. p. 2523; Gaz. vol. 147; p. 421.
- Pratt, E. C. (See Pratt, C. C. and E. C.)
- Pratt, F. J., Jr., Minneapolis, Minn. Double-acting pump. No. 914,457; Mar. 9; Sp. p. 1698; Gaz. vol. 140; p. 291.
- Pratt, G. W. (See Mylott, J., assignor.)
- Pratt, H. E. (See Chamberlain, Pratt, and Hubbard.)
- Pratt, H. V. (See Singer and Pratt.)
- Pratt, H. V. (See Singer and Pratt.)
- Pratt, J., McKeesport, Pa. Automatic, odorless, self-cleaning street-inlet and water-closet flush. No. 931,481; Aug. 17; Sp. p. 3919; Gaz. vol. 145; p. 676.
- Pratt, J. R., Denison, Tex. Adjustable headlight-reflector. No. 915,477; Mar. 16; Sp. p. 3746; Gaz. vol. 140; p. 651.
- Pratt, J. S., U. S. Army. Wire-bender. No. 931,480; Aug. 17; Sp. p. 3917; Gaz. vol. 145; p. 676.
- Pratt, J. S., U. S. Army. Line-wire connector. No. 934,352; Sept. 14; Sp. p. 2787; Gaz. vol. 146; p. 464.
- Pratt, L. D., Red Oak, Iowa. Ventilator. No. 910,721; Jan. 26; Sp. p. 4682; Gaz. vol. 138; p. 851.
- Pratt, L. L., assignor to C. H. Wheeler Manufacturing Co., Philadelphia, Pa. Pump. No. 922,189; May 18; Sp. p. 4303; Gaz. vol. 142; p. 751.
- Pratt, P. W., Boston, assignor to C. F. Brown, trustee, Reading, Mass. Elastic tread for boots and shoes. No. 936,810; Oct. 12; Sp. p. 2524; Gaz. vol. 147; p. 421.
- Pratt, Read & Company. (See Cheney, G. L., assignor.)
- Pratt, S., Pasadena, Cal. Photo-exposure meter. No. 910,230; Jan. 19; Sp. p. 3642; Gaz. vol. 138; p. 662.
- Pratt, W. A., Grafton, W. Va. Water-heater. No. 924,105; June 8; Sp. p. 2164; Gaz. vol. 143; p. 361.
- Pratt, W. A., Stamford, Conn. Wrench. No. 936,035; Oct. 5; Sp. p. 916; Gaz. vol. 147; p. 139.
- Pratt, W. H., Lynn, Mass., assignor to General Electric Company. Meter. No. 917,130; Apr. 6; Sp. p. 350; Gaz. vol. 141; p. 62.
- Pratt, W. H., Lynn, Mass., assignor to General Electric Company. Recording instrument. No. 919,459; Apr. 27; Sp. p. 5370; Gaz. vol. 141; p. 927.
- Pratt, W. H., Lynn, Mass., assignor to General Electric Company. Recording instrument. No. 920,084; Apr. 27; Sp. p. 6686; Gaz. vol. 141; p. 1136.
- Pratt, W. L., Pimento, Ind. Churn. No. 920,645; May 4; Sp. p. 1112; Gaz. vol. 142; p. 181.
- Pratt & Whitney Company. (See Goodrich, C. L., assignor.)
- Pratt & Whitney Company. (See Grohmann, C. L., assignor.)
- Pratt & Whitney Company. (See Hanson, B. M. W., assignor.)
- Pratte, C. A., Denver, Colo., and O. A. Alexander, Philadelphia, Pa. Combination water-glass guard and lamp. No. 921,562; May 11; Sp. p. 3007; Gaz. vol. 142; p. 516.
- Prazak, E., Elizabeth, N. J., assignor to Singer Manufacturing Company. Overseaming sewing-machine. No. 939,548; Nov. 9; Sp. p. 2430; Gaz. vol. 148; p. 403.
- Preast, R. J., New York, N. Y. Cue. No. 941,728; Nov. 30; Sp. p. 7218; Gaz. vol. 148; p. 1217.
- Precision Appliance Company. (See Swanson, H. A., assignor.)
- Precision Glass Grinding Machine Company. (See Conradson, C. M., assignor.)
- Preddmore, W. H. E., Princeville, and J. Estell, Speer, Ill. Boot and shoe cleaner. No. 936,662; Oct. 12; Sp. p. 2244; Gaz. vol. 147; p. 372.
- Prelle, A. F. W., assignor of one-third to O. E. Woods, Bassett, Nebr. Rail brace and fastener. No. 940,554; Nov. 16; Sp. p. 4692; Gaz. vol. 148; p. 781.
- Prellwitz, W., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Channeling-machine. No. 916,013; Mar. 23; Sp. p. 4835; Gaz. vol. 140; p. 855.
- Premier Last Company. (See Prindle, E. J., assignor.)
- Prendergast, A. P., Baltimore, Md. Mechanism for vehicle lamps or headlights. No. 942,217; Dec. 7; Sp. p. 406; Gaz. vol. 149; p. 62.
- Prendergast, D. A., Blaine, Wash. Cattle-guard. No. 935,813; Oct. 5; Sp. p. 462; Gaz. vol. 147; p. 66.
- Prendergast, E. B., Scranton, Pa. Flat-iron heater. No. 930,417; Aug. 10; Sp. p. 1599; Gaz. vol. 145; p. 290.
- Prendergast, W. H., assignor of one-fourth to J. McCarthy and one-fourth to R. Fechner, Savannah, Ga. Track-sanding device. No. 940,476; Nov. 16; Sp. p. 4513; Gaz. vol. 148; p. 755.
- Prendes, R. G., Habana, Cuba. Printing-machine. No. 923,703; June 1; Sp. p. 1308; Gaz. vol. 143; p. 202.
- Prenosil, A. J., Yukon, Okla. Lamp. No. 915,795; Mar. 23; Sp. p. 4424; Gaz. vol. 140; p. 785.
- Prenovich, I. N., New York, N. Y. Railway-railsplice. No. 943,619; Dec. 14; Sp. p. 3424; Gaz. vol. 149; p. 571.
- Prentice Bros. Company. (See Newton, A. E., assignor.)
- Prentice, G. W., Providence, R. I. Lacing. No. 920,646; May 4; Sp. p. 1113; Gaz. vol. 142; p. 181.
- Prentice, G. W., Providence, R. I. Fabric for lacing-tips and the like and composition for the same. No. 939,313; Nov. 9; Sp. p. 1913; Gaz. vol. 148; p. 326.
- Prentice, H., Bellevue, Pa. Regenerator system for by-product coke-ovens. No. 920,647; May 4; Sp. p. 1114; Gaz. vol. 142; p. 182.
- Prentice, H., Bellevue, Pa. By-product retort coke-oven. No. 939,086; Nov. 2; Sp. p. 1352; Gaz. vol. 148; p. 220.
- Prentice, J. A. (See Meiser, J. A., assignor.)
- Prentice, J. A., et al. (See Santsche, E., assignor.)
- Prentice Manufacturing Company. (See Prentice, T., assignor.)
- Prentice, T., New Britain, assignor to Prentice Manufacturing Company, Middletown, Conn. Rule-joint. No. 909,819; Jan. 12; Sp. p. 2786; Gaz. vol. 138; p. 491.
- Prentiss, G. G. (See Esterling, W. M., assignor.)
- Prentiss, W. F., Ilford, England. Recessing-bit and pin-drill. No. 918,365; Apr. 13; Sp. p. 2843; Gaz. vol. 141; p. 503.
- Prentiss, G. L., Montclair, N. J. Firing furnaces. No. 931,645; Aug. 17; Sp. p. 4228; Gaz. vol. 145; p. 724.
- Prentiss, L. S., Oklahoma, Okla. Reversible supporting-plate for adjustable hinging-strips for doors. No. 925,505; June 22; Sp. p. 5050; Gaz. vol. 143; p. 889.
- Prepejchal, A. (See Schumann and Prepejchal.)
- Presba, H. L. (See Presba, J. F. and H. L.)
- Presba, J. F. and H. L., Holyoke, Colo. Lath-holder. No. 909,217; Jan. 12; Sp. p. 1618; Gaz. vol. 138; p. 291.
- Presbrey, E. W., New York, N. Y. Knockdown armature. No. 934,212; Sept. 14; Sp. p. 2529; Gaz. vol. 146; p. 417.



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- Prescott, A. T. (See Wolf, A. C., assignor.)  
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 Prescott, C. F., Philadelphia, Pa. Engine valve-gear. No. 922,036; May 18; Sp. p. 4009; Gaz. vol. 142; p. 701.  
 Prescott, C. F., and W. E. Kerns, assignors to Barber Asphalt Paving Company, Philadelphia, Pa. Machinery for heating and rolling bituminous pavements. No. 931,085; Aug. 17; Sp. p. 3081; Gaz. vol. 145; p. 540.  
 Prescott, G., Minneapolis, Minn. Furnace. No. 909,218; Jan. 12; Sp. p. 1620; Gaz. vol. 138; p. 291.  
 Prescott, J. O., Summit, N. J., and L. J. Schramek, New York, N. Y. Making sound-records. No. 913,765; Mar. 2; Sp. p. 185; Gaz. vol. 140; p. 31.  
 Prescott, S. I., assignor to International Cigar Machinery Company, New York, N. Y. Making cigar-bunches. No. 911,756; Feb. 9; Sp. p. 1445; Gaz. vol. 139; p. 269.  
 Prescott, S. I., assignor to American Tobacco Company, New York, N. Y. Machine for making paper tubes. No. 933,724; Sept. 7; Sp. p. 1560; Gaz. vol. 146; p. 236.  
 Preslar, C. F., Norwood, Ohio. Pump. No. 942,145; Dec. 7; Sp. p. 261; Gaz. vol. 149; p. 39.  
 Preslar, C. F., Norwood, Ohio. Operating mechanism for double-acting pumps. No. 943,201; Dec. 14; Sp. p. 2513; Gaz. vol. 149; p. 426.  
 Press Feeder Company. (See Motilau, A. J., assignor.)  
 Press, G. F., and J. W. Lewis, Spokane, Wash. Gearing. No. 910,574; Jan. 26; Sp. p. 4394; Gaz. vol. 138; p. 805.  
 Pressed Prism Plate Glass Company. (See Wadsworth, F. L. O., assignor.)  
 Pressed Steel Car Company. (See Allen, H., assignor.)  
 Pressed Steel Car Company. (See Bower, J. G., assignor.)  
 Pressed Steel Car Company. (See Ditchfield, F., assignor.)  
 Pressed Steel Car Company. (See Kling, P. M., assignor.)  
 Pressed Steel Car Company. (See Koch, F., assignor.)  
 Pressed Steel Car Company. (See Lindström, C. A., assignor.)  
 Pressed Steel Car Company. (See Peach, W. M., assignor.)  
 Pressed Steel Car Company. (See Streib, J. F., assignor.)  
 Pressed Steel Tank Company. (See Hackney, R. H., assignor.)  
 Pressed Wood Co. (See Foreman and Thornton, assignors.)  
 Pressey, C. A., assignor of one-half to M. B. Pressey, Dallas, Tex. Amusement apparatus. No. 930,613; Aug. 10; Sp. p. 2039; Gaz. vol. 145; p. 357.  
 Pressey, M. B. (See Pressey, C. A., assignor.)  
 Pressler, C. F., Fort Wayne, Ind. Dispensing-pump. No. 913,848; Mar. 2; Sp. p. 358; Gaz. vol. 140; p. 61.  
 Presson, B., Pittsburg, Kans. Screw-driver. No. 942,742; Dec. 7; Sp. p. 1470; Gaz. vol. 149; p. 241.  
 Prest, J. E., Melrose, Mass. Thread-guide for spinning and twisting machines. No. 910,312; Jan. 19; Sp. p. 3841; Gaz. vol. 138; p. 692.  
 Prest, J. E., Melrose, Mass. Loom-temple. No. 914,509; Mar. 9; Sp. p. 1792; Gaz. vol. 140; p. 307.  
 Prest, J. E., Melrose, Mass. Thread-guide for spinning or twisting machines. No. 929,009; July 27; Sp. p. 4775; Gaz. vol. 144; p. 854.  
 Preston, A. E., Battle Creek, Mich. Spraying-nozzle. No. 940,477; Nov. 16; Sp. p. 4515; Gaz. vol. 148; p. 755.  
 Preston, A. F., Boston, Mass. Machine for cutting sheet material. No. 938,788; Nov. 2; Sp. p. 724; Gaz. vol. 148; p. 117.  
 Preston, A. F., East Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Shoe-sewing machine. No. 929,707; Aug. 3; Sp. p. 137; Gaz. vol. 145; p. 25.  
 Preston, A. M., Buxton, Ga. Ice-shaver. No. 933,488; Sept. 7; Sp. p. 1089; Gaz. vol. 146; p. 156.  
 Preston, A. M., Buxton, Ga. Waist and skirt supporter. No. 941,207; Nov. 23; Sp. p. 6105; Gaz. vol. 148; p. 1024.  
 Preston, D. E., Chicago, Ill. Ash-sieve. No. 936,737; Oct. 12; Sp. p. 2387; Gaz. vol. 147; p. 397.  
 Preston, E. M., Deptford, and A. E. Kennard, Anerley, England. Apparatus for the electric lighting of railway-carriages. No. 921,454; May 11; Sp. p. 2797; Gaz. vol. 142; p. 481.  
 Preston, G. H., U. S. Army. Field-ration mess-kit. No. 911,442; Feb. 2; Sp. p. 800; Gaz. vol. 139; p. 139.  
 Preston, H. C., Jr., Fallston, Md. Spring-fork for bicycles. No. 934,013; Sept. 14; Sp. p. 2125; Gaz. vol. 146; p. 351.  
 Preston, H. C. and O., Hornell, N. Y. Beater for eggs, cream, custards, &c. No. 933,580; Sept. 7; Sp. p. 1264; Gaz. vol. 146; p. 186.  
 Preston, O. (See Preston, H. C. and O.)  
 Preston, W. A., and G. M. Duffie, Detroit, Mich. Centrifugal separator. No. 918,592; Apr. 20; Sp. p. 3328; Gaz. vol. 141; p. 605.  
 Prestwick, J. A., London, England. Carbureter for internal-combustion engines. No. 910,018; Jan. 19; Sp. p. 3196; Gaz. vol. 138; p. 590.  
 Prestwick, E. (See Prestwick, W. and E.)  
 Prestwick, W. and E., Lawrence, Mass. Apparatus for removing burs on worsted-cards. No. 924,379; June 8; Sp. p. 2804; Gaz. vol. 143; p. 456.  
 Pretorius, V. F., Canal Dover, Ohio. Street-sweeping machine. No. 926,709; June 29; Sp. p. 7495; Gaz. vol. 143; p. 1322.  
 Preuss, F. A., Green Garden precinct, Madison county, Nebr. Air-compressor. No. 939,314; Nov. 9; Sp. p. 1915; Gaz. vol. 148; p. 326.  
 Preuss, F. A., Green Garden township, Madison county, Nebr. Windmill. No. 940,057; Nov. 16; Sp. p. 3569; Gaz. vol. 148; p. 610.  
 Preuss, O., Elberfeld, Germany. Implement for raking, turning, and loading corn, hay, and the like. No. 933,785; Sept. 14; Sp. p. 1678; Gaz. vol. 146; p. 278.  
 Prevost, A. A., Mount Clemens, Mich. Electric motor. No. 934,462; Sept. 21; Sp. p. 3015; Gaz. vol. 146; p. 525.  
 Pribyl, F. J., Uniontown, Pa. Dealcoholizing beer. No. 935,814; Oct. 5; Sp. p. 464; Gaz. vol. 147; p. 66.  
 Price, A. J. (See Hansen and Price.)  
 Price, A. M., Elgin, Ill. Wrapping-machine. No. 942,101; Dec. 7; Sp. p. 143; Gaz. vol. 149; p. 23.  
 Price, A. M., Elgin, Ill., assignor, by mesne assignments, to A. E. Brion, New York, N. Y. Wrapping-machine. No. 931,646; Aug. 17; Sp. p. 4232; Gaz. vol. 145; p. 725.  
 Price, B., St. Louis, Mo. Shade-winder. No. 915,111; Mar. 16; Sp. p. 3016; Gaz. vol. 140; p. 532.  
 Price, C. B., *et al.* (See Palmer, G. E., assignor.)  
 Price, C. B., Pittsburg, Pa. Street-car. No. 927,871; July 13; Sp. p. 2436; Gaz. vol. 144; p. 416.  
 Price, C. B., Pittsburg, Pa. Street-car. (Reissue.) No. 13,003; Aug. 3; Sp. p. 1436; Gaz. vol. 145; p. 239.  
 Price, D. E., Youngstown, Ohio. Paper-rack. No. 918,196; Apr. 13; Sp. p. 2507; Gaz. vol. 141; p. 447.  
 Price, E. C., Gulfport, Miss. Household utensil. No. 928,537; July 20; Sp. p. 3818; Gaz. vol. 144; p. 669.  
 Price, E. C., and W. H. Thomas, assignors to Indianapolis Switch & Frog Company, Springfield, Ohio. Railway-frog. No. 934,213; Sept. 14; Sp. p. 2530; Gaz. vol. 146; p. 418.  
 Price, E. F., Niagara Falls, N. Y., assignor, by mesne assignments, to Central Trust Company of New York, trustee. Obtaining nickel from silicious ores. No. 909,666; Jan. 12; Sp. p. 2487; Gaz. vol. 138; p. 441.  
 Price, E. F., Niagara Falls, N. Y., assignor, by mesne assignments, to Central Trust Company of New York, trustee. Obtaining nickel from silicious ores. No. 909,667; Jan. 12; Sp. p. 2488; Gaz. vol. 138; p. 441.  
 Price, E. F., Niagara Falls, N. Y., assignor, by mesne assignments, to Central Trust Company of New York, trustee. Producing ferrol alloys. No. 942,349; Dec. 7; Sp. p. 677; Gaz. vol. 149; p. 109.  
 Price, E. F., Niagara Falls, N. Y., assignor to Electro Metallurgical Company, Chicago, Ill. Electric furnace. No. 942,350; Dec. 7; Sp. p. 679; Gaz. vol. 149; p. 109.  
 Price, E. F., assignor to Ohio Manufacturing Company, Upper Sandusky, Ohio. Alfalfa-harrow. No. 942,516; Dec. 7; Sp. p. 1023; Gaz. vol. 149; p. 165.  
 Price, F. L., *et al.* (See Poole, J. H., assignor.)  
 Price, F. M., *et al.* (See Edwards, I. L., assignor.)  
 Price, F. S., *et al.* (See Palmer, G. E., assignor.)  
 Price, F. V. B., *et al.* (See McCarthy, C. A., assignor.)  
 Price, G. A., assignor of three-fourths to J. B. Browning and G. L. Thacker, Chehalis, Wash. Painting apparatus. No. 927,572; July 13; Sp. p. 2437; Gaz. vol. 144; p. 416.  
 Price, G. W., Oakland, Cal. Gas-generator for explosive-engines. No. 918,197; Apr. 13; Sp. p. 2508; Gaz. vol. 141; p. 448.  
 Price, G. W., Oakland, Cal. Deep-well pump. No. 930,614; Aug. 10; Sp. p. 2040; Gaz. vol. 145; p. 357.  
 Price, H., and A. N. Hood, Boston, Mass. Extractor. No. 932,900; Aug. 31; Sp. p. 6902; Gaz. vol. 145; p. 1186.  
 Price, H. W., Toronto, Ontario, assignor of one-half to A. McPherson, Longford Mills, and one-half to W. R. P. Parker, Toronto, Canada. Automatic electric block-signal system. No. 923,296; June 1; Sp. p. 426; Gaz. vol. 143; p. 60.  
 Price, H. W., Toronto, Ontario, assignor of one-half to A. McPherson, Longford Mills, and one-half to W. R. P. Parker, Toronto, Canada. Automatic train controlling and signaling mechanism for block-signal systems. No. 923,297; June 1; Sp. p. 434; Gaz. vol. 143; p. 61.  
 Price, J. O., Mark Center, Ohio. Draft-equalizer. No. 916,194; Mar. 23; Sp. p. 5164; Gaz. vol. 140; p. 914.  
 Price, J. R., Newark, N. J. Carburetor. No. 944,048; Dec. 21; Sp. p. 4334; Gaz. vol. 149; p. 747.  
 Price-McKinlock Company. (See Palmer, G. E., assignor.)  
 Price, R. J., New Castle, Pa. Rail-joint. No. 933,581; Sept. 7; Sp. p. 1265; Gaz. vol. 146; p. 187.  
 Price, S. A., Lucas, Iowa. Fan. No. 918,593; Apr. 20; Sp. p. 3330; Gaz. vol. 141; p. 605.  
 Price, T. M., and J. S. Richard, Itasca, Tex. Bundle-tie. No. 911,677; Feb. 9; Sp. p. 1305; Gaz. vol. 139; p. 243.

*Alphabetical list of patentees—Continued.*

- Price, W. A., Toronto, Ontario, Canada. Fastener for stair-carpet. No. 936,940; Oct. 12; Sp. p. 2775; Gaz. vol. 147; p. 464.
- Price, W. L., Newark, and H. E. Schenck, East Orange, N. J. Hame. No. 942,351; Dec. 7; Sp. p. 680; Gaz. vol. 149; p. 109.
- Price, W. R., Chicago, Ill. Cabinet and show-case lock. No. 909,933; Jan. 19; Sp. p. 3035; Gaz. vol. 138; p. 562.
- Price, W. T., Buffalo, N. Y. Electrical-clutch machine. No. 919,460; Apr. 27; Sp. p. 5373; Gaz. vol. 141; p. 927.
- Price, W. T., Wheeling, W. Va., assignor, by mesne assignments, to International Brick Machine Company, Binghamton, N. Y. Machine for forming plastic material. No. 929,981; Aug. 3; Sp. p. 758; Gaz. vol. 145; p. 121.
- Prieger, J., and T. J. Bartow, Manzanola, Colo. Seeding device. No. 939,087; Nov. 2; Sp. p. 1354; Gaz. vol. 148; p. 220.
- Prichett, F., Fort Madison, Iowa. Valve for flushing-tanks. No. 934,353; Sept. 14; Sp. p. 2788; Gaz. vol. 146; p. 464.
- Prickett, C. E., Allegheny, Pa. Window-cleaning apparatus. No. 942,743; Dec. 7; Sp. p. 1471; Gaz. vol. 149; p. 241.
- Priddle, A., San Francisco, Cal. Fireproof construction. No. 944,502; Dec. 28; Sp. p. 5327; Gaz. vol. 149; p. 928.
- Pride, C. A., Tompkinsville, N. Y. Faucet. No. 916,591; Mar. 30; Sp. p. 5974; Gaz. vol. 140; p. 1072.
- Pride, G. H., New York, N. Y. Electrical connection. No. 913,160; Feb. 23; Sp. p. 4400; Gaz. vol. 139; p. 795.
- Pride, G. R. (See Sperring and Pride.)
- Pride, J. M., and J. D. Davenport, Staunton, Va. Ironing-table. No. 933,390; Sept. 7; Sp. p. 809; Gaz. vol. 146; p. 125.
- Prier, G. H., New York, N. Y. Measuring-line. No. 909,668; Jan. 12; Sp. p. 2488; Gaz. vol. 138; p. 441.
- Pries, H., Michigan City, Ind. Car-bolster. No. 914,073; Mar. 2; Sp. p. 896; Gaz. vol. 140; p. 140.
- Pries, H., Michigan City, Ind. Dump-car. No. 916,592; Mar. 30; Sp. p. 5975; Gaz. vol. 140; p. 1072.
- Pries, H., Michigan City, Ind. Dump-car. No. 928,698; July 20; Sp. p. 4148; Gaz. vol. 144; p. 723.
- Pries, H., Michigan City, Ind. Refrigerator-car. No. 939,315; Nov. 9; Sp. p. 1916; Gaz. vol. 145; p. 326.
- Pries, H., Michigan City, Ind. Truck-bolster for railway-cars. No. 944,818; Dec. 28; Sp. p. 6016; Gaz. vol. 149; p. 1036.
- Priest, E. D., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 918,594; Apr. 20; Sp. p. 3331; Gaz. vol. 141; p. 605.
- Priest, E. M., administratrix. (See Langford, J. T., assignor.)
- Priest, F. B., et al. (See Gilson, H. R., assignor.)
- Priest, H. R., Loudonville, Ohio. Button for suction-cups. No. 912,977; Feb. 16; Sp. p. 4035; Gaz. vol. 139; p. 708.
- Priestman, A., Philadelphia, Pa. Apparatus for controlling the application and relief of pressure to tanks and other appliances. No. 914,673; Mar. 9; Sp. p. 2152; Gaz. vol. 140; p. 361.
- Priestman, A., Philadelphia, Pa. Apparatus for controlling the flow of liquids. No. 922,629; May 25; Sp. p. 5213; Gaz. vol. 142; p. 923.
- Primbs, G., Johannesburg, Transvaal. Machine for manufacturing box-shells. No. 915,380; Mar. 16; Sp. p. 3555; Gaz. vol. 140; p. 620.
- Primeau, M. (See Dier and Primeau.)
- Primm, D. M., Athens, Ill. Brood-coop. No. 916,014; Mar. 23; Sp. p. 4837; Gaz. vol. 140; p. 856.
- Primm, J. Q., Lincoln, Ill. Gate. No. 936,738; Oct. 12; Sp. p. 2389; Gaz. vol. 147; p. 398.
- Primrose, J. (See Foster and Primrose.)
- Prims, J. C., assignor to J. C. Prims Machinery Company, Battle Creek, Mich. Cooker. No. 928,795; July 20; Sp. p. 4333; Gaz. vol. 144; p. 755.
- Prince, C. O. (See Murphy, W. F., assignor.)
- Prince, J. N. (See Prince, R. J. A. and J. N.)
- Prince, R. J. A. and J. N., St. Boniface, Manitoba, Canada. Engine. No. 908,886; Jan. 5; Sp. p. 943; Gaz. vol. 138; p. 150.
- Prince, W. F., Elizabeth, N. J. Melting metal chips and apparatus therefor. No. 935,686; Oct. 5; Sp. p. 135; Gaz. vol. 147; p. 22.
- Prindle, E. J., Washington, D. C., assignor to Premier Last Company, Great River, Long Island, N. Y. Forming lasts. No. 912,027; Feb. 9; Sp. p. 2053; Gaz. vol. 139; p. 358.
- Prindle, H. A., Philadelphia, Pa. Centrifugal pump. No. 928,327; July 20; Sp. p. 3417; Gaz. vol. 144; p. 601.
- Pringle, C. A., Chihuahua, Mexico, assignor to Calera Mining Company. Apparatus for screening, sizing, and classifying granular material. No. 936,102; Oct. 5; Sp. p. 1177; Gaz. vol. 147; p. 179.
- Pringle, P. J., Burton-upon-Trent, England. Apparatus for cleansing the rails of tramways and railways. No. 916,015; Mar. 23; Sp. p. 4838; Gaz. vol. 140; p. 856.
- Pringle, R. W., London, England. Wheel. No. 912,615; Feb. 16; Sp. p. 3297; Gaz. vol. 139; p. 591.
- Pringle, W. A., assignor to Carter-Crume Co., Limited, Niagara Falls, N. Y. Speed-changing mechanism. No. 937,034; Oct. 12; Sp. p. 2979; Gaz. vol. 147; p. 495.
- Printup, G., Lynchburg, Va. Lamp-oscillator. No. 923,996; June 8; Sp. p. 1976; Gaz. vol. 143; p. 325.
- Prinz, F., Milwaukee, Wis. Making grading-reels. No. 937,861; Oct. 26; Sp. p. 4718; Gaz. vol. 147; p. 816.
- Prinz, W. H., Chicago, Ill. Apparatus for drying malt. No. 937,011; Oct. 12; Sp. p. 2923; Gaz. vol. 147; p. 486.
- Prinz, W. H., Chicago, Ill. Apparatus for drying malt. No. 937,012; Oct. 12; Sp. p. 2927; Gaz. vol. 147; p. 487.
- Prior, O., Milford, Mich. Rolling toy. No. 941,946; Nov. 30; Sp. p. 7677; Gaz. vol. 148; p. 1293.
- Prisant, L., assignor of one-half to B. Cohn, Albany, Ga. Watch-balance-staff supporter. No. 943,890; Dec. 21; Sp. p. 3992; Gaz. vol. 149; p. 692.
- Pritchard, A. H., Toronto, Ontario, Canada. Apparatus for making soap. No. 910,083; Jan. 19; Sp. p. 3323; Gaz. vol. 138; p. 611.
- Pritchard, A. R., Rochester, N. Y. Lantern-head. No. 935,324; Sept. 28; Sp. p. 4725; Gaz. vol. 146; p. 838.
- Pritchard, A. R., Rochester, N. Y. Washboiler. No. 935,325; Sept. 28; Sp. p. 4727; Gaz. vol. 146; p. 838.
- Pritchard, D., and A. Beam, Sumner, Nebr. Oscillating gate. No. 920,492; May 4; Sp. p. 801; Gaz. vol. 142; p. 130.
- Pritchard, H. (See Pritchard, J. and H.)
- Pritchard, J. and H., London, England. Photographic pressure-printing frame. No. 920,648; May 4; Sp. p. 1116; Gaz. vol. 142; p. 182.
- Pritchard-Strong Company. (See Kline, D. C., assignor.)
- Pritchard-Strong Company. (See Satter, F. A., assignor.)
- Pritchard, W. E. (See Kirkham, J., assignor.)
- Pritchett, J. F., assignor of one-half to J. D. and J. Z. Johnston, Brundidge, Ala. Set for forming plow-scrapers. No. 936,353; Oct. 12; Sp. p. 1561; Gaz. vol. 147; p. 267.
- Pritschau, F. A., assignor of one-fourth to R. Bell and one-fourth to W. E. Hanson, Toledo, Ohio. Insulating-piston for steam-engines. No. 925,224; June 15; Sp. p. 4526; Gaz. vol. 143; p. 772.
- Probasco, A. B., Turtle Creek township, Warren county, Ohio. Tool for forming wire joints. No. 940,823; Nov. 23; Sp. p. 5283; Gaz. vol. 148; p. 896.
- Probasco, W. M., New York, N. Y., assignor, by mesne assignments, to New Haven Clock Company, trustee. Coin-controlled mechanism. No. 919,948; Apr. 27; Sp. p. 6385; Gaz. vol. 141; p. 1091.
- Probst, F., Elizabeth, N. J. Protractor. No. 935,860; Oct. 5; Sp. p. 562; Gaz. vol. 147; p. 81.
- Prochaska, E., Alton, Ill. Coal or ore washer. No. 942,461; Dec. 7; Sp. p. 911; Gaz. vol. 149; p. 146.
- Prochaska, F., assignor to Siemens & Halske, A. G., Berlin, Germany. Interdependent signal and switch apparatus for railways. No. 928,004; July 13; Sp. p. 2700; Gaz. vol. 144; p. 461.
- Proctor, B. A., New York, N. Y., assignor to Cee-Bap Manufacturing Company. Moving-picture machine. No. 937,174; Oct. 19; Sp. p. 3279; Gaz. vol. 147; p. 371.
- Proctor, J. A., and M. H. Elkin, Rutland, Vt. Continuous railway-ticket and holder for same. No. 936,354; Oct. 12; Sp. p. 1562; Gaz. vol. 147; p. 267.
- Producer Gas Utilities Company. (See Harvey, C. A., assignor.)
- Proffitt, E. H., Radford, Va. Core. No. 928,538; July 20; Sp. p. 3820; Gaz. vol. 144; p. 670.
- Proffitt, J. T., St. David, Ariz. Ter. Chimney-cowl. No. 927,072; July 6; Sp. p. 788; Gaz. vol. 144; p. 125.
- Progress Typewriter Supply Co. (See Weiniger, H., assignor.)
- Pröll, F., Urfahr, Austria-Hungary. Numbering-hammer. No. 920,995; May 11; Sp. p. 1836; Gaz. vol. 142; p. 325.
- Prollius, B. A. O., Copenhagen, Denmark. Centrifugal separator. No. 922,037; May 18; Sp. p. 4011; Gaz. vol. 142; p. 701.
- Prollius, B. A. O., Copenhagen, Denmark. Liner for centrifugal separators. No. 922,038; May 18; Sp. p. 4012; Gaz. vol. 142; p. 701.
- Prometheus Electric Co. (See Bölling, F., assignor.)
- Prosser, W. S., San Jose, Cal. Voting-machine. No. 914,184; Mar. 2; Sp. p. 1138; Gaz. vol. 140; p. 178.
- Protal Company. (See Wiechmann, F. G., assignor.)
- Protheroe, H., H. Smith, Swissvale, and G. W. Way, Wilkensburg, Pa. Rail-joint. No. 938,272; Oct. 26; Sp. p. 5588; Gaz. vol. 147; p. 955.
- Prott, W., et al. (See Isgrig, G. F., assignor.)
- Protz J. (See Lindenthaler and Protz.)
- Protzman, J. C. (See Longenecker and Protzman.)
- Proudfoot, R. A. (See Owen, J. G., assignor.)
- Proulx, J. B. (See Marengo, W. E., assignor.)
- Proust, W. A., Branford, Conn. Putty-knife. No. 912,028; Feb. 9; Sp. p. 2056; Gaz. vol. 139; p. 358.
- Proutt, F. G., Memphis, Tenn. Electric-switch-controlling system. No. 928,068; July 13; Sp. p. 2833; Gaz. vol. 144; p. 483.
- Prouty, E., Chicago, Ill. Car-truck. No. 921,455; May 11; Sp. p. 2803; Gaz. vol. 142; p. 481.
- Prouty, T. C., assignor to Wilcox Manufacturing Company, Aurora, Ill. Foot-scraper. No. 923,997; June 8; Sp. p. 1979; Gaz. vol. 143; p. 328.



*Alphabetical list of patentees—Continued.*

- Prouty, T. C., assignor to Wilcox Manufacturing Company, Aurora, Ill. Door-hanger truck-frame. No. 931,799; Aug. 24; Sp. p. 4610; Gaz. vol. 145; p. 799.
- Provencher, N., Manchester, N. H. Combined shade-bracket and curtain-pole support. No. 929,010; July 27; Sp. p. 4778; Gaz. vol. 144; p. 854.
- Provost, D., *et al.* (See Wood, J., assignor.)
- Provost, P., Milwaukee, Wis. Grain-drier. No. 940,190; Nov. 16; Sp. p. 3866; Gaz. vol. 148; p. 656.
- Prowse, C. O., Hopkinsville, Ky. Automatic fuse-block. No. 913,933; Mar. 2; Sp. p. 526; Gaz. vol. 140; p. 85.
- Prowse, G. R., Montreal, Quebec, Canada. Apparatus for generating and superheating steam. No. 920,181; May 4; Sp. p. 174; Gaz. vol. 142; p. 28.
- Proximity Manufacturing Company *et al.* (See Thigpen, K., assignor.)
- Pruden, H. B., *et al.* (See Bane and Crane, assignors.)
- Prudhomme, M. R., New York, N. Y. Curling-iron. No. 922,949; May 25; Sp. p. 5895; Gaz. vol. 142; p. 1027.
- Pruessman, A., assignor to Western Electric Company, Chicago, Ill. Condenser. No. 923,889; June 8; Sp. p. 1764; Gaz. vol. 143; p. 294.
- Prugh, J. H., assignor to American Floor Surfacing Machine Company, Toledo, Ohio. Surfacing and polishing machine. No. 928,154; July 13; Sp. p. 2985; Gaz. vol. 144; p. 511.
- Pruitt, O. M. (See Harris, O. E., assignor.)
- Pruitt, W. B. (See Davis, W. L., assignor.)
- Pruitt, W. B., Tallassee, Ala. Combined cotton-chopper and row-cleaner. No. 921,886; May 18; Sp. p. 3694; Gaz. vol. 142; p. 651.
- Prunner, O. A., assignor to Buhl Stamping Company, Detroit, Mich. Lantern-reflector. No. 931,482; Aug. 17; Sp. p. 3921; Gaz. vol. 145; p. 676.
- Prun, M., Sacramento, Cal. Weed-cutter and cultivator. No. 942,744; Dec. 7; Sp. p. 1474; Gaz. vol. 149; p. 241.
- Prybil, A. (See Dette, M. H., assignor.)
- Pryke, J. (See Rawsthorne and Pryke.)
- Pryke, J. (See Rawsthorne and Pryke.) (Reissue.)
- Prym, A., Stolberg, Germany. Machine for the manufacture of buttons. No. 916,593; Mar. 30; Sp. p. 5976; Gaz. vol. 140; p. 1072.
- Prym, A., Stolberg, Germany. Automatic machine for manufacturing lower parts of press-studs. No. 921,160; May 11; Sp. p. 2164; Gaz. vol. 142; p. 381.
- Pryor, J. C., North Bay, Ontario, Canada. Extracting silver from its ores. No. 918,908; Apr. 20; Sp. p. 4065; Gaz. vol. 141; p. 713.
- Pailander, C. A., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Torque-opposing device. No. 937,329; Oct. 19; Sp. p. 3593; Gaz. vol. 147; p. 621.
- Puciarelli, G., Jersey City, N. J. Lotion. No. 928,539; July 20; Sp. p. 3822; Gaz. vol. 144; p. 670.
- Puckett, F. R., *et al.* (See Simmons, W. M., assignor.)
- Puckett, J. W. (See Cogswell and Puckett.)
- Puckett, W. J., assignor of one-half to F. Waldie, Mancelona, Mich. Crate. No. 943,565; Dec. 14; Sp. p. 3278; Gaz. vol. 149; p. 552.
- Puddington, A. W., Cleveland, Ohio. Regulating mechanism for furnaces. No. 912,616; Feb. 16; Sp. p. 3300; Gaz. vol. 139; p. 591.
- Pudrith, C. L., Warren, Ohio. Combined chair and couch. No. 935,861; Oct. 5; Sp. p. 564; Gaz. vol. 147; p. 81.
- Puff, C., Spandau, Germany. Percussion-fuse. No. 910,575; Jan. 26; Sp. p. 4398; Gaz. vol. 138; p. 806.
- Puffer, A. W., Medford, Mass., assignor to Puffer Manufacturing Company. Grinding-wheel. No. 927,164; July 6; Sp. p. 962; Gaz. vol. 144; p. 156.
- Puffer, A. W., Medford, and G. W. Hayes, Winchester, Mass., assignors to Puffer Manufacturing Company. Grinder-head. No. 931,483; Aug. 17; Sp. p. 3921; Gaz. vol. 145; p. 677.
- Puffer, C. C., assignor to Pfaudler Co., Rochester, N. Y. Packing. No. 923,890; June 8; Sp. p. 1766; Gaz. vol. 143; p. 294.
- Puffer, C. C., assignor to Pfaudler Company, Rochester, N. Y. Closure-fitting. No. 922,508; May 25; Sp. p. 4948; Gaz. vol. 142; p. 882.
- Puffer, C. C., assignor to Pfaudler Company, Rochester, N. Y. Manhole-closure. No. 939,628; Nov. 9; Sp. p. 2616; Gaz. vol. 148; p. 431.
- Puffer, F. A., Porter, Mich. Auxiliary oven-rack. No. 917,131; Apr. 6; Sp. p. 356; Gaz. vol. 141; p. 62.
- Puffer Manufacturing Company. (See Murphy, E. E., assignor.)
- Puffer Manufacturing Company. (See Puffer, A. W., assignor.)
- Puffer Manufacturing Company. (See Puffer and Hayes, assignors.)
- Pugatsky, M., and S. Mannes, New York, N. Y. Safety-pocket. No. 924,380; June 8; Sp. p. 2807; Gaz. vol. 143; p. 456.
- Pugatsky, M., H. Wilkenfeld, and S. Mannes, New York, N. Y. Clasp-fastener. No. 941,096; Nov. 23; Sp. p. 5846; Gaz. vol. 148; p. 986.
- Pugh, J. H., New York, N. Y. Handhold for bath-tub rims. No. 921,733; May 18; Sp. p. 3376; Gaz. vol. 142; p. 601.
- Pugh, J. H., New York, N. Y. Foothold for bath-tubs. No. 921,734; May 18; Sp. p. 3377; Gaz. vol. 142; p. 601.
- Pulfrich, C., assignor to Firm of Carl Zeiss, Jena, Germany. Glass-measuring scale. No. 917,132; Apr. 6; Sp. p. 357; Gaz. vol. 141; p. 62.
- Pulfrich, C., assignor to Firm of Carl Zeiss, Jena, Germany. Telemeter for two successive observations. No. 941,812; Nov. 30; Sp. p. 7410; Gaz. vol. 148; p. 1244.
- Pullen, A., Chicago, Ill. Belt-perforating gage. No. 911,608; Feb. 9; Sp. p. 1141; Gaz. vol. 139; p. 220.
- Pullen, J. M., Ash Grove, Mo. Picture-frame fastening. No. 908,608; Jan. 5; Sp. p. 375; Gaz. vol. 138; p. 60.
- Pullen, J. M., Ozark, Mo. Temperature-regulating apparatus. No. 939,858; Nov. 9; Sp. p. 3094; Gaz. vol. 148; p. 511.
- Pullen, J. M., Ozark, Mo. Tripod. No. 939,859; Nov. 9; Sp. p. 3095; Gaz. vol. 148; p. 511.
- Pullen, L. W., Philadelphia, Pa. Puzzle. No. 933,509; Nov. 2; Sp. p. 139; Gaz. vol. 145; p. 22.
- Pulleys, G., New York, N. Y. Outlet-box. No. 915,381; Mar. 16; Sp. p. 3560; Gaz. vol. 140; p. 620.
- Pulliam, L. K., Pensacola, Fla. Pump. No. 912,888; Feb. 16; Sp. p. 3855; Gaz. vol. 139; p. 680.
- Pulliam, O. S., assignor to Pittsburgh Equipment Company, Pittsburg, Pa. Car-truck end-casting construction. No. 909,021; Jan. 5; Sp. p. 1208; Gaz. vol. 138; p. 193.
- Pulliam, O. S., assignor to Pittsburgh Equipment Company, Pittsburg, Pa. Side-frame construction. No. 909,022; Jan. 5; Sp. p. 1209; Gaz. vol. 138; p. 194.
- Pulliam, O. S., assignor to Pittsburgh Equipment Company, Pittsburg, Pa. Car-body-underframe construction. No. 929,245; July 27; Sp. p. 5259; Gaz. vol. 144; p. 931.
- Pulliam, O. S., assignor to Pittsburgh Equipment Company, Pittsburg, Pa. Draft-carrier and body-bolster construction. No. 929,246; July 27; Sp. p. 5260; Gaz. vol. 144; p. 932.
- Pullinger, J., Richmond, Ind., assignor to Chatfield & Woods Sack Co., Cincinnati, Ohio. Auger attachment for flour-packers. No. 912,410; Feb. 16; Sp. p. 2866; Gaz. vol. 139; p. 520.
- Pullman Automatic Ventilator Mfg. Company. (See Birstock, W. W., assignor.)
- Pullman Company. (See Dumb and Berg, assignors.)
- Pullman, L. F., Chicago, Ill. Back-rest for children. No. 909,453; Jan. 12; Sp. p. 2061; Gaz. vol. 138; p. 367.
- Pulsifer, H. D. (See Hopkins, M. K., assignor.)
- Pulsifer, J. R., Rochester, N. Y., assignor to Pulsifer Paper Company, Portland, Me. Slitting-machine. No. 929,876; Aug. 3; Sp. p. 537; Gaz. vol. 145; p. 86.
- Pulsifer Paper Company. (See Pulsifer, J. R., assignor.)
- Pulvermacker, A. (See Bade, E., assignor.)
- Pumpelly, J. K., assignor of one-half to E. M. Van Norstran, Indianapolis, Ind. Battery-grid. No. 927,812; July 13; Sp. p. 2307; Gaz. vol. 144; p. 398.
- Pumphrey, C. H., *et al.* (See Hallwood, H. S., assignor.)
- Pumphrey, F. W., Owensboro, Ky. Eraser. No. 921,456; May 11; Sp. p. 2804; Gaz. vol. 142; p. 482.
- Punch, D. T. (See Punch, S. C., D. T., and J. C.)
- Punch, J. C. (See Punch, S. C., D. T., and J. C.)
- Punch, S. C., D. T., and J. C., assignors to Cotto-Waxo Chemical Company, St. Louis, Mo. Composition for laying, collecting, or absorbing dust. No. 944,276; Dec. 28; Sp. p. 4811; Gaz. vol. 149; p. 849.
- Punderford, J. K., New Haven, Conn. Vehicle-lamp. No. 925,720; June 22; Sp. p. 5499; Gaz. vol. 143; p. 959.
- Punderford, J. K., New Haven, Conn. Vehicle-lamp. No. 925,721; June 22; Sp. p. 5500; Gaz. vol. 143; p. 959.
- Pupke, A. W., New York, N. Y. Variable-speed mechanism. No. 908,697; Jan. 5; Sp. p. 562; Gaz. vol. 138; p. 88.
- Purcell, E. and S., Pontefract, England. Cartridge for mining purposes. No. 910,722; Jan. 26; Sp. p. 4683; Gaz. vol. 138; p. 851.
- Purcell, J., Sydney, Nova Scotia, Canada. Cheese-cutter. No. 922,039; May 18; Sp. p. 4013; Gaz. vol. 142; p. 701.
- Purcell, R. C., Oakland, Cal. Deep-well pump. No. 911,609; Feb. 9; Sp. p. 1142; Gaz. vol. 139; p. 220.
- Purcell, S. (See Purcell, E. and S.)
- Purdue, G., East Orange, N. J. Receptacle for flowers. No. 930,615; Aug. 10; Sp. p. 2045; Gaz. vol. 145; p. 358.
- Purdum, S. E., Macomb, Ill. Adjustable handle-bar bracket. No. 921,457; May 11; Sp. p. 2806; Gaz. vol. 142; p. 482.
- Purdy, F., Chicago, Ill. Time-stop. No. 917,893; Apr. 13; Sp. p. 1873; Gaz. vol. 141; p. 342.
- Purdy, H. E., assignor of three-tenths to himself, three-tenths to J. H. Bradt, one-tenth to T. W. McCrary, one-tenth to E. Z. Smith, one-tenth to A. F. Dean, and one-tenth to G. L. Brower, Rockwell City, Iowa. Husking-rollers. No. 937,715; Oct. 19; Sp. p. 4407; Gaz. vol. 147; p. 748.

*Alphabetical list of patentees—Continued.*

- Purdy, M. E., Ridgefield Park, N. J. Comb. No. 941,586; Nov. 30; Sp. p. 6905; Gaz. vol. 148; p. 1168.
- Purkeypille, O. C., Ashland, Oreg. Stamp-mill. No. 934,354; Sept. 14; Sp. p. 2790; Gaz. vol. 146; p. 464.
- Purple, G. E., assignor to Flexible Steel Lacing Company, Chicago, Ill. Belt-coupling. No. 938,511; Nov. 2; Sp. p. 142; Gaz. vol. 148; p. 22.
- Purple, G. E., A. B. Beach, Chicago, Ill., and W. H. Trout, Milwaukee, Wis., assignors to Flexible Steel Lacing Company, Chicago, Ill. Belt-coupling. No. 938,510; Nov. 2; Sp. p. 140; Gaz. vol. 148; p. 22.
- Purse, D. G., Jr. (See Terheun, R. A., assignor.)
- Pursell, W. W., Pittston, Pa. Attachment for mitering-machines. No. 936,355; Oct. 12; Sp. p. 1564; Gaz. vol. 147; p. 267.
- Purser, J. E., Windsor, Ontario, Canada, assignor, by mesne assignments, to H. J. Morehead, Detroit, Mich. Steam-trap. No. 911,268; Feb. 2; Sp. p. 489; Gaz. vol. 139; p. 84.
- Purviance, N. M., Chicago, Ill. Wall-paper-hanging machine. No. 944,049; Dec. 21; Sp. p. 4337; Gaz. vol. 149; p. 747.
- Purviance, N. M., assignor to Time Saver Company, Spokane, Wash. Magazine tack-hammer. No. 932,412; Aug. 24; Sp. p. 5865; Gaz. vol. 145; p. 1001.
- Purvis, G. H. (See Ellis, Purvis, and Creech.)
- Puryear, L., Mebane, N. C., assignor to E. J. McKnight, Gardner, Mass., H. W. Bason, Mebane, N. C., and L. G. McKnight, Gardner, Mass. Fabric. No. 922,811; May 25; Sp. p. 5585; Gaz. vol. 142; p. 981.
- Pusch, F. (See Wade, Erickson, and Pusch.)
- Pusher, G. D., Weston, Mass. Tool for painters. No. 926,894; July 6; Sp. p. 394; Gaz. vol. 144; p. 64.
- Pusher, G. D., Weston, Mass. Making brushes. No. 935,326; Sept. 28; Sp. p. 4728; Gaz. vol. 146; p. 839.
- Pusterla, A., Bathbeach, Long Island, assignor to S. Schenkein, New York, N. Y. Bath-house key. No. 917,894; Apr. 13; Sp. p. 1878; Gaz. vol. 141; p. 342.
- Puterbaugh, J., *et al.* (See Perry, C. S., assignor.)
- Putman, G. V., Gloversville, assignor to J. D. Rogers, Jamestown, N. Y. Flue-expander. No. 908,497; Jan. 5; Sp. p. 132; Gaz. vol. 138; p. 24.
- Putman, S. (See Wilcox and Putman.)
- Putman, W. C., Saginaw, Tex. Buggy-top support. No. 926,604; June 29; Sp. p. 7296; Gaz. vol. 143; p. 1288.
- Putnam, C. A., Tupper Lake, N. Y. Band-saw wheel. No. 942,588; Dec. 7; Sp. p. 1161; Gaz. vol. 149; p. 189.
- Putnam, C. W., assignor to B. F. Perkins and Son, Incorporated, Holyoke, Mass. Strength-testing machine. No. 924,625; June 8; Sp. p. 3289; Gaz. vol. 143; p. 536.
- Putnam Development Company. (See Trembore, M., assignor.)
- Putnam, F. A., Melrose, assignor to Sewing Machine Supplies Company, Boston, Mass. Tag-holder for shoe-racks. No. 909,219; Jan. 12; Sp. p. 1622; Gaz. vol. 138; p. 271.
- Putnam, F. A., Melrose, assignor to Sewing Machine Supplies Company, Boston, Mass. Timer. No. 925,649; June 22; Sp. p. 5350; Gaz. vol. 143; p. 937.
- Putnam, F. A., Melrose, and L. L. Livingston, Abington, assignors to Sewing Machine Supplies Company, Boston, Mass. Knife-handle. No. 913,161; Feb. 23; Sp. p. 4403; Gaz. vol. 139; p. 796.
- Putnam, J., *et al.* (See Bennett, G. L., assignor.)
- Putnam, J. W., Grand Rapids, Mich. Folding box. No. 940,941; Nov. 23; Sp. p. 5523; Gaz. vol. 148; p. 935.
- Putnam, R., Corcoran, Cal. Fuel-feeding apparatus. No. 941,587; Nov. 30; Sp. p. 6907; Gaz. vol. 148; p. 1169.
- Putney, F. L., Sunshine, Wyo. Skinning and dissecting knife. No. 912,411; Feb. 16; Sp. p. 2868; Gaz. vol. 139; p. 520.
- Putney, F. L., Sunshine, Wyo. Locking device for emergency exit-doors. No. 919,634; Apr. 27; Sp. p. 5741; Gaz. vol. 141; p. 988.
- Putney, F. L., Sunshine, Wyo. Gun-sight. No. 919,635; Apr. 27; Sp. p. 5743; Gaz. vol. 141; p. 988.
- Putney, F. L., Sunshine, Wyo. Stirrup. No. 932,574; Aug. 31; Sp. p. 6227; Gaz. vol. 145; p. 1079.
- Putney, F. L., Sunshine, Wyo. Bullet-mold. No. 936,475; Oct. 12; Sp. p. 1854; Gaz. vol. 147; p. 307.
- Putney, M., Coleman, Tex. Dressmaker's skirt-measuring device. No. 910,084; Jan. 19; Sp. p. 3325; Gaz. vol. 138; p. 612.
- Putois, C. (See Oudinot and Putois.)
- Putt, H. O., Millbury, Ohio. Telegraphic key or transmitter. No. 912,029; Feb. 9; Sp. p. 2056; Gaz. vol. 139; p. 358.
- Puttkammer, K., Gross-Lichterfelde, near Berlin, F. Orthmann, Charlottenburg, and J. Schindler, assignors to Normal-Zeit Gesellschaft mit beschränkter Haftung, Berlin, Germany. Electromagnetic winding-gear for clocks and the like. No. 929,011; July 27; Sp. p. 4779; Gaz. vol. 144; p. 854.
- Putz, T., assignor to Porterville Cement Company, Porterville, Cal. Means for making cement head-gates. No. 915,698; Mar. 16; Sp. p. 4226; Gaz. vol. 140; p. 728.
- Pye, T. P., Everett, Wash. Automatic wood-saw. No. 909,454; Jan. 12; Sp. p. 2063; Gaz. vol. 138; p. 367.
- Pyle, J. F. (See Millhouse, E. D., assignor.)
- Pyle, R. H., Indianapolis, Ind. Arc-lamp. No. 937,386; Oct. 19; Sp. p. 3729; Gaz. vol. 147; p. 639.
- Pym, C. F., Essex, Ontario, Canada, assignor of one-half to Krentler Bros. Co., Detroit, Mich. Lasting-machine. No. 938,512; Nov. 2; Sp. p. 144; Gaz. vol. 148; p. 22.
- Pym, C. F., Essex, Ontario, Canada, assignor of one-half to Krentler Brothers Co., Detroit, Mich. Lasting-machine. No. 938,513; Nov. 2; Sp. p. 153; Gaz. vol. 148; p. 23.
- Pym, C. F., Essex, Ontario, Canada, assignor of one-half to Krentler Brothers Company, Detroit, Mich. Lasting-machine. No. 938,514; Nov. 2; Sp. p. 160; Gaz. vol. 148; p. 23.
- Pym, C. F., Essex, Ontario, Canada, assignor to Krentler-Arnold Hinge Last Company, Detroit, Mich. Locking collapsible last. No. 939,860; Nov. 9; Sp. p. 3097; Gaz. vol. 148; p. 511.
- Pyper, A. C. (See Allen and Pyper.)
- Pyramid Post and Pole Company. (See Denning, J. M., assignor.)
- Q & H Co. (See Mathews, F., assignor.)
- Q & H Company. (See Elliott, P. M., assignor.)
- Quack, E., and F. V. D. Woude, Berlin, Germany, assignors to F. W. Pixley and H. Allen, London, England. Receiving system for electrical oscillations. No. 936,163; Oct. 5; Sp. p. 1181; Gaz. vol. 147; p. 179.
- Quackenbush, L. G., Chicago, Ill. Bay-window. No. 912,617; Feb. 16; Sp. p. 3305; Gaz. vol. 139; p. 592.
- Quackenbush, H. M., Herkimer, N. Y. Nut-cracker. No. 930,796; Aug. 10; Sp. p. 2404; Gaz. vol. 145; p. 417.
- Quaintance, E. E., assignor to Permutation Lock and Novelty Manufacturing Company, Denver, Colo. Permutation-lock. No. 917,133; Apr. 6; Sp. p. 357; Gaz. vol. 141; p. 62.
- Quaker City Pneumatic Tool Co. (See Graham, F. S., assignor.)
- Quaker Manufacturing Company. (See Hunt, T. E., assignor.)
- Quaker Shade Roller Company. (See Janes, W. D., assignor.)
- Quandt, T., Porst, Pomerania, and W. Wolff, Grünwald, near Neustettin, Germany. Safety device for stopping vehicles. No. 936,279; Oct. 5; Sp. p. 1394; Gaz. vol. 147; p. 216.
- Quantz, F. W., Vincennes, Ind. Pulp-refining engine. No. 933,582; Sept. 7; Sp. p. 1266; Gaz. vol. 146; p. 187.
- Quaresima, O., and J. Voll, Hazleton, Pa. Non-refillable bottle. No. 912,978; Feb. 16; Sp. p. 4036; Gaz. vol. 139; p. 708.
- Quarles, T. M., assignor of one-half to D. B. Chamberlain, Washington, D. C. Hypodermic syringe. No. 922,331; May 18; Sp. p. 4582; Gaz. vol. 142; p. 796.
- Quattlebaum, L., Decatur, Miss. Switch. No. 925,225; June 15; Sp. p. 4527; Gaz. vol. 143; p. 772.
- Quay, J. J., *et al.* (See Vosburgh, H. E., assignor.)
- Queen & Co. (See Hodge, W. B., assignor.)
- Queen, J. N., Toledo, Ill. Stovepipe-holder. No. 931,086; Aug. 17; Sp. p. 3083; Gaz. vol. 145; p. 541.
- Queenan, W., and C. Murphy, Aurora, Ill. Freight-car-roof construction. No. 919,461; Apr. 27; Sp. p. 5375; Gaz. vol. 141; p. 928.
- Quentell, W. P., Stamford, Conn. Calculating-machine. No. 912,729; Feb. 16; Sp. p. 3569; Gaz. vol. 139; p. 630.
- Quentin, A., Paris, France. Advertising or display apparatus. No. 943,994; Dec. 21; Sp. p. 4234; Gaz. vol. 149; p. 729.
- Quenzer, A., Brooklyn, N. Y. Ankle-supporter. No. 921,563; May 11; Sp. p. 3009; Gaz. vol. 142; p. 517.
- Quereau, H. J., Baldwinville, N. Y. Reinforced concrete. No. 918,366; Apr. 13; Sp. p. 2844; Gaz. vol. 141; p. 503.
- Quertier, H., Dunedin, New Zealand. Track-cleaner. No. 936,256; Oct. 5; Sp. p. 1348; Gaz. vol. 147; p. 207.
- Quertimont, J. J., Point Marion, Pa. Process and apparatus for making plate, window, or wire glass. No. 911,678; Feb. 9; Sp. p. 1307; Gaz. vol. 139; p. 244.
- Quertimont, J. J., Point Marion, Pa. Molding-frame for making sheet, plate, or wire glass. No. 911,679; Feb. 9; Sp. p. 1309; Gaz. vol. 139; p. 244.
- Quertimont, J. J., Point Marion, Pa. Method and apparatus for making wire-glass. No. 936,663; Oct. 12; Sp. p. 2246; Gaz. vol. 147; p. 373.
- Quertimont, J. J., Point Marion, Pa. Apparatus for making sheet or plate glass. No. 936,664; Oct. 12; Sp. p. 2247; Gaz. vol. 147; p. 373.
- Quertimont, J. J., Point Marion, Pa. Process and apparatus for making wire-glass. No. 936,665; Oct. 12; Sp. p. 2249; Gaz. vol. 147; p. 373.
- Quesnell, C. (See Anderson and Quesnell.)
- Quick, H. P., Brooklyn, assignor to V. D. Moody and C. S. Hamner, New York, N. Y. Indicator. No. 931,484; Aug. 17; Sp. p. 3923; Gaz. vol. 145; p. 677.



*Alphabetical list of patentees—Continued.*

- Quick, J. A., *et al.* (See Jones and Gill, assignors.)  
 Quigg, W. F. (See Dennler, A. G., assignor.)  
 Quiggin, D. A., Liverpool, England. Apparatus for condensing steam. No. 925,506; June 22; Sp. p. 5052; Gaz. vol. 143; p. 890.  
 Quigley, E. J., Newark, N. J., assignor to Olus Manufacturing Company, New York, N. Y. Combination-garment. No. 908,802; Jan. 5; Sp. p. 771; Gaz. vol. 138; p. 121.  
 Quigley, J. T., San Francisco, Cal. Labor-cost-recording device. No. 932,575; Aug. 31; Sp. p. 6229; Gaz. vol. 145; p. 1079.  
 Quigley, S., assignor of one-half to F. I. Johnson, Fitchburg, Mass. Dental instrument. No. 940,058; Nov. 16; Sp. p. 3570; Gaz. vol. 148; p. 611.  
 Quigley, W. D. (See Gay and Quigley.)  
 Quigley, W. D., and P. Meyer, Newark, N. J. Rotary engine. No. 917,792; Apr. 13; Sp. p. 1667; Gaz. vol. 141; p. 309.  
 Quill, J. A., Eureka, Cal. Rotary engine. No. 939,861; Nov. 9; Sp. p. 3101; Gaz. vol. 148; p. 512.  
 Quillot, M., Montigny-sur-Vingeanne, assignor to Compagnie Francaise des Produits Fixator, Paris, France. Stoppering bottles, jars, and the like. No. 926,895; July 6; Sp. p. 395; Gaz. vol. 144; p. 64.  
 Quimby, C. E., assignor to Standard Optical Company, Geneva, N. Y. Lens-polishing machine. No. 940,988; Nov. 23; Sp. p. 5607; Gaz. vol. 148; p. 950.  
 Quin, J., Houtzdale, Pa. Ventilating system for mines. No. 911,525; Feb. 2; Sp. p. 958; Gaz. vol. 139; p. 167.  
 Quin, W. H., Swansea, Ontario, Canada. Sander for rolling-stock. No. 929,877; Aug. 3; Sp. p. 539; Gaz. vol. 145; p. 86.  
 Quinby, W., White Plains, N. Y. Culinary utensil. No. 940,059; Nov. 16; Sp. p. 3572; Gaz. vol. 148; p. 611.  
 Quincy Brass Works. (See Parizek, F., assignor.)  
 Quincy Foundry & Novelty Company. (See Hansen, F. C., assignor.)  
 Quincy, Manchester, Sargent Company. (See McCarthy, J., assignor.)  
 Quincy, Manchester, Sargent Company. (See Smith, E. M., assignor.)  
 Quincy, S. J., Sioux City, Iowa, assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Tabulating mechanism. No. 922,812; May 25; Sp. p. 5586; Gaz. vol. 142; p. 981.  
 Quinlan, J. D., and G. Mulvaney, New York, N. Y. Clothes-drier. No. 934,569; Sept. 21; Sp. p. 3208; Gaz. vol. 146; p. 559.  
 Quinley, C. M., Philadelphia, Pa. Pipe-wrench. No. 915,699; Mar. 16; Sp. p. 4228; Gaz. vol. 140; p. 729.  
 Quinn, J., Montreal, Quebec, Canada. Fare-box. No. 940,727; Nov. 23; Sp. p. 5066; Gaz. vol. 148; p. 865.  
 Quint, W., Wilmersdorf, near Berlin, Germany. Packing for tubes of surface condensers. No. 937,547; Oct. 19; Sp. p. 4089; Gaz. vol. 147; p. 695.  
 Quirk, T. J., Buffalo, N. Y. Guard or protector for locomotive-cabs, &c. No. 919,379; Apr. 27; Sp. p. 5192; Gaz. vol. 141; p. 900.  
 Quisenberry, T. M., Winchester, Ky. Skirt-regulator. No. 929,787; Aug. 3; Sp. p. 327; Gaz. vol. 145; p. 56.  
 Quisling, R. H., Christiania, Norway. Fuse-adjusting device. No. 922,813; May 25; Sp. p. 5597; Gaz. vol. 142; p. 982.  
 Qviller, T. (See Stub and Qviller.)  
 R. Kvist, N. C., and W. H. Nordström, Horsens, Denmark. Paving-rammer. No. 914,603; Mar. 9; Sp. p. 1992; Gaz. vol. 140; p. 340.  
 R. Elliott Company. (See Bevington, J. H., assignor.)  
 R. Neumann Hardware Co. (See Isidor, J. S., assignor.)  
 R. Neumann Hardware Co. (See Lysaght, C. J., assignor.)  
 R. E. Dietz Company. (See Betts, C. L., assignor.)  
 R. E. Dietz Company. (See Everett, E. C., assignor.)  
 R. E. Dietz Company. (See Nilson and Olson, assignors.)  
 R. E. Dietz Company. (See Wright, F. K., assignor.)  
 R. K. Le Blond Machine Tool Company. (See Le Blond and Groene, assignors.)  
 R. P. K. Specialty Company. (See Reach, M. B., assignor.)  
 Raab, E. F., Levallois-Perret, France. Turbine. No. 935,403; Sept. 28; Sp. p. 4877; Gaz. vol. 146; p. 863.  
 Rabbitt, J. E. (See Aggas and Rabbitt.)  
 Raber, O. P., and R. L., and J. E. Lang, and F. M. Wiltout, Corunna, Ind. Mold filling and tamping apparatus. No. 911,757; Feb. 9; Sp. p. 1447; Gaz. vol. 139; p. 269.  
 Raber, R. L. (See Raber, Lang, and Wiltout.)  
 Rabich, W., assignor of one-third to P. Rothe, St. Louis, Mo. Folding furniture. No. 909,820; Jan. 12; Sp. p. 2788; Gaz. vol. 138; p. 491.  
 Rabiger, E. H. (See Davis and Rabiger.)  
 Rabinovitch, J. J., Philadelphia, Pa. Shirt. No. 935,687; Oct. 5; Sp. p. 137; Gaz. vol. 147; p. 23.  
 Rabinowitz, L. (See Stolper, J., assignor.)  
 Rabold, W. H., *et al.* (See Hullett, D. I., assignor.)  
 Raby, J. E., Negaunee, Mich. Metallic railway-tie. No. 909,220; Jan. 12; Sp. p. 1623; Gaz. vol. 138; p. 292.  
 Race, N. W., Cody, Wyo. Barber's shears. No. 919,211; Apr. 20; Sp. p. 4635; Gaz. vol. 141; p. 809.  
 Rachelman, S., assignor to Northern Placer Machine Company, St. Paul, Minn. Apparatus for washing out placer-gold. No. 942,663; Dec. 7; Sp. p. 1313; Gaz. vol. 149; p. 215.  
 Rachmann, H., Haida, Austria-Hungary. Atomizer for perfumes and other liquids. No. 932,718; Aug. 31; Sp. p. 6547; Gaz. vol. 145; p. 1128.  
 Racine Economy Spring Company. (See Austin, F. B., assignor.)  
 Racine Gas Engine Company. (See Rasmussen, A., assignor.)  
 Racine Paper Goods Company. (See Parmenter, O. L., assignor.)  
 Rackmyer, J. H., Aurora, Ill. Milk-ticket holder. No. 912,412; Feb. 16; Sp. p. 2869; Gaz. vol. 139; p. 520.  
 Rada, J., Jennings, Kans. Hog-chute. No. 944,379; Dec. 28; Sp. p. 5029; Gaz. vol. 149; p. 885.  
 Radcliff, C. A., assignor of one-half to W. R. McLaughlin, Waterloo, Iowa. Foldable conveyer. No. 908,609; Jan. 5; Sp. p. 376; Gaz. vol. 138; p. 61.  
 Radcliff, C. A., assignor of one-half to W. R. McLaughlin, Waterloo, Iowa. Foldable loader. No. 943,099; Dec. 14; Sp. p. 2319; Gaz. vol. 149; p. 394.  
 Radcliff, J. N., deceased, near Cale, Ind.; W. H. Radcliff, administrator. Scythe-snathe. No. 928,883; July 20; Sp. p. 4512; Gaz. vol. 144; p. 786.  
 Radcliff, W. H., administrator. (See Radcliff, J. N.)  
 Radcliffe, C., Barnesboro, Pa. Nut-lock. No. 919,212; Apr. 20; Sp. p. 4636; Gaz. vol. 141; p. 809.  
 Radebaugh, G. (See Garwood, G. B., assignor.)  
 Radebaugh, J. A. (See Bartholomew, C. M., assignor.)  
 Radebaugh, J. A., Columbus, Ohio. Marble shooter or gun. No. 925,944; June 22; Sp. p. 5986; Gaz. vol. 143; p. 1034.  
 Rademacher, F., Prague-Karolinenthal, Austria-Hungary. Preparing zinc formaldehyde sulfoxylate. No. 935,815; Oct. 5; Sp. p. 465; Gaz. vol. 147; p. 66.  
 Rademacher, F., assignor of one-half to J. Maier, deceased, (M. Maier, executrix,) and G. Zobelein, Los Angeles, Cal. Liquid-fuel-supplying apparatus. No. 931,647; Aug. 17; Sp. p. 4245; Gaz. vol. 145; p. 725.  
 Rader, H. S., Palmerton, Pa. Center-bearing. No. 939,443; Nov. 9; Sp. p. 2217; Gaz. vol. 148; p. 368.  
 Rader, W. J., Otterbein, Ind. Railway-signal. No. 928,328; July 20; Sp. p. 3419; Gaz. vol. 144; p. 602.  
 Radernacher, J. L., New York, N. Y. Spring for furniture. No. 917,793; Apr. 13; Sp. p. 1669; Gaz. vol. 141; p. 309.  
 Raders, J. F., assignor, by mesne assignments, of five-eighths to J. L. Phillips and S. H. Weil, New York, N. Y. Automatic photographing-machine. No. 931,485; Aug. 17; Sp. p. 3925; Gaz. vol. 145; p. 677.  
 Radford, H. L., assignor to Grout Brothers Automobile Company, Orange, Mass. Timer and distributor. No. 923,442; June 1; Sp. p. 746; Gaz. vol. 143; p. 110.  
 Radin, M., *et al.* (See Rosenbaum and Voglhut, assignors.)  
 Radley, G. R., Milwaukee, Wis. Portable electric light. No. 914,975; Mar. 9; Sp. p. 2731; Gaz. vol. 140; p. 460.  
 Radley, G. R., Milwaukee, Wis. Protection for electric meters. No. 920,649; May 4; Sp. p. 1117; Gaz. vol. 142; p. 182.  
 Radtke, A. A., Chicago, Ill. Time-indicating system. No. 921,280; May 11; Sp. p. 2432; Gaz. vol. 142; p. 423.  
 Rady, D. J., *et al.* (See Fitzgerald, T. P., assignor.)  
 Rae, A., assignor to J. F. Rae, McKeesport, Pa. Brush-holder. No. 917,964; Apr. 13; Sp. p. 2021; Gaz. vol. 141; p. 363.  
 Rae Electric Company. (See Rae, F. B., assignor.)  
 Rae, F. B., New York, N. Y., assignor, by mesne assignments, to Rae Electric Company. Air-brake. No. 920,389; May 4; Sp. p. 614; Gaz. vol. 142; p. 97.  
 Rae, F. B., Detroit, Mich., assignor, by mesne assignments, to Rae Electric Company. Electric brake. No. 926,605; June 29; Sp. p. 7297; Gaz. vol. 143; p. 1288.  
 Rae, J. F. (See Rae, A., assignor.)  
 Raehn, F. J., Pittsburg, Pa. Adjustable support for sinks. No. 939,741; Nov. 9; Sp. p. 2858; Gaz. vol. 148; p. 471.  
 Rafalovich, L., New York, N. Y., assignor to S. B. R. Specialty Company. Muffler cut-out for explosive-engines. No. 942,011; Nov. 30; Sp. p. 7801; Gaz. vol. 148; p. 1313.  
 Rafferty, C. (See Cunniff and Rafferty.)

*Alphabetical list of patentees—Continued.*

- Rafferty, C. W. (See Woolf and Rafferty.)
- Rafferty, T., Cleveland, Ohio. Inking attachment for printing-presses. No. 918,595; Apr. 20; Sp. p. 3333; Gaz. vol. 141; p. 606.
- Raforth, F. D., assignor to L. O. Hillyard, Dubuque, Iowa. Window-sash lock. No. 925,650; June 22; Sp. p. 5351; Gaz. vol. 143; p. 957.
- Raforth, F. D., assignor to L. O. Hillyard, Dubuque, Iowa. Disinfectant apparatus. No. 926,961; July 6; Sp. p. 532; Gaz. vol. 144; p. 87.
- Rafter, J. M., New York, N. Y. Sectional or sheet piling. No. 933,665 Sept. 7; Sp. p. 1429; Gaz. vol. 146; p. 214.
- Ragan, W. E. (See Small, E. F., assignor.)
- Ragounnet, E. L., Bowdoinham, Me., assignor to Burnham, Williams & Company, Philadelphia, Pa. Controlling mechanism for locomotives. No. 930,225; Aug. 3; Sp. p. 1234; Gaz. vol. 145; p. 204.
- Rahe, A., assignor to K. & Th. Möller Gesellschaft mit beschränkter Haftung, Brackwede, Germany. Filter. No. 930,561; Aug. 10; Sp. p. 2928; Gaz. vol. 145; p. 340.
- Rahm, R. C., assignor to Textile Machine Works, Wyomissing, Pa. Braiding-machine. No. 933,339; Sept. 7; Sp. p. 692; Gaz. vol. 146; p. 107.
- Rahm, R. C., assignor to Textile Machine Works, Wyomissing, Pa. Sectional braiding-machine. No. 933,340; Sept. 7; Sp. p. 693; Gaz. vol. 146; p. 108.
- Rahm, R. C., assignor to Textile Machine Works, Wyomissing, Pa. Braiding-machine. No. 933,341; Sept. 7; Sp. p. 694; Gaz. vol. 146; p. 108.
- Rahm, R. C., assignor to Textile Machine Works, Wyomissing, Pa. Braiding-machine. No. 936,256; Oct. 12; Sp. p. 1566; Gaz. vol. 147; p. 268.
- Rahm, R. C., assignor to Textile Machine Works, Wyomissing, Pa. Braiding-machine. No. 936,257; Oct. 12; Sp. p. 1567; Gaz. vol. 147; p. 268.
- Rahm, R. E., Dallas, Tex. Automatic baling-press. No. 930,083; Aug. 3; Sp. p. 966; Gaz. vol. 145; p. 157.
- Rahmgren, C., Chariton, Iowa. Bolt-holder for railway-rail joints. No. 921,281; May 11; Sp. p. 2435; Gaz. vol. 142; p. 423.
- Rahtjen, A. (See Stephen and Rahtjen.)
- Rail Joint Company. (See Armstrong, V. C., assignor.)
- Rail Joint Company. (See Braine, B. G., assignor.)
- Rail Joint Company. (See Dalton, P. J., assignor.)
- Rail Joint Company. (See Schermerhorn, E. F., assignor.)
- Rail Joint Company. (See Smith, R. W., assignor.)
- Rail Joint Company. (See Stanford, A. L., assignor.)
- Rail Joint Company. (See Weber, G. A., assignor.)
- Rail Joint Company. (See Weeks, C. A., assignor.)
- Rail Joint Company. (See Wolhaupter, B., assignor.)
- Rail Joint Company. (See Wolhaupter and Braine, assignors.)
- Railway Journal Lubricator Company. (See Smith, J. G., assignor.)
- Railway Materials Company. (See Bourne, G. L., assignor.)
- Railway Supplies Limited. (See Sullivan, E. A., assignor.)
- Railways Surface Contact Supplies Company. (See Stephens, W. M., assignor.)
- Rainalter, R., St. Joseph, Mo. Washing-machine. No. 921,282; May 11; Sp. p. 2437; Gaz. vol. 142; p. 424.
- Rainey, F. (See Gurwitch and Rainey.)
- Rains, E. I., New York, N. Y. Electrical steam-generator. No. 944,050; Dec. 21; Sp. p. 4338; Gaz. vol. 149; p. 748.
- Rains, S. B. (See Keeton J., assignor.)
- Raiter, C., Breckenridge, Minn. Switch-stand. No. 941,813; Nov. 30; Sp. p. 7412; Gaz. vol. 148; p. 1246.
- Raithel, C. H. (See Raithel, J. J. and C. H.)
- Raithel, J. J. and C. H., St. Louis, Mo. Clothes-line clamp. No. 921,458; May 11; Sp. p. 2807; Gaz. vol. 142; p. 482.
- Rak, A., Ceský-Brod, Austria-Hungary. Hydraulic weighing-machine for liquids. No. 936,358; Oct. 12; Sp. p. 1568; Gaz. vol. 147; p. 268.
- Rakowicz, P., Griesheim, assignor to Chemische Fabrik Griesheim-Elektron, Frankfurt-on-the-Main, Germany. Preparation of iron or steel for casting. No. 927,678; July 13; Sp. p. 2034; Gaz. vol. 144; p. 354.
- Rall, C. P., Williamsport, Pa. Sign-holding apparatus. No. 944,150; Dec. 21; Sp. p. 4553; Gaz. vol. 149; p. 781.
- Ralph, J. E. (See Stickney, B. R., assignor.)
- Ralph, J. E., Newark, N. J. Card attachment. No. 941,273; Nov. 23; Sp. p. 6246; Gaz. vol. 148; p. 1046.
- Ralph, J. G., Aurora, Ill. Hinge for storm-sash, &c. No. 913,429; Feb. 23; Sp. p. 4952; Gaz. vol. 139; p. 886.
- Ralph, T. W., North Augusta, Ontario, Canada. Telephone detector device. No. 940,359; Nov. 16; Sp. p. 4242; Gaz. vol. 148; p. 715.
- Ralston, H. H., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Commutator construction. No. 911,758; Feb. 9; Sp. p. 1450; Gaz. vol. 139; p. 270.
- Ralston Steel Car Company. (See Becker, A., assignor.)
- Ralston Steel Car Company. (See Irwin, F. L., assignor.)
- Ralston Steel Car Company. (See Irwin and Tesseymann, assignors.)
- Ralston Steel Car Company. (See Tesseymann, J. E., assignor.)
- Ralston, W. A., assignor to Caldwell Manufacturing Company, Rochester, N. Y. Door-check. No. 917,357; Apr. 6; Sp. p. 815; Gaz. vol. 141; p. 139.
- Ramapo Iron Works. (See Hopper, T. M., assignor.)
- Rambeau, R. F. C., Parthenay, France. Beating and kneading machine. No. 913,766; Mar. 2; Sp. p. 187; Gaz. vol. 140; p. 31.
- Rambo, C. A., *et al.* (See Clow, W. C., assignor.)
- Ramboux, L., Erquelinnes, Belgium. Abrading-disk for glass-grinding machines. No. 911,759; Feb. 9; Sp. p. 1451; Gaz. vol. 139; p. 271.
- Ramby, C. E. and W. H. Reichard, Dayton, Ohio. Swinging support for clothes-wringers. No. 927,279; July 6; Sp. p. 1183; Gaz. vol. 144; p. 194.
- Ramén, A., assignor to Helsingborgs Kopperverks Aktiebolag, Helsingborg, Sweden. Precipitating metals electrolytically. No. 913,430; Feb. 23; Sp. p. 4955; Gaz. vol. 139; p. 887.
- Ramey, H. B., Alexandria, Va. Method of and apparatus for revivifying dry-cell batteries. No. 913,563; Feb. 23; Sp. p. 5263; Gaz. vol. 139; p. 932.
- Ramey, M. L., Hot Springs, Ark. Combined screen and clothes-rack. No. 921,459; May 11; Sp. p. 2808; Gaz. vol. 142; p. 482.
- Ramloss, J. S., Newport, R. I. Rubber. No. 912,030; Feb. 9; Sp. p. 2061; Gaz. vol. 139; p. 359.
- Ramming, P., Plymouth, Wis. Curtain-fixture. No. 925,829; June 22; Sp. p. 5759; Gaz. vol. 143; p. 996.
- Rampp, J. (See Keeler and Rampp.)
- Ramsay, E., Birmingham, Ala. Apparatus for conveying coke from coke-ovens. No. 933,666; Sept. 7; Sp. p. 1430; Gaz. vol. 146; p. 215.
- Ramsay, J., Sydney, New South Wales, Australia. Internal cushion for boots and shoes. No. 914,674; Mar. 9; Sp. p. 2157; Gaz. vol. 140; p. 362.
- Ramsay, J. and H. H. Brown, Cleveland, Ohio. Perforating-machine. No. 917,146; Apr. 6; Sp. p. 387; Gaz. vol. 141; p. 67.
- Ramsdell, L. O., Salem, assignor to Peabody Leather Machinery Company, Peabody, Mass. Machine for measuring surface areas. No. 931,144; Aug. 17; Sp. p. 3212; Gaz. vol. 145; p. 560.
- Ramsdell, T. M. (See Birmingham, J. P., assignor.)
- Ramsdell, T. M., Richmond, Va. Uncoupling device for car-couplings. No. 919,949; Apr. 27; Sp. p. 6386; Gaz. vol. 141; p. 1092.
- Ramsden, R. W., Philadelphia, Pa. Attachment for vessels for facilitating the location and raising of vessels when sunk. No. 944,277; Dec. 28; Sp. p. 4812; Gaz. vol. 149; p. 849.
- Ramsey, E. C., Warrensburg, assignor of one-fourth to N. H. Robinson, Langdon, Mo. Stovepipe-coupling. No. 919,213; Apr. 20; Sp. p. 4637; Gaz. vol. 141; p. 809.
- Ramsey, E. C., Warrensburg, Mo., assignor of one-fourth to N. H. Robinson, Langdon, Minn. Stovepipe-coupling. No. 933,850; Sept. 14; Sp. p. 1817; Gaz. vol. 146; p. 300.
- Ramsey, G. V., Brooksville, Fla. Harness-buckle. No. 920,996; May 11; Sp. p. 1838; Gaz. vol. 142; p. 326.
- Ramsey, J. A., Beatrice, Nebr. Husker. No. 932,901; Aug. 31; Sp. p. 6903; Gaz. vol. 145; p. 1186.
- Ramsey, J. B., and J. West, Elkhart, Ind. Mail-catcher. No. 911,760; Feb. 9; Sp. p. 1453; Gaz. vol. 139; p. 271.
- Ramsey, J. D., Dorchester, Mass. Lathe-tool. No. 932,576; Aug. 31; Sp. p. 6232; Gaz. vol. 145; p. 1079.
- Ramsey, J. D., Dorchester, Mass. Lathe-tool holder. No. 935,547; Sept. 28; Sp. p. 5191; Gaz. vol. 146; p. 911.
- Ramsey, J. N., *et al.* (See Garrette, J. E., assignor.)
- Ramsey, P. N., New York, N. Y. Variable-speed mechanism. No. 912,487; Feb. 16; Sp. p. 3013; Gaz. vol. 139; p. 545.
- Ramsey, R., Portland, Mich. Adjustable chair. No. 940,824; Nov. 23; Sp. p. 5285; Gaz. vol. 148; p. 896.
- Ramsey, W. A., *et al.* (See Weiss, G. F., assignor.)
- Ramsey, W. W. (See Compton and Ramsey.)
- Ramshaw, O. J., Chicago, Ill. Window. No. 930,226; Aug. 3; Sp. p. 1236; Gaz. vol. 145; p. 204.
- Ramstad, J. N., Valdez, Alaska. Compound tool. No. 910,019; Jan. 19; Sp. p. 3199; Gaz. vol. 138; p. 591.
- Ramstead, C. J., and P. J. Johnson Ouray, Colo. Miner's candlestick. No. 922,950; May 25; Sp. p. 5896; Gaz. vol. 142; p. 1027.
- Ramthun, E., Kewaskum, and C. J. Gutekunst, Campbellsport, Wis. Washing-machine. No. 942,664; Dec. 7; Sp. p. 1314; Gaz. vol. 149; p. 216.
- Rancillaz, C. E., Colombes, France. Locking device for nuts and the like. No. 918,367; Apr. 13; Sp. p. 2846; Gaz. vol. 141; p. 504.



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- Rancourt, E. L., Waterville, Me. Circuit-breaking device. No. 925,838; June 22; Sp. p. 5775; Gaz. vol. 143; p. 999.
- Rand, C. A. A. Chicago, Ill. Tongue-truck. No. 921,161; May 11; Sp. p. 2167; Gaz. vol. 142; p. 381.
- Rand, C. A. A., Chicago, Ill., assignor to International Harvester Company. Stripper-harvester. No. 925,945; June 22; Sp. p. 5987; Gaz. vol. 143; p. 1034.
- Rand, E. M., New York, N. Y. Feeding device for horses. No. 913,305; Feb. 23; Sp. p. 4702; Gaz. vol. 139; p. 844.
- Rand, J. H., Wellesley Hills, Mass. Index-guide and similar device. No. 913,162; Feb. 23; Sp. p. 4404; Gaz. vol. 139; p. 796.
- Rand, J. H., Wellesley Hills, Mass. Type-writer attachment. No. 916,196; Mar. 23; Sp. p. 5166; Gaz. vol. 140; p. 915.
- Rand, O. R. (See Broadhurst and Rand.)
- Randall, B. M. and R. R., Bloomington, Ind. Square. No. 911,330; Feb. 2; Sp. p. 605; Gaz. vol. 139; p. 103.
- Randall, D. H., and C. C. Whitcomb, Coon Rapids, Iowa. Steering-gear for traction-engines. No. 918,368; Apr. 13; Sp. p. 2847; Gaz. vol. 141; p. 504.
- Randall, F. J., Los Angeles, Cal. Means for producing lubricating-bearings. No. 936,739; Oct. 12; Sp. p. 2391; Gaz. vol. 147; p. 398.
- Randall-Faichney Company. (See McElroy, P. J., assignor.)
- Randall, G. R., Earl, N. C. Railway-switch. No. 925,722; June 22; Sp. p. 5501; Gaz. vol. 143; p. 960.
- Randall, H. B., Union City, Pa. Woodworking-machine. No. 923,704; June 1; Sp. p. 1312; Gaz. vol. 143; p. 202.
- Randall, H. J. (See Dunn and Randall.)
- Randall, H. N., Minneapolis, Minn. Corn-planter. No. 913,234; Feb. 23; Sp. p. 4569; Gaz. vol. 139; p. 820.
- Randall, H. N., Minneapolis, Minn. Land-marker. No. 913,235; Feb. 23; Sp. p. 4573; Gaz. vol. 139; p. 820.
- Randall, H. W., St. Johnsbury, Vt. Removable box. No. 910,576; Jan. 26; Sp. p. 4400; Gaz. vol. 138; p. 806.
- Randall, J. P., Beatty, Nev. Pocket pen and pencil holder. No. 936,941; Oct. 12; Sp. p. 2776; Gaz. vol. 147; p. 464.
- Randall, K. C., Edgewood Park, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Transformer system. No. 917,794; Apr. 13; Sp. p. 1670; Gaz. vol. 141; p. 309.
- Randall, R. O., *et al.* (See Gill, C. H., assignor.)
- Randall, R. R. (See Randall, B. M. and R. R.)
- Randall, T. L., assignor of one-half to T. J. Dobin, Centerville, Mo. Horseshoe. No. 942,012; Nov. 30; Sp. p. 7803; Gaz. vol. 148; p. 1314.
- Randall, V. E., Battle Creek, Mich. Inhaler. No. 928,884; July 20; Sp. p. 4513; Gaz. vol. 144; p. 786.
- Randell, S., Finchley, London, England. Coin-delivery machine. No. 914,510; Mar. 9; Sp. p. 1794; Gaz. vol. 140; p. 308.
- Randolph, B. (See Cameron and Randolph.)
- Randolph, I. F. (See Franklin and Randolph.)
- Randolph, L. M., assignor to Essex Company, Newark, N. J. Third-rail insulator. No. 922,951; May 25; Sp. p. 5897; Gaz. vol. 142; p. 1027.
- Rangnow & Hall. (See Rangnow, R. C., assignor.)
- Rangnow, O., Philadelphia, Pa. Trunk-tray holder. No. 919,076; Apr. 20; Sp. p. 4382; Gaz. vol. 141; p. 765.
- Rangnow, O., Philadelphia, Pa. Detachable hat-form. No. 929,247; July 27; Sp. p. 5261; Gaz. vol. 144; p. 932.
- Rangnow, O., Philadelphia, Pa. Garment-carrier. No. 936,811; Oct. 12; Sp. p. 2525; Gaz. vol. 147; p. 421.
- Rangnow, O., Philadelphia, Pa. Wardrobe-trunk. No. 944,695; Dec. 28; Sp. p. 5742; Gaz. vol. 149; p. 994.
- Rangnow, R. C., assignor to Rangnow & Hall, Incorporated, Philadelphia, Pa. Trunk-fastener. No. 919,077; Apr. 20; Sp. p. 4383; Gaz. vol. 141; p. 766.
- Ranje, H. H., Indianapolis, Ind. Railway-tie. No. 942,745; Dec. 7; Sp. p. 1475; Gaz. vol. 149; p. 242.
- Rankin, A. M., Tyngsboro, Mass. Rotary safety-razor. No. 926,509; June 29; Sp. p. 7110; Gaz. vol. 143; p. 1255.
- Rankin, C. C., Louisville, Ky. Plow-stock. No. 919,296; Apr. 20; Sp. p. 5001; Gaz. vol. 141; p. 838.
- Rankin, F. L. (See Kelly and Rankin.)
- Rankin, G. W., assignor to Globe Fire Apparatus Company, Jersey City, N. J. Chemical fire-extinguisher. No. 923,076; May 25; Sp. p. 6149; Gaz. vol. 142; p. 1076.
- Rankin, I. C., Tulsa, Okla. Gate-bearing. No. 918,698; Apr. 20; Sp. p. 3623; Gaz. vol. 141; p. 642.
- Rankin, W. A., and W. M. Harwood, assignors to Harwood Electric Heating Co., Hutchinson, Kans. Electric heater. No. 935,816; Oct. 5; Sp. p. 466; Gaz. vol. 147; p. 66.
- Rankin, W. H., and C. P. Dederick, Elizabeth, N. J., assignors to said W. H. Rankin. Beater-roll for paper-making machines. No. 942,746; Dec. 7; Sp. p. 1477; Gaz. vol. 149; p. 242.
- Rankin, W. K., assignor to J. E. Reyburn, Philadelphia, Pa. Electric and pneumatic governor. No. 915,112; Mar. 16; Sp. p. 3017; Gaz. vol. 140; p. 532.
- Rankin, W. K., assignor to J. E. Reyburn, Philadelphia, Pa. Engineer's valve for train-brakes. No. 942,280; Dec. 7; Sp. p. 546; Gaz. vol. 149; p. 85.
- Rankin, W. M., Carbondale, Colo. Fence construction. No. 931,486; Aug. 17; Sp. p. 3929; Gaz. vol. 145; p. 678.
- Ranko, J., New York, N. Y. Folding bed. No. 926,438; June 29; Sp. p. 6999; Gaz. vol. 143; p. 1232.
- Ranney, C. A., Winn, Me. Screen. No. 934,570; Sept. 21; Sp. p. 3210; Gaz. vol. 146; p. 560.
- Ranney, J. L., Macedonia, Ohio. Machine for washing cans and the like. No. 940,060; Nov. 16; Sp. p. 3573; Gaz. vol. 148; p. 611.
- Ransom, A. T., New York, N. Y. Wave and gravity motor. No. 929,982; Aug. 3; Sp. p. 763; Gaz. vol. 145; p. 122.
- Ransom & Randolph Company. (See Reynolds, W. H., assignor.)
- Ransom, W. E., North Yakima, Wash. Rail-joint. No. 942,411; Dec. 7; Sp. p. 791; Gaz. vol. 149; p. 128.
- Ransom, W. G., Davenport, Iowa. Brake-equalizer. No. 935,926; Oct. 5; Sp. p. 698; Gaz. vol. 147; p. 102.
- Ransome, E. L., New York, N. Y. Method and apparatus for molding concrete pipes. No. 910,577; Jan. 26; Sp. p. 4401; Gaz. vol. 138; p. 806.
- Ransome, E. L., New York, N. Y. Apparatus for laying concrete pipes. No. 910,578; Jan. 26; Sp. p. 4404; Gaz. vol. 138; p. 807.
- Ransome, E. L., New York, N. Y. Concrete building construction. No. 918,699; Apr. 20; Sp. p. 3624; Gaz. vol. 141; p. 642.
- Ransome, E. L., assignor to Ransome-International Conduit Co., New York, N. Y. Apparatus for laying concrete sidewalks, curbs, &c. No. 940,061; Nov. 16; Sp. p. 3577; Gaz. vol. 148; p. 612.
- Ransome-International Conduit Co. (See Ransome, E. L., assignor.)
- Ranson, J. W., Batavia, Ohio. Insulator. No. 929,878; Aug. 3; Sp. p. 541; Gaz. vol. 145; p. 87.
- Rantasa, J., Vienna, Austria-Hungary. Sleigh and sled. No. 922,332; May 18; Sp. p. 4584; Gaz. vol. 142; p. 796.
- Rantsch, A. C. (See Lunan and Rantsch.)
- Ranum, N. L., Devils Lake, N. D. Bag-fastener. No. 939,316; Nov. 9; Sp. p. 1918; Gaz. vol. 148; p. 327.
- Ranz, J., assignor of one-half to J. F. Lang, St. Louis, Mo. Machine for mounting photoprints and similar articles. No. 911,070; Feb. 2; Sp. p. 91; Gaz. vol. 139; p. 17.
- Rape, W. E., Catawissa, Pa. Gravitating hinge. No. 937,548; Oct. 19; Sp. p. 4090; Gaz. vol. 147; p. 695.
- Rapid Account File Company. (See Braun, F. A., assignor.)
- Rapid Cyanide Extraction Company. (See Paterson, W. C., assignor.)
- Rapp, A., assignor to Deutsche Waffen-und Munitionsfabriken, Karlsruhe, Germany. Device for testing the weight of projectiles and like bodies. No. 919,766; Apr. 27; Sp. p. 5997; Gaz. vol. 141; p. 1031.
- Rapp, J. W. (See Nellis, C. E., assignor.)
- Rapp, S. W., Detroit, Mich. Carburetor. No. 938,894; Nov. 2; Sp. p. 965; Gaz. vol. 148; p. 153.
- Rapp, W. M., Philadelphia, Pa. Linotype-machine. No. 932,577; Aug. 31; Sp. p. 6235; Gaz. vol. 145; p. 1080.
- Rappaport, E., assignor of one-half to C. Epcar, Minneapolis, Minn. Illuminated rotary sign. No. 919,380; Apr. 27; Sp. p. 5194; Gaz. vol. 141; p. 901.
- Rappelee, F. D., Green Bay, Wis. Street-sweeper. No. 929,109; July 27; Sp. p. 4981; Gaz. vol. 144; p. 887.
- Rappold, C., *et al.* (See McLaughlin, J. F., assignor.)
- Rapson, J. S., Jenkintown, Pa. Erasive tablet. No. 923,576; June 1; Sp. p. 1028; Gaz. vol. 143; p. 158.
- Rareshide, C. W. G. (See Lanaux, A. A., assignor.)
- Räsänen, A. J., New Haven, Conn. Pencil-sharpener. No. 937,175; Oct. 19; Sp. p. 3280; Gaz. vol. 147; p. 571.
- Raschick, C. T., St. Paul, Minn., assignor to National Checking Company. Folder for coupon-books. No. 934,755; Sept. 21; Sp. p. 3574; Gaz. vol. 146; p. 623.
- Raschick, C. T., St. Paul, Minn., assignor to National Checking Company. Holder for sales-checks. No. 943,785; Dec. 21; Sp. p. 3774; Gaz. vol. 149; p. 657.
- Raschig, F., Ludwigshafen-on-the-Rhine, Germany. Production of hydrazin. No. 910,858; Jan. 26; Sp. p. 4955; Gaz. vol. 138; p. 895.
- Rash, J. R., Henderson, Ky. Hat. No. 940,062; Nov. 16; Sp. p. 3584; Gaz. vol. 148; p. 612.
- Raskin, I., and J. Deretchin, New York, N. Y. Window-guard. No. 917,358; Apr. 6; Sp. p. 815; Gaz. vol. 141; p. 140.
- Rasmussen, A., Racine, assignor to Racine Gas Engine Company, Racine Junction, Wis. Cutter-guard. No. 909,116; Jan. 5; Sp. p. 1413; Gaz. vol. 138; p. 225.
- Rasmussen, C., Racine Junction, Wis. Power hacksaw-machine. No. 927,751; July 13; Sp. p. 2177; Gaz. vol. 144; p. 377.
- Rasmussen, J. (See Carpenter, Rasmussen, and McCrosky.)
- Rasmussen, L. T., assignor to Walker Manufacturing Company, Council Bluffs, Iowa. Furrow-opener. No. 942,281; Dec. 7; Sp. p. 548; Gaz. vol. 149; p. 85.

*Alphabetical list of patentees—Continued.*

- Rasmussen, L. T., assignor to Walker Manufacturing Company, Council Bluffs, Iowa. Furrow-opener. No. 942,282; Dec. 7; Sp. p. 549; Gaz. vol. 149; p. 86.
- Rasmussen, L. T., assignor to Walker Manufacturing Company, Council Bluffs, Iowa. Furrow-opener. No. 942,283; Dec. 7; Sp. p. 551; Gaz. vol. 149; p. 86.
- Rasmussen, S., Sheffield, Ill. Dough-raiser. No. 929,983; Aug. 3; Sp. p. 764; Gaz. vol. 145; p. 122.
- Raster, W., Chicago, Ill. Reinforced concrete construction. No. 921,626; May 11; Sp. p. 3152; Gaz. vol. 142; p. 539.
- Ratcliffe, E. S., Twickenham, England. Boiler-flue cleaner. No. 929,489; July 27; Sp. p. 5762; Gaz. vol. 144; p. 1011.
- Rath, J. (See Lebold and Rath.)
- Ráth, K., Szabadka, Austria-Hungary. Safety hose-coupling for railway air-brakes. No. 910,579; Jan. 26; Sp. p. 4410; Gaz. vol. 138; p. 807.
- Rathbone, F. D., assignor of one-half to A. L. Ober, Chatfield, Minn. Railway-tie. No. 921,735; May 18; Sp. p. 3379; Gaz. vol. 142; p. 601.
- Rathbun Knitting Company. (See Metcalf, G. A., assignor.)
- Rathbun, L. V., Rochester, N. Y. Flexible feed-spout. No. 943,891; Dec. 21; Sp. p. 3994; Gaz. vol. 149; p. 693.
- Ratignier, M., and H. Pervilhac, Lyon, France. Producing artificial lace fabric and the like. No. 934,214; Sept. 14; Sp. p. 2532; Gaz. vol. 146; p. 418.
- Ratlift, E. D., Birmingham, Ala. Apparatus for drawing coke. No. 934,215; Sept. 14; Sp. p. 2533; Gaz. vol. 146; p. 418.
- Ratner, A., New York, N. Y. Cloth-piler. No. 923,577; June 1; Sp. p. 1029; Gaz. vol. 143; p. 159.
- Ratner, A., New York, N. Y. Cloth-piler. No. 923,578; June 1; Sp. p. 1037; Gaz. vol. 143; p. 159.
- Ratner, H. W., Chicago, Ill. Tailor's square. No. 909,023; Jan. 5; Sp. p. 1210; Gaz. vol. 138; p. 194.
- Rau, A. (See Whyte and Rau.)
- Rau, M. J., Garden Plain, Kans. Winker for harness. No. 911,443; Feb. 2; Sp. p. 802; Gaz. vol. 139; p. 140.
- Rauch, E. J., Taunton, Mass. Car-heater. No. 914,305; Mar. 2; Sp. p. 1383; Gaz. vol. 140; p. 215.
- Rauch, G. F., Medford, Wis. Trench or sewer digger. No. 913,849; Mar. 2; Sp. p. 359; Gaz. vol. 140; p. 61.
- Rauch, H., Mount Vernon, N. Y. Cask-pitching machine. No. 933,202; Sept. 7; Sp. p. 380; Gaz. vol. 146; p. 59.
- Rauch, H. and H. E., Mount Vernon, N. Y. Cask-pitching machine. No. 933,203; Sept. 7; Sp. p. 383; Gaz. vol. 146; p. 60.
- Rauch, H. E. (See Rauch, H. and H. E.)
- Rauch and Lang Carriage Company. (See Cookingham, D. C., assignor.)
- Rauh, J. J., New York, N. Y. Self-cleaning comb. No. 926,766; July 6; Sp. p. 122; Gaz. vol. 144; p. 20.
- Rauhauser, L., Brooklyn, N. Y. Hoisting and dredging bucket. No. 926,132; June 29; Sp. p. 6370; Gaz. vol. 143; p. 1131.
- Rausch, J., Huntington, Ind. Lamp-bracket. No. 915,216; Mar. 16; Sp. p. 3244; Gaz. vol. 140; p. 567.
- Rause, E. E. (See Andrus and Rause.)
- Rausenberger, F., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germanv. Impact-fuse. No. 932,173; Aug. 24; Sp. p. 5411; Gaz. vol. 145; p. 923.
- Ravenshaw, H. W., Hanwell, England. Magnetic clutch. No. 942,186; Dec. 7; Sp. p. 340; Gaz. vol. 149; p. 52.
- Ravenshaw, H. W., Hanwell, England. Magnetic clutch. No. 942,187; Dec. 7; Sp. p. 342; Gaz. vol. 149; p. 52.
- Ravenshaw, H. W., Hanwell, England. Magnetic clutch or brake. No. 942,188; Dec. 7; Sp. p. 343; Gaz. vol. 149; p. 52.
- Ravenshaw, H. W., Hanwell, England. Magnetic clutch. No. 942,867; Dec. 7; Sp. p. 1741; Gaz. vol. 149; p. 282.
- Ravilly, A. M., Asnières, France. Nut-lock. No. 915,217; Mar. 16; Sp. p. 3245; Gaz. vol. 140; p. 567.
- Raw, L. H., East Moseley, and R. Sumner, Farncombe, assignors to R. G. Orr, London, England. Treatment of ramie and other similar substances. No. 915,218; Mar. 16; Sp. p. 3246; Gaz. vol. 140; p. 567.
- Rawalt, W., Blandinsville, Ill. Farrier's implement. No. 940,478; Nov. 16; Sp. p. 4517; Gaz. vol. 148; p. 756.
- Rawdon, G. L., Cleveland, Ohio. Telegraph-repeater. No. 914,877; Mar. 9; Sp. p. 2571; Gaz. vol. 140; p. 429.
- Rawitch, O. H., Philadelphia, Pa. Puzzle. No. 928,540; July 20; Sp. p. 3823; Gaz. vol. 144; p. 670.
- Rawitsch, M., Chicago, Ill. Hat-mirror. No. 910,723; Jan. 26; Sp. p. 4685; Gaz. vol. 138; p. 852.
- Rawson, B. B., Jamaica, Vt. Stone-boat. No. 916,594; Mar. 30; Sp. p. 5980; Gaz. vol. 140; p. 1073.
- Rawson, D. B., Los Angeles, Cal. Electrical water-heater. No. 922,333; May 18; Sp. p. 4586; Gaz. vol. 142; p. 796.
- Rawsthorne, J. T., and J. Pryke, Dinting, England. Pantograph engraving-machine. No. 921,736; May 18; Sp. p. 3381; Gaz. vol. 142; p. 602.
- Rawsthorne, J. T., and J. Pryke, Dinting, England. Pantograph engraving-machine. No. 921,737; May 18; Sp. p. 3382; Gaz. vol. 142; p. 602.
- Rawsthorne, J. T., and J. Pryke, Dinting, England. Pantograph engraving-machine. No. 921,738; May 18; Sp. p. 3383; Gaz. vol. 142; p. 603.
- Rawsthorne, J. T., and J. Pryke, Dinting, England. Pantograph engraving-machine. (Reissue.) No. 12,989; July 13; Sp. p. 3176; Gaz. vol. 144; p. 542.
- Rawsthorne, J. T., and J. Pryke, Dinting, England. Pantograph engraving-machine. (Reissue.) No. 12,990; July 13; Sp. p. 3178; Gaz. vol. 144; p. 542.
- Ray, A. (See Connor, Carter, and Ray.)
- Ray, A. D., Cleveland, Ohio. Razor-honing device. No. 918,909; Apr. 20; Sp. p. 4066; Gaz. vol. 141; p. 713.
- Ray, A. D., Cleveland, Ohio, assignor of one-half to C. J. Callahan and one-half to T. Chester, Sunbury, Pa. Apparatus for filling rubber tires with viscous liquids. No. 944,278; Dec. 28; Sp. p. 4813; Gaz. vol. 149; p. 849.
- Ray, F. A., assignor to Standard Light Company, Boston, Mass. Apparatus for increasing gas-pressure. No. 937,464; Oct. 19; Sp. p. 3916; Gaz. vol. 147; p. 665.
- Ray, F. E., *et al.* (See Fanning, F., assignor.)
- Ray, G. H., Belvidere, Ill. Portable press for assembling radiators. No. 909,934; Jan. 19; Sp. p. 3037; Gaz. vol. 138; p. 562.
- Ray, G. R., Manistee, Mich. Vacuum-pan for evaporating apparatus. No. 920,997; May 11; Sp. p. 1839; Gaz. vol. 142; p. 326.
- Ray, H. C., Sheridan, Ind. Pipe-wrench. No. 928,216; July 13; Sp. p. 3128; Gaz. vol. 144; p. 533.
- Ray, J. A., Wichita, Kans. Steam-boiler appliance. No. 919,462; Apr. 27; Sp. p. 5379; Gaz. vol. 141; p. 928.
- Ray, J. I., Bluffton, Ga. Fifth-wheel. No. 915,478; Mar. 16; Sp. p. 3747; Gaz. vol. 140; p. 652.
- Ray, L., Hamlet, Ind. Door-fastener. No. 937,465; Oct. 19; Sp. p. 3918; Gaz. vol. 147; p. 666.
- Ray, M., *et al.* (See Frederick, L., assignor.)
- Ray Piano Company. (See Betz, W. G., assignor.)
- Ray Piano Company. (See Nordeen, A., assignor.)
- Ray, S. E., McConnellsburg, Pa. Mixing mechanism. No. 935,688; Oct. 5; Sp. p. 138; Gaz. vol. 147; p. 23.
- Ray, S. S., Maysville, Ga. Tamping device for cotton-presses. No. 912,889; Feb. 16; Sp. p. 3857; Gaz. vol. 139; p. 680.
- Ray, T. F., Jr., Laurens, S. C., assignor of one-half to B. L. Umberger, Concord, N. C. Lard gage-extractor. No. 935,404; Sept. 28; Sp. p. 4881; Gaz. vol. 146; p. 863.
- Ray, T. H., Somerville, assignor to Hill-Ray Engineering Company, Boston, Mass. Ice-making machine. No. 923,298; June 1; Sp. p. 441; Gaz. vol. 143; p. 62.
- Rayburn, W. J., Chicago, Ill. Feed-bag. No. 927,073; July 6; Sp. p. 789; Gaz. vol. 144; p. 126.
- Raydure, C. F. (See McCoubrie and Raydure.)
- Rayfield, C. L., South Bend, Ind. Gear-shifter. No. 929,012; July 27; Sp. p. 4781; Gaz. vol. 144; p. 855.
- Raymer, R. L., Fortuna, Cal. Yielding gear. No. 919,767; Apr. 27; Sp. p. 5999; Gaz. vol. 141; p. 1031.
- Raymond Concrete Pile Company. (See Upson, M. M., assignor.)
- Raymond, E. B., assignor to Hen Feather Incubator Company, Blackwell, Okla. Heater. No. 913,672; Feb. 23; Sp. p. 5492; Gaz. vol. 139; p. 967.
- Raymond, F., Syracuse, N. Y. Power-hammer. No. 934,355; Sept. 14; Sp. p. 2791; Gaz. vol. 146; p. 465.
- Raymond, F., assignor to C. C. Bradley, Sr., Syracuse, N. Y. Machine for grooving journal-bearings. No. 930,968; Aug. 10; Sp. p. 2834; Gaz. vol. 145; p. 479.
- Raymond, F. M. (See Craw, F. C., assignor.)
- Raymond, H. K., assignor to B. F. Goodrich Company, Akron, Ohio. Inner tube of pneumatic tires. No. 931,648; Aug. 17; Sp. p. 4247; Gaz. vol. 145; p. 726.
- Raymond, J. C., Brooklyn, N. Y. Cigar-lighter. No. 910,313; Jan. 19; Sp. p. 3843; Gaz. vol. 138; p. 692.
- Raymond, J. C., New York, N. Y. Tire. No. 926,439; June 29; Sp. p. 7002; Gaz. vol. 143; p. 1233.
- Raymond, M., Philadelphia, Pa. Non-refillable bottle. No. 938,703; Nov. 2; Sp. p. 558; Gaz. vol. 148; p. 87.
- Raymond, M., Waverly, N. Y. Rail-joint. No. 944,908; Dec. 28; Sp. p. 6201; Gaz. vol. 149; p. 1066.
- Rayner, R. B. (See Rheubottom and Rayner.)
- Rayner, W. H., Springfield, assignor, by mesne assignments, to F. E. Myers & Bro., Ashland, Ohio. Power-pump. No. 936,359; Oct. 12; Sp. p. 1570; Gaz. vol. 147; p. 269.
- Raynesford, M. R., Ellis, Kans. Bench-stop. No. 939,088; Nov. 2; Sp. p. 1356; Gaz. vol. 148; p. 221.
- Raynor, J., South West City, Mo., and C. Foster, Gravette, Ark., assignors of one-third to G. D. Cates, South West City, Mo. Check-row planter and marker. No. 937,176; Oct. 19; Sp. p. 3281; Gaz. vol. 147; p. 572.
- Rea, A. A., *et al.* (See Wilkison, J. D., assignor.)
- Rea, E. C. and G. W., Baker City, Oreg. Wrench. No. 939,317; Nov. 9; Sp. p. 1919; Gaz. vol. 148; p. 327.



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- Rea, G. H., *et al.* (See Wilkinson, J. D., assignor.)  
 Rea, G. W. (See Rea, E. C. and G. W.)  
 Rea, J. H. B., La Fayette, Ga. Protected insulator. No. 909,935; Jan. 19; Sp. p. 3038; Gaz. vol. 138; p. 563.  
 Reach, G. A. (See Gamble, J., assignor.)  
 Reach, G. A., Philadelphia, Pa. Base-ball. No. 917,658; Apr. 6; Sp. p. 1353; Gaz. vol. 141; p. 238.  
 Reach, M. B., Springfield, Mass. Gymnasium-ladder. No. 932,902; Aug. 31; Sp. p. 6904; Gaz. vol. 145; p. 1186.  
 Reach, M. B., Springfield, assignor to A. G. Spalding & Bros. Manufacturing Co., Chicopee, Mass. Exercising-ladder and like apparatus. No. 909,024; Jan. 5; Sp. p. 1212; Gaz. vol. 138; p. 194.  
 Reach, M. B., assignor to A. G. Spalding & Bros. Manufacturing Co., Springfield, Mass. Gymnasium apparatus. No. 932,413; Aug. 24; Sp. p. 5866; Gaz. vol. 145; p. 1001.  
 Reach, M. B., Springfield, assignor to A. G. Spalding Bros., Inc., Chicopee, Mass. Basket-ball goal. No. 922,630; May 25; Sp. p. 5220; Gaz. vol. 142; p. 923.  
 Reach, M. B., Springfield, Mass., assignor to R. P. K. Specialty Company. Shoe-form. No. 927,280; July 6; Sp. p. 1184; Gaz. vol. 144; p. 195.  
 Reach, M. B., Springfield, Mass., assignor to R. P. K. Specialty Co. Shoe-form. No. 927,281; July 6; Sp. p. 1186; Gaz. vol. 144; p. 195.  
 Reach, R., Philadelphia, Pa. Ball for use in athletics. No. 929,013; July 27; Sp. p. 4785; Gaz. vol. 144; p. 855.  
 Reach, R., Philadelphia, Pa. Exercising or massage apparatus. No. 942,976; Dec. 14; Sp. p. 2027; Gaz. vol. 149; p. 351.  
 Read, E. C., Franklin, Pa. Suspension device for telephone and telegraph cables and other electrical conductors. No. 940,555; Nov. 16; Sp. p. 4693; Gaz. vol. 148; p. 781.  
 Read, G. C., Davenport Station, Toronto, Ontario, Canada. Machine-telegraph. No. 929,984; Aug. 3; Sp. p. 766; Gaz. vol. 145; p. 123.  
 Read, H. (See Hoffman, C. W., assignor.)  
 Read, H. V. R., London, and R. H. Campbell, Edmonton, England. Capsule for holding compressed or liquefied gas. No. 926,075; June 22; Sp. p. 6253; Gaz. vol. 143; p. 1077.  
 Read, H. V. R., London, and R. H. Campbell, Edmonton, England, assignors to Aerators Limited, London, England. Fire-extinguishing apparatus. No. 937,549; Oct. 19; Sp. p. 4091; Gaz. vol. 147; p. 695.  
 Read, H. V. R., London, and R. H. Campbell, Edmonton, England. Fire-extinguisher apparatus. No. 940,614; Nov. 16; Sp. p. 4801; Gaz. vol. 148; p. 800.  
 Read, O. B., Troy, N. Y. Check-hook and loop. No. 929,014; July 27; Sp. p. 4786; Gaz. vol. 144; p. 855.  
 Read, R. H., Schenectady, N. Y., assignor to General Electric Company. Arc-lamp. No. 917,147; Apr. 6; Sp. p. 388; Gaz. vol. 141; p. 67.  
 Read, S. G., Springfield, Mass. Electric switch. No. 914,878; Mar. 9; Sp. p. 2574; Gaz. vol. 140; p. 430.  
 Read, W. A., and H. J. Miles, London, England. Key for removing lids from sardine-tins and the like. No. 943,459; Dec. 14; Sp. p. 3064; Gaz. vol. 149; p. 515.  
 Read, W. W., assignor of one-third to W. C. Maloz and one-third to D. H. Maloz, Patterson, La. Machine for delivering measured quantities of commodities. No. 917,359; Apr. 6; Sp. p. 817; Gaz. vol. 141; p. 140.  
 Reading Hardware Company. (See Schoenman, A., assignor.)  
 Reading Standard Company. (See Fosnot, L. P., assignor.)  
 Ready Tool Company. (See Barnes, G. A., assignor.)  
 Reagan, H. E. (See Yale and Reagan.)  
 Reagan, J. and W., Philadelphia, Pa.; said W. Reagan assignor to said J. Reagan. Mechanical stoker. No. 925,723; June 22; Sp. p. 5503; Gaz. vol. 143; p. 960.  
 Reagan, J. and W., Philadelphia, Pa.; said W. Reagan assignor to said J. Reagan. Grate. No. 925,787; June 22; Sp. p. 5661; Gaz. vol. 143; p. 982.  
 Reagan, J. and W., Philadelphia, Pa.; said W. Reagan assignor to said J. Reagan. Shaking-grate. No. 926,076; June 22; Sp. p. 6254; Gaz. vol. 143; p. 1078.  
 Reagan, W. (See Reagan, J. and W.)  
 Ream, H. S., *et al.* (See Detwiler, C. A., assignor.)  
 Reams, J. W., assignor to Richmond Cedar Works, Richmond, Va. Gearing. No. 930,562; Aug. 10; Sp. p. 1930; Gaz. vol. 145; p. 341.  
 Reaney, J., Jr., Sherwood, and J. A. McNulty, Baltimore, Md. Bag. No. 931,886; Aug. 24; Sp. p. 4780; Gaz. vol. 145; p. 826.  
 Reaney, J., Jr., Sherwood, and J. A. McNulty, Baltimore, Md. Bag. No. 931,887; Aug. 24; Sp. p. 4783; Gaz. vol. 145; p. 826.  
 Reaney, J., Jr., Sherwood, and J. A. McNulty, Baltimore, Md. Valved bag. No. 931,888; Aug. 24; Sp. p. 4786; Gaz. vol. 145; p. 827.  
 Reaveley, R. R., Fort Williams, Ontario, Canada. Car-door for grain, coal, &c. No. 938,789; Nov. 2; Sp. p. 726; Gaz. vol. 148; p. 117.  
 Reeves, S., Jackson, Mich. Dressing-stand. No. 918,471; Apr. 13; Sp. p. 3058; Gaz. vol. 141; p. 537.  
 Reber, J. G., Chicago, Ill., assignor to J. W. Sefton Manufacturing Company, Anderson, Ind. Shipping-package. No. 919,768; Apr. 27; Sp. p. 6000; Gaz. vol. 141; p. 1031.  
 Rebholz, R. C. (See Petrie and Rebholz.)  
 Rebischung, E., New York, N. Y. Collection-box. No. 915,308; Mar. 16; Sp. p. 3411; Gaz. vol. 140; p. 595.  
 Rebmam, C. M. (See Sanders and Rebmam.)  
 Rebmam, J., Dallas, Tex. Magazine-firearm. No. 940,191; Nov. 16; Sp. p. 3868; Gaz. vol. 148; p. 657.  
 Reconi, F., assignor of one-third to G. J. Giannini and one-third to L. Abrate, San Francisco, Cal. Buffer for railway-cars. No. 933,204; Sept. 7; Sp. p. 385; Gaz. vol. 146; p. 60.  
 Recht, F., New York, N. Y. Machine for applying caps to bottles. No. 929,248; July 27; Sp. p. 5262; Gaz. vol. 144; p. 932.  
 Rechtenbach, G. H., Bridgewater, Iowa. Thresher-tooth. No. 911,157; Feb. 2; Sp. p. 267; Gaz. vol. 139; p. 47.  
 Reckards, E. M., Oswake, Kans. Automatic stock-dipping tank. No. 934,571; Sept. 21; Sp. p. 3211; Gaz. vol. 146; p. 560.  
 Recklinghausen, M. von, assignor to Cooper Hewitt Electric Company. Mechanical mercury-sealed vacuum-pump. No. 911,610; Feb. 9; Sp. p. 1144; Gaz. vol. 139; p. 221.  
 Reclam, W. (See Bastian, P., assignor.)  
 Recometre Company of America. (See Lee, G. A., assignor.)  
 Recording and Computing Machines Company. (See Ohmer, W. I., assignor.)  
 Recording Register & Fare Box Company. (See Littlejohn, C. F., assignor.)  
 Rector, A., assignor to Rector Help-A-Phone Company, New York, N. Y. Telephone-receiver. No. 915,625; Mar. 16; Sp. p. 4062; Gaz. vol. 140; p. 701.  
 Rector, A., assignor, by mesne assignments, to Rector Gas Lamp Company, New York, N. Y. Mantle-support. No. 917,659; Apr. 6; Sp. p. 1359; Gaz. vol. 141; p. 238.  
 Rector, A., assignor to W. B. Hutchinson, trustee, New York, N. Y. Alcohol-lamp. No. 934,014; Sept. 14; Sp. p. 2128; Gaz. vol. 146; p. 351.  
 Rector, A., assignor to Rector Gas Lamp Company, New York, N. Y. Incandescent gas-lamp. No. 936,476; Oct. 12; Sp. p. 1855; Gaz. vol. 147; p. 308.  
 Rector Gas Lamp Company. (See Rector, A., assignor.)  
 Rector Help-A-Phone Company. (See Rector, A., assignor.)  
 Red Wing Advertising Company. (See Sultz, C. S., assignor.)  
 Reddaway, F., Pendleton, Manchester, England. Pneumatic tire. No. 922,631; May 25; Sp. p. 5221; Gaz. vol. 142; p. 924.  
 Redemann, F. J., Worcester, Mass. Tack-separating device. No. 919,636; Apr. 27; Sp. p. 5745; Gaz. vol. 141; p. 988.  
 Redford, F. O. (See Greenan and Redford.)  
 Redick, T. A., Chase City, Va. Shipping-crate. No. 925,507; June 22; Sp. p. 5054; Gaz. vol. 143; p. 890.  
 Redifer, R. P., Riddles, Oreg. Saw-set. No. 930,616; Aug. 10; Sp. p. 2046; Gaz. vol. 145; p. 358.  
 Redin, A. W., assignor to Winlund Knitting Company, Rockford, Ill. Mechanical movement. No. 910,580; Jan. 26; Sp. p. 4411; Gaz. vol. 138; p. 807.  
 Redin, A. W., assignor to Winlund Knitting Company, Rockford, Ill. Knitting-machine. No. 932,578; Aug. 31; Sp. p. 6238; Gaz. vol. 145; p. 1080.  
 Redington, T. G., New York, N. Y. Shoe-tree. No. 941,947; Nov. 30; Sp. p. 7679; Gaz. vol. 148; p. 1293.  
 Redington, T. G., New York, N. Y., assignor of one-half to G. H. Grimm, Rutland, Vt. Machine for filling and capping bottles. No. 931,649; Aug. 17; Sp. p. 4249; Gaz. vol. 145; p. 726.  
 Rediske, H. F. (See Wilckering and Rediske.)  
 Redlich, A., and J. Wladika, Vienna, Austria-Hungary. Treatment of quebracho extract. No. 939,742; Nov. 9; Sp. p. 3859; Gaz. vol. 148; p. 471.  
 Redman, C. F. (See Bayless and Redman.)  
 Redman, C. F., Youngstown, Ohio. Portable suspending device. No. 939,318; Nov. 9; Sp. p. 1919; Gaz. vol. 148; p. 327.  
 Redman, J. J., Witt, Ill. Valve-gear. No. 937,330; Oct. 19; Sp. p. 3595; Gaz. vol. 147; p. 621.  
 Redmond, W., assignor to Superior Manufacturing Company, Muskegon, Mich. School furniture. No. 912,413; Feb. 16; Sp. p. 2870; Gaz. vol. 139; p. 521.  
 Reeb, G., Pittsburg, Pa. Pipe-reamer attachment for threaders. No. 944,909; Dec. 28; Sp. p. 6202; Gaz. vol. 149; p. 1067.  
 Reece Buttonhole Machine Company. (See Dahl, C. A., assignor.)  
 Reece Buttonhole Machine Company. (See Perley, J., assignor.)

*Alphabetical list of patentees—Continued.*

- Reece Button Hole Machine Company. (See Maitland, J., assignor.)  
 Reece Button Hole Machine Company. (See Leveque, B. T., assignor.)  
 Reece Folding Machine Company. (See Dixon, W. L., assignor.)  
 Reece Folding Machine Company. (See Dixon, W. W. and W. L., assignors.)  
 Reece, J. H., assignor to Humphrey & Sons, Joliet, Ill. Guard for wire-blocks. No. 909,117; Jan. 5; Sp. p. 1414; Gaz. vol. 138; p. 226.  
 Reece, J. H., assignor to Humphrey & Sons, Joliet, Ill. Gripper for wire. No. 922,814; May 25; Sp. p. 5598; Gaz. vol. 142; p. 982.  
 Reece, J. H., assignor to Humphrey & Sons, Joliet, Ill. Wire-die safety appliance. No. 929,985; Aug. 3; Sp. p. 774; Gaz. vol. 145; p. 123.  
 Reece, J. H., assignor to Humphrey & Sons, Joliet, Ill. Mechanism for operating wire-blocks. No. 944,345; Dec. 28; Sp. p. 4948; Gaz. vol. 149; p. 872.  
 Reece, J. H., assignor to Humphrey & Sons, Joliet, Ill. Clutch for wire-blocks. No. 944,346; Dec. 28; Sp. p. 4952; Gaz. vol. 149; p. 873.  
 Reece, L. D., Des Moines, Iowa. Saw-hanger. No. 940,728; Nov. 23; Sp. p. 5068; Gaz. vol. 148; p. 865.  
 Reece, P. E., assignor of one-third to C. T. Lenox, Lochiel, Ind. Work-holder for drill-presses. No. 920,493; May 4; Sp. p. 802; Gaz. vol. 142; p. 130.  
 Reece, W. H., assignor of one-half to J. B. Legg, St. Louis, Mo. Rotary engine. No. 914,074; Mar. 2; Sp. p. 897; Gaz. vol. 140; p. 141.  
 Reed, A. L. (See Wright, C. M., assignor.)  
 Reed, B. (See Fothergill, T. W., assignor.)  
 Reed, B. E., Goldsboro, Md. Corn-harvester. No. 938,335; Oct. 26; Sp. p. 5733; Gaz. vol. 147; p. 976.  
 Reed & Barton Corporation. (See Glover, D. H., assignor.)  
 Reed, C. A., St. Paul, Minn. Railway-tie. No. 943,268; Dec. 14; Sp. p. 2657; Gaz. vol. 149; p. 450.  
 Reed, C. J., and C. B. Spooner, Lake Charles, La. Step-ladder. No. 909,669; Jan. 12; Sp. p. 2490; Gaz. vol. 138; p. 442.  
 Reed, C. M., Freeport, Ill. Fence-post. No. 936,562; Oct. 12; Sp. p. 2035; Gaz. vol. 147; p. 335.  
 Reed, C. S. (See Lewis, Tenhagen, and Reed.)  
 Reed, C. S., assignor to American Thermos Bottle Company, New York, N. Y. Double-walled vessel. No. 909,221; Jan. 12; Sp. p. 1624; Gaz. vol. 138; p. 292.  
 Reed, D., et al. (See Rogers, W. A., assignor.)  
 Reed, D. L. (See Davis and Reed.)  
 Reed, E., assignor to S. R. Reed, Cookeville, Tenn. Automatic air-pump. No. 940,892; Nov. 23; Sp. p. 5422; Gaz. vol. 148; p. 918.  
 Reed, E. A., Oliver Springs, Tenn. Sifting apparatus. No. 929,490; July 27; Sp. p. 5765; Gaz. vol. 144; p. 1012.  
 Reed, E. W. (See Hollenbeck and Reed.)  
 Reed, F. L., Guthrie Center, Iowa. Wire-stretcher. No. 919,214; Apr. 20; Sp. p. 4638; Gaz. vol. 141; p. 810.  
 Reed, F. M., Indianapolis, Ind., assignor to Sectional Grain Door Company. Sectional grain-door. No. 910,020; Jan. 19; Sp. p. 3200; Gaz. vol. 138; p. 591.  
 Reed, F. W. and G. L., Boston, Mass. Cleansing-machine. No. 927,165; July 6; Sp. p. 963; Gaz. vol. 144; p. 157.  
 Reed, G. B., assignor of one-half to A. T. Kirkland, Buffalo, N. Y. Box. No. 939,166; Nov. 2; Sp. p. 1535; Gaz. vol. 148; p. 249.  
 Reed, G. H., New York, N. Y. Telephone-mouthpiece. No. 932,323; Aug. 24; Sp. p. 5702; Gaz. vol. 145; p. 973.  
 Reed, G. J., Peoria, assignor of one-half to A. Meierhofer, Minonk, Ill. Mouth-speculum. No. 925,380; June 15; Sp. p. 4793; Gaz. vol. 143; p. 819.  
 Reed, G. J., and A. Meierhofer, Minonk, Ill. Veterinary dental instrument. No. 925,379; June 15; Sp. p. 4790; Gaz. vol. 143; p. 819.  
 Reed, G. L. (See Reed, F. W. and G. L.)  
 Reed, H., Philadelphia, Pa. Railway-switch. No. 914,976; Mar. 9; Sp. p. 2732; Gaz. vol. 140; p. 460.  
 Reed, I. B., Oil City, Pa. Electric igniter for gas-engines. No. 916,595; Mar. 30; Sp. p. 5980; Gaz. vol. 140; p. 1073.  
 Reed, J. C. (See Dawes and Reed.)  
 Reed, J. H., Lancaster, Wis. Cream-pump and egg-beater. No. 943,892; Dec. 21; Sp. p. 3996; Gaz. vol. 149; p. 693.  
 Reed, J. P., Irondale, Ohio. Curtain-pole. No. 911,444; Feb. 2; Sp. p. 803; Gaz. vol. 139; p. 140.  
 Reed, J. Q. (See De Moss, J. T., assignor.)  
 Reed, J. R. (See McManus, Reed, and Bounds.)  
 Reed, J. V., Louisville, Ky. Cutting, scoring, and creasing device. No. 937,331; Oct. 19; Sp. p. 3596; Gaz. vol. 147; p. 621.  
 Reed, J. W., Hammond, Ind. Holder for concrete-reinforcing. No. 939,743; Nov. 9; Sp. p. 2860; Gaz. vol. 148; p. 471.  
 Reed, L., Lambertville, N. J. Rubber overshoe and fastening device therefor. No. 927,282; July 6; Sp. p. 1187; Gaz. vol. 144; p. 195.  
 Reed, L. M., Cleveland, Ohio. Apparatus for making concrete, mortar, and the like. No. 930,084; Aug. 3; Sp. p. 971; Gaz. vol. 145; p. 157.  
 Reed, L. M., Cleveland, Ohio. Making concrete or cementitious compounds. No. 930,085; Aug. 3; Sp. p. 974; Gaz. vol. 145; p. 158.  
 Reed, L. M., Cleveland, Ohio. Apparatus for making concrete or cementitious compounds. No. 930,086; Aug. 3; Sp. p. 976; Gaz. vol. 145; p. 158.  
 Reed, M. H., Pittsburg, Pa. Scale. No. 917,148; Apr. 6; Sp. p. 389; Gaz. vol. 141; p. 68.  
 Reed, M. H., Pittsburg, Pa. Concrete-mixer. No. 939,629; Nov. 9; Sp. p. 2618; Gaz. vol. 148; p. 431.  
 Reed, M. W., South Fork, Pa. Thermometer-case. No. 918,472; Apr. 13; Sp. p. 3059; Gaz. vol. 141; p. 537.  
 Reed, R. B. (See Allen and Reed.)  
 Reed, R. H., assignor to Patent Ownership Company, New York, N. Y. Safety-razor. No. 923,579; June 1; Sp. p. 1046; Gaz. vol. 143; p. 160.  
 Reed, R. H., assignor to Patent Ownership Company, New York, N. Y. Safety-razor. No. 929,015; July 27; Sp. p. 4787; Gaz. vol. 144; p. 856.  
 Reed, R. L., Denver, Colo. Detachable mouthpiece for pipe-stems. No. 927,074; July 6; Sp. p. 791; Gaz. vol. 144; p. 126.  
 Reed, S. A., New York, N. Y. Signaling system. No. 908,698; Jan. 5; Sp. p. 566; Gaz. vol. 138; p. 89.  
 Reed, S. R. (See Reed, E., assignor.)  
 Reed, T. N., Itasca, Tex. Top. No. 931,487; Aug. 17; Sp. p. 3931; Gaz. vol. 145; p. 678.  
 Reed, T. P., Richland, Mo. Attachment for sound-reproducing machines. No. 925,025; June 15; Sp. p. 4142; Gaz. vol. 143; p. 704.  
 Reed, W. J., Janesville, Wis. Necktie-fastener. No. 938,606; Nov. 2; Sp. p. 374; Gaz. vol. 148; p. 56.  
 Reed, W. J., Janesville, Wis. Kitchen-sink. No. 938,607; Nov. 2; Sp. p. 375; Gaz. vol. 148; p. 56.  
 Reed, W. J., Janesville, Wis. Boat. No. 944,209; Dec. 21; Sp. p. 4659; Gaz. vol. 149; p. 798.  
 Reed, W. S., Leominster, Mass., assignor to W. S. Reed Coupling Company. Coupling. No. 910,416; Jan. 19; Sp. p. 4058; Gaz. vol. 138; p. 727.  
 Reeder, C. V., San Jose, Cal., assignor of one-half to M. E. R. Patterson, Trenton, Mo. Needle. No. 913,648; Feb. 23; Sp. p. 5452; Gaz. vol. 139; p. 960.  
 Reeder, F. L., Seneca, Nebr. Lacing-hook. No. 937,177; Oct. 19; Sp. p. 3284; Gaz. vol. 147; p. 572.  
 Reefe, D. R., Jacksonville, Fla. Sanitary cuspidor. No. 932,174; Aug. 24; Sp. p. 5413; Gaz. vol. 145; p. 924.  
 Reekie, J. D., Duluth, Minn. Furnace. No. 913,236; Feb. 23; Sp. p. 4575; Gaz. vol. 139; p. 821.  
 Reenstierna, G. L., assignor of two-thirds to W. H. Hinners, Edgewater, N. J. Vegetable-slicer. No. 940,063; Nov. 16; Sp. p. 3585; Gaz. vol. 148; p. 612.  
 Reenstierna, G. L., assignor of three-fourths to W. H. Hinners, Edgewater, N. J. Vegetable-slicer. No. 940,064; Nov. 16; Sp. p. 3586; Gaz. vol. 148; p. 613.  
 Reep, J., Centerville, Mich. Watch-guard. No. 911,761; Feb. 9; Sp. p. 1455; Gaz. vol. 139; p. 271.  
 Rees, D., Joplin, Mo., Churn. No. 941,948; Nov. 30; Sp. p. 7679; Gaz. vol. 148; p. 1294.  
 Rees, F. H., Elmira, N. Y. Eyelet. No. 911,762; Feb. 9; Sp. p. 1456; Gaz. vol. 139; p. 271.  
 Rees, J., Cardiff, England. Air-tube of tires. No. 913,850; Mar. 2; Sp. p. 362; Gaz. vol. 140; p. 61.  
 Rees, T. M., Pittsburg, Pa. Ship construction. No. 935,817; Oct. 5; Sp. p. 468; Gaz. vol. 147; p. 67.  
 Rees, W. (See Goldsmith, Rees, and Wheeler.)  
 Rees, W. H., Worcester, Mass., assignor to Aeolian Company, New York, N. Y. Pneumatic coupler for automatic musical instruments. No. 930,315; Aug. 3; Sp. p. 1395; Gaz. vol. 145; p. 232.  
 Reese, B. D., Philadelphia, Pa. Dirigible balloon. No. 939,089; Nov. 2; Sp. p. 1357; Gaz. vol. 148; p. 221.  
 Reese, C. B., Reese, N. C. Cabinet. No. 912,168; Feb. 9; Sp. p. 2322; Gaz. vol. 139; p. 402.  
 Reese, J. E., Louisville, Ky. Railway-crossing. No. 930,833; Aug. 10; Sp. p. 2608; Gaz. vol. 145; p. 446.  
 Reese, W., Philadelphia, Pa. Adjustable brush-bridle. No. 928,699; July 20; Sp. p. 4149; Gaz. vol. 144; p. 723.  
 Reesser, E. R., Tamaqua, Pa., assignor, by mesne assignments, to National Water Main Cleaning Company, New York, N. Y. Device for cleaning pipe-lines. No. 929,110; July 27; Sp. p. 4982; Gaz. vol. 144; p. 887.  
 Reessor, I. C., assignor of one-half to P. W. Ellis and G. W. Perry, Denver, Colo. Self-locking seal for cars, &c. No. 908,803; Jan. 5; Sp. p. 773; Gaz. vol. 138; p. 122.  
 Reessor, I. C., assignor of one-half to H. W. Robare, Denver, Colo. Self-locking seal for cars, &c. No. 910,021; Jan. 19; Sp. p. 3203; Gaz. vol. 138; p. 591.  
 Reesor, J., and C. W. Steel, Toronto, Ontario, Canada. Hot-water heater. No. 920,390; May 4; Sp. p. 616; Gaz. vol. 142; p. 98.  
 Reetz, J., Dusseldorf, Germany. Polishing-machine. No. 917,149; Apr. 6; Sp. p. 392; Gaz. vol. 141; p. 68.  
 Reeve, H. E., New York, N. Y. Mechanism for gongs and the like. (Reissue.) No. 12,914; Feb. 2; Sp. p. 1033; Gaz. vol. 139; p. 179.  
 Reeve, H. E., New York, N. Y. Binding-post. No. 916,486; Mar. 30; Sp. p. 5745; Gaz. vol. 140; p. 1037.



*Alphabetical list of patentees—Continued.*

- Reeve, H. E., New York, N. Y. Joint. No. 918,198; Apr. 13; Sp. p. 2510; Gaz. vol. 141; p. 448.
- Reeve, H. E., New York, N. Y. Gong-striking mechanism. No. 925,439; June 15; Sp. p. 4912; Gaz. vol. 143; p. 839.
- Reeve, H. E., New York, N. Y. Electric switch. No. 933,489; Sept. 7; Sp. p. 1092; Gaz. vol. 146; p. 157.
- Reeve, S. A., Worcester, assignor to C. F. Brown, trustee, Reading, Mass. Compound explosive-engine. No. 922,509; May 25; Sp. p. 4950; Gaz. vol. 142; p. 883.
- Reeve, S. A., Worcester, assignor to C. F. Brown, trustee, Reading, Mass. Compound internal-combustion engine. No. 926,134; June 29; Sp. p. 6376; Gaz. vol. 143; p. 1132.
- Reeve, S. A., Worcester, assignor to C. F. Brown, trustee, Reading, Mass. Locomotive-boiler. No. 938,171; Oct. 26; Sp. p. 5390; Gaz. vol. 147; p. 920.
- Reeve, S. A., New Haven, Conn., assignor, by mesne assignments, to C. P. Power Company, Newark, N. J. Valve mechanism for engines and compressors. (Reissue.) No. 12,991; July 13; Sp. p. 3179; Gaz. vol. 144; p. 543.
- Reeves & Browne. (See Sneyd, F. C., assignor.)
- Reeves, C. M., and E. Fuller, Cedartown, Ga. Bolt construction. No. 937,716; Oct. 19; Sp. p. 4408; Gaz. vol. 147; p. 749.
- Reeves & Company. (See Clay, H. C., assignor.)
- Reeves, E. A. (See Herron, W. C., assignor.)
- Reeves, E. A., Milford, Conn. Fastening device. No. 925,596; June 22; Sp. p. 5231; Gaz. vol. 143; p. 920.
- Reeves, E. A., Bridgeport, Conn. Valve. No. 932,494; Aug. 31; Sp. p. 6055; Gaz. vol. 145; p. 1052.
- Reeves, F. W., Pittsburg, Pa. Gas-engine. No. 933,109; Sept. 7; Sp. p. 150; Gaz. vol. 146; p. 25.
- Reeves, G. M. (See Fox and Reeves.)
- Reeves, J. H., Jr., Eufaula, Ala. Tag-envelop and seal. No. 925,597; June 22; Sp. p. 5233; Gaz. vol. 143; p. 921.
- Reeves, J. P., *et al.* (See Herritt, L., assignor.)
- Reeves, W. D., Atlanta, Ga. Candy-twisting machine. No. 942,284; Dec. 7; Sp. p. 552; Gaz. vol. 149; p. 86.
- Refsum, E. and T., assignors to Brödr. Refsums Stöberi & Mek, Vaerksted, Drammen, and Holst & Fleischer, Christiania, Norway. Mold-ing hollow articles in sand by means of divided patterns. No. 925,724; June 22; Sp. p. 5508; Gaz. vol. 143; p. 960.
- Refsum, T. (See Refsum, E. and T.)
- Regal, A., Jägerndorf, Austria-Hungary. Mechanism for electrically operating jacquards without pattern-cards. No. 935,818; Oct. 5; Sp. p. 470; Gaz. vol. 147; p. 67.
- Regal Shoe Company. (See Bliss and White, assignors.)
- Regan, C. H. (See Marendaz, H. F., assignor.)
- Regan, J., New Bedford, Mass., assignor to Crompton & Knowles Loom Works. Electric warp stop-motion. No. 939,924; Nov. 9; Sp. p. 3245; Gaz. vol. 148; p. 535.
- Regan, J. C., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Pawl-and-ratchet mechanism. No. 917,965; Apr. 13; Sp. p. 2023; Gaz. vol. 141; p. 363.
- Regan, L. F., Walker, Minn. Shears. No. 911,680; Feb. 9; Sp. p. 1311; Gaz. vol. 139; p. 244.
- Regan, M. J. (See Murnane, T. H., assignor.)
- Regelson, J. G., Schenectady, N. Y. Gage. No. 915,219; Mar. 16; Sp. p. 3247; Gaz. vol. 140; p. 567.
- Regenold, F., Memphis, Tenn. Means for lubricating flanges of car-wheels. No. 921,162; May 11; Sp. p. 2169; Gaz. vol. 142; p. 382.
- Regenold, F., assignor of one-third to R. Delpech and one-third to E. H. Davis, Memphis, Tenn. Tobacco-pipe. No. 925,381; June 15; Sp. p. 4795; Gaz. vol. 143; p. 819.
- Regenstein, J., Atlanta, Ga. One-piece folding suit case or box. No. 922,334; May 18; Sp. p. 4588; Gaz. vol. 142; p. 797.
- Regina Company. (See Koch, H., assignor.)
- Regina Company. (See Lampere, J., assignor.)
- Regina Company. (See Sampere, J., assignor.)
- Register, A. L. (See Atwood, L., assignor.)
- Rehaut, J., Dobbs Ferry, N. Y. Building-block and wall constructed thereof. No. 926,767; July 6; Sp. p. 123; Gaz. vol. 144; p. 20.
- Rehbock, J., assignor of one-half to A. Hüni, Zurich, Switzerland. Spectrum-action. No. 935,271; Sept. 28; Sp. p. 4618; Gaz. vol. 146; p. 821.
- Rehburg, W. A. (See Schill, P., assignor.)
- Rehländer, P., Charlottenburg, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Aralkyl-para-amino-phenol. No. 922,040; May 18; Sp. p. 4014; Gaz. vol. 142; p. 702.
- Rehling, J. W., Pittsburg, Pa. Pleasure-railway. No. 915,382; Mar. 16; Sp. p. 3562; Gaz. vol. 140; p. 621.
- Rehm, C. A., Oak Park, Ill. Geographical globe. No. 930,316; Aug. 3; Sp. p. 1398; Gaz. vol. 145; p. 232.
- Rehmann, H., Mülheim-on-the-Ruhr, Germany. Revolving grate for gas-producers. No. 937,466; Oct. 19; Sp. p. 3919; Gaz. vol. 147; p. 666.
- Rehor, J. (See Kundt and Rehor.)
- Rehse, O., Germantown, Cal. Screw. No. 924,273; June 8; Sp. p. 2576; Gaz. vol. 143; p. 419.
- Reich, O. C., Denver, Colo. Repair device for tires. No. 928,069; July 13; Sp. p. 2835; Gaz. vol. 144; p. 483.
- Reich, O. F., Riverdale, Ill. Pillow. (Reissue.) No. 12,952; May 4; Sp. p. 1649; Gaz. vol. 142; p. 264.
- Reich, R., Berlin, Germany. Atomizer for paint or the like. No. 930,087; Aug. 3; Sp. p. 980; Gaz. vol. 145; p. 159.
- Reichard, J., Brooklyn, N. Y. Safety-razor. No. 923,077; May 25; Sp. p. 6151; Gaz. vol. 142; p. 1067.
- Reichard, W. H. (See Ramby and Reichard.)
- Reichart, G. (See Roehrig, B. F., assignor.)
- Reichart, G. (See Schroder, C., assignor.)
- Reichelt, B., assignor to Beta Fertilizer Company, Newark, N. J. Fertilizer. No. 943,460; Dec. 14; Sp. p. 3066; Gaz. vol. 149; p. 515.
- Reichert, J., Racine, Wis. Tank-lug. No. 911,071; Feb. 2; Sp. p. 97; Gaz. vol. 139; p. 18.
- Reichert, L., Scranton, Pa. Automatic drilling-machine. No. 926,606; June 29; Sp. p. 7302; Gaz. vol. 143; p. 1288.
- Reicherter, H., Cameron, W. Va. Spool and twine holding device. No. 941,949; Nov. 30; Sp. p. 7682; Gaz. vol. 148; p. 1294.
- Reichman, W. W., Mahrud, Miss. Combined clod-crusher and harrow. No. 913,979; Mar. 2; Sp. p. 694; Gaz. vol. 140; p. 108.
- Reid, A., assignor to Holyoke Machine Company, Worcester, Mass. Gate-controlling mechanism for water-wheels. No. 925,839; June 22; Sp. p. 5777; Gaz. vol. 143; p. 1000.
- Reid, A. H., Philadelphia, Pa. Apparatus for treating cream, milk, &c. No. 944,634; Dec. 28; Sp. p. 5614; Gaz. vol. 149; p. 974.
- Reid, A. H., assignor of one-sixth to N. K. Reid, one-sixth to H. Reid, Sr., and one-sixth to H. S. Reid, Toronto, Ontario, Canada. Brake-shoe. No. 943,935; Dec. 21; Sp. p. 4235; Gaz. vol. 149; p. 729.
- Reid, D., Ithaca, N. Y. Motor-cylinder. No. 927,075; July 6; Sp. p. 792; Gaz. vol. 144; p. 126.
- Reid, F. T., Olathe, Kans. Valve. No. 917,895; Apr. 13; Sp. p. 1879; Gaz. vol. 141; p. 343.
- Reid, H., Sr., *et al.* (See Reid, A. H., assignor.)
- Reid, H. N., *et al.* (See Norton and Reid.)
- Reid, H. S., *et al.* (See Reid, A. H., assignor.)
- Reid, J., Dewmaine, Ill. Safety-frog. No. 929,249; July 27; Sp. p. 5265; Gaz. vol. 144; p. 933.
- Reid, J., Childress, Tex. Canopy-top for vehicles. No. 941,274; Nov. 23; Sp. p. 6249; Gaz. vol. 148; p. 1046.
- Reid, J. H., Newark, N. J. Electric furnace. No. 910,581; Jan. 26; Sp. p. 4414; Gaz. vol. 138; p. 808.
- Reid, J. H., Newark, N. J. Electric furnace. No. 910,582; Jan. 26; Sp. p. 4416; Gaz. vol. 138; p. 808.
- Reid, J. H., Newark, N. J. Electrolytic cell. No. 917,795; Apr. 13; Sp. p. 1672; Gaz. vol. 141; p. 310.
- Reid, J. H., Newark, N. J. Electric furnace. No. 917,796; Apr. 13; Sp. p. 1673; Gaz. vol. 141; p. 310.
- Reid, J. H., Newark, N. J. Refining metal. No. 920,391; May 4; Sp. p. 618; Gaz. vol. 142; p. 98.
- Reid, J. H., Newark, N. J. Recovering precious metals. No. 937,387; Oct. 19; Sp. p. 3730; Gaz. vol. 147; p. 639.
- Reid, J. W. (See Draper and Reid.)
- Reid, N. K., *et al.* (See Reid, A. H., assignor.)
- Reid, N. W., Roundaway, Miss. Door-fastener. No. 936,164; Oct. 5; Sp. p. 1183; Gaz. vol. 147; p. 180.
- Reid, T. B., Morristown, N. J. Hose-coupling. No. 911,840; Feb. 9; Sp. p. 1592; Gaz. vol. 139; p. 295.
- Reid, W., Chicago, Ill. Self-soldering cable-joint. No. 927,166; July 6; Sp. p. 965; Gaz. vol. 144; p. 157.
- Reid, W., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Three-wire telephone system. No. 910,314; Jan. 19; Sp. p. 3844; Gaz. vol. 138; p. 693.
- Reid, W., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Service-meter system. No. 929,708; Aug. 3; Sp. p. 141; Gaz. vol. 145; p. 25.
- Reid, W. G., Cold Spring, N. Y. Beam-notching die. No. 912,324; Feb. 16; Sp. p. 2686; Gaz. vol. 139; p. 491.
- Reid, W. H., New York, N. Y. Bottle-closure. No. 942,665; Dec. 7; Sp. p. 1316; Gaz. vol. 149; p. 216.
- Reid, W. J., Scranton, Pa. Brassière garment. No. 933,265; Sept. 7; Sp. p. 541; Gaz. vol. 146; p. 82.
- Reidenbach, H., Marion, Ind. Spring structure. No. 939,090; Nov. 2; Sp. p. 1360; Gaz. vol. 148; p. 221.
- Reidy, J. (See Clundt and Reid.)
- Reidy, D. C. (See Wyler and Reid.)
- Reif, O. M., Allegheny, Pa. Brick molding and pressing machine. No. 910,724; Jan. 26; Sp. p. 4686; Gaz. vol. 138; p. 852.
- Reifenstein, H. W., and C. J. Fox, Syracuse, N. Y. Mail-packeting machine. No. 911,763; Feb. 9; Sp. p. 1457; Gaz. vol. 139; p. 272.

*Alphabetical list of patentees—Continued.*

- Reiff, E. F., Philadelphia, Pa. Cracker-jar. No. 944,279; Dec. 28; Sp. p. 4815; Gaz. vol. 149; p. 849.
- Reiff, W. H., assignor to D. J. Potter, Philadelphia, Pa. Automatic alarm. No. 941,950; Nov. 30; Sp. p. 7683; Gaz. vol. 148; p. 1294.
- Reifgraber, J. J., St. Louis, Mo. Automatic firearm. No. 929,491; July 27; Sp. p. 5766; Gaz. vol. 144; p. 1012.
- Reifsnnyder, J. H., Canton, Ohio. Automobile-brake attachment. No. 935,927; Oct. 5; Sp. p. 700; Gaz. vol. 147; p. 103.
- Reigart, C. (See Davenport and Reigart.)
- Reiger, C., assignor to A. Boettler and H. F. W. Ruhe, St. Louis, Mo. Vehicle attachment for detaining draft-animals. No. 943,100; Dec. 14; Sp. p. 2320; Gaz. vol. 149; p. 394.
- Reiley, G. K., Scottsdale, Pa. Spike-puller. No. 932,903; Aug. 31; Sp. p. 6906; Gaz. vol. 145; p. 1186.
- Reilly, F. A., New York, N. Y. Sofa-pillow cover. No. 944,910; Dec. 28; Sp. p. 6203; Gaz. vol. 149; p. 1067.
- Reilly, R. G., Corona, N. Y., assignor to North American Reduction Company. Metallurgical furnace. No. 927,283; July 6; Sp. p. 1190; Gaz. vol. 144; p. 195.
- Reimers, A. E., New York, N. Y. Electric heating device. No. 910,725; Jan. 26; Sp. p. 4689; Gaz. vol. 138; p. 852.
- Reimers, D. H., Chicago, Ill. Crankless engine or motor. No. 936,036; Oct. 5; Sp. p. 918; Gaz. vol. 147; p. 139.
- Rein, R., Berlin, Germany. Controlling device for calculating-machines with two counting mechanisms. No. 934,756; Sept. 21; Sp. p. 3576; Gaz. vol. 146; p. 623.
- Rein, R., Berlin, Germany. Carrying mechanism. No. 936,942; Oct. 12; Sp. p. 2777; Gaz. vol. 147; p. 464.
- Rein, R., Berlin, Germany. Calculating-machine. No. 938,790; Nov. 2; Sp. p. 728; Gaz. vol. 148; p. 118.
- Rein, R., Berlin, Germany. Calculating-machine. No. 938,791; Nov. 2; Sp. p. 730; Gaz. vol. 148; p. 118.
- Reinecke, W., Speele, K. H., Landgrebe, Obervellmar, and F. G. Wilhelm, assignors of one-fifth to H. Duelfer and one-fifth to T. Drubel, Cassel, Germany. Potato-planter. No. 917,360; Apr. 6; Sp. p. 823; Gaz. vol. 141; p. 140.
- Reineke, A., Chicago, Ill. Supplemental seat. No. 942,793; Dec. 7; Sp. p. 1565; Gaz. vol. 149; p. 258.
- Reineking, F. C., Jersey City, N. J. Reed air-intake regulator for carbureters. No. 939,549; Nov. 9; Sp. p. 2434; Gaz. vol. 148; p. 404.
- Reineking, F. C., Jersey City, N. J. Reed air-intake regulator for carbureters. No. 943,996; Dec. 21; Sp. p. 4237; Gaz. vol. 149; p. 730.
- Reinforced Concrete Pipe Company. (See Phelan, J. M., assignor.)
- Reinforcement Supply Company. (See Bertin, P. E. and R. L., assignors.)
- Reinhardt, F., assignor of one-third to F. R. Farr, Eau Claire, Wis. Horse-collar pad. No. 924,581; June 8; Sp. p. 3184; Gaz. vol. 143; p. 521.
- Reinhardt, C., assignor to Autophone Company, San Francisco, Cal. Magazine-phonograph. No. 909,455; Jan. 12; Sp. p. 2065; Gaz. vol. 138; p. 367.
- Reinhardt, J. H., East Orange, N. J. Ship-repair apparatus. No. 932,719; Aug. 31; Sp. p. 6548; Gaz. vol. 145; p. 1128.
- Reinhardt, J. H., East Orange, N. J. Means for buoying ships or closing holes therein. No. 932,720; Aug. 31; Sp. p. 6550; Gaz. vol. 145; p. 1128.
- Reinhart, D. S., Richmond, Va. Window-sash fastener. No. 926,077; June 22; Sp. p. 6257; Gaz. vol. 143; p. 1078.
- Reinhart, J. P., Philadelphia, Pa. Folding chair. No. 917,150; Apr. 6; Sp. p. 394; Gaz. vol. 141; p. 68.
- Reinier, B., Vidauban, France. Apparatus for raising submerged ships and other bodies. No. 934,838; Sept. 21; Sp. p. 3746; Gaz. vol. 146; p. 661.
- Reiniger, Gebbert & Schall Aktiengesellschaft. (See Renz, E., assignor.)
- Reiniger, R., New York, N. Y. Clothes-line support. No. 915,220; Mar. 16; Sp. p. 3248; Gaz. vol. 140; p. 568.
- Reinmiller, D., Racine, Wis. Window-sash lock. No. 914,750; Mar. 9; Sp. p. 2318; Gaz. vol. 140; p. 388.
- Reinmiller, W. C., and F. L. Campbell, Atlanta, Ill. Burial-vault. No. 912,414; Feb. 16; Sp. p. 2873; Gaz. vol. 139; p. 521.
- Reinoehl, A. W., Philadelphia, Pa. Aeroplane. No. 935,862; Oct. 5; Sp. p. 655; Gaz. vol. 147; p. 81.
- Reinoehl, C. W. (See Whiteman and Reinoehl.)
- Reinoehl, C. W., and B. L. Weaver, Steelton, Pa. Combined tie-plate and guard-rail brace. No. 909,670; Jan. 12; Sp. p. 2491; Gaz. vol. 138; p. 442.
- Reinoehl, C. W., and B. L. Weaver, Steelton, Pa. Reversible-guard guard-rail. No. 912,618; Feb. 16; Sp. p. 3308; Gaz. vol. 139; p. 592.
- Reinoehl, C. W., and B. L. Weaver, Steelton, Pa. Railway-frog. No. 912,619; Feb. 16; Sp. p. 3309; Gaz. vol. 139; p. 593.
- Reinoehl, C. W., and B. L. Weaver, Steelton, Pa. Railroad rail and crossing. No. 912,620; Feb. 16; Sp. p. 3311; Gaz. vol. 139; p. 593.
- Reinoehl, C. W., and B. L. Weaver, Steelton, Pa. Railroad-frog. No. 912,621; Feb. 16; Sp. p. 3312; Gaz. vol. 139; p. 593.
- Reinoehl, C. W., and B. L. Weaver, Steelton, Pa. Railway-switch. No. 919,950; Apr. 27; Sp. p. 6387; Gaz. vol. 141; p. 1092.
- Reinoehl, C. W., and B. L. Weaver, Steelton, Pa. Railway structure. No. 921,887; May 18; Sp. p. 3695; Gaz. vol. 142; p. 652.
- Reinoehl, C. W., and B. L. Weaver, Steelton, Pa. Guard-rail. No. 925,226; June 15; Sp. p. 4528; Gaz. vol. 143; p. 773.
- Reinoehl, C. W., and B. L. Weaver, Steelton, Pa. Railway-rail support. No. 925,227; June 15; Sp. p. 4529; Gaz. vol. 143; p. 773.
- Reinoehl, C. W., and B. L. Weaver, Steelton, Pa. Railway-switch. No. 943,269; Dec. 14; Sp. p. 2659; Gaz. vol. 149; p. 450.
- Reinoehl, C. W., Steelton, and M. W. Long, Harrisburg, Pa. Switch-stand. No. 913,163; Feb. 23; Sp. p. 4405; Gaz. vol. 139; p. 796.
- Reinoehl, C. W., Steelton, and M. W. Long, Harrisburg, Pa. Railway-switch. No. 925,228; June 15; Sp. p. 4531; Gaz. vol. 143; p. 773.
- Reinoehl, C. W., Steelton, and M. W. Long, Harrisburg, Pa. Railway-switch. No. 925,726; June 22; Sp. p. 5511; Gaz. vol. 143; p. 961.
- Reinoehl, C. W., Steelton, and C. W. Long, Fort Hunter, Pa. Switch-stand. No. 941,814; Nov. 30; Sp. p. 7414; Gaz. vol. 148; p. 1246.
- Reinoehl, C. W., and W. M. Henderson, Steelton, Pa. Car-derailing device. No. 925,725; June 22; Sp. p. 5509; Gaz. vol. 143; p. 960.
- Reinsberg, S., Quincy, Ill. Machine for making buttons. No. 917,487; Apr. 6; Sp. p. 1038; Gaz. vol. 141; p. 181.
- Reinsel, J. T. (See Thomas, C. O., assignor.)
- Reintsma, J. (See Hinders and Reintsma.)
- Reis, J. L. M. A., Antwerp, Belgium. Means for facilitating the production of steam. No. 934,572; Sept. 21; Sp. p. 3212; Gaz. vol. 146; p. 560.
- Reisert, H., Cologne, Germany. Water-purifying apparatus. No. 938,075; Oct. 26; Sp. p. 5182; Gaz. vol. 147; p. 887.
- Reisert, M. E., assignor to Hennefer Maschinenfabrik C. Reuther & Reisert, M. B. H., Hennefer-on-the-Sieg, Germany. Automatic weighing-scale. No. 941,588; Nov. 30; Sp. p. 6909; Gaz. vol. 148; p. 1169.
- Reiss, G. T., Hamilton, Ohio, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Tool-holder. No. 920,998; May 11; Sp. p. 1842; Gaz. vol. 142; p. 326.
- Reist, H. G., Schenectady, N. Y., assignor to General Electric Company. Means for protecting submerged motors. No. 918,596; Apr. 20; Sp. p. 3336; Gaz. vol. 141; p. 606.
- Reist, H. G., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 925,132; June 15; Sp. p. 4341; Gaz. vol. 143; p. 740.
- Reist, H. G., and J. E. Noeggerath, Schenectady, N. Y., assignors to General Electric Company. Collector-brush. No. 929,492; July 27; Sp. p. 5773; Gaz. vol. 144; p. 1012.
- Reister, J. C., Eagle Lake, Tex. Seal. No. 930,227; Aug. 3; Sp. p. 1239; Gaz. vol. 145; p. 205.
- Reiter, E. C., Rockville, Conn. Pencil-holder. No. 942,747; Dec. 7; Sp. p. 1478; Gaz. vol. 149; p. 242.
- Reiter, P. G. (See Cornish, H. B., assignor.)
- Reith, G. C., and G. F. Blade, Philadelphia, Pa. Coin-selector. No. 944,819; Dec. 28; Sp. p. 6017; Gaz. vol. 149; p. 1036.
- Reitz, A., Bond, Md. Folding turn-table. No. 932,495; Aug. 31; Sp. p. 6066; Gaz. vol. 145; p. 1052.
- Reitz, A. F. (See Neudeck, A. W., assignor.)
- Reitz, J., Schmagendorf, near Berlin, assignor to Firm of P. Simon, Plauen, Germany. Radium compound and making same. No. 920,881; May 4; Sp. p. 1615; Gaz. vol. 142; p. 257.
- Rekar, J. J., San Francisco, Cal. Aerial machine. No. 922,952; May 25; Sp. p. 5898; Gaz. vol. 142; p. 1028.
- Reliance Electric & Manufacturing Company. (See Reno and Kaetker, assignors.)
- Relinghaus, R. H., Wayne, Nebr. Combined table and ironing-board. No. 930,884; Aug. 10; Sp. p. 2611; Gaz. vol. 145; p. 446.
- Remané, H., assignor to Deutsche Gasglühlicht Aktien Gesellschaft (Auer-gesellschaft), Berlin, Germany. Miner's electric lamp. No. 939,630; Nov. 9; Sp. p. 2620; Gaz. vol. 148; p. 431.
- Remané, H., and E. Hurwitz, Berlin, and E. Gottschalk, Charlottenburg, assignors to Deutsche Gasglühlicht Aktien Gesellschaft Auer-gesellschaft, Berlin, Germany. Electric glow-lamp. No. 919,381; Apr. 27; Sp. p. 5196; Gaz. vol. 141; p. 901.
- Rembusch, F. J., Shelbyville, Ind. Screen. No. 937,550; Oct. 19; Sp. p. 4092; Gaz. vol. 147; p. 696.
- Remde, E. H., assignor to Baker Motor Vehicle Company, Cleveland, Ohio. Vehicle-body. No. 932,058; Aug. 24; Sp. p. 5188; Gaz. vol. 145; p. 885.
- Remelius, C., New York, assignor to Columbia Machine Works & Malleable Iron Co., Brooklyn, N. Y. Machine for removing from and replacing gears, &c., upon shafts. No. 909,671; Jan. 12; Sp. p. 2493; Gaz. vol. 138; p. 442.
- Remer, F. W., Lawton, Okla. Rotary engine. No. 910,085; Jan. 19; Sp. p. 3326; Gaz. vol. 138; p. 612.
- Remer, F. W., Lawton, Okla. Advertising-machine. No. 931,218; Aug. 17; Sp. p. 3369; Gaz. vol. 145; p. 585.
- Remhof, C., Brooklyn, N. Y. Syringe. No. 933,490; Sept. 7; Sp. p. 1094; Gaz. vol. 146; p. 157.
- Remington, A. M., assignor to Simonds Manufacturing Company, Fitchburg, Mass. Forming the clasps of the interlocking portions of extensible frames for saw-blades or other tools. No. 928,217; July 13; Sp. p. 3129; Gaz. vol. 144; p. 533.
- Remington, H. W., New York, N. Y. Structural hatch and roof covering. No. 932,414; Aug. 24; Sp. p. 5868; Gaz. vol. 145; p. 1002.
- Remington Typewriter Company. (See Greenwood, G. A., assignor.)
- Remington Typewriter Company. (See Roche, W. J., assignor.)
- Remington Typewriter Company. (See Woodward, O., assignor.)



*Alphabetical list of patentees—Continued.*

Remington Typewriter Company. (See Yaw, C. B., assignor.)

Remington, W. M. (See Duryea and Remington.)

Remmek, F. M., Indianapolis, Ind. Shaft construction. No. 931,488; Aug. 17; Sp. p. 3933; Gaz. vol. 145; p. 678.

Remmen, J., Donora, Pa. Apparatus for making metal articles by pressure through dies. No. 927,076; July 6; Sp. p. 795; Gaz. vol. 144; p. 127.

Remmen, J., Donora, Pa. Wire and rod coiling and cooling device. No. 937,551; Oct. 19; Sp. p. 4094; Gaz. vol. 147; p. 696.

Remmers, T. W., St. Louis, Mo. Car-truck. No. 944,820; Dec. 28; Sp. p. 6022; Gaz. vol. 149; p. 1036.

Remnsnider, G., Belleville, Ill. Street-sweeper. No. 918,910; Apr. 20; Sp. p. 4068; Gaz. vol. 141; p. 713.

Remnsnider, G., Belleville, Ill., assignor to Bradley Stencil Machine Company, St. Louis, Mo. Stencil-machine. No. 922,815; May 25; Sp. p. 5600; Gaz. vol. 142; p. 982.

Rémond, A. (See Chaplet and Rémond.)

Rempe, F. G., Oakland, Cal. Game-board. No. 942,748; Dec. 7; Sp. p. 1479; Gaz. vol. 149; p. 242.

Rempel, J. E., Burrton, Kans. Harness-buckle. No. 929,709; Aug. 3; Sp. p. 146; Gaz. vol. 145; p. 23.

Rempes, C. L., Akron, Ohio. Tire-tread. No. 933,110; Sept. 7; Sp. p. 155; Gaz. vol. 146; p. 26.

Rempt, C. (See Behm and Rempt.)

Remsen, G. E., and L. Bachwitz, deceased, Brooklyn, N. Y.; M. Bachwitz, administratrix. Folding chair or seat. No. 920,650; May 4; Sp. p. 1119; Gaz. vol. 142; p. 183.

Remsnnyder, W., Muncy Valley, Pa. Safety-grab. No. 933,583; Sept. 7; Sp. p. 1267; Gaz. vol. 146; p. 187.

Renard Road and Rail Transport Corporation. (See Surcouf, E., assignor.)

Renaud, T. H., assignor of one-third to W. Bawden and one-third to E. L. Adreon, Jr., St. Louis, Mo. Piston-packing ring. No. 941,536; Nov. 30; Sp. p. 6812; Gaz. vol. 148; p. 1153.

Renault, L., Billancourt, France. Axle for motor road-vehicles. No. 916,888; Mar. 30; Sp. p. 6509; Gaz. vol. 140; p. 1163.

Rendall, G. F., New York, N. Y. Car-wheel axle and bearing. No. 944,463; Dec. 28; Sp. p. 5223; Gaz. vol. 149; p. 914.

Rendall, G. F., New York, N. Y., assignor to American Reduction Company. Furnace for the reduction of ores. No. 910,086; Jan. 19; Sp. p. 3329; Gaz. vol. 138; p. 613.

Rendall, G. F., New York, N. Y., assignor to American Reduction Company. Ore-reducing furnace. No. 916,487; Mar. 30; Sp. p. 5746; Gaz. vol. 140; p. 1037.

Rendall, G. F., New York, N. Y., assignor to American Reduction Company. Furnace. No. 930,492; Aug. 10; Sp. p. 1745; Gaz. vol. 145; p. 315.

Rendall, G. F., New York, N. Y., assignor to American Reduction Company. Ore-reducing furnace. No. 931,145; Aug. 17; Sp. p. 3215; Gaz. vol. 145; p. 561.

Rendall, G. F., New York, N. Y., assignor to American Reduction Company. Reducing ores. No. 932,175; Aug. 24; Sp. p. 5414; Gaz. vol. 145; p. 923.

Rendall, G. F., New York, N. Y., assignor to American Reduction Company. Apparatus for concentrating. No. 936,563; Oct. 12; Sp. p. 2037; Gaz. vol. 147; p. 336.

Rendall, J., assignor to Fee and Mason, New York, N. Y. Support for sinks, &c. No. 911,611; Feb. 9; Sp. p. 1145; Gaz. vol. 139; p. 221.

Rendleman, J., Alto Pass, Ill. Veneer-machine. No. 916,016; Mar. 23; Sp. p. 4843; Gaz. vol. 140; p. 857.

Rendleman, N., Knoxville, assignor to Jones & Laughlin Steel Company, Pittsburg, Pa. Rail. No. 939,319; Nov. 9; Sp. p. 1920; Gaz. vol. 148; p. 327.

Rendleman, N., Knoxville, assignor to Jones & Laughlin Steel Company, Pittsburg, Pa. Manufacturing rails. No. 939,320; Nov. 9; Sp. p. 1921; Gaz. vol. 148; p. 328.

Renehan, A. B., Santa Fe, N. Mex. Bath-cabinet. No. 944,911; Dec. 28; Sp. p. 6204; Gaz. vol. 149; p. 1067.

Reneker, J. P., Logansport, Ind. Lifting device. No. 915,479; Mar. 16; Sp. p. 3748; Gaz. vol. 140; p. 652.

Renfors, H., Kajana, Russia. Auxiliary stock for firearms. No. 914,675; Mar. 9; Sp. p. 2158; Gaz. vol. 140; p. 362.

Renkenberger, E. J., Buffalo, N. Y. Stove-lid. No. 914,306; Mar. 2; Sp. p. 1384; Gaz. vol. 140; p. 215.

Renner, H. N., Star, Nebr. Automatic hay-stacker. No. 943,786; Dec. 21; Sp. p. 3775; Gaz. vol. 149; p. 657.

Renner, J., Rockwell City, Iowa. Frying device. No. 913,431; Feb. 23; Sp. p. 4956; Gaz. vol. 139; p. 887.

Rennerfelt, G., Scranton, Pa. Thrust-bearing. No. 914,075; Mar. 2; Sp. p. 900; Gaz. vol. 140; p. 141.

Rennerfelt, G., New York, N. Y. Thrust-bearing. No. 941,097; Nov. 23; Sp. p. 5848; Gaz. vol. 148; p. 987.

Rennert, O., London, England. Switching device. No. 936,666; Oct. 12; Sp. p. 2251; Gaz. vol. 147; p. 374.

Rennie, E., assignor to M. O. Crowell, Halifax, Nova Scotia, Canada. Detachable heel. No. 936,037; Oct. 5; Sp. p. 923; Gaz. vol. 147; p. 139.

Rennie, J. C., assignor to Allis-Chalmers Company, Milwaukee, Wis. Saw-guide. No. 930,228; Aug. 3; Sp. p. 1240; Gaz. vol. 145; p. 205.

Rennow, M. B., New York, N. Y. Apparatus for singeing fowls. No. 915,729; Mar. 23; Sp. p. 4303; Gaz. vol. 140; p. 765.

Reno, C. S., Cincinnati, Ohio, assignor to Triumph Electric Company. Electric controlling means. No. 919,463; Apr. 27; Sp. p. 5381; Gaz. vol. 141; p. 929.

Reno, C. S., and H. Kaetker, assignors to Reliance Electric & Manufacturing Company, Cincinnati, Ohio. Motor-driven swing-saw. No. 932,324; Aug. 24; Sp. p. 5703; Gaz. vol. 145; p. 973.

Reno, J. W., New York, N. Y. Apparatus for unloading scows. No. 922,190; May 18; Sp. p. 4306; Gaz. vol. 142; p. 751.

Reno, J. W., New York, N. Y. Inclined truck-elevator. No. 942,352; Dec. 7; Sp. p. 680; Gaz. vol. 149; p. 109.

Rensch, B., Toledo, Ohio. Card-holder. No. 929,016; July 27; Sp. p. 4792; Gaz. vol. 144; p. 856.

Rent, W. D., Pittsburg, Pa. Galley-stop. No. 910,150; Jan. 19; Sp. p. 3454; Gaz. vol. 138; p. 633.

Rentrow, L. W., Tacoma, Wash. Jointed ladder. No. 925,598; June 22; Sp. p. 5235; Gaz. vol. 143; p. 921.

Renth, L. E., Chicago, Ill. Hair-roll. No. 930,688; Aug. 10; Sp. p. 2183; Gaz. vol. 145; p. 381.

Rentsch, L. H., Meissen, Germany. Manufacturing reinforced tubular or hollow bodies. No. 937,178; Oct. 19; Sp. p. 3285; Gaz. vol. 147; p. 572.

Renville, S. H., Peever, S. D. Neck-yoke center. No. 937,179; Oct. 19; Sp. p. 3287; Gaz. vol. 147; p. 572.

Renwick, G. (See Dunn, T. S., assignor.)

Renwick, J. (See Powell and Renwick.)

Renworth, G. H., assignor, by mesne assignments, to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Temporary binder or loose-sheet holder. No. 932,059; Aug. 24; Sp. p. 5189; Gaz. vol. 145; p. 855.

Renz, E., assignor to Reiniger, Gebbert & Schall Aktiengesellschaft, Erlangen, Germany. Sound-damper. No. 914,879; Mar. 9; Sp. p. 2576; Gaz. vol. 140; p. 430.

Renzenbrink, A. L. and C. L., assignors of one-third to E. L. Renzenbrink, Canton, Ohio. Adjustable shade and curtain-pole bracket. No. 928,329; July 20; Sp. p. 3421; Gaz. vol. 144; p. 602.

Renzenbrink, C. L. (See Renzenbrink, A. L. and C. L.)

Renzenbrink, E. L. (See Renzenbrink, A. L. and C. L., assignors.)

Renzo, F., Paterson, N. J. Loom-shuttle. No. 919,637; Apr. 27; Sp. p. 5747; Gaz. vol. 141; p. 989.

Repach, C. H., Salt Lake City, Utah, assignor to F. Klepetko, New York, N. Y. Rabble-arm. No. 932,496; Aug. 31; Sp. p. 6067; Gaz. vol. 145; p. 1052.

Repert, G. H. (See Clemens and Repert.)

Repetto, J., Philadelphia, Pa. Vehicle. No. 914,880; Mar. 9; Sp. p. 2577; Gaz. vol. 140; p. 430.

Repetto, J., Philadelphia, Pa. Fifth-wheel construction. No. 934,757; Sept. 21; Sp. p. 3578; Gaz. vol. 146; p. 624.

Reppell, L. H., Kansas City, Mo. Brick-kiln. No. 915,309; Mar. 16; Sp. p. 3412; Gaz. vol. 140; p. 596.

Res Manufacturing Company. (See Kaufman, A., assignor.)

Rese, J. H., Washington, D. C. Toy. No. 908,498; Jan. 5; Sp. p. 134; Gaz. vol. 138; p. 24.

Reser, J. E., Great Bend, Kans. Mail-bag receiving and delivering apparatus. No. 934,356; Sept. 14; Sp. p. 2794; Gaz. vol. 146; p. 465.

Resseguie, N. F., Frederick, S. D. Car-coupling. No. 929,879; Aug. 3; Sp. p. 542; Gaz. vol. 145; p. 87.

Ressler, J. H., Pittsfield, Mass. Culinary vessel. No. 921,888; May 18; Sp. p. 3697; Gaz. vol. 142; p. 652.

Retaux, E. M. M., Abbeville, France. Machine for setting up and casting type. No. 919,951; Apr. 27; Sp. p. 6388; Gaz. vol. 141; p. 1092.

Rettig, G., Jr. (See Nuernberger and Rettig.)

Retzman, F., Alma, Nebr. Bottle-cleansing machine. No. 930,493; Aug. 10; Sp. p. 1747; Gaz. vol. 145; p. 315.

Reuling, W. E. (See Hobart and Reuling.)

Reulmann, W. F., Cincinnati, Ohio. Insole-tack-pulling machine. No. 912,730; Feb. 16; Sp. p. 3572; Gaz. vol. 139; p. 631.

Reum, C. F., Rockford, Ill. Jack-rafter bevel. No. 938,704; Nov. 2; Sp. p. 559; Gaz. vol. 143; p. 88.

Reusch, J., Wiesbaden, Germany. Washing device for cleaning wounds. No. 910,859; Jan. 26; Sp. p. 4956; Gaz. vol. 138; p. 895.

Reuse, C. (See Reuse, J. and C.)

Reuse, J. and C., Hal, Belgium. Resilient wheel. No. 921,283; May 11; Sp. p. 2438; Gaz. vol. 142; p. 424.

Reuss, A. L., Belleville, Ill. Inverted keel. No. 917,896; Apr. 13; Sp. p. 1881; Gaz. vol. 141; p. 343.

Reuter, E., New York, N. Y. Weaving-machine. No. 927,752; July 13; Sp. p. 2181; Gaz. vol. 144; p. 378.

Reuter, F. W., Milwaukee, Wis. Corner-fastening for bedsteads. No. 926,087; June 22; Sp. p. 6279; Gaz. vol. 143; p. 1081.

Reuter, L. H., Berkeley, Cal. Producing certain proteids from buttermilk. No. 911,269; Feb. 2; Sp. p. 491; Gaz. vol. 139; p. 84.

Reuter, W., Berlin, Nebr. Line-roller. No. 943,787; Dec. 21; Sp. p. 3778; Gaz. vol. 149; p. 658.

*Alphabetical list of patentees—Continued.*

- Reuther, J., East Aurora, N. Y. Potato-digger. No. 922,816; May 25; Sp. p. 5603; Gaz. vol. 142; p. 982.  
 Reuther, J., and L. Schulz, New Orleans, La. Weighing apparatus. No. 931,800; Aug. 24; Sp. p. 4612; Gaz. vol. 145; p. 800.  
 Reutzel, C., and H. Frey, Pittsburg, Pa. Planter. No. 927,284; July 6; Sp. p. 1193; Gaz. vol. 144; p. 196.  
 Revallot, C., Nice, France. Pipe-joint. No. 944,503; Dec. 28; Sp. p. 5329; Gaz. vol. 149; p. 929.  
 Reverdy, C., New York, assignor to F. Wesel Manufacturing Company, Brooklyn, N. Y. Etching apparatus. No. 924,934; June 15; Sp. p. 3940; Gaz. vol. 143; p. 673.  
 Revere Rubber Company. (See Cobb, H. Z., assignor.)  
 Reves, A. (See Richards, Marley, Kovács, and Reves.)  
 Revman, H. H., and W. H. Greenleaf, Gloucester, Mass. Garment-hanger. No. 924,935; June 15; Sp. p. 3943; Gaz. vol. 143; p. 674.  
 Revor, B., assignor of two-thirds to R. B. Smith and G. Lathrop, Syracuse, N. Y. Door-knob attachment. No. 922,041; May 18; Sp. p. 4016; Gaz. vol. 142; p. 702.  
 Revoli Photo-Tint and Chemical Company. (See Wilson, E. E., assignor.)  
 Revolving Dairy Filter Company. (See Horne, J. F., assignor.)  
 Rew, W. O., Eureka, Cal. Electric-cord retriever. No. 913,432; Feb. 23; Sp. p. 4957; Gaz. vol. 139; p. 887.  
 Rex Buggy Company. (See Hull, M. R., assignor.)  
 Rexach, U. (See Rexach y Torres and Peña y Martinez, assignors.)  
 Rexach y Torres, F., and F. S. D. Peña y Martinez, assignors of one-third to U. Rexach, Habana, Cuba. Automatic switch for railways. No. 942,600; Dec. 7; Sp. p. 1186; Gaz. vol. 149; p. 193.  
 Rexford, F. A. (See Laney, J. H., assignor.)  
 Rexford, L. P., assignor to American Paper Cutter & Manufacturing Company, St. Louis, Mo. Packing-box. No. 925,382; June 15; Sp. p. 4797; Gaz. vol. 143; p. 820.  
 Rexroth, J. J., Chicago, Ill. Double-acting pump. No. 940,192; Nov. 16; Sp. p. 3871; Gaz. vol. 148; p. 657.  
 Reyburn, A. V., Jr., et al. (See Phillips, W. A., assignor.)  
 Reyburn, J. E. (See Rankin, W. K., assignor.)  
 Reyburn, J. E., Philadelphia, Pa. Noiseless railway-crossing. No. 936,477; Oct. 12; Sp. p. 1856; Gaz. vol. 147; p. 308.  
 Reyher, G. W., Wichita, Kans. Hame-fastener. No. 939,321; Nov. 9; Sp. p. 1923; Gaz. vol. 148; p. 328.  
 Reyher, G., Berlin, Germany. Milling and like machine. No. 911,841; Feb. 9; Sp. p. 1593; Gaz. vol. 139; p. 295.  
 Reyher, H. E., La Grange, Ind. Display-rack for garments and the like. No. 923,705; June 1; Sp. p. 1314; Gaz. vol. 143; p. 203.  
 Reynard, J. K., East Elmhurst, N. Y. Metal-depositing apparatus. No. 929,017; July 27; Sp. p. 4794; Gaz. vol. 144; p. 857.  
 Reynolds, A., London, England. Electric furnace. No. 935,548; Sept. 28; Sp. p. 5193; Gaz. vol. 146; p. 911.  
 Reynolds, A. E., administratrix. (See Reynolds, G. H.)  
 Reynolds, D. A., assignor of one-half to L. T. Adams, New York, N. Y. Skirt-gage. No. 940,615; Nov. 16; Sp. p. 4803; Gaz. vol. 148; p. 800.  
 Reynolds, E., Milton, Mass. Wrench. No. 916,017; Mar. 23; Sp. p. 4844; Gaz. vol. 140; p. 857.  
 Reynolds, E., North Salem, N. Y. Douche-pan protector. No. 931,219; Aug. 17; Sp. p. 3372; Gaz. vol. 145; p. 586.  
 Reynolds, E. G., Nicholson, Pa. Box. No. 924,381; June 8; Sp. p. 2808; Gaz. vol. 143; p. 456.  
 Reynolds, E. P. (See Wakeman, B. S., assignor.)  
 Reynolds Electric Flasher Manufacturing Company. (See Ziegler and Bartling, assignors.)  
 Reynolds, F. D. (See Hart and Reynolds.)  
 Reynolds, F. D., and J. Sachs, assignors to Sachs Company, Hartford, Conn. Thermal cut-out. No. 926,962; July 6; Sp. p. 534; Gaz. vol. 144; p. 87.  
 Reynolds, F. S., Cranston, assignor to Cory & Reynolds Company, Providence, R. I. Safety attachment for scarf-pins. No. 942,517; Dec. 7; Sp. p. 1025; Gaz. vol. 149; p. 166.  
 Reynolds, G. A., Huntington Beach, and H. E. Bennett, Los Angeles, Cal. Match-shooting toy pistol. No. 924,936; June 15; Sp. p. 3944; Gaz. vol. 143; p. 674.  
 Reynolds, G. H., Mansfield Depot, Conn., assignor to Reynolds Ice Machine Company, New York, N. Y. Cooling or radiating mechanism. No. 921,627; May 11; Sp. p. 3154; Gaz. vol. 142; p. 539.  
 Reynolds, G. H., deceased, Mansfield Depot, Conn.; A. E. Reynolds, administratrix, assignor to General Fire Extinguisher Company. Pipe-coupling. No. 943,461; Dec. 14; Sp. p. 3066; Gaz. vol. 149; p. 515.  
 Reynolds Gas Engine Co. (See Reynolds, R. A., assignor.)  
 Reynolds, H. A., Woonsocket, R. I., assignor to Electric Compositor Company, New York, N. Y. Microscope-gage for fine measurements. No. 936,667; Oct. 12; Sp. p. 2252; Gaz. vol. 147; p. 374.  
 Reynolds, H. A., Woonsocket, R. I., assignor to Electric Compositor Company, New York, N. Y. Matrix-channeling machine. No. 939,631; Nov. 9; Sp. p. 2622; Gaz. vol. 148; p. 432.  
 Reynolds, H. A., Woonsocket, R. I., assignor to Electric Compositor Company, New York, N. Y. Dovetail-notch-chamfering machine for matrices. No. 939,632; Nov. 9; Sp. p. 2624; Gaz. vol. 148; p. 432.  
 Reynolds, H. A., Woonsocket, R. I., assignor to Electric Compositor Company, New York, N. Y. Combination punching-machine for matrices. No. 939,633; Nov. 9; Sp. p. 2727; Gaz. vol. 148; p. 433.  
 Reynolds, H. B., Petal, assignor of one-fourth to G. D. McInnis, one-fourth to W. M. Reynolds, one-fourth to J. C. Ballard, Hattiesburg, and one-eighth to W. H. Whittle, Collins, Miss. Cultivator. No. 936,943; Oct. 12; Sp. p. 2778; Gaz. vol. 147; p. 465.  
 Reynolds, H. W., New York, N. Y. Cream-separator. No. 929,250; July 27; Sp. p. 5266; Gaz. vol. 144; p. 933.  
 Reynolds, H. W., New York, N. Y., and J. A. Smith, Arlington, N. J. Nipple-flange. No. 943,123; Dec. 14; Sp. p. 2368; Gaz. vol. 149; p. 402.  
 Reynolds Ice Machine Company. (See Reynolds, G. H., assignor.)  
 Reynolds, J. N., and F. E. Buddington, assignors of one-third to A. Diefendorf, Chicago, Ill. Mechanism for controlling time-switches and for other purposes. No. 911,072; Feb. 2; Sp. p. 99; Gaz. vol. 139; p. 18.  
 Reynolds, J. O., Evansville, Ind. Chuck for high-speed drills. No. 928,700; July 20; Sp. p. 4150; Gaz. vol. 144; p. 723.  
 Reynolds, J. R., assignor to Waterproof Welt and Filler Company, Hartford, Conn. Material for waterproof welts. No. 924,106; June 8; Sp. p. 2165; Gaz. vol. 143; p. 362.  
 Reynolds, J. R., assignor to Smyth Manufacturing Company, Hartford, Conn. Book-sewing machine. No. 930,229; Aug. 3; Sp. p. 1242; Gaz. vol. 145; p. 205.  
 Reynolds, J. W., New York, N. Y. Loading and unloading apparatus. No. 909,222; Jan. 12; Sp. p. 1625; Gaz. vol. 138; p. 292.  
 Reynolds, O. B., Elgin, Ill. End-gate. No. 935,819; Oct. 5; Sp. p. 473; Gaz. vol. 147; p. 67.  
 Reynolds, P. M. (See Casella and Reynolds.)  
 Reynolds, P. M., San Francisco, Cal. Third-rail-conduit system. No. 927,428; July 6; Sp. p. 1462; Gaz. vol. 144; p. 242.  
 Reynolds, R. A., Detroit, Mich., assignor to Reynolds Gas Engine Co. Internal-combustion engine. No. 924,382; June 8; Sp. p. 2809; Gaz. vol. 143; p. 456.  
 Reynolds, R. V. R., Salt Lake City, Utah. Engineering instrument. No. 921,889; May 18; Sp. p. 3698; Gaz. vol. 142; p. 652.  
 Reynolds, S. W., West Toledo, Ohio. Spot. No. 922,191; May 18; Sp. p. 4308; Gaz. vol. 142; p. 751.  
 Reynolds, S. W., West Toledo, Ohio. Spot-setter. No. 926,287; June 29; Sp. p. 6702; Gaz. vol. 143; p. 1182.  
 Reynolds, T. C., Texarkana, Ark. Switch-thruster for electric railways. No. 924,830; June 15; Sp. p. 3731; Gaz. vol. 143; p. 638.  
 Reynolds, W. G., Polo, Ill. Attachment for planters. No. 941,951; Nov. 30; Sp. p. 7685; Gaz. vol. 148; p. 1295.  
 Reynolds, W. G., Chicago, Ill. Type-setting machine. No. 913,851; Mar. 2; Sp. p. 363; Gaz. vol. 140; p. 62.  
 Reynolds, W. G., Chicago, Ill. Type-making machine. No. 923,998; June 8; Sp. p. 1979; Gaz. vol. 143; p. 328.  
 Reynolds, W. G., Chicago, Ill. Printing form and type. No. 927,873; July 13; Sp. p. 2439; Gaz. vol. 144; p. 417.  
 Reynolds, W. H., assignor to Ransom & Randolph Company, Toledo, Ohio. Dental stool or the like. No. 909,223; Jan. 12; Sp. p. 1626; Gaz. vol. 138; p. 292.  
 Reynolds, W. H., assignor to Mellink Manufacturing Company, Toledo, Ohio. Wall-safe. No. 939,322; Nov. 9; Sp. p. 1925; Gaz. vol. 148; p. 329.  
 Reynolds, W. J., Providence, R. I. Animal-trap. No. 934,695; Sept. 21; Sp. p. 3470; Gaz. vol. 146; p. 604.  
 Reynolds, W. M., et al. (See Reynolds, H. B., assignor.)  
 Rhea, F., Schenectady, N. Y., assignor to General Electric Company. Block-signal system. No. 925,026; June 15; Sp. p. 4144; Gaz. vol. 143; p. 705.  
 Rheume, A. S., New York, N. Y. Tag or check. No. 922,510; May 25; Sp. p. 4955; Gaz. vol. 142; p. 883.  
 Rheem, W. M., East Boston, Mass., assignor, by mesne assignments, to Planters Compress Company of Maine. Cotton-gin. No. 931,801; Aug. 24; Sp. p. 4614; Gaz. vol. 145; p. 800.  
 Rheinberg, J., London, England. Box or case for cigarettes and like articles. No. 919,952; Apr. 27; Sp. p. 6395; Gaz. vol. 141; p. 1092.  
 Rheinberg, J., London, England. Color-printing. No. 930,689; Aug. 10; Sp. p. 2184; Gaz. vol. 145; p. 382.  
 Rheinfeldt, J. T. B., Philadelphia, Pa. Turning-tool. No. 931,889; Aug. 24; Sp. p. 4788; Gaz. vol. 145; p. 827.  
 Rheinfrank, G. B., and G. J. Gilsdorf, Toledo, Ohio. Shower device. No. 931,890; Aug. 24; Sp. p. 4791; Gaz. vol. 145; p. 827.  
 Rheinische Kunstseide-Fabrik Aktiengesellschaft. (See Müller, O., assignor.)  
 Rheinische Metallwaren-und Maschinenfabrik. (See Heldt, C., assignor.)



*Alphabetical list of patentees—Continued.*

- Rheinische Metallwaren-und Maschinenfabrik. (See Schmeisser, L., assignor.)  
 Rheinische Metallwaren-und Maschinenfabrik. (See Völler, K., assignor.)  
 Rheinstrom, I. (See Bodman, W. L., assignor.)  
 Rheolite Company. (See Phillips, W. A., assignor.)  
 Rhett, J. M., assignor of one-fourth to N. Christensen, Jr., Beaufort, S. C. Shade-roller bracket. No. 933,111; Sept. 7; Sp. p. 156; Gaz. vol. 146; p. 26.  
 Rheubottom, F. C., and R. B. Rayner, Union City, Mich. Stretcher. No. 935,056; Sept. 28; Sp. p. 4188; Gaz. vol. 146; p. 750.  
 Rhinhardt, W. E., *et al.* (See Baum, J. B., assignor.)  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Warp stop-motion for looms. No. 909,822; Jan. 12; Sp. p. 2792; Gaz. vol. 138; p. 491.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Filling-exhaustion-indicating mechanism for looms. No. 912,264; Feb. 9; Sp. p. 2515; Gaz. vol. 139; p. 433.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Filling-exhaustion-indicating mechanism for looms. No. 912,265; Feb. 9; Sp. p. 2519; Gaz. vol. 139; p. 433.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Filling-stop-signaling device for looms. No. 912,415; Feb. 16; Sp. p. 2873; Gaz. vol. 139; p. 521.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Thread-parting mechanism for looms. No. 912,416; Feb. 16; Sp. p. 2875; Gaz. vol. 139; p. 522.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Yarn-spinning apparatus. No. 913,164; Feb. 23; Sp. p. 4409; Gaz. vol. 139; p. 797.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Take-up mechanism for looms. No. 913,914; Mar. 2; Sp. p. 530; Gaz. vol. 140; p. 85.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Take-up mechanism for looms. No. 913,915; Mar. 2; Sp. p. 532; Gaz. vol. 140; p. 86.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Thread-parting mechanism for looms. No. 913,916; Mar. 2; Sp. p. 534; Gaz. vol. 140; p. 86.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Balling-machine. No. 913,980; Mar. 2; Sp. p. 695; Gaz. vol. 140; p. 109.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Means for facilitating warp change in looms. No. 916,596; Mar. 30; Sp. p. 5981; Gaz. vol. 140; p. 1073.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Stop-motion and measuring mechanism for twistors. No. 918,473; Apr. 13; Sp. p. 3061; Gaz. vol. 141; p. 538.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Picker-stick check for looms. No. 919,464; Apr. 27; Sp. p. 5385; Gaz. vol. 141; p. 929.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Yarn-reel. No. 920,777; May 4; Sp. p. 1380; Gaz. vol. 142; p. 224.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Thread-parting mechanism for looms. No. 922,511; May 25; Sp. p. 4958; Gaz. vol. 142; p. 883.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Starting and stopping mechanism for looms. No. 926,021; June 22; Sp. p. 6133; Gaz. vol. 143; p. 1059.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Automatic weft-replenishing loom. No. 934,015; Sept. 14; Sp. p. 2129; Gaz. vol. 146; p. 352.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Twister stop-motion. No. 941,463; Nov. 30; Sp. p. 6664; Gaz. vol. 148; p. 1129.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Traverse-motion for yarn-spinning apparatus. No. 941,648; Nov. 30; Sp. p. 7028; Gaz. vol. 148; p. 1159.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Traverse-motion for yarn-spinning apparatus. No. 941,649; Nov. 30; Sp. p. 7036; Gaz. vol. 148; p. 1190.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Traverse-motion for yarn-spinning apparatus. No. 941,650; Nov. 30; Sp. p. 7043; Gaz. vol. 148; p. 1190.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Filling-exhaustion-indicating means for looms. No. 943,846; Dec. 21; Sp. p. 3899; Gaz. vol. 149; p. 678.  
 Rhoades, A. E., assignor to Draper Company, Hopedale, Mass. Take-up mechanism for looms. No. 944,579; Dec. 28; Sp. p. 5503; Gaz. vol. 149; p. 955.  
 Rhoades, A. E., Hopedale, and W. I. Stimpson, Milford, assignors to Draper Company, Hopedale, Mass. Loom. No. 909,821; Jan. 12; Sp. p. 2789; Gaz. vol. 138; p. 491.  
 Rhoades, C. B., Verdierville, Va. Corn-thinner. No. 914,307; Mar. 2; Sp. p. 1385; Gaz. vol. 140; p. 215.  
 Rhoades, H. H., and N. P. Swann, Fletcher, Okla. Envelop. No. 916,597; Mar. 30; Sp. p. 5983; Gaz. vol. 140; p. 1074.  
 Rhoades, L. T., Phenixville, Pa. Transmission-gear for automobiles and other machinery. No. 934,016; Sept. 14; Sp. p. 2131; Gaz. vol. 146; p. 352.  
 Rhoades, R. H. (See Rhoades, W. J. and R. H.)  
 Rhoades, S. D., *et al.* (See Vosburgh, H. E., assignor.)  
 Rhoades, W. J. and R. H., White River township, Johnson county, Ind. Plant-setter. No. 934,095; Sept. 14; Sp. p. 2295; Gaz. vol. 146; p. 377.  
 Rhoades, W. M., Iola, Kans. Tool-holder. No. 908,804; Jan. 5; Sp. p. 775; Gaz. vol. 138; p. 122.  
 Rhoads, A. R., West Chester, Pa. Window-screen. No. 934,357; Sept. 14; Sp. p. 2797; Gaz. vol. 146; p. 466.  
 Rhoads, E. S., Kansas City, Mo. Store-front construction. No. 921,163; May 11; Sp. p. 2171; Gaz. vol. 142; p. 382.  
 Rhoads, E. S., Kansas City, Mo. Store-front construction. No. 934,096; Sept. 21; Sp. p. 3472; Gaz. vol. 146; p. 605.  
 Rhoads, J. E., and H. C. Fashbaugh, Canton, Ohio. Automatic prison-signal. No. 934,626; Sept. 21; Sp. p. 3336; Gaz. vol. 146; p. 581.  
 Rhodes, A. G., Santa Maria, Cal. Switch. No. 938,336; Oct. 26; Sp. p. 5739; Gaz. vol. 147; p. 977.  
 Rhodes, B. O., assignor to C. V. Salisbury, Kalamazoo, Mich. Universal joint. No. 923,443; June 1; Sp. p. 748; Gaz. vol. 143; p. 110.  
 Rhodes, E., Scholes, near Leeds, W. Rhodes, Leeds, J. G. Hirst, Kirkstall, near Leeds, S. Parker, Pudsey, near Leeds, and J. M. Tavernor, Leeds, England. Apparatus for displaying advertisements. No. 930,797; Aug. 10; Sp. p. 2406; Gaz. vol. 145; p. 417.  
 Rhodes, E. F., Sweet Springs, Mo. Flood-gate. No. 944,210; Dec. 21; Sp. p. 4660; Gaz. vol. 149; p. 799.  
 Rhodes, G. S., Fremont, Ohio. Adjustable crutch. No. 909,224; Jan. 12; Sp. p. 1628; Gaz. vol. 138; p. 293.  
 Rhodes, H. P., Galveston, Tex. Piston-rod packing. No. 934,627; Sept. 21; Sp. p. 3340; Gaz. vol. 146; p. 581.  
 Rhodes, J. B., Kalamazoo, Mich., assignor to Western Wheeled Scraper Company, Aurora, Ill. Dump-car. No. 918,911; Apr. 20; Sp. p. 4070; Gaz. vol. 141; p. 714.  
 Rhodes, J. B., Kalamazoo, Mich., assignor to Western Wheeled Scraper Company, Aurora, Ill. Dump-car. No. 940,893; Nov. 23; Sp. p. 5423; Gaz. vol. 148; p. 919.  
 Rhodes, J. M., Dallas, Tex. Metallic packing. No. 930,230; Aug. 3; Sp. p. 1250; Gaz. vol. 145; p. 206.  
 Rhodes, O. M. (See Harris, W. F., assignor.)  
 Rhodes, W. (See Rhodes, Hirst, Parker, and Tavernor.)  
 Rhodes, W., Scholes, near Leeds, and R. Maconochie, Birmingham, England. Adjustable shelf. No. 932,325; Aug. 24; Sp. p. 5705; Gaz. vol. 145; p. 973.  
 Rhodes, W. E., Corry, Pa. Adjustable bracket. No. 935,405; Sept. 28; Sp. p. 4884; Gaz. vol. 146; p. 864.  
 Ribbe, P., Halensee, near Berlin, assignor to Fern-Schnell-Schreiber Ges. M. B. H., Berlin, Germany. Polarized relay. No. 918,199; Apr. 13; Sp. p. 2512; Gaz. vol. 141; p. 449.  
 Ribbe, P., Halensee, near Berlin, assignor to Fern-Schnell-Schreiber Gesellschaft mit beschränkter, Haftung, Berlin, Germany. Manufacture of sensitive cells. No. 919,078; Apr. 20; Sp. p. 4385; Gaz. vol. 141; p. 766.  
 Riblet, B. C., Spokane, Wash., assignor to A. Leschen & Sons Rope Company, St. Louis, Mo. Cable conveyer-hoist. No. 913,564; Feb. 23; Sp. p. 5264; Gaz. vol. 139; p. 932.  
 Rice, A. J., and C. S. Adams, Buffalo, N. Y. Bottle case or crate. No. 933,266; Sept. 7; Sp. p. 543; Gaz. vol. 146; p. 83.  
 Rice, C. A., Reliance, S. D. Gathering and dropping device for mowers. No. 933,391; Sept. 7; Sp. p. 810; Gaz. vol. 146; p. 126.  
 Rice, C. B. (See Rice, H. M., assignor.)  
 Rice, C. B., Jr., Piqua, Ohio. Railway-switch mechanism. No. 923,580; June 1; Sp. p. 1051; Gaz. vol. 143; p. 160.  
 Rice, C. D., Hartford, Conn. Friction-relief bearing. No. 912,417; Feb. 16; Sp. p. 2878; Gaz. vol. 139; p. 522.  
 Rice, C. D., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 944,746; Dec. 28; Sp. p. 5871; Gaz. vol. 149; p. 1011.  
 Rice, C. F., Springfield, Mass., assignor to Wason Manufacturing Company. Underframe for railway-cars. No. 929,630; July 27; Sp. p. 6047; Gaz. vol. 144; p. 1058.  
 Rice, E. D. (See Rice and Barrett.)  
 Rice, E. W., Waxahachie, Tex. Pneumatic jet for conveyers. No. 934,628; Sept. 21; Sp. p. 3242; Gaz. vol. 146; p. 582.

*Alphabetical list of patentees—Continued.*

- Rice, F. J. and E. D., and A. G. Barrett, Blackwell, Okla. Friction-transmission gear. No. 914,977; Mar. 9; Sp. p. 2734; Gaz. vol. 140; p. 460.
- Rice, G. L. (See Gilchrist and Rice.)
- Rice, G. W. (See Rice, M. L. and G. W.)
- Rice, G. W., Champaign, Ill. Cotton-chopper. No. 941,093; Nov. 23; Sp. p. 5850; Gaz. vol. 143; p. 987.
- Rice, H. C., assignor of one-half to A. L. Knauer, Denison, Tex. Relay. No. 922,192; May 18; Sp. p. 4308; Gaz. vol. 142; p. 751.
- Rice, H. C., Espy, Pa. Thermostatic circuit-controller. No. 924,499; June 8; Sp. p. 3020; Gaz. vol. 143; p. 493.
- Rice, H. M., assignor of one-half to C. B. Rice, Knoxville, Tenn. Switch-lock. No. 910,583; Jan. 26; Sp. p. 4417; Gaz. vol. 138; p. 808.
- Rice, J. A., Magnolia, Ohio. Railway-tie remover. No. 909,225; Jan. 12; Sp. p. 1629; Gaz. vol. 138; p. 293.
- Rice, J. T., Hot Springs, Ark. Air-ship. No. 914,511; Mar. 9; Sp. p. 1806; Gaz. vol. 140; p. 308.
- Rice, J. V., Jr., Bordentown, N. J., assignor to F. E. Tasker, New York, N. Y. Internal-combustion engine. No. 937,862; Oct. 26; Sp. p. 4720; Gaz. vol. 147; p. 817.
- Rice, L. E., Cleveland, Ohio, assignor to Commercial Manufacturing Company. Bending-machine. No. 909,936; Jan. 19; Sp. p. 3039; Gaz. vol. 138; p. 563.
- Rice, L. E., Cleveland, Ohio, assignor to Commercial Manufacturing Company. Metal-shears. No. 909,937; Jan. 19; Sp. p. 3040; Gaz. vol. 138; p. 563.
- Rice, L. E., Cleveland, Ohio, assignor to Commercial Manufacturing Company. Cutting-machine. No. 909,938; Jan. 19; Sp. p. 3041; Gaz. vol. 138; p. 563.
- Rice, M. E., Los Angeles, Cal. Arch and heel support. No. 941,464; Nov. 30; Sp. p. 6665; Gaz. vol. 143; p. 1130.
- Rice, M. L. (See Perry, Finch, and Rice.)
- Rice, M. L. and G. W., Parklake, Mich. Acetylene-gas generator. No. 908,610; Jan. 5; Sp. p. 378; Gaz. vol. 138; p. 61.
- Rice, N. E., Zenia, Cal. Automatic power sawmill set-works and dog. No. 936,944; Oct. 12; Sp. p. 2780; Gaz. vol. 147; p. 465.
- Rice, N. M. (See Payne and Rice.)
- Rice, R. H. (See Thomson and Rice.)
- Rice, R. H., Milwaukee, Wis. Cushioning device for automobiles and other vehicles. No. 920,999; May 11; Sp. p. 1843; Gaz. vol. 142; p. 327.
- Rice, R. H., Lynn, Mass., assignor to General Electric Company. Governing mechanism for air-compressors. No. 919,953; Apr. 27; Sp. p. 6397; Gaz. vol. 141; p. 1093.
- Rice, R. H., Lynn, Mass., assignor to General Electric Company. Vehicle-wheel. No. 925,027; June 15; Sp. p. 4147; Gaz. vol. 143; p. 705.
- Rice, R. H., Lynn, Mass., assignor to General Electric Company. Turbine-driven apparatus. No. 937,467; Oct. 19; Sp. p. 3921; Gaz. vol. 147; p. 667.
- Rice, S. O., Shedd, Oreg. Cream-cooler for centrifugal separators. No. 931,959; Aug. 24; Sp. p. 4974; Gaz. vol. 145; p. 851.
- Rice, W. E., Rochester, Mich. Barrel-truck. No. 926,288; June 29; Sp. p. 6704; Gaz. vol. 143; p. 1183.
- Rice, W. H., Rochester, N. Y. Agricultural implement. No. 934,934; Sept. 21; Sp. p. 3942; Gaz. vol. 146; p. 684.
- Rice, W. H., assignor of one-half to J. J. Millesen, Mechanicsburg, Pa. Corn-shocking horse. No. 943,462; Dec. 14; Sp. p. 3068; Gaz. vol. 149; p. 516.
- Rice, W. P., Lowell, Ohio. Socket-piece for studding, &c. No. 936,945; Oct. 12; Sp. p. 2786; Gaz. vol. 147; p. 465.
- Rich, C. H. *et al.* (See Henry, W. A., assignor.)
- Rich, C. J., Norwood, Mass. Book-sewing machine. No. 924,274; June 8; Sp. p. 2577; Gaz. vol. 143; p. 420.
- Rich, D. (See Wichmann and Rich.)
- Rich, E. J., assignor to Summit Thread Company, East-Hampton, Conn. Spool-unwinder. No. 909,456; Jan. 12; Sp. p. 2071; Gaz. vol. 138; p. 368.
- Rich, E. M., Glidden, Iowa. Harrow-tooth fastener. No. 942,412; Dec. 7; Sp. p. 793; Gaz. vol. 149; p. 129.
- Rich, G. H., Chicago, Ill. Separating-machine. No. 914,076; Mar. 2; Sp. p. 902; Gaz. vol. 140; p. 141.
- Rich, G. H., Chicago, Ill. Grain-grader. No. 918,912; Apr. 20; Sp. p. 4073; Gaz. vol. 141; p. 714.
- Rich, G. R., Buchanan, Mich., assignor to Celfor Tool Company. Multiple drilling-machine. No. 925,508; June 22; Sp. p. 5055; Gaz. vol. 143; p. 890.
- Rich, L. *et al.* (See Henry, W. A., assignor.)
- Rich, L. L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Molding-machine. No. 944,747; Dec. 28; Sp. p. 5872; Gaz. vol. 149; p. 1012.
- Rich, L. R., Saratoga Springs, assignor to Sanitation and Supply Company, New York, N. Y. Deodorizer-container. No. 917,151; Apr. 6; Sp. p. 397; Gaz. vol. 141; p. 69.
- Rich, S. (See Williams, H., assignor.)
- Rich, S., Alpha, Wash. Animal-trap. No. 929,493; July 27; Sp. p. 5776; Gaz. vol. 144; p. 1013.
- Richard, F., Lafourche Crossing, La. Hay-rake attachment for cultivator-frames. No. 918,474; Apr. 13; Sp. p. 3065; Gaz. vol. 141; p. 538.
- Richard, H. O., Minneapolis, Minn. Letter-holder attachment for mail-sacks. No. 916,018; Mar. 23; Sp. p. 4846; Gaz. vol. 140; p. 857.
- Richard, J., Paris, France. Apparatus for viewing stereoscopic or other pictures. No. 940,479; Nov. 16; Sp. p. 4518; Gaz. vol. 148; p. 756.
- Richard, J. S. (See Price and Richard.)
- Richard, M. (See Scott and Richard.)
- Richard Raupach Maschinenfabrik Goerlitz, G. M. B. H. (See Gielow, C., assignor.)
- Richard, S., and F. Gluck, East Pittsburg, Pa. Advertising device. No. 918,369; Apr. 13; Sp. p. 2849; Gaz. vol. 141; p. 504.
- Richards, C. B., assignor to Cleveland Pneumatic Tool Company, Cleveland, Ohio. Impact-tool. No. 910,860; Jan. 26; Sp. p. 4956; Gaz. vol. 138; p. 895.
- Richards, C. B., assignor, by mesne assignments, to Cleveland Rock Drill Company, Cleveland, Ohio. Drilling-machine. No. 927,679; July 13; Sp. p. 2035; Gaz. vol. 144; p. 354.
- Richards, C. B., assignor, by mesne assignments, to Cleveland Rock Drill Company, Cleveland, Ohio. Fluid-operated tool. No. 929,111; July 27; Sp. p. 4984; Gaz. vol. 144; p. 887.
- Richards, C. B., assignor, by mesne assignments, to Cleveland Rock Drill Company, Cleveland, Ohio. Drilling-machine. No. 932,060; Aug. 24; Sp. p. 5191; Gaz. vol. 145; p. 885.
- Richards, C. E., Boonville, N. Y. Sanding apparatus for locomotives. No. 911,158; Feb. 2; Sp. p. 268; Gaz. vol. 139; p. 47.
- Richards, C. H., assignor to L. Armstrong, Chicago, Ill. Grinding-disk. No. 927,077; July 6; Sp. p. 798; Gaz. vol. 144; p. 127.
- Richards, E. L., Philadelphia, Pa. Jig for drilling and like operations. No. 917,152; Apr. 6; Sp. p. 399; Gaz. vol. 141; p. 69.
- Richards, F. H., Hartford, Conn. Evelet. No. 910,861; Jan. 26; Sp. p. 4961; Gaz. vol. 138; p. 896.
- Richards, F. H., Hartford, Conn. Machine for making types and type-bars. No. 912,169; Feb. 9; Sp. p. 2324; Gaz. vol. 139; p. 403.
- Richards, F. H., Hartford, Conn. Carving-machine. No. 914,676; Mar. 9; Sp. p. 2159; Gaz. vol. 140; p. 362.
- Richards, F. H., Hartford, Conn. Making types and type-bars. No. 919,222; Apr. 20; Sp. p. 4698; Gaz. vol. 141; p. 812.
- Richards, F. H., Hartford, Conn. Making types and type-bars. No. 919,223; Apr. 20; Sp. p. 4705; Gaz. vol. 141; p. 813.
- Richards, F. H., Hartford, Conn. Making types and type-bars. No. 919,224; Apr. 20; Sp. p. 4718; Gaz. vol. 141; p. 813.
- Richards, F. H., Hartford, Conn. Making types and type-bars. No. 919,226; Apr. 20; Sp. p. 4734; Gaz. vol. 141; p. 814.
- Richards, F. H., Hartford, Conn. Carving-machine. No. 919,769; Apr. 27; Sp. p. 6002; Gaz. vol. 141; p. 1032.
- Richards, F. H., Hartford, Conn. Carving-machine. No. 922,513; May 25; Sp. p. 4968; Gaz. vol. 142; p. 884.
- Richards, F. H., Hartford, Conn. Friction-coupling. No. 924,937; June 15; Sp. p. 3946; Gaz. vol. 143; p. 674.
- Richards, F. H., Hartford, Conn. Fastening device. No. 926,768; July 6; Sp. p. 124; Gaz. vol. 144; p. 20.
- Richards, F. H., Hartford, Conn. Fastening device. No. 927,167; July 6; Sp. p. 966; Gaz. vol. 144; p. 157.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Machine for making type and type-bars. No. 911,612; Feb. 9; Sp. p. 1146; Gaz. vol. 139; p. 221.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Typographic machine. No. 911,681; Feb. 9; Sp. p. 1312; Gaz. vol. 139; p. 245.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Key mechanism for typographic machines. No. 913,306; Feb. 23; Sp. p. 4704; Gaz. vol. 139; p. 844.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Key mechanism for typographic machines. No. 913,307; Feb. 23; Sp. p. 4712; Gaz. vol. 139; p. 845.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Typographic machine. No. 916,488; Mar. 30; Sp. p. 5749; Gaz. vol. 140; p. 1038.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Typographic machine. No. 916,782; Mar. 30; Sp. p. 6306; Gaz. vol. 140; p. 1128.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Making types and type-bars. No. 919,215; Apr. 20; Sp. p. 4639; Gaz. vol. 141; p. 810.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Making types and type-bars. No. 919,216; Apr. 20; Sp. p. 4648; Gaz. vol. 141; p. 810.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Making types and type-bars. No. 919,217; Apr. 20; Sp. p. 4654; Gaz. vol. 141; p. 810.



*Alphabetical list of patentees—Continued.*

- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Making types and type-bars. No. 919,219; Apr. 20; Sp. p. 4671; Gaz. vol. 141; p. 811.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Making types and type-bars. No. 919,220; Apr. 20; Sp. p. 4679; Gaz. vol. 141; p. 812.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Typographic machine. No. 919,221; Apr. 20; Sp. p. 4691; Gaz. vol. 141; p. 812.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Feed mechanism for typographic machines. No. 919,225; Apr. 20; Sp. p. 4728; Gaz. vol. 141; p. 813.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Type-bar machine. No. 919,227; Apr. 20; Sp. p. 4742; Gaz. vol. 141; p. 814.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Die and die mechanism. No. 919,228; Apr. 20; Sp. p. 4763; Gaz. vol. 141; p. 814.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Type-bar machine. No. 919,229; Apr. 20; Sp. p. 4769; Gaz. vol. 141; p. 815.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Making types and type-bars. No. 919,230; Apr. 20; Sp. p. 4789; Gaz. vol. 141; p. 815.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Making types and type-bars. No. 919,231; Apr. 20; Sp. p. 4796; Gaz. vol. 141; p. 815.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Making types and type-bars. No. 919,232; Apr. 20; Sp. p. 4804; Gaz. vol. 141; p. 816.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Feed mechanism. No. 919,233; Apr. 20; Sp. p. 4810; Gaz. vol. 141; p. 816.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Feed mechanism. No. 919,234; Apr. 20; Sp. p. 4817; Gaz. vol. 141; p. 816.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Means for imparting a movement to type-bars or type-bar blanks. No. 919,235; Apr. 20; Sp. p. 4825; Gaz. vol. 141; p. 817.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Manufacture of type-bar blanks. No. 919,236; Apr. 20; Sp. p. 4826; Gaz. vol. 141; p. 817.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Making types and type-bars. No. 919,237; Apr. 20; Sp. p. 4828; Gaz. vol. 141; p. 817.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Making type-bars. No. 919,238; Apr. 20; Sp. p. 4833; Gaz. vol. 141; p. 818.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Wrought-metal type-bar. No. 919,239; Apr. 20; Sp. p. 4841; Gaz. vol. 141; p. 818.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Type-bar machine. No. 919,240; Apr. 20; Sp. p. 4846; Gaz. vol. 141; p. 818.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Making types and type-bars. No. 919,241; Apr. 20; Sp. p. 4855; Gaz. vol. 141; p. 819.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Type-bar. No. 919,242; Apr. 20; Sp. p. 4863; Gaz. vol. 141; p. 819.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Die and die-operating mechanism. No. 919,243; Apr. 20; Sp. p. 4867; Gaz. vol. 141; p. 819.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Mechanical movement. No. 920,651; May 4; Sp. p. 1121; Gaz. vol. 142; p. 183.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Bar-lengthening machine. No. 922,512; May 25; Sp. p. 4960; Gaz. vol. 142; p. 884.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Justified type-bar. No. 922,632; May 25; Sp. p. 5222; Gaz. vol. 142; p. 924.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Making ribbed plates. No. 925,028; June 15; Sp. p. 4149; Gaz. vol. 143; p. 706.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Mechanical movement. No. 925,383; June 15; Sp. p. 4799; Gaz. vol. 143; p. 820.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Mechanism for making typographic forms. No. 927,597; July 13; Sp. p. 1846; Gaz. vol. 144; p. 327.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Typographic form. No. 927,598; July 13; Sp. p. 1852; Gaz. vol. 144; p. 327.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Machine for making types and type-bars. No. 940,277; Nov. 16; Sp. p. 4051; Gaz. vol. 148; p. 688.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Manufacture of type-bars. No. 940,404; Nov. 16; Sp. p. 4372; Gaz. vol. 148; p. 731.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, to American Typographic Corporation. Type-bar and typographic form. No. 942,102; Dec. 7; Sp. p. 149; Gaz. vol. 149; p. 23.
- Richards, F. H., Hartford, Conn., assignor, by mesne assignments, of one-half to American Typographic Corporation. Fluid-controlled mechanism. No. 919,465; Apr. 27; Sp. p. 5386; Gaz. vol. 141; p. 930.
- Richards, F. H., Hartford, Conn., assignor to S. M. Gardenhire, Brooklyn, N. Y. Machine for making types and type-bars. No. 919,218; Apr. 20; Sp. p. 4661; Gaz. vol. 141; p. 811.
- Richards, F. H., Hartford, assignor to F. B. Manville, Waterville, Conn. Picture-exhibiting machine. No. 938,895; Nov. 2; Sp. p. 969; Gaz. vol. 148; p. 153.
- Richards, F. H., Hartford, Conn., and W. D. Zehnder, Scranton, Pa. Rail-joint. No. 909,118; Jan. 5; Sp. p. 1416; Gaz. vol. 138; p. 226.
- Richards, H. S., *et al.* (See Kyle, J. D., assignor.)
- Richards, H. W., Stuart, Fla. Hoe. No. 936,038; Oct. 5; Sp. p. 924; Gaz. vol. 147; p. 139.
- Richards, H. W., Oak Park, Ill. Grain-car door. No. 941,099; Nov. 23; Sp. p. 5852; Gaz. vol. 148; p. 987.
- Richards, J. (See Barrett, T., assignor.)
- Richards, J., and H. Ahnfeldt, Butte, Mont. Bottle-closure. No. 941,651; Nov. 30; Sp. p. 7051; Gaz. vol. 148; p. 1191.
- Richards, J. E., Melrose, Mass. Pipe-wrench. No. 937,959; Oct. 26; Sp. p. 4914; Gaz. vol. 147; p. 849.
- Richards, J. E., Dayton, Ohio, assignor to Dayton Clothing Manufacturing Company. Union suit. (Reissue.) No. 13,046; Nov. 23; Sp. p. 6408; Gaz. vol. 148; p. 1071.
- Richards, J. M. (See Gorton and Richards.)
- Richards, J. M., *et al.* (See Watts, A., assignor.)
- Richards, J. T., Philadelphia, Pa. Bearing for railroad-rails. No. 916,489; Mar. 30; Sp. p. 5760; Gaz. vol. 140; p. 1038.
- Richards, J. T., Chicago, Ill. Bar-bender. No. 940,360; Nov. 16; Sp. p. 4246; Gaz. vol. 148; p. 716.
- Richards, J. W., Muscatine, Iowa. Awning-frame. No. 909,119; Jan. 5; Sp. p. 1421; Gaz. vol. 138; p. 226.
- Richards, R., H. P. Marley, V. Kovács, and A. Reves, New Castle, Pa. Sheet-metal packer. No. 935,549; Sept. 28; Sp. p. 5195; Gaz. vol. 146; p. 911.
- Richards, R. H., Boston, Mass. Apparatus for classifying minerals. No. 943,101; Dec. 14; Sp. p. 2322; Gaz. vol. 149; p. 394.
- Richards, T. M., Alton, Ill. Bottle-finishing machine. No. 916,598; Mar. 30; Sp. p. 5984; Gaz. vol. 140; p. 1074.
- Richards, T. W. (See Woolf and Richards.)
- Richards, W. F., Buffalo, N. Y. Controlling means for motor-vehicles. No. 912,489; Feb. 16; Sp. p. 3019; Gaz. vol. 139; p. 546.
- Richards, W. F., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Safety device for connecting wheels and shafts. No. 912,488; Feb. 16; Sp. p. 3018; Gaz. vol. 139; p. 545.
- Richards, W. F., Depew, assignor to Gould Coupler Company, New York, N. Y. Railway-car truck. No. 919,770; Apr. 27; Sp. p. 6007; Gaz. vol. 141; p. 1032.
- Richards, W. F., Lancaster, assignor to Gould Coupler Company, New York, N. Y. Railway-car truck. No. 943,707; Dec. 21; Sp. p. 3619; Gaz. vol. 149; p. 630.
- Richards, W. J., assignor to National Brake & Electric Company, Milwaukee, Wis. Automatic controlling mechanism for fluid-pressure systems. No. 917,897; Apr. 13; Sp. p. 1882; Gaz. vol. 141; p. 343.
- Richards, W. J., assignor to National Brake & Electric Company, Milwaukee, Wis. Convertible system of pressure or vacuum control. No. 930,989; Aug. 10; Sp. p. 2836; Gaz. vol. 145; p. 479.
- Richards, W. J., Norwood, Ohio, assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 933,267; Sept. 7; Sp. p. 545; Gaz. vol. 146; p. 84.
- Richards, W. L., Wilkes-Barre, Pa. Siphon-pump. No. 919,079; Apr. 20; Sp. p. 4390; Gaz. vol. 141; p. 767.

*Alphabetical list of patentees—Continued.*

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- Richardson, A. L., Melrose, N. Mex. Ter. Camera. No. 932,326; Aug. 24; Sp. p. 5707; Gaz. vol. 145; p. 974.
- Richardson, B. F., Philadelphia, Pa., assignor to Filbert Paving and Construction Company, Wilmington, Del. Composition roadway. No. 911,445; Feb. 2; Sp. p. 803; Gaz. vol. 133; p. 140.
- Richardson, C., New York, N. Y., assignor to Barber Asphalt Paving Company, Philadelphia, Pa. Manufacture of bituminous roadways. No. 923,891; June 8; Sp. p. 1768; Gaz. vol. 143; p. 295.
- Richardson, C. C., Lansing, Mich. Boat-paddle. No. 936,165; Oct. 5; Sp. p. 1184; Gaz. vol. 147; p. 180.
- Richardson, C. E., Washington, D. C. Binder. No. 916,369; Mar. 23; Sp. p. 5482; Gaz. vol. 140; p. 973.
- Richardson, C. F., *et al.* (See Anderson, T. W., assignor.)
- Richardson, C. H., assignor of one-half to D. B. Smith, B. A. Smith, T. J. Carroll, C. H. Gamage, and T. S. Gorton, Gloucester, Mass. Wind-lass. No. 928,330; July 20; Sp. p. 3423; Gaz. vol. 144; p. 602.
- Richardson, C. N. (See Fifer, G. F., assignor.)
- Richardson, D. S., New York, N. Y. Hot-air heating-furnace. No. 909,672; Jan. 12; Sp. p. 2495; Gaz. vol. 138; p. 443.
- Richardson, E. H., Ontario, Cal., assignor to Pacific Electric Heating Company. Thermic controller. No. 937,332; Oct. 19; Sp. p. 3597; Gaz. vol. 147; p. 621.
- Richardson, E. H., Ontario, F. Booth, Albambra, and W. Meredith, San Francisco, assignors to Pacific Electric Heating Company, Ontario, Cal. Controlling means for electric heaters. No. 928,402; July 20; Sp. p. 3546; Gaz. vol. 144; p. 627.
- Richardson, E. J. (See Marino, Q., assignor.)
- Richardson, F., Carthage, Mo. Cover. No. 914,185; Mar. 2; Sp. p. 1147; Gaz. vol. 140; p. 179.
- Richardson, F., Croydon, England. Sanitary trap. No. 921,460; May 11; Sp. p. 2810; Gaz. vol. 142; p. 483.
- Richardson, F. B., Sildell, La. Shaft-coupling. No. 939,744; Nov. 9; Sp. p. 2861; Gaz. vol. 148; p. 472.
- Richardson, F. E., Cazenovia, N. Y. Index reference-file. No. 915,887; Mar. 23; Sp. p. 4591; Gaz. vol. 140; p. 815.
- Richardson, M., Carterville, Ill. Fork-return mechanism. No. 915,888; Mar. 23; Sp. p. 4594; Gaz. vol. 140; p. 815.
- Richardson, H., New York, N. Y. Feed-gate for weighing-machines. No. 935,689; Oct. 5; Sp. p. 140; Gaz. vol. 147; p. 23.
- Richardson, H. W., Winchester, assignor to Austin-Walker Company, Boston, Mass. Hose-supporter. No. 909,824; Jan. 12; Sp. p. 2797; Gaz. vol. 138; p. 492.
- Richardson, J. (See Dillon and Richardson.)
- Richardson, J., Buffalo, N. Y. Tire-protector. No. 943,463; Dec. 14; Sp. p. 3070; Gaz. vol. 149; p. 516.
- Richardson, J., and J. F. Neef, Philadelphia, Pa. Dyeing-machine. No. 927,599; July 13; Sp. p. 1854; Gaz. vol. 144; p. 327.
- Richardson, J. F., Montreal, Quebec, Canada. Telegraphy. No. 938,337; Oct. 26; Sp. p. 5742; Gaz. vol. 147; p. 977.
- Richardson, L. D., Providence, R. I. Tape-grip. No. 925,384; June 15; Sp. p. 4803; Gaz. vol. 143; p. 820.
- Richardson Manufacturing Company. (See Brown, T., assignor.)
- Richardson, S., Hoover, Ind. Road grader or scraper. No. 916,199; Mar. 23; Sp. p. 5172; Gaz. vol. 140; p. 916.
- Richardson, S., Hoover, Ind. Road grader and scraper. No. 942,749; Dec. 7; Sp. p. 1482; Gaz. vol. 149; p. 243.
- Richardson, T., New Orleans, La. Strainer. No. 938,274; Oct. 26; Sp. p. 5591; Gaz. vol. 147; p. 956.
- Richardson, T., Ridgway, Pa. Veneering-machine. No. 938,896; Nov. 2; Sp. p. 976; Gaz. vol. 148; p. 154.
- Richardson, T. D., Philadelphia, Pa. Package. No. 924,275; June 8; Sp. p. 2580; Gaz. vol. 143; p. 420.
- Richardson, W. H., Brunswick, Ga. Packing-ring expander. No. 912,031; Feb. 9; Sp. p. 2061; Gaz. vol. 139; p. 359.
- Richardson, W. K., Leavenworth, Kans. Compressing air. No. 916,019; Mar. 23; Sp. p. 4847; Gaz. vol. 140; p. 858.
- Richardson, W. K., Leavenworth, Kans. Centrifugal pump. No. 916,370; Mar. 23; Sp. p. 5482; Gaz. vol. 140; p. 973.
- Richendrier, H. J., Lime Ridge, Pa. Railway-crossing gate. No. 943,566; Dec. 14; Sp. p. 3279; Gaz. vol. 149; p. 553.
- Richert, P., Berlin, Germany. Resetting mechanism for indicating apparatus. No. 916,371; Mar. 23; Sp. p. 5484; Gaz. vol. 140; p. 973.
- Richey, M., Shreve, and S. J. Crites, Jeromeville, Ohio. Sliding-door hanger and hood. No. 923,706; June 1; Sp. p. 1316; Gaz. vol. 143; p. 203.
- Richey, R., *et al.* (See Gill, C. H., assignor.)
- Richman, C. S., Chicago, Ill. Liquid-dispensing apparatus. No. 932,497; Aug. 31; Sp. p. 6069; Gaz. vol. 145; p. 1052.
- Richmond, A. J., Boston, Mass., assignor to General Fire Extinguisher Company, New York, N. Y. Indicator for gate-valves. No. 933,786; Sept. 14; Sp. p. 1679; Gaz. vol. 146; p. 278.
- Richmond Brothers Company. (See Wooster, C., assignor.)
- Richmond Casket Company. (See Holcomb, C. C., assignor.)
- Richmond Cedar Works. (See Reams, J. W., assignor.)
- Richmond, E. C., Tacoma, Wash. Souvenir. No. 926,440; June 29; Sp. p. 7003; Gaz. vol. 143; p. 1233.
- Richmond, G. E., Houston, Tex. Crate. No. 938,705; Nov. 2; Sp. p. 560; Gaz. vol. 148; p. 88.
- Richmond, G. E., Houston, Tex. Automatic dumping-elevator. No. 940,065; Nov. 16; Sp. p. 3587; Gaz. vol. 148; p. 613.
- Richmond, G. E., Houston, Tex. Automatic counting apparatus. No. 940,066; Nov. 16; Sp. p. 3590; Gaz. vol. 148; p. 613.
- Richmond, H. E., Westwood, N. J. Knockdown stereoscope. No. 910,087; Jan. 19; Sp. p. 3331; Gaz. vol. 138; p. 613.
- Richmond, J. O., Springfield, Oreg. Combined harrow and weeder. No. 938,398; Oct. 26; Sp. p. 5887; Gaz. vol. 147; p. 999.
- Richmond, W. H., Jet, Okla. Egg-tongs. No. 909,939; Jan. 19; Sp. p. 3042; Gaz. vol. 138; p. 563.
- Richter, J., assignor of one-half to A. Lang, Milwaukee, Wis. Revolving tray. No. 924,938; June 15; Sp. p. 3949; Gaz. vol. 143; p. 675.
- Richter, J. L., San Antonio, Tex. Rafter-marking instrument. No. 940,067; Nov. 16; Sp. p. 3591; Gaz. vol. 148; p. 614.
- Richter, O., Munich, assignor to Melms & Pfenninger, Gesellschaft mit beschränkter Haftung, Munich-Hirschau, Germany. Fluid-pressure turbine. No. 909,226; Jan. 12; Sp. p. 1631; Gaz. vol. 138; p. 293.
- Richter, O. F., assignor of one-half to L. M. Stark, Indianapolis, Ind. Automatic car-coupling. No. 942,218; Dec. 7; Sp. p. 408; Gaz. vol. 149; p. 63.
- Richter, S., Martin, Pa. Coke-drag. No. 941,385; Nov. 30; Sp. p. 6491; Gaz. vol. 148; p. 1104.
- Richter, W. E., Albuquerque, N. Mex. Ter. Electric time-switch. No. 913,052; Feb. 23; Sp. p. 4193; Gaz. vol. 139; p. 759.
- Rick, J. C., Carnegie, Pa. Lead-pipe coupling. No. 933,584; Sept. 7; Sp. p. 1268; Gaz. vol. 146; p. 187.
- Rickards, J. B., Philadelphia, Pa. Dredging-bucket. No. 938,338; Oct. 26; Sp. p. 5744; Gaz. vol. 147; p. 978.
- Rickards, J. N., Ridgely, Md. Lubricator for axles. No. 936,740; Oct. 12; Sp. p. 2393; Gaz. vol. 147; p. 398.
- Ricke, G. H., assignor of fifty-one one-hundredths to A. Morsbach, Cincinnati, Ohio. Lamp refractor and shade. No. 916,372; Mar. 23; Sp. p. 5486; Gaz. vol. 140; p. 974.
- Ricker, P. E., Alexandria, Ind. Dumping-wagon bed. No. 916,020; Mar. 23; Sp. p. 4850; Gaz. vol. 140; p. 858.
- Ricker, R. C., assignor of one-third to H. A. Harger, Canal Dover, Ohio. Soil-pipe flashing. No. 925,946; June 22; Sp. p. 5989; Gaz. vol. 143; p. 1034.
- Rickert, A. A., assignor of two-thirds to Z. T. Brindley and C. E. Royer, Erie, Pa. Powder-measuring device. No. 910,955; Jan. 26; Sp. p. 5142; Gaz. vol. 138; p. 926.
- Rickert, E. P., Cleveland, Ohio. Overshoe. No. 921,461; May 11; Sp. p. 2811; Gaz. vol. 142; p. 483.
- Ricketts, A., Indianapolis, Ind. Jam-dolly. No. 922,514; May 25; Sp. p. 4973; Gaz. vol. 142; p. 885.
- Ricketts, F. E. (See Keilholtz and Ricketts.)
- Ricketts, F. E., Baltimore, Md. Testing apparatus. No. 920,652; May 4; Sp. p. 1128; Gaz. vol. 142; p. 183.
- Ricketts, J. B., Baltimore, Md. Back-pressure reducer. No. 919,080; Apr. 20; Sp. p. 4391; Gaz. vol. 141; p. 767.
- Ricketts, R. B., assignor to Springfield Seed Company, Springfield, Mo. Dispensing-receptacle. No. 916,783; Mar. 30; Sp. p. 6316; Gaz. vol. 140; p. 1129.
- Rickey, W. E., Rocky, Okla. Envelop. No. 926,607; June 29; Sp. p. 7304; Gaz. vol. 143; p. 1288.
- Rickey, W. E., Rocky, Okla. Alfalfa drier and mill. No. 940,193; Nov. 16; Sp. p. 3879; Gaz. vol. 148; p. 658.
- Rickman, M. E., Lebo, assignor of one-half to E. Sponseller, Emporia, Kans. Stirring apparatus for kettles. No. 915,310; Mar. 16; Sp. p. 3413; Gaz. vol. 140; p. 596.
- Rickmire, A. P., Waterloo, Iowa. Gas apparatus. No. 942,929; Dec. 14; Sp. p. 1920; Gaz. vol. 149; p. 334.
- Ricks, J. W., Gloversville, N. Y. Attachment for crutches. No. 909,129; Jan. 5; Sp. p. 1438; Gaz. vol. 138; p. 230.
- Ricksecker, A. C., Chicago, Ill. Valve. No. 927,753; July 13; Sp. p. 2184; Gaz. vol. 144; p. 378.
- Ridd, A., Newport, Ky. Finishing metallic surfaces. No. 937,180; Oct. 19; Sp. p. 3288; Gaz. vol. 147; p. 573.
- Riddell, J. (See Morrison, Riddell, and Morrison.)
- Riddell, J., Schenectady, N. Y., assignor to General Electric Company. Milling-machine. No. 910,315; Jan. 19; Sp. p. 3848; Gaz. vol. 138; p. 604.
- Riddell, J., Schenectady, N. Y., assignor to General Electric Company. Bucket-filing machine. No. 924,831; June 15; Sp. p. 3732; Gaz. vol. 143; p. 639.
- Riddell, J., and J. J. Madden, Sharon, Pa.; said Madden assignor of one-half his right to said Riddell. Service-box for conduits. No. 914,186; Mar. 2; Sp. p. 1148; Gaz. vol. 140; p. 179.
- Riddle, F. L., Los Angeles, Cal. Infant's portable high-chair seat. No. 923,078; May 25; Sp. p. 6152; Gaz. vol. 142; p. 1067.
- Riddle, G. T., St. Louis, Mo. Packing-box. No. 915,113; May 16; Sp. p. 3019; Gaz. vol. 140; p. 533.
- Riddle, G. W., Breckenridge, Mo. Tool-grinding apparatus. No. 935,406; Sept. 28; Sp. p. 4884; Gaz. vol. 146; p. 864.



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- Riddle, L. H., Council Bluffs, Iowa. Wire receptacle. No. 926,896; July 6; Sp. p. 395; Gaz. vol. 144; p. 64.
- Ridenour, W. E., Philadelphia, Pa. Manufacture of hydrated sodium carbonate. No. 912,622; Feb. 16; Sp. p. 3314; Gaz. vol. 139; p. 594.
- Rideout, W. L. (See Meter and Rideout.)
- Rider, C., *et al.* (See Maitland, J. L., assignor.)
- Rider, C. B., Ocean City, assignor of one-half to S. H. Hann, Camden, N. J. Vacuum massaging-machine. No. 929,112; July 27; Sp. p. 4988; Gaz. vol. 144; p. 887.
- Rider, C. B., Ocean City, assignor of one-half to S. H. Hann, Camden, N. J. Vacuum massaging-machine. No. 929,113; July 27; Sp. p. 4990; Gaz. vol. 144; p. 888.
- Rider, F. A., Pittsburg, Pa. Refrigerating apparatus. No. 920,392; May 4; Sp. p. 619; Gaz. vol. 142; p. 98.
- Rider, F. A., Pittsburg, Pa. Compressor. No. 921,890; May 18; Sp. p. 3699; Gaz. vol. 142; p. 652.
- Rider, F. A., Pittsburg, Pa. Apparatus for making clear ice in cans. No. 935,928; Oct. 5; Sp. p. 702; Gaz. vol. 147; p. 103.
- Rider, G. E., Kansas City, Mo. Lifting-jack. No. 910,231; Jan. 19; Sp. p. 3645; Gaz. vol. 138; p. 662.
- Rider, G. E., Kansas City, Mo. Baling-press. No. 915,626; Mar. 16; Sp. p. 4063; Gaz. vol. 140; p. 702.
- Rider, G. P., Chicago, Ill. Wire fencing. No. 925,229; June 15; Sp. p. 4532; Gaz. vol. 143; p. 774.
- Rider, J. G., Rockford, Ill. Fountain-pen clip. No. 919,244; Apr. 20; Sp. p. 4882; Gaz. vol. 141; p. 820.
- Rider, J. T., Oil City, Pa. Stovepipe. No. 912,490; Feb. 16; Sp. p. 3022; Gaz. vol. 139; p. 546.
- Rider, S. S., Brookland, D. C. Clothes-line reel. No. 939,862; Nov. 9; Sp. p. 3102; Gaz. vol. 148; p. 512.
- Rider, W. J., Wimbledon, England. Advertising apparatus. No. 943,893; Dec. 21; Sp. p. 3998; Gaz. vol. 149; p. 693.
- Ridgeley, M. T. (See Stevens, M. H., assignor.)
- Ridgely, C. T., Springfield, Ohio. Paper-trimmer. No. 909,227; Jan. 12; Sp. p. 1633; Gaz. vol. 138; p. 294.
- Ridgely, C. T., Springfield, Ohio. Graining device. No. 930,690; Aug. 10; Sp. p. 2186; Gaz. vol. 145; p. 352.
- Ridgely, C. T., Springfield, Ohio. Graining device. No. 944,821; Dec. 28; Sp. p. 6025; Gaz. vol. 149; p. 1036.
- Ridgely, C. T., assignor to Standard Trimmer Company, Springfield, Ohio. Cutting-tool. No. 908,499; Jan. 5; Sp. p. 135; Gaz. vol. 138; p. 24.
- Ridgely Trimmer Company. (See Breckenridge, J. G., assignor.)
- Ridgely Trimmer Company. (See Burcky, M. M., assignor.)
- Ridgway Dynamo & Engine Company. (See Hall, T., assignor.)
- Ridgway, E. L., Kansas City, Mo. Washboiler. No. 919,382; Apr. 27; Sp. p. 5196; Gaz. vol. 141; p. 901.
- Ridgway, E. L., Frost, Tex. Spark-arrester. No. 939,444; Nov. 9; Sp. p. 2218; Gaz. vol. 148; p. 369.
- Ridgway, H. N., Winthrop, Mass. Centrifugal amusement apparatus. No. 910,417; Jan. 19; Sp. p. 4061; Gaz. vol. 138; p. 727.
- Ridgway, H. N., Winthrop, Mass. Amusement apparatus. No. 932,904; Aug. 31; Sp. p. 6907; Gaz. vol. 145; p. 1187.
- Ridgway, H. N., Winthrop, Mass. Centrifugal amusement device. No. 933,585; Sept. 7; Sp. p. 1269; Gaz. vol. 146; p. 188.
- Ridgway, J. J., *et al.* (See Vrooman, E. E., assignor.)
- Ridgway, W. H., Coatesville, Pa. Overflow device for pressure-tanks, &c. No. 914,978; Mar. 9; Sp. p. 2736; Gaz. vol. 140; p. 401.
- Ridings, W. R., Stretford, England, assignor to Westinghouse Electric and Manufacturing Company. Electric-arc lamp. No. 913,308; Feb. 23; Sp. p. 4717; Gaz. vol. 139; p. 845.
- Ridley, R. W., and A. R. Clark, Dallas, Tex. Kitchen-cabinet. No. 911,159; Feb. 2; Sp. p. 269; Gaz. vol. 139; p. 47.
- Ridpath, C. W., Pierce City, Mo. Box-cover fastener. No. 920,494; May 4; Sp. p. 804; Gaz. vol. 142; p. 130.
- Riebe, G. W., Itasca, Wis. Pallet-setting implement. No. 940,278; Nov. 16; Sp. p. 4061; Gaz. vol. 148; p. 688.
- Riebelman, G. H. (See Perpignan and Riebelman.)
- Rieck, W., Kankakee, Ill. Toilet-basin. No. 931,489; Aug. 17; Sp. p. 3934; Gaz. vol. 145; p. 679.
- Riecke, E., Berlin, Germany, assignor to General Electric Company. System of transmission. No. 925,385; June 15; Sp. p. 4804; Gaz. vol. 143; p. 821.
- Riecke, P., Dessau, Germany. Means for operating the doors of retort-furnaces, coke-ovens, and the like from a distance. No. 925,651; June 22; Sp. p. 5352; Gaz. vol. 143; p. 937.
- Rieder, R. (See Wiegand, W., assignor.)
- Riedy, J. F., Hamburg, Iowa. Display-rack. No. 909,336; Jan. 12; Sp. p. 1842; Gaz. vol. 138; p. 330.
- Riegel, R., Hawthorne, N. Y. Non-refillable bottle. No. 938,706; Nov. 2; Sp. p. 561; Gaz. vol. 148; p. 88.
- Rieger, A. R., Chicago, Ill. Removable brake and guard for roller-skates. No. 914,458; Mar. 9; Sp. p. 1699; Gaz. vol. 140; p. 291.
- Riegger, F. E., Newark, Ohio. Type-writer attachment. No. 930,885; Aug. 10; Sp. p. 2612; Gaz. vol. 145; p. 447.
- Riegler, L. J., Ben Avon, Pa. Railroad-tie. No. 912,731; Feb. 16; Sp. p. 3573; Gaz. vol. 139; p. 631.
- Riehl, F. W., Cleveland, Ohio. Brush. No. 938,275; Oct. 26; Sp. p. 5593; Gaz. vol. 147; p. 956.
- Riehl, H. E., New York, N. Y. Aquatic merry-go-round. No. 925,840; June 22; Sp. p. 5779; Gaz. vol. 143; p. 1000.
- Riehl, J. B., Philadelphia, Pa., assignor to American Specialty Manufacturing Company, Dover, Del. Notch or runner-head for umbrellas and parasols. No. 919,954; Apr. 27; Sp. p. 6401; Gaz. vol. 141; p. 1093.
- Riehl, J. B., Philadelphia, Pa., assignor to American Specialty Manufacturing Company, Dover, Del. Securing notches to sticks of umbrellas and parasols. No. 941,952; Nov. 30; Sp. p. 7687; Gaz. vol. 148; p. 1295.
- Riehl, J. B., assignor to American Specialty Manufacturing Company, Philadelphia, Pa. Machine for securing notches to umbrella-sticks. No. 936,166; Oct. 5; Sp. p. 1184; Gaz. vol. 147; p. 180.
- Riehle, J. F., *et al.* (See Turner, H. P., assignor.)
- Rielly, J. E., Newark, N. J. Spring-wheel. No. 923,707; June 1; Sp. p. 1316; Gaz. vol. 143; p. 203.
- Rielly, J. E., Newark, N. J. Spring-wheel. No. 926,769; July 6; Sp. p. 127; Gaz. vol. 144; p. 21.
- Rieman, C. A., Connorsville, Ind. Flower-supporter. No. 933,112; Sept. 7; Sp. p. 158; Gaz. vol. 146; p. 26.
- Ries, H., Munich, Germany. Furnace for gasifying coal. No. 922,042; May 18; Sp. p. 4017; Gaz. vol. 142; p. 702.
- Ries, H., Munich, Germany. Gas-retort furnace. No. 926,135; June 29; Sp. p. 6380; Gaz. vol. 143; p. 1132.
- Rieseck, P., Pittsburg, Pa. Fire-escape. No. 937,552; Oct. 19; Sp. p. 4096; Gaz. vol. 147; p. 696.
- Riesenweber, C. F., St. Louis, Mo. Tool. No. 938,339; Oct. 26; Sp. p. 5746; Gaz. vol. 147; p. 978.
- Rieske, O. G., St. Louis Park, Minn. Device for straightening metal disks. No. 921,739; May 18; Sp. p. 3384; Gaz. vol. 142; p. 603.
- Riesland, D. W., Duluth, Minn. Anatomical developing and adjusting machine. No. 935,272; Sept. 28; Sp. p. 4619; Gaz. vol. 146; p. 821.
- Riess, H., Reinickendorf-West, near Berlin, Germany. Gas and oxygen burner. No. 918,089; Apr. 13; Sp. p. 2299; Gaz. vol. 141; p. 412.
- Riester & Thesmacher Company. (See Essig, O. A., assignor.)
- Rietveld, J. D. (See Dieleman and Rietveld.)
- Rietveld, W. D. (See Dieleman and Rietveld.)
- Rietzel, A. F., assignor to Thomson Electric Welding Company, Lynn, Mass. Uniting the component parts of composite sheet-metal structures. No. 928,701; July 20; Sp. p. 4152; Gaz. vol. 144; p. 724.
- Riffe, E., *et al.* (See Hudson, D. J., assignor.)
- Rigby, J. H., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-leveling machine. No. 916,021; Mar. 23; Sp. p. 4852; Gaz. vol. 140; p. 858.
- Rigby, J. H., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-leveling machine. No. 925,509; June 22; Sp. p. 5059; Gaz. vol. 143; p. 891.
- Rigby, T. (See Crossley and Rigby.)
- Rigby, W. B., *et al.* (See Judd, W., assignor.)
- Rigden, F. E., Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Golf-club. No. 942,353; Dec. 7; Sp. p. 682; Gaz. vol. 149; p. 110.
- Rigg, C. B., assignor of one-half to W. B. Rigg, Mount Sterling, Ill. Can-opener. No. 935,820; Oct. 5; Sp. p. 475; Gaz. vol. 147; p. 68.
- Rigg, J. (See Jones and Rigg.)
- Rige, W. B. (See Rigg, C. B., assignor.)
- Riggins, L., Evona, Ky. Wire-stretcher. No. 914,604; Mar. 9; Sp. p. 1995; Gaz. vol. 140; p. 340.
- Riggle, T. M., and W. M. Baker, Tucson, Ariz. Ter. Pneumatic mail-handling apparatus. No. 926,078; June 22; Sp. p. 6259; Gaz. vol. 143; p. 1078.
- Riggs, A. P., Seattle, Wash. Hair-tonic. No. 923,999; June 8; Sp. p. 1983; Gaz. vol. 143; p. 329.
- Riggs, A. W., assignor of forty one-hundredths to J. O. Fudge, C. R. Hunt, and C. L. Campbell, Atlantic, Iowa. Mail-carrier. No. 912,979; Feb. 16; Sp. p. 4038; Gaz. vol. 139; p. 708.
- Riggs, G. P., St. Marys, W. Va. Hunting-knife. No. 939,091; Nov. 2; Sp. p. 1361; Gaz. vol. 148; p. 221.
- Riggs, G. S., Mable, Oreg. Electric trap. No. 913,053; Feb. 23; Sp. p. 4197; Gaz. vol. 139; p. 759.
- Rightmire, F., Paterson, N. J. Device for treating cutaneous diseases. No. 943,894; Dec. 21; Sp. p. 4000; Gaz. vol. 149; p. 694.
- Rigling, W., Hamilton, Ohio. Egg-tester. No. 940,361; Nov. 16; Sp. p. 4248; Gaz. vol. 148; p. 716.
- Rigney, G. W., and S. J. Hanlin, Pittsburg, Pa. Brake-handle. No. 934,935; Sept. 21; Sp. p. 3944; Gaz. vol. 146; p. 684.
- Rigney, W. J., assignor to McLoughlin Brothers, Brooklyn, N. Y. Apparatus for games. No. 942,103; Dec. 7; Sp. p. 151; Gaz. vol. 145; p. 24.
- Rignon, J. A., Berlin, Germany. Air-ship. No. 932,999; Aug. 31; Sp. p. 7082; Gaz. vol. 145; p. 1218.

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- Rike Folding Box Co. (See Rike and Klin, assignors.)
- Riley & Co., W. B. (See Lee, W. T., assignor.)
- Riley, D., Jr., Pittsfield, Ill. Gate. No. 930,418; Aug. 10; Sp. p. 1600; Gaz. vol. 145; p. 290.
- Riley, F. G., London, England. Apparatus for bottling liquids. No. 932,415; Aug. 24; Sp. p. 5869; Gaz. vol. 145; p. 1002.
- Riley, G. L., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Shell-loading machine. No. 930,231; Aug. 3; Sp. p. 1257; Gaz. vol. 145; p. 206.
- Riley, J. (See Hunt and Riley.)
- Riley, J. B., Austin, Tex. Blind-slat fastener. No. 942,930; Dec. 14; Sp. p. 1923; Gaz. vol. 149; p. 335.
- Riley, J. P. (See Gately, J. H., assignor.)
- Riley, L. A., 2d. (See Beard, R. S., assignor.)
- Riley, M. M., Ironwood, Mich. Metallic railway-tie. No. 917,797; Apr. 13; Sp. p. 1675; Gaz. vol. 141; p. 310.
- Riley, P. J., Hallsville, W. Va. Conveyor for mines. No. 942,750; Dec. 7; Sp. p. 1484; Gaz. vol. 149; p. 243.
- Riley, R. S., Providence, R. I., assignor to Williamson Bros. Company, Philadelphia, Pa. Steering-gear. No. 939,323; Nov. 9; Sp. p. 1926; Gaz. vol. 148; p. 329.
- Riley, S. A. D., Covina, assignor of one-fourth to W. E. Lloyd, Los Angeles, Cal. Swather for mowing-machines. No. 930,617; Aug. 10; Sp. p. 2047; Gaz. vol. 145; p. 359.
- Riley, T. A., Central Falls, and P. F. Hughes, Pawtucket, R. I. Fly-leafing machine. No. 917,966; Apr. 13; Sp. p. 2025; Gaz. vol. 141; p. 363.
- Riley, T. E., Troy, N. Y. Embalming instrument. No. 943,464; Dec. 14; Sp. p. 3072; Gaz. vol. 149; p. 517.
- Riley, W. E., Saratoga Springs, N. Y. Rake attachment. No. 922,515; May 25; Sp. p. 4974; Gaz. vol. 142; p. 885.
- Riley, W. J., East Boston, Mass. Sporting-shoe. No. 931,343; Aug. 17; Sp. p. 3649; Gaz. vol. 145; p. 630.
- Riling, E. T., *et al.* (See Harvel, S. T., assignor.)
- Rimmel, C. B., assignor of one-half to P. J. Scheib, Carnegie, Pa. Miner's lamp. No. 920,882; May 4; Sp. p. 1616; Gaz. vol. 142; p. 258.
- Rimmel, C. B., assignor of one-half to W. W. Hack, Carnegie, Pa. Curtain-pole. No. 925,386; June 15; Sp. p. 4806; Gaz. vol. 143; p. 821.
- Rinaldo, J. (See Plunkett, C. F., assignor.)
- Rinaman, C. (See Morris and Rinaman.)
- Rinehart, G. B., Ashland, Wis. Battery-brush. No. 909,673; Jan. 12; Sp. p. 2497; Gaz. vol. 138; p. 443.
- Ring, D. S., Waltham, Mass. Shaving-brush. No. 929,494; July 27; Sp. p. 5776; Gaz. vol. 144; p. 1013.
- Ring, J., St. Louis, Mo. Apparatus for purifying the air in subways. No. 922,953; May 25; Sp. p. 5900; Gaz. vol. 142; p. 1028.
- Ringblom, A. W., Worcester, Mass. Clothes-drier. No. 911,160; Feb. 2; Sp. p. 271; Gaz. vol. 139; p. 48.
- Ring, J. C., Bridgeport, Conn., assignor to Singer Manufacturing Company. Sewing-machine guide for hat-sweats. No. 938,436; Oct. 26; Sp. p. 5967; Gaz. vol. 147; p. 1012.
- Ringer, W. N., Palacios, Tex. Remedy for eczema. No. 925,947; June 22; Sp. p. 5991; Gaz. vol. 143; p. 1035.
- Ringqvist, O. W., assignor, by mesne assignments, to M. E. Johnson, trustee, Fitchburg, Mass. Revolving firearm. No. 931,146; Aug. 17; Sp. p. 3219; Gaz. vol. 145; p. 561.
- Ringsdorf, J. F. P., Essen-on-the-Ruhr, Germany. Production of carbon-covered metal sheets for dynamo-brushes. No. 923,581; June 1; Sp. p. 1054; Gaz. vol. 143; p. 161.
- Ringstad, G. (See Treischman and Ringstad.)
- Ringstaff, W. S., Hickory, N. C. Harness. No. 916,599; Mar. 30; Sp. p. 5987; Gaz. vol. 140; p. 1074.
- Rink, E. C., Philadelphia, Pa. Napkin holder and supporter. No. 909,674; Jan. 12; Sp. p. 2498; Gaz. vol. 138; p. 445.
- Rink, J. C., Erie, Pa. File-sharpener. No. 928,331; July 20; Sp. p. 3424; Gaz. vol. 144; p. 602.
- Rink, J. J., Copenhagen, Denmark. Apparatus for the electrolytic decomposition of alkali-chlorid solutions by means of mercury cathodes. No. 918,370; Apr. 13; Sp. p. 2852; Gaz. vol. 141; p. 505.
- Rinke, B., assignor of one-half to Hacket Brothers, Detroit, Mich. Carbureter. No. 929,327; July 27; Sp. p. 5486; Gaz. vol. 144; p. 961.
- Rinker, H. S., Philadelphia, Pa. Paper-making system. No. 935,407; Sept. 28; Sp. p. 4886; Gaz. vol. 146; p. 864.
- Rinker, J. P., Tres Piedras, N. Mex. Stamp-mill. No. 929,328; July 27; Sp. p. 5488; Gaz. vol. 144; p. 962.
- Rinman, E. L., Gottenborg, Sweden. Manufacturing aluminum compounds. No. 914,187; Mar. 2; Sp. p. 1149; Gaz. vol. 140; p. 179.
- Rinne, A. (See Schwanenberg and Rinne.)
- Rinner, E. C., Coshocton, Ohio. Bottle-wrapper. No. 934,758; Sept. 21; Sp. p. 3582; Gaz. vol. 146; p. 624.
- Riordan, R. W., Brooklyn, N. Y. Rotary engine. No. 924,832; June 15; Sp. p. 3735; Gaz. vol. 143; p. 639.
- Riordan, T. G., Chicago, Ill. Hinge. No. 943,997; Dec. 21; Sp. p. 4238; Gaz. vol. 149; p. 730.
- Ripberger, J., Bellevue, Ky. Rotary motor. No. 929,018; July 27; Sp. p. 4795; Gaz. vol. 144; p. 857.
- Ripley, E. C., Sherman, N. Y. Shaving-brush. No. 919,466; Apr. 27; Sp. p. 5396; Gaz. vol. 141; p. 930.
- Ripley, E. J., Erie, Pa. Key-fastener. No. 929,495; July 27; Sp. p. 5779; Gaz. vol. 144; p. 1013.
- Ripma, G., Grand Rapids, Mich. Automatic coupling for air-brakes. No. 914,512; Mar. 9; Sp. p. 1809; Gaz. vol. 140; p. 309.
- Ripper, J. W., Monaca, Pa. Sealing-band. No. 909,337; Jan. 12; Sp. p. 1843; Gaz. vol. 138; p. 330.
- Ripplin, W. H., Leicester, England. Kneading machinery. No. 931,087; Aug. 17; Sp. p. 3084; Gaz. vol. 145; p. 541.
- Ripple, A. F., Oshkosh, Wis. Mail-box. No. 908,500; Jan. 5; Sp. p. 141; Gaz. vol. 138; p. 25.
- Rippy, E. E., Odin, Ill. Churn. No. 925,652; June 22; Sp. p. 5354; Gaz. vol. 143; p. 937.
- Risberg, J. V. M., Södertelje, assignor to Aktiebolaget Baltic-Separator, Stockholm, Sweden. Manufacture of butter. No. 908,887; Jan. 5; Sp. p. 945; Gaz. vol. 138; p. 150.
- Rishel, J. A., Munhall, Pa. Saddle-block for scales. No. 918,913; Apr. 20; Sp. p. 4076; Gaz. vol. 141; p. 715.
- Rishell, J. D., trustee. (See McRae, W. T., assignor.)
- Risley, W., assignor of one-half to Z. L. Risley, Jacksboro, Tex. Internal-combustion and air-compressing engine. No. 937,717; Oct. 19; Sp. p. 4409; Gaz. vol. 147; p. 749.
- Risley, W., assignor of one-half to Z. L. Risley, Jacksboro, Tex. Rotary reversible engine. No. 937,718; Oct. 19; Sp. p. 4414; Gaz. vol. 147; p. 749.
- Risley, Z. L. (See Risley, W., assignor.)
- Risse, E. O., St. Louis, Mo. Vapor-burner. No. 930,691; Aug. 10; Sp. p. 2190; Gaz. vol. 145; p. 382.
- Rissel, J. K., Potts Grove, Pa. Explosion burglar-alarm. No. 932,642; Aug. 31; Sp. p. 6388; Gaz. vol. 145; p. 1102.
- Ristuccia, A., Pittsburg, Pa. Tie-joint for rails and beams. No. 943,788; Dec. 21; Sp. p. 3779; Gaz. vol. 149; p. 658.
- Ritchel, M., Centerville, Iowa. Door-fastening device. No. 940,362; Nov. 16; Sp. p. 4249; Gaz. vol. 148; p. 716.
- Ritchey, A. M., and R. C. Shane, San Antonio, Tex. Rail-joint. No. 917,153; Apr. 6; Sp. p. 401; Gaz. vol. 141; p. 69.
- Ritchey, C. E., New London, Iowa. Dental spittoon. No. 942,931; Dec. 14; Sp. p. 1924; Gaz. vol. 149; p. 335.
- Ritchie, H., Ludlow, assignor of one-half to E. Boelzner, Newport, Ky. Steam-generator. No. 922,817; May 25; Sp. p. 5606; Gaz. vol. 142; p. 983.
- Ritchie, H. B. (See Young, J. D., assignor.)
- Ritchie, J. R., Philadelphia, Pa. Envelop. No. 910,862; Jan. 26; Sp. p. 4964; Gaz. vol. 138; p. 896.
- Ritchie, W. R., and T. N. Kellett, Los Angeles, Cal. Oil-well pump. No. 925,510; June 22; Sp. p. 5063; Gaz. vol. 143; p. 891.
- Ritscher, W. J. S., Pittsburg, Pa. Horse-detacher. No. 939,745; Nov. 9; Sp. p. 2862; Gaz. vol. 148; p. 472.
- Ritson, C., St. Louis, Mo. Life-raft. No. 921,462; May 11; Sp. p. 2813; Gaz. vol. 142; p. 483.
- Rittenman, L., New York, N. Y. Registering-bank. No. 933,205; Sept. 7; Sp. p. 387; Gaz. vol. 146; p. 61.
- Rittenhouse, C. C., Los Angeles, Cal. Elevator. No. 908,699; Jan. 5; Sp. p. 569; Gaz. vol. 138; p. 89.
- Rittenhouse, C. L., executrix. (See Rittenhouse, S. B. and J. F.)
- Rittenhouse, I., Glen Echo Heights, Md. Pin paper-fastener. No. 920,393; May 4; Sp. p. 621; Gaz. vol. 142; p. 99.
- Rittenhouse, J. F. (See Rittenhouse, S. B. and J. F.)
- Rittenhouse, R., Wormleysburg, Pa. Combined car and train-pipe coupling. No. 927,600; July 13; Sp. p. 1857; Gaz. vol. 144; p. 328.
- Rittenhouse, S. B., deceased, and J. F. Rittenhouse, Liberty Mills, Ind.; C. L. Rittenhouse, executrix of said S. B. Rittenhouse, assignor to said J. F. Rittenhouse. Hand-seeder. No. 927,429; July 6; Sp. p. 1463; Gaz. vol. 144; p. 243.
- Ritter, F. J. (See Guhle, O. W. M., assignor.)
- Ritter, F. W., Jr. (See Casler, B. G., assignor.)
- Ritter, F. W., Jr., Washington, D. C., assignor to Oil Well Supply Company, Pittsburg, Pa. Underreamer. No. 926,608; June 29; Sp. p. 7305; Gaz. vol. 143; p. 1289.
- Ritter, I. B., Philadelphia, Pa. Automatic device for bringing hydraulic-elevator cars to the floor-level. No. 909,675; Jan. 12; Sp. p. 2499; Gaz. vol. 138; p. 444.
- Ritter, M. A., and S. M. McCorkle, assignors to Foss Manufacturing Company, Foss, Okla. Baling-press. No. 924,107; June 8; Sp. p. 2166; Gaz. vol. 143; p. 362.
- Ritter, S. (See Bemiller, D. J., assignor.)
- Ritter, W. F., Cincinnati, Ohio. Cleat for electric wires. No. 934,463; Sept. 21; Sp. p. 3016; Gaz. vol. 146; p. 526.
- Rittersbacher, P., Newark, N. J., assignor to Theberath & Co., Inc. Safety attachment for stick-pins, &c. No. 912,170; Feb. 9; Sp. p. 2334; Gaz. vol. 139; p. 403.



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- Rittershausen, A., Cassel, Germany. Thermo-electric pile. No. 911,446; Feb. 2; Sp. p. 805; Gaz. vol. 139; p. 140.
- Rittler, M., San Francisco, Cal. Studding-clip for building construction. No. 936,167; Oct. 5; Sp. p. 1186; Gaz. vol. 147; p. 180.
- Rittler, W. H., Baltimore, Md. Box for holding and transporting bottles. No. 910,316; Jan. 19; Sp. p. 3854; Gaz. vol. 138; p. 694.
- Ritzler, G. A., Kenton, Ohio. Tension-regulator for shears. No. 933,667; Sept. 7; Sp. p. 1432; Gaz. vol. 146; p. 215.
- Rivara, J., Natchez, Miss. Machine for making macaroni and the like. No. 928,796; July 20; Sp. p. 4336; Gaz. vol. 144; p. 755.
- River & Rail Transportation Company. (See Kirchner, H. W., assignor.)
- Rivers, J., Detroit, Mich. System of boat propulsion. No. 921,891; May 18; Sp. p. 3701; Gaz. vol. 142; p. 653.
- Rivers, J., Detroit, Mich. Clamp. No. 922,336; May 18; Sp. p. 4590; Gaz. vol. 142; p. 798.
- Rivers-Moore, H. R., and J. M. Donald, London, England. Contactor-commutator for dynamo-electric machines. No. 917,898; Apr. 13; Sp. p. 1893; Gaz. vol. 141; p. 344.
- Rivers, W. E., Old Bridge, N. J. Sagger. No. 941,044; Nov. 23; Sp. p. 5740; Gaz. vol. 148; p. 969.
- Rives, G. H., New York, N. Y. Device for facilitating the dealing of cards. No. 922,954; May 25; Sp. p. 5902; Gaz. vol. 142; p. 1028.
- Rivett, E., Boston, Mass. Bearing for grinding apparatus. No. 913,767; Mar. 2; Sp. p. 190; Gaz. vol. 140; p. 32.
- Riviere, J., Pittsburg, Pa. Antirefillable bottle. No. 922,335; May 18; Sp. p. 4589; Gaz. vol. 142; p. 797.
- Rix, E. A., San Francisco, Cal. Air-valve gear. No. 931,650; Aug. 17; Sp. p. 4256; Gaz. vol. 145; p. 726.
- Rix, F. R. (See Cole, C. N., assignor.)
- Rix, G. K., Chicago, Ill., assignor to Barbee Wire & Iron Works, La Fayette, Ind. Making wire frames. No. 933,342; Sept. 7; Sp. p. 696; Gaz. vol. 146; p. 108.
- Rix, J., Limestone, Me. Sack-holder. No. 944,211; Dec. 21; Sp. p. 4661; Gaz. vol. 149; p. 799.
- Rix, M. H. (See Hovey and Rix.)
- Rizer, F. W., assignor to F. M. Patterson, Chicago, Ill. Foot-guard for railway switches and crossing-frogs and the like. No. 929,986; Aug. 3; Sp. p. 776; Gaz. vol. 145; p. 124.
- Roach, A. C. (See McMaster, W. B., assignor.)
- Roach, H. F., assignor to Continuous Rail & Safety Switch Co., St. Louis, Mo. Train-actuated rail. No. 926,210; June 29; Sp. p. 6553; Gaz. vol. 143; p. 1158.
- Roach, H. F., assignor to Continuous Rail & Safety Switch Co., St. Louis, Mo. Automatic switch-locking mechanism. No. 926,211; June 29; Sp. p. 6555; Gaz. vol. 143; p. 1159.
- Roach, H. F., assignor to Continuous Rail & Safety Switch Co., St. Louis, Mo. Switch. No. 929,788; Aug. 3; Sp. p. 329; Gaz. vol. 145; p. 56.
- Roach, H. F., assignor to Continuous Rail & Safety Switch Co., St. Louis, Mo. Automatic switch and signal. No. 929,880; Aug. 3; Sp. p. 543; Gaz. vol. 145; p. 87.
- Roach, H. F., assignor to Continuous Rail & Safety Switch Co., St. Louis, Mo. Switch-stand. No. 929,881; Aug. 3; Sp. p. 549; Gaz. vol. 145; p. 88.
- Roach, H. F., assignor to Continuous Rail & Safety Switch Co., St. Louis, Mo. Railway-track structure. No. 929,882; Aug. 3; Sp. p. 552; Gaz. vol. 145; p. 88.
- Roach, J., East St. Louis, Ill. Stock-watering device. No. 929,883; Aug. 3; Sp. p. 559; Gaz. vol. 145; p. 89.
- Roadmant Company. (See Mitchell, G. A., A. J., and E. E., assignors.)
- Roake, J. S., New York, N. Y. Filter. No. 943,708; Dec. 21; Sp. p. 3621; Gaz. vol. 149; p. 630.
- Roan, N. E. (See Bennett, W. T., assignor.)
- Roath, J. C., Adrian, Ill. Disk tongue device. No. 940,194; Nov. 16; Sp. p. 3881; Gaz. vol. 148; p. 658.
- Robare, H. W. (See Reesor, I. C., assignor.)
- Robb, E. (See Weisler, A., assignor.)
- Robb, L. J., assignor to Heyl & Patterson Incorporated, Pittsburg, Pa. Device for transferring glassware to leers. No. 927,168; July 6; Sp. p. 969; Gaz. vol. 144; p. 158.
- Robb, R., *et al.* (See MacKaye, J., assignor.)
- Robben, C. A., Angelus, Kans. Combined hay rake and stacker. No. 938,076; Oct. 26; Sp. p. 5184; Gaz. vol. 147; p. 888.
- Robbins, A. F., Waltham, Mass. Mainspring-winder. No. 916,197; Mar. 23; Sp. p. 5168; Gaz. vol. 140; p. 915.
- Robbins, C. C., Portland, Oreg., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 940,363; Nov. 16; Sp. p. 4250; Gaz. vol. 148; p. 717.
- Robbins, C. L., East Thompson, Conn. Gearing. No. 944,635; Dec. 23; Sp. p. 5616; Gaz. vol. 149; p. 974.
- Robbins, G. B. (See Sharp, W. E., assignor.)
- Robbins, G. B. (See Sharp, W. E., assignor.) (Reissue.)
- Robbins, G. B., Hinsdale, and W. E. Sharp, Chicago, Ill. Steel underframe for railway-cars. No. 922,955; May 25; Sp. p. 5903; Gaz. vol. 142; p. 1029.
- Robbins, G. B., Hinsdale, and W. E. Sharp, Chicago, Ill. Steel underframe for railway-cars. No. 926,897; July 6; Sp. p. 397; Gaz. vol. 144; p. 64.
- Robbins, J. E., Greensburg, and W. A. and C. P. Kirkpatrick, Indianapolis, Ind. Trolley-head. No. 921,650; May 11; Sp. p. 3207; Gaz. vol. 142; p. 548.
- Robbins, J. S., Allentown, N. J. Potato-digger. No. 923,079; May 25; Sp. p. 6154; Gaz. vol. 142; p. 1067.
- Robbins, R. A., Newton, assignor to Carter's Ink Company, Boston, Mass. Box. No. 913,054; Feb. 23; Sp. p. 4199; Gaz. vol. 139; p. 760.
- Robbins, V., Meridian, Miss. Combined hose supporter and protector. No. 942,751; Dec. 7; Sp. p. 1485; Gaz. vol. 149; p. 244.
- Robenbach, C. H. (See Cleveland, H. S., assignor.)
- Robber, H. J., Springfield, Ohio. Lawn-trimmer. No. 911,073; Feb. 2; Sp. p. 101; Gaz. vol. 139; p. 18.
- Roberge, J. Z., Dallas, Tex. Leather-strap-finishing machine. No. 916,600; Mar. 30; Sp. p. 5988; Gaz. vol. 140; p. 1074.
- Robergel, E. L., La Gueroulde, France. Machine for making reinforced bicycle-spokes. No. 924,582; June 8; Sp. p. 3185; Gaz. vol. 143; p. 521.
- Roberson, L., Sharpsburg, Ky. Motor-controlling mechanism. No. 925,653; June 22; Sp. p. 5355; Gaz. vol. 143; p. 938.
- Robert Holmes & Brothers. (See Holmes, G., assignor.)
- Robert L. Walker Furnace Company. (See Milbank, L. A., assignor.)
- Robert N. Bassett Company. (See Burns, M. F., assignor.)
- Robert N. Bassett Company. (See Holden, W. A., assignor.)
- Robert N. Bassett Company. (See Russ and Poland, assignors.)
- Roberti, D., Newark, N. J. Spring-fan. No. 936,668; Oct. 12; Sp. p. 2254; Gaz. vol. 147; p. 375.
- Roberts, A., and A. Libert, Green Bay, Wis. Rotary pulp-wood barker and peeling machine. No. 934,464; Sept. 21; Sp. p. 3017; Gaz. vol. 146; p. 526.
- Roberts, A. A., New York, N. Y. Hat-fastener. No. 911,764; Feb. 9; Sp. p. 1460; Gaz. vol. 139; p. 272.
- Roberts, A. E., Alameda, Cal. Score-card for games. No. 925,029; June 15; Sp. p. 4151; Gaz. vol. 143; p. 706.
- Roberts, A. F., Chicago, Ill. Machine for sealing envelopes. No. 926,827; July 6; Sp. p. 258; Gaz. vol. 144; p. 41.
- Roberts, A. H., Waverly, N. Y. Device for preventing dog nuisance. No. 922,956; May 25; Sp. p. 5904; Gaz. vol. 142; p. 1029.
- Roberts, A. S., Knoxville, Tenn. Grate. No. 916,022; Mar. 23; Sp. p. 4853; Gaz. vol. 140; p. 859.
- Roberts, B. F., *et al.* (See Roberts, B. L., assignor.)
- Roberts, B. L., New Haven, Conn., assignor of one-tenth to B. F. Roberts and one-tenth to J. A. Roberts, Thornwell, La. Index-box. No. 927,754; July 13; Sp. p. 2186; Gaz. vol. 144; p. 379.
- Roberts Brass Manufacturing Company. (See Roberts, E. W. and W. H., assignors.)
- Roberts, C. (See Roberts, W. and C.)
- Roberts, C. C., Ansonia, Conn. Finning or coating machine. No. 911,613; Feb. 9; Sp. p. 1165; Gaz. vol. 139; p. 222.
- Roberts, C. H., Evansville, Ind. Portable derrick. No. 927,680; July 13; Sp. p. 2037; Gaz. vol. 144; p. 354.
- Roberts, C. J., *et al.* (See Herritt, L., assignor.)
- Roberts, C. S. (See Schnabel, H. E., assignor.)
- Roberts, C. T., Tucson, Ariz. Ter., assignor of one-half to L. Zechendorf, New York, N. Y. Fire-extinguishing system. No. 925,230; June 15; Sp. p. 4533; Gaz. vol. 143; p. 774.
- Roberts, C. W., Hannibal, Mo. Beading-tool for boots and shoes. No. 925,387; June 15; Sp. p. 4807; Gaz. vol. 143; p. 821.
- Roberts, D., and C. James, Grantham, England. Steering device for motor-vehicles. No. 910,232; Jan. 19; Sp. p. 3648; Gaz. vol. 138; p. 663.
- Roberts, D., and C. James, Grantham, England. Traction-engine. No. 916,601; Mar. 30; Sp. p. 5992; Gaz. vol. 140; p. 1075.
- Roberts, D., and C. James, Grantham, England. Portable track for motor-vehicles. No. 930,795; Aug. 10; Sp. p. 2408; Gaz. vol. 145; p. 147.
- Roberts, D., and C. James, Grantham, England. Internal-combustion engine. No. 937,181; Oct. 19; Sp. p. 3293; Gaz. vol. 147; p. 573.
- Roberts, E. C., Saltville, Va. Drawing-table. No. 919,245; Apr. 20; Sp. p. 4883; Gaz. vol. 141; p. 820.
- Roberts, E. D., Tacoma, Wash. Fair leader. No. 920,394; May 4; Sp. p. 622; Gaz. vol. 142; p. 99.
- Roberts, E. W. and W. H., assignors to Roberts Brass Manufacturing Company, Detroit, Mich. Valve. No. 912,890; Feb. 16; Sp. p. 3859; Gaz. vol. 139; p. 680.
- Roberts, F. B., Salem, Oreg. Machine for saving gold. No. 943,789; Dec. 21; Sp. p. 3780; Gaz. vol. 149; p. 658.

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- Roberts, F. C., Philadelphia, Pa. Furnace-charging apparatus. No. 910,233; Jan. 19; Sp. p. 3650; Gaz. vol. 138; p. 663.  
 Roberts, F. C., Philadelphia, Pa. Blast-furnace-charging apparatus. No. 929,631; July 27; Sp. p. 6050; Gaz. vol. 144; p. 1059.  
 Roberts, F. C., Detroit, Mich. Corer. No. 917,660; Apr. 6; Sp. p. 1354; Gaz. vol. 141; p. 239.  
 Roberts, F. C., Detroit, Mich. Music-record guide. No. 917,661; Apr. 6; Sp. p. 1355; Gaz. vol. 141; p. 239.  
 Roberts, F. C., Detroit, Mich. Steam-cooker. No. 931,088; Aug. 17; Sp. p. 3086; Gaz. vol. 145; p. 541.  
 Roberts, F. C., Detroit, Mich. Fruit-cooker. No. 932,905; Aug. 31; Sp. p. 6908; Gaz. vol. 145; p. 1187.  
 Roberts, F. L., Washington, D. C. Locomotive ash-pan. No. 941,815; Nov. 30; Sp. p. 7417; Gaz. vol. 148; p. 1247.  
 Roberts, F. M. (See Rollins, E. C., assignor.)  
 Roberts, F. W., and A. Ward, Northampton, England. Lasting-machine. No. 925,511; June 22; Sp. p. 5065; Gaz. vol. 143; p. 892.  
 Roberts, G. S. (See Dewine, Roberts, and Van Pelt.)  
 Roberts, H., Milwaukee, Wis. Scene-shifting mechanism. No. 912,732; Feb. 16; Sp. p. 3576; Gaz. vol. 139; p. 631.  
 Roberts, H., Pittsburg, Pa. Metal-coating apparatus. No. 917,662; Apr. 6; Sp. p. 1356; Gaz. vol. 141; p. 239.  
 Roberts, H., assignor of one-fourth to J. A. Bleichner, Pittsburg, Pa. Apparatus for coating metal. No. 915,480; Mar. 16; Sp. p. 3750; Gaz. vol. 140; p. 652.  
 Roberts, H. C., Maxton, N. C. Spiral punch. No. 921,463; May 11; Sp. p. 2814; Gaz. vol. 142; p. 484.  
 Roberts, H. J., Evanston, and C. A. Soans and A. H. Graves, Chicago, Ill. Polarized relay. No. 916,373; Mar. 23; Sp. p. 5487; Gaz. vol. 140; p. 974.  
 Roberts, H. J., Evanston, and C. A. Soans and A. H. Graves, Chicago, Ill., assignors, by mesne assignments, to Homer Roberts Telephone Co. Party-line telephone system. No. 926,510; June 29; Sp. p. 7113; Gaz. vol. 143; p. 1256.  
 Roberts, H. L., New York, N. Y. Thread-stitching machine for pamphlets and similar articles. No. 944,051; Dec. 21; Sp. p. 4341; Gaz. vol. 149; p. 748.  
 Roberts, H. P., Boston, Mass. Device for sealing bottles. No. 916,198; Mar. 23; Sp. p. 5171; Gaz. vol. 140; p. 916.  
 Roberts, I. L., Lockport, N. Y. Manufacture of water, acid, and alkali proof articles. No. 921,000; May 11; Sp. p. 1845; Gaz. vol. 142; p. 327.  
 Roberts, I. L., Lockport, N. Y. Manufacture of waterproof articles from fibrous materials. No. 921,001; May 11; Sp. p. 1847; Gaz. vol. 142; p. 328.  
 Roberts, I. L., Lockport, N. Y. Making fire, water, and oil resistant articles. No. 921,002; May 11; Sp. p. 1848; Gaz. vol. 142; p. 328.  
 Roberts, I. L., New York, N. Y. Electrolytic apparatus. No. 936,039; Oct. 5; Sp. p. 925; Gaz. vol. 147; p. 140.  
 Roberts, J. A., *et al.* (See Roberts, B. L., assignor.)  
 Roberts, J. G., administrator. (See Platter, F. D.)  
 Roberts, J. M. (See Brown and Roberts.)  
 Roberts, J. O., Granger, Tex. Guard or fender for vehicle-wheels. No. 941,170; Nov. 23; Sp. p. 6021; Gaz. vol. 148; p. 1011.  
 Roberts, Johnson & Rand Shoe Company. (See Watkins, G., assignor.)  
 Roberts, L. D., Shawano, Wis. Calculating-machine. No. 917,134; Apr. 6; Sp. p. 361; Gaz. vol. 141; p. 63.  
 Roberts, L. L., Hilliard, Fla. Nut-lock. No. 921,003; May 11; Sp. p. 1851; Gaz. vol. 142; p. 328.  
 Roberts, L. P., Minneapolis, Minn. Grain-door for cars. No. 928,905; July 13; Sp. p. 2707; Gaz. vol. 144; p. 461.  
 Roberts, M. F., Philadelphia, Pa. Jig for braces and bits. No. 917,488; Apr. 6; Sp. p. 1041; Gaz. vol. 141; p. 182.  
 Roberts, M. V., Epsom, England. Apparatus for straining water and the like. No. 913,768; Mar. 2; Sp. p. 192; Gaz. vol. 140; p. 32.  
 Roberts, O. (See Mason, J. M., assignor.)  
 Roberts, O. L., Deedsville, Ind. Steel tie. No. 933,392; Sept. 7; Sp. p. 812; Gaz. vol. 146; p. 126.  
 Roberts, P. C., Trenton, Nebr. Calf-muzzle. No. 914,881; Mar. 9; Sp. p. 2583; Gaz. vol. 140; p. 430.  
 Roberts, R. J., New York, N. Y. Flexible slide-rule. No. 937,863; Oct. 26; Sp. p. 4722; Gaz. vol. 147; p. 817.  
 Roberts, R. W., Washington, D. C. Flat-iron heater. No. 944,380; Dec. 28; Sp. p. 5030; Gaz. vol. 149; p. 885.  
 Roberts, T., Bolton, England. Bottle-filling machine. No. 931,344; Aug. 17; Sp. p. 3650; Gaz. vol. 145; p. 630.  
 Roberts, W. and C., Springfield, Ohio. Pole. No. 919,771; Apr. 27; Sp. p. 6009; Gaz. vol. 141; p. 1033.  
 Roberts, W. and C., Springfield, Ohio. Pole. No. 919,772; Apr. 27; Sp. p. 6011; Gaz. vol. 141; p. 1033.  
 Roberts, W. C. (See Lundvall and Olson, assignors.)  
 Roberts, W. E., Macdoel, Cal. Whip-lock. No. 916,490; Mar. 30; Sp. p. 5761; Gaz. vol. 140; p. 1038.  
 Roberts, W. E., San Antonio, Tex. Railway-tie. No. 937,182; Oct. 19; Sp. p. 3295; Gaz. vol. 147; p. 573.  
 Roberts, W. H. (See Roberts, E. W. and W. H.)  
 Roberts, W. O., Wellston, Ohio. Check-holder. No. 933,668; Sept. 7; Sp. p. 1433; Gaz. vol. 146; p. 215.  
 Roberts, W. W., Flat River, Mo. Tree-cover. No. 935,057; Sept. 28; Sp. p. 4189; Gaz. vol. 146; p. 750.  
 Robertshaw, F. W. (See Young and Robertshaw.)  
 Robertshaw, F. W., Pittsburg, Pa. Water-heater. No. 935,408; Sept. 28; Sp. p. 4888; Gaz. vol. 146; p. 864.  
 Robertson, A. G., Auburn, N. Y. Woven pile fabric. No. 908,888; Jan. 5; Sp. p. 946; Gaz. vol. 138; p. 150.  
 Robertson, C. A., Milledgeville, Ga. Clothes-pounder. No. 942,462; Dec. 7; Sp. p. 914; Gaz. vol. 149; p. 147.  
 Robertson, D., Wellington, New Zealand. Postmarking-machine. No. 914,513; Mar. 9; Sp. p. 1810; Gaz. vol. 140; p. 309.  
 Robertson, E. S., May City, Iowa. Hoisting-machine. No. 929,168; July 27; Sp. p. 5105; Gaz. vol. 144; p. 907.  
 Robertson, F., Denver, Colo. Substitute buttonhole attachment. No. 939,092; Nov. 2; Sp. p. 1363; Gaz. vol. 148; p. 222.  
 Robertson, J., Shelby, Iowa. Concrete hog-trough and valve. No. 925,948; June 22; Sp. p. 5991; Gaz. vol. 143; p. 1035.  
 Robertson, J., Perth, Ontario, Canada. Lock and fastener. No. 933,586; Sept. 7; Sp. p. 1271; Gaz. vol. 146; p. 188.  
 Robertson, J., West Ferry, near Dundee, Scotland. Spinning and doubling machinery. No. 937,647; Oct. 19; Sp. p. 4261; Gaz. vol. 147; p. 777.  
 Robertson, J. A., assignor to Eastman Kodak Co., Rochester, N. Y. Camera. No. 917,135; Apr. 6; Sp. p. 366; Gaz. vol. 141; p. 63.  
 Robertson, J. A., assignor to Eastman Kodak Co., Rochester, N. Y. Photographic-film pack. No. 917,136; Apr. 6; Sp. p. 368; Gaz. vol. 141; p. 64.  
 Robertson, J. A., assignor to Eastman Kodak Co., Rochester, N. Y. Camera-finder. No. 937,266; Oct. 19; Sp. p. 3478; Gaz. vol. 147; p. 601.  
 Robertson, J. B., assignor of one-half to D. F. Chidester, Bushnell, Ill. Step-ladder. No. 909,825; Jan. 12; Sp. p. 2798; Gaz. vol. 138; p. 493.  
 Robertson, J. D., *et al.* (See Garretson, E., assignor.)  
 Robertson, J. W., Cadiz, Ohio. Whip-lock. No. 942,285; Dec. 7; Sp. p. 554; Gaz. vol. 149; p. 87.  
 Robertson, S. M. (See Martin, J. D., assignor.)  
 Robertson Sales Co. (See Matthews, N. J., assignor.)  
 Robertson, W., Vail, Iowa. Pig-forceps. No. 930,886; Aug. 10; Sp. p. 2613; Gaz. vol. 145; p. 447.  
 Robertson, W. A., Charlottetown, Prince Edward Island, Canada. Planing-machine. No. 939,093; Nov. 2; Sp. p. 1364; Gaz. vol. 148; p. 222.  
 Robertson, W. E., *et al.* (See Garretson, E., assignor.)  
 Robey, H. H., *et al.* (See Thompson, J. V., assignor.)  
 Robey, N. B., Indianapolis, Ind. Welding and calking machine. No. 935,232; Sept. 28; Sp. p. 4538; Gaz. vol. 146; p. 808.  
 Robillard, R. J., Ottawa, Ontario, Canada. Corner-stay for boxes. No. 944,381; Dec. 28; Sp. p. 5034; Gaz. vol. 149; p. 886.  
 Robin, J. M., Klamath Falls, Ore. Lifting-power. No. 915,114; Mar. 16; Sp. p. 3020; Gaz. vol. 140; p. 533.  
 Robinet, N., Tonkawa, Okla. Cotton-chopper. No. 940,279; Nov. 16; Sp. p. 4063; Gaz. vol. 148; p. 659.  
 Robins, O. W., Cedar Rapids, Iowa. Ice-edger. No. 935,690; Oct. 5; Sp. p. 144; Gaz. vol. 147; p. 24.  
 Robins, T., New York, N. Y. Belt for conveyors. No. 913,917; Mar. 2; Sp. p. 537; Gaz. vol. 140; p. 86.  
 Robins, T., New York, N. Y. Belt conveyor. No. 919,638; Apr. 27; Sp. p. 5748; Gaz. vol. 141; p. 989.  
 Robinson, A., *et al.* (See Hoover, G. W., assignor.)  
 Robinson, A. E., Covington, Ky., assignor to American Tool Works Company, Cincinnati, Ohio. Shaper. No. 930,088; Aug. 3; Sp. p. 981; Gaz. vol. 145; p. 159.  
 Robinson, A. J., Boston, Mass. Faucet. No. 940,556; Nov. 16; Sp. p. 4695; Gaz. vol. 148; p. 781.  
 Robinson, A. T., Saginaw, Mich. Coal-hod. No. 935,409; Sept. 28; Sp. p. 4892; Gaz. vol. 146; p. 865.  
 Robinson, C., Mount Vernon, N. Y. Twyer for blast-furnaces and converters. No. 911,614; Feb. 9; Sp. p. 1171; Gaz. vol. 139; p. 222.  
 Robinson, C., Mount Vernon, N. Y. Desulfurizing and agglomerating ores. No. 926,289; June 29; Sp. p. 6705; Gaz. vol. 143; p. 1183.  
 Robinson, C., Schenectady, N. Y., assignor to General Electric Company. Magnetic wedge. No. 917,138; Apr. 6; Sp. p. 372; Gaz. vol. 141; p. 64.  
 Robinson, C., Schenectady, N. Y., assignor to General Electric Company. Induction-motor. No. 936,360; Oct. 12; Sp. p. 1571; Gaz. vol. 147; p. 269.  
 Robinson, C. A., Sitton, Colo. Illuminating device. No. 917,137; Apr. 6; Sp. p. 371; Gaz. vol. 141; p. 64.  
 Robinson, C. I., West New Brighton, N. Y., assignor to Standard Oil Company, Bayonne, N. J. Desulfurizing Lima or analogous petroleum and related oils. No. 910,584; Jan. 26; Sp. p. 4419; Gaz. vol. 138; p. 809.  
 Robinson, C. R., Concord, N. H. Portable holder for hose-nozzles. No. 929,019; July 27; Sp. p. 4797; Gaz. vol. 144; p. 857.  
 Robinson, C. S., assignor of one-half to P. C. Ward, Walnut Log, Tenn. Match-box. No. 919,639; Apr. 27; Sp. p. 5750; Gaz. vol. 141; p. 989.  
 Robinson & Co. (See Robinson, H. R., assignor.)  
 Robinson, D. F., Los Angeles, Cal. Track-oiling device. No. 944,464; Dec. 28; Sp. p. 5225; Gaz. vol. 149; p. 915.



*Alphabetical list of patentees—Continued.*

- Robinson, D. P., assignor to Continental Can Company, Baltimore, Md. Gang-die for cutting sheet-metal blanks. No. 915,042; Mar. 9; Sp. p. 2847; Gaz. vol. 140; p. 483.
- Robinson, D. P., assignor to Continental Can Company, Baltimore, Md. Cutting disks. No. 915,043; Mar. 9; Sp. p. 2850; Gaz. vol. 140; p. 483.
- Robinson, D. P., assignor to Continental Can Company, Baltimore, Md. Die-cutting machine. No. 941,953; Nov. 30; Sp. p. 7688; Gaz. vol. 148; p. 1295.
- Robinson, D. P., assignor to Continental Can Company, Baltimore, Md. Cutting disks from sheet-metal plates. No. 942,104; Dec. 7; Sp. p. 152; Gaz. vol. 149; p. 24.
- Robinson, D. P., assignor to Continental Can Company, Baltimore, Md. Die-cutting machine. No. 942,146; Dec. 7; Sp. p. 264; Gaz. vol. 149; p. 40.
- Robinson, E. A. (See Coffey, Pfennighausen, and Robinson.)
- Robinson, E. C. (See Lyda and Robinson.)
- Robinson, E. C. (See Lyda, Cubbison, and Robinson.)
- Robinson, E. F., Rochester, N. Y. Railway-tie. No. 909,940; Jan. 19; Sp. p. 3043; Gaz. vol. 138; p. 564.
- Robinson, E. H., assignor to Robinson Furnace Company, Chicago, Ill. Heating-furnace. No. 932,579; Aug. 31; Sp. p. 6250; Gaz. vol. 145; p. 1081.
- Robinson, E. T., assignor to St. Louis Car Company, St. Louis, Mo. Passenger-car. No. 914,751; Mar. 9; Sp. p. 2319; Gaz. vol. 140; p. 388.
- Robinson, E. T., assignor to St. Louis Car Company, St. Louis, Mo. Railway-car. No. 917,361; Apr. 6; Sp. p. 824; Gaz. vol. 141; p. 141.
- Robinson, E. T., assignor to St. Louis Car Company, St. Louis, Mo. Disappearing luggage-carrier for automobiles. No. 917,362; Apr. 6; Sp. p. 826; Gaz. vol. 141; p. 141.
- Robinson, E. T., assignor to St. Louis Car Company, St. Louis, Mo. Semi-convertible car. No. 925,133; June 15; Sp. p. 4344; Gaz. vol. 143; p. 741.
- Robinson, E. T., assignor to St. Louis Car Company, St. Louis, Mo. Door hanger and guide. No. 926,356; June 29; Sp. p. 6847; Gaz. vol. 143; p. 1205.
- Robinson, E. T., assignor to Robinson Fire Apparatus Manufacturing Company, St. Louis, Mo. Ladder. No. 916,602; Mar. 30; Sp. p. 5994; Gaz. vol. 140; p. 1075.
- Robinson Electric Faucet Company. (See Robinson, F. A., assignor.)
- Robinson, F. A., Pittsfield, Mass., assignor to Robinson Electric Faucet Company, Cohoes, N. Y. Electrically-heated water-faucet. No. 927,755; July 13; Sp. p. 2188; Gaz. vol. 144; p. 379.
- Robinson, F. L., and J. McCabe, assignors to Wyoming Track Sand Co., Cheyenne, Wyo. Track-sanding apparatus. No. 910,726; Jan. 26; Sp. p. 4690; Gaz. vol. 138; p. 853.
- Robinson, F. N., Portland, Oreg. Revolving nut-stand. No. 910,585; Jan. 26; Sp. p. 4437; Gaz. vol. 138; p. 809.
- Robinson, F. N., Portland, Oreg. Revolving stand. No. 931,960; Aug. 24; Sp. p. 4975; Gaz. vol. 145; p. 852.
- Robinson, F. N., Portland, Oreg. Revolving stand. No. 931,961; Aug. 24; Sp. p. 4976; Gaz. vol. 145; p. 852.
- Robinson Fire Apparatus Manufacturing Company. (See Robinson, E. T., assignor.)
- Robinson Furnace Company. (See Robinson, E. H., assignor.)
- Robinson, G. H., Seattle, Wash. Saw-sharpening machine. No. 928,332; July 20; Sp. p. 3425; Gaz. vol. 144; p. 603.
- Robinson, G. L., and J. Dean, Santa Monica, Cal. Door-holder. No. 911,074; Feb. 2; Sp. p. 104; Gaz. vol. 139; p. 19.
- Robinson, H., Newark, N. J. Vegetable-paring machine. No. 942,932; Dec. 14; Sp. p. 1925; Gaz. vol. 149; p. 336.
- Robinson, H. A., Chicago, Ill. Air-purifier. No. 923,444; June 1; Sp. p. 751; Gaz. vol. 143; p. 111.
- Robinson, H. D., New York, N. Y. Cable-squeezer. No. 926,609; June 29; Sp. p. 7309; Gaz. vol. 143; p. 1289.
- Robinson, H. D., Philadelphia, Pa. Pipe-coupling. No. 930,692; Aug. 10; Sp. p. 2191; Gaz. vol. 145; p. 382.
- Robinson, H. R., assignor to Robinson & Co., Richmond, Ind. Grain threshers and separator. No. 910,477; Jan. 19; Sp. p. 4189; Gaz. vol. 138; p. 749.
- Robinson, H. S., Fallston, assignor to C. B. Mann, Jr., Baltimore, Md. Cable-clutch for cars. No. 931,089; Aug. 17; Sp. p. 3088; Gaz. vol. 145; p. 542.
- Robinson, H. S., Fallston, assignor to C. B. Mann, Jr., Baltimore, Md. Aerial tramway. No. 942,518; Dec. 7; Sp. p. 1026; Gaz. vol. 149; p. 166.
- Robinson, J. (See Boxer, F. W., assignor.)
- Robinson, J., et al. (See Patterson, D. W., assignor.)
- Robinson, J., Lawrence, Mass. Thread-guide for looms. No. 943,270; Dec. 14; Sp. p. 2660; Gaz. vol. 149; p. 450.
- Robinson, J., Lawrence, assignor of one-half to A. W. Saunders and C. O'Neil, Lowell, Mass. Shuttle. No. 934,017; Sept. 14; Sp. p. 2134; Gaz. vol. 146; p. 353.
- Robinson, J. E., Wheeling, W. Va. Nut-lock. No. 938,515; Nov. 2; Sp. p. 169; Gaz. vol. 148; p. 23.
- Robinson, J. E., assignor of one-half to J. C. Williams, Wheeling, W. Va. Head-rod fastener for awnings. No. 923,892; June 8; Sp. p. 1769; Gaz. vol. 143; p. 295.
- Robinson, J. M. (See Hughes and Robinson.)
- Robinson, J. R., and J. F. Sugrue, Ennis, Tex. Metal railway-tie. No. 914,077; Mar. 2; Sp. p. 904; Gaz. vol. 140; p. 142.
- Robinson, J. V., Salem, Oreg. Logging swivel-joint. No. 937,960; Oct. 26; Sp. p. 4915; Gaz. vol. 147; p. 849.
- Robinson, J. V., Salem, Oreg. Automatic air and steam coupling. No. 937,961; Oct. 26; Sp. p. 4916; Gaz. vol. 147; p. 849.
- Robinson, L. C., and J. B. Gaylor, Thermopolis, Wyo. Pipe-coupling. No. 919,955; Apr. 27; Sp. p. 6402; Gaz. vol. 141; p. 1093.
- Robinson, L. E., Coffeyville, Kans. Packer for oil, gas, and water wells. No. 927,874; July 13; Sp. p. 2440; Gaz. vol. 144; p. 417.
- Robinson, L. G., Newport, Ky., and J. J. Meyers, assignors to J. A. Fay & Egan Company, Cincinnati, Ohio. Spoke-lathe. No. 913,769; Mar. 2; Sp. p. 195; Gaz. vol. 140; p. 32.
- Robinson, L. M., Matteawan, N. Y. Automatic mail-slot alarm. No. 919,081; Apr. 20; Sp. p. 4393; Gaz. vol. 141; p. 767.
- Robinson, L. T., Schenectady, N. Y., assignor to General Electric Company. Electric recording instrument. No. 910,956; Jan. 26; Sp. p. 5143; Gaz. vol. 138; p. 927.
- Robinson, L. T., Schenectady, N. Y., assignor to General Electric Company. Oscillograph. No. 919,467; Apr. 27; Sp. p. 5398; Gaz. vol. 141; p. 931.
- Robinson, L. T., and C. C. Badeau, Schenectady, N. Y., assignors to General Electric Company. Speed-recorder and curve-drawing instrument. No. 919,640; Apr. 27; Sp. p. 5752; Gaz. vol. 141; p. 990.
- Robinson, M. H. (See Peache and Robinson.)
- Robinson, N. H. (See Ramsey, E. C., assignor.)
- Robinson, P. H., Shelton, Conn. Single-trigger mechanism. No. 937,864; Oct. 26; Sp. p. 4725; Gaz. vol. 147; p. 817.
- Robinson, R. B. (See Bates and Robinson.)
- Robinson, R. B., Kansas City, Mo. Automatic compressed-air train signal and stopping system. No. 911,161; Feb. 2; Sp. p. 273; Gaz. vol. 139; p. 48.
- Robinson, R. B., Salt Lake City, Utah. Track-fastener for rails. No. 922,043; May 18; Sp. p. 4018; Gaz. vol. 142; p. 702.
- Robinson, R. H., New York, N. Y. Carriage for portable pneumatic drills or other apparatus. No. 934,418; Sept. 14; Sp. p. 2916; Gaz. vol. 146; p. 488.
- Robinson, R. H., and C. M. Hubbard, Sunderland, Mass. Tobacco-sizing machine. No. 932,327; Aug. 24; Sp. p. 5708; Gaz. vol. 145; p. 974.
- Robinson, R. W., Worcester, Mass. Clothes-reel. No. 940,729; Nov. 23; Sp. p. 5068; Gaz. vol. 148; p. 865.
- Robinson, S. (See Appel, M., assignor.)
- Robinson, S., Pemilico, London, England. Means for packing reciprocating pistons and the like. No. 940,068; Nov. 16; Sp. p. 3593; Gaz. vol. 148; p. 614.
- Robinson, S., and J. A. Saffer, Emporia, Kans. Riding-wheel road-scraper. No. 909,228; Jan. 12; Sp. p. 1636; Gaz. vol. 138; p. 294.
- Robinson, S. M., et al. (See Flora, C. F., assignor.)
- Robinson, S. N. (See Lattner and Robinson.)
- Robinson, T., Everett, Wash. Key-receptacle. No. 926,963; July 6; Sp. p. 535; Gaz. vol. 144; p. 88.
- Robinson, T. F. (See Swanson, J. H., assignor.)
- Robinson, T. W., Trussville, Ala. Harrow. No. 937,719; Oct. 19; Sp. p. 4419; Gaz. vol. 147; p. 750.
- Robinson, W. (See Douglas and Robinson.)
- Robinson, W., Brooklyn, N. Y. Adjustable platform for railway-cars. No. 919,383; Apr. 27; Sp. p. 5198; Gaz. vol. 141; p. 901.
- Robinson, W. C., Pittsburg, Pa. Feed mechanism for furnaces. No. 914,188; Mar. 2; Sp. p. 1151; Gaz. vol. 140; p. 179.
- Robinson, W. C., Pittsburg, Pa. Plant for sherardizing. No. 935,058; Sept. 28; Sp. p. 4190; Gaz. vol. 146; p. 751.
- Robinson, W. C., Pittsburg, Pa. Metal-punch. No. 939,324; Nov. 9; Sp. p. 1929; Gaz. vol. 148; p. 329.
- Robinson, W. C., Cambridge, Mass. Sash-fastener. No. 918,090; Apr. 13; Sp. p. 2301; Gaz. vol. 141; p. 413.
- Robinson, W. E., Philadelphia, Pa. Gate. No. 936,812; Oct. 12; Sp. p. 2527; Gaz. vol. 147; p. 422.
- Robinson, W. S., Fresno, Cal. Oil-burner. No. 925,841; June 22; Sp. p. 5781; Gaz. vol. 143; p. 1001.
- Robischung, H. B., Cloverdale, Mich., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable brake-head. No. 939,094; Nov. 2; Sp. p. 1367; Gaz. vol. 148; p. 223.
- Robison, C. S., Chicago, Ill. Water purifying or softening system. No. 917,139; Apr. 6; Sp. p. 374; Gaz. vol. 141; p. 65.

*Alphabetical list of patentees—Continued.*

- Robison, J. A., Nashville, Tenn., and E. McCurdy, New Albany, Ind. Treadle-governor. No. 932,580; Aug. 31; Sp. p. 6252; Gaz. vol. 145; p. 1081.
- Robotham, A. E., Nottingham, England. Perambulator. No. 919,956; Apr. 27; Sp. p. 6403; Gaz. vol. 141; p. 1094.
- Robson, C., Philadelphia, Pa. Baker's-oven lamp. No. 933,113; Sept. 7; Sp. p. 159; Gaz. vol. 146; p. 27.
- Robson, G., St. Kilda, Victoria, Australia. Pressure cut-off. No. 914,752; Mar. 9; Sp. p. 2320; Gaz. vol. 140; p. 389.
- Robson, J., Wallsend, assignor to Clarke, Chapman & Company, Limited, Gateshead, England. Continuous-cycle ammonia power or refrigerating apparatus. No. 913,165; Feb. 23; Sp. p. 4416; Gaz. vol. 139; p. 797.
- Robson, J., assignor to Clarke, Chapman & Company, Limited, Gateshead, England. Gas-engine and volatile-fluid-engine plant. No. 913,166; Feb. 23; Sp. p. 4419; Gaz. vol. 139; p. 797.
- Robson, F. W. (See Bickerton and Robson.)
- Robson, S. M., *et al.* (See Bryar, G., assignor.)
- Robst, A. E., *et al.*, executors. (See Guastavino, R.)
- Robuck, C. B., San Bernardino, Cal. Boot and shoe hanger. No. 930,887; Aug. 10; Sp. p. 2614; Gaz. vol. 145; p. 447.
- Roby, A. H., *et al.* (See Stewart, A. C., assignor.)
- Roby, F. F., Boston, Mass. Buttonhole-cutter. No. 942,519; Dec. 7; Sp. p. 1030; Gaz. vol. 149; p. 167.
- Roby, L. E., Peoria, Ill. Grain-drill. No. 936,741; Oct. 12; Sp. p. 2394; Gaz. vol. 147; p. 398.
- Roby, L. E., Peoria, Ill. Agricultural machine. No. 941,465; Nov. 30; Sp. p. 6666; Gaz. vol. 148; p. 1130.
- Roche, D. F., Jr., Newport, R. I. Hedge-trimmer. No. 914,882; Mar. 9; Sp. p. 2584; Gaz. vol. 140; p. 431.
- Roche, I. A., *et al.* (See Mosher, Roche, and Foston.)
- Roche, J., assignor to Eagle Lock Co., Terryville, Conn. Push-pin combination-lock. No. 918,200; Apr. 13; Sp. p. 2520; Gaz. vol. 141; p. 449.
- Roche, J., Terryville, assignor of one-fourth to W. E. Roche, Bridgeport, and one-fourth to P. W. Salmon, Terryville, Conn. Duplex match. No. 933,393; Sept. 7; Sp. p. 813; Gaz. vol. 146; p. 126.
- Roche, J. W., Arlington, N. J. Pipe-cleaning apparatus. No. 918,091; Apr. 13; Sp. p. 2302; Gaz. vol. 141; p. 413.
- Roche, W. E., *et al.* (See Roche, J., assignor.)
- Roche, W. J., New Bethlehem, Pa., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 923,893; June 8; Sp. p. 1771; Gaz. vol. 143; p. 295.
- Rochefort, H. (See Taylor and Rochefort.)
- Rochelle, F. W., assignor to Ivins, Dietz & Metzger Company, Philadelphia, Pa. Loom for weaving cut pile fabrics. No. 918,371; Apr. 13; Sp. p. 2854; Gaz. vol. 141; p. 505.
- Rochelle, F. W., assignor to Ivins, Dietz & Metzger Company, Philadelphia, Pa. Stop-motion device for doubling and twisting machines. No. 927,285; July 6; Sp. p. 1194; Gaz. vol. 144; p. 196.
- Rochelle, G. I. (See Mason and Rochelle.)
- Rochester Cooperage Company. (See Houlihan, V. J., assignor.)
- Rochester Stamping Co. (See Swan, A. H. S., assignor.)
- Rochevot, J. W. (See Boulton, A. E., assignor.)
- Rochford, J. P., Pawtucket, R. I. Machine for curling hat-brims. No. 911,615; Feb. 9; Sp. p. 1172; Gaz. vol. 139; p. 222.
- Rochford, M. B. (See Rochford, T. J., assignor.)
- Rochford, T. J., assignor to M. B. Rochford, Chicago, Ill. Cleaner for windows. No. 944,245; Dec. 21; Sp. p. 4729; Gaz. vol. 149; p. 810.
- Röchling, H., and W. Rodenhauser, Völklingen, assignors to Gröndal Kjellin Company Limited, London, England. Electric furnace. No. 939,095; Nov. 2; Sp. p. 1371; Gaz. vol. 148; p. 223.
- Rochow, F. J., Brooklyn, N. Y. Compressor, vacuum-pump, and thelike. No. 921,164; May 11; Sp. p. 2174; Gaz. vol. 142; p. 383.
- Rock, A. L., Yokohama, Japan, assignor to A. A. Vantine & Co., New York, N. Y. Pottery ornamentation. No. 912,171; Feb. 9; Sp. p. 2335; Gaz. vol. 139; p. 403.
- Rock, F. W., assignor of one-half to E. A. Field, Detroit, Mich. Air-hose coupling. No. 941,652; Nov. 30; Sp. p. 7052; Gaz. vol. 148; p. 1191.
- Rock Island Plow Company. (See Henderson, N. O., assignor.)
- Rock Island Plow Company. (See Johnson, W. E., assignor.)
- Rock Island Specialty Manufacturing Company. (See Galloway and Trevor, assignors.)
- Rock, T. O. (See Cleveland, A., assignor.)
- Rockenhauser, K. W., New York, and H. F. Fischer, Corona, assignors to P. Prybil Estate, New York, N. Y. Lathe-head. No. 929,789; Aug. 3; Sp. p. 333; Gaz. vol. 145; p. 57.
- Rockey, W. S., and H. Eldridge, New York, N. Y. Protecting molten metals. No. 943,161; Dec. 14; Sp. p. 2439; Gaz. vol. 149; p. 414.
- Rockey, W. S., and H. Eldridge, New York, N. Y. Protecting molten metals. No. 943,639; Dec. 14; Sp. p. 3483; Gaz. vol. 149; p. 579.
- Rockford Drilling Machine Company. (See Milne, R., assignor.)
- Rockford Machine & Shuttle Company. (See Johnson, W. B., assignor.)
- Rockliff, W. A., and J. W. Booth, Salt Lake City, Utah. Fume-arrester. No. 922,516; May 25; Sp. p. 4975; Gaz. vol. 142; p. 885.
- Rockola, G. A., Birtle, Manitoba, Canada. Pump. No. 909,676; Jan. 12; Sp. p. 2504; Gaz. vol. 138; p. 444.
- Rockstroh, C. F., Richmond Hill, assignor to Rockstroh Manufacturing Co., New York, N. Y. Spacer for printing-plate holders or beds. No. 910,317; Jan. 19; Sp. p. 3855; Gaz. vol. 138; p. 694.
- Rockstroh, M., Klein-Sedlitz, near Pirna, Germany. Friction-clutch mechanism for printing, stamping, and die presses and the like. No. 931,651; Aug. 17; Sp. p. 4258; Gaz. vol. 145; p. 727.
- Rockstroh, M., Klein-Sedlitz, near Pirna, Germany. Construction of reciprocating beds for cylinder printing-presses. No. 935,550; Sept. 28; Sp. p. 5199; Gaz. vol. 146; p. 912.
- Rockstroh Manufacturing Co. (See Rockstroh, C. F., assignor.)
- Rockwell, A. F., assignor to New Departure Manufacturing Company, Bristol, Conn. Antifriction-bearing. No. 921,464; May 11; Sp. p. 2815; Gaz. vol. 142; p. 484.
- Rockwell, A. F., assignor to New Departure Manufacturing Company, Bristol, Conn. Steering mechanism for vehicles. No. 922,044; May 18; Sp. p. 4019; Gaz. vol. 142; p. 703.
- Rockwell, A. F., assignor to New Departure Manufacturing Company, Bristol, Conn. Sizing and shaping. No. 926,898; July 6; Sp. p. 398; Gaz. vol. 144; p. 65.
- Rockwell, A. F., assignor to New Departure Manufacturing Company, Bristol, Conn. Coasting-hub. No. 932,328; Aug. 24; Sp. p. 5711; Gaz. vol. 145; p. 974.
- Rockwell, A. F., assignor to New Departure Manufacturing Company, Bristol, Conn. Vehicle. No. 942,219; Dec. 7; Sp. p. 410; Gaz. vol. 149; p. 63.
- Rockwell, A. F., assignor to New Departure Manufacturing Company, Bristol, Conn. Variable-speed mechanism. No. 942,220; Dec. 7; Sp. p. 413; Gaz. vol. 149; p. 63.
- Rockwell, A. F., assignor to New Departure Manufacturing Company, Bristol, Conn. Variable-speed coasting and braking hub. No. 942,520; Dec. 7; Sp. p. 1032; Gaz. vol. 149; p. 167.
- Rockwell, B. C., Malvern, Ark. Connecting-slide. No. 927,601; July 13; Sp. p. 1859; Gaz. vol. 144; p. 328.
- Rockwell, D. B., Jr., Los Angeles, Cal. Wave-motor. No. 913,770; Mar. 2; Sp. p. 198; Gaz. vol. 140; p. 33.
- Rockwell, E. C., *et al.* (See Lewis, S. T., assignor.)
- Rockwell, L. A. (See Linden and Rockwell.)
- Rockwell, W. A., Harriman, Tenn. Seed-planter. No. 912,891; Feb. 16; Sp. p. 3860; Gaz. vol. 139; p. 681.
- Rockwell, W. S., assignor to W. S. Rockwell Company, New York, N. Y. Crucible-furnace. No. 932,906; Aug. 31; Sp. p. 6911; Gaz. vol. 145; p. 1187.
- Rockwell, W. S., assignor to W. S. Rockwell Company, New York, N. Y. Annealing and hardening furnace. No. 940,280; Nov. 16; Sp. p. 4064; Gaz. vol. 148; p. 689.
- Rockwood, G. I., Worcester, Mass. Fusible link. No. 911,162; Feb. 2; Sp. p. 279; Gaz. vol. 139; p. 49.
- Rockwood, G. I., Worcester, Mass. Dry-pipe valve. No. 914,883; Mar. 9; Sp. p. 2584; Gaz. vol. 140; p. 431.
- Rockwood, G. I., Worcester, Mass. Automatic sprinkler. No. 927,430; July 6; Sp. p. 1464; Gaz. vol. 144; p. 243.
- Rockwood, G. I., Worcester, Mass. Dry-pipe valve. No. 929,710; Aug. 3; Sp. p. 147; Gaz. vol. 145; p. 26.
- Rodd, R. J., Cuyahoga Falls, Ohio. Nut-tapping machine. No. 928,333; July 20; Sp. p. 3428; Gaz. vol. 144; p. 603.
- Rodebaugh, W. F., Cedarville, Ill. Wagon-box. No. 913,237; Feb. 23; Sp. p. 4577; Gaz. vol. 139; p. 821.
- Rodefeld, F. H. W., Indianapolis, Ind. Machine for forming toe-clips on horseshoes. No. 918,700; Apr. 20; Sp. p. 3631; Gaz. vol. 141; p. 643.
- Rodenbach, C. H. (See Cleveland, H. S., assignor.)
- Rodenhausen, W., Philadelphia, Pa. Dumping-wagon. No. 927,813; July 13; Sp. p. 2308; Gaz. vol. 144; p. 398.
- Rodenhauser, W. (See Röchling and Rodenhauser.)
- Roderick, C., Woodstock, assignor to Oliver Typewriter Company, Chicago, Ill. Type-writing machine. No. 932,176; Aug. 24; Sp. p. 5416; Gaz. vol. 145; p. 924.
- Roderwald, R. (See Linde, Welde, Fickler, and Roderwald.)
- Rodger Ballast Car Company. (See Hart, H. S., assignor.)
- Rodgers, H. B., and M. Schwartz, Chambersburg, Pa. Carpet-molding. No. 938,077; Oct. 26; Sp. p. 5187; Gaz. vol. 147; p. 888.



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- Rodgers, J. D., Georgetown, Ky. Fence-post. No. 922,193; May 18; Sp. p. 4310; Gaz. vol. 142; p. 752.
- Rodgers, R. J. (See Burke, Rodgers, and Perkins.)
- Rodgers, R. M., New York, N. Y. Automatic lock for hoisting apparatus. No. 934,759; Sept. 21; Sp. p. 3583; Gaz. vol. 146; p. 624.
- Rodgers, W. J., Alva, Wyo. Stock-magazine for single-shot rifles. No. 919,641; Apr. 27; Sp. p. 5754; Gaz. vol. 141; p. 990.
- Rodiger, W., Chicago, Ill. Inkstand. No. 922,957; May 25; Sp. p. 5905; Gaz. vol. 142; p. 1029.
- Rodman, H., Pittsburg, Pa., assignor, by mesne assignments, to Westinghouse Storage Battery Company. Treating or impregnating Planté negative plates. No. 944,822; Dec. 28; Sp. p. 6027; Gaz. vol. 149; p. 1037.
- Rodman, T. H., assignor to G. A. E. and F. W. Kohler, Chicago, Ill. Electrical polishing device. No. 928,702; July 20; Sp. p. 4156; Gaz. vol. 144; p. 724.
- Rodman, W. P., Brooklyn, N. Y. Bearing. No. 930,232; Aug. 3; Sp. p. 1253; Gaz. vol. 145; p. 207.
- Rodney, M., Iowa Falls, Iowa. Window-sash fastener. No. 916,956; Mar. 30; Sp. p. 6664; Gaz. vol. 140; p. 1187.
- Rodrigues, M. P. (See Hahn, H., assignor.)
- Rodriguez F., *et al.* (See Waring, J. B., assignor.)
- Roe, C. O., Wesley, Iowa. Machine for cooking shelled peanuts, &c. No. 940,557; Nov. 16; Sp. p. 4696; Gaz. vol. 148; p. 782.
- Roe, E. S. (See Markham and Roe.)
- Roe, J. M., assignor to Under-Feed Stoker Company of America, Chicago, Ill. Automatic stoker. No. 913,771; Mar. 2; Sp. p. 200; Gaz. vol. 140; p. 33.
- Roe, J. M., Toledo, Ohio, assignor of one-half to T. F. Cooke, Buffalo, N. Y. Stock-distributor for blast-furnaces. No. 926,357; June 29; Sp. p. 6848; Gaz. vol. 143; p. 1205.
- Roe, W. A., and W. H. Antes, assignors to Des Moines Casket Company, Des Moines, Iowa. Adjustable casket-clamp for hearses or funeral cars. No. 931,490; Aug. 17; Sp. p. 3935; Gaz. vol. 145; p. 679.
- Roebuck, A. C., Chicago, Ill. Shuttle mechanism. No. 909,677; Jan. 12; Sp. p. 2505; Gaz. vol. 138; p. 444.
- Roebuck, A. C., Chicago, Ill. Film-reeling mechanism. No. 919,773; Apr. 27; Sp. p. 6013; Gaz. vol. 141; p. 1034.
- Roebuck, A. C., Chicago, Ill. Kinetoscope. No. 927,875; July 13; Sp. p. 2442; Gaz. vol. 144; p. 417.
- Roebuck, A. C., Chicago, Ill. Kinetoscope. No. 939,634; Nov. 9; Sp. p. 2630; Gaz. vol. 148; p. 433.
- Roed, O., assignor to J. G. MacCune, Minneapolis, Minn. Kitchen-reminder. No. 914,364; Mar. 2; Sp. p. 1520; Gaz. vol. 140; p. 234.
- Roed, O. A., Minneapolis, Minn. Apparatus for elevating water. No. 938,078; Oct. 26; Sp. p. 5188; Gaz. vol. 147; p. 888.
- Roeder, W. M., Bloomington, Ill. Hot-air moistener and deflector. No. 928,703; July 20; Sp. p. 4158; Gaz. vol. 144; p. 724.
- Roeh, J., assignor to Crystallized Milk Co., Spokane, Wash. Desiccating apparatus. No. 927,169; July 6; Sp. p. 971; Gaz. vol. 144; p. 158.
- Roehl, C. E. (See Hilborn and Roehl.)
- Roehlk, E. C. (See Roehlk, L. C. and E. C.)
- Roehlk, L. C. and E. C., St. Louis, Mo. Tripod. No. 911,544; Feb. 2; Sp. p. 990; Gaz. vol. 139; p. 173.
- Roehm, J. F., assignor to W. B. Roehm, Kansas City, Mo. Wrench. No. 926,828; July 6; Sp. p. 261; Gaz. vol. 144; p. 41.
- Roehm, L., Chicago, Ill. Hanger. No. 917,140; Apr. 6; Sp. p. 376; Gaz. vol. 141; p. 65.
- Roehm, W. B. (See Roehm, J. F., assignor.)
- Roehr, L., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Machine for welding chain-links. No. 923,582; June 1; Sp. p. 1054; Gaz. vol. 143; p. 161.
- Roehrig, B. F., assignor to G. Reichart, San Diego, Cal. Kerosene incandescent lamp. No. 916,889; Mar. 30; Sp. p. 6510; Gaz. vol. 140; p. 1163.
- Roesch, A. (See Evans, J. A., assignor.)
- Roesch, A., New York, assignor to C. J. Tagliabue, Brooklyn, N. Y. Bulb-protector for thermometers. No. 924,276; June 8; Sp. p. 2581; Gaz. vol. 143; p. 420.
- Roesch, G. E., and F. F. Wright, Aurora, Ill. Metal-shearing machine. No. 931,220; Aug. 17; Sp. p. 3376; Gaz. vol. 145; p. 586.
- Roesner, S., Chicago, Ill. Flash-light apparatus for photographic purposes. No. 927,876; July 13; Sp. p. 2444; Gaz. vol. 144; p. 418.
- Roessler and Hasslacher Chemical Co. (See Mansolf, P., assignor.)
- Roessler & Hasslacher Chemical Company. (See Brindley, G. F., assignor.)
- Roessler & Hasslacher Chemical Company. (See Bueb, J., assignor.)
- Roessler & Hasslacher Chemical Company. (See Foregger, R. von, assignor.)
- Roessler, W., Olean, N. Y. Electric-light bracket. No. 911,447; Feb. 2; Sp. p. 809; Gaz. vol. 139; p. 141.
- Roethlisberger, R., Columbus Grove, Ohio. Hog-ring. No. 909,229; Jan. 12; Sp. p. 1638; Gaz. vol. 138; p. 295.
- Roethlisberger, R., Columbus Grove, Ohio. Hog-ring. No. 928,155; July 13; Sp. p. 2989; Gaz. vol. 144; p. 511.
- Roewer, F. J. H., Hamburg, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Densifying a nitro-hydrocarbon composition. No. 912,733; Feb. 16; Sp. p. 3577; Gaz. vol. 139; p. 632.
- Roff, C. H., Madalin, N. Y. Nut-lock. No. 938,707; Nov. 2; Sp. p. 563; Gaz. vol. 148; p. 88.
- Roffly, J. T., Chicago, Ill., assignor, by mesne assignments, to H. B. Lefkowitz, New York, N. Y. Advertisement-displaying apparatus. No. 940,281; Nov. 16; Sp. p. 4067; Gaz. vol. 148; p. 689.
- Roger, J. H., Glasgow, Scotland. Ball used for golf and like games. No. 920,653; May 4; Sp. p. 1131; Gaz. vol. 142; p. 184.
- Roger, J. P., New York, N. Y. Window-balcony. No. 924,189; June 8; Sp. p. 2385; Gaz. vol. 143; p. 391.
- Rogers, B. F. (See Nugent, M., assignor.)
- Rogers, C., and G. T. Parker, Orange, N. J.; said Parker assignor to said Rogers. Lamp for road-vehicles. No. 929,711; Aug. 3; Sp. p. 149; Gaz. vol. 145; p. 27.
- Rogers, C. E., New York, N. Y. Window-receptacle. No. 944,212; Dec. 21; Sp. p. 4662; Gaz. vol. 149; p. 799.
- Rogers, F. A., Atwood, Kans. Engine-starter. No. 914,308; Mar. 2; Sp. p. 1386; Gaz. vol. 140; p. 215.
- Rogers, G. D., Gloucester, Mass. Electric separator. No. 940,282; Nov. 16; Sp. p. 4069; Gaz. vol. 148; p. 690.
- Rogers, G. R., New York, N. Y. Shock-absorber. No. 910,863; Jan. 26; Sp. p. 4965; Gaz. vol. 138; p. 896.
- Rogers, G. R., Racoon, Ind. Silo-packer. No. 931,090; Aug. 17; Sp. p. 3090; Gaz. vol. 145; p. 542.
- Rogers, H. C., Estes Park, Colo. Septic tank. No. 917,663; Apr. 6; Sp. p. 1358; Gaz. vol. 141; p. 239.
- Rogers, J. (See Hunt, C., assignor.)
- Rogers, J., deceased; J. Goldsword, administrator, assignor to Cleveland-Akron Bag Company, Cleveland, Ohio. Paper-bag machine. No. 928,885; July 20; Sp. p. 4515; Gaz. vol. 144; p. 787.
- Rogers, J. D. (See Putnam, G. V., assignor.)
- Rogers, J. F., Harrisonville, Mo. Apparatus for the manufacture of ice. No. 932,329; Aug. 24; Sp. p. 5713; Gaz. vol. 145; p. 975.
- Rogers, J. H., Hyattsville, Md. Aeroplane. No. 924,833; June 15; Sp. p. 3737; Gaz. vol. 143; p. 639.
- Rogers, J. P., Topeka, Kans. Reinforced concrete manhole-cover. No. 908,805; Jan. 5; Sp. p. 776; Gaz. vol. 138; p. 122.
- Rogers, J. R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Linotype-machine. No. 919,957; Apr. 27; Sp. p. 6404; Gaz. vol. 141; p. 1094.
- Rogers, J. R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 924,000; June 8; Sp. p. 1983; Gaz. vol. 143; p. 329.
- Rogers, J. R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 924,001; June 8; Sp. p. 1985; Gaz. vol. 143; p. 329.
- Rogers, J. R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Slug-casting machine. No. 924,939; June 15; Sp. p. 3950; Gaz. vol. 143; p. 675.
- Rogers, J. R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Linotype-machine. No. 925,842; June 22; Sp. p. 5783; Gaz. vol. 143; p. 1001.
- Rogers, J. R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 925,843; June 22; Sp. p. 5784; Gaz. vol. 143; p. 1001.
- Rogers, J. R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Keyboard mechanism for line-casting machines, &c. No. 925,844; June 22; Sp. p. 5786; Gaz. vol. 143; p. 1001.
- Rogers, J. R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Linotype-machine. No. 930,693; Aug. 10; Sp. p. 2192; Gaz. vol. 145; p. 383.
- Rogers, J. R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Keyboard mechanism for line-casting machines. No. 939,325; Nov. 9; Sp. p. 1930; Gaz. vol. 148; p. 329.
- Rogers, J. R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 942,845; Dec. 7; Sp. p. 1681; Gaz. vol. 149; p. 274.
- Rogers, J. W. (See McIntyre and Rogers.)
- Rogers, K. C., Little Rock, Ark. Boot or shoe heel. No. 930,990; Aug. 10; Sp. p. 2845; Gaz. vol. 145; p. 480.
- Rogers, L. A., Chevy Chase, D. C. Device for spraying paraffin on butter-tubs. No. 914,605; Mar. 9; Sp. p. 1997; Gaz. vol. 140; p. 331.
- Rogers, L. H., New York, N. Y. Rotary air and gas pump. No. 944,912; Dec. 28; Sp. p. 6206; Gaz. vol. 149; p. 1068.
- Rogers, L. H., New York, N. Y. Rotary air or gas pump. No. 944,913; Dec. 28; Sp. p. 6211; Gaz. vol. 149; p. 1068.
- Rogers, N. J. (See Roper, W. L., assignor.)

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- Rogers, R. H., Schenectady, N. Y., assignor to General Electric Company. Method of and means for regulating the speed of electric motors. No. 942,463; Dec. 7; Sp. p. 914; Gaz. vol. 149; p. 147.
- Rogers, S., Fort Payne, Ala. Clip for swingletrees. No. 917,899; Apr. 13; Sp. p. 1894; Gaz. vol. 141; p. 344.
- Rogers, S. H., assignor of one-half to W. J. Little, Macon, Ga. Toy. No. 931,221; Aug. 17; Sp. p. 3379; Gaz. vol. 145; p. 587.
- Rogers, W. A., assignor of one-third to D. Reed and one-third to B. F. Willett, Woodward, Okla. Grapple. No. 923,299; June 1; Sp. p. 444; Gaz. vol. 143; p. 62.
- Rogers, W. R., and C. Vogel, St. Louis, Mo. Door-operating means. No. 935,410; Sept. 28; Sp. p. 4893; Gaz. vol. 146; p. 865.
- Roggenburg, I., New York, N. Y. Bow-fastening device. No. 944,465; Dec. 28; Sp. p. 5227; Gaz. vol. 149; p. 915.
- Roggensack, L. A., Balfour, N. D. Automatic stock-feeding device. No. 938,608; Nov. 2; Sp. p. 375; Gaz. vol. 148; p. 56.
- Roggero, E., Genoa, Italy. Hot-water boiler. No. 929,496; July 27; Sp. p. 5780; Gaz. vol. 144; p. 1014.
- Rogler, F. W., Vienna, Austria-Hungary. Ring-valve. No. 921,892; May 18; Sp. p. 3703; Gaz. vol. 142; p. 653.
- Rohan, J. M. and M., Kadoka, S. D. Guide for traction-engines. No. 921,004; May 11; Sp. p. 1852; Gaz. vol. 142; p. 328.
- Rohan, M. (See Rohan, J. M. and M.)
- Rohde, A. W. B. S., Chicago, Ill. Machine for cutting sheet metal into irregular forms. No. 937,865; Oct. 26; Sp. p. 4729; Gaz. vol. 147; p. 818.
- Röhlfig, J. M. (See Frame and Röhlfig.)
- Rohr, M. von. (See Straubel and Rohr.)
- Rohr, M. von, assignor to Firm of C. Zeiss, Jena, Germany. Optical cystoscope system. No. 940,894; Nov. 23; Sp. p. 5425; Gaz. vol. 148; p. 919.
- Rohr, M. von, assignor to Firm of C. Zeiss, Jena, Germany. Lens system. No. 940,895; Nov. 23; Sp. p. 5426; Gaz. vol. 148; p. 919.
- Rohr, P. A., Philadelphia, Pa. Tooth-brush case. No. 918,372; Apr. 13; Sp. p. 2854; Gaz. vol. 141; p. 505.
- Rohrbach, A., Erfurt, Germany, W. Dieckmann, A. Gribling, and L. Grote, London, England. Spray-burner. No. 943,567; Dec. 14; Sp. p. 3281; Gaz. vol. 149; p. 553.
- Röhrbacher, E. J., Blaine, Wash. Hose connection for wheel-tires, &c. No. 928,797; July 20; Sp. p. 4338; Gaz. vol. 144; p. 756.
- Röhrbacher, E. J., Blaine, Wash. Air-compressor. No. 936,813; Oct. 12; Sp. p. 2527; Gaz. vol. 147; p. 422.
- Rohrer, C. A. (See Newman, A. T., assignor.)
- Rohrer, I. W., Jr., Lancaster, Pa. Baling-press. No. 944,823; Dec. 28; Sp. p. 6029; Gaz. vol. 149; p. 1037.
- Rojas, F. A., New York, N. Y. Combined stick-pin and pencil. No. 918,475; Apr. 13; Sp. p. 3066; Gaz. vol. 141; p. 539.
- Roland, T. H., assignor of one-fifth to A. Tweel, Huntington, W. Va. Telephone pay-station. No. 922,045; May 18; Sp. p. 4025; Gaz. vol. 142; p. 703.
- Rolfe, C. A. (See Rolfe and Fox, assignors.)
- Rolfe, C. A., Adrian, Mich., assignor, by mesne assignments, to Rolfe Electric Co., Rochester, N. Y. Electrical protective device. No. 920,778; May 4; Sp. p. 1383; Gaz. vol. 142; p. 224.
- Rolfe, C. D., and C. F. Fox, Rochester, N. Y., assignors to C. A. Rolfe, Redlands, Cal. Switch. No. 914,515; Mar. 9; Sp. p. 1814; Gaz. vol. 140; p. 310.
- Rolfe Electric Co. (See Rolfe, C. A., assignor.)
- Rolfes, G. H., assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Lantern. No. 913,981; Mar. 2; Sp. p. 700; Gaz. vol. 140; p. 109.
- Rolfson-Schmidt, S., Huntington, N. Y. Bottle. No. 934,359; Sept. 14; Sp. p. 2800; Gaz. vol. 146; p. 466.
- Rolfson-Schmidt, S., Fairground, N. Y., assignor to Fillnot Company. Bottle. No. 934,358; Sept. 14; Sp. p. 2798; Gaz. vol. 146; p. 466.
- Rolland, F. W., Jr., Chicago, Ill. Web-controller for presses. No. 925,949; June 22; Sp. p. 5992; Gaz. vol. 143; p. 1035.
- Rollefson, C. J., Elsworth, Wis. Type-writing machine. No. 911,842; Feb. 9; Sp. p. 1595; Gaz. vol. 139; p. 296.
- Roller, N. J., St. Louis, Mo. Wearing-apparel. No. 942,933; Dec. 14; Sp. p. 1930; Gaz. vol. 149; p. 336.
- Roller, P. S., Mount Jackson, Va. Track-gage. No. 926,770; July 6; Sp. p. 128; Gaz. vol. 144; p. 21.
- Rollins, C. S., Oakland, Cal. Tea-strainer. No. 913,055; Feb. 23; Sp. p. 4200; Gaz. vol. 139; p. 760.
- Rollins, E. C., Call, assignor to W. H. Newton, Kirbyville, Tex. Foldable shipping-crate. No. 936,946; Oct. 12; Sp. p. 2786; Gaz. vol. 147; p. 466.
- Rollins, E. C., assignor of one-half to F. M. Roberts, Call, Tex. Planter and fertilizer-dropper. No. 945,004; Dec. 28; Sp. p. 6391; Gaz. vol. 149; p. 1096.
- Rollins, G. D., Philadelphia, Pa. Metallic packing for ammonia-machines and the like. No. 934,629; Sept. 21; Sp. p. 3343; Gaz. vol. 146; p. 582.
- Rollins, G. E., East Bridgeport, Mass., assignor to Brockton Folding Machine Company. Welt. No. 927,078; July 6; Sp. p. 801; Gaz. vol. 144; p. 128.
- Rollo, J., et al. (See Gurney, A. J., assignor.)
- Roloff, M., Hagen, Germany. Iron electrode. No. 934,839; Sept. 21; Sp. p. 3748; Gaz. vol. 146; p. 651.
- Rolph, B. M., Franklin Grove, Ill. Ditching-machine. No. 918,373; Apr. 13; Sp. p. 2855; Gaz. vol. 141; p. 506.
- Rom, C. F., Cincinnati, Ohio. Trunk-tray support. No. 937,866; Oct. 26; Sp. p. 4732; Gaz. vol. 147; p. 818.
- Roman, B., New York, N. Y. Vehicle-indicator. No. 918,701; Apr. 20; Sp. p. 3633; Gaz. vol. 141; p. 644.
- Roman, E. (See Mikesch and Roman.)
- Roman, S., et al. (See McFarland, G. L., assignor.)
- Roman Stone Company. (See Heighington, J. B., assignor.)
- Rombout, A. (See Brennan, F. P., assignor.)
- Romeis, C. P. (See Scherer, R., assignor.)
- Romfo, H. C. (See Olson, O. J., assignor.)
- Romig, R. W., Pittsburg, Pa., assignor to Fairbanks Company, New York, N. Y. Automatic cut-off for weigh-scales. No. 940,616; Nov. 16; Sp. p. 4804; Gaz. vol. 148; p. 801.
- Romme, W. S., assignor of one-half to W. I. Plunkett, New York, N. Y. Aeroplane. No. 920,085; Apr. 27; Sp. p. 6689; Gaz. vol. 141; p. 1136.
- Rommel, G., and E. R. Nebeling, New York, N. Y. Non-refillable bottle. No. 912,892; Feb. 16; Sp. p. 3862; Gaz. vol. 139; p. 681.
- Romshe, J., Cincinnati, Ohio. Display-rack. No. 933,851; Sept. 14; Sp. p. 1818; Gaz. vol. 146; p. 300.
- Romstaedt, K., Berlin, Germany. Air vessel for water-supply pipes. No. 942,666; Dec. 7; Sp. p. 1319; Gaz. vol. 149; p. 216.
- Ronan, S. J. (See Haszinger and Ronan.)
- Ronceray, E. (See Bonvillain and Ronceray.)
- Ronconi, R., New York, N. Y., assignor to L. H. Nelson, Portland, Me. Collapsible box. (Reissue.) No. 12,936; Apr. 6; Sp. p. 1535; Gaz. vol. 141; p. 267.
- Roney, T. F., Providence, R. I., assignor to Eclipse Holding Company. Bobbin-holder. No. 937,468; Oct. 19; Sp. p. 3924; Gaz. vol. 147; p. 667.
- Rood, C. W., assignor to D. C. Brinley, Britt, Iowa. Ditching-machine. No. 926,136; June 29; Sp. p. 6381; Gaz. vol. 143; p. 1132.
- Rood, C. W., Britt, Iowa, assignor to F. C. Austin, Chicago, Ill. Propelling means for trenching-machines. No. 935,059; Sept. 28; Sp. p. 4191; Gaz. vol. 146; p. 751.
- Roek, E. H., Black Hawk, Miss. Cattle-yoke. No. 915,115; Mar. 16; Sp. p. 3024; Gaz. vol. 140; p. 534.
- Rooks, V. H., Bowdon, Ga. Cord-holder. No. 922,337; May 18; Sp. p. 4592; Gaz. vol. 142; p. 798.
- Roome, W. G., Los Angeles, Cal., assignor to Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. No. 929,654; May 4; Sp. p. 1132; Gaz. vol. 142; p. 184.
- Roome, W. G., Los Angeles, Cal., assignor to Union Switch and Signal Company, Swissvale, Pa. Electric railway. No. 921,740; May 18; Sp. p. 3386; Gaz. vol. 142; p. 603.
- Rooney, E. H., assignor to Whittin Machine Works, Whitinsville, Mass. Draw-box. No. 920,655; May 4; Sp. p. 1139; Gaz. vol. 142; p. 184.
- Rooney, E. H., assignor to Whittin Machine Works, Whitinsville, Mass. Draw-box. (Reissue.) No. 13,041; Nov. 16; Sp. p. 4592; Gaz. vol. 148; p. 815.
- Rooney, L. J. F., New York, N. Y. Cleat for shoes. No. 912,172; Feb. 9; Sp. p. 2337; Gaz. vol. 139; p. 403.
- Roop, A., assignor of three-fourths to F. Smits, Aberdeen, Wash. Arm-rest. No. 915,481; Mar. 16; Sp. p. 3754; Gaz. vol. 140; p. 652.
- Roop, C. Y., Kansas City, Mo. Oil-burner. No. 926,137; June 29; Sp. p. 6386; Gaz. vol. 143; p. 1133.
- Roop, W. D., Marion, Ind. Gripping device. No. 944,052; Dec. 21; Sp. p. 4345; Gaz. vol. 149; p. 749.
- Roos, G. M., Waverly, assignor of one-half to L. G. Rose, Minneapolis, Minn. Sugar-beet seeder. No. 939,635; Nov. 9; Sp. p. 2632; Gaz. vol. 148; p. 434.
- Roos, J. B. (See Kohn and Roos.)
- Roosa, F. T. (See Wilson, H., assignor.)
- Roost, H., Le Locle, Switzerland. Winding and hand-setting mechanism for watches and the like. No. 927,877; July 13; Sp. p. 2446; Gaz. vol. 144; p. 418.
- Root, A. E., assignor of one-half to W. M. Layton, Pleasanton, Kans. Combination tenoning and boring machine. No. 922,338; May 18; Sp. p. 4593; Gaz. vol. 142; p. 798.



*Alphabetical list of patentees—Continued.*

- Root, C. L. (See Holley and Root.)  
 Root, F. N., Kalamazoo, Mich. Road-machine. No. 934,630; Sept. 21; Sp. p. 3344; Gaz. vol. 146; p. 582.  
 Root, H. C., Westgrove, Pa. Milk-heater. No. 939,636; Nov. 9; Sp. p. 2634; Gaz. vol. 148; p. 434.  
 Root, J. H. (See Hanna, F. W., assignor.)  
 Root, O. H., Berkeley, and A. H. Mooser, Grass Valley, Cal. Slip-holding clip. No. 934,936; Sept. 21; Sp. p. 3946; Gaz. vol. 146; p. 684.  
 Root, R. R., Glenville, Ohio. Heat-regulator. No. 913,982; Mar. 2; Sp. p. 700; Gaz. vol. 140; p. 109.  
 Root, W. L. (See Lisch and Root.)  
 Roovers, A. W., Brooklyn, N. Y. Coin-controlled electrical apparatus. No. 912,734; Feb. 16; Sp. p. 3578; Gaz. vol. 139; p. 632.  
 Roovers, A. W., New York, N. Y. Engraving or duplicating machine. No. 940,730; Nov. 23; Sp. p. 5069; Gaz. vol. 148; p. 865.  
 Roper & Company, C. F. (See Bowers, O. A., assignor.)  
 Roper, G. M., Hickman, Ky. Cultivator. No. 941,589; Nov. 30; Sp. p. 6911; Gaz. vol. 148; p. 1170.  
 Roper, J. W., East Orange, N. J. Auxiliary horseshoe. No. 929,021; July 27; Sp. p. 4801; Gaz. vol. 144; p. 858.  
 Roper, W. L., Maplesville, assignor to N. J. Rogers, Tuscaloosa, Ala. Wagon-brake. No. 931,491; Aug. 17; Sp. p. 3936; Gaz. vol. 145; p. 679.  
 Roper, W. L., Maplesville, assignor to N. J. Rogers, Tuscaloosa, Ala. Hame-fastener. No. 931,652; Aug. 17; Sp. p. 4260; Gaz. vol. 145; p. 727.  
 Rorabaw, J. M., Diamond, Mo. Stone-gatherer. No. 940,558; Nov. 16; Sp. p. 4698; Gaz. vol. 148; p. 782.  
 Rorabeck, S. H., Eaton Rapids, Mich. Animal-cover. No. 935,166; Sept. 28; Sp. p. 4409; Gaz. vol. 146; p. 787.  
 Rorarius, M. (See Klemm and Rorarius.)  
 Rorke, E. F., Chicago, Ill. Labeling-machine. No. 940,731; Nov. 23; Sp. p. 5077; Gaz. vol. 148; p. 866.  
 Rosamyer, H., Rochester, Pa. Backboard for gas-stoves and fireplaces. No. 909,678; Jan. 12; Sp. p. 2507; Gaz. vol. 138; p. 445.  
 Rosan, J. H. D., New York, N. Y. Wheel-lift. No. 915,889; Mar. 23; Sp. p. 4595; Gaz. vol. 140; p. 816.  
 Roscoe, D. L., U. S. Army. Gun-sight. No. 909,941; Jan. 19; Sp. p. 3045; Gaz. vol. 138; p. 564.  
 Roscoe, D. L., assignor of one-fourth to J. Pitcher, U. S. Army, and one-fourth to C. A. Mason, Washington, D. C. Computing device. No. 909,823; Jan. 12; Sp. p. 2794; Gaz. vol. 138; p. 492.  
 Rose, A. G., Jr., assignor of one-half to T. E. Dever, Milwaukee, Wis. Elevator-locking device. No. 911,765; Feb. 9; Sp. p. 1462; Gaz. vol. 139; p. 272.  
 Rose, A. N., New York, N. Y. Water-cooler. No. 935,060; Sept. 28; Sp. p. 4193; Gaz. vol. 146; p. 751.  
 Rose, C. A., assignor of one-third to E. J. Elander and one-third to A. J. Kiofanda, Jr., Minneapolis, Minn. Duplicate sales-book holder. No. 915,482; Mar. 16; Sp. p. 3755; Gaz. vol. 140; p. 653.  
 Rose, D., *et al.* (See Jackson, G. A., assignor.)  
 Rose, E. C., Defiance, Ohio. Cooking utensil. No. 923,445; June 1; Sp. p. 752; Gaz. vol. 143; p. 111.  
 Rose, E. C., Defiance, Ohio. Sheet-metal crate. No. 929,022; July 27; Sp. p. 4802; Gaz. vol. 144; p. 858.  
 Rose, E. E. (See Varney and Rose.)  
 Rose, E. E., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-clamp. No. 931,345; Aug. 17; Sp. p. 3653; Gaz. vol. 145; p. 630.  
 Rose, E. E., Swissvale, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Strain-insulator for electric lines. No. 937,867; Oct. 26; Sp. p. 4734; Gaz. vol. 147; p. 818.  
 Rose, E. F., Atchison, Kans. Infant-holding strap for chairs and vehicles. No. 919,774; Apr. 27; Sp. p. 6016; Gaz. vol. 141; p. 1034.  
 Rose, E. H., Worcester, Mass. Scarf-holder. No. 931,147; Aug. 17; Sp. p. 3220; Gaz. vol. 145; p. 561.  
 Rose, E. H., assignor of one-half to F. J. Bullard, Worcester, Mass. Shade-roller. No. 930,233; Aug. 3; Sp. p. 1255; Gaz. vol. 145; p. 207.  
 Rose, F., Liverpool, England. Artificial tooth. No. 936,361; Oct. 12; Sp. p. 1574; Gaz. vol. 147; p. 269.  
 Rose, F. M., and O. Wolff, assignors to Alhambra Tile Company, Newport, Ky. Tile sign. No. 910,586; Jan. 26; Sp. p. 4438; Gaz. vol. 138; p. 809.  
 Rose, G. F., *et al.* (See Clifford, T. G., assignor.)  
 Rose, G. M., Jr., Nashville, Tenn. Railway cash-fare receipt. No. 920,182; May 4; Sp. p. 176; Gaz. vol. 142; p. 28.  
 Rose, H., assignor to Sheffield Car Company, Three Rivers, Mich. Timer for igniters or sparkers. No. 936,564; Oct. 12; Sp. p. 2040; Gaz. vol. 147; p. 336.  
 Rose, H. B., Buffalo, N. Y. Towel-rack. No. 909,679; Jan. 12; Sp. p. 2508; Gaz. vol. 138; p. 445.  
 Rose, J. (See Gibbs, I. A., assignor.)  
 Rose, J., Lancaster, Pa. Umbrella-frame. No. 912,491; Feb. 16; Sp. p. 3024; Gaz. vol. 139; p. 547.  
 Rose, J., Lancaster, Pa. Folding umbrella. No. 929,497; July 27; Sp. p. 5781; Gaz. vol. 144; p. 1014.  
 Rose, J., Lancaster, Pa. Umbrella-frame. No. 929,498; July 27; Sp. p. 5783; Gaz. vol. 144; p. 1014.  
 Rose, J. A., Hastings, Nebr. Washer and gasket cutter. No. 945,009; Dec. 28; Sp. p. 6402; Gaz. vol. 149; p. 1098.  
 Rose, J. C., Hickory Valley, Tenn., assignor to himself, W. R. McQuien, Louisville, Miss., and O. L. Tunstall, Evadale, Ark. Paint-pot. No. 916,023; Mar. 23; Sp. p. 4855; Gaz. vol. 140; p. 859.  
 Rose, J. M., Philadelphia, Pa., assignor to Merchant & Evans Co., Camden, N. J. Ventilator. No. 941,171; Nov. 23; Sp. p. 6022; Gaz. vol. 148; p. 1012.  
 Rose, L. G. (See Roos, G. M., assignor.)  
 Rose Manufacturing Company. (See Rose, S. S., assignor.)  
 Rose, O. G., Camp Meeker, Cal. Attachment for the horns of sound-reproducing instruments. No. 912,735; Feb. 16; Sp. p. 3583; Gaz. vol. 139; p. 632.  
 Rose, O. G., Camp Meeker, Cal. Sound-reproducing instrument. No. 916,603; Mar. 30; Sp. p. 5995; Gaz. vol. 140; p. 1075.  
 Rose, O. G., Camp Meeker, Cal. Cabinet for sound-reproducing apparatus. No. 916,604; Mar. 30; Sp. p. 5996; Gaz. vol. 140; p. 1076.  
 Rose, O. G., Camp Meeker, Cal. Sound-reproducing apparatus. No. 921,465; May 11; Sp. p. 2818; Gaz. vol. 142; p. 454.  
 Rose, P., Paris, France. Violin-tuning peg. No. 933,079; Oct. 26; Sp. p. 5192; Gaz. vol. 147; p. 889.  
 Rose, P., Berlin, Germany, assignor to General Electric Company. System of distribution. No. 928,219; July 13; Sp. p. 3131; Gaz. vol. 144; p. 534.  
 Rose, P., Berlin, Germany, assignor to General Electric Company. System of voltage regulation. No. 937,469; Oct. 19; Sp. p. 3925; Gaz. vol. 147; p. 668.  
 Rose, R. J. (See Barth, A., assignor.)  
 Rose, S. S., Santa Clara, assignor to Rose Manufacturing Company, San Jose, Cal. Steering mechanism for traction-engines. No. 918,914; Apr. 20; Sp. p. 4077; Gaz. vol. 141; p. 715.  
 Rose, W. H., Baltimore, Md., assignor to American Oil and Disinfectant Co., New York, N. Y. Disinfecting apparatus. No. 911,331; Feb. 2; Sp. p. 606; Gaz. vol. 139; p. 104.  
 Rose, W. L. (See Dinger, P., assignor.)  
 Rose, W. T. (See Hicks, P. S., assignor.)  
 Rosebery, H. C., Taro, Va. Paper-roll holder. No. 940,364; Nov. 16; Sp. p. 4252; Gaz. vol. 148; p. 717.  
 Roseboom, J. B. (See Gowing, F. J., assignor.)  
 Roseland, T. C., assignor to F. R. Ensminger, Gilman, Iowa. Seed-dropping mechanism for corn-planters. No. 908,806; Jan. 5; Sp. p. 778; Gaz. vol. 138; p. 123.  
 Rosen, J. A. (See Hult, J. A., assignor.)  
 Rosen, J. G. (See Sanders, A., assignor.)  
 Rosenbach, J. F., Göttingen, Germany. Preparing a preventive of tuberculosis. No. 939,097; Nov. 2; Sp. p. 1374; Gaz. vol. 148; p. 224.  
 Rosenbaum, L., and F. Voglhub, assignors of one-half to M. Radin and I. Gerstein, New York, N. Y. Electric-current governor for dynamo-electric machines. No. 909,120; Jan. 5; Sp. p. 1423; Gaz. vol. 138; p. 227.  
 Rosenberg, A., Buffalo, N. Y. Sash-lifter and ventilator. No. 930,618; Aug. 10; Sp. p. 2049; Gaz. vol. 145; p. 359.  
 Rosenberg, A., Buffalo, N. Y. Door-check. No. 937,094; Oct. 19; Sp. p. 3099; Gaz. vol. 147; p. 545.  
 Rosenberg, B., New York, N. Y. Display-holder. No. 928,281; July 20; Sp. p. 3316; Gaz. vol. 144; p. 586.  
 Rosenberg, J. (See Voegeli and Rosenberg.)  
 Rosenberg, L. M., New York, N. Y. Belt-buckle. No. 936,565; Oct. 12; Sp. p. 2043; Gaz. vol. 147; p. 337.  
 Rosenberger, A. E., Pueblo, Ky. Swing-post and releasing-iron. No. 929,499; July 27; Sp. p. 5784; Gaz. vol. 144; p. 1015.  
 Rosenberger, E., Mankato, Minn. Gear-casing. No. 929,329; July 27; Sp. p. 5490; Gaz. vol. 144; p. 962.  
 Rosenbluth, E. M., Philadelphia, Pa. Acetylene-gas generator. No. 916,024; Mar. 23; Sp. p. 4856; Gaz. vol. 140; p. 859.  
 Rosenbusch, G. (See Pernelzsch and Rosenbusch.)  
 Rosencranz, A. C., Evansville, Ind., assignor to Vulcan Plow Company. Plow. No. 924,583; June 8; Sp. p. 3188; Gaz. vol. 143; p. 521.  
 Rosendahl, N. M., Chicago, Ill. Hose-coupling. No. 936,566; Oct. 12; Sp. p. 2043; Gaz. vol. 147; p. 337.  
 Rosene, A. L., St. Louis, Mo. Cut-off. No. 909,680; Jan. 12; Sp. p. 2510; Gaz. vol. 138; p. 446.  
 Rosenfeld, B., administratrix. (See Rosenfeld, I. A.)  
 Rosenfeld, I. A., deceased, Washington, D. C.; B. Rosenfeld, administratrix. Non-refillable bottle. No. 943,895; Dec. 21; Sp. p. 4002; Gaz. vol. 149; p. 694.  
 Rosenfeld, M. C., Cleveland, Ohio. Combined pipe and beam clamp. No. 913,772; Mar. 2; Sp. p. 203; Gaz. vol. 140; p. 34.

*Alphabetical list of patentees—Continued.*

- Rosenfield Manufacturing Company. (See Rosenfield, W. W., assignor.)  
 Rosenfield, W. W., New York, N. Y. Starting and stopping device for phonographs. No. 918,915 Apr. 20; Sp. p. 4078; Gaz. vol. 141; p. 715.  
 Rosenfield, W. W., New York, N. Y. Weighing-machine. No. 936,362; Oct. 12; Sp. p. 1577; Gaz. vol. 147; p. 270.  
 Rosenfield, W. W., New York, N. Y., assignor to Rosenfield Manufacturing Company. Coin-operated machine. No. 939,746; Nov. 9; Sp. p. 2864; Gaz. vol. 148; p. 472.  
 Rosenfield, W. W., New York, N. Y., assignor to Rosenfield Manufacturing Company. Weighing-machine. No. 939,747; Nov. 9; Sp. p. 2868; Gaz. vol. 148; p. 473.  
 Rosengarten, M., Philadelphia, Pa., assignor to F. Jacobs, Providence, R. I. Hat-pin. No. 909,121; Jan. 5; Sp. p. 1424; Gaz. vol. 138; p. 227.  
 Rosengren, A. A., Malmo, Sweden. Automatic coupling and central buffer device for railway-cars. No. 921,564; May 11; Sp. p. 3010; Gaz. vol. 142; p. 517.  
 Rosengren, F., Chicago, Ill. Vapor-burner. No. 924,689; June 15; Sp. p. 3434; Gaz. vol. 143; p. 591.  
 Rosenheim, I. S. (See Klein, C. J., assignor.)  
 Rosenheim, I. S. (See Schoenberg, R. A., assignor.)  
 Rosenleaf, G., Grand Forks, N. D. Fiber concrete for the construction of fireproof buildings. No. 937,868; Oct. 26; Sp. p. 4735; Gaz. vol. 147; p. 818.  
 Rosensteel, W. W., Caldwell, Ohio. Mine-car truck. No. 944,280; Dec. 28; Sp. p. 4917; Gaz. vol. 149; p. 850.  
 Rosenstein Brothers, Inc. (See Höiland and Halleland, assignors.)  
 Rosentengel, F. N., Indianapolis, assignor to one-half to F. R. Strickler, Franklin, Ind. Shock-absorber for vehicles. No. 931,653; Aug. 17; Sp. p. 4261; Gaz. vol. 145; p. 727.  
 Rosenthal, A. (See Doble and Rosenthal.)  
 Rosenthal, A., West Allis, Wis. Pneumatic elevator. No. 931,222; Aug. 17; Sp. p. 3380; Gaz. vol. 145; p. 587.  
 Rosenthal, A., assignor to Rosenthal Manufacturing Company, West Allis, Wis. Husking-roll. No. 927,814; July 13; Sp. p. 2312; Gaz. vol. 144; p. 399.  
 Rosenthal, A., assignor to Rosenthal Manufacturing Company, Milwaukee, Wis. Corn-husking machine. No. 945,005; Dec. 28; Sp. p. 6394; Gaz. vol. 149; p. 1097.  
 Rosenthal, H., and F. C. Turner, Tampa, Fla. Horse-check. No. 915,221; Mar. 16; Sp. p. 3249; Gaz. vol. 140; p. 568.  
 Rosenthal Manufacturing Company. (See Rosenthal, A., assignor.)  
 Rosenthal, O., Glenbeulah, Wis. Manure-carrier. No. 911,332; Feb. 2; Sp. p. 607; Gaz. vol. 139; p. 104.  
 Rosenthal, S., Norwich, Conn. Cigar box and stamp. No. 918,597; Apr. 20; Sp. p. 3337; Gaz. vol. 141; p. 607.  
 Rosenthal, S., assignor to Bradley & Vrooman Company, Chicago, Ill. Shipping box or crate for bedsteads. No. 932,581; Aug. 31; Sp. p. 6253; Gaz. vol. 145; p. 1081.  
 Rosewarne, R. E., Covington, Ky., assignor to Miller, Du Brul and Peters Manufacturing Company, Cincinnati, Ohio. Tobacco-cutting machine. No. 925,512; June 22; Sp. p. 5068; Gaz. vol. 143; p. 892.  
 Rosewarne, R. E., Covington, Ky., assignor to Miller, Du Brul & Peters Manufacturing Company, Cincinnati, Ohio. Variable-speed mechanism. No. 936,363; Oct. 12; Sp. p. 1586; Gaz. vol. 147; p. 270.  
 Rosholt, K., Eau Claire, Wis. Packing-ring. No. 943,790; Dec. 21; Sp. p. 3783; Gaz. vol. 149; p. 658.  
 Rosing, F. (See Abramowski and Rosing.)  
 Roskind, H. G., Columbia, Tenn. Eyeglass-mounting. No. 923,080; May 25; Sp. p. 6155; Gaz. vol. 142; p. 1068.  
 Rosofsky, S., Brooklyn, N. Y. Watch-guard. No. 943,271; Dec. 14; Sp. p. 2662; Gaz. vol. 149; p. 451.  
 Ross, A. C., Hubble, Ky. Wall-paper-pasting machine. No. 931,492; Aug. 17; Sp. p. 3938; Gaz. vol. 145; p. 680.  
 Ross, A. S., North Mehoopany, Pa. Vehicle-brake mechanism. No. 915,796; Mar. 23; Sp. p. 4425; Gaz. vol. 140; p. 786.  
 Ross, B., Buffalo, N. Y. Vehicle-tire. No. 916,784; Mar. 30; Sp. p. 6322; Gaz. vol. 140; p. 1129.  
 Ross, C., New York, N. Y. Folding crib. No. 914,309; Mar. 2; Sp. p. 1387; Gaz. vol. 140; p. 216.  
 Ross, C., Jr., Macetown, near Dunedin, New Zealand. Blanket-grip. No. 927,286; July 6; Sp. p. 1196; Gaz. vol. 144; p. 197.  
 Ross, C. B. (See Davis and Ross.)  
 Ross, D. E., Brookston, assignor to Ross Gear and Tool Company, La Fayette, Ind. Steering-gear for vehicles. No. 923,583; June 1; Sp. p. 1057; Gaz. vol. 143; p. 161.  
 Ross, D. E., Brookston, assignor to Ross Gear and Tool Company La Fayette, Ind. Differential gearing and reversing mechanism therefor. No. 929,884; Aug. 3; Sp. p. 560; Gaz. vol. 145; p. 89.  
 Ross, D. E., Brookston, assignor to Ross Gear and Tool Company, La Fayette, Ind. Differential mechanism. No. 941,101; Nov. 23; Sp. p. 5855; Gaz. vol. 148; p. 988.  
 Ros, S. E. A., assignor to one-fourth to D. C. Bascune, Ticonderoga, N. Y. Ore-separator. No. 919,246; Apr. 20; Sp. p. 4885; Gaz. vol. 141; p. 820.  
 Ross, E. L., Everett, Wash. Hydrogen-sulfid generator. No. 936,168; Oct. 5; Sp. p. 1187; Gaz. vol. 147; p. 181.  
 Ross, E. L., Hico, Tex. Cultivator attachment. No. 943,316; Dec. 14; Sp. p. 2758; Gaz. vol. 149; p. 466.  
 Ross, F. E., Cambridge, Mass. Screw-thread-cutting tool. No. 915,383; Mar. 16; Sp. p. 3566; Gaz. vol. 140; p. 621.  
 Ross, F. M., and J. A. Ward, Spokane, Wash. Combined match-box and cigar-cutter. No. 935,411; Sept. 28; Sp. p. 4894; Gaz. vol. 146; p. 865.  
 Ross, G., Bladen, Nebr. Cistern. No. 924,834; June 15; Sp. p. 3740; Gaz. vol. 143; p. 640.  
 Ross Gear and Tool Company. (See Brockett, B. W., assignor.)  
 Ross Gear and Tool Company. (See Ross, D. E., assignor.)  
 Ross, H., New Castle, Pa., assignor to American Can Company, New York, N. Y. Sheet-metal putty-container. No. 911,163; Feb. 2; Sp. p. 280; Gaz. vol. 139; p. 49.  
 Ross, H. B., assignor to Berlin Machine Works, Beloit, Wis. Adjusting means for planer-heads. No. 919,958; Apr. 27; Sp. p. 6406; Gaz. vol. 141; p. 1094.  
 Ross, H. B., assignor to Berlin Machine Works, Beloit, Wis. Cutter-head for grooving-machines. No. 937,962; Oct. 26; Sp. p. 4920; Gaz. vol. 147; p. 850.  
 Ross, H. B., and J. P. Gates, assignors to Berlin Machine Works, Beloit, Wis. Feeding device for jointers. No. 913,852; Mar. 2; Sp. p. 365; Gaz. vol. 140; p. 62.  
 Ross, H. B., B. D. Stevens, and J. P. Gates, assignors to Berlin Machine Works, Beloit, Wis. Feeding mechanism for saws. No. 931,223; Aug. 17; Sp. p. 3382; Gaz. vol. 145; p. 587.  
 Ross, H. L. (See Ross, W. W. and H. L.)  
 Ross, H. W. (See Ross, J. F., assignor.)  
 Ross, I. L., Thebes, Ill. Hose-coupling. No. 939,096; Nov. 2; Sp. p. 1372; Gaz. vol. 148; p. 223.  
 Ross, J. (See Payne and Ross.)  
 Ross, J., Philadelphia, Pa. Rigger's truck. No. 910,727; Jan. 26; Sp. p. 4692; Gaz. vol. 138; p. 853.  
 Ross, J., Philadelphia, Pa. Rigger's truck. No. 927,879; July 13; Sp. p. 2451; Gaz. vol. 144; p. 419.  
 Ross, J., assignor to one-eighth to J. Gustafson and one-eighth to V. Jacobson, Terry, S. D. Means for transferring passengers to and from moving trains. No. 941,954; Nov. 30; Sp. p. 7690; Gaz. vol. 148; p. 1296.  
 Ross, J. C., East Liverpool, Ohio. Boiler-flue cleaner. No. 911,333; Feb. 2; Sp. p. 608; Gaz. vol. 139; p. 104.  
 Ross, J. C., East Liverpool, Ohio. Brick-cutting machine. No. 927,878; July 13; Sp. p. 2448; Gaz. vol. 144; p. 419.  
 Ross, J. C., Butte, Mont. Reversing mechanism. No. 941,275; Nov. 23; Sp. p. 6251; Gaz. vol. 148; p. 1046.  
 Ross, J. F., assignor, by mesne assignments, to H. W. Ross, Ipswich, Mass. Apparatus for molding concrete. No. 917,141; Apr. 6; Sp. p. 378; Gaz. vol. 141; p. 65.  
 Ross, J. F., assignor, by mesne assignments, to H. W. Ross, Ipswich, Mass. Implement for molding concrete. No. 917,142; Apr. 6; Sp. p. 380; Gaz. vol. 141; p. 66.  
 Ross, J. F., assignor of one-third to W. E. Ross, one-third to P. F. Ross, and one-third to C. F. Van Horne, Toronto, Ontario, Canada. Self-sealing can. No. 941,729; Nov. 30; Sp. p. 7219; Gaz. vol. 148; p. 1218.  
 Ross, J. H., Handsworth, England. Acetylene-generator. No. 926,610; June 29; Sp. p. 7310; Gaz. vol. 143; p. 1289.  
 Ross, J. J., et al. (See Everett, E. A., assignor.)  
 Ross, J. J., Fairmont, W. Va. Cross-tie. No. 917,489; Apr. 6; Sp. p. 1044; Gaz. vol. 141; p. 182.  
 Ross, L. S., Newton, Mass. Motor-vehicle. No. 926,290; June 29; Sp. p. 6707; Gaz. vol. 143; p. 1183.  
 Ross, P. F., et al. (See Ross, J. F., assignor.)  
 Ross, R. (See Wilgis, J. L., assignor.)  
 Ross, R. C., Wilmette, Ill. Shoe-sole. No. 913,167; Feb. 23; Sp. p. 4426; Gaz. vol. 139; p. 798.  
 Ross, R. F., Biggsville, Ill. Nut-lock. No. 922,721; May 25; Sp. p. 5402; Gaz. vol. 142; p. 952.  
 Ross, S. A., Fayette, Iowa. Railway tie and chair combined. No. 913,238; Feb. 23; Sp. p. 4579; Gaz. vol. 139; p. 821.  
 Ross, V., Duquesne, Pa. Transfer mechanism. No. 921,165; May 11; Sp. p. 2179; Gaz. vol. 142; p. 383.  
 Ross, W. (See Kirby, J., assignor.)  
 Ross, W., Louisville, Ky. Grain-meter. No. 920,656; May 4; Sp. p. 1141; Gaz. vol. 142; p. 184.  
 Ross, W. D., Providence, R. I. Apparatus for depositing sand on railway-tracks. No. 936,567; Oct. 12; Sp. p. 2045; Gaz. vol. 147; p. 337.  
 Ross, W. E., et al. (See Ross, J. F., assignor.)



*Alphabetical list of patentees—Continued.*

- Ross, W. N. (See Martin and Ross.)  
 Ross, W. T., Vancouver, British Columbia, Canada. Apple corer, peeler, and slicer. No. 934,840; Sept. 21; Sp. p. 3748; Gaz. vol. 146; p. 651.  
 Ross, W. T., Vancouver, British Columbia, Canada. Thawing device for frozen ground. No. 944,382; Dec. 28; Sp. p. 3035; Gaz. vol. 149; p. 886.  
 Ross, W. W. and H. L., Smyrna, Tenn. Cotton-cultivator. No. 937,470; Oct. 19; Sp. p. 3927; Gaz. vol. 147; p. 668.  
 Rossetter, J. R., assignor to Wm. J. Oliver Manufacturing Company, Knoxville, Tenn. Plow. No. 925,134; June 15; Sp. p. 4346; Gaz. vol. 143; p. 741.  
 Rossi, A. J., assignor to Titanium Alloy Manufacturing Company, New York, N. Y. Alloy and its production. No. 935,863; Oct. 5; Sp. p. 566; Gaz. vol. 147; p. 82.  
 Rossi, C., Turin, Italy. Driving mechanism for kinematograph apparatus. No. 935,167; Sept. 28; Sp. p. 4411; Gaz. vol. 146; p. 787.  
 Rossi, M., Cervignano, Austria-Hungary. Sizing composition. No. 937,095; Oct. 19; Sp. p. 3101; Gaz. vol. 147; p. 545.  
 Rosskamp, P. H., and L. Kellermann, Tarentum, Pa. Trolley. No. 911,448; Feb. 2; Sp. p. 810; Gaz. vol. 139; p. 141.  
 Rossman, J. B., St. Paul, Minn. Treating gold. No. 943,317; Dec. 14; Sp. p. 2759; Gaz. vol. 149; p. 466.  
 Rössner, H. (See Schmidt, Rössner, and Balhorn.)  
 Rostad, A., Drontheim, assignor of one-half to A. David-Anderson, Christiania, Norway. Engraving-machine. No. 934,216; Sept. 14; Sp. p. 2535; Gaz. vol. 146; p. 418.  
 Rostand Mfg. Co. (See Landine, P. N., assignor.)  
 Roston, J., Bradford, Manchester, England. Weft-controlling mechanism for weaving-loom. No. 938,276; Oct. 26; Sp. p. 5594; Gaz. vol. 147; p. 956.  
 Rosvold, J. A., Nome, Alaska. Wave-breaker. (Reissue.) No. 13,056; Dec. 14; Sp. p. 3489; Gaz. vol. 149; p. 580.  
 Rotary Meter Company. (See Thorp, T., assignor.)  
 Rotary Ring Spinning Company. (See Hall, B., assignor.)  
 Rothford, T. F., Ballston, Va. Multiple door-bolt. No. 932,330; Aug. 24; Sp. p. 5714; Gaz. vol. 145; p. 975.  
 Rote, C. V., and P. E. Shee, Lancaster, Pa. Car-brake. No. 938,340; Oct. 26; Sp. p. 5749; Gaz. vol. 147; p. 978.  
 Roth, A. (See Belloff and Roth.)  
 Roth, A. A., Buffalo, N. Y. Trolley-wheel shield. No. 913,168; Feb. 23; Sp. p. 4427; Gaz. vol. 139; p. 798.  
 Roth, C., Zehlendorf, near Berlin, Germany. Turbine. No. 911,616; Feb. 9; Sp. p. 1174; Gaz. vol. 139; p. 223.  
 Roth, C., Munich, assignor to Melms & Pfenniger G. M. B. H., Munich-Hirschau, Bavaria, Germany. Elastic-fluid turbine. No. 924,108; June 8; Sp. p. 2167; Gaz. vol. 143; p. 362.  
 Roth, C., Munich, assignor to Melms & Pfenniger, G. M. B. H., Munich-Hirschau, Germany. Valve-gear for turbines. No. 934,360; Sept. 14; Sp. p. 2802; Gaz. vol. 146; p. 467.  
 Roth, C., Munich, Germany, assignor to Melms & Pfenniger, G. M. B. H., Munich-Hirschau, Bavaria. Elastic-fluid turbine. No. 943,465; Dec. 14; Sp. p. 3073; Gaz. vol. 149; p. 517.  
 Roth, C. H., and H. A. Harrington, Akron, Ohio. Block-signal. No. 910,957; Jan. 26; Sp. p. 5146; Gaz. vol. 138; p. 927.  
 Roth, F., New York, N. Y. Envelop moistener and sealer. No. 943,318; Dec. 14; Sp. p. 2762; Gaz. vol. 149; p. 466.  
 Roth, G., et al. (See Schollenberger, E. M., assignor.)  
 Roth, G., Philadelphia, Pa. Hog-cleaning machine. No. 919,775; Apr. 27; Sp. p. 6017; Gaz. vol. 141; p. 1035.  
 Röth, I. (See Kádár and Röth.)  
 Roth, L., New York, N. Y. Orthopedic device. No. 932,177; Aug. 24; Sp. p. 5417; Gaz. vol. 145; p. 924.  
 Roth, R., Erfurt, Germany. Malt-kiln. No. 936,947; Oct. 12; Sp. p. 2789; Gaz. vol. 147; p. 466.  
 Rothchild, J., Bayonne, N. J. Engine-valve. No. 916,491; Mar. 30; Sp. p. 5762; Gaz. vol. 140; p. 1039.  
 Rothchild, J., assignor to John Simmons Co., New York, N. Y. Blow-off valve. No. 917,490; Apr. 6; Sp. p. 1045; Gaz. vol. 141; p. 183.  
 Rothchild, J., assignor to John Simmons Company, New York, N. Y. Blow-off valve. No. 920,779; May 4; Sp. p. 1387; Gaz. vol. 142; p. 225.  
 Rothchild, J., Bayonne, N. J., assignor to John Simmons Company, New York, N. Y. Awning. No. 918,598; Apr. 20; Sp. p. 3338; Gaz. vol. 141; p. 607.  
 Rothe, P. (See Rabich, W., assignor.)  
 Rothenbuecher, G. E. R., Astoria, N. Y. Gate-valve. No. 935,233; Sept. 28; Sp. p. 4539; Gaz. vol. 146; p. 808.  
 Rothengatter, R., New York, N. Y. Foldable kitchen-rack. No. 941,653; Nov. 30; Sp. p. 7054; Gaz. vol. 148; p. 1192.  
 Rotherham, G. H., Tonopah, Nev. Tube-mill lining. No. 939,637; Nov. 9; Sp. p. 2637; Gaz. vol. 148; p. 435.  
 Rothermel, W. E. (See Flora, E. E., assignor.)  
 Rothert, O. (See Murray, B. C., assignor.)  
 Rothschild, B., Baltimore, Md. Locking detachable joint. No. 925,654; June 22; Sp. p. 5357; Gaz. vol. 143; p. 938.  
 Rothschild & Company. (See Fallor, E. A., assignor.)  
 Rothschild, L. (See Kaag, E. C., assignor.)  
 Rothschild, L., Cincinnati, Ohio. Cloth shrinking and pressing machine. No. 944,281; Dec. 28; Sp. p. 4818; Gaz. vol. 149; p. 850.  
 Rottman, G., et al. (See Shank, A. W., assignor.)  
 Roudebush, E. H., Topeka, Kans. Copy-book. No. 919,642; Apr. 27; Sp. p. 5756; Gaz. vol. 141; p. 990.  
 Rough, W. H., Arlington, Cal. Automatic weighing means. No. 924,940; June 15; Sp. p. 3953; Gaz. vol. 143; p. 675.  
 Roughan, G. F., Boston, Mass. Cable-railway. No. 940,825; Nov. 23; Sp. p. 5285; Gaz. vol. 148; p. 896.  
 Roughan, G. F., Boston, Mass. Movable flange for hoisting-drums. No. 940,826; Nov. 23; Sp. p. 5287; Gaz. vol. 148; p. 897.  
 Rouissages Belges Legrand & Cie. Société Anonyme. (See Cappelaere, A., assignor.)  
 Roulstone, R. G., McKenzie, Tenn. Hub-attaching device. No. 935,061; Sept. 28; Sp. p. 4198; Gaz. vol. 146; p. 752.  
 Roumillat, U. C., and D. M. Caldwell, Columbia, S. C. Trousers stretcher and creaser. No. 912,492; Feb. 16; Sp. p. 3025; Gaz. vol. 139; p. 547.  
 Round, J. C., Sydenham Hill, London, England. Apron. No. 925,655; June 22; Sp. p. 5359; Gaz. vol. 143; p. 939.  
 Rounds, F. A. (See Mahoney and Rounds.)  
 Rounds, H. M., Columbia, Pa. Saw-handle. No. 908,501; Jan. 5; Sp. p. 143; Gaz. vol. 138; p. 25.  
 Rounds, H. M., Corry, assignor to Warren Axe & Tool Company, Warren, Pa. Swivel. No. 913,056; Feb. 23; Sp. p. 4201; Gaz. vol. 139; p. 760.  
 Rounds, H. M., Corry, assignor to Warren Axe & Tool Company, Warren, Pa. Log-grab. No. 937,183; Oct. 19; Sp. p. 3296; Gaz. vol. 147; p. 574.  
 Rounds, J. M., Strong, Me. Stop-motion for veneer-lathes. No. 942,105; Dec. 7; Sp. p. 155; Gaz. vol. 149; p. 24.  
 Rounds, M., Boston, Mass. Convertible car. No. 933,268; Sept. 7; Sp. p. 546; Gaz. vol. 146; p. 84.  
 Rountree, H. W. (See Cottrell, H. W., assignor.)  
 Rountree, J., Berkeley, Cal. Disappearing bed. No. 931,962; Aug. 24; Sp. p. 4977; Gaz. vol. 145; p. 852.  
 Rountree, J., Berkeley, Cal. Resilient wheel. No. 939,748; Nov. 9; Sp. p. 2874; Gaz. vol. 148; p. 473.  
 Rountree, J. G., Beeville, Tex. Root-cutting attachment for plowing-machines. No. 915,483; Mar. 16; Sp. p. 3756; Gaz. vol. 140; p. 653.  
 Rountree, J. G., Beeville, Tex. Root-cutting machine. No. 915,484; Mar. 16; Sp. p. 3758; Gaz. vol. 140; p. 654.  
 Rourke, J., New London, Conn. Feathering-blade paddle-wheel. No. 936,478; Oct. 12; Sp. p. 1857; Gaz. vol. 147; p. 308.  
 Rouse, C., and N. C. Neemes, Pittsburg, Pa. Coal-leveling machine. No. 916,200; Mar. 23; Sp. p. 5173; Gaz. vol. 140; p. 916.  
 Rouse, G. S., assignor of one-third to C. A. Cairns, Chicago, Ill., and one-third to N. M. Breeze, Cincinnati, Ohio. Toy balloon. No. 916,605; Mar. 30; Sp. p. 5998; Gaz. vol. 140; p. 1076.  
 Rouse, H. B., Chicago, Ill. Plate-holder. No. 921,005; May 11; Sp. p. 1853; Gaz. vol. 142; p. 328.  
 Rouse, R., Jr., Elizabeth, N. J., assignor to Boynton Furnace Company, New York, N. Y. Furnace. No. 934,018; Sept. 14; Sp. p. 2136; Gaz. vol. 146; p. 353.  
 Rouse, R., Jr., Elizabeth, N. J., assignor to Boynton Furnace Company, New York, N. Y. Damper for furnace or stove pipes. No. 940,942; Nov. 23; Sp. p. 5525; Gaz. vol. 148; p. 935.  
 Roush, F., assignor of one-half to G. C. Countryman, Le Mars, Iowa. Grass-catcher for lawn-mowers. No. 934,361; Sept. 14; Sp. p. 2804; Gaz. vol. 146; p. 467.  
 Roush, S., Newark, Ind. Window-pane fastener. No. 911,164; Feb. 2; Sp. p. 281; Gaz. vol. 139; p. 49.  
 Rousseau, A. E. M., Paris, France. Treating vegetable textile fibers. No. 909,457; Jan. 12; Sp. p. 2072; Gaz. vol. 138; p. 368.  
 Rousseau, R. (See Oliver and Rousseau.)  
 Rousseau, S., Belleville, Ill. Cartridge-shell machine. No. 919,247; Apr. 20; Sp. p. 4886; Gaz. vol. 141; p. 821.  
 Rousseau, T. A., Nashville, Tenn. Railway-ticket. No. 944,995; Dec. 28; Sp. p. 6370; Gaz. vol. 149; p. 1094.  
 Roussel, W. J., New Orleans, La. Cipher-code system. No. 916,606; Mar. 30; Sp. p. 5999; Gaz. vol. 140; p. 1076.  
 Roussel, G., Lutter, La. Cutter-head. No. 909,025; Jan. 5; Sp. p. 1214; Gaz. vol. 138; p. 195.  
 Roussel, G., Lutter, La. Cutter-head. No. 909,122; Jan. 5; Sp. p. 1425; Gaz. vol. 138; p. 228.  
 Rousselot, J. C. S., Paris, France. Stage-noise cabinet. No. 928,070; July 13; Sp. p. 2836; Gaz. vol. 144; p. 483.  
 Roussillon, P., Argenteuil, France. Flexible and elastic band for pneumatic tires. No. 943,998; Dec. 21; Sp. p. 4241; Gaz. vol. 149; p. 730.  
 Routin, J. L., Lyon, France. Controlling electric motors. No. 935,327; Sept. 28; Sp. p. 4729; Gaz. vol. 146; p. 839.  
 Routt, W. R., Hodgenville, Ky. Pulley. No. 928,071; July 13; Sp. p. 2840; Gaz. vol. 144; p. 484.

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- Roux, H., Marseille, France. Safety-valve for steam-engines and the like. No. 917,143; Apr. 6; Sp. p. 383; Gaz. vol. 141; p. 66.  
 Roux, H., Marseille, France. Reducing or pressure-regulating valve for steam-engines and the like. No. 940,195; Nov. 16; Sp. p. 3882; Gaz. vol. 148; p. 659.  
 Roux, H., Marseille, France. Rotary engine. No. 942,413; Dec. 7; Sp. p. 794; Gaz. vol. 149; p. 129.  
 Rouxeville, E. A. L., Paris, France. Treatment of hydrocarbons. No. 919,248; Apr. 20; Sp. p. 4891; Gaz. vol. 141; p. 821.  
 Rouxeville, E. A. L., Paris, France. Agglomeration and regeneration of india-rubber, gutta-percha, and their artificial substitutes. No. 922,339; May 18; Sp. p. 4594; Gaz. vol. 142; p. 798.  
 Row, R. R., Jersey City, N. J., assignor to Griscom-Spencer Company, New York, N. Y. Ice-cream machinery. No. 941,172; Nov. 23; Sp. p. 6024; Gaz. vol. 148; p. 1012.  
 Rowe, A. V., Galesburg, Ill. Refrigerator. No. 925,727; June 22; Sp. p. 5515; Gaz. vol. 143; p. 962.  
 Rowe, A. V., Galesburg, Ill. Gate. No. 928,798; July 20; Sp. p. 4341; Gaz. vol. 144; p. 756.  
 Rowe, B. P., Wilkinsburg, and S. M. Kintner, Pittsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Fuse-receptacle. No. 933,787; Sept. 14; Sp. p. 1681; Gaz. vol. 146; p. 278.  
 Rowe, D. S., Chicago, Ill. Perpetual calendar. No. 915,222; Mar. 16; Sp. p. 3250; Gaz. vol. 140; p. 568.  
 Rowe, G. F., Bangor, Me. Escape-valve for pulp-digesters. No. 921,741; May 18; Sp. p. 3390; Gaz. vol. 142; p. 604.  
 Rowe, G. H., Riverside, assignor to Electro-Magnetic Tool Company, Chicago, Ill. Electromechanical device. No. 938,708; Nov. 2; Sp. p. 564; Gaz. vol. 148; p. 89.  
 Rowe, G. H., Berwyn, assignor to Electro-Magnetic Tool Company, Chicago, Ill. Electromechanical device. No. 938,709; Nov. 2; Sp. p. 567; Gaz. vol. 148; p. 89.  
 Rowe, G. W., and G. A. Howard, Hampton, Va. Composition of matter. No. 937,869; Oct. 26; Sp. p. 4736; Gaz. vol. 147; p. 819.  
 Rowe, H. C., Haverhill, Mass. Turned shoe. No. 937,471; Oct. 19; Sp. p. 3928; Gaz. vol. 147; p. 668.  
 Rowe, J. A. (See Owens, Rowe, and Mitchell.)  
 Rowe, J. S., Buffalo, N. Y., assignor to Rowe Sanitary Lavatory Company, Detroit, Mich. Lavatory. No. 921,166; May 11; Sp. p. 2181; Gaz. vol. 142; p. 384.  
 Rowe, K. P., New York, N. Y. Fire apparatus. No. 921,284; May 11; Sp. p. 2439; Gaz. vol. 142; p. 424.  
 Rowe, L. B., Boston, Mass. Tumbler-washer. No. 910,587; Jan. 26; Sp. p. 4439; Gaz. vol. 138; p. 809.  
 Rowe, M. L., assignor of one-half to S. T. Fiero, Pittsburg, Pa. Hot-blast valve. No. 927,431; July 6; Sp. p. 1465; Gaz. vol. 144; p. 243.  
 Rowe, R. M., Beaver Falls, Pa. Lever construction for churns. No. 934,217; Sept. 14; Sp. p. 2536; Gaz. vol. 146; p. 419.  
 Rowe Sanitary Lavatory Company. (See Rowe, J. S., assignor.)  
 Rowe, T. G., Los Angeles, Cal. Wheel-drive for automobiles. No. 940,069; Nov. 16; Sp. p. 3594; Gaz. vol. 148; p. 615.  
 Rowe, W. (See Newman and Rowe.)  
 Rowe, W. T. (See Furman and Rowe.)  
 Rowell, B. C., Chicago, Ill. Adjustable extension-shelf. No. 916,785; Mar. 30; Sp. p. 6323; Gaz. vol. 140; p. 1129.  
 Rowell, F. L. (See Jackson, F. R., assignor.)  
 Rowell, F. R. (See Van Dyke and Rowell.)  
 Rowell, S. W., Albany, N. Y. Type-writer keyboard. No. 943,466; Dec. 14; Sp. p. 3074; Gaz. vol. 149; p. 517.  
 Rowland, A. (See Edwards, J. B., assignor.)  
 Rowland, C. L., New York, N. Y. Subaqueous rock-breaker. (Reissue.) No. 12,933; Mar. 30; Sp. p. 6681; Gaz. vol. 140; p. 1191.  
 Rowland, G., Cincinnati, Ohio. Machine for pressing garments. No. 926,291; June 29; Sp. p. 6709; Gaz. vol. 143; p. 1183.  
 Rowland, H. K., Toppenish, assignor of one-half to L. H. Larsen, Alfalfa, Wash. Apparatus for assorting or sizing fruit. No. 925,950; June 22; Sp. p. 5996; Gaz. vol. 143; p. 1035.  
 Rowland, R. S., Oklahoma, Okla. Alfalfa-drier. No. 928,541; July 20; Sp. p. 3823; Gaz. vol. 144; p. 671.  
 Rowland Telegraphic Company. (See Potts, L. M., assignor.)  
 Rowlands, A. T., Fairhaven, Pa. Music-rack for stringed and wind instruments. No. 917,491; Apr. 6; Sp. p. 1047; Gaz. vol. 141; p. 183.  
 Rowlands, D. W., Minersville, Pa. Drill. No. 909,124; Jan. 5; Sp. p. 1427; Gaz. vol. 138; p. 228.  
 Rowlands, G., assignor of one-half to W. S. Wood, Schenectady, N. Y. Antiseptic mouthpiece for telephones. No. 941,173; Nov. 23; Sp. p. 6025; Gaz. vol. 148; p. 1012.  
 Rowlands, P. (See Rowlands, W. E. and P.)  
 Rowlands, W. E. and P., Liverpool, England. Change-speed cone and pulley. No. 944,636; Dec. 28; Sp. p. 5619; Gaz. vol. 149; p. 975.  
 Rowley, J. F., Chicago, Ill. Artificial foot. No. 942,521; Dec. 7; Sp. p. 1039; Gaz. vol. 149; p. 167.  
 Rowley, R. A., Peoria, Ill. Truck. No. 925,388; June 15; Sp. p. 4809; Gaz. vol. 143; p. 821.  
 Rowley, T., assignor of two-fifths to H. P. Patterson, Wellsville, Ohio. Safety appliance for elevators. No. 912,173; Feb. 9; Sp. p. 2338; Gaz. vol. 139; p. 404.  
 Rowley, W. H., Detroit, Mich. Treatment of coniferous woods. No. 942,106; Dec. 7; Sp. p. 158; Gaz. vol. 149; p. 25.  
 Rowling, W. E., Salinas, Cal. Resilient tire. No. 939,638; Nov. 9; Sp. p. 2638; Gaz. vol. 148; p. 435.  
 Rowntree, E. D. (See Sharp and Rowntree.)  
 Rowntree, H., Chicago, Ill. Passenger-car. No. 935,929; Oct. 5; Sp. p. 704; Gaz. vol. 147; p. 103.  
 Rowntree, H., assignor to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Safety locking device for doors or other closures. No. 913,773; Mar. 2; Sp. p. 204; Gaz. vol. 140; p. 34.  
 Rowntree, H., assignor to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Pneumatic operating mechanism for doors or other devices. No. 913,853; Mar. 2; Sp. p. 368; Gaz. vol. 140; p. 62.  
 Rowntree, H., assignor to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Flush elevator-hatchway. No. 916,607; Mar. 30; Sp. p. 6001; Gaz. vol. 140; p. 1076.  
 Rowntree, H., assignor to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Electrically-controlled door-operating mechanism for street or railway cars. No. 920,183; May 4; Sp. p. 177; Gaz. vol. 142; p. 29.  
 Rowntree, H., assignor to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Elevator car and well door operating mechanism. No. 931,224; Aug. 17; Sp. p. 3384; Gaz. vol. 145; p. 588.  
 Rowntree, H., assignor to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Door-operating mechanism. No. 937,870; Oct. 26; Sp. p. 4737; Gaz. vol. 147; p. 819.  
 Roxberg, A. E., Rosington, Minn. Hub-fastener. No. 920,657; May 4; Sp. p. 1143; Gaz. vol. 142; p. 185.  
 Roy, A. C. J., Providence, R. I. Window-sash lock. No. 926,899; July 6; Sp. p. 399; Gaz. vol. 144; p. 65.  
 Roy, C., Torrington, Conn. Door catch and lock. No. 917,664; Apr. 6; Sp. p. 1359; Gaz. vol. 141; p. 240.  
 Roy, H. W., and A. Weber, Wellington, New Zealand. Means for locking electric lamps within their holders. No. 934,760; Sept. 21; Sp. p. 3585; Gaz. vol. 146; p. 625.  
 Roy & Titcomb. (See Mott, F. M., assignor.)  
 Royal Manufacturing Company. (See Shee, P. E., assignor.)  
 Royal Phone & Phonogram Co. (See Applegate, F. C., assignor.)  
 Royal Phone and Phonogram Company. (See Runge, W. C., assignor.)  
 Royal Solvent Company. (See Grant, W. A., assignor.)  
 Royal Typewriter Company. (See Hess, E. B., assignor.)  
 Royal Typewriter Company. (See Myers, L. C., assignor.)  
 Royal, H. H., U. S. Navy. Range-finder. No. 934,841; Sept. 21; Sp. p. 3750; Gaz. vol. 146; p. 652.  
 Royan, G. (See Notz and Royan.)  
 Royce, C. W., Montclair, N. J., assignor to Kempshall Manufacturing Company, New York, N. Y. Golf-club. No. 925,389; June 15; Sp. p. 4809; Gaz. vol. 143; p. 822.  
 Royce, R. S., New York, N. Y. Knapsack. No. 922,046; May 18; Sp. p. 4027; Gaz. vol. 142; p. 703.  
 Royden Marble Machinery Company. (See Peirce, J. R., assignor.)  
 Royer, C. E., et al. (See Rickert, A. A., assignor.)  
 Royer, E. C., Colwyn, Pa. Bottle. No. 919,468; Apr. 27; Sp. p. 5408; Gaz. vol. 141; p. 931.  
 Royer, E. S., Bismarck, Mo. Case-lock. No. 918,374; Apr. 13; Sp. p. 2857; Gaz. vol. 141; p. 506.  
 Royer, G. F. (See Kelly and Royer.)  
 Royer, G. F., Wilkes-Barre, Pa. Flexible pipe-coupling. No. 916,025; Mar. 23; Sp. p. 4859; Gaz. vol. 140; p. 860.  
 Royer, J. H., Wichita, Kans. Automatic grain-measure. No. 925,390; June 15; Sp. p. 4810; Gaz. vol. 143; p. 822.  
 Royer, J. R. (See Myers and Royer.)  
 Royle, V., Paterson, N. J. Electric tempering-furnace. No. 924,109; June 8; Sp. p. 2169; Gaz. vol. 143; p. 362.  
 Royle, V., Paterson, N. J. Machine for repeating jacquard-cards. No. 930,694; Aug. 10; Sp. p. 2195; Gaz. vol. 145; p. 383.  
 Royle, V., Paterson, N. J. Cutter-holder for grinding routing-cutters. No. 930,695; Aug. 10; Sp. p. 2200; Gaz. vol. 145; p. 384.  
 Royle, V., Paterson, N. J. Beveling-machine. No. 933,343; Sept. 7; Sp. p. 698; Gaz. vol. 146; p. 109.  
 Royle, V., Paterson, N. J. Engraving-machine. No. 933,344; Sept. 7; Sp. p. 700; Gaz. vol. 146; p. 109.  
 Royle, V. and V. E., Paterson, N. J. Electric tempering-furnace. No. 943,272; Dec. 14; Sp. p. 2664; Gaz. vol. 149; p. 451.  
 Royle, V. E. (See Royle, V. and V. E.)  
 Roys, H. M., et al. (See Woodruff and Macy, assignors.)



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- Royce, G., Jacksonville, Ill. Base-stand for porch-columns. No. 922,517; May 25; Sp. p. 4977; Gaz. vol. 142; p. 885.
- Rozendal, G., Leavenworth, Kans. Plant-protector. No. 935,691; Oct. 5; Sp. p. 148; Gaz. vol. 147; p. 24.
- Rozier, W. H., and S. C. Igou, St. Louis, Mo. Starting device for internal-combustion engines. No. 927,681; July 13; Sp. p. 2039; Gaz. vol. 144; p. 354.
- Rubber-Bound Brush Company. (See Hardman, H. V., assignor.)
- Rubber & Celluloid Harness Trimming Co. (See Lott, W. F., assignor.)
- Rubber & Celluloid Harness Trimming Co. (See Miltner, E., assignor.)
- Rubber & Celluloid Harness Trimming Co. (See Potter, J. J., assignor.)
- Rübel, W., Vienna, Austria-Hungary. Reducing the amount of carbon in cast-iron or articles cast from iron. No. 935,234; Sept. 28; Sp. p. 4542; Gaz. vol. 146; p. 808.
- Rubert, N. (See King and Rubert.)
- Rubes, E., Brooklyn, N. Y. Flexible metallic tubing. No. 916,890; Mar. 30; Sp. p. 6512; Gaz. vol. 140; p. 1164.
- Rubin, M., Brooklyn, N. Y. Garment-buckle. No. 931,802; Aug. 24; Sp. p. 4617; Gaz. vol. 145; p. 800.
- Rubinowitch, P., Boston, Mass. Sleeping-car berth. No. 936,814; Oct. 12; Sp. p. 2529; Gaz. vol. 147; p. 422.
- Ruble, C. H., Poland, Ind. Combined table knife and fork. No. 914,310; Mar. 2; Sp. p. 1387; Gaz. vol. 140; p. 216.
- Rübsam, L., Bamberg, Germany. Preparing beer-wort. No. 909,942; Jan. 19; Sp. p. 3048; Gaz. vol. 138; p. 565.
- Ruchti, C., Kinsman, Ohio. Can. No. 909,230; Jan. 12; Sp. p. 1639; Gaz. vol. 138; p. 295.
- Ruck, R. M., London, England. Variable-speed driving mechanism. No. 912,736; Feb. 16; Sp. p. 3586; Gaz. vol. 139; p. 633.
- Ruckes, M., Beaver Falls, Pa. Balance-ball for scales. No. 921,285; May 11; Sp. p. 2441; Gaz. vol. 142; p. 425.
- Ruckle, E. P., Baltimore, Md. Eaves-protector. No. 936,040; Oct. 5; Sp. p. 927; Gaz. vol. 147; p. 140.
- Ruddick, J. J., Newton, Mass. Trolley-switch. No. 915,700; Mar. 16; Sp. p. 4229; Gaz. vol. 140; p. 729.
- Ruddiman, J., Yonkers, N. Y. Gas-cleaner. No. 919,249; Apr. 20; Sp. p. 4893; Gaz. vol. 141; p. 821.
- Ruddock, H. M. (See Anderson and Ruddock.)
- Ruddy, M. J., assignor of one-half to A. H. Searle, Salt Lake City, Utah. Indicator-lock. No. 923,584; June 1; Sp. p. 1063; Gaz. vol. 143; p. 162.
- Rude, J. L. (See Marx and Rude.)
- Rude, O., Burke, Wis. Coupling device. No. 919,469; Apr. 27; Sp. p. 5409; Gaz. vol. 141; p. 931.
- Rudert, F. (See Zeiss and Rudert.)
- Rudland, A. S. (See McGregor and Rudland.)
- Rudolph, A. L., Jr., Camden, N. J. Non-refillable bottle. No. 920,184; May 4; Sp. p. 183; Gaz. vol. 142; p. 29.
- Rudolph, C. A. (See Ryrie, R. A., assignor.)
- Rudolph, F. (See Heisterkamp, A., assignor.)
- Rudolph, F., Winnetka, Ill., assignor to American Can Company, New York, N. Y. Jacket-can. No. 925,135; June 15; Sp. p. 4347; Gaz. vol. 143; p. 741.
- Rudolph, F., and E. W. Carnes, Chicago, Ill., assignors to American Can Company, New York, N. Y. Package or holder for shipment of tin-plate or other thin metal sheets. No. 921,742; May 18; Sp. p. 3391; Gaz. vol. 142; p. 604.
- Rudolph, F., and E. W. Carnes, Chicago, Ill., assignors to American Can Company, New York, N. Y. Holder for shipment of tin-plate. No. 921,743; May 18; Sp. p. 3392; Gaz. vol. 142; p. 604.
- Rudolph, F. A., Maplewood, Mo. Repeating mechanical sign apparatus. No. 939,550; Nov. 9; Sp. p. 2435; Gaz. vol. 148; p. 404.
- Rudolph, G. W. (See Connelly and Rudolph.)
- Rudolph, R. E., Paducah, Ky. Brake. No. 930,234; Aug. 3; Sp. p. 1256; Gaz. vol. 145; p. 207.
- Rudolph Wurlitzer Company. (See De Kleist, E., assignor.)
- Rudolphi, F. (See Ostlin and Rudolphi.)
- Rudolphi, F., Chicago, Ill., assignor to American Can Company, New York, N. Y. Sheet-metal pocket tobacco-box. No. 919,643; Apr. 27; Sp. p. 5757; Gaz. vol. 141; p. 991.
- Rudolphi, F., Chicago, Ill., assignor to American Can Company, New York, N. Y. Can-seaming machine. No. 920,658; May 4; Sp. p. 1144; Gaz. vol. 142; p. 185.
- Rudolphi, F., Chicago, Ill., assignor to American Can Company, New York, N. Y. Cutting can-heads or other sheet-metal blanks. No. 922,194; May 18; Sp. p. 4311; Gaz. vol. 142; p. 752.
- Ruehs, C. L. (See Schmitt and Ruehs.)
- Ruehs, C. L., assignor to C. J. Geffert, S. O. Hawkinson, and A. Anderson, Chicago, Ill. Foldable carpenter's square. No. 912,174; Feb. 9; Sp. p. 2339; Gaz. vol. 139; p. 404.
- Rueckert, E. (See Dean and Rueckert.)
- Ruegg, C., New York, N. Y. Jacking apparatus for railway-cars. No. 932,811; Aug. 31; Sp. p. 6746; Gaz. vol. 145; p. 1157.
- Ruehs, C. L., Chicago, Ill. Convertible folding couch. No. 921,466; May 11; Sp. p. 2819; Gaz. vol. 142; p. 485.
- Ruel, J. (See Tossell and Ruel.)
- Ruesing, J., Jr., St. Louis, Mo. Spool-holder for ribbons and the like. No. 929,790; Aug. 3; Sp. p. 338; Gaz. vol. 145; p. 57.
- Rueter, W., New York, N. Y. Folding bag. No. 932,721; Aug. 31; Sp. p. 6554; Gaz. vol. 145; p. 1129.
- Ruff, C. C. and J. H., Lake Creek, Tex. Nut-lock. No. 916,201; Mar. 23; Sp. p. 5176; Gaz. vol. 140; p. 917.
- Ruff, J. H. (See Ruff, C. C. and J. H.)
- Ruff, W. J., Quincy, Ill., assignor, by mesne assignments, to C. J. Tagliabue, Brooklyn, N. Y. Thermostatic temperature-regulator. No. 920,883; May 4; Sp. p. 1617; Gaz. vol. 142; p. 258.
- Ruffin, A., Paris, France. Cyclometer for bicycles. No. 928,473; July 20; Sp. p. 3692; Gaz. vol. 144; p. 649.
- Ruffin, D. A., Hot Springs, Ark. Farming implement. No. 917,144; Apr. 6; Sp. p. 384; Gaz. vol. 141; p. 67.
- Ruffin, J. A., assignor to Hammond Typewriter Co., New York, N. Y. Type-writing machine. No. 915,890; Mar. 23; Sp. p. 4597; Gaz. vol. 140; p. 816.
- Ruge, J. (See Wiedemeyer, W. I., assignor.)
- Rugg, J. F., Ottumwa, Iowa. Funnel. No. 944,914; Dec. 28; Sp. p. 6216; Gaz. vol. 149; p. 1068.
- Rugg, W. S. (See Varley, T. W., assignor.)
- Ruggles, C. S., Huron, Ohio. Railway-switch. No. 930,888; Aug. 10; Sp. p. 2615; Gaz. vol. 145; p. 447.
- Ruggles, H. A., Hutchinson, Kans., assignor to Engineers Specialty Company. Flue-cleaner. No. 931,963; Aug. 24; Sp. p. 4978; Gaz. vol. 145; p. 852.
- Ruggles, H. A., Kansas City, Mo., and C. A. Thompson, Hutchinson, Kans., assignors to Metal Post and Pole Company. Sheet-metal pole. No. 927,170; July 6; Sp. p. 977; Gaz. vol. 144; p. 158.
- Ruggles, H. C., Pasadena, Cal. Hydrocarbon-burner. No. 918,916; Apr. 20; Sp. p. 4083; Gaz. vol. 141; p. 716.
- Ruggles, W. M., Mellen, Wis. Crosscut-saw carrier. No. 915,384; Mar. 16; Sp. p. 3568; Gaz. vol. 140; p. 621.
- Rugh, H. O., assignor to Sandwich Electric Company, Sandwich, Ill. Signaling system. No. 927,602; July 13; Sp. p. 1861; Gaz. vol. 144; p. 329.
- Rühbaum, B., Remscheid, Germany. Railway-switch. No. 928,704; July 20; Sp. p. 4159; Gaz. vol. 144; p. 725.
- Ruhe, H. F. W., *et al.* (See Reiger, C., assignor.)
- Ruhl, J., New Rochelle, N. Y. Closet-valve. No. 910,958; Jan. 26; Sp. p. 5149; Gaz. vol. 138; p. 928.
- Ruhland, A., assignor to C. E. Troemner, Philadelphia, Pa. Grinding-mill. No. 916,786; Mar. 30; Sp. p. 6325; Gaz. vol. 140; p. 1130.
- Rukes, C. F., Springfield, Mo. Heat-regulator. No. 912,175; Feb. 9; Sp. p. 2340; Gaz. vol. 139; p. 404.
- Rikonen, J., Chicago, Ill. Safety device for elevators. No. 918,917; Apr. 20; Sp. p. 4084; Gaz. vol. 141; p. 716.
- Rulison, W., assignor, by mesne assignments, of two-thirds to R. M. Knox, executrix, C. M. Knox, 2d, and J. E. Knox, Johnstown, N. Y. Bag filling and sealing machine. No. 936,169; Oct. 5; Sp. p. 1189; Gaz. vol. 147; p. 181.
- Rulison, W., assignor, by mesne assignments, of two-thirds to R. M. Knox, executrix, C. M. Knox, 2d, and J. E. Knox, Johnstown, N. Y. Apparatus for delivering measured quantities of material. No. 936,170; Oct. 5; Sp. p. 1201; Gaz. vol. 147; p. 181.
- Rumbel, R., Omaha, Nebr. Composition of matter. No. 913,565; Feb. 23; Sp. p. 5268; Gaz. vol. 139; p. 932.
- Rumble, C. A., Lowville, N. Y. Automatic stop for phonographs. No. 932,061; Aug. 24; Sp. p. 5192; Gaz. vol. 145; p. 886.
- Rumble, W., New York, N. Y. Air-ship. No. 909,681; Jan. 12; Sp. p. 2511; Gaz. vol. 138; p. 446.
- Rumbold, F. M., *et al.* (See Phillips, W. A., assignor.)
- Rummel, W. L., Sioux City, Iowa. Railway block system. No. 932,582; Aug. 31; Sp. p. 6255; Gaz. vol. 145; p. 1082.
- Rumrill, F., Boston, Mass. Bottle-stopper. No. 915,116; Mar. 16; Sp. p. 3025; Gaz. vol. 140; p. 534.
- Rumsey, H. S., St. Louis, Mo. Ball-cock. No. 936,742; Oct. 12; Sp. p. 2396; Gaz. vol. 147; p. 399.
- Rumsey, H. S., St. Louis, Mo. Water-closet. No. 942,464; Dec. 7; Sp. p. 916; Gaz. vol. 149; p. 148.
- Rumsey, J. E. (See Skidmore, C., assignor.)
- Rumsey, J. W., Suisun, Cal. Car-door. No. 911,617; Feb. 9; Sp. p. 1177; Gaz. vol. 139; p. 223.
- Rumsey, W. M., San Diego, Cal. Automatic spring-piston for liquid, steam, or gas cylinders. No. 917,798; Apr. 13; Sp. p. 1676; Gaz. vol. 141; p. 310.
- Runbeck, W. B., Washington, D. C. Parallel strip. No. 910,959; Jan. 26; Sp. p. 5150; Gaz. vol. 138; p. 928.
- Rundle, J. N., Oxnard, Cal. Boring attachment for lathes. No. 926,612; June 29; Sp. p. 7313; Gaz. vol. 143; p. 1290.

*Alphabetical list of patentees—Continued.*

- Rundlöf, E. A., Stocksund, Sweden. Internal-combustion engine. No. 931,346; Aug. 17; Sp. p. 3653; Gaz. vol. 145; p. 630.
- Rung, H. H., assignor to one-half to R. F. Whitmer, Philadelphia, Pa. Tire-pump attachment. No. 944,213; Dec. 21; Sp. p. 4663; Gaz. vol. 149; p. 799.
- Runge, W. (See Darling and Runge.)
- Runge, W. C., Camden, N. J., assignor to Royal Phone and Phonogram Company, Boston, Mass. Mandrel for phonograph-records. No. 943,568; Dec. 14; Sp. p. 3283; Gaz. vol. 149; p. 553.
- Runk, H. V. (See Gotshall, J. M., assignor.)
- Runkel, F., and M. Herzberg, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Disazo dye. No. 932,812; Aug. 31; Sp. p. 6749; Gaz. vol. 145; p. 1157.
- Runkel, F., and M. Herzberg, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 932,813; Aug. 31; Sp. p. 6750; Gaz. vol. 145; p. 1158.
- Runkle, E. E., El Reno, Okla. Combination-lock. No. 929,712; Aug. 3; Sp. p. 151; Gaz. vol. 145; p. 27.
- Runnals, N. B., Pittsfield, Mo. Multiple-speed gearing. No. 912,418; Feb. 16; Sp. p. 2880; Gaz. vol. 139; p. 522.
- Runner, L., Montrose, Iowa. Non-refillable bottle. No. 932,498; Aug. 31; Sp. p. 6071; Gaz. vol. 145; p. 1052.
- Runnion, A., assignor to L. S. Goff and O. J. Chambers, Spencer, W. Va. Reversing-gear for engines. No. 912,893; Feb. 16; Sp. p. 3867; Gaz. vol. 139; p. 682.
- Runzel-Lenz Electric Manufacturing Company. (See Runzel, W. L., assignor.)
- Runzel, W. L., assignor to Runzel-Lenz Electric Manufacturing Company, Chicago, Ill. Telephone-switchboard cable. No. 919,384; Apr. 27; Sp. p. 5201; Gaz. vol. 141; p. 902.
- Rupert, M. H., Mount Pleasant, Pa. Window-screen. No. 920,659; May 4; Sp. p. 1146; Gaz. vol. 142; p. 186.
- Ruple, J. B., Rifle, Colo. Screw-driver. No. 935,341; Oct. 26; Sp. p. 5752; Gaz. vol. 147; p. 979.
- Rupley, D., South Whitley, Ind. Invalid-chair. No. 931,803; Aug. 24; Sp. p. 4619; Gaz. vol. 145; p. 801.
- Rupley, G. H., Schenectady, N. Y., assignor to General Electric Company. Wire-coating machine. No. 919,470; Apr. 27; Sp. p. 5411; Gaz. vol. 141; p. 932.
- Rupley, G. H., Schenectady, N. Y., assignor to General Electric Company. Insulating electric conductors. No. 919,644; Apr. 27; Sp. p. 5758; Gaz. vol. 141; p. 991.
- Rupp, J. (See Jacky and Rupp.)
- Rupp, N. J., Chicago, Ill. Greenhouse-roof construction. No. 930,696; Aug. 10; Sp. p. 2201; Gaz. vol. 145; p. 384.
- Ruppel, E. J., Baltimore, Md. Leather-stretcher. No. 909,123; Jan. 5; Sp. p. 1426; Gaz. vol. 138; p. 228.
- Ruppel, H., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Gas-burner. No. 931,654; Aug. 17; Sp. p. 4262; Gaz. vol. 145; p. 728.
- Ruppert, H. J., and C. V. Dodd, Elgin, Ill.; said Dodd assignor to said Ruppert. Combination pocket-knife and cigar-clip. No. 925,391; June 15; Sp. p. 4812; Gaz. vol. 143; p. 822.
- Ruppin, L., Lancaster, Pa. Aerial device. No. 927,815; July 13; Sp. p. 2315; Gaz. vol. 144; p. 399.
- Ruprecht, C., assignor, by mesne assignments, to Ruprecht Electrical Company, Cleveland, Ohio. Electric-current generator. No. 914,311; Mar. 2; Sp. p. 1388; Gaz. vol. 140; p. 216.
- Ruprecht Electrical Company. (See Ruprecht, C. C., assignor.)
- Rüsager, H. E., Copenhagen, Denmark. Apparatus for the treatment of stony or earthy materials. No. 933,669; Sept. 7; Sp. p. 1435; Gaz. vol. 146; p. 216.
- Rusby, J. H., Nutley, N. J. Electric switch. No. 939,863; Nov. 9; Sp. p. 3104; Gaz. vol. 148; p. 512.
- Rusby, W. G., Cuervo, N. Mex. Ter. Steam-cooker. No. 923,894; June 8; Sp. p. 1777; Gaz. vol. 143; p. 296.
- Rush, A., Columbus, Ohio. Flexible shutter or curtain. No. 926,139; June 29; Sp. p. 6390; Gaz. vol. 143; p. 1134.
- Rush, A., Columbus, Ohio. Roller for flexible shutters or curtains. No. 929,885; Aug. 3; Sp. p. 570; Gaz. vol. 145; p. 89.
- Rush, A., assignor to Kinnear Manufacturing Company, Columbus, Ohio. Automatically-closing fire-shutter. No. 910,234; Jan. 19; Sp. p. 3653; Gaz. vol. 138; p. 664.
- Rush, A., assignor to Kinnear Manufacturing Company, Columbus, Ohio. Automatically-closing fire-shutter. No. 926,138; June 29; Sp. p. 6388; Gaz. vol. 143; p. 1133.
- Rush, E., Vincennes, Ind. Railway-switch. No. 909,682; Jan. 12; Sp. p. 2513; Gaz. vol. 138; p. 446.
- Rush, F. J., New York, N. Y., assignor to Home Specialty Manufacturing Company. Window-guard. No. 936,041; Oct. 5; Sp. p. 928; Gaz. vol. 147; p. 140.
- Rush, J. D., Phillipsburg, N. J. Vegetable displaying and cooling cabinet. No. 924,500; June 8; Sp. p. 3022; Gaz. vol. 143; p. 493.
- Rush, J. K., Canandaigua, N. Y. Feeding device for acetylene-generators. No. 908,700; Jan. 5; Sp. p. 571; Gaz. vol. 138; p. 89.
- Rush, W. A., Rome, Ga. Cotton-chopper. No. 921,167; May 11; Sp. p. 2183; Gaz. vol. 142; p. 384.
- Rusnak, J. (See Engliert, A. F., assignor.)
- Russ Automatic Labeling Co. (See Russ, G. F., assignor.)
- Russ, F. A. (See Russ, J. B., assignor.)
- Russ, F. A., Greenwich, Conn. Buckle. No. 944,505; Dec. 28; Sp. p. 5332; Gaz. vol. 149; p. 929.
- Russ, G. F., Hoboken, N. J., assignor to Russ Automatic Labeling Co., New York, N. Y. Can-labeling machine. No. 938,897; Nov. 2; Sp. p. 978; Gaz. vol. 148; p. 154.
- Russ, J. B., Derby, assignor to F. A. Russ, Greenwich, Conn. Suspender-buckle. No. 919,959; Apr. 27; Sp. p. 6412; Gaz. vol. 141; p. 1095.
- Russ, J. B., Shelton, and C. H. Poland, Bridgeport, assignors to Robert N. Bassett Company, Shelton, Conn. Electroplating apparatus. No. 925,599; June 22; Sp. p. 5236; Gaz. vol. 143; p. 921.
- Russ, J. D., assignor of thirteen forty-eighths to A. J. Lyons and five-twelfths to F. F. McIntosh, Spencer, W. Va. Single-trigger mechanism. No. 914,516; Mar. 9; Sp. p. 1816; Gaz. vol. 140; p. 310.
- Russ, J. D., assignor of one-sixth to A. J. Lyons and five-twelfths to F. F. McIntosh, Spencer, W. Va. Single-trigger mechanism for double-barrel guns. No. 942,794; Dec. 7; Sp. p. 1566; Gaz. vol. 149; p. 258.
- Russell, J., St. Louis, Mo. Socket for fan-blades. No. 925,030; June 15; Sp. p. 4153; Gaz. vol. 143; p. 706.
- Russell, J., St. Louis, Mo. Fan. No. 925,031; June 15; Sp. p. 4154; Gaz. vol. 143; p. 707.
- Russell, A. (See Folsom and Russell.)
- Russell, A., Merchantville, N. J. Advertising-sign. No. 938,710; Nov. 2; Sp. p. 570; Gaz. vol. 148; p. 89.
- Russell, A. J. and W. H., Bryan, Ohio. Gate-latch. No. 927,079; July 6; Sp. p. 803; Gaz. vol. 144; p. 128.
- Russell, A. M., Montreal, Quebec, Canada. Can-opener. No. 911,449; Feb. 2; Sp. p. 811; Gaz. vol. 139; p. 142.
- Russell, B. F., Estesmill, Miss. Cultivator. No. 918,702; Apr. 20; Sp. p. 3636; Gaz. vol. 141; p. 644.
- Russell, C. H., Torrington, Wyo. Automatic cleaner for push-rakes. No. 914,517; Mar. 9; Sp. p. 1820; Gaz. vol. 140; p. 310.
- Russell, C. W., Detroit, Mich. Dump-car. No. 918,092; Apr. 13; Sp. p. 2304; Gaz. vol. 141; p. 413.
- Russell, C. W., Detroit, Mich. Bunk for logging-cars. No. 932,583; Aug. 31; Sp. p. 6255; Gaz. vol. 145; p. 1082.
- Russell, D. B., assignor of fifty-one one-hundredths to J. B. Keyser, Salt Lake City, Utah. Attaching and releasing device. No. 913,673; Feb. 23; Sp. p. 5494; Gaz. vol. 139; p. 967.
- Russell, D. R., St. Louis, Mo. Retort-bench. No. 930,494; Aug. 10; Sp. p. 1748; Gaz. vol. 145; p. 315.
- Russell, D. R., assignor to Parker-Russell Mining & Manufacturing Company, St. Louis, Mo. Continuous vertical retort. No. 917,363; Apr. 6; Sp. p. 827; Gaz. vol. 141; p. 141.
- Russell, E. E., Los Angeles, Cal. Antiseptic card, ticket, and package delivering case. No. 930,619; Aug. 10; Sp. p. 2051; Gaz. vol. 145; p. 359.
- Russell & Erwin Manufacturing Company. (See Andrus and Rause, assignors.)
- Russell & Erwin Manufacturing Company. (See Peterson, J. A., assignor.)
- Russell & Erwin Manufacturing Company. (See Voight, H. G., assignor.)
- Russell, F. C., assignor to J. H. Sponseller, Canton, Ohio. Door-check. No. 943,791; Dec. 21; Sp. p. 3783; Gaz. vol. 149; p. 659.
- Russell, F. J., New York, N. Y. Electrical sign-receptacle. No. 917,145; Apr. 6; Sp. p. 385; Gaz. vol. 141; p. 67.
- Russell, F. J., New York, N. Y. Weatherproof electrical receptacle. No. 928,282; July 20; Sp. p. 3317; Gaz. vol. 144; p. 586.
- Russell, F. J., New York, N. Y. Electrical receptacle. No. 941,276; Nov. 23; Sp. p. 6255; Gaz. vol. 148; p. 1047.
- Russell, F. K., assignor to F. K. Russell Machine Co., Dallas, Tex. Leather-working machine. No. 922,195; May 18; Sp. p. 4312; Gaz. vol. 142; p. 752.
- Russell, F. M., and A. J. Jung, London, England. Mechanism for indicating and recording the movements of ships' helms. No. 941,955; Nov. 30; Sp. p. 7692; Gaz. vol. 148; p. 1296.
- Russell, F. W., Redditch, H. G. Atkinson, Handsworth, and F. E. Baker, Northfield, England. Mechanical counting-machine. No. 932,331; Aug. 24; Sp. p. 5716; Gaz. vol. 145; p. 976.
- Russell, G. E., Longbeach, Cal. Shoe-brushing machine. No. 936,948; Oct. 12; Sp. p. 2791; Gaz. vol. 147; p. 466.
- Russell, H. J., Glens Falls, N. Y. Dumping-bucket. No. 914,753; Mar. 9; Sp. p. 2323; Gaz. vol. 140; p. 389.
- Russell, H. M., Jr., Wheeling, W. Va. Sliding-gear mechanism. No. 935,328; Sept. 28; Sp. p. 4731; Gaz. vol. 146; p. 839.
- Russell, I. H., Washington, D. C. Ambulance. No. 910,728; Jan. 26; Sp. p. 4695; Gaz. vol. 138; p. 854.
- Russell, J., assignor of one-half to J. H. Milligan, Langlaagte, near Johannesburg, Transvaal. Apparatus for recording bell or like signals, especially applicable to mines. No. 938,516; Nov. 2; Sp. p. 170; Gaz. vol. 148; p. 24.



*Alphabetical list of patentees—Continued.*

- Russell, J. G., Stewart, Ohio. Well-drilling machine. No. 910,235; Jan. 19; Sp. p. 3655; Gaz. vol. 138; p. 664.
- Russell, J. H., Woodbury, N. J., assignor to Welsbach Light Company, Philadelphia, Pa. Mantle-box. No. 914,189; Mar. 2; Sp. p. 1152; Gaz. vol. 140; p. 179.
- Russell, J. J., New York, N. Y. Device for fastening rails to ties. No. 923,708; June 1; Sp. p. 1318; Gaz. vol. 143; p. 204.
- Russell, J. W., Boston, Mass. Snow-plow. No. 927,682; July 13; Sp. p. 2041; Gaz. vol. 144; p. 355.
- Russell, J. W., and T. E. Neylon, Renovo, Pa. Oil and gas furnace. No. 916,787; Mar. 30; Sp. p. 6326; Gaz. vol. 140; p. 1130.
- Russell, M. C., Eau Claire, Wis. Log and lumber car. No. 934,362; Sept. 14; Sp. p. 2806; Gaz. vol. 146; p. 468.
- Russell, R. C., Arthur, Ontario, Canada, assignor of one-fourth to G. T. Griffiths, Columbus, Ohio. Grain-door for cars. No. 942,221; Dec. 7; Sp. p. 417; Gaz. vol. 149; p. 64.
- Russell, R. E., Schenectady, N. Y., assignor to General Electric Company. Multiple operation of vapor electric devices. No. 921,893; May 18; Sp. p. 3706; Gaz. vol. 142; p. 654.
- Russell, S. S., Columbia, S. C. Quilting-frame. No. 940,070; Nov. 16; Sp. p. 3596; Gaz. vol. 148; p. 615.
- Russell, S. T., Springfield, Ohio. Acetylene-gas generator. No. 926,292; June 29; Sp. p. 6711; Gaz. vol. 143; p. 1184.
- Russell, W. E., Stafford, England. Type-writer. No. 934,218; Sept. 14; Sp. p. 2537; Gaz. vol. 146; p. 419.
- Russell, W. H. (See Russell, A. J. and W. H.)
- Russell, W. T., Wellesley, Mass. Lamp-guard. No. 914,190; <sup>1</sup>/<sub>2</sub> Tr. 2; Sp. p. 1153; Gaz. vol. 140; p. 180.
- Russell, W. T., Wellesley, Mass. Strainer. No. 925,032; June 15; Sp. p. 4157; Gaz. vol. 143; p. 707.
- Russell, W. T., Wellesley, Mass. Portable lamp-guard. No. 943,792; Dec. 21; Sp. p. 3785; Gaz. vol. 149; p. 659.
- Russia Cement Company. (See Phillips, N. C., assignor.)
- Russler, G. J., Pittsburg, Pa. Fork. No. 923,709; June 1; Sp. p. 1319; Gaz. vol. 143; p. 204.
- Rust, I. C., assignor of one-fourth to C. A. Mendenhall and one-fourth to E. J. Mendenhall, Farmland, Ind. Mechanical movement. No. 913,918; Mar. 2; Sp. p. 559; Gaz. vol. 140; p. 87.
- Rust, I. C., assignor of one-fourth to C. A. Mendenhall and one-fourth to E. J. Mendenhall, Farmland, Ind. Windmill mechanism. No. 936,568; Oct. 12; Sp. p. 2046; Gaz. vol. 147; p. 338.
- Rust, J. H., assignor to White Company, Cleveland, Ohio. Ventilated cushion. No. 934,465; Sept. 21; Sp. p. 3019; Gaz. vol. 146; p. 526.
- Rust, R. K., New York, N. Y. Pipe-joint. No. 935,412; Sept. 28; Sp. p. 4596; Gaz. vol. 146; p. 866.
- Rustad, T., Erskine, assignor of one-half to A. F. Vollom, Minneapolis, Minn. Land-clearing machine. No. 934,363; Sept. 14; Sp. p. 2907; Gaz. vol. 146; p. 468.
- Rustin, E., Atlanta, Ga. File. No. 926,829; July 6; Sp. p. 263; Gaz. vol. 144; p. 42.
- Rutan, A. N., Elmira, N. Y. Valve. No. 918,918; Apr. 20; Sp. p. 4085; Gaz. vol. 141; p. 716.
- Ruth, A. J., Valer, Pa. Rotary engine. No. 922,047; May 18; Sp. p. 4029; Gaz. vol. 142; p. 704.
- Ruth, C. H., Brawley, Cal. Excavating-machine. No. 910,864; Jan. 26; Sp. p. 4966; Gaz. vol. 138; p. 897.
- Ruth, F. H., *et al.* (See Ruth, J. P., assignor.)
- Ruth, J. P., assignor of two-thirds to J. A. Havener, Oneida, and F. H. Ruth, New York, N. Y. Folding ironing-table. No. 910,960; Jan. 26; Sp. p. 5152; Gaz. vol. 138; p. 928.
- Ruth, S. D., Terre Hill, Pa. Blacksmith's vise. No. 930,889; Aug. 10; Sp. p. 2617; Gaz. vol. 145; p. 448.
- Ruth, W. H. (See Flannigan and Ruth.)
- Ruth, W. T., assignor to American Road Machine Company, Kennett Square, Pa. Centering-machine. No. 943,467; Dec. 14; Sp. p. 3075; Gaz. vol. 149; p. 518.
- Ruthardt, H., Stuttgart, Germany. Magnet. No. 925,951; June 22; Sp. p. 5998; Gaz. vol. 143; p. 1036.
- Ruthenburg, M. (See Gorrell, C. W. F., assignor.)
- Ruthenburg, M., Lockport, N. Y. Ore-separating process. No. 933,491; Sept. 7; Sp. p. 1096; Gaz. vol. 146; p. 157.
- Rutherford, F. H. (See McKee, G. W., assignor.)
- Rutherford, F. H., Chicago, Ill. Connector for train-pipes. No. 908,701; Jan. 5; Sp. p. 577; Gaz. vol. 138; p. 90.
- Ruths, R. J., Baltimore, Md. Pneumatic tire. No. 928,334; July 20; Sp. p. 3430; Gaz. vol. 144; p. 604.
- Ruthven, A. T., Topeka, Kans. Burglar-alarm for suit-cases, satchels, &c. No. 919,385; Apr. 27; Sp. p. 5202; Gaz. vol. 141; p. 902.
- Ruthven, W., Chicago, Ill. Gearing for washing-machines. No. 935,551; Sept. 28; Sp. p. 5200; Gaz. vol. 146; p. 912.
- Ruthven, W., Chicago, Ill. Gearing for washing-machines. No. 935,552; Sept. 28; Sp. p. 5203; Gaz. vol. 146; p. 913.
- Ruthven, W., Chicago, Ill. Gearing for washing-machines. No. 935,553; Sept. 28; Sp. p. 5205; Gaz. vol. 146; p. 913.
- Rutishauser, O., St. Gallen, Switzerland. Device for automatically reversing the travel of type-writer ribbons. No. 936,257; Oct. 5; Sp. p. 1351; Gaz. vol. 147; p. 208.
- Rutland Machine & Automobile Company *et al.* (See Goddard, G. M., assignor.)
- Rutledge, J. T., Easthampton, Mass. Thin-plate preventer for looms. No. 924,190; June 8; Sp. p. 2387; Gaz. vol. 143; p. 391.
- Rutley, B. (See Hamilton, W. S., assignor.)
- Rutson, C., assignor to Jackson Cushion Spring Company, Jackson, Mich. Spring construction. No. 914,312; Mar. 2; Sp. p. 1390; Gaz. vol. 140; p. 216.
- Ruttan, A. R., Hillside, J. Adams, Scotia Junction, C. W. Ruttan, Ravensworth, and E. Ruttan, Mowat, Ontario, Canada. Metal cross-tie and rail fastener. No. 933,114; Sept. 7; Sp. p. 160; Gaz. vol. 146; p. 27.
- Ruttan, C. W. (See Ruttan, Adams, and Ruttan.)
- Ruttan, E. (See Ruttan, Adams, and Ruttan.)
- Rutter, T. V., Aurora, Neb. Stack and rick binder. No. 929,500; July 27; Sp. p. 5785; Gaz. vol. 144; p. 1015.
- Rutty, W. H. (See Murphy, W. B., assignor.)
- Ruwio, W., *et al.* (See Dible, C. M., assignor.)
- Ruwell, W. F. (See Williams, B. A., assignor.)
- Ryalls, J. H., Charlottesville, Va. Reversing mechanism for the band-cylinders of spinning-mules. No. 942,752; Dec. 7; Sp. p. 1486; Gaz. vol. 149; p. 244.
- Ryan, C., Sydney, New South Wales, Australia. Shirt-collar. No. 908,502; Jan. 5; Sp. p. 144; Gaz. vol. 138; p. 26.
- Ryan, C. B., Pittsburg, Pa. Removable crossover. No. 931,493; Aug. 17; Sp. p. 3940; Gaz. vol. 145; p. 680.
- Ryan Car Company. (See Ryan and Candlin, assignors.)
- Ryan Construction Company. (See Ryan, W. S., assignor.)
- Ryan, D. M., Cambridge, Kans. Spark-arrester. No. 918,703; Apr. 20; Sp. p. 3637; Gaz. vol. 141; p. 644.
- Ryan, E., Clinton, Iowa. Slack-adjuster for draw-bars. No. 929,114; July 27; Sp. p. 4993; Gaz. vol. 144; p. 888.
- Ryan, I. A., Ironton, Ohio. Automatic measuring and stop mechanism for wire and cable machines. No. 912,176; Feb. 9; Sp. p. 2341; Gaz. vol. 139; p. 465.
- Ryan, J., Somerville, Ala. Detachable ax. No. 911,075; Feb. 2; Sp. p. 106; Gaz. vol. 139; p. 19.
- Ryan, J., New York, N. Y. Wrench. No. 912,177; Feb. 9; Sp. p. 2344; Gaz. vol. 139; p. 405.
- Ryan, J. C., Gasport, N. Y. Spraying appliance. No. 912,894; Feb. 16; Sp. p. 3869; Gaz. vol. 139; p. 682.
- Ryan, J. G., Montreal, Quebec, Canada. Head-rest for beds. No. 942,354; Dec. 7; Sp. p. 683; Gaz. vol. 149; p. 110.
- Ryan, J. H., and J. F. O'Toole, Pittsburg, Pa. Drying-machine. No. 913,774; Mar. 2; Sp. p. 206; Gaz. vol. 140; p. 34.
- Ryan, J. J., Houston, Tex. Gravity-slide ash-pan. No. 944,506; Dec. 28; Sp. p. 5333; Gaz. vol. 149; p. 929.
- Ryan, J. R., Sault Ste. Marie, Mich. Poultry-feeder. No. 938,342; Oct. 26; Sp. p. 5753; Gaz. vol. 147; p. 979.
- Ryan, J. R., Sault Ste. Marie, Mich. Filing-cabinet. No. 942,414; Dec. 7; Sp. p. 796; Gaz. vol. 149; p. 129.
- Ryan, J. T. (See Budge, G. A., assignor.)
- Ryan, M., Beloit, Wis. Skirt-marker. No. 913,433; Feb. 23; Sp. p. 4959; Gaz. vol. 139; p. 888.
- Ryan, M. C., Oswego, N. Y. Shoe-rack. No. 914,313; Mar. 2; Sp. p. 1393; Gaz. vol. 140; p. 217.
- Ryan, M. C., Phoenix, assignor to J. H. Betts, New York, N. Y. Illuminated sign. No. 922,958; May 25; Sp. p. 5906; Gaz. vol. 142; p. 1029.
- Ryan, M. J., Haydenville, Mass. Faucet. No. 927,880; July 13; Sp. p. 2455; Gaz. vol. 144; p. 420.
- Ryan, M. L. (See Hightower, C., assignor.)
- Ryan, P. J., Spokane, Wash. Key-fastener. No. 942,753; Dec. 7; Sp. p. 1488; Gaz. vol. 149; p. 244.
- Ryan, R. M., New York, N. Y. Wrench. No. 925,513; June 22; Sp. p. 5072; Gaz. vol. 143; p. 892.
- Ryan, R. M., New York, N. Y. Tooth-brush holder. No. 928,542; July 20; Sp. p. 3825; Gaz. vol. 144; p. 671.
- Ryan, T. J. (See Waddell, M., assignor.)
- Ryan, W. J., and L. Tanning, New York, N. Y. Lock for davits. No. 935,413; Sept. 28; Sp. p. 4897; Gaz. vol. 146; p. 866.
- Ryan, W. M., and J. E. Candlin, assignors to Ryan Car Company, Chicago, Ill. Poultry-car. No. 910,865; Jan. 26; Sp. p. 4970; Gaz. vol. 138; p. 897.
- Ryan, W. S., Indianapolis, assignor to Ryan Construction Company, Muncie, Ind. Device for making an electrical circuit or circuits. No. 926,680; June 29; Sp. p. 7436; Gaz. vol. 143; p. 1311.
- Ryan, W. S., Indianapolis, assignor to Ryan Construction Company, Muncie, Ind. Circuit-controlling switch. No. 926,681; June 29; Sp. p. 7440; Gaz. vol. 143; p. 1312.
- Ryan, W. S., assignor to Ryan Construction Company, Muncie, Ind. Sign-displaying device. No. 926,682; June 29; Sp. p. 7444; Gaz. vol. 143; p. 1313.
- Rybar, F., New York, N. Y. Gas-burner. No. 919,645; Apr. 27; Sp. p. 5760; Gaz. vol. 141; p. 991.

*Alphabetical list of patentees—Continued.*

- Ryburg, E. P., and W. T. Bryan, Kansas City, Mo. Closure for receptacles. No. 923,895; June 8; Sp. p. 1778; Gaz. vol. 143; p. 296.
- Ryden, J. A., Omaha, Nebr. Hoof-nippers. No. 928,335; July 20; Sp. p. 3432; Gaz. vol. 144; p. 604.
- Ryder, A. L., Pasadena, Cal. Combination spark gap and plug. No. 933,115; Sept. 7; Sp. p. 161; Gaz. vol. 146; p. 27.
- Ryder, F. (See Evert and Ryder.)
- Ryder, S. G., assignor to Standard Tool Company, Cleveland, Ohio. Gage. No. 926,079; June 22; Sp. p. 6262; Gaz. vol. 143; p. 1079.
- Ryding, H. W., Falun, Kans. Dinner-pail. No. 935,692; Oct. 5; Sp. p. 148; Gaz. vol. 147; p. 24.
- Rydman, J. A., Fruitvale, Cal. Compass-ruler. No. 932,907; Aug. 31; Sp. p. 6913; Gaz. vol. 145; p. 1188.
- Rydquist, A., Rochester, N. Y. Uncapping-tool. No. 928,156; July 13; Sp. p. 2991; Gaz. vol. 144; p. 511.
- Rydquist, A., Rochester, N. Y. Pencil-sharpener. No. 942,107; Dec. 7; Sp. p. 160; Gaz. vol. 149; p. 25.
- Rydquist, A., Rochester, N. Y. Shelf-tongs. No. 944,214; Dec. 21; Sp. p. 4664; Gaz. vol. 149; p. 800.
- Ryer, C. F. (See Miller and Ryer.)
- Rykard, J. W., Abbeville, S. C. Sash-fastener. No. 911,076; Feb. 2; Sp. p. 107; Gaz. vol. 139; p. 20.
- Ryon, E. H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Shuttle-motion for looms. No. 911,334; Feb. 2; Sp. p. 610; Gaz. vol. 139; p. 105.
- Ryon, E. H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 932,178; Aug. 24; Sp. p. 5421; Gaz. vol. 145; p. 924.
- Ryon, E. H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 933,492; Sept. 7; Sp. p. 1097; Gaz. vol. 146; p. 157.
- Ryon, E. H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 935,693; Oct. 5; Sp. p. 150; Gaz. vol. 147; p. 24.
- Ryon, E. H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Dobby for looms. No. 936,479; Oct. 12; Sp. p. 1859; Gaz. vol. 147; p. 309.
- Ryon, E. H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Molding-machine. No. 936,569; Oct. 12; Sp. p. 2049; Gaz. vol. 147; p. 339.
- Ryon, E. H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Shuttle-changing loom. No. 936,949; Oct. 12; Sp. p. 2793; Gaz. vol. 147; p. 467.
- Ryon, E. H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Loom. No. 937,184; Oct. 19; Sp. p. 3297; Gaz. vol. 147; p. 574.
- Ryon, E. H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 939,326; Nov. 9; Sp. p. 1930; Gaz. vol. 148; p. 330.
- Ryon, E. H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Filling-thread-cutting mechanism. No. 939,445; Nov. 9; Sp. p. 2220; Gaz. vol. 148; p. 369.
- Ryon, E. H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Filling-detector mechanism for weft-replenishing looms. No. 939,954; Nov. 9; Sp. p. 3307; Gaz. vol. 148; p. 645.
- Ryon, E. H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 943,896; Dec. 21; Sp. p. 4003; Gaz. vol. 149; p. 695.
- Rypinski, M. C., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electrical coil. No. 936,669; Oct. 12; Sp. p. 2257; Gaz. vol. 147; p. 375.
- Ryrie, R. A., assignor of one-half to C. A. Rudolph, Camden, N. J. Wrench. No. 910,961; Jan. 26; Sp. p. 5153; Gaz. vol. 138; p. 929.
- Ryther, F. A., Chicago, Ill., assignor to International Harvester Company. Hay-press. No. 915,117; Mar. 16; Sp. p. 3026; Gaz. vol. 140; p. 534.
- Ryther, F. A., Chicago, Ill., assignor to International Harvester Company. Hay-press. No. 925,514; June 22; Sp. p. 5074; Gaz. vol. 143; p. 893.
- Ryther, F. A., Chicago, Ill., assignor to International Harvester Company. Grinding-mill. No. 932,179; Aug. 24; Sp. p. 5426; Gaz. vol. 145; p. 925.
- Ryther & Pringle Co. (See Baldwin, J. M., assignor.)
- S. Jarvis Adams Company. (See Gardner, R. J., assignor.)
- S. Karpen & Bros. (See Karpen, I., assignor.)
- S. Pearson and Son. (See Japp, H., assignor.)
- S. A. Eastman Company. (See Lothrop, F. C., assignor.)
- S. A. Woods Machine Company. (See Blood, C. W. H., assignor.)
- S. A. Woods Machine Company. (See Blood, C. W. H., assignor.) (Reissue.)
- S. F. Bowser & Company. (See Bowser, A. A., assignor.)
- S. R. Dresser Manufacturing Company. (See Clark, J., assignor.)
- S. R. Dresser Manufacturing Company. (See Smith and Boothe, assignors.)
- S. R. Dresser Manufacturing Company. (See White, G. H., assignor.)
- S. R. Smythe Company. (See Smythe, H. E., assignor.)
- S. S. White Dental Mfg. Co. (See Browne, A. W., assignor.)
- S. S. White Dental Mfg. Co. (See Savin and Harvey, assignors.)
- S. S. White Dental Mfg. Co. (See White, W. L., assignor.)
- S. B. R. Specialty Company. (See Raffalovich, L., assignor.)
- S. C. F. Machinery Company. (See Shields, H. A., assignor.)
- S4, B. M. de Rio de Janeiro, Brazil. Elastic tire for vehicle-wheels. No. 939,327; Nov. 9; Sp. p. 1933; Gaz. vol. 148; p. 330.
- S4, B. M. de Rio de Janeiro, N. J. Making pictures. No. 923,799; June 1; Sp. p. 1570; Gaz. vol. 143; p. 234.
- Saalsburg, C. W., East Orange, N. J., assignor to Van Dyck Gravure Company. Picture. No. 935,612; Sept. 28; Sp. p. 5319; Gaz. vol. 146; p. 936.
- Saam, E., assignor to Firm of Knoll and Company, Ludwigshafen-on-the-Rhine, Germany. Alpha-halogen-isovaleryl-urea and making the same. No. 914,518; Mar. 9; Sp. p. 1822; Gaz. vol. 140; p. 311.
- Sabathe, L. G., Paris, France. Internal-combustion engine. No. 918,704; Apr. 20; Sp. p. 3639; Gaz. vol. 141; p. 645.
- Sabathe, L. G., Paris, assignor to Societe des Moteurs Sabathe, Saint-Etienne, Loire, France. Means for mounting valves in engine-cylinders. No. 929,886; Aug. 3; Sp. p. 572; Gaz. vol. 145; p. 90.
- Sabbag, L. G., Boston, Mass. Drilling-machine. No. 944,915; Dec. 28; Sp. p. 6217; Gaz. vol. 149; p. 1069.
- Sabel, A. (See Foster, J. W., assignor.)
- Sabel, A. (See Hunter and Foster, assignors.)
- Sabey, E. L., Chicago, Ill. Car-seal. No. 936,042; Oct. 5; Sp. p. 930; Gaz. vol. 147; p. 140.
- Sabin, E. E., East Oakland, Cal. Glove. No. 923,374; June 1; Sp. p. 600; Gaz. vol. 143; p. 88.
- Sabo, J. H., Johnstown, Pa. Folding fruit-stand. No. 914,606; Mar. 9; Sp. p. 1998; Gaz. vol. 140; p. 341.
- Sabor, A., St. Louis, Mo. Box. No. 931,655; Aug. 17; Sp. p. 4264; Gaz. vol. 145; p. 728.
- Sabroe, T. T., Copenhagen, Denmark. Photographic-printing apparatus. No. 915,044; Mar. 9; Sp. p. 2852; Gaz. vol. 140; p. 483.
- Sachs Company. (See Hart and Reynolds, assignors.)
- Sachs Company. (See Morgan, V. F., assignor.)
- Sachs Company. (See Reynolds and Sachs, assignors.)
- Sachs, E., Schweinfurt, Germany. Grinding-machine. No. 918,769; Apr. 20; Sp. p. 3756; Gaz. vol. 141; p. 666.
- Sachs, E., Schweinfurt, Germany. Grinding-machine. No. 918,770; Apr. 20; Sp. p. 3759; Gaz. vol. 141; p. 667.
- Sachs, E., Schweinfurt, Germany. Ball-bearing. No. 926,771; July 6; Sp. p. 123; Gaz. vol. 144; p. 21.
- Sachs, J. (See Reynolds and Sachs.)
- Sachs, J. F. (See Krapf and Sachs.)
- Sächsische Haushaltungsmaschinenfabrik Gesellschaft mit beschränkter Haftung. (See Lauterbach, F. W., assignor.)
- Sachter, D. M., et al. (See Adams, G., assignor.)
- Sack, A., administratrix. (See Sack, H.)
- Sack, D. (See Peluso and Sack.)
- Sack, D., Vandergrift Heights, Pa. Boot or shoe upper. No. 939,639; Nov. 9; Sp. p. 2640; Gaz. vol. 148; p. 436.
- Sack, F., and F. A. Tyler, St. Mary, Nebr. Piano tuning-pin. No. 941,730; Nov. 30; Sp. p. 7221; Gaz. vol. 148; p. 1218.
- Sack, H., deceased, Düsseldorf, Germany; A. Sack, administratrix. Universal rolling-mill. No. 939,167; Nov. 2; Sp. p. 1537; Gaz. vol. 148; p. 249.
- Sack, H., deceased, Düsseldorf, Germany; A. Sack, administratrix. Rolling flanged bars. No. 939,168; Nov. 2; Sp. p. 1539; Gaz. vol. 148; p. 249.
- Sack, H., deceased, Düsseldorf, Germany; A. Sack, administratrix. Rolling-mill. No. 939,169; Nov. 2; Sp. p. 1541; Gaz. vol. 148; p. 249.
- Sack, H., deceased, Düsseldorf, Germany; A. Sack, administratrix. Universal rolls for rolling flanged bars. No. 939,170; Nov. 2; Sp. p. 1544; Gaz. vol. 148; p. 250.
- Sack, H., deceased, Düsseldorf, Germany; A. Sack, administratrix. Making channel-bars with taperless flanges. No. 939,171; Nov. 2; Sp. p. 1546; Gaz. vol. 148; p. 250.



*Alphabetical list of patentees—Continued.*

- Sack, H., deceased, Dusseldorf, Germany; A. Sack, administratrix. Universal rolling-mill. No. 939,172; Nov. 2; Sp. p. 1546; Gaz. vol. 148; p. 250.
- Sack, H., deceased, Dusseldorf, Germany; A. Sack, administratrix. Universal rolling-mill. No. 939,173; Nov. 2; Sp. p. 1549; Gaz. vol. 148; p. 251.
- Sackett, C. E., Danbury, Conn. Hat-brim press to form welt edges. No. 914,519; Mar. 9; Sp. p. 1823; Gaz. vol. 140; p. 311.
- Sackett, C. E., Danbury, Conn. Hat-brim-curling machine. No. 922,196; May 18; Sp. p. 4325; Gaz. vol. 142; p. 753.
- Sackett, C. E., Danbury, Conn. Hat-brim-curling machine. No. 922,959; May 25; Sp. p. 5908; Gaz. vol. 142; p. 1030.
- Sackett, C. E., Danbury, Conn. Shaping and setting hat-brims. No. 929,791; Aug. 3; Sp. p. 339; Gaz. vol. 145; p. 57.
- Sackett, C. E., Danbury, Conn. Hat-brim press to form welt edges. No. 934,219; Sept. 14; Sp. p. 2541; Gaz. vol. 146; p. 420.
- Sackett, C. E., Danbury, Conn. Hat-brim press to form welt edges. No. 936,364; Oct. 12; Sp. p. 1587; Gaz. vol. 147; p. 270.
- Sackett, J. L., Melrose, Mass. Mold. No. 913,057; Feb. 23; Sp. p. 4202; Gaz. vol. 139; p. 760.
- Sackett, J. W., Jacksonville, Fla. Swivel and extension connection for suction-pipes of hydraulic dredges. No. 933,116; Sept. 7; Sp. p. 163; Gaz. vol. 146; p. 28.
- Sacks, H., Chicago, Ill. Sleeve-protector. No. 925,952; June 22; Sp. p. 6000; Gaz. vol. 143; p. 1036.
- Sadler, L. E., assignor to F. H. Sadler Company, Attleboro, Mass. Finger-ring. No. 939,864; Nov. 9; Sp. p. 3107; Gaz. vol. 148; p. 513.
- Sadler, M. F. (See Edwards and Sadler.)
- Sadler, M. F., Durant, Okla. Horse-detaching device. No. 922,518; May 25; Sp. p. 4979; Gaz. vol. 142; p. 886.
- Sadtler, E. B., assignor to Coppridge Heater Corporation, Richmond, Va. Hot-water heater. No. 932,568; Aug. 31; Sp. p. 6914; Gaz. vol. 145; p. 1188.
- Saeger, C. M. (See Harding, W. H., assignor.)
- Saegmuller, G. M., Rochester, N. Y. Sighting attachment for transit-telescopes. No. 914,754; Mar. 9; Sp. p. 2324; Gaz. vol. 140; p. 389.
- Saegmuller, G. N., Rochester, N. Y. Solar attachment. No. 917,799; Apr. 13; Sp. p. 1677; Gaz. vol. 141; p. 311.
- Saegmuller, G. N., Rochester, N. Y. Surveying instrument. No. 917,800; Apr. 13; Sp. p. 1679; Gaz. vol. 141; p. 311.
- Safco Deposit and Trust Company of Baltimore *et al.*, executors. (See Mergenthaler, O.)
- Safe, T. S. (See Fowl and Safe.)
- Safety Appliance Company. (See Miller, J. A., assignor.)
- Safety-Armorite Conduit Company. (See Miller, C. H., assignor.)
- Safety Car Heating & Lighting Company. (See Allbee, E. E., assignor.)
- Safety Car Heating & Lighting Company. (See Collin, G. W., assignor.)
- Safety Car Heating & Lighting Company. (See Craveling, J. L., assignor.)
- Safety Car Heating & Lighting Company. (See Dixon, R. M., assignor.)
- Safety Car Heating & Lighting Company. (See Hulse, G. E., assignor.)
- Safety Car Heating & Lighting Company. (See Lungren, C. M., assignor.)
- Safety Car Heating & Lighting Company. (See Schepmoes, L., assignor.)
- Safety Car Heating & Lighting Company. (See Thomson, W. L., assignor.)
- Safety Car Heating & Lighting Company. (See Towne, J. M., assignor.)
- Safety Car Heating & Lighting Company. (See Towne and Allbee, assignors.)
- Safety Electric Railway Construction Company. (See Angle and Hecker, assignors.)
- Safety Electric Railway Construction Company. (See Hecker, L. R., assignor.)
- Safety Emery Wheel Company. (See Davis and Ross, assignors.)
- Safety Gas Lighter Co. (See Pomeroy, F. H., assignor.)
- Safety Window Company. (See Cooney, J., assignor.)
- Saffell, F. H., Alexandria, Va. Trap for beehives. No. 917,900; Apr. 13; Sp. p. 1895; Gaz. vol. 141; p. 344.
- Saffer, J. A. (See Robinson and Saffer.)
- Saftig, J. G., Seattle, Wash. Illuminating sign-lamp. No. 912,178; Feb. 9; Sp. p. 2345; Gaz. vol. 139; p. 405.
- Sage, A. H., and F. E. Mitchell, assignors to Liquid Vending Machine Company, Oshkosh, Wis. Liquid-vending machine. No. 936,365; Oct. 12; Sp. p. 1591; Gaz. vol. 147; p. 271.
- Sage, G. W., Eureka, Cal. Igniter. No. 932,332; Aug. 24; Sp. p. 5718; Gaz. vol. 145; p. 976.
- Sage, R. V., Westmont, Pa. Freight-car. No. 936,043; Oct. 5; Sp. p. 931; Gaz. vol. 147; p. 140.
- Sage, R. V., Westmont, Pa. Car-door mechanism. No. 942,108; Dec. 7; Sp. p. 162; Gaz. vol. 149; p. 25.
- Sagehomme, B. J., New York, N. Y. Amusement apparatus. No. 914,884; Mar. 9; Sp. p. 2586; Gaz. vol. 140; p. 431.
- Sagendorph, F. E., Philadelphia, Pa. Furring-strip. No. 939,749; Nov. 9; Sp. p. 2875; Gaz. vol. 148; p. 474.
- Sageng, H. O., Dalton, Minn. Threshing-machine. No. 931,347; Aug. 17; Sp. p. 3655; Gaz. vol. 145; p. 631.
- Sager, F. (See Hardenburg and Sager.)
- Sager, J. H., assignor to J. H. Sager Company, Rochester, N. Y. Automobile buffer-bar. No. 941,654; Nov. 30; Sp. p. 7055; Gaz. vol. 148; p. 1192.
- Sague, G., Poughkeepsie, N. Y. Pamphlet-coverer. No. 936,480; Oct. 12; Sp. p. 1864; Gaz. vol. 147; p. 309.
- Sahlin, J. M., Chicago, Ill. Wire-connector. No. 909,943; Jan. 19; Sp. p. 3048; Gaz. vol. 138; p. 565.
- Sailer, J. M., Janesville, Wis. Feeder for threshing-machines. No. 926,358; June 29; Sp. p. 6850; Gaz. vol. 143; p. 1205.
- Sailer and Whitmore Machine Company. (See Nash, W. C., assignor.)
- Saillot, A. L. E. (See Chapal, F. J., assignor.)
- Saitta, P. S. (See Allegra, V., assignor.)
- Sala, A., Mexico, Mexico. Spraying apparatus. No. 924,501; June 8; Sp. p. 3024; Gaz. vol. 143; p. 494.
- Sala, A., Mexico, Mexico. Method of and apparatus for atomizing, &c. No. 927,881; July 13; Sp. p. 2456; Gaz. vol. 144; p. 420.
- Saladin Pneumatic Maltng Construction Company. (See Luebker, O. H., assignor.)
- Salazar, T. (See Chapa, F. P., assignor.)
- Saldin, M., assignor to J. H. Boyce & Son, New York, N. Y. Undershirt and similar garment. No. 910,418; Jan. 19; Sp. p. 4063; Gaz. vol. 138; p. 728.
- Salem Fruit Company. (See Elliott, T. H., assignor.)
- Saleme, F. P. (See Shay and Saleme.)
- Sales Department, E. P. Gleason Manufacturing Company. (See Sherrer, W. G., assignor.)
- Sales, I. L., Exline, Iowa. Combined fastening device and fence-post. No. 917,154; Apr. 6; Sp. p. 401; Gaz. vol. 141; p. 70.
- Sales, T. J., San Francisco, Cal. Return-envelop. No. 913,919; Mar. 2; Sp. p. 540; Gaz. vol. 140; p. 87.
- Sales, T. J., San Francisco, Cal. Returnable envelop. No. 918,093; Apr. 13; Sp. p. 2306; Gaz. vol. 141; p. 414.
- Salina Foundry and Manufacturing Company. (See Jennings, C. M., assignor.)
- Salisbury, B. E., Syracuse, N. Y. Electric sign. No. 913,309; Feb. 23; Sp. p. 4718; Gaz. vol. 139; p. 845.
- Salisbury, C. V. (See Rhodes, B. O., assignor.)
- Salisbury, E. E., Chicago, Ill., assignor to Signalphone Alarm Company. Combined automatic signaling and telephone system. No. 921,894; May 18; Sp. p. 3707; Gaz. vol. 142; p. 654.
- Sallé, A. F., Paris, France. Means for producing theatrical effects. No. 922,722; May 25; Sp. p. 5403; Gaz. vol. 142; p. 952.
- Salles, G., Bordeaux, France. Boat-salvage device. No. 922,519; May 25; Sp. p. 4981; Gaz. vol. 142; p. 886.
- Sallows, J. F., assignor to Sallows Manufacturing Company, Lansing, Mich. Cable-grip. No. 940,732; Nov. 23; Sp. p. 5080; Gaz. vol. 148; p. 866.
- Sallows Manufacturing Company. (See Sallows, J. F., assignor.)
- Salmon, F. W., Burlington, Iowa. Bearing. No. 914,520; Mar. 9; Sp. p. 1828; Gaz. vol. 140; p. 311.
- Salmon, H. J., and J. Capper, Stockport, England. Rotary printing-machine. No. 919,471; Apr. 27; Sp. p. 5414; Gaz. vol. 141; p. 932.
- Salmon, P. W., *et al.* (See Roche, J., assignor.)
- Salmon, W. W., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Railway-signal. No. 934,631; Sept. 21; Sp. p. 3350; Gaz. vol. 146; p. 583.
- Salmond, H., Glasgow, Scotland. Change-speed gearing. No. 920,660; May 4; Sp. p. 1147; Gaz. vol. 142; p. 186.
- Salmons, R. B., *et al.* (See Tassey, J. C., assignor.)
- Saloch, R. C., St. Louis, Mo. Clock. No. 940,617; Nov. 16; Sp. p. 4806; Gaz. vol. 148; p. 801.
- Salois, J., Lawrence, Mass. Hinge-socket cutter. No. 911,909; Feb. 9; Sp. p. 1723; Gaz. vol. 139; p. 319.
- Salomon, F., assignor to Crypto Patents Limited, Liverpool, England. Tobacco-stripper. No. 919,297; Apr. 20; Sp. p. 5002; Gaz. vol. 141; p. 838.
- Salomone, D., Blythedale, Pa. Frog. No. 925,728; June 22; Sp. p. 5517; Gaz. vol. 143; p. 962.
- Salomonsqn, G., Berlin, Germany. Catalytic igniting apparatus. No. 924,835; June 15; Sp. p. 3741; Gaz. vol. 143; p. 640.
- Salpeters-Aure-Industrie-Gesellschaft, Ges. M. B. H., Firm of. (See Pauling, H., assignor.)
- Salisbury, H., London, England. Lamp. No. 942,589; Dec. 7; Sp. p. 1162; Gaz. vol. 149; p. 189.
- Salt, H. S., New York, N. Y., assignor to Dale Company. Adapter. No. 928,474; July 20; Sp. p. 3693; Gaz. vol. 144; p. 649.
- Salter, C. F., assignor to one-third to G. E. Helm, Knoxville, and one-third to H. C. Helm, Harriman, Tenn. Knockdown mounted dumping-grate. No. 929,713; Aug. 3; Sp. p. 153; Gaz. vol. 145; p. 27.

*Alphabetical list of patentees—Continued.*

- Salter, F. B., Trenton, N. J. Loss-preventing device for combs. No. 930,991; Aug. 10; Sp. p. 2846; Gaz. vol. 145; p. 480.
- Salter, W. K., and C. A. S. Hutchinson, Philadelphia, Pa. Advertising device. No. 908,702; Jan. 5; Sp. p. 581; Gaz. vol. 138; p. 90.
- Saltzman, J. (See Schumann and Prepejchal, assignors.)
- Salzer, H. M., Newark, N. J., assignor to American Perforated Music Co. Apparatus for perforating master music-sheets. No. 918,375; Apr. 13; Sp. p. 2858; Gaz. vol. 141; p. 506.
- Salzer, H. M., Newark, N. J., assignor to American Perforated Music Company. Perforating apparatus. No. 918,376; Apr. 13; Sp. p. 2863; Gaz. vol. 141; p. 507.
- Salzer, B., and G. Walther, Chemnitz, Germany. Straight-bar knitting-machine. No. 916,492; Mar. 30; Sp. p. 5768; Gaz. vol. 140; p. 1039.
- Salzer, B., and G. Walther, Chemnitz, Germany. Lace-pattern mechanism for straight-knitting machines. No. 939,328; Nov. 9; Sp. p. 1935; Gaz. vol. 148; p. 330.
- Salzman, C. A., Troy, assignor of one-half to E. P. Kennel, Troy, Ohio. Biscuit-cabinet. No. 930,089; Aug. 3; Sp. p. 982; Gaz. vol. 145; p. 159.
- Sampere, J., New York, N. Y., assignor to Regina Company, Rahway, N. J. Support for bellows. No. 936,670; Oct. 12; Sp. p. 2257; Gaz. vol. 147; p. 375.
- Sampere, J., New York, N. Y., assignor to Regina Company, Rahway, N. J. Automatic-piano attachment. No. 940,072; Nov. 16; Sp. p. 3611; Gaz. vol. 148; p. 615.
- Sample, A. C., Ironton, Ohio. Refrigerator. No. 911,843; Feb. 9; Sp. p. 1597; Gaz. vol. 139; p. 296.
- Sample, E., Stewartsville, Mo. Tilting gate. No. 913,434; Feb. 23; Sp. p. 4960; Gaz. vol. 139; p. 888.
- Sample, W. S. (See Eken, A. J., assignor.)
- Sampson, E. G., assignor to Art Metal Construction Company, Jamestown, N. Y. Lock for drawers of cabinets. No. 921,895; May 18; Sp. p. 3718; Gaz. vol. 142; p. 655.
- Sampson, E. G., assignor to Art Metal Construction Company, Jamestown, N. Y. File-holder. No. 924,690; June 15; Sp. p. 3436; Gaz. vol. 143; p. 591.
- Sampson, R., Montreal, Quebec, Canada. Tire-plug. No. 923,896; June 8; Sp. p. 1779; Gaz. vol. 143; p. 296.
- Samson Iron Works. (See Kroyer, J. M., assignor.)
- Samsonoff, J., New York, N. Y. Drafting instrument. No. 918,599; Apr. 20; Sp. p. 3341; Gaz. vol. 141; p. 607.
- Samuel C. Tatum Company. (See Mendenhall, W. S., assignor.)
- Samuel Cupples Envelope Company. (See Kienast, T. W., assignor.)
- Samuel Cupples Woodenware Company. (See Lackey, A., assignor.)
- Samuel E. Jordan Brush Company. (See Cummings, H. H., assignor.)
- Samuel, L., Chicago, Ill. Truck-wheel-blocking device. No. 940,365; Nov. 16; Sp. p. 4255; Gaz. vol. 148; p. 717.
- Samuel, L. S. and M., Newark, N. J. Composite sheet of material. No. 937,871; Oct. 26; Sp. p. 4740; Gaz. vol. 147; p. 819.
- Samuel, M. (See Samuel, L. S. and M.)
- Samuel, M. B., Philadelphia, Pa. Card-table. No. 940,283; Nov. 16; Sp. p. 4070; Gaz. vol. 148; p. 690.
- Samuel, M. R. A. (See Lockwood and Samuel.)
- Samuel, M. R. A., and A. A. Lockwood, assignors to Karsam Soap Company, Limited, London, England. Manufacture of soap or mixtures containing soap. No. 918,705; Apr. 20; Sp. p. 3640; Gaz. vol. 141; p. 645.
- Samuel Ward Company. (See Moore, M. W., assignor.)
- Samuels, E. B., Deatsville, Ky. Electric block railway-signal. No. 926,022; June 22; Sp. p. 6136; Gaz. vol. 143; p. 1059.
- Samuels, J., New York, N. Y. Street-car transfer. No. 917,492; Apr. 6; Sp. p. 1049; Gaz. vol. 141; p. 183.
- Samuelson, F., Rugby, England, assignor to General Electric Company. Liquid seal for rotary apparatus. No. 924,836; June 15; Sp. p. 3744; Gaz. vol. 143; p. 640.
- San Gabriel Valley Fruit Products Company. (See Sheehan, E. J., assignor.)
- San Telmo Cigar Mfg. Company. (See Helms, R., assignor.)
- Sanborn, E., Portland, Me. Stopple-puller. No. 923,897; June 8; Sp. p. 1780; Gaz. vol. 143; p. 296.
- Sanborn, E. E., Lynn, Mass. Binding-nicking machine. No. 942,934; Dec. 14; Sp. p. 1921; Gaz. vol. 149; p. 336.
- Sanborn, J. P., Cleveland, Ohio, assignor to Natura Company. Rectal apparatus. No. 942,590; Dec. 7; Sp. p. 1164; Gaz. vol. 149; p. 189.
- Sanborn, P. G., San Francisco, and W. A. Hesse, Alameda, Cal. Boat-davit. No. 915,118; Mar. 16; Sp. p. 3029; Gaz. vol. 140; p. 535.
- Sanborn, W. G., Rockford, Ill. Chuck. No. 933,923; Sept. 14; Sp. p. 1960; Gaz. vol. 146; p. 323.
- Sanborn, W. J., Palisades, Colo. Cultivator. No. 944,215; Dec. 21; Sp. p. 4668; Gaz. vol. 149; p. 800.
- Sanborn, W. S., Belmont, assignor to National Brake and Clutch Company, Boston, Mass. Sectional sash-weight. No. 915,223; Mar. 16; Sp. p. 3251; Gaz. vol. 140; p. 568.
- Sanborn, W. S., Belmont, assignor to National Brake and Clutch Company, Boston, Mass. Sectional window-weight. No. 924,837; June 15; Sp. p. 3745; Gaz. vol. 143; p. 641.
- Sanchez, F. S., *et al.* (See Waring, J. B., assignor.)
- Sandahl, V., New York, N. Y., assignor to L. W. Beecher, New Haven, Conn. Sewing-machine. No. 922,048; May 18; Sp. p. 4031; Gaz. vol. 142; p. 704.
- Sandahl, V., New York, N. Y., assignor to L. W. Beeches, New Haven, Conn. Machine for nailing shoes. No. 942,591; Dec. 7; Sp. p. 1165; Gaz. vol. 149; p. 190.
- Sandberg, J. R., Denver, Colo. Combined breast-drill and valve-grinder. No. 930,620; Aug. 10; Sp. p. 2052; Gaz. vol. 145; p. 360.
- Sandborgh, O. A., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Magnetic arc-extinguishing means. No. 934,573; Sept. 21; Sp. p. 3215; Gaz. vol. 146; p. 561.
- Sandell, H. K., assignor to H. S. Mills, Chicago, Ill. Film-winding mechanism for kinetoscopes and the like. No. 916,788; Mar. 30; Sp. p. 6327; Gaz. vol. 140; p. 1130.
- Sandell, H. K., assignor to Mills Novelty Company, Chicago, Ill. Electrical contact-brush. No. 916,789; Mar. 30; Sp. p. 6329; Gaz. vol. 140; p. 1131.
- Sander, F. (See Conrad and Sander.)
- Sander, F. (See Conrad, Sander, and Wright.)
- Sander, F., New York, assignor to American Numbering Machine Company, Brooklyn, N. Y. Numbering-machine. No. 910,866; Jan. 26; Sp. p. 4973; Gaz. vol. 138; p. 898.
- Sander, H. C., Newark, N. J. Meat-chopper. No. 930,799; Aug. 10; Sp. p. 2411; Gaz. vol. 145; p. 418.
- Sanders, A., New York, N. Y. Chair. No. 918,706; Apr. 20; Sp. p. 3641; Gaz. vol. 141; p. 645.
- Sanders, A., assignor of one-half to J. G. Rosen, New York, N. Y. Time-limit annunciator and register. No. 908,503; Jan. 5; Sp. p. 145; Gaz. vol. 138; p. 26.
- Sanders, A., and C. M. Rebman, Okemah, Okla. Side-board attachment for wagons. No. 941,956; Nov. 30; Sp. p. 7696; Gaz. vol. 148; p. 1297.
- Sanders, C. W., Chicago, Ill. Paper-clip. No. 912,895; Feb. 16; Sp. p. 3870; Gaz. vol. 139; p. 682.
- Sanders, E. E. (See Bertsch, C. H., assignor.)
- Sanders, E. E., Freeport, Ill. Match-safe. No. 909,026; Jan. 5; Sp. p. 1216; Gaz. vol. 138; p. 195.
- Sanders, E. E., Freeport, Ill. Horse-detacher. No. 912,032; Feb. 9; Sp. p. 2063; Gaz. vol. 139; p. 359.
- Sanders, E. M., Nashville, Tenn. Needle. No. 925,953; June 22; Sp. p. 6001; Gaz. vol. 143; p. 1036.
- Sanders, H. E., Zanesville, Ohio. Bottle-filling apparatus. No. 917,155; Apr. 6; Sp. p. 403; Gaz. vol. 141; p. 70.
- Sanders, H. E., Zanesville, Ohio. Case for milk-bottles. No. 917,156; Apr. 6; Sp. p. 404; Gaz. vol. 141; p. 70.
- Sanders, H. F., Oakland, Cal. Awning. No. 925,231; June 15; Sp. p. 4534; Gaz. vol. 143; p. 774.
- Sanders, J. A., Cayuga, Ind. Metal drain-pipe. No. 909,027; Jan. 5; Sp. p. 1217; Gaz. vol. 138; p. 195.
- Sanders, J. L., Enschede, Netherlands. Cleaning-machine for spoons, forks, &c. No. 923,710; June 1; Sp. p. 1320; Gaz. vol. 143; p. 204.
- Sanders, R. C., Pierre, S. D. Lawn-sprinkler. No. 912,493; Feb. 16; Sp. p. 3026; Gaz. vol. 139; p. 547.
- Sanders, R. L., assignor of one-fourth to G. O. Mathews and one-fourth to J. J. Long, Mobetie, Tex. Bottle. No. 917,665; Apr. 6; Sp. p. 1361; Gaz. vol. 141; p. 240.
- Sanders, W., Springfield, Mo. Vibratory churn. No. 923,375; June 1; Sp. p. 602; Gaz. vol. 143; p. 88.
- Sanders, W. B., assignor of one-half to G. Stuart, Meadowview, Va. Saw-tooth holder. No. 930,235; Aug. 3; Sp. p. 1258; Gaz. vol. 145; p. 207.
- Sanders, W. C. (See White and Sanders.)
- Sanders, W. H., Orange, Mass. Distributer. No. 913,169; Feb. 23; Sp. p. 4429; Gaz. vol. 139; p. 799.
- Sanders, W. M., Marion, Ky. Apparatus for concentrating ores. No. 911,077; Feb. 2; Sp. p. 108; Gaz. vol. 139; p. 20.
- Sanderson, H., Ben Rhydding, R. J. Isaacson, Ilkley, and H. S. Sanderson, Ben Rhydding, England. Valve-gear. No. 915,224; Mar. 16; Sp. p. 3253; Gaz. vol. 140; p. 568.
- Sanderson, H. J., assignor of one-fourth to W. D. Sanderson, Cowansville, Pa. Mail-bag deliverer. No. 940,618; Nov. 16; Sp. p. 4807; Gaz. vol. 148; p. 801.
- Sanderson, H. S. (See Sanderson, Isaacson, and Sanderson.)
- Sanderson, J. G. (See Sturges, C. B., assignor.)
- Sanderson & Porter. (See Boyle, J. M., assignor.)
- Sanderson, W. D. (See Sanderson, H. J., assignor.)
- Sanderson, W. H., Virden, Manitoba, Canada. Rail-joint. No. 920,661; May 4; Sp. p. 1150; Gaz. vol. 142; p. 186.



*Alphabetical list of patentees—Continued.*

- Sandham, R. R., Omaha, Nebr. Spraying attachment for bath-tubs. No. 917,157; Apr. 6; Sp. p. 405; Gaz. vol. 141; p. 71.
- Sandie, R. (See Fendring, H. E., assignor.)
- Sandiford, G. W., Mobile, assignor of one-fourth to J. R. Tapia and one-fourth to J. I. Clemmons, Mobile county, Ala. Trolley-guard. No. 918,377; Apr. 13; Sp. p. 2872; Gaz. vol. 141; p. 507.
- Sandison, W. M., Ashfield, Ayton, Scotland, assignor of one-half to H. G. McKerrow, Newton, Mass. Preventing and laying of dust through the application to roads or road material of an aqueous emulsion of oil. (Reissue.) No. 13,024; Sept. 28; Sp. p. 5356; Gaz. vol. 146; p. 940.
- Sandmann, D., Berlin, Germany. Rubber. No. 935,414; Sept. 28; Sp. p. 4900; Gaz. vol. 146; p. 866.
- Sandner, H., Union Hill, N. J. Piano-pedal mounting. No. 909,683; Jan. 12; Sp. p. 2515; Gaz. vol. 138; p. 446.
- Sandoe, L. A., Hope, Ark. Hoe-seeder. No. 936,366; Oct. 12; Sp. p. 1599; Gaz. vol. 147; p. 272.
- Sandor, H. A., London, England. Driving mechanism. No. 927,882; July 13; Sp. p. 2461; Gaz. vol. 144; p. 420.
- Sandoz, H., assignor to Tavannes Watch Co., Tavannes, Berne, Switzerland. Watch movement. No. 922,197; May 18; Sp. p. 4331; Gaz. vol. 142; p. 753.
- Sandoz-Sutter, J., Neuchatel, Switzerland. Automatic cleaning device for tramway-rails. No. 928,543; July 20; Sp. p. 3827; Gaz. vol. 144; p. 671.
- Sands, H. Z. (See Sweet, B. W., assignor.)
- Sands, L. C., Pittsburg, Pa. Tubular drill-stem for hydraulic rotary drilling apparatus. No. 940,733; Nov. 23; Sp. p. 5080; Gaz. vol. 148; p. 866.
- Sands, L. C., assignor to Oil Well Supply Company, Pittsburg, Pa. Sand-reel. No. 938,609; Nov. 2; Sp. p. 377; Gaz. vol. 148; p. 56.
- Sands, T. J., Winoski, Vt. Warp-beam head. No. 927,005; July 6; Sp. p. 623; Gaz. vol. 144; p. 101.
- Sands, W. W., San Angelo, Tex. Powder-ejector. No. 935,415; Sept. 28; Sp. p. 4901; Gaz. vol. 146; p. 866.
- Sandstrom, E., Philadelphia, Pa. Refuse-can. No. 925,232; June 15; Sp. p. 4536; Gaz. vol. 143; p. 774.
- Sandstrom, T., Indianapolis, Ind. Short-turn vehicle-gear. No. 920,662; May 4; Sp. p. 1151; Gaz. vol. 142; p. 187.
- Sandvig, K. M., Bertha, N. D. Plastering-trowel. No. 936,171; Oct. 5; Sp. p. 1203; Gaz. vol. 147; p. 182.
- Sandvoss, H., Dusseldorf, Germany. Temperature-regulator. No. 934,632; Sept. 21; Sp. p. 3352; Gaz. vol. 146; p. 583.
- Sandwich Electric Company. (See Rugh, H. O., assignor.)
- Sandy Hill Iron and Brass Works. (See Packer, J. W., assignor.)
- Sandy, W. J. L., London, England. Electrolyte for use in electric batteries. No. 940,734; Nov. 23; Sp. p. 5082; Gaz. vol. 148; p. 867.
- Saner, S., Bellinzona, Switzerland. Centering-tool. No. 918,378; Apr. 13; Sp. p. 2873; Gaz. vol. 141; p. 508.
- Sanfason, J., Medford N. D. Hub construction for grindstones. No. 922,049; May 18; Sp. p. 4034; Gaz. vol. 142; p. 705.
- Sanford & Bennett Company. (See Sanford, W. W., assignor.)
- Sanford, C. C. (See Smith and Sanford.)
- Sanford, C. E., New York, N. Y. Clock-case. No. 929,023; July 27; Sp. p. 4805; Gaz. vol. 144; p. 859.
- Sanford, C. E., New York, N. Y. Clock. No. 929,024; July 27; Sp. p. 4806; Gaz. vol. 144; p. 859.
- Sanford, F. W., Chicago, Ill., assignor of one-half to H. C. Wirt, Burrage, Mass. Electrical switch. No. 919,472; Apr. 27; Sp. p. 5416; Gaz. vol. 141; p. 932.
- Sanford, F. W., Boston, and N. Marshall, assignors, by mesne assignments, to N. Marshall, Newton, Mass. Metal-working machine. No. 940,618; Nov. 16; Sp. p. 4809; Gaz. vol. 148; p. 802.
- Sanford, J. A. (See Smith and Sanford.)
- Sanford, J. R. (See Doughty and Sanford.)
- Sanford, J. R., and J. G. Doughty, assignors to Flexible Rubber Goods Company, Winsted, Conn. Tire-tread. No. 929,632; July 27; Sp. p. 6052; Gaz. vol. 144; p. 1059.
- Sanford, R. G., Yonkers, N. Y. Combined odometer and speedometer. No. 919,776; Apr. 27; Sp. p. 6022; Gaz. vol. 141; p. 1035.
- Sanford, W. W., Newark, N. J., assignor to Sanford & Bennett Company, New York, N. Y. Reservoir-pen. No. 941,466; Nov. 30; Sp. p. 6669; Gaz. vol. 148; p. 1130.
- Sangamo Electric Company. (See Lanphier, R. C., assignor.)
- Sangamo Electric Company. (See Lanphier and Hodde, assignors.)
- Sangamo Electric Company. (See Lanphier and White, assignors.)
- Sangamo Electric Company. (See White, O., assignor.)
- Sanger, M. J., New York, N. Y. Protection-nozzle for fire-hose. No. 930,800; Aug. 10; Sp. p. 2414; Gaz. vol. 145; p. 418.
- Sangster, A. J. (See Carrigan and Sangster.)
- Sangster, C. T. B., Bournbrook, near Birmingham, England. Change-speed and back-pedaling brake mechanism for cycles. No. 931,656; Aug. 17; Sp. p. 4265; Gaz. vol. 145; p. 728.
- Sani, B., Rome, Italy. Reinforced-concrete railway-sleeper with special fixing device. No. 928,617; July 20; Sp. p. 3986; Gaz. vol. 144; p. 695.
- Sanitary Brush and Compound Company. (See Wolgram and Klausman, assignors.)
- Sanitary Can Company. (See Butler, W. F., assignor.)
- Sanitary Can Company. (See Wegner, F., assignor.)
- Sanitary Can Machinery Company. (See Brenzinger, J., assignor.)
- Sanitary Spittoon Company. (See Bridges, W. C., assignor.)
- Sanitary Toilet Appliance Company. (See Brott, H. G., assignor.)
- Sanitation and Supply Company. (See McLaughlin, W. B., assignor.)
- Sanitation and Supply Company. (See Rich, L. R., assignor.)
- Sankey, J. R. (See Wilson, T. H., assignor.)
- Sanner, E., College Mound, Mo. Automatic vehicle-brake. No. 924,691; June 15; Sp. p. 3438; Gaz. vol. 143; p. 591.
- Sanrope, C. B., Greenwood, Wis. Grain and hay loader. No. 910,088; Jan. 19; Sp. p. 3334; Gaz. vol. 138; p. 613.
- Sansbury, A. H. (See Sansbury, D. G. and A. H.)
- Sansbury, D. G. and A. H., Brooklyn, N. Y. Ice-box and refrigerator scale. No. 942,286; Dec. 7; Sp. p. 556; Gaz. vol. 149; p. 87.
- Sant, W. R., O. B. Cooper, and F. P. Clack, McCloud, Cal. Scaffold-bracket. No. 931,995; Aug. 24; Sp. p. 5038; Gaz. vol. 145; p. 863.
- Santha, S., et al. (See Melisch, J., assignor.)
- Santin, J., El Reno, Okla. Mop-wringer. No. 912,033; Feb. 9; Sp. p. 2065; Gaz. vol. 139; p. 359.
- Santin, J., El Reno, Okla. Street-sweeping machine. No. 935,821; Oct. 5; Sp. p. 476; Gaz. vol. 147; p. 68.
- Santsche, E., assignor of three-eighths to J. A. Prentice and two-eighths to C. M. Wheeler, Eureka, Cal. Spark-plug. No. 915,485; Mar. 16; Sp. p. 3761; Gaz. vol. 140; p. 654.
- Santsche, E., assignor of two-fifths to J. A. Prentice and one-fifth to J. Bagley, Eureka, Cal. Brake mechanism. No. 944,151; Dec. 21; Sp. p. 4554; Gaz. vol. 149; p. 781.
- Saphier, S. J., New York, N. Y. Door-fastener. No. 924,277; June 8; Sp. p. 2582; Gaz. vol. 143; p. 421.
- Sappenfield, J. T., Milan, Kans. Stovepipe-joint. No. 925,033; June 15; Sp. p. 4158; Gaz. vol. 143; p. 707.
- Sappenfield, J. T., Milan, Kans. Stovepipe-joint. No. 925,034; June 15; Sp. p. 4159; Gaz. vol. 143; p. 707.
- Sapper, J. J., and J. G. Brueggemann, St. Louis, Mo. Guard for electric-railway rail-bonds. No. 915,797; Mar. 23; Sp. p. 4427; Gaz. vol. 140; p. 786.
- Sarason, D., Berlin, Germany. Bandage and the like. No. 919,250; Apr. 20; Sp. p. 4895; Gaz. vol. 141; p. 822.
- Sargent, A., New York, N. Y. Receptacle. No. 944,580; Dec. 28; Sp. p. 5506; Gaz. vol. 149; p. 956.
- Sargent, A. C. (See Sargent, F. G. and A. C.)
- Sargent, A. C., assignor to C. G. Sargent's Sons Corporation, Westford, Mass. Rake for washing-machines. No. 928,336; July 20; Sp. p. 3433; Gaz. vol. 144; p. 604.
- Sargent, C. E. (See Thompson and Sargent.)
- Sargent, C. E., assignor to Wisconsin Engine Company, Corliss, Wis. Device for barring-over engines. No. 935,235; Sept. 28; Sp. p. 4544; Gaz. vol. 146; p. 809.
- Sargent, C. E., and R. B. Peebles, assignors to Chicago Card Cutting Company, Chicago, Ill. Card counting and stacking machine. No. 927,080; July 6; Sp. p. 804; Gaz. vol. 144; p. 128.
- Sargent, C. E., and R. B. Peebles, assignors to Chicago Card Cutting Company, Chicago, Ill. Machine for feeding blanks or sheets to presses or other operating devices. No. 927,171; July 6; Sp. p. 978; Gaz. vol. 144; p. 159.
- Sargent, C. G., Westford, Mass. Fiber-cleaning machine. No. 944,507; Dec. 28; Sp. p. 5334; Gaz. vol. 149; p. 930.
- Sargent & Company. (See Hartsig, L. W., assignor.)
- Sargent & Company. (See Munson, S. R., assignor.)
- Sargent & Company. (See Sargent, E. R., assignor.)
- Sargent & Company. (See Shaw, J. H., assignor.)
- Sargent, E. C., Amenia, N. D. Milk-pail. No. 934,761; Sept. 21; Sp. p. 3586; Gaz. vol. 146; p. 625.
- Sargent, E. R., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 943,999; Dec. 21; Sp. p. 4242; Gaz. vol. 149; p. 730.
- Sargent, F. G., Westford, Mass. Coherer. No. 908,504; Jan. 5; Sp. p. 147; Gaz. vol. 138; p. 26.
- Sargent, F. G., Westford, Mass. Telephone. No. 940,284; Nov. 16; Sp. p. 4071; Gaz. vol. 148; p. 690.

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- Sargent, F. G., Westford, assignor to C. G. Sargent's Sons, Graniteville, Mass. Drier. No. 932,499; Aug. 31; Sp. p. 6072; Gaz. vol. 145; p. 1053.
- Sargent, F. G. and A. C., Graniteville, Mass. Wool-washing machine. No. 918,771; Apr. 20; Sp. p. 3762; Gaz. vol. 141; p. 667.
- Sargent, G. H., Chicago, Ill. Car-replacer. No. 909,944; Jan. 19; Sp. p. 3049; Gaz. vol. 138; p. 565.
- Sargent, G. H., Evanston, Ill. Shift-rail. No. 910,089; Jan. 19; Sp. p. 3337; Gaz. vol. 138; p. 614.
- Sargent, H. D., assignor to Spencer Wire Company, Worcester, Mass. Buckle. No. 915,798; Mar. 23; Sp. p. 4428; Gaz. vol. 140; p. 786.
- Sargent, H. R., Schenectady, N. Y., assignor to General Electric Company. Combined switch and cut-out. No. 919,473; Apr. 27; Sp. p. 5418; Gaz. vol. 141; p. 933.
- Sargent, H. R., Schenectady, N. Y., assignor to General Electric Company. Incandescent lamp. No. 919,474; Apr. 27; Sp. p. 5419; Gaz. vol. 141; p. 933.
- Sargent, H. R. and F. C. De Reamer, Schenectady, N. Y., assignors to General Electric Company. Double-ended receptacle. No. 944,347; Dec. 28; Sp. p. 4955; Gaz. vol. 149; p. 873.
- Sargent, M. B., Mombence, assignor to Emerson Typewriter Company, Chicago, Ill. Type-writer-carriage stop mechanism. No. 939,640; Nov. 9; Sp. p. 2641; Gaz. vol. 148; p. 436.
- Sargh, J., New York, N. Y. Trousers-expander. No. 908,889; Jan. 5; Sp. p. 948; Gaz. vol. 138; p. 151.
- Saris, J. T. (See Coate and Saris.)
- Sarno, M. G., New York, N. Y. Attachment for washboards. No. 940,896; Nov. 23; Sp. p. 5428; Gaz. vol. 148; p. 920.
- Sarrazin, G., and H. Perreault, South Holyoke, Mass. Coupling. No. 933,924; Sept. 14; Sp. p. 1961; Gaz. vol. 146; p. 323.
- Sartain, W. H., Columbus, Ohio. Apparatus for disposing of noxious gases. No. 942,935; Dec. 14; Sp. p. 1935; Gaz. vol. 149; p. 337.
- Sartell, V., Highwood, Mont. Fluid-distributing comb. No. 940,196; Nov. 16; Sp. p. 3884; Gaz. vol. 148; p. 659.
- Sartolon, J. B. (See Gibson, R. A., assignor.)
- Sartorial Pattern Co. (See Peterson, E. H., assignor.)
- Sasseman, D. C., River Forest, assignor to F. H. Smith Manufacturing Company, Chicago, Ill. Rivet holding and driving chuck. No. 916,026; Mar. 23; Sp. p. 4861; Gaz. vol. 140; p. 861.
- Sasseman, D. C., River Forest, assignor to F. H. Smith Manufacturing Company, Chicago, Ill. Machine for applying metal ornaments to leather. No. 923,300; June 1; Sp. p. 445; Gaz. vol. 143; p. 62.
- Sasseman, D. C., River Forest, and C. Dalin, assignors to F. H. Smith Manufacturing Company, Chicago, Ill. Rivet-holding chuck. No. 909,231; Jan. 12; Sp. p. 1641; Gaz. vol. 138; p. 295.
- Sasser, J. C., and W. T. McDonald, Macon, Ga. Attachment for lifting-jacks. No. 912,737; Feb. 16; Sp. p. 3590; Gaz. vol. 139; p. 633.
- Satter, F. A., assignor to Pritchard-Strong Company, Rochester, N. Y. Lamp-burner. No. 920,495; May 4; Sp. p. 805; Gaz. vol. 142; p. 130.
- Satterlee, L. G., Rochester, Mich. Cement-shingle machine. No. 944,508; Dec. 28; Sp. p. 5337; Gaz. vol. 149; p. 930.
- Sauber, H. W., Lyons, Ill. Clothes-drier. No. 927,172; July 6; Sp. p. 984; Gaz. vol. 144; p. 159.
- Sauer, C., Homestead, Pa. Wrench. No. 917,364; Apr. 6; Sp. p. 829; Gaz. vol. 141; p. 142.
- Sauer, C., Homestead, Pa. Wrench. No. 938,020; Oct. 26; Sp. p. 5051; Gaz. vol. 147; p. 869.
- Sauer, F. H., New York, N. Y. Air-valve. No. 927,603; July 13; Sp. p. 1862; Gaz. vol. 144; p. 329.
- Sauer, H. O., New York, N. Y., assignor of one-half to W. A. P. Davis, Philadelphia, Pa. Movable-picture mount. No. 942,465; Dec. 7; Sp. p. 917; Gaz. vol. 149; p. 148.
- Sauer, J. A., Brooklyn, N. Y. Discharge-spout for cans. No. 942,522; Dec. 7; Sp. p. 1041; Gaz. vol. 149; p. 168.
- Sauer, J. A., Brooklyn, N. Y., and G. E. Potter, Newark, N. J.; said Potter assignor to said Sauer. Antiseptic finger-moistener. No. 939,098; Nov. 2; Sp. p. 1376; Gaz. vol. 148; p. 224.
- Sauerman, H. B. and J. A., Chicago, Ill. Conveyor apparatus. No. 914,755; Mar. 9; Sp. p. 2326; Gaz. vol. 140; p. 390.
- Sauerman, H. B. and J. A., Chicago, Ill. Scoop. No. 915,486; Mar. 16; Sp. p. 3762; Gaz. vol. 140; p. 654.
- Sauerman, H. B. and J. A., Chicago, Ill. Conveyor. No. 941,045; Nov. 23; Sp. p. 5741; Gaz. vol. 148; p. 969.
- Sauerman, J. A. (See Sauerman, H. B. and J. A.)
- Sauerwein, F. E., R. Zacharias, and C. E. Lewis, assignors to Lewis Company, Baltimore, Md. Transparent theater-program holder. No. 942,669; Dec. 7; Sp. p. 1322; Gaz. vol. 149; p. 217.
- Sauerwein, F. E., R. Zacharias, and C. E. Lewis, assignors to Lewis Company, Baltimore, Md. Detachable-leaf program-holder. No. 942,670; Dec. 7; Sp. p. 1323; Gaz. vol. 149; p. 218.
- Saul, H., North Beach, and R. N. Evans, Brooklyn, N. Y. Cigar cutter and cleaner. No. 920,395; May 4; Sp. p. 623; Gaz. vol. 142; p. 99.
- Saul, J., Jersey City, N. J. Kitchen utensil. No. 939,329; Nov. 9; Sp. p. 1936; Gaz. vol. 148; p. 331.
- Saumell, A., New York, N. Y. Music-recorder. No. 931,494; Aug. 17; Sp. p. 3947; Gaz. vol. 145; p. 680.
- Saums, E. E., Mount Pleasant, Iowa. Sealing-wax pot. No. 928,072; July 13; Sp. p. 2841; Gaz. vol. 144; p. 484.
- Saunders, A. T., Akron, Ohio. Envelop of air-proof material. No. 913,058; Feb. 23; Sp. p. 4203; Gaz. vol. 139; p. 761.
- Saunders, A. W., *et al.* (See Robinson, J., assignor.)
- Saunders, C., Philadelphia, Pa., assignor to Lidgerwood Manufacturing Company. Electrically-operated brake. No. 914,756; Mar. 9; Sp. p. 2329; Gaz. vol. 140; p. 390.
- Saunders, C., Philadelphia, Pa., assignor to Lidgerwood Manufacturing Company. Hook. No. 921,286; May 11; Sp. p. 2442; Gaz. vol. 142; p. 425.
- Saunders, E. A., South Bend, Ind. Making rubber footwear. No. 927,287; July 6; Sp. p. 1197; Gaz. vol. 144; p. 197.
- Saunders, E. A., South Bend, Ind. Apparatus for applying rubber soles to boots and shoes. No. 939,330; Nov. 9; Sp. p. 1937; Gaz. vol. 148; p. 331.
- Saunders, F. A., Winchester, Mass. Sash-cord holder. No. 918,772; Apr. 20; Sp. p. 3764; Gaz. vol. 141; p. 667.
- Saunders, F. E., Conanche, Okla. Fence-post. No. 931,495; Aug. 17; Sp. p. 3947; Gaz. vol. 145; p. 681.
- Saunders, H. J., Minneapolis, Minn. Tent. No. 932,909; Aug. 31; Sp. p. 6916; Gaz. vol. 145; p. 1188.
- Saunders, J. E. Ovid, assignor of one-half to L. Muther, Denver, Colo. Revolving illuminated sign. No. 935,236; Sept. 28; Sp. p. 4545; Gaz. vol. 146; p. 809.
- Saunders, L. E., London, England. Means for venting casks and other vessels. No. 922,198; May 18; Sp. p. 4332; Gaz. vol. 142; p. 753.
- Saunders, W. H., New London, Conn. Timing and ignition device. No. 942,936; Dec. 14; Sp. p. 1936; Gaz. vol. 149; p. 337.
- Saurer, A. (See Moriggl, C., assignor.)
- Saurer, A., Arbon, Switzerland, assignor of one-half to Firm of Schubert & Salzer Maschinenfabrik Aktiengesellschaft, Chemnitz, Germany. Fabric-roller for embroidering-machines. No. 909,826; Jan. 12; Sp. p. 2799; Gaz. vol. 138; p. 493.
- Saurer, H., Arbon, Switzerland. Valve-gear for descending automobiles. No. 934,762; Sept. 21; Sp. p. 3588; Gaz. vol. 146; p. 626.
- Sausser, J. M., Bellwood, Nebr. Measuring-cabinet. No. 912,896; Feb. 16; Sp. p. 3871; Gaz. vol. 139; p. 683.
- Saussard, L. A., Paris, France. Change-speed gearing. No. 932,814; Aug. 31; Sp. p. 6751; Gaz. vol. 145; p. 1158.
- Sausser, J. M., Osnaburg, Ohio. Mine-door-operating device. No. 916,027; Mar. 23; Sp. p. 4863; Gaz. vol. 140; p. 861.
- Sausser, J. M., Osnaburg, Ohio. Mine-door-operating device. No. 941,102; Nov. 23; Sp. p. 5859; Gaz. vol. 148; p. 988.
- Saussure, J. B. de. (See Hardin and Sausure.)
- Sautter, C., West Hoboken, N. J. Gas-hose coupling. No. 923,081; May 25; Sp. p. 6157; Gaz. vol. 142; p. 1068.
- Sautter, G., Paris, France. Hot-liquid power plant. No. 924,838; June 15; Sp. p. 3746; Gaz. vol. 143; p. 641.
- Sauvage, W. H., New York, N. Y. Brake-rigging for railway-cars. No. 909,232; Jan. 12; Sp. p. 1642; Gaz. vol. 138; p. 296.
- Sauvage, W. H., New York, N. Y., assignor of one-half to R. F. Hamilton, Baltimore, Md. Fluid-pressure brake system. No. 934,019; Sept. 14; Sp. p. 2138; Gaz. vol. 146; p. 353.
- Sauvé, C. D., Denver, Colo. Roundabout. No. 922,723; May 25; Sp. p. 5404; Gaz. vol. 142; p. 952.
- Sauve, J. B. and F. Bernardi, Mokelumne Hill, Cal. Electrical fuse-spitter. No. 913,566; Feb. 23; Sp. p. 5269; Gaz. vol. 139; p. 933.
- Savage, A. J., Chicopee Falls, Mass. Firearm. No. 935,237; Sept. 28; Sp. p. 4547; Gaz. vol. 146; p. 809.
- Savage, A. J., assignor to J. Stevens Arms & Tool Company, Chicopee Falls, Mass. Magazine-firearm. No. 910,236; Jan. 19; Sp. p. 3658; Gaz. vol. 138; p. 665.
- Savage Arms Company. (See Chadwick, F. C., assignor.)
- Savage, C. W., *et al.* (See Ellis, W. J., assignor.)
- Savage, E. S., Rochester, N. Y. Chuck. No. 913,059; Feb. 23; Sp. p. 4205; Gaz. vol. 139; p. 761.
- Savage, E. S., assignor to American Chemical Manufacturing & Mining Company, Rochester, N. Y. Box-opener. No. 915,701; Mar. 16; Sp. p. 4232; Gaz. vol. 140; p. 729.
- Savage, E. S., assignor to American Chemical Manufacturing & Mining Company, Rochester, N. Y. Shelf-tongs. No. 923,376; June 1; Sp. p. 603; Gaz. vol. 143; p. 88.
- Savage, F. W., Granville, N. Y. Excluder for elastic socks. No. 942,671; Dec. 7; Sp. p. 1325; Gaz. vol. 149; p. 218.
- Savage, F. W., Granville, N. Y. Excluder for felt and knitted boots and socks. No. 942,672; Dec. 7; Sp. p. 1326; Gaz. vol. 149; p. 218.
- Savage, G. E., and E. A. Gutermann, assignors to Manning, Bowman & Company, Meriden, Conn. Vapor-stove. No. 909,945; Jan. 19; Sp. p. 3052; Gaz. vol. 138; p. 565.
- Savage, G. E., and E. A. Gutermann, assignors to Manning, Bowman & Company, Meriden, Conn. Vapor-stove. No. 909,946; Jan. 19; Sp. p. 3054; Gaz. vol. 138; p. 566.



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- Savage, H., Florence, Kans. Mowing-machine. No. 919,960; Apr. 27; Sp. p. 6413; Gaz. vol. 141; p. 1095.
- Savage, M., Florence, Kans. Lamp-burner. No. 910,022; Jan. 19; Sp. p. 3205; Gaz. vol. 138; p. 592.
- Savage, W. A., *et al.* (See Ellis, W. J., assignor.)
- Savage, W. E., Baltimore, Md. Machine for making bottle-blanks. No. 944,053; Dec. 21; Sp. p. 4347; Gaz. vol. 149; p. 749.
- Savarese, A., Paris, France. Composing-machine. No. 920,086; Apr. 27; Sp. p. 6691; Gaz. vol. 141; p. 1137.
- Savespay Garment Holder Co. (See Danziger, J., assignor.)
- Savin, R. B., and W. C. Harvey, assignors to S. S. White Dental Mfg. Co., Philadelphia, Pa. Adjustable wall-bracket. No. 919,777; Apr. 27; Sp. p. 6023; Gaz. vol. 141; p. 1035.
- Savings Bank Manufacturing Co. (See Gordon, W. T., assignor.)
- Savit, I. M., Milwaukee, Wis. Hat-pin. No. 938,277; Oct. 26; Sp. p. 5596; Gaz. vol. 147; p. 957.
- Savoie, J., Central Falls, assignor of one-fourth to E. C. Glines, Providence, and one-fourth to N. Herbert, Central Falls, R. I. Spectacles. No. 915,487; Mar. 16; Sp. p. 3765; Gaz. vol. 140; p. 655.
- Savoie, J., Central Falls, assignor of one-fourth to E. C. Glines, Providence, and one-fourth to N. Herbert, Central Falls, R. I. Frameless spectacles. No. 926,293; June 29; Sp. p. 6716; Gaz. vol. 143; p. 1184.
- Savoy, L. L., Minneapolis, Minn. Carrier-box lock. No. 915,799; Mar. 23; Sp. p. 4429; Gaz. vol. 140; p. 786.
- Savy, A. H., Paris, France. Machine for the manufacture of chocolate confections. No. 941,537; Nov. 30; Sp. p. 6814; Gaz. vol. 148; p. 1153.
- Sawyer, A. T., Nashua, N. H., assignor of one-fourth to C. Munson, Clinton, Iowa. Clamp for beds. (Reissue.) No. 12,926; Mar. 9; Sp. p. 2878; Gaz. vol. 140; p. 438.
- Sawyer Boot & Shoe Company. (See Sawyer, R. J., assignor.)
- Sawyer, C. F., Minneapolis, Minn. Nut-lock. No. 941,046; Nov. 23; Sp. p. 5744; Gaz. vol. 148; p. 970.
- Sawyer, C. H., Minneapolis, Minn. Wheeled scraper. No. 925,035; June 15; Sp. p. 4161; Gaz. vol. 143; p. 708.
- Sawyer, E. H., Pawtucket, R. I., assignor to Blackstone Webbing Co. Shuttle. No. 932,180; Aug. 24; Sp. p. 5428; Gaz. vol. 145; p. 925.
- Sawyer, H., Muskegon, Mich. Hoisting mechanism for cranes. No. 943,956; Dec. 21; Sp. p. 4133; Gaz. vol. 149; p. 716.
- Sawyer, H., Muskegon, Mich. Overhead traveling crane. No. 944,054; Dec. 21; Sp. p. 4349; Gaz. vol. 149; p. 749.
- Sawyer, J. H., assignor of one-half to J. N. Marley, Lexington, Ky. Bale-wiring mechanism. No. 940,897; Nov. 23; Sp. p. 5429; Gaz. vol. 148; p. 920.
- Sawyer, O. A., assignor to E. A. Thissell, Lowell, Mass. Shuttle or filling-carrier for looms. No. 937,963; Oct. 26; Sp. p. 4922; Gaz. vol. 147; p. 850.
- Sawyer, O. A., assignor to E. A. Thissell, Lowell, Mass. Weft-replenishing mechanism for looms. No. 938,711; Nov. 2; Sp. p. 572; Gaz. vol. 148; p. 90.
- Sawyer, O. A., assignor to E. A. Thissell, Lowell, Mass. Stop-motion for looms. No. 938,712; Nov. 2; Sp. p. 574; Gaz. vol. 148; p. 90.
- Sawyer, R. J., assignor to Sawyer Boot & Shoe Company, Bangor, Me. Boot and shoe. No. 937,648; Oct. 19; Sp. p. 4262; Gaz. vol. 147; p. 727.
- Sawyer, W. H. (See Bailey, R. W., assignor.)
- Sawyer, W. S., Camden, N. J., assignor to Industrial Development & Manufacturing Co. Irrigating-syringe. No. 942,523; Dec. 7; Sp. p. 1043; Gaz. vol. 149; p. 168.
- Saxe, J. P., Waterbury, Conn. Sight-locating device. No. 936,570; Oct. 12; Sp. p. 2051; Gaz. vol. 147; p. 339.
- Saxton, T. G., assignor of fifty-one one-hundredths to C. J. Bronston, Lexington, twelve one-hundredths to J. P. McKeever, and twelve one-hundredths to E. L. McKeever, Fayette county, Ky. Fiber-liberating machine or break. No. 944,509; Dec. 28; Sp. p. 5338; Gaz. vol. 149; p. 930.
- Sayer, H. E., Birmingham, England. Fare indicator and register. No. 935,273; Sept. 28; Sp. p. 4622; Gaz. vol. 146; p. 821.
- Sayer, R. C., Bristol, England. Means for securing bodies together. No. 933,852; Sept. 14; Sp. p. 1819; Gaz. vol. 146; p. 350.
- Sayers, J. F. (See Hero, C. J., assignor.)
- Sayers, O. J., assignor to R. B. Moser and F. J. Langer, Cleveland, Ohio. Making castings by air-pressure. No. 937,964; Oct. 26; Sp. p. 4923; Gaz. vol. 147; p. 850.
- Sayers, W. B. (See Jeffreys and Sayers.)
- Sayles, F. F., New York, N. Y. Ticket-holder. No. 934,220; Sept. 14; Sp. p. 2544; Gaz. vol. 146; p. 420.
- Saylor, B. F. (See Saylor, H. B., assignor.)
- Saylor, H. B., assignor of one-half to B. F. Saylor, Sausalito, Cal. Smoker's pipe. No. 912,034; Feb. 9; Sp. p. 2068; Gaz. vol. 139; p. 360.
- Sayre & Co., L. A. (See Angerstein, F., assignor.)
- Sayre & Fisher Company. (See MacCarthy, F., assignor.)
- Sayre, R. H., assignor of one-half to G. W. Kotzebue, New Martinsville, W. Va. Furnace. No. 914,314; Mar. 2; Sp. p. 1395; Gaz. vol. 140; p. 217.
- Scales, W. S., Boston, Mass., assignor, by mesne assignments, to City Trust Company. Weighing-machine. No. 924,191; June 8; Sp. p. 2389; Gaz. vol. 143; p. 392.
- Scales, W. S., Medford, assignor to Pneumatic Scale Corporation Limited, Quincy, Mass. Carton closing and sealing mechanism. No. 930,090; Aug. 3; Sp. p. 983; Gaz. vol. 145; p. 159.
- Scally, T., St. Louis, Mo. Clothes-line reel. No. 910,962; Jan. 26; Sp. p. 5154; Gaz. vol. 138; p. 929.
- Scamardi, B., Williamsport, Pa. Pocket-stove. No. 943,569; Dec. 14; Sp. p. 3284; Gaz. vol. 149; p. 553.
- Scanlan, J. F., Chicago, Ill. Fishing-pole. No. 919,778; Apr. 27; Sp. p. 6025; Gaz. vol. 141; p. 1036.
- Scanlan, P. H., *et al.* (See Hachmann, F., assignor.)
- Scanlan, J. A., assignor to Acme Harvesting Machine Company, Peoria, Ill. Harvester-reel support. No. 941,655; Nov. 30; Sp. p. 7056; Gaz. vol. 148; p. 1192.
- Scanlon, M., New Castle, Pa. Curtain-pole. No. 933,000; Aug. 31; Sp. p. 7084; Gaz. vol. 145; p. 1218.
- Scanlon, M. J., Dover, Del. Impulse-turbine. No. 909,684; Jan. 12; Sp. p. 2516; Gaz. vol. 138; p. 447.
- Scaramuzza, G., assignor to Società Anonima per Frigorigeni e Motori "Motofrigo," Turin, Italy. Fly-wheel. No. 928,544; July 20; Sp. p. 3828; Gaz. vol. 144; p. 672.
- Scarborough, H. (See Volz, S., assignor.)
- Scarborough, W. K., San Jose, Cal. Abstract-record. No. 912,179; Feb. 9; Sp. p. 2346; Gaz. vol. 139; p. 406.
- Scarborough, L., Kell, Ill. Nail-puller. No. 940,197; Nov. 16; Sp. p. 3885; Gaz. vol. 148; p. 659.
- Scarlett, E. J., Chickasha, Okla. Picker for stringed musical instruments. No. 921,565; May 11; Sp. p. 3012; Gaz. vol. 142; p. 517.
- Scearce, H. M., assignor to Noblesville Specialty Company, Noblesville, Ind. Filing apparatus. No. 918,919; Apr. 20; Sp. p. 4087; Gaz. vol. 141; p. 717.
- Schaaf, E. (See Martin, Bartholomew, and Schaaf.)
- Schaaff, J. T., Washington, D. C. Alternating-current electric motor. No. 939,331; Nov. 9; Sp. p. 1939; Gaz. vol. 148; p. 331.
- Schaaff, J. T., Washington, D. C., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 936,044; Oct. 5; Sp. p. 933; Gaz. vol. 147; p. 141.
- Schaake, H. (See Cowie, J. T., assignor.)
- Schaake, H., and J. T. Cowie, New Westminster, British Columbia, Canada. Spark-timer for internal-combustion engines. No. 915,891; Mar. 23; Sp. p. 4601; Gaz. vol. 140; p. 816.
- Schaake, H., and J. T. Cowie, New Westminster, British Columbia, Canada. Spark mechanism for internal-combustion engines. No. 934,842; Sept. 21; Sp. p. 3752; Gaz. vol. 146; p. 652.
- Schaake, W., Pittsburg, Pa. Mounting-pocket for cards and the like. No. 933,117; Sept. 7; Sp. p. 165; Gaz. vol. 146; p. 28.
- Schaar, J. H. A. (See Holst, E. K. M., assignor.)
- Schaarschmidt, A., and B. Mayer, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Brown vat dye and makingsame. No. 915,385; Mar. 16; Sp. p. 3571; Gaz. vol. 140; p. 621.
- Schacht, G. A., Cincinnati, Ohio. Bearing for vehicle-wheels. No. 918,600; Apr. 20; Sp. p. 3343; Gaz. vol. 141; p. 608.
- Schacht, G. A., Cincinnati, Ohio. Automobile. No. 919,779; Apr. 27; Sp. p. 6027; Gaz. vol. 141; p. 1036.
- Schacht, J. J., New York, N. Y. Shoe-fastener. No. 936,172; Oct. 5; Sp. p. 1204; Gaz. vol. 147; p. 182.
- Schacht, W. F., Goshen, Ind. Mold for molding stopples. No. 923,585; June 1; Sp. p. 1065; Gaz. vol. 143; p. 162.
- Schacht, W. F., Goshen, Ind. Rubber elastic force-cup. No. 930,236; Aug. 3; Sp. p. 1259; Gaz. vol. 145; p. 208.
- Schade, C. K., Canton, Ohio, assignor to Berger Manufacturing Company. Lantern. No. 918,476; Apr. 13; Sp. p. 3068; Gaz. vol. 141; p. 539.
- Schade, E. A. (See Mitchell and Schade.)
- Schade, E. A., assignor to Stanley Rule & Level Company, New Britain, Conn. Miter-box-saw support. No. 935,694; Oct. 5; Sp. p. 156; Gaz. vol. 147; p. 25.
- Schade, E. A., assignor to Stanley Rule & Level Company, New Britain, Conn. Bench-dog. No. 941,816; Nov. 30; Sp. p. 7418; Gaz. vol. 148; p. 1247.
- Schade, G. J. (See Gilliland, J. F., assignor.)
- Schade, G. J., Sandusky, Ohio. Metal-reinforced concrete column, post, and the like. No. 943,468; Dec. 14; Sp. p. 3078; Gaz. vol. 149; p. 518.

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- Schaefer, D. A., Pittsburg, Pa. Cooking utensil. No. 910,318; Jan. 19; Sp. p. 3859; Gaz. vol. 138; p. 695.
- Schaefer, F., Wheeling, W. Va., assignor to American Telephone Company. Telephone. No. 934,843; Sept. 21; Sp. p. 3753; Gaz. vol. 146; p. 652.
- Schaefer, H. C., El Paso, Tex. Rotary engine. No. 909,685; Jan. 12; Sp. p. 2517; Gaz. vol. 138; p. 447.
- Schaefer, H. C., El Paso, Tex. Hydraulic motor. No. 937,649; Oct. 19; Sp. p. 4263; Gaz. vol. 147; p. 727.
- Schaefer, K. (See Treu and Schaefer.)
- Schaeffer, G. E., Irondale, Mo. Spoke-fastener. No. 917,158; Apr. 6; Sp. p. 407; Gaz. vol. 141; p. 71.
- Schaeffer, J. E., South Chicago, Ill. Expansion-reamer. No. 925,515; June 22; Sp. p. 5076; Gaz. vol. 143; p. 893.
- Schaeffer, J. S., Phoenix, N. Y. Cross-tie. No. 944,637; Dec. 28; Sp. p. 5620; Gaz. vol. 149; p. 975.
- Schaeffer Piano Manufacturing Company. (See Smith, W. C., assignor.)
- Schaeffer, V. J., and J. M. Dempsey, Chicago, Ill. Apparatus for developing the lungs. No. 940,735; Nov. 23; Sp. p. 5083; Gaz. vol. 148; p. 867.
- Schaeffe, S. M., Naperville, Ill. Tray-holder. No. 912,035; Feb. 9; Sp. p. 2069; Gaz. vol. 139; p. 360.
- Schaefer, O., Stuttgart, Germany. Gearing. No. 923,711; June 1; Sp. p. 1321; Gaz. vol. 143; p. 204.
- Schafenacker, R. (See Metz, N., assignor.)
- Schafer, C. R., Syracuse, N. Y. Combined pocket-fastener and pencil-holder. No. 915,892; Mar. 23; Sp. p. 4603; Gaz. vol. 140; p. 817.
- Schafer, C. R., Syracuse, N. Y. Telephone-stand. No. 929,025; July 27; Sp. p. 4808; Gaz. vol. 144; p. 860.
- Schafer, F., and H. C. Hills, assignors of one-third to W. G. Mahon, Fargo, N. D. Double-valve boiler-check. No. 936,571; Oct. 12; Sp. p. 2052; Gaz. vol. 147; p. 339.
- Schafer, G. F. (See Farwell and Schafer.)
- Schaffer, W., London, England. Hair frame, pad, or roll for ladies' use. No. 914,191; Mar. 2; Sp. p. 1154; Gaz. vol. 140; p. 180.
- Schaffer, O. S., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Multiple-switch rheostat. No. 931,148; Aug. 17; Sp. p. 3222; Gaz. vol. 145; p. 562.
- Schallitz, C. L., San Francisco, Cal. Evaporator. No. 909,028; Jan. 5; Sp. p. 1217; Gaz. vol. 138; p. 195.
- Schallau, C., Watkins, Iowa. End-gate. No. 935,168; Sept. 28; Sp. p. 4412; Gaz. vol. 146; p. 787.
- Schaller, M. D., Vernon Center, N. Y. Holdback. No. 940,620; Nov. 16; Sp. p. 4812; Gaz. vol. 148; p. 802.
- Schaller, O., Steglitz, near Berlin, Germany. Lock for doors for railway and other cars. No. 924,502; June 8; Sp. p. 3026; Gaz. vol. 143; p. 494.
- Schanbacher, O. L., Eastpoint, Pa. Window-screen. No. 930,237; Aug. 3; Sp. p. 1260; Gaz. vol. 145; p. 208.
- Schaney, M. M., Dubois, Pa. Shoe-calk. No. 919,082; Apr. 20; Sp. p. 4394; Gaz. vol. 141; p. 767.
- Schaney, M. M., Dubois, Pa. Snelled-hook box. No. 920,663; May 4; Sp. p. 1153; Gaz. vol. 142; p. 187.
- Schantz, K. W. (See Hoefer and Schantz.)
- Schar, F., Schwechat, near Vienna, Austria-Hungary. Making chains. No. 925,656; June 22; Sp. p. 5361; Gaz. vol. 143; p. 939.
- Schardt, C., Braddock, Pa. Agricultural implement. No. 916,202; Mar. 23; Sp. p. 5177; Gaz. vol. 140; p. 917.
- Schärer-Nussbaumer, J., Erlenbach, Switzerland. Bobbin-winding machine. No. 919,475; Apr. 27; Sp. p. 5421; Gaz. vol. 141; p. 933.
- Schärer-Nussbaumer, J., Erlenbach, near Zurich, Switzerland. Winding and spooling apparatus. No. 920,185; May 4; Sp. p. 184; Gaz. vol. 142; p. 29.
- Scharf, W. H., Montreal, Quebec, assignor to Toronto Type Foundry Company Limited, Toronto, Canada. Linotype-machine. No. 912,180; Feb. 9; Sp. p. 2348; Gaz. vol. 139; p. 406.
- Scharnberg, N. M., Michigan City, Ind. Smoke-stack. No. 926,772; July 6; Sp. p. 131; Gaz. vol. 144; p. 21.
- Scharps, A. T. (See Ashley, F. M., assignor.)
- Scharps, A. T., et al. (See Kendall, E. D., assignor.) (Reissue.)
- Scharz, R. E., Oakland, Cal. Device for timing photoprinting. No. 929,987; Aug. 3; Sp. p. 778; Gaz. vol. 145; p. 124.
- Schattner, E., Ealing, England, assignor to General Electric Company. Measuring instrument. No. 912,181; Feb. 9; Sp. p. 2349; Gaz. vol. 139; p. 406.
- Schatz, A. E., et al. (See Kleinfeldt, A., assignor.)
- Schatz, E. J. (See Schneibach and Schatz.)
- Schätz, F., Oberhausen, near Augsburg, Germany, and B. van der Hoek, Apeldoorn, Netherlands. Device for cutting combs. No. 942,795; Dec. 7; Sp. p. 1571; Gaz. vol. 149; p. 258.
- Schatz, H. A., assignor to himself and J. W. Schatz, Chappaqua, N. Y. Level. No. 922,960; May 25; Sp. p. 5912; Gaz. vol. 142; p. 1030.
- Schatz, H. A., assignor to himself and J. W. Schatz, Chappaqua, N. Y. Lifting-jack. No. 924,692; June 15; Sp. p. 3439; Gaz. vol. 143; p. 591.
- Schatz, H. W., assignor to American Tool Works Company, Cincinnati, Ohio. Variable-speed mechanism. No. 918,773; Apr. 20; Sp. p. 3765; Gaz. vol. 141; p. 668.
- Schatz, J. W. (See Schatz, H. A., assignor.)
- Schaub, F., Jersey City, N. J. Insulator. No. 919,386; Apr. 27; Sp. p. 5204; Gaz. vol. 141; p. 902.
- Schaub, J., and J. N. Larsen, assignors to Western Book and Manufacturing Company, Logan, Utah. Binder-frame for loose-leaf books. No. 921,467; May 11; Sp. p. 2823; Gaz. vol. 142; p. 485.
- Schaubel, C., San Francisco, Cal. Fruit press and strainer. No. 934,937; Sept. 21; Sp. p. 3948; Gaz. vol. 146; p. 685.
- Schauer, J. W., Kalispell, Mont. Cabinet. No. 914,078; Mar. 2; Sp. p. 906; Gaz. vol. 140; p. 142.
- Schäufelberger, W., Zurich, Switzerland. Speed-indicator. No. 938,898; Nov. 2; Sp. p. 984; Gaz. vol. 148; p. 155.
- Schaulder, W. C., Amsterdam, N. Y. Electrical exercising apparatus. No. 938,399; Oct. 26; Sp. p. 5888; Gaz. vol. 147; p. 999.
- Schaumburg, O., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical apparatus. No. 913,060; Feb. 23; Sp. p. 4207; Gaz. vol. 139; p. 761.
- Schaumburg, C., New York, N. Y. Shoulder-pad attachment for violin chin-rests. No. 940,405; Nov. 16; Sp. p. 4375; Gaz. vol. 148; p. 732.
- Schaurer, F. C., Wellington, Kans. Sash-lock. No. 944,152; Dec. 21; Sp. p. 4555; Gaz. vol. 149; p. 781.
- Schebler, G. M., Indianapolis, Ind. Strainer and separator for gasoline-supply. No. 939,551; Nov. 9; Sp. p. 2438; Gaz. vol. 148; p. 404.
- Scheck, L. H., Batavia, N. Y. Ice-cream can. No. 939,865; Nov. 9; Sp. p. 3108; Gaz. vol. 148; p. 513.
- Scheck, W., et al. (See Morsey-Picard and Verschuier, assignors.)
- Schedler, A., assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Orange to red tetrazo dye and making same. No. 936,367; Oct. 12; Sp. p. 1601; Gaz. vol. 147; p. 272.
- Schedler, A., assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Red disazo dye and making same. No. 943,470; Dec. 14; Sp. p. 3083; Gaz. vol. 149; p. 519.
- Schedler, H., New York, N. Y. Etching-machine. No. 940,480; Nov. 16; Sp. p. 4521; Gaz. vol. 148; p. 752.
- Scheele, G. A., Jackson, Mich. Wire-fence tie. No. 919,476; Apr. 27; Sp. p. 5423; Gaz. vol. 141; p. 933.
- Scheer, J. C. C., Beaver Falls, assignor of two-fifths to R. Boethelt, New Castle, Pa. Machine for blacking and polishing shoes. No. 920,884; May 4; Sp. p. 1620; Gaz. vol. 142; p. 258.
- Scheets, W. F., Baker City, Oreg. Mop-wringer. No. 925,657; June 22; Sp. p. 5361; Gaz. vol. 143; p. 939.
- Scheewe, R., Hamburg, Germany. Press-button. No. 939,446; Nov. 9; Sp. p. 2222; Gaz. vol. 148; p. 370.
- Scheffer, F. A., Montegut, La. Bag-holding attachment for trucks. No. 919,251; Apr. 20; Sp. p. 4896; Gaz. vol. 141; p. 822.
- Schehr, G. A., Cincinnati, Ohio. Handle. No. 939,332; Nov. 9; Sp. p. 1940; Gaz. vol. 148; p. 332.
- Scheib, P. J. (See Rimmel, C. B., assignor.)
- Scheibe, H. M., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Dynamo-electric machine. No. 928,799; July 20; Sp. p. 4342; Gaz. vol. 144; p. 757.
- Scheibe, H. M., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Starting device for electric motors. No. 934,466; Sept. 21; Sp. p. 3020; Gaz. vol. 146; p. 526.
- Scheibe, H. M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vapor electrical apparatus. No. 940,736; Nov. 23; Sp. p. 5084; Gaz. vol. 148; p. 867.
- Scheible, A., assignor to J. Stafford, Chicago, Ill. Anchoring device. No. 909,947; Jan. 19; Sp. p. 3055; Gaz. vol. 138; p. 566.
- Scheibler, A. (See Ackermann, A., assignor.)
- Scheibner, J., Beaver Falls, Pa. Invalid-table. No. 921,468; May 11; Sp. p. 2827; Gaz. vol. 142; p. 485.
- Scheid, A. (See Lunde, C., assignor.)
- Scheid, H. J., New Richmond, assignor to International Compressed Preserving Wood Process Company, Cincinnati, Ohio. Machine for compressing wood. No. 920,396; May 4; Sp. p. 626; Gaz. vol. 142; p. 100.
- Scheidler, H. R., Newark, Ohio. Set-gear for sawmills. No. 916,028; Mar. 23; Sp. p. 4867; Gaz. vol. 140; p. 862.
- Scheiffler, G. D., Jackson, Mich. Feed-regulator. No. 940,943; Nov. 23; Sp. p. 5526; Gaz. vol. 148; p. 935.
- Scheiffler, G. D., assignor to Holton & Weatherwax Co., Ltd., Jackson, Mich. Mortar-mixer. No. 922,724; May 25; Sp. p. 5406; Gaz. vol. 142; p. 953.
- Scheiffler, G. D., assignor to Holton & Weatherwax Co., Ltd., Jackson, Mich. Feed-regulator. No. 922,725; May 25; Sp. p. 5408; Gaz. vol. 142; p. 953.



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- Scheitlin, E., Altstetten, near Zurich, Switzerland. Making 1-phenyl-2,3-dimethyl-4-dimethylaminopyrazolone. No. 930,092; Aug. 3; Sp. p. 991; Gaz. vol. 145; p. 160.
- Scheld, T. C., Hamburg, Germany. Machine for bending metal plates. No. 936,481; Oct. 12; Sp. p. 1872; Gaz. vol. 147; p. 309.
- Schellhammer, H. (See Bertsch, Schellhammer, and Bertsch.)
- Schell, C. C., Mount Oliver, Pa. Curtain-pole. No. 938,792; Nov. 2; Sp. p. 732; Gaz. vol. 148; p. 118.
- Schell, C. W., assignor of one-half to C. P. Mathewson, Cleveland, Ohio. Shoe-shining apparatus. No. 910,419; Jan. 19; Sp. p. 4064; Gaz. vol. 138; p. 728.
- Schellenbach, C. O., Cincinnati, Ohio. Protractor. No. 909,686; Jan. 12; Sp. p. 2519; Gaz. vol. 138; p. 447.
- Schellenbach, C. O., Cincinnati, Ohio. Micrometer-gage. No. 923,446; June 1; Sp. p. 753; Gaz. vol. 143; p. 112.
- Schellenbach, C. O., assignor to Schellenbach & Darling Tool Company, Cincinnati, Ohio. Expansion-reamer. No. 930,317; Aug. 3; Sp. p. 1399; Gaz. vol. 145; p. 232.
- Schellenbach & Darling Tool Company. (See Schellenbach, C. O., assignor.)
- Schellenbach, W. L., Hartwell, Ohio. Gearing. No. 920,664; May 4; Sp. p. 1154; Gaz. vol. 142; p. 187.
- Schellenberger, J. (See Wittig, H. F., assignor.)
- Scheller, P. J., and N. I. Haas, assignors of one-third to E. Horn, Evansville, Ind. Catamenial receptacle. No. 913,983; Mar. 2; Sp. p. 703; Gaz. vol. 140; p. 110.
- Schellert, O., Indianapolis, Ind. Toaster. No. 932,584; Aug. 31; Sp. p. 6259; Gaz. vol. 145; p. 1082.
- Schellhammer, A. L., Warren, Pa. Radiator-casing. No. 920,665; May 4; Sp. p. 1166; Gaz. vol. 142; p. 185.
- Schellhammer, A. L., assignor to Pennsylvania Furnace and Stove Company, Warren, Pa. Heater. No. 939,925; Nov. 9; Sp. p. 3247; Gaz. vol. 148; p. 535.
- Schelling, H. F., Weehawken Heights, N. J. Shoe-lace and the like. No. 943,607; Dec. 14; Sp. p. 3355; Gaz. vol. 149; p. 566.
- Schelp, G. H. (See Krueger, H. A., assignor.)
- Schermmann, W., and J. Bronn, Rombach, Germany. Furnace for the treatment of metals. No. 915,488; Mar. 16; Sp. p. 3767; Gaz. vol. 140; p. 655.
- Schimmel, L. T., and C. L. Besler, North Fork township, Delaware county, Iowa. Manure-carrier. No. 917,801; Apr. 13; Sp. p. 1680; Gaz. vol. 141; p. 312.
- Schemnitz, L., New York, N. Y., assignor to Atlas Torch and Brass Company. Blast-lamp. No. 936,815; Oct. 12; Sp. p. 2531; Gaz. vol. 147; p. 423.
- Schemnitz, L., New York, N. Y., assignor to Atlas Torch and Brass Company. Soldering-tool. No. 936,816; Oct. 12; Sp. p. 2532; Gaz. vol. 147; p. 423.
- Schenck, H. (See Price and Schenck.)
- Schenck, M., Middletown, assignor, by mesne assignments, to Ceramic Machinery Company, Hamilton, Ohio. Feeding and dusting device for coating-machines. No. 940,737; Nov. 23; Sp. p. 5085; Gaz. vol. 148; p. 868.
- Schendel, S., New York, N. Y. Cigarette and match box. No. 940,198; Nov. 16; Sp. p. 3886; Gaz. vol. 148; p. 660.
- Schenimann, L. C. (See Modlin, Schenimann, Buhl, and Black.)
- Schenk, J. M. (See Stewart and Schenk.)
- Schenk, J. M., and J. H. Stewart, assignors to Cement Tile Machinery Company, Waterloo, Iowa. Tile-machine. No. 908,611; Jan. 5; Sp. p. 381; Gaz. vol. 138; p. 62.
- Schenkein, S. (See Pusterla, A., assignor.)
- Schenuit, H. F., Milwaukee, Wis. Zither-piano. No. 933,670; Sept. 7; Sp. p. 1437; Gaz. vol. 146; p. 216.
- Schepmoes, L., New York, N. Y., assignor to Safety Car Heating & Lighting Company. Lamp. No. 914,079; Mar. 2; Sp. p. 907; Gaz. vol. 140; p. 142.
- Schepmoes, L., New York, N. Y., assignor to Safety Car Heating & Lighting Company. Lamp. No. 931,496; Aug. 17; Sp. p. 3948; Gaz. vol. 145; p. 681.
- Scherer, A. G., assignor to A. W. Glessner, Chicago, Ill. Means for packing nesting pipe. No. 934,938; Sept. 21; Sp. p. 3949; Gaz. vol. 146; p. 685.
- Scherer, R., Norristown, assignor of one-half to C. P. Romeis, Bridgeport Pa. Nut-lock. No. 923,082; May 25; Sp. p. 6158; Gaz. vol. 142; p. 1068.
- Scherer, W. H. (See Walther and Scherer.)
- Scherf, T., assignor to Cleveland-Akron Bag Company, Cleveland, Ohio. Lining for barrels and other like containers. No. 936,817; Oct. 12; Sp. p. 2535; Gaz. vol. 147; p. 424.
- Scherling, R. C., assignor to H. E. and J. E. Bullock, Chicago, Ill. Gearing for cotton-harvesters. No. 921,008; May 11; Sp. p. 1857; Gaz. vol. 142; p. 329.
- Schermerhorn, E. F., Brooklyn, assignor to Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 909,458; Jan. 12; Sp. p. 2073; Gaz. vol. 138; p. 368.
- Schermerhorn, H. A., Shabbona Grove, Ill. Wire-splicer. No. 923,586; June 1; Sp. p. 1067; Gaz. vol. 143; p. 162.
- Schertz, J. A., Marquette, Neb. Hay-sweep. No. 927,883; July 13; Sp. p. 2465; Gaz. vol. 144; p. 421.
- Schessnack, A., Bevier, Mo. Puzzle. No. 939,552; Nov. 9; Sp. p. 2440; Gaz. vol. 148; p. 405.
- Scheuble, J. L., St. Louis, Mo. Chronometric electrical switch. No. 936,950; Oct. 12; Sp. p. 2795; Gaz. vol. 147; p. 467.
- Scheuerer, A., Jr., Hoboken, N. J. Multiple-printing press. No. 939,553; Nov. 9; Sp. p. 2441; Gaz. vol. 148; p. 405.
- Scheuffgen, R., Salskotten, near Paderborn, Germany. Apparatus for the production of flame-extinguishing gases. No. 918,201; Apr. 13; Sp. p. 2522; Gaz. vol. 141; p. 450.
- Scheunert, E., Silver Creek, Wis. Filter. No. 911,682; Feb. 9; Sp. p. 1315; Gaz. vol. 139; p. 245.
- Scheurer, R. C., and L. Marek, Union Hill, N. J. Clothes-line tightener. No. 939,099; Nov. 2; Sp. p. 1377; Gaz. vol. 148; p. 224.
- Scheurmann, W., Newark-on-Trent, England, assignor to Henry R. Worthington. Balancing device for centrifugal and similar pumps, blowers, and the like. No. 933,345; Sept. 7; Sp. p. 704; Gaz. vol. 146; p. 109.
- Scheurmann, W., Newark-on-Trent, England, assignor to Henry R. Worthington. Air and gas pump or compressor and the like. No. 933,346; Sept. 7; Sp. p. 705; Gaz. vol. 146; p. 110.
- Scheurmann, W., Newark-upon-Trent, England, assignor to Henry R. Worthington. Centrifugal and similar pump, blower, and the like. No. 939,333; Nov. 9; Sp. p. 1942; Gaz. vol. 148; p. 332.
- Schickerling, A., New York, N. Y. Easel. No. 925,136; June 15; Sp. p. 4349; Gaz. vol. 143; p. 742.
- Schiebendrein, M., St. Louis, Mo. Wheat-scouring machine. No. 944,510; Dec. 28; Sp. p. 5342; Gaz. vol. 149; p. 931.
- Schieble Toy & Novelty Company. (See Turner, J. C., assignor.)
- Schierman, A. A., et al. (See Isgrig, G. F., assignor.)
- Schies, J., Anderson, Ind. Jar-closure. No. 941,538; Nov. 30; Sp. p. 6816; Gaz. vol. 148; p. 1154.
- Schikorra, I., Philadelphia, Pa. Douche or bed pan. No. 924,383; June 8; Sp. p. 2810; Gaz. vol. 143; p. 457.
- Schild, E. H., Baltimore, Md., assignor to L. F. Adt, Albany, N. Y. Eyeglasses. No. 920,666; May 4; Sp. p. 1169; Gaz. vol. 142; p. 188.
- Schildbach, E., Elmhurst, Ill. Fishing appliance. No. 916,891; Mar. 30; Sp. p. 6515; Gaz. vol. 140; p. 1164.
- Schill, P., assignor of one-half to W. A. Rehburg, Cleveland, Ohio. Heater. No. 932,500; Aug. 31; Sp. p. 6074; Gaz. vol. 145; p. 1053.
- Schille, F., Brooklyn, N. Y. Butter-dish. No. 931,497; Aug. 17; Sp. p. 3952; Gaz. vol. 145; p. 681.
- Schille, F., Brooklyn, N. Y. Match-safe. No. 939,100; Nov. 2; Sp. p. 1378; Gaz. vol. 148; p. 224.
- Schiller, A., Schöneberg, near Berlin, Germany. Bottle-blowing machine. No. 923,898; June 8; Sp. p. 1781; Gaz. vol. 143; p. 296.
- Schiller, R. (See Bauer, R., assignor.)
- Schilling, A., Berlin, Germany. Roller-bearing. No. 928,800; July 20; Sp. p. 4343; Gaz. vol. 144; p. 757.
- Schilling, F., Nuremberg, Germany. Antiseptic protector for telephone transmitters or receivers. No. 935,274; Sept. 28; Sp. p. 4625; Gaz. vol. 146; p. 822.
- Schilling, G. W., Philadelphia, Pa. Swing. No. 936,818; Oct. 12; Sp. p. 2536; Gaz. vol. 147; p. 424.
- Schilling, J., Halensee, near Berlin, Germany. Filament for electric incandescent lamps. No. 917,159; Apr. 6; Sp. p. 408; Gaz. vol. 141; p. 71.
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- Schimansky, H., Rixdorf, near Berlin, Germany. Lead matrix. No. 922,199; May 18; Sp. p. 4334; Gaz. vol. 142; p. 754.
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- Schimmel, F., Faribault, Minn. Sanding, abrading, or polishing machine. No. 941,957; Nov. 30; Sp. p. 7698; Gaz. vol. 148; p. 1297.
- Schimmel, G. R., Detroit, Mich. Hypodermic needle. No. 918,774; Apr. 20; Sp. p. 3767; Gaz. vol. 141; p. 668.
- Schimpff, T. B., Scranton, Pa. Bung-bushing cooler. No. 922,961; May 25; Sp. p. 5913; Gaz. vol. 142; p. 1030.
- Schindler, H. E., Sisseton, S. D. Tire. No. 917,493; Apr. 6; Sp. p. 1050; Gaz. vol. 141; p. 184.
- Schindler, J. (See Puttkammer, Orthmann, and Schindler.)
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- Schlangen, S., assignor to Schlangen Racker Company, Chicago, Ill. Filling apparatus for liquids. No. 940,366; Nov. 16; Sp. p. 4256; Gaz. vol. 148; p. 717.
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- Schlapbach, S. J., C. R. Ward, and J. S. Sheridan, McKeesport, Pa. Tray. No. 930,890; Aug. 10; Sp. p. 2618; Gaz. vol. 145; p. 448.
- Schlechter, G. A., Reading, Pa. Mounting for emblems or monograms. No. 921,566; May 11; Sp. p. 3013; Gaz. vol. 142; p. 517.
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- Schlegel, A., Decatur, Ind. Horseshoe. No. 918,094; Apr. 13; Sp. p. 2307; Gaz. vol. 141; p. 414.
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- Schleich, C. L., Berlin, Germany. Preparation of chloroform in solid condition. No. 925,658; June 22; Sp. p. 5362; Gaz. vol. 143; p. 939.
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- Schley, G. B., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 925,392; June 15; Sp. p. 4813; Gaz. vol. 143; p. 823.
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- Schlichter, G., and G. Frankó, Nyiregyháza, Austria-Hungary. Safety appliance for railroad-vehicles. No. 917,666; Apr. 6; Sp. p. 1363; Gaz. vol. 141; p. 240.
- Schlichting, H., Benicia, Cal. Lock. No. 927,380; July 6; Sp. p. 1354; Gaz. vol. 144; p. 225.
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- Schloemilch, W., Oberschöneweide, near Berlin, Germany. Receiver for space telegraphy. No. 936,258; Oct. 5; Sp. p. 1352; Gaz. vol. 147; p. 208.
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- Schloss, A., Stettin, assignor to Fürst Guido Donnersmarck'sche Kunstseiden & Acetatwerke, Sydowsane, near Stettin, Germany. Manufacture of objects from cellulose acetate. No. 922,340; May 18; Sp. p. 4597; Gaz. vol. 142; p. 799.
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- Schloss, J. W., New York, N. Y. Button. No. 918,775; Apr. 20; Sp. p. 3768; Gaz. vol. 141; p. 668.
- Schloss, M. W., New York, N. Y. Garter-clasp. No. 920,186; May 4; Sp. p. 185; Gaz. vol. 142; p. 29.
- Schlösser, F. A., Mansfield, Ohio. Radiator. No. 933,118; Sept. 7; Sp. p. 167; Gaz. vol. 146; p. 28.
- Schlottger, G. A., Dresden, Germany. Ship-propeller. No. 921,896; May 18; Sp. p. 3720; Gaz. vol. 142; p. 655.
- Schlottmann, F. C. A., New York, N. Y. Clenching-nail lock. No. 926,140; June 29; Sp. p. 6390; Gaz. vol. 143; p. 1134.
- Schlueter, A. H., Oakland, Cal. Milk-heater. No. 940,367; Nov. 16; Sp. p. 4275; Gaz. vol. 148; p. 718.
- Schlueter, H. W., Denver, Colo., assignor, by mesne assignments, to Interlocking Tube Company. Interlocking construction for docks, piers, jetties, building-foundations, &c. No. 910,421; Jan. 19; Sp. p. 4066; Gaz. vol. 138; p. 728.
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- Schlueter, P., Yonkers, N. Y. Washpan. No. 924,384; June 8; Sp. p. 2811; Gaz. vol. 143; p. 457.
- Schluss, M., Bredeneu, Germany. Roller-bearing. No. 943,570; Dec. 14; Sp. p. 3286; Gaz. vol. 149; p. 554.
- Schlüssler, A., assignor of one-half to A. Burger, New York, N. Y. Divided bolt. No. 940,739; Nov. 23; Sp. p. 5091; Gaz. vol. 148; p. 868.
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- Schmeisser, L., Erfurt, assignor to Rheinische Metallwaren- und Maschinenfabrik, Düsseldorf-Derendorf, Germany. Breech mechanism for self-loading firearms. No. 909,233; Jan. 12; Sp. p. 1645; Gaz. vol. 138; p. 296.
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- Schmertz, E. A., Atlantic City, N. J. Suspensory. No. 909,948; Jan. 19; Sp. p. 3057; Gaz. vol. 138; p. 566.
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- Schmid, H., Mülhausen, Germany, assignor to Firm of C. H. Boehringer Sohn, Nieder Ingelheim, Germany. Tanning skins and hides. No. 937,720; Oct. 19; Sp. p. 4420; Gaz. vol. 147; p. 750.
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- Schmidt, C., Long Island City, N. Y. Self-closing gas-fixture. No. 926,774; July 6; Sp. p. 134; Gaz. vol. 144; p. 22.
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- Schmidt, H. C., Magnolia, assignor of one-third to W. R. Miller, Palmyra, N. J., and one-third to J. V. Pittman, Philadelphia, Pa. Savings-bank. No. 930,496; Aug. 10; Sp. p. 1751; Gaz. vol. 145; p. 316.
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- Schmidt, M. E., Convent, N. J. Traction device. No. 939,334; Nov. 9; Sp. p. 1945; Gaz. vol. 148; p. 332.
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- Schmiechen, R., Newell, Iowa. Air-ship. No. 931,225; Aug. 17; Sp. p. 3388; Gaz. vol. 145; p. 588.
- Schmieder, J. C., Morsemer, N. J. Ruching-reel. No. 926,359; June 29; Sp. p. 6854; Gaz. vol. 143; p. 1206.
- Schmitt, H., McPherson, Kans. Wind-wheel. No. 933,394; Sept. 7; Sp. p. 814; Gaz. vol. 146; p. 126.
- Schmitt, A. (See Haddock and Schmitt.)
- Schmitt, C. A., assignor to Carter's Ink Company, Boston, Mass. Paste pot or jar. No. 941,278; Nov. 23; Sp. p. 6259; Gaz. vol. 148; p. 1047.
- Schmitt, C. B., Cincinnati, Ohio. Portable and separable sink-table and bath-tub. No. 923,203; June 1; Sp. p. 176; Gaz. vol. 143; p. 29.
- Schmitt, E., and A. Anton, Plainfield, N. J. Reflector. No. 919,780; Apr. 27; Sp. p. 6030; Gaz. vol. 141; p. 1036.
- Schmitt, E. D., assignor to F. G. Turner, Baltimore, Md. Machine for applying metal caps or closures to jars. No. 933,120; Sept. 7; Sp. p. 171; Gaz. vol. 146; p. 29.
- Schmitt, E. D., assignor to F. G. Turner, Baltimore, Md. Jar cap or closure. No. 933,347; Sept. 7; Sp. p. 707; Gaz. vol. 146; p. 110.
- Schmitt, E. D., assignor to International Vending Machine Company, Baltimore, Md. Stamp or ticket vending machine. No. 938,900; Nov. 2; Sp. p. 990; Gaz. vol. 148; p. 156.
- Schmitt, E. D., assignor to M. L. Pollock, Baltimore, Md. Coin-selecting mechanism for vending-machines. No. 940,074; Nov. 16; Sp. p. 3614; Gaz. vol. 148; p. 616.
- Schmitt, E. P., Seymour, Ind. Alarm for carding-machines. No. 939,750; Nov. 9; Sp. p. 2876; Gaz. vol. 148; p. 474.

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- Schmitt, H. J., Jersey City, N. J. Beverage-siphon. No. 938,517; Nov. 2; Sp. p. 173; Gaz. vol. 148; p. 24.
- Schmitt, J., Zurich, Switzerland. Fore-carriage of vehicles. No. 939,555; Nov. 9; Sp. p. 2445; Gaz. vol. 148; p. 406.
- Schmitt, J., and C. L. Ruehs, assignors of one-third to C. Schleyer, Chicago, Ill. Carving-machine. No. 910,422; Jan. 19; Sp. p. 4070; Gaz. vol. 138; p. 729.
- Schmitt, J. R., Frankfort-on-the-Main, Germany. Apparatus for opening cigar-bunch molds and releasing the bunches therein. No. 925,600; June 22; Sp. p. 5239; Gaz. vol. 143; p. 922.
- Schmitt, L. H. (See Thomson and Schmitt.)
- Schmitt, O. (See Barnes and Schmitt.)
- Schmitz, E., Chicago, Ill. Mixer for culinary use. No. 925,038; June 15; Sp. p. 4167; Gaz. vol. 143; p. 709.
- Schmitz, F., and W. Shanahan, Depew, N. Y. Non-refillable bottle. No. 914,885; Mar. 9; Sp. p. 2588; Gaz. vol. 140; p. 432.
- Schmitz, F. J., Chicago, Ill. Banana-shipping case. No. 933,206; Sept. 7; Sp. p. 388; Gaz. vol. 146; p. 61.
- Schmitz, H., Grevenbroich, Germany. Centrifugal machine. No. 934,221; Sept. 14; Sp. p. 2545; Gaz. vol. 146; p. 420.
- Schmitz, J. (See Gannoe, T. A., assignor.)
- Schmitz, J. J., Cincinnati, Ohio. Wheel. No. 917,967; Apr. 13; Sp. p. 2030; Gaz. vol. 141; p. 369.
- Schmuck, J., Steglitz, assignor to Firm of Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Device for exposing light-sensitive layer-carriers. No. 909,459; Jan. 12; Sp. p. 2076; Gaz. vol. 138; p. 369.
- Schmuck, J., Steglitz, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Packing for light-sensitive layer-carriers. No. 930,621; Aug. 10; Sp. p. 2056; Gaz. vol. 145; p. 360.
- Schmucker, A. F., assignor of one-half to W. Hickey, Denver, Colo. Time-recorder. No. 922,633; May 25; Sp. p. 5225; Gaz. vol. 142; p. 924.
- Schmunk, C. E., assignor to M. Schmunk, Pittsburg, Pa. Machine for making fuses. No. 942,938; Dec. 14; Sp. p. 1942; Gaz. vol. 149; p. 338.
- Schmunk, M. (See Schmunk, C. E., assignor.)
- Schmutz, J. (See Gannoe, T. A., assignor.)
- Schnabel, L., et al. (See Cobham, F. P., assignor.)
- Schnabel, H. E., assignor to C. S. Roberts, Chicago, Ill. Machine for making wire posts, &c. No. 937,474; Oct. 19; Sp. p. 3932; Gaz. vol. 147; p. 669.
- Schnabel, J. F. (See Hall and Schnabel.)
- Schnabel, J. F., New York, N. Y. Plate-handling apparatus. No. 916,374; Mar. 23; Sp. p. 5489; Gaz. vol. 140; p. 974.
- Schnabel, M., Newcastle, Cal. Elastic wheel. No. 938,901; Nov. 2; Sp. p. 996; Gaz. vol. 148; p. 156.
- Schneeloch, A., assignor to E. C. Stearns & Co., Syracuse, N. Y. Escapement mechanism of type-writing machines. No. 944,697; Dec. 28; Sp. p. 5746; Gaz. vol. 149; p. 995.
- Schneffey, E. B., trustee, et al. (See Crandall, J. A., assignor.)
- Schneible, J., Chicago, Ill. Refrigerating apparatus. No. 928,546; July 20; Sp. p. 3830; Gaz. vol. 144; p. 672.
- Schneider, A., Chicago, Ill. Rouge-holder. No. 911,270; Feb. 2; Sp. p. 494; Gaz. vol. 139; p. 84.
- Schneider, A. J., Newark, N. J. Adjustable bracket. No. 935,416; Sept. 28; Sp. p. 4902; Gaz. vol. 146; p. 867.
- Schneider, A. J., Ironwood, Mich. Self-adjusting steel railway-tie. No. 942,754; Dec. 7; Sp. p. 1488; Gaz. vol. 149; p. 244.
- Schneider, Aktiengesellschaft, H. (See Blankenburg, C., assignor.)
- Schneider, B., Minneapolis, Minn. Dandelion-digger. No. 917,802; Apr. 13; Sp. p. 1681; Gaz. vol. 141; p. 312.
- Schneider, C. C., assignor of one-half to J. H. Cutter, St. Louis, Mo. Cloth-laying machine. No. 912,738; Feb. 16; Sp. p. 3592; Gaz. vol. 139; p. 638.
- Schneider, C. F., et al. (See Allen, J. M., assignor.)
- Schneider, E., Le Creusot, France. Alloy for armor-plates and other uses. No. 925,659; June 22; Sp. p. 5363; Gaz. vol. 143; p. 939.
- Schneider, E., Le Creusot, France. Treatment of steels for industrial purposes. No. 931,499; Aug. 17; Sp. p. 3954; Gaz. vol. 145; p. 682.
- Schneider, E., Le Creusot, France. Alloy for armor-plates and other uses. No. 934,697; Sept. 21; Sp. p. 3473; Gaz. vol. 146; p. 605.
- Schneider, E., Le Creusot, France. Safety device for the fuses of projectiles. No. 939,447; Nov. 9; Sp. p. 2223; Gaz. vol. 145; p. 370.
- Schneider, E., Vienna, Austria-Hungary. Speedometer. No. 938,278; Oct. 26; Sp. p. 5597; Gaz. vol. 147; p. 957.
- Schneider, E. F., and R. J. A. Pasternack, Little Rock, Ark. Coin-controlled vending-machine. No. 908,807; Jan. 5; Sp. p. 783; Gaz. vol. 138; p. 123.
- Schneider, E. O., Dresden, Germany. Cylindrical positive electrode. No. 924,503; June 8; Sp. p. 3028; Gaz. vol. 143; p. 495.
- Schneider, F., London, England. Casting of metals or the like. No. 911,450; Feb. 2; Sp. p. 813; Gaz. vol. 139; p. 142.
- Schneider, F. G., and W. C. L. Ziehn, Chicago, Ill.; said Ziehn assignor to said Schneider. Bar-fixture. No. 942,014; Nov. 30; Sp. p. 7807; Gaz. vol. 148; p. 1314.
- Schneider, G. (See Speker and Schneider.)
- Schneider, G., Friedeburg, assignor to E. Abresch, Neustadt-on-the-Hardt, Germany. Extraction of copper from raw unroasted ores and other products. No. 937,965; Oct. 26; Sp. p. 4927; Gaz. vol. 147; p. 880.
- Schneider, G., assignor of one-half to L. B. Stevens, Bluffton, Ind. Fence-brace. No. 942,592; Dec. 7; Sp. p. 1167; Gaz. vol. 149; p. 190.
- Schneider, G. C., Freiberg, assignor to E. Abresch, Neustadt a. d. Haardt, Germany. Leaching copper ores. No. 932,643; Aug. 31; Sp. p. 6390; Gaz. vol. 145; p. 1103.
- Schneider-Gerster, C., Gelterkinden, Switzerland. Double batten for ribbon-loom. No. 911,165; Feb. 2; Sp. p. 283; Gaz. vol. 139; p. 50.
- Schneider, H., Wilmersdorf, near Berlin, Germany. Disinfectant. No. 934,844; Sept. 21; Sp. p. 3762; Gaz. vol. 146; p. 653.
- Schneider, H., Hamburg, Germany. Making diphenyl-ortho-oxalic esters. No. 942,674; Dec. 7; Sp. p. 1329; Gaz. vol. 149; p. 219.
- Schneider & Helmecke. (See Simonides, B., assignor.)
- Schneider, J., Ann Arbor, Mich. Clutch. No. 931,590; Aug. 17; Sp. p. 3956; Gaz. vol. 145; p. 682.
- Schneider, J., Belleville, Ill. Washboard. No. 934,222; Sept. 14; Sp. p. 2548; Gaz. vol. 146; p. 421.
- Schneider, J. C., Minneapolis, Minn. Horseshoe-calk. No. 938,343; Oct. 26; Sp. p. 5754; Gaz. vol. 147; p. 979.
- Schneider, J. F., St. James, Mo. Railway-tie. No. 931,226; Aug. 17; Sp. p. 3393; Gaz. vol. 145; p. 588.
- Schneider, J. G., Würzburg, Germany. Flat film-pack. No. 941,103; Nov. 23; Sp. p. 5863; Gaz. vol. 148; p. 988.
- Schneider, J. H., Cottleville, Mo. Egg-case fastener. No. 908,612; Jan. 5; Sp. p. 385; Gaz. vol. 138; p. 62.
- Schneider, Jaquet & Cie. (See Jaquet, C., assignor.)
- Schneider, L. C., Philadelphia, Pa., assignor to Philadelphia Pipe Bending Company. Coiling pipe. No. 928,073; July 13; Sp. p. 2842; Gaz. vol. 144; p. 484.
- Schneider, L. C., Philadelphia, Pa., assignor to Philadelphia Pipe Bending Company. Pipe-coiling machine. No. 928,220; July 13; Sp. p. 3134; Gaz. vol. 144; p. 534.
- Schneider, O., Reichenbach, Voigtland, Germany. Sheet-separating device for printing and similar machines. No. 931,227; Aug. 17; Sp. p. 3394; Gaz. vol. 145; p. 589.
- Schneider, P., Chicago, Ill. Washing-machine. No. 908,808; Jan. 5; Sp. p. 784; Gaz. vol. 138; p. 123.
- Schneider, R., Corona, N. Y. Combination gas-stove and water-boiler. No. 938,021; Oct. 26; Sp. p. 5053; Gaz. vol. 147; p. 869.
- Schnelbach, H. A. (See Macbeth and Schnelbach.)
- Schnelbach, H. A., Crafon, Pa. Drawing glass cylinders. No. 939,101; Nov. 2; Sp. p. 1380; Gaz. vol. 148; p. 225.
- Schnelbach, H. A., Crafon, Pa., and E. J. Schatz, Marion, Ind., assignors to Macbeth-Evans Glass Company, Pittsburg, Pa. Glass-blowing machine. No. 922,342; May 18; Sp. p. 4599; Gaz. vol. 142; p. 799.
- Schnelbach, H. A., Crafon, and H. A. Heupel, Charleroi, assignors to Macbeth-Evans Glass Company, Pittsburg, Pa. Glass-blowing machine. No. 929,330; July 27; Sp. p. 5491; Gaz. vol. 144; p. 962.
- Schnellsetzmaschinenengesellschaft mit beschränkter Haftung. (See Drewell, H., assignor.)
- Schnepf, G. L., New York, N. Y. Door-hanger. No. 925,234; June 15; Sp. p. 4539; Gaz. vol. 143; p. 775.
- Schnitzler, B., New York, N. Y. Sash-lock. No. 916,203; Mar. 23; Sp. p. 5179; Gaz. vol. 140; p. 917.
- Schnitzspan, W., New York, N. Y. Indicator. No. 917,495; Apr. 6; Sp. p. 1054; Gaz. vol. 141; p. 184.
- Schnoor, P. J. A., Holstein, Iowa, assignor to Great Western Novelty Company, Omaha, Nebr. Grain-car door. No. 932,335; Aug. 24; Sp. p. 5724; Gaz. vol. 145; p. 877.
- Schnuerer, L., Elyria, Ohio. Culvert. No. 942,466; Dec. 7; Sp. p. 918; Gaz. vol. 149; p. 148.
- Schnur, C. A., St. Louis county, assignor to Wagner Electric & Manufacturing Company, St. Louis, Mo. Short-circuiting device for electric motors. No. 922,521; May 25; Sp. p. 4985; Gaz. vol. 142; p. 887.
- Schnurr, J., Rochester, N. Y. Stopping device. No. 924,278; June 8; Sp. p. 2584; Gaz. vol. 143; p. 421.
- Schöde, G. A., Dresden, Germany. Hydrocarbon-burner. No. 933,853; Sept. 14; Sp. p. 1820; Gaz. vol. 146; p. 300.
- Schodde, G. F., Pittsburg, Pa. Control-valve mechanism. No. 926,142; June 29; Sp. p. 6393; Gaz. vol. 143; p. 1135.
- Schoell, O., Buffalo, N. Y. Mechanism for converting reciprocating into rotary motion. No. 924,003; June 8; Sp. p. 1988; Gaz. vol. 143; p. 330.
- Schoell R., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 917,365; Apr. 6; Sp. p. 831; Gaz. vol. 141; p. 142.
- Schoell R., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 943,471; Dec. 14; Sp. p. 3084; Gaz. vol. 149; p. 519.



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- Schoeller, G. A. (See Krone, Schoeller, and Sundhausen.)
- Schoeller, G. A., Mulheim-on-the-Ruhr, and H. Sundhausen, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Automatic starter for continuous-current electromotors. No. 913,437; Feb. 23; Sp. p. 4964; Gaz. vol. 139; p. 889.
- Schoellkopf, Hartford & Hanna Company. (See Schoellkopf, J. F., assignor.)
- Schoellkopf, J. F., assignor to Schoellkopf, Hartford & Hanna Company, Buffalo, N. Y. Waterproof cement and making the same. No. 930,697; Aug. 10; Sp. p. 2202; Gaz. vol. 145; p. 384.
- Schoen, H. W., Scranton, Pa. Horseshoe-calk. No. 927,884; July 13; Sp. p. 2467; Gaz. vol. 144; p. 421.
- Schoenberg, F. E., St. Louis, Mo. Metal-and-wood window-screen frame. No. 929,251; July 27; Sp. p. 5267; Gaz. vol. 144; p. 934.
- Schoenberg, R. A. (See Flynn, M. J., assignor.)
- Schoenberg, R. A., New York, N. Y. Armored plug-receptacle. No. 911,844; Feb. 9; Sp. p. 1598; Gaz. vol. 139; p. 297.
- Schoenberg, R. A., assignor to I. S. Rosenheim, New York, N. Y. Electric-light socket. No. 943,273; Dec. 14; Sp. p. 2668; Gaz. vol. 149; p. 452.
- Schoenberg, R. A., assignor to I. S. Rosenheim, New York, N. Y. Mechanical movement. No. 943,274; Dec. 14; Sp. p. 2671; Gaz. vol. 149; p. 452.
- Schoenberg, W., Chicago, Ill. Roller-skate. No. 936,173; Oct. 5; Sp. p. 1205; Gaz. vol. 147; p. 182.
- Schoenecke, A. J., assignor to Illinois Heater and Manufacturing Company, Chicago, Ill. Corner-piece. No. 925,601; June 22; Sp. p. 5240; Gaz. vol. 143; p. 922.
- Schoenfeld, M., Rorschach, Switzerland. Threading device for shuttles. No. 920,397; May 4; Sp. p. 626; Gaz. vol. 142; p. 100.
- Schoenhaar, W., Wilmington, Del. Baker's oven. No. 940,559; Nov. 16; Sp. p. 4699; Gaz. vol. 148; p. 782.
- Schoenky, O. B. (See Forney and Schoenky.)
- Schoenman, A., Denver, Colo., assignor to Reading Hardware Company, Reading, Pa. Door-lock. No. 916,610; Mar. 30; Sp. p. 6011; Gaz. vol. 140; p. 1078.
- Schoenmehl, C. B. (See Buckley, J., assignor.)
- Schoenmehl, C. B., Waterbury, Conn. Battery-electrode. No. 922,726; May 25; Sp. p. 5410; Gaz. vol. 142; p. 953.
- Schoenmehl, C. B., Waterbury, Conn. Battery-electrode support. No. 922,727; May 25; Sp. p. 5411; Gaz. vol. 142; p. 954.
- Schoenmehl, C. B., Waterbury, Conn. Battery-electrode support. No. 922,730; May 25; Sp. p. 5416; Gaz. vol. 142; p. 955.
- Schoenmehl, C. B., Waterbury, Conn. Battery-element support. No. 922,731; May 25; Sp. p. 5418; Gaz. vol. 142; p. 955.
- Schoenmehl, C. B., Waterbury, Conn. Battery-element support. No. 943,275; Dec. 14; Sp. p. 2675; Gaz. vol. 149; p. 452.
- Schoenmehl, C. B., and W. G. C. Krause, Waterbury, Conn.; said Krause assignor to said Schoenmehl. Battery-electrode support. No. 922,728; May 25; Sp. p. 5413; Gaz. vol. 142; p. 954.
- Schoenmehl, C. B., and W. G. C. Krause, Waterbury, Conn.; said Krause assignor to said Schoenmehl. Battery-electrode support. No. 922,729; May 25; Sp. p. 5415; Gaz. vol. 142; p. 954.
- Schoepflin, W. F., Edwall, Wash. Draft attachment for wagons. No. 920,398; May 4; Sp. p. 628; Gaz. vol. 142; p. 100.
- Schoeppel, J. F., Baltimore, Md. Hook and eye. No. 926,775; July 6; Sp. p. 135; Gaz. vol. 144; p. 22.
- Schoettes, J. F., Chicago, Ill. Box-opener. No. 924,193; June 8; Sp. p. 2396; Gaz. vol. 143; p. 392.
- Schoettli, J., assignor to D. Frank, Brooklyn, and J. Trountsine, New York, N. Y. Sterilizing apparatus. No. 916,611; Mar. 30; Sp. p. 6015; Gaz. vol. 140; p. 1078.
- Schoff, C. H., Half Moon Bay, Cal. Distillate-burner. No. 922,522; May 25; Sp. p. 4987; Gaz. vol. 142; p. 887.
- Schoff, H. W., River Forest, assignor to Imperial Brass Manufacturing Company, Chicago, Ill. Burner. No. 938,902; Nov. 2; Sp. p. 998; Gaz. vol. 148; p. 157.
- Schofield, A. B., deceased; B. W. Schofield, executrix, New York, N. Y. Combination-tool. No. 920,087; Apr. 27; Sp. p. 6696; Gaz. vol. 141; p. 1137.
- Schofield, B. W., executrix. (See Schofield, A. B.)
- Schofield, J. M., Stockton, Cal. Odorless sewer system. No. 933,121; Sept. 7; Sp. p. 174; Gaz. vol. 146; p. 29.
- Schofield, W. (See Stevenson, J. W., assignor.)
- Scholes, D. R., assignor to Air Motor Company, Chicago, Ill. Transmission-tower. No. 933,493; Sept. 7; Sp. p. 1105; Gaz. vol. 146; p. 158.
- Scholes, T., Chicago, Ill. Cumulative book. No. 916,034; Mar. 23; Sp. p. 4875; Gaz. vol. 140; p. 863.
- Scholes, T., Chicago, Ill. Cumulative book. No. 916,035; Mar. 23; Sp. p. 4876; Gaz. vol. 140; p. 863.
- Scholes, T., Chicago, Ill. Cumulative book. No. 916,036; Mar. 23; Sp. p. 4878; Gaz. vol. 140; p. 864.
- Scholl, A., Mannheim, Germany. Apparatus for withdrawing the air from steam-heating installations. No. 910,588; Jan. 26; Sp. p. 4441; Gaz. vol. 138; p. 810.
- Scholl, H. H., St. Louis, Mo. Lady's hat-frame. No. 926,360; June 29; Sp. p. 6855; Gaz. vol. 143; p. 1206.
- Schollenberger, E. M., assignor of two-thirds to H. C. Paterson and G. Roth, Chicago, Ill. Guard-covering for third rails. No. 910,730; Jan. 26; Sp. p. 4700; Gaz. vol. 138; p. 854.
- Scholler, F. C., Philadelphia, Pa. Device for lubricating thread or yarn. No. 918,776; Apr. 20; Sp. p. 3769; Gaz. vol. 141; p. 668.
- Schollmeyer, G., Köthen, Germany. Controlling device for filling vessels. No. 942,755; Dec. 7; Sp. p. 1489; Gaz. vol. 149; p. 244.
- Scholtz, J., San Francisco, Cal. Music-sheet turner. No. 927,174; July 6; Sp. p. 986; Gaz. vol. 144; p. 160.
- Scholz, C. O., assignor of one-half to A. T. Stewart, Pittsburg, Pa. Apparatus for filling metal pipes with sand. No. 942,355; Dec. 7; Sp. p. 684; Gaz. vol. 149; p. 110.
- Scholz, H., Berlin, assignor, by mesne assignments, to Kautschukgesellschaft Schön & Company, Harburg-on-the-Elbe, Germany. Obtaining pure caoutchouc, gutta-percha, and the like. No. 924,584; June 8; Sp. p. 3190; Gaz. vol. 143; p. 522.
- Scholz, O. F., Charleston, W. Va. Wire clamp or support. No. 929,026; July 27; Sp. p. 4810; Gaz. vol. 144; p. 860.
- Schönberg, A., New York, N. Y. Hand-bag. No. 928,801; July 20; Sp. p. 4344; Gaz. vol. 144; p. 757.
- Schonboe, H., Omaha, Neb. Life-saving mattress. No. 933,671; Sept. 7; Sp. p. 1443; Gaz. vol. 146; p. 217.
- Schone, W. D. (See Boenker and Schone.)
- Schöner, O., and J. Hesserberger, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Production of long stable electric arcs. No. 930,238; Aug. 3; Sp. p. 1261; Gaz. vol. 145; p. 208.
- Schönich, H., and J. Langer, Vienna, Austria-Hungary. Ladder. No. 944,000; Dec. 21; Sp. p. 4243; Gaz. vol. 149; p. 730.
- Schoonmaker, L. M., New York, N. Y. Sign. No. 908,613; Jan. 5; Sp. p. 386; Gaz. vol. 138; p. 62.
- Schoonover, D. (See Hustan, J. V., assignor.)
- Schoonover, W. J., assignor, by mesne assignments, to Iowa Washing Machine Company, Des Moines, Iowa. Gearing. No. 933,672; Sept. 7; Sp. p. 1444; Gaz. vol. 146; p. 217.
- Schoop, M. U., Bois Colombes, France. Flux for the autogenous welding of aluminum. No. 922,523; May 25; Sp. p. 4988; Gaz. vol. 142; p. 887.
- Schoop, M. U., Bois-Colombes, France. Welding compound. No. 943,164; Dec. 14; Sp. p. 2443; Gaz. vol. 149; p. 415.
- Schopbach, C. H., Aurora, Ill. Corset. No. 912,624; Feb. 16; Sp. p. 3319; Gaz. vol. 139; p. 594.
- Schoppe, F. (See Käufer and Schoppe.)
- Schöppe, Firm of Oscar. (See Dönitz, J., assignor.)
- Schopper, L. (See Klemm and Schopper.)
- Schopper, L., Leipzig, Germany. Testing the tensile strength of elastic materials. No. 922,524; May 25; Sp. p. 4990; Gaz. vol. 142; p. 888.
- Schorino, F., Passaic, N. J. Gear-operating device. No. 912,494; Feb. 16; Sp. p. 3028; Gaz. vol. 139; p. 548.
- Schorino, F., Passaic, N. J. Locking mechanism for transmission-gearing. No. 915,225; Mar. 16; Sp. p. 3255; Gaz. vol. 140; p. 569.
- Schossow, F. A., Detroit, Mich. Flushing-tank for closets. No. 943,793; Dec. 21; Sp. p. 3787; Gaz. vol. 149; p. 659.
- Schott, E. L. (See Apt and Schott.)
- Schott, H. H., North Yakima, Wash. Seat attachment. No. 910,589; Jan. 26; Sp. p. 4443; Gaz. vol. 138; p. 810.
- Schott, W., St. Louis, Mo. Lock for machine-screws. No. 920,399; May 4; Sp. p. 629; Gaz. vol. 142; p. 100.
- Schott, W., assignor to Firm of Internationale Bohrgesellschaft A. G., Erkelenz, Germany. Deep-boring apparatus. No. 909,234; Jan. 12; Sp. p. 1648; Gaz. vol. 138; p. 296.
- Schou, E., London, England. Butter manufacture. No. 913,920; Mar. 2; Sp. p. 541; Gaz. vol. 140; p. 87.
- Schouler, T. T. (See Madsen, G. C., assignor.)
- Schowalter, E. J. (See Flegel, H. D., assignor.)
- Schrade, G., and E. J. Conklin, Walden, N. Y.; said Conklin assignor to said Schrade. Die-maker's filing-tool. No. 925,954; June 22; Sp. p. 6002; Gaz. vol. 143; p. 1037.
- Schrade, J. L., New York, N. Y. Apparatus for the evaporating of liquids. No. 909,460; Jan. 12; Sp. p. 2077; Gaz. vol. 138; p. 369.
- Schrader, C., Halensee, near Berlin, assignor to Siemens & Halske, A. G., Berlin, Germany. Coil. No. 926,964; July 6; Sp. p. 537; Gaz. vol. 144; p. 88.
- Schrader, C. T., assignor of one-half to W. E. Kost, Kansas City, Mo. Lamp-globe. No. 944,348; Dec. 28; Sp. p. 4957; Gaz. vol. 149; p. 874.
- Schrader, G. H. F., Hartsdale, and G. C. Leonard, Port Chester, N. Y. Car-bumper or the like. No. 911,166; Feb. 2; Sp. p. 284; Gaz. vol. 139; p. 50.
- Schraeger, O. H., Kalamazoo, Mich. Loose-leaf binder. No. 910,867; Jan. 26; Sp. p. 4975; Gaz. vol. 138; p. 898.

*Alphabetical list of patentees—Continued.*

- Schraeger, O. H., Kalamazoo, Mich. Temporary binder. No. 918,707; Apr. 20; Sp. p. 3642; Gaz. vol. 141; p. 646.
- Schrag, A., Toronto, Ontario, assignor of one-half to H. D. Murray, Toronto, Canada. Molding-box and the like. No. 915,489; Mar. 16; Sp. p. 3769; Gaz. vol. 140; p. 656.
- Schrag, J. J., Moundridge, Kans. Stacker. No. 930,239; Aug. 3; Sp. p. 1266; Gaz. vol. 145; p. 208.
- Schrage, G., *et al.* (See Meyers, H. E., assignor.)
- Schram, A. L., Hillsboro, Ill. Closure for jars and the like. No. 933,122; Sept. 7; Sp. p. 175; Gaz. vol. 146; p. 30.
- Schram, A. L., Hillsboro, Ill. Gathering-pool for glass-tanks. No. 938,518; Nov. 2; Sp. p. 174; Gaz. vol. 148; p. 24.
- Schramek, L. J. (See Prescott and Schramek.)
- Schramke, E. J., Saginaw West Side, Mich. Ditching-machine. No. 917,669; Apr. 6; Sp. p. 1371; Gaz. vol. 141; p. 242.
- Schramm, A. F. (See Hulse and Schramm.)
- Schramm, A. W., Riverton, N. J., assignor to Electro Dental Manufacturing Company, Philadelphia, Pa. Pump. No. 941,958; Nov. 30; Sp. p. 7701; Gaz. vol. 148; p. 1297.
- Schramm, A. W., Riverton, N. J., and A. E. Oswald, assignors to Electro Dental Manufacturing Company, Philadelphia, Pa. Automatic switch. No. 920,667; May 4; Sp. p. 1175; Gaz. vol. 142; p. 189.
- Schraube, C., and E. Laudien, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Polychloranilin derivative. No. 926,023; June 22; Sp. p. 6141; Gaz. vol. 143; p. 1050.
- Schraudenbach, C., assignor to National Ammonia Company, St. Louis, Mo. Cap for shipping-cylinders. No. 938,793; Nov. 2; Sp. p. 733; Gaz. vol. 148; p. 118.
- Schraudner, F., assignor to Gus V. Brecht Butchers' Supply Co., St. Louis, Mo. Hanger for overhead railway-tracks. No. 923,448; June 1; Sp. p. 759; Gaz. vol. 143; p. 112.
- Schreiber, E. G., Hammond Ind. Gage-operating mechanism for planters. No. 934,575; Sept. 21; Sp. p. 3220; Gaz. vol. 146; p. 562.
- Schreiber, H. M. (See Tiernan and Schreiber.)
- Schreiber, H. O., and C. A. Geisz, East Liverpool, Ohio; said Geisz assignor to said Schreiber. Game apparatus. No. 943,472; Dec. 14; Sp. p. 3089; Gaz. vol. 149; p. 820.
- Schreiber, J., Jersey City, N. J. Truck. No. 920,496; May 4; Sp. p. 806; Gaz. vol. 142; p. 131.
- Schreiber, L., Cleveland, Ohio. Spool-holder for sewing-machines. No. 912,739; Feb. 16; Sp. p. 3593; Gaz. vol. 139; p. 634.
- Schreiber, L., Cleveland, Ohio. Combined drying chair and stand. No. 913,310; Feb. 23; Sp. p. 4721; Gaz. vol. 139; p. 846.
- Schreiber, R. H., *et al.* (See Lewis, F. G., assignor.)
- Schreidt, F., Mansfield, Ohio. Testing apparatus. No. 909,950; Jan. 19; Sp. p. 3062; Gaz. vol. 138; p. 567.
- Schreidt, F., Mansfield, Ohio. Valve. No. 914,886; Mar. 9; Sp. p. 2589; Gaz. vol. 140; p. 432.
- Schreidt, F., Mansfield, Ohio. Valve. No. 920,187; May 4; Sp. p. 186; Gaz. vol. 142; p. 30.
- Schreidt, F., Mansfield, Ohio. Valve. No. 938,080; Oct. 26; Sp. p. 5194; Gaz. vol. 147; p. 889.
- Schreier, G. A., Auburn, Ill. Electrical connector. No. 909,030; Jan. 5; Sp. p. 1221; Gaz. vol. 138; p. 196.
- Schreiner, A. W. (See Martin and Schreiner.)
- Schreiner, H. G., Canton, Ohio. Clothes-line holder. No. 916,790; Mar. 30; Sp. p. 6330; Gaz. vol. 140; p. 1131.
- Schrenkensen, M. H., and J. W. Heillon, New York, N. Y. Window-safe. No. 930,240; Aug. 3; Sp. p. 1268; Gaz. vol. 145; p. 209.
- Schreuder, J. G., Edgewood Park, Pa., and V. K. Spicer, Chicago, Ill., assignors to Union Switch & Signal Company, Swissvale, Pa. Apparatus for automatically controlling the speed of trains. No. 912,897; Feb. 16; Sp. p. 3872; Gaz. vol. 139; p. 683.
- Schrey, F. (See Forkarth, J. F., assignor.)
- Schrieler, E. G., Cincinnati, Ohio. Extensible case. No. 909,951; Jan. 19; Sp. p. 3067; Gaz. vol. 138; p. 568.
- Schriever, L., Bremen, Germany. Lubricator. No. 914,757; Mar. 9; Sp. p. 2330; Gaz. vol. 140; p. 390.
- Schriver, R. P., West Philadelphia, Pa. Sign. No. 924,585; June 8; Sp. p. 3191; Gaz. vol. 143; p. 522.
- Schrock, J. B., Bedford, Ind. Lens-holder. No. 936,368; Oct. 12; Sp. p. 1603; Gaz. vol. 147; p. 272.
- Schrode, J. L., Marion, Ky. Automatic oiler. No. 912,740; Feb. 16; Sp. p. 3593; Gaz. vol. 139; p. 634.
- Schröder, G., Nuremberg, Germany. Toy rifle, gun, and the like arm. No. 938,081; Oct. 26; Sp. p. 5196; Gaz. vol. 147; p. 890.
- Schroder, C., assignor of one-half to G. Reichart, San Diego, Cal. Wire-clutch. No. 937,097; Oct. 19; Sp. p. 3103; Gaz. vol. 147; p. 545.
- Schroder, F. (See Olsen and Schroder.)
- Schröder, F. C., Copenhagen, and J. Seldal, Gentofte, near Copenhagen, Denmark. Machine for gluing textile fabrics. No. 922,962; May 25; Sp. p. 5915; Gaz. vol. 142; p. 1031.
- Schröder, H., New York, N. Y. Phonograph-record. No. 909,461; Jan. 12; Sp. p. 2080; Gaz. vol. 138; p. 369.
- Schröder, H., New York, N. Y. Spring-motor. No. 912,625; Feb. 16; Sp. p. 3321; Gaz. vol. 139; p. 595.
- Schröder, H., New York, N. Y. Phonograph. No. 919,252; Apr. 20; Sp. p. 4897; Gaz. vol. 141; p. 822.
- Schroeder, A., St. Paul, Minn. Sash-bower. No. 933,587; Sept. 7; Sp. p. 1275; Gaz. vol. 146; p. 189.
- Schroeder, A. F., Cleveland, Ohio. Sherardizing apparatus. No. 933,725; Sept. 7; Sp. p. 1564; Gaz. vol. 146; p. 237.
- Schroeder, C., Bridgeport, Conn. Skylight-bar. No. 924,943; June 15; Sp. p. 3960; Gaz. vol. 143; p. 676.
- Schroeder, C. D., Kansas City, Kans. Lubricator. No. 910,731; Jan. 26; Sp. p. 4702; Gaz. vol. 138; p. 855.
- Schroeder, C. H., Chicago, Ill. Tobacco-pipe. No. 911,766; Feb. 9; Sp. p. 1464; Gaz. vol. 139; p. 273.
- Schroeder, H. C., assignor to Goss Printing Press Company, Chicago, Ill. Gearing. No. 940,200; Nov. 16; Sp. p. 3890; Gaz. vol. 148; p. 661.
- Schroeder, H. C., assignor to Goss Printing Press Company, Chicago, Ill. Variable-speed driving mechanism. No. 940,201; Nov. 16; Sp. p. 3896; Gaz. vol. 148; p. 661.
- Schroeder, H. F., Cleveland, Ohio. Waste-cock. No. 925,955; June 22; Sp. p. 6005; Gaz. vol. 143; p. 1037.
- Schroeder, H. F., assignor to Globe Brass Manufacturing Company, Cleveland, Ohio. Quick-closing faucet. No. 926,024; June 22; Sp. p. 6143; Gaz. vol. 143; p. 1050.
- Schroeder, H. H., *et al.* (See Cloos, J., assignor.)
- Schroeder Headlight Company. (See Nikonow, J. P., assignor.)
- Schroeder, J., Davenport, Iowa. Motor. No. 908,890; Jan. 5; Sp. p. 949; Gaz. vol. 138; p. 151.
- Schroeder, W., Dubuque, Iowa. Device for locking corks in bottles. No. 944,512; Dec. 28; Sp. p. 5348; Gaz. vol. 149; p. 932.
- Schroeder, W. S., assignor to C. S. Ferry, Chicago, Ill. Car-coupling. No. 911,526; Feb. 2; Sp. p. 961; Gaz. vol. 139; p. 167.
- Schroeder, W. S., Chicago, Ill., assignor to National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 936,046; Oct. 5; Sp. p. 949; Gaz. vol. 147; p. 142.
- Schroen, O., Naples, Italy. Treating tomatoes. No. 942,287; Dec. 7; Sp. p. 558; Gaz. vol. 149; p. 88.
- Schroer, W., Dählerbrück, Germany. Conveyor-spiral. No. 915,702; Mar. 16; Sp. p. 4233; Gaz. vol. 140; p. 729.
- Schroeter, C., assignor of one-third to J. F. Hill, Chicago, Ill. Coke-oven. No. 922,201; May 18; Sp. p. 4338; Gaz. vol. 142; p. 755.
- Schroetter, O. F., von Kruppamühle, Germany. Explosive. No. 934,020; Sept. 14; Sp. p. 2140; Gaz. vol. 146; p. 354.
- Schrör, A., Bremen, Germany. Boiler-scale-removing apparatus. No. 909,235; Jan. 12; Sp. p. 1649; Gaz. vol. 138; p. 297.
- Schroyer, C. A., Oak Park, Ill. Car-coupling. No. 926,295; June 29; Sp. p. 6719; Gaz. vol. 143; p. 1185.
- Schroyer, H. H., Chicago, Ill. Curtain for car-vestibule diaphragms. No. 924,004; June 8; Sp. p. 1990; Gaz. vol. 143; p. 330.
- Schrunner, N. W., San Diego, Cal. Combined table and desk. No. 943,794; Dec. 21; Sp. p. 3789; Gaz. vol. 149; p. 660.
- Schtscherbakoff, T., Moscow, Russia. Utilizing heat of combustion and steam-power in prime movers. No. 925,845; June 22; Sp. p. 5787; Gaz. vol. 143; p. 1002.
- Schubert, F., Sellersville, Pa. Pressure-gage. No. 920,668; May 4; Sp. p. 1179; Gaz. vol. 142; p. 189.
- Schubert, O., assignor to J. H. Winterbotham & Sons, Chicago, Ill. Manufacturing barrels. No. 929,715; Aug. 3; Sp. p. 159; Gaz. vol. 145; p. 28.
- Schubert & Salzer Maschinenfabrik Aktiengesellschaft, Firm of. (See Saurer, A., assignor.)
- Schubel, R., Littell, Wash. Swaging-tool. No. 933,588; Sept. 7; Sp. p. 1277; Gaz. vol. 146; p. 189.
- Schuermann, A. (See Mueller and Schuermann.)
- Schuermann, A. C. (See Mueller and Schuermann.)
- Schuermann, A. C., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Reversible index for cocks. No. 910,320; Jan. 19; Sp. p. 3863; Gaz. vol. 138; p. 695.
- Schuermann, A. C., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Compression stop and waste. No. 927,683; July 13; Sp. p. 2043; Gaz. vol. 144; p. 355.
- Schuermann, A. C., assignor to H. Mueller Mfg. Company, Decatur, Ill. Pipe connection. No. 934,983; Sept. 21; Sp. p. 4039; Gaz. vol. 146; p. 701.
- Schuermann, J. B. (See Witte and Schuermann.)
- Schuette, E., Manitowoc, Wis. Chart for recording-compasses. No. 939,867; Nov. 9; Sp. p. 3114; Gaz. vol. 148; p. 514.
- Schuette, E., and N. Dedrick, Manitowoc, Wis.; said Dedrick assignor to said Schuette. Apparatus for recording-compasses. No. 939,866; Nov. 9; Sp. p. 3110; Gaz. vol. 148; p. 513.
- Schuetz, F. A., Chicago, Ill., assignor to Adams & Westlake Company. Lamp-burner. No. 923,301; June 1; Sp. p. 448; Gaz. vol. 143; p. 63.
- Schuhmann, G., Reading, Pa. Screw-coupling. No. 929,027; July 27; Sp. p. 4811; Gaz. vol. 144; p. 860.
- Schuldt, C. F. A., and F. H. Nicholson, St. Paul, Minn. Mercury-contact relay. No. 937,098; Oct. 19; Sp. p. 3104; Gaz. vol. 147; p. 546.



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- Schüle, R., Frankfort-on-the-Main, Germany, assignor to Cassella Color Company, New York, N. Y. Red cotton dye and making same. No. 912,182; Feb. 9; Sp. p. 2351; Gaz. vol. 139; p. 406.
- Schuler, C. A. (See Burke, C. A., assignor.)
- Schuler, P. J., Plymouth, Pa. Door hanger and track. No. 915,386; Mar. 16; Sp. p. 3572; Gaz. vol. 140 p. 622.
- Schuller, A. A. (See Young, L. H. and A., assignors.)
- Schulman, J. (See Schulman, L. and J.)
- Schulman, L. and J., assignors to American Firecracker Mfg. Company, New York, N. Y. Fuse. No. 922,343; May 18; Sp. p. 4600; Gaz. vol. 142; p. 799.
- Schulte, E., Hamm, Westphalia, Germany, assignor to United Coke and Gas Company. Fluid-pressure regulator. No. 937,721; Oct. 19; Sp. p. 4422; Gaz. vol. 147; p. 750.
- Schulte, W. H., Trenton, N. J. Burner for blast-flames. No. 929,252; July 27; Sp. p. 5268; Gaz. vol. 144; p. 934.
- Schultis, C. F., Lakewood, assignor to Cleveland Collet and Machine Company, Cleveland, Ohio. Drill-chuck. No. 939,102; Nov. 2; Sp. p. 1381; Gaz. vol. 148; p. 225.
- Schultz, A., Dayton, Ohio. Pulp-feed regulator. No. 943,165; Dec. 14; Sp. p. 2444; Gaz. vol. 149; p. 415.
- Schultz, C. M., Lynn, Mass., assignor to General Electric Company. Bucket-wheel. No. 924,841; June 15; Sp. p. 3753; Gaz. vol. 143; p. 642.
- Schultz, D. C., assignor to Morgan Engineering Company, Alliance, Ohio. Mechanical brake. No. 912,325; Feb. 16; Sp. p. 2688; Gaz. vol. 139; p. 492.
- Schultz, E. E., Chenoa, Ill. Can-filler. No. 921,898; May 18; Sp. p. 3723; Gaz. vol. 142; p. 656.
- Schultz, H. O., assignor of one-half to A. J. Huff, Canton, Ohio. Whiffletree. No. 940,368; Nov. 16; Sp. p. 4276; Gaz. vol. 148; p. 718.
- Schultz, W. H., Cameron, Idaho. Draft-equalizer. No. 937,185; Oct. 19; Sp. p. 3300; Gaz. vol. 147; p. 574.
- Schultz, W. L., New York, N. Y. Non-refillable bottle. No. 921,009; May 11; Sp. p. 1859; Gaz. vol. 142; p. 329.
- Schultze, A., Rathenow-Albertsheim, Germany. Shovel. No. 928,283; July 20; Sp. p. 3320; Gaz. vol. 144; p. 586.
- Schultze, C. W., assignor of one-half to H. K. Perry, Buffalo, N. Y. Purifying water. No. 914,887; Mar. 9; Sp. p. 2591; Gaz. vol. 140; p. 432.
- Schultze, C. W., assignor to Clarine Company, Buffalo, N. Y. Compound for purifying water. No. 935,695; Oct. 5; Sp. p. 158; Gaz. vol. 147; p. 25.
- Schultze, C. W., assignor to Clarine Company, Buffalo, N. Y. Filtering apparatus. No. 938,279; Oct. 26; Sp. p. 5600; Gaz. vol. 147; p. 958.
- Schultze, H., Griesheim, assignor to Chemische Fabrik Griesheim Electron, Frankfort-on-the-Main, Germany. Manufacture of chlorine compound of lime. No. 934,467; Sept. 21; Sp. p. 3021; Gaz. vol. 146; p. 527.
- Schultze, M. R., Southampton, N. Y. Combination trunk and type-writer desk. No. 917,161; Apr. 6; Sp. p. 409; Gaz. vol. 141; p. 72.
- Schulz, C. F., Chicago, Ill. Broom-bridle. No. 943,319; Dec. 14; Sp. p. 2764; Gaz. vol. 149; p. 466.
- Schulz, E. H., Fort Wadsworth, N. Y. Blast and pressure meter. No. 931,348; Aug. 17; Sp. p. 3659; Gaz. vol. 145; p. 631.
- Schulz, F., Chicago, Ill. Chair attachment. No. 938,172; Oct. 26; Sp. p. 5392; Gaz. vol. 147; p. 921.
- Schulz, G. (See Foster and Schulz.)
- Schulz, G., New York, N. Y. Reversing apparatus. No. 931,501; Aug. 17; Sp. p. 3958; Gaz. vol. 145; p. 682.
- Schulz, G., New York, N. Y. Rotary engine. No. 939,751; Nov. 9; Sp. p. 2877; Gaz. vol. 148; p. 474.
- Schulz, L. (See Reuther and Schulz.)
- Schulz, R., Berlin, Germany. Regulation of turbines. No. 919,253; Apr. 20; Sp. p. 4899; Gaz. vol. 141; p. 822.
- Schulz, W. (See Martens and Schulz.)
- Schulz, W., Houston, Tex. Flexible metallic hose. No. 931,091; Aug. 17; Sp. p. 3092; Gaz. vol. 145; p. 542.
- Schulze, J. H. F., New York, N. Y. Railway-track construction. No. 927,175; July 6; Sp. p. 988; Gaz. vol. 144; p. 160.
- Schulze, O., Strassburg, Germany. Measuring instrument having an electromagnetic brake. No. 937,099; Oct. 19; Sp. p. 3106; Gaz. vol. 147; p. 546.
- Schum, A., Mariah Hill, Ind. Pneumatic tool. No. 934,096; Sept. 14; Sp. p. 2298; Gaz. vol. 146; p. 377.
- Schumacher, A. A., Lisbon, N. D. Railway-switch. No. 938,610; Nov. 2; Sp. p. 379; Gaz. vol. 148; p. 56.
- Schumacher, C. R. (See Klein, J. J., assignor.)
- Schumacher, E., Buffalo, N. Y. Gas-burner. No. 914,193; Mar. 2; Sp. p. 1156; Gaz. vol. 140; p. 180.
- Schumacher, F., Philadelphia, Pa. Baker's peel. No. 920,183; May 4; Sp. p. 189; Gaz. vol. 142; p. 30.
- Schumacher, J. E., York, England. Brake for railway-vehicles. No. 916,614; Mar. 30; Sp. p. 6024; Gaz. vol. 140; p. 1079.
- Schumacher, W., Osnabrück, Germany. Manufacture of agglomerated bodies from blast-furnace dust. No. 933,269; Sept. 7; Sp. p. 553; Gaz. vol. 146; p. 84.
- Schumacher, W., Osnabrück, Germany. Manufacture of coherent bodies from blast-furnace dust. No. 933,270; Sept. 7; Sp. p. 554; Gaz. vol. 146; p. 85.
- Schumaker, F. X., Fort Scott, Kans. Harness. No. 908,891; Jan. 5; Sp. p. 950; Gaz. vol. 138; p. 151.
- Schuman Company. (See Schuman, J. B., assignor.)
- Schuman, J. B., *et al.* (See Schuman, J. B., assignor.)
- Schuman, J. B., Columbia City, assignor to J. B. Schuman and J. K. Sharpe, Jr., Indianapolis, Ind., and T. King, Quincy, Mass. Shock-loader. No. 910,423; Jan. 19; Sp. p. 4073; Gaz. vol. 138; p. 729.
- Schuman, J. B., assignor to Schuman Company, Indianapolis, Ind. Crop-handling machine. No. 913,438; Feb. 23; Sp. p. 4966; Gaz. vol. 139; p. 889.
- Schuman, J. B., assignor to Schuman Company, Indianapolis, Ind. Shock-loader. No. 938,611; Nov. 2; Sp. p. 381; Gaz. vol. 148; p. 57.
- Schuman, J. B., assignor to Schuman Company, Indianapolis, Ind. Shock-loader. No. 939,335; Nov. 9; Sp. p. 1948; Gaz. vol. 148; p. 333.
- Schuman, J. B., assignor to Schuman Company, Indianapolis, Ind. Shock-loader. No. 943,473; Dec. 14; Sp. p. 3091; Gaz. vol. 149; p. 520.
- Schuman, J. B., assignor to J. B. Schuman and J. K. Sharpe, Jr., Indianapolis, Ind., and T. King, Quincy, Mass. Shock-handling attachment for crop-treating machines. No. 916,204; Mar. 23; Sp. p. 5180; Gaz. vol. 140; p. 918.
- Schuman, J. B., Columbia City, assignor to Schuman Company, Indianapolis, Ind. Shock-loader. No. 938,438; Oct. 26; Sp. p. 5974; Gaz. vol. 147; p. 1012.
- Schuman, W. F., Winthrop, Iowa. Milk and cream can. No. 919,961; Apr. 27; Sp. p. 6414; Gaz. vol. 141; p. 1096.
- Schumann, E., and A. Prepejchal, assignors to J. Saltzman, Chicago, Ill. Garment-pressing machine. No. 927,081; July 6; Sp. p. 810; Gaz. vol. 144; p. 129.
- Schumann, F., assignor of one-half to F. Shuman, Philadelphia, Pa. Railway-tie. No. 940,740; Nov. 23; Sp. p. 5092; Gaz. vol. 148; p. 868.
- Schumann, O., Philadelphia, Pa. Street-sweeper. No. 910,321; Jan. 19; Sp. p. 3866; Gaz. vol. 138; p. 696.
- Schumann, O., Dresden, Germany. Device for straining waste water. No. 914,758; Mar. 9; Sp. p. 2332; Gaz. vol. 140; p. 391.
- Schupp, E., Los Angeles, Cal. Indicator for cars. No. 930,318; Aug. 3; Sp. p. 1399; Gaz. vol. 145; p. 232.
- Schupp, H. (See Osborne and Schupp.)
- Schuppener, F. H., Stitzer, Wis. Individual room heater and ventilator. No. 908,614; Jan. 5; Sp. p. 387; Gaz. vol. 138; p. 62.
- Schureman, F. A., New York, N. Y. Storm-door. No. 931,502; Aug. 17; Sp. p. 3960; Gaz. vol. 145; p. 683.
- Schureman, J. L., assignor to J. L. Schureman Company, Chicago, Ill. Electrical starting device. No. 928,547; July 20; Sp. p. 3832; Gaz. vol. 144; p. 672.
- Schuring, H. (See Schuring, J. and H.)
- Schüring, J., Jr., Zeitz, Germany. Knee-joint dry press. No. 919,781; Apr. 27; Sp. p. 6031; Gaz. vol. 141; p. 1037.
- Schüring, J. and H., Cherrydale, Va. Saw-oiling device. No. 927,756; July 13; Sp. p. 2191; Gaz. vol. 144; p. 379.
- Schurmann, W. A., Chicago, Ill. Egg carton or carrier. No. 918,601; Apr. 20; Sp. p. 3345; Gaz. vol. 141; p. 608.
- Schurz, F. C. (See Gorton, C. E., assignor.)
- Schushey, J., Pittsburg, Pa. Rail-joint. No. 941,279; Nov. 23; Sp. p. 6262; Gaz. vol. 148; p. 1048.
- Schuster, C., Bellevue, Pa. Switch-handle. No. 943,124; Dec. 14; Sp. p. 2370; Gaz. vol. 149; p. 402.
- Schuster, F. A., Pittsburg, Pa. Gate-opener. No. 922,963; May 25; Sp. p. 5916; Gaz. vol. 142; p. 1031.
- Schuster, F. J., Theresa, Wis. Building block and wall. No. 941,656; Nov. 30; Sp. p. 7058; Gaz. vol. 148; p. 1195.
- Schuster, G. W. (See Keene and Schuster.)
- Schuster, H., Columbus, Nebr. Apparatus for whitening and aging flour. No. 918,379; Apr. 13; Sp. p. 2874; Gaz. vol. 141; p. 508.
- Schuster, P., Hötensleben near Magdeburg, Germany. Device for preventing dust detonations. No. 940,075; Nov. 16; Sp. p. 3617; Gaz. vol. 148; p. 617.
- Schuten, H. (See Haskill, W. J., assignor.)
- Schutt, D. A., Peru, Ind. Grain-drill. No. 917,162; Apr. 6; Sp. p. 410; Gaz. vol. 141; p. 72.
- Schütt, L., Saarbrücken, Germany. Coal-cutting machine. No. 931,017; Aug. 10; Sp. p. 2909; Gaz. vol. 145; p. 489.
- Schutte, A. E., Boston, Mass. Street pavement or roadway. No. 912,898; Feb. 16; Sp. p. 3874; Gaz. vol. 139; p. 683.
- Schütte, H., Wheeling, W. Va. Hanger for trolley-wires. No. 909,691; Jan. 12; Sp. p. 2535; Gaz. vol. 138; p. 450.
- Schutte, J. H., North Tonawanda, N. Y. Folding umbrella. No. 920,400; May 4; Sp. p. 630; Gaz. vol. 142; p. 101.
- Schutte and Koerting Company. (See Knauf, P. W., assignor.)
- Schutte & Koerting Company. (See Koerting, E., assignor.)
- Schutte and Koerting Company. (See Schutte, L., assignor.)
- Schutte, L., assignor to Schutte and Koerting Company, Philadelphia, Pa. Valve. No. 931,228; Aug. 17; Sp. p. 3396; Gaz. vol. 145; p. 589.

*Alphabetical list of patentees—Continued.*

- Schuttler, C. (See Conrad, M., assignor.)
- Schütz, H. von, Wetzlar, Germany. Detinning tin-plate by means of chlorin. No. 940,898; Nov. 23; Sp. p. 5431; Gaz. vol. 148; p. 920.
- Schutz, H. M., Milan, Italy. Automatic advertising or display apparatus. No. 911,618; Feb. 9; Sp. p. 1178; Gaz. vol. 139; p. 223.
- Schütze, M., Berlin, Germany. Photographic enlarging apparatus. No. 910,322; Jan. 19; Sp. p. 3868; Gaz. vol. 138; p. 696.
- Schützing, K. T., Hamburg, Germany. Beer-cooler. No. 931,891; Aug. 24; Sp. p. 4792; Gaz. vol. 145; p. 828.
- Schuyler, C. J., assignor to Bower & Kaufmann, Philadelphia, Pa. Openwork and tucking device for circular-knitting machines. No. 915,627; Mar. 16; Sp. p. 4066; Gaz. vol. 140; p. 702.
- Schuyler, D., Bridgeport, Conn., and H. Laughlin, Jr., assignors to Perfect Sliding Door Company, Los Angeles, Cal. Metallic wall-pocket structure for sliding doors. No. 929,633; July 27; Sp. p. 6053; Gaz. vol. 144; p. 1059.
- Schuyler, F. B., Berkeley, Cal. Bread-toaster. No. 944,283; Dec. 28; Sp. p. 4823; Gaz. vol. 149; p. 851.
- Schuyler, W. H., Traverse City, Mich. Space-band cleaner. No. 914,522; Mar. 9; Sp. p. 1831; Gaz. vol. 140; p. 312.
- Schwab, E., New York, N. Y. Burglar-alarm. No. 923,712; June 1; Sp. p. 1323; Gaz. vol. 143; p. 205.
- Schwab, M. C., Chicago, Ill., assignor to Gravity Conveyor Company. Deflector for gravity-conveyers. No. 927,176; July 6; Sp. p. 989; Gaz. vol. 144; p. 160.
- Schwabe, G., Bielitz, Austria-Hungary. Shuttle-operating device. No. 928,802; July 20; Sp. p. 4345; Gaz. vol. 144; p. 757.
- Schwagermann, W., Yonkers, N. Y., assignor to Ward Leonard Electric Co. Electric controlling apparatus. No. 943,166; Dec. 14; Sp. p. 2445; Gaz. vol. 149; p. 415.
- Schwaiger, K. (See Moser and Schwaiger.)
- Schwalm, W. E., Parnassus, Pa. Attachment for printing-presses. No. 913,984; Mar. 2; Sp. p. 704; Gaz. vol. 140; p. 110.
- Schwander, P. W., assignor to one-third to J. J. Pastoriza, Houston, Tex. Self-indexing loose-leaf ledger. No. 940,560; Nov. 16; Sp. p. 4701; Gaz. vol. 148; p. 783.
- Schwanenberg, E., and A. Rinne, Hanover, Germany. Hardening calcareous artificial-stone substances by means of carbonic acid. No. 911,547; Feb. 2; Sp. p. 993; Gaz. vol. 139; p. 173.
- Schwaninger, V., Oggersheim, near Mannheim, Germany. Uniformly covering with lead hollow bodies. No. 914,459; Mar. 9; Sp. p. 1701; Gaz. vol. 140; p. 291.
- Schwaninger, V., Oggersheim, near Mannheim, Germany. Apparatus for raising liquids. No. 923,587; June 1; Sp. p. 1068; Gaz. vol. 143; p. 162.
- Schwarz, E. (See Wessel, Z., assignor.)
- Schwartz, C., Strohhausen, Germany. Corner connection for frames and the like. No. 923,713; June 1; Sp. p. 1324; Gaz. vol. 143; p. 205.
- Schwartz, A., Boston, Mass. Machine for applying duck to innersoles. No. 919,648; Apr. 27; Sp. p. 5766; Gaz. vol. 141; p. 992.
- Schwartz, B. L. (See Menz and Schwartz.)
- Schwartz, C. L., assignor to Commonwealth Steel Company, St. Louis, Mo. Railway-car. No. 935,696; Oct. 5; Sp. p. 159; Gaz. vol. 147; p. 25.
- Schwartz, E. H., assignor to Kroeschell Brothers Company, Chicago, Ill. Gas-generating crucible-furnace. No. 910,091; Jan. 19; Sp. p. 3339; Gaz. vol. 138; p. 614.
- Schwartz, E. H., assignor to Kroeschell Brothers Company, Chicago, Ill. Crucible-furnace. No. 911,271; Feb. 2; Sp. p. 495; Gaz. vol. 139; p. 85.
- Schwartz, F., and L. Kleinmann, New York, N. Y. Incandescent-lamp cluster. No. 918,202; Apr. 13; Sp. p. 2525; Gaz. vol. 141; p. 450.
- Schwartz, H., Nashville, Tenn. Ship-cleaner. No. 938,794; Nov. 2; Sp. p. 734; Gaz. vol. 148; p. 119.
- Schwartz, H. C., *et al.* (See Schirra, J., assignor.)
- Schwartz, H. M., assignor to Florence Manufacturing Company, Northampton, Mass. Brush-machine. No. 924,194; June 8; Sp. p. 2398; Gaz. vol. 143; p. 393.
- Schwartz, H. M., assignor to Florence Manufacturing Company, Northampton, Mass. Brush-making machine. No. 928,548; July 20; Sp. p. 3842; Gaz. vol. 144; p. 673.
- Schwartz, H. M., assignor to Florence Manufacturing Company, Northampton, Mass. Brush-making machine. No. 928,549; July 20; Sp. p. 3844; Gaz. vol. 144; p. 673.
- Schwartz, H. M., assignor to Florence Manufacturing Company, Northampton, Mass. Brush. No. 928,550; July 20; Sp. p. 3845; Gaz. vol. 144; p. 674.
- Schwartz, J. C. (See Lambert, E. A., assignor.)
- Schwartz, L., Memphis, Tenn. Envelop. No. 933,589; Sept. 7; Sp. p. 1278; Gaz. vol. 146; p. 190.
- Schwartz, M. (See Rodgers and Schwartz.)
- Schwartz, M., assignor to American Cutlery Company, Chicago, Ill. Weighing-scale. No. 918,777; Apr. 20; Sp. p. 3770; Gaz. vol. 141; p. 669.
- Schwartz, R. H., Champaign, Ill. Leather-edging apparatus. No. 917,366; Apr. 6; Sp. p. 832; Gaz. vol. 141; p. 142.
- Senwartz, T. C. (See Wolcott and Schwartz.)
- Schwartz, W., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fuse-adjusting machine. No. 932,181; Aug. 24; Sp. p. 5429; Gaz. vol. 145; p. 926.
- Schwartz, W., Bredene, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fuse-adjusting machine. No. 943,474; Dec. 14; Sp. p. 3093; Gaz. vol. 149; p. 521.
- Schwartz, W., and P. Koener, Essen-Rüttenscheid, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Time-fuse. No. 911,845; Feb. 9; Sp. p. 1602; Gaz. vol. 139; p. 297.
- Schwartz, W., Bredene-on-the-Ruhr, and U. Wilck, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fuse-adjusting device. No. 932,182; Aug. 24; Sp. p. 5433; Gaz. vol. 145; p. 926.
- Schwartz, W., Bredene-on-the-Ruhr, and U. Wilck, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fuse-adjusting device. No. 944,466; Dec. 28; Sp. p. 5228; Gaz. vol. 149; p. 915.
- Schwartz, Y., Hanover, Germany. Photographic paper. No. 916,616; Mar. 30; Sp. p. 6029; Gaz. vol. 140; p. 1080.
- Schwarz, C. L., Philadelphia, Pa. Tire. No. 927,006; July 6; Sp. p. 624; Gaz. vol. 144; p. 102.
- Schwarz, N., Posen, Germany. Switch for tramways. No. 942,288; Dec. 7; Sp. p. 560; Gaz. vol. 149; p. 88.
- Schwarz, W., New York, N. Y. Music-leaf turner. No. 916,615; Mar. 30; Sp. p. 6027; Gaz. vol. 140; p. 1080.
- Schwarzer, I. M., New Rochelle, N. Y. Woman's hair-retaining comb. No. 918,203; Apr. 13; Sp. p. 2528; Gaz. vol. 141; p. 451.
- Schwarzlose, A. W., Berlin, Germany. Automatic firearm with forward-sliding barrel. No. 918,380; Apr. 13; Sp. p. 2875; Gaz. vol. 141; p. 508.
- Schwarzlose, A. W., Berlin, Germany. Lock mechanism for automatic firearms. No. 932,183; Aug. 24; Sp. p. 5436; Gaz. vol. 145; p. 926.
- Schwebel, G. A. and J. F., Lancaster, Pa. Switch-operating device. No. 927,684; July 13; Sp. p. 2047; Gaz. vol. 144; p. 356.
- Schwebel, J. F. (See Schwebel, G. A. and J. F.)
- Schwebel, W. C. (See Polnisch, P., assignor.)
- Schweich, J. H., St. Louis, Mo. Manifolding device. No. 926,212; June 29; Sp. p. 6562; Gaz. vol. 143; p. 1159.
- Schweich, J. H., St. Louis, Mo. Manifolding device. No. 926,213; June 29; Sp. p. 6566; Gaz. vol. 143; p. 1160.
- Schweichler, C. W., Chicago, Ill. Coat-pad. No. 929,028; July 27; Sp. p. 4813; Gaz. vol. 144; p. 860.
- Schweida, J. C., Ogontz, and C. Stapf, Philadelphia, Pa. Toy. No. 911,451; Feb. 2; Sp. p. 814; Gaz. vol. 139; p. 142.
- Schweida, J. C., and W. Kleinheinz, Ogontz, Pa. Sash-lock. No. 913,239; Feb. 23; Sp. p. 4579; Gaz. vol. 139; p. 822.
- Schweimler, R. W., Louisville, Ky. Fire-escape. No. 937,722; Oct. 19; Sp. p. 4424; Gaz. vol. 147; p. 751.
- Schweimler, H. R., assignor to F. A. Mills, New York, N. Y. Clamp. No. 925,660; June 22; Sp. p. 5364; Gaz. vol. 143; p. 940.
- Schweiter, J., Horgen, near Zurich, Switzerland. Yarn-reel for reeling-machines and winding-machines. No. 944,987; Dec. 28; Sp. p. 6359; Gaz. vol. 149; p. 1091.
- Schweitzer, E. O., and A. Herz, Chicago, Ill. Electric switch. No. 923,129; May 25; Sp. p. 6271; Gaz. vol. 142; p. 1084.
- Schweitzer, H. J., Putney, S. D. Snow-fence. No. 942,147; Dec. 7; Sp. p. 266; Gaz. vol. 149; p. 40.
- Schweitzer, H. J., Putney, S. D. Sod and ditch line marker for railway-tracks. No. 943,795; Dec. 21; Sp. p. 3791; Gaz. vol. 149; p. 660.
- Schweitzer, W., and H. H. Labadie, Chicago, Ill. Sample-case having link-connected trays. No. 923,378; June 1; Sp. p. 608; Gaz. vol. 143; p. 89.
- Schweitzer, W. H., Hochheim, Tex. Lace-fastener. No. 913,568; Feb. 23; Sp. p. 5272; Gaz. vol. 139; p. 933.
- Schweizer, C., Boston, Mass. Furnace. No. 915,387; Mar. 16; Sp. p. 3574; Gaz. vol. 140; p. 622.
- Schweizer, C., Boston, Mass. Furnace. No. 921,169; May 11; Sp. p. 2186; Gaz. vol. 142; p. 385.
- Schweizer, W. H., Baltimore, Md. Writing-pen. No. 909,236; Jan. 12; Sp. p. 1650; Gaz. vol. 138; p. 297.
- Schweizer, W. H., Baltimore, Md. Writing-pen. No. 911,336; Feb. 2; Sp. p. 614; Gaz. vol. 139; p. 105.
- Schwenke, A., Klein-Welsheim, near Seligenstadt, Germany. Floor-scraping machine. No. 911,272; Feb. 2; Sp. p. 497; Gaz. vol. 139; p. 85.
- Schwerd, A. H., Jr., Pittsburg, Pa. Column-clamp. No. 938,344; Oct. 26; Sp. p. 5756; Gaz. vol. 147; p. 979.
- Schwerd, F., Frankfurt-on-the-Main, Germany. Device for automatically arresting the feed-motion in grinding-machines. No. 920,669; May 4; Sp. p. 1180; Gaz. vol. 142; p. 189.
- Schwerin, J. M. (See White, J. P., assignor.)
- Schwering, W., Philadelphia, Pa. Nut-lock. No. 918,778; Apr. 20; Sp. p. 3773; Gaz. vol. 141; p. 669.
- Schwickart, P., New York, N. Y. Lens for building-lights. No. 922,964; May 25; Sp. p. 5918; Gaz. vol. 142; p. 1031.
- Schwieder, R., Dresden, Germany. Wringer-roll. No. 931,804; Aug. 24; Sp. p. 4621; Gaz. vol. 145; p. 801.



*Alphabetical list of patentees—Continued.*

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- Schwieger, A., Hanover, Germany. Liquid-strainer. No. 925,517; June 22; Sp. p. 5078; Gaz. vol. 143; p. 894.
- Schwiering, A. E. L. (See Sulser, A. H., assignor.)
- Schwillling, J., Houston, Tex. Scaffold-jack. No. 915,226; Mar. 16; Sp. p. 3256; Gaz. vol. 140; p. 569.
- Schwing, C. T., assignor to L. N. Ley, Canton, Ohio. Extension-bolt. No. 909,462; Jan. 12; Sp. p. 2081; Gaz. vol. 138; p. 370.
- Schwinn, G., Huron, Cal. Locker for hats, &c. No. 930,565; Aug. 10; Sp. p. 1938; Gaz. vol. 145; p. 342.
- Schwyzer, A., Balsthal, assignor to Gesellschaft der Ludw. von Roll'schen Eisenwerke, Gerlafingen, Switzerland. Elevator for beton-mixing machines. No. 915,703; Mar. 16; Sp. p. 4234; Gaz. vol. 140; p. 729.
- Sciple, H. M., Minneapolis, Minn. Vibrator. No. 919,649; Apr. 27; Sp. p. 5773; Gaz. vol. 141; p. 993.
- Sciple, O. O. M., Minneapolis, Minn. Sectional pole. No. 933,854; Sept. 14; Sp. p. 1822; Gaz. vol. 146; p. 301.
- Scism, J. N. (See Ennis, B. F., assignor.)
- Scism, J. N. (See Ennis and Scism.)
- Scism, J. N., Syracuse, N. Y. Outlet-box. No. 920,401; May 4; Sp. p. 631; Gaz. vol. 142; p. 101.
- Scotfield, W. P., Tampa, Fla., assignor of one-fourth to D. C. Gillett, Charleston, S. C., and one-fourth to M. E. Gillett, Tampa, Fla. Car-stanchion. No. 927,288; July 6; Sp. p. 1200; Gaz. vol. 144; p. 197.
- Scoggins, J. C., Wichita, Kans. Drill-vice. No. 927,381; July 6; Sp. p. 1356; Gaz. vol. 144; p. 225.
- Scognamiglio, R. B., New York, N. Y. Corset. No. 913,921; Mar. 2; Sp. p. 543; Gaz. vol. 140; p. 87.
- Scollard, T. F., Warraw, Ind. Steam-engine. No. 912,183; Feb. 9; Sp. p. 2352; Gaz. vol. 139; p. 406.
- Scott, A. C. (See Williams and Scott.)
- Scott, A. H., Philadelphia, Pa. Cabinet for dispensing toilet-paper. No. 930,094; Aug. 3; Sp. p. 994; Gaz. vol. 145; p. 161.
- Scott, A. H., Philadelphia, Pa. Cabinet for dispensing toilet-paper. No. 936,047; Oct. 5; Sp. p. 951; Gaz. vol. 147; p. 142.
- Scott, B. F. and J. A., Jasper, Minn. Weed-eradicating machine. No. 943,475; Dec. 14; Sp. p. 3096; Gaz. vol. 149; p. 521.
- Scott, B. L., Scranton, Pa. Hair-pin. No. 938,715; Nov. 2; Sp. p. 582; Gaz. vol. 148; p. 91.
- Scott, B. R., Cleveland, Ohio. Combined tie-plate and rail-anticrepper. No. 933,123; Sept. 7; Sp. p. 178; Gaz. vol. 146; p. 30.
- Scott, B. R., Cleveland, Ohio. Switch-stand. No. 936,819; Oct. 12; Sp. p. 2538; Gaz. vol. 147; p. 424.
- Scott, B. W., assignor, by mesne assignments, to Detroit Typomarker Company, Detroit, Mich. Automatically-reversible ink-ribbon-feeding mechanism. No. 917,803; Apr. 13; Sp. p. 1682; Gaz. vol. 141; p. 312.
- Scott, B. W., assignor to Arthur Coulton Company, Detroit, Mich. Apparatus for forming capsules. No. 943,608; Dec. 14; Sp. p. 3356; Gaz. vol. 149; p. 567.
- Scott, C. D., Topeka, Kans. Automatic weighing apparatus. No. 921,170; May 11; Sp. p. 2189; Gaz. vol. 142; p. 386.
- Scott, C. H., Minneapolis, Minn. Attachment for grain-cleaning machines. No. 918,095; Apr. 13; Sp. p. 2307; Gaz. vol. 141; p. 414.
- Scott, C. H., Gloucester, England. Compressor or exhaustor for air or other fluids. No. 924,942; June 15; Sp. p. 3956; Gaz. vol. 143; p. 676.
- Scott, D. J., *et al.*, executors. (See Scott, B. F.)
- Scott, D. J., *et al.*, executors. (See Scott, W.)
- Scott, D. W., West Milwaukee, Wis. Washing-machine. No. 933,348; Sept. 7; Sp. p. 709; Gaz. vol. 146; p. 110.
- Scott, E. (See Wilkins, V. P., assignor.)
- Scott, E., Hudson, assignor of one-half to J. K. Hall, Maynard, Mass. Wrapping mechanism. No. 914,815; Mar. 2; Sp. p. 1398; Gaz. vol. 140; p. 217.
- Scott, E. K., Kansas City, Mo. Liquid-dropper. No. 939,556; Nov. 9; Sp. p. 2447; Gaz. vol. 148; p. 406.
- Scott Electrical Company. (See Scott, R., assignor.)
- Scott, F., Orbisonia, assignor of one-half to J. B. Shively, Shippensburg, Pa. Door opening and closing mechanism. No. 925,956; June 22; Sp. p. 6007; Gaz. vol. 143; p. 1037.
- Scott, G. H., assignor of one-half to Morgan Spring Company, Worcester, Mass. Machine for cutting metal rods. No. 936,572; Oct. 12; Sp. p. 2054; Gaz. vol. 147; p. 340.
- Scott, G. N., Chicago, Ill. Adjustable resistance device for the rebound of vehicle-springs. No. 915,227; Mar. 16; Sp. p. 3257; Gaz. vol. 140; p. 569.
- Scott, G. W., Troy, Ohio. Storm-front for vehicles. No. 929,331; July 27; Sp. p. 5493; Gaz. vol. 144; p. 963.
- Scott, G. W., assignor to Star Storm Front Company, Troy, Ohio. Storm-front for vehicles. No. 909,237; Jan. 12; Sp. p. 1652; Gaz. vol. 138; p. 298.
- Scott, H. C., Ritzville, assignor to Harrington Hitch Company, Harrington, Wash. Draft-equalizer. (Reissue.) No. 12,949; Apr. 27; Sp. p. 6759; Gaz. vol. 141; p. 1145.
- Scott, H. E. (See Wright and Scott.)
- Scott, H. L., Providence, R. I. Tester power-gearing. No. 924,693; June 15; Sp. p. 3440; Gaz. vol. 143; p. 592.
- Scott, H. L., Providence, R. I. Tester. No. 940,482; Nov. 16; Sp. p. 4524; Gaz. vol. 148; p. 757.
- Scott, H. S., and M. L. Dilgard, assignors to W. Landis, A. Thomas, and U. S. Shelly, Ashland, Ohio. Concrete-mixing machine. No. 931,657; Aug. 17; Sp. p. 4269; Gaz. vol. 145; p. 729.
- Scott, H. S., and M. L. Dilgard, assignors to C. W. Landis, A. Thomas, and U. S. Shelly, Ashland, Ohio. Machine for making hollow building-blocks. No. 940,741; Nov. 23; Sp. p. 5095; Gaz. vol. 148; p. 869.
- Scott, I., *et al.*, executors. (See Berry, B. F.)
- Scott, I., *et al.*, executors. (See Scott, W.)
- Scott, I., Washington, D. C. Machine for forming butter-pats. No. 916,612; Mar. 30; Sp. p. 6020; Gaz. vol. 140; p. 1079.
- Scott, I. M. (See Flanagan, C. E., assignor.)
- Scott, J., Hammersmith, England. Mechanical land-drainer. No. 943,571; Dec. 14; Sp. p. 3287; Gaz. vol. 149; p. 554.
- Scott, J. A. (See Scott, B. F. and J. A.)
- Scott, J. A., Roosevelt, Okla. Aerial elevator. No. 943,572; Dec. 14; Sp. p. 3289; Gaz. vol. 149; p. 554.
- Scott, J. E., Hillsdale, Ill. Harrow-elever. No. 941,104; Nov. 23; Sp. p. 5865; Gaz. vol. 148; p. 989.
- Scott, J. F., Highland Park, assignor of one-half to A. L. Drum, Chicago, Ill. Wire-support. No. 917,163; Apr. 6; Sp. p. 413; Gaz. vol. 141; p. 72.
- Scott, J. H., Winston Salem, N. C. Collapsible bookcase. No. 920,670; May 4; Sp. p. 1181; Gaz. vol. 142; p. 190.
- Scott, J. H., Jersey City, N. J. Vehicle-wheel. No. 936,820; Oct. 12; Sp. p. 2543; Gaz. vol. 147; p. 425.
- Scott, J. I. (See Drees, M. A., assignor.)
- Scott, J. I. (See Brown, F. J., assignor.)
- Scott, J. M., Racine, Wis. Rail-spike. No. 911,273; Feb. 2; Sp. p. 499; Gaz. vol. 139; p. 85.
- Scott, J. M., Etoile, Ky. Lap-link. No. 916,791; Mar. 30; Sp. p. 6331; Gaz. vol. 140; p. 1131.
- Scott, J. M., Racine, Wis., assignor, by mesne assignments, to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 909,692; Jan. 12; Sp. p. 2538; Gaz. vol. 138; p. 450.
- Scott, J. M., Racine, Wis., assignor, by mesne assignments, to O. R. Barnett, Chicago, Ill. Railway-rail anchor. No. 938,716; Nov. 2; Sp. p. 583; Gaz. vol. 148; p. 91.
- Scott, J. R., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pressure-roll for skiving-machines. No. 916,037; Mar. 23; Sp. p. 4880; Gaz. vol. 140; p. 864.
- Scott, J. S. (See Libby and Scott.)
- Scott, J. W., and J. Tibbals, Granite City, Ill. Massage instrument. No. 917,367; Apr. 6; Sp. p. 833; Gaz. vol. 141; p. 142.
- Scott, J. W. P. (See Farnell and Barron, assignors.)
- Scott-King, T. (See Wadkin and Scott-King.)
- Scott-King, T., Penarth, Cardiff, and W. Norris, Blackpool, England. Power-hammer. No. 942,756; Dec. 7; Sp. p. 1491; Gaz. vol. 149; p. 245.
- Scott, L., Sandwich, Ill. Child's seat. No. 937,650; Oct. 19; Sp. p. 4265; Gaz. vol. 147; p. 728.
- Scott, L. H. (See Fisher, A. J., assignor.)
- Scott, L. K., Farnborough, England. Apparatus for laying guns from behind cover on targets. No. 934,223; Sept. 14; Sp. p. 2549; Gaz. vol. 146; p. 421.
- Scott, L. L., Joplin, Mo. Internal-combustion rock-drill. No. 915,893; Mar. 23; Sp. p. 4604; Gaz. vol. 140; p. 817.
- Scott, L. L., Joplin, Mo. Internal-combustion rock-drill. No. 931,964; Aug. 24; Sp. p. 4980; Gaz. vol. 145; p. 853.
- Scott, L. L., Joplin, Mo. Rock-drilling machine or engine. No. 937,872; Oct. 26; Sp. p. 4742; Gaz. vol. 147; p. 819.
- Scott, L. L., Joplin, Mo. Internal-combustion rock-drill. No. 941,731; Nov. 30; Sp. p. 7223; Gaz. vol. 148; p. 1219.
- Scott, L. L., Joplin, Mo. Internal-combustion rock-drill. No. 941,732; Nov. 30; Sp. p. 7226; Gaz. vol. 148; p. 1219.
- Scott, M. E., Boston, Mass. Roll-up picture. No. 944,153; Dec. 21; Sp. p. 4556; Gaz. vol. 149; p. 782.
- Scott, O., Simcoe, assignor to R. M. Gardiner, Hamilton, Ontario, Canada. Breech-loading safety-gun. No. 911,683; Feb. 9; Sp. p. 1316; Gaz. vol. 139; p. 245.
- Scott, P., Montreal, Quebec, Canada. Roasting-pan. (Reissue.) No. 13,054; Dec. 7; Sp. p. 1792; Gaz. vol. 149; p. 291.
- Scott, R., New York, N. Y. Gate. No. 917,496; Apr. 6; Sp. p. 1055; Gaz. vol. 141; p. 185.

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- Scott, R., Newark, N. J., assignor to Scott Electrical Company. Electrode-support for flaming-arc lamps. No. 929,332; July 27; Sp. p. 5495; Gaz. vol. 144; p. 963.
- Scott, R. W., *et al.* (See Swinglehurst, H., assignor.)
- Scott, R. W., Leeds Point, N. J., assignor of one-half to L. N. D. Williams, Ogontz, Pa. Knitting-machine. No. 919,962; Apr. 27; Sp. p. 6415; Gaz. vol. 141; p. 1096.
- Scott, R. W., Leeds Point, N. J., assignor of one-half to L. N. D. Williams, Ogontz, Pa. Web-holder for rib-knitting machines. No. 925,036; June 15; Sp. p. 4163; Gaz. vol. 143; p. 708.
- Scott, R. W., Leeds Point, N. J., assignor of one-half to L. N. D. Williams, Ogontz, Pa. Ribbed knitted fabric. No. 929,502; July 27; Sp. p. 5788; Gaz. vol. 144; p. 1016.
- Scott, R. W., Leeds Point, N. J., assignor of one-half to L. N. D. Williams, Ogontz, Pa. Ribbed knitted web. No. 932,336; Aug. 24; Sp. p. 5725; Gaz. vol. 145; p. 977.
- Scott, R. W., Leeds Point, N. J., assignor of one-half to L. N. D. Williams, Ogontz, Pa. Latch-needle for knitting-machines. No. 938,795; Nov. 2; Sp. p. 736; Gaz. vol. 148; p. 119.
- Scott, R. W., Leeds Point, N. J., assignor, by mesne assignments, to General Knit Fabric Company, Utica, N. Y. Rib-knitting machine; No. 925,393; June 15; Sp. p. 4817; Gaz. vol. 143; p. 823.
- Scott, R. W., Leeds Point, N. J., assignor to General Knit Fabric Company, Utica, N. Y. Knitted fabric. No. 928,221; July 13; Sp. p. 3136; Gaz. vol. 144; p. 534.
- Scott, R. W., Leeds Point, N. J., assignor to General Knit Fabric Company, Utica, N. Y. Ribbed knitted fabric. No. 928,222; July 13; Sp. p. 3137; Gaz. vol. 144; p. 535.
- Scott, R. W., Leeds Point, N. J., assignor to General Knit Fabric Company, Utica, N. Y. Ribbed knitted fabric. No. 933,673; Sept. 7; Sp. p. 1446; Gaz. vol. 146; p. 218.
- Scott, R. W., Leeds Point, N. J., and H. Swinglehurst, Philadelphia, assignors to said Scott and L. N. D. Williams, Ogontz, Pa. Take-up mechanism for knitting-machines. No. 920,671; May 4; Sp. p. 1182; Gaz. vol. 142; p. 190.
- Scott, S. D., Howeaville, Ky. Plant-protector. No. 912,184; Feb. 9; Sp. p. 2354; Gaz. vol. 139; p. 407.
- Scott, S. J., assignor of one-third to J. A. McDowell, Columbus, Ohio. Railway-track construction. No. 939,336; Nov. 9; Sp. p. 1954; Gaz. vol. 148; p. 333.
- Scott, T., Farmersburg, Ind. Can-locking device. No. 930,566; Aug. 10; Sp. p. 1939; Gaz. vol. 145; p. 342.
- Scott, T. F., Everett, Mass. Vehicle-wheel. No. 938,796; Nov. 2; Sp. p. 738; Gaz. vol. 148; p. 119.
- Scott, T. K., Marietta, Ohio. Combined whip socket and lock. No. 919,963; Apr. 27; Sp. p. 6417; Gaz. vol. 141; p. 1096.
- Scott, T. O., and G. W. Styer, Buffalo, N. Y. Collapsible shipping-crate. No. 915,704; Mar. 16; Sp. p. 4235; Gaz. vol. 140; p. 730.
- Scott, T. W., Morenci, Ariz. Ore-concentrating table. No. 944,917; Dec. 28; Sp. p. 6219; Gaz. vol. 149; p. 1069.
- Scott, U. B., Seattle, Wash. Propeller. No. 934,633; Sept. 21; Sp. p. 3353; Gaz. vol. 146; p. 584.
- Scott, W. (See Berry, B. F., assignor.)
- Scott, W., deceased, Plainfield, N. J.; I. Scott and D. J. Scott, executors. Delivery mechanism. No. 917,901; Apr. 13; Sp. p. 1898; Gaz. vol. 141; p. 345.
- Scott, W., deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Delivery mechanism. No. 919,387; Apr. 27; Sp. p. 5205; Gaz. vol. 141; p. 903.
- Scott, W., Sheridan, Wyo. Changeable-speed gearing. No. 928,705; July 20; Sp. p. 4160; Gaz. vol. 144; p. 725.
- Scott, W., and M. Richard, Glasgow, Scotland. Machine for handing up or rolling dough. No. 925,235; June 15; Sp. p. 4540; Gaz. vol. 143; p. 775.
- Scott, W. A., *et al.* (See Dill, H. E., assignor.)
- Scott, W. A., *et al.* (See Dill and Marsh, assignors.)
- Scott, W. A., *et al.* (See Gregory, G. L., assignor.)
- Scott, W. A., Jr., Pittsburg, Pa. Ventilator. No. 935,864; Oct. 5; Sp. p. 569; Gaz. vol. 147; p. 82.
- Scott, W. D., Bridgeport, Ohio. Ventilating-fan for mines. No. 921,744; May 18; Sp. p. 3394; Gaz. vol. 142; p. 605.
- Scott, W. F., Uniontown, Pa. Spike-puller. No. 942,415; Dec. 7; Sp. p. 798; Gaz. vol. 149; p. 130.
- Scott, W. G., assignor to Chicago Varnish Company, Chicago, Ill. Dipping process for coating articles. No. 931,503; Aug. 17; Sp. p. 3961; Gaz. vol. 145; p. 683.
- Scott, W. H., Maplewood, assignor to D. R. Niederlander, St. Louis, Mo. Combined bolster and draft-rigging. No. 910,151; Jan. 19; Sp. p. 3456; Gaz. vol. 138; p. 633.
- Scott, W. L., assignor to Draper Company, Hopedale, Mass. Filling-fork grid for looms. No. 916,617; Mar. 30; Sp. p. 6030; Gaz. vol. 140; p. 1081.
- Scott, W. M. (See Wyatt, J. H., assignor.)
- Scott, W. M., Philadelphia, Pa. Shunt-contact for electric switches. No. 914,677; Mar. 9; Sp. p. 2162; Gaz. vol. 140; p. 363.
- Scott, W. M., Tooeva, Ga. Railway-frog. No. 944,824; Dec. 28; Sp. p. 6031; Gaz. vol. 149; p. 1037.
- Scott, W. M., Philadelphia, Pa., assignor to Cutter Electrical and Manufacturing Company. Automatic magnetic circuit-breaker. No. 940,647; Nov. 16; Sp. p. 4876; Gaz. vol. 148; p. 811.
- Scott, W. R., assignor to P. Woll, Jr., Philadelphia, Pa. Jacquard connection. No. 921,288; May 11; Sp. p. 2446; Gaz. vol. 142; p. 426.
- Scourfield, J. (See Wright, W., assignor.)
- Scovill, J. E., Chicago, Ill. Electric chime. No. 940,483; Nov. 16; Sp. p. 4527; Gaz. vol. 148; p. 757.
- Scovill Manufacturing Company. (See Coons, A. M., assignor.)
- Scovill Manufacturing Company. (See Goss, E. O., assignor.)
- Scovill Manufacturing Company. (See Goss, J. H., assignor.)
- Scovill Manufacturing Company. (See Hyde, T. R., Jr., assignor.)
- Scovill Manufacturing Company. (See Stevens, F. M., assignor.)
- Scoville, B. P. (See Palmer and Scoville.)
- Scoville, F. F. (See Cole and Scoville.)
- Scribner, C. E. T., assignor to James Hunter Machine Company, North Adams, Mass. Lap-forming mechanism. No. 938,437; Oct. 26; Sp. p. 5969; Gaz. vol. 147; p. 1012.
- Scribner, E. L., Amesbury, Mass., assignor of one-third to R. A. Cousins, Portland, Me. Wrench. No. 936,174; Oct. 5; Sp. p. 1207; Gaz. vol. 147; p. 183.
- Scribner, W., Columbus, Ohio. Electric-power hammer. No. 924,195; June 8; Sp. p. 2409; Gaz. vol. 143; p. 393.
- Srimingour, W., Portsmouth, Va. Crucible-furnace. No. 932,501; Aug. 31; Sp. p. 6076; Gaz. vol. 145; p. 1054.
- Srimingour, W., Portsmouth, assignor to Mirco Fuel-Oil Equipment Company, Norfolk, Va. Hydrocarbon-burner. No. 928,886; July 20; Sp. p. 4518; Gaz. vol. 144; p. 787.
- Srimingour, W., Portsmouth, assignor to Mirco Fuel-Oil Equipment Company, Norfolk, Va. Blank-furnace. No. 933,002; Aug. 31; Sp. p. 7086; Gaz. vol. 145; p. 1219.
- Srimingour, W., Portsmouth, assignor to Mirco Fuel-Oil Equipment Company, Norfolk, Va. Oil-burner. No. 936,743; Oct. 12; Sp. p. 2397; Gaz. vol. 147; p. 399.
- Srimingour, W., Jr., Portsmouth, assignor to Mirco Fuel-Oil Equipment Company, Norfolk, Va. Hydrocarbon-burner. No. 928,337; July 20; Sp. p. 3434; Gaz. vol. 144; p. 605.
- Srimingour, W., Jr., Portsmouth, assignor to Mirco Fuel Oil Equipment Company, Norfolk, Va. Furnace or forge. No. 936,573; Oct. 12; Sp. p. 2055; Gaz. vol. 147; p. 340.
- Scritchfield, A. J., assignor of one-half to W. W. Woodring, Janesville, Wis. Medicine-timer. No. 927,007; July 6; Sp. p. 625; Gaz. vol. 144; p. 102.
- Scritchfield, A. J., assignor of one-half to D. Heenan, Janesville, Wis. Fountain-pen. No. 927,177; July 6; Sp. p. 990; Gaz. vol. 144; p. 160.
- Scroggs, G. M., New Orleans, La. Antiseptic lining for mouthpieces. No. 914,194; Mar. 2; Sp. p. 1161; Gaz. vol. 140; p. 181.
- Scruggs, E. C., Nashville, Tenn. Door-stop. No. 912,326; Feb. 16; Sp. p. 2691; Gaz. vol. 135; p. 492.
- Scruggs, E. C., Nashville, Tenn. Guard-rail clamp. No. 912,626; Feb. 16; Sp. p. 3322; Gaz. vol. 139; p. 595.
- Scruggs, E. C., Nashville, Tenn. Wrench. No. 916,613; Mar. 30; Sp. p. 6023; Gaz. vol. 140; p. 1079.
- Scruggs, E. C., Nashville, Tenn. Pencil-sharpener. No. 935,823; Oct. 5; Sp. p. 480; Gaz. vol. 147; p. 68.
- Scruggs, E. C., Nashville, Tenn. Spring-hinge for doors. No. 938,797; Nov. 2; Sp. p. 739; Gaz. vol. 148; p. 120.
- Scruggs, E. C., Nashville, Tenn. Hose-supporter. No. 940,285; Nov. 16; Sp. p. 4072; Gaz. vol. 148; p. 600.
- Scruggs, J. R., Holladay, Tenn. Vehicle-shaft support. No. 909,693; Jan. 12; Sp. p. 2539; Gaz. vol. 138; p. 450.
- Sudder, G. G. (See Allbright and Sudder.)
- Sudder, I. C., New York, N. Y. Window-lock. No. 944,825; Dec. 28; Sp. p. 6033; Gaz. vol. 149; p. 1038.
- Scullin-Gallagher Iron and Steel Company. (See De la Hunty, T., assignor.)
- Scullin-Gallagher Iron & Steel Company. (See Shallenberger, C. S., assignor.)
- Scullin, T. (See Skov and Scullin.)
- Seaberg, F., Chicago, Ill. Dumping-door-operating mechanism. No. 908,505; Jan. 5; Sp. p. 148; Gaz. vol. 138; p. 27.
- Seaberg, F., assignor, by mesne assignments, to S. Otis, Chicago, Ill. Dump-car. No. 915,800; Mar. 23; Sp. p. 4430; Gaz. vol. 140; p. 786.



*Alphabetical list of patentees—Continued.*

- Seaberg, F., Chicago, Ill., assignor to National Dump Car Company. Dump-door-operating mechanism. No. 937,100; Oct. 19; Sp. p. 3107; Gaz. vol. 147; p. 546.
- Seaberg, F., Chicago, Ill., assignor to National Dump Car Company. Dump-door-operating mechanism. No. 937,101; Oct. 19; Sp. p. 3109; Gaz. vol. 147; p. 546.
- Seaberg, F., Chicago, Ill., assignor to National Dump Car Company. Dump-door-operating mechanism. No. 944,284; Dec. 28; Sp. p. 4825; Gaz. vol. 149; p. 851.
- Seabrook, B. R., Los Angeles, Cal. Differential axle. No. 910,424; Jan. 19; Sp. p. 4074; Gaz. vol. 138; p. 730.
- Seagrave, F. S., Detroit, Mich. Nozzle. No. 930,095; Aug. 3; Sp. p. 996; Gaz. vol. 145; p. 161.
- Seaholm, A., Chicago, Ill. Broom-binder. No. 916,493; Mar. 30; Sp. p. 5773; Gaz. vol. 140; p. 1040.
- Seaman, E. L., Massillon, Ohio. Soldering-tool. No. 924,110; June 8; Sp. p. 2173; Gaz. vol. 143; p. 363.
- Seaman, F. A., *et al.* (See Goodrich, O. A., assignor.)
- Seaman, O. G., Albion, assignor of one-half to G. W. Lyon, Cranesville, Pa. Brake-shoe key. No. 910,425; Jan. 19; Sp. p. 4077; Gaz. vol. 138; p. 730.
- Searchlight Gas Company. (See James and Watson, assignors.)
- Searchlight Horn Company. (See Berner, P. B. T., assignor.)
- Searight, J. R., assignor to Detroit Shear Company, Detroit, Mich. Cutting-shears. No. 936,574; Oct. 12; Sp. p. 2057; Gaz. vol. 147; p. 340.
- Searight, J. R., assignor to Detroit Shear Company, Detroit, Mich. Shears. No. 942,043; Nov. 30; Sp. p. 7860; Gaz. vol. 143; p. 1324.
- Searing, G. E., Towanda, Pa. Device for releasing the caps or covers for glass fruit-jars. No. 936,575; Oct. 12; Sp. p. 2058; Gaz. vol. 147; p. 341.
- Searle, A. H. (See Ruddy, M. J., assignor.)
- Searle, E. H., Philadelphia, Pa., assignor of three-fourths to W. D. Condit, Des Moines, Iowa. Gun. No. 936,369; Oct. 12; Sp. p. 1605; Gaz. vol. 147; p. 273.
- Searle, F., assignor to Coes Wrench Company, Worcester, Mass. Composite stock for machine-knives and making the same. No. 925,661; June 22; Sp. p. 5366; Gaz. vol. 143; p. 940.
- Searle, G. S., Rochester, N. Y. Molding apparatus. No. 918,779; Apr. 20; Sp. p. 3774; Gaz. vol. 141; p. 669.
- Searle, G. S., Rochester, N. Y. Shaft-coupling. No. 923,714; June 1; Sp. p. 1324; Gaz. vol. 143; p. 205.
- Searles, C. F. (See Stump, I. E., assignor.)
- Sears, A., deceased, Worcester, Mass.; A. F. Sears, administrator. Mechanical movement. No. 921,629; May 11; Sp. p. 3159; Gaz. vol. 142; p. 540.
- Sears, A. F., administrator. (See Sears, A.)
- Sears, G. W., Ansonia, Conn. Braiding-machine. No. 920,189; May 4; Sp. p. 191; Gaz. vol. 142; p. 30.
- Sears, H. A., Portland, Oreg. Bedstead. No. 912,036; Feb. 9; Sp. p. 2071; Gaz. vol. 139; p. 360.
- Sears Roebuck & Company. (See Krotz, A. S., assignor.)
- Sears, W., Newman, N. Y. Mail-catcher. No. 910,963; Jan. 26; Sp. p. 5155; Gaz. vol. 138; p. 930.
- Sears, W. T., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Boring-machine. No. 933,124; Sept. 7; Sp. p. 182; Gaz. vol. 146; p. 30.
- Searway, A., Buffalo Creek, assignor to Searway Soundless Patent Tie Company, Denver, Colo. Railway-tie. No. 909,031; Jan. 5; Sp. p. 1223; Gaz. vol. 138; p. 196.
- Searway Soundless Patent Tie Company. (See Searway, A., assignor.)
- Seaton, B. C., Detroit, Mich. Wheel. No. 912,627; Feb. 16; Sp. p. 3323; Gaz. vol. 139; p. 595.
- Seaton, B. C., Detroit, Mich. Wheel. No. 922,344; May 18; Sp. p. 4602; Gaz. vol. 142; p. 800.
- Seaton, S. B., and R. G. Travis, assignors to International Tag Company, Chicago, Ill. Printing-press. No. 930,497; Aug. 10; Sp. p. 1753; Gaz. vol. 145; p. 316.
- Seaver, J. M., Boston, Mass. Separator. No. 940,076; Nov. 16; Sp. p. 3617; Gaz. vol. 148; p. 617.
- Seaver, J. W., Cleveland Heights, Ohio, assignor of one-half to Garrett-Cromwell Engineering Company. Operating mechanism for furnace-valves. No. 928,403; July 20; Sp. p. 3549; Gaz. vol. 144; p. 627.
- Seay, C. A., *et al.* (See Pitts, E. L., assignor.)
- Seay, J. M., assignor of one-half to E. J. List, Havana, Ill. Gate. No. 923,715; June 1; Sp. p. 1326; Gaz. vol. 143; p. 205.
- Seay, W. W., San Francisco, Cal. Refrigeration. No. 925,039; June 15; Sp. p. 4169; Gaz. vol. 143; p. 709.
- Seay, W. W., San Francisco, Cal. Refrigeration. No. 926,080; June 22; Sp. p. 6264; Gaz. vol. 143; p. 1079.
- Seay, W. W., San Francisco, Cal. Refrigeration apparatus. No. 941,733; Nov. 30; Sp. p. 7229; Gaz. vol. 148; p. 1219.
- Seay, W. W., San Francisco, Cal. Refrigeration. No. 941,734; Nov. 30; Sp. p. 7231; Gaz. vol. 148; p. 1220.
- Seblin, J. T. (See Fields and Seblin.)
- Sebre, W. T., assignor of one-sixth to J. F. Jett, one-sixth to L. Thoma, one-sixth to D. M. Bridges, and one-sixth to J. Jett, Carrollton, Ky. Railway mail catcher and deliverer. No. 939,557; Nov. 9; Sp. p. 2449; Gaz. vol. 143; p. 406.
- Schrell, J. E., *et al.* (See Coleman, L. A., assignor.)
- Seburn, H. T., Indianapolis, Ind. Friction-wheel for stacker turn-tables. No. 923,204; June 1; Sp. p. 130; Gaz. vol. 143; p. 29.
- Sechrist, W. F., Reedsville, Pa. Cue-tip holder. No. 929,029; July 27; Sp. p. 4814; Gaz. vol. 144; p. 861.
- Seckendorff, H. (See Erdbrügger, G., assignor.)
- Seckinger, W. G., Philadelphia, Pa. Game device. No. 917,164; Apr. 6; Sp. p. 415; Gaz. vol. 141; p. 72.
- Secor, J. B., Derby, Conn. Type-writing machine. No. 938,439; Oct. 26; Sp. p. 5975; Gaz. vol. 147; p. 1013.
- Sectional Grain Door Company. (See Reed, F. M., assignor.)
- Security Savings and Trust Company. (See Hall, E. L., assignor.)
- Seddon, C. R. (See Nuttall and Seddon.)
- Seddon, C. W., Proctor, Minn., assignor of one-half to J. E. Chisholm, Oelwein, Iowa. Means for introducing feed-water into steam-bollers. No. 929,716; Aug. 3; Sp. p. 161; Gaz. vol. 145; p. 29.
- Seddon, F. E., Hoboken, and W. H. Douglas, Belleville, N. J. Power-transmission mechanism. No. 917,968; Apr. 13; Sp. p. 2032; Gaz. vol. 141; p. 369.
- Sedell, C. F., Sutherland, Iowa. Ditching-plow. No. 943,897; Dec. 21; Sp. p. 4008; Gaz. vol. 149; p. 695.
- Seder, L. (See Paisner, D. L., assignor.)
- Sedgley, A. M. (See Sedgley, H. T. and A. M.)
- Sedgley, H. T. and A. M., Dimond, Cal. Centrifugal pulp filter and strainer. No. 943,476; Dec. 14; Sp. p. 3099; Gaz. vol. 149; p. 522.
- Sedgwick, H. A., New York, N. Y. Salt and pepper box. No. 917,804; Apr. 13; Sp. p. 1688; Gaz. vol. 141; p. 313.
- Sedgwick, T. E. (See Little, A. R., assignor.)
- Sedlacek, W., Ord, Nebr. Breast-strap snap. No. 942,289; Dec. 7; Sp. p. 560; Gaz. vol. 149; p. 88.
- See, B. (See Duncon and See.)
- Seeburger, C. D., Yonkers, N. Y. Conveyer. No. 917,902; Apr. 13; Sp. p. 1904; Gaz. vol. 141; p. 345.
- Seeburger, C. D., Yonkers, N. Y. Conveyer. No. 927,685; July 13; Sp. p. 2048; Gaz. vol. 144; p. 356.
- Seede, J. A., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 927,178; July 6; Sp. p. 991; Gaz. vol. 144; p. 161.
- Seefeldt, W. F., *et al.* (See Wallace, R. H., assignor.)
- Seegers, W., Sumner, Iowa. Carrier. No. 914,607; Mar. 9; Sp. p. 1999; Gaz. vol. 140; p. 341.
- Seegmiller, C. H., assignor to Chicago Folding Box Company, Chicago, Ill. Folding box. No. 935,930; Oct. 5; Sp. p. 707; Gaz. vol. 147; p. 104.
- Seehausen, O. J., Chicago, Ill. Hydrocarbon inverted-mantle lamp. No. 912,185; Feb. 9; Sp. p. 2356; Gaz. vol. 139; p. 407.
- Seehausen, O. J., Chicago, Ill. Generator for hydrocarbon lighting systems. No. 930,891; Aug. 10; Sp. p. 2619; Gaz. vol. 145; p. 448.
- Seeley, A. M., New York, N. Y. Record-holder. No. 921,289; May 11; Sp. p. 2447; Gaz. vol. 142; p. 426.
- Seeley, C. L. (See Unkrich and Seeley.)
- Seeley, F. A., New York, N. Y. Car-fender. No. 916,892; Mar. 30; Sp. p. 6517; Gaz. vol. 140; p. 1164.
- Seeley, F. E., assignor to Bryant Electric Company, Bridgeport, Conn. Incandescent-lamp socket. No. 918,477; Apr. 13; Sp. p. 3070; Gaz. vol. 141; p. 539.
- Seeley, F. E., assignor to Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Push-button switch. No. 936,175; Oct. 5; Sp. p. 1208; Gaz. vol. 147; p. 183.
- Seeley, F. H. (See Wilkinson and Seeley.)
- Seeley, F. J., Pontiac, Mich. Cleaning apparatus. No. 933,926; Sept. 14; Sp. p. 1964; Gaz. vol. 146; p. 323.
- Seeley, W. B., Philadelphia, Pa. Portable stove. No. 936,482; Oct. 12; Sp. p. 1873; Gaz. vol. 147; p. 310.
- Seelhorst, J., Jr., Camden, N. J., assignor of one-half to C. Kull, Philadelphia, Pa. Door or other alarm. No. 942,593; Dec. 7; Sp. p. 1169; Gaz. vol. 149; p. 191.
- Seelow, O. C., Chicago, Ill. Dump-wagon. No. 919,964; Apr. 27; Sp. p. 6418; Gaz. vol. 141; p. 1096.
- Seely, H. B., Chicago, Ill. Culinary utensil. No. 909,238; Jan. 12; Sp. p. 1654; Gaz. vol. 138; p. 298.
- Seely, J. A. (See Fisk and Seely.)
- Seely, J. A., Ogdensburg, N. Y. Steering mechanism. No. 916,893; Mar. 30; Sp. p. 6520; Gaz. vol. 140; p. 1165.
- Seelye, C. H., Oil City, Pa. Invisible stair-carpet clamp. No. 911,767; Feb. 9; Sp. p. 1466; Gaz. vol. 139; p. 273.

*Alphabetical list of patentees—Continued.*

- Seeman, C. F., Tacoma, Wash. Penholder. No. 937,873; Oct. 26; Sp. p. 4745; Gaz. vol. 147; p. 820.  
 Seemann, G., Rockwell, Iowa. Rail-joint. No. 912,495; Feb. 16; Sp. p. 3030; Gaz. vol. 139; p. 548.  
 Seep, J. (See Wilfley, A. R., assignor.)  
 Sees, C. E., Danville, Pa. Saw-guide. No. 944,217; Dec. 21; Sp. p. 4676; Gaz. vol. 149; p. 806.  
 Sefton Manufacturing Company. (See Ferres, J. T., assignor.)  
 Sefton, W., assignor to Hitchings & Company, Elizabeth, N. J. Sash-operating mechanism. No. 909,463; Jan. 12; Sp. p. 2083; Gaz. vol. 138; p. 370.  
 Seib, G. A., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 908,703; Jan. 5; Sp. p. 582; Gaz. vol. 138; p. 90.  
 Seib, G. A., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 919,254; Apr. 20; Sp. p. 4902; Gaz. vol. 141; p. 823.  
 Seib, G. A., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 921,745; May 18; Sp. p. 3395; Gaz. vol. 142; p. 605.  
 Seib, G. A., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 924,006; June 8; Sp. p. 1995; Gaz. vol. 143; p. 331.  
 Seib, G. A., assignor to Monarch Typewriter Company, Syracuse, N. Y. Ribbon-spool for type-writing machines. No. 927,604; July 13; Sp. p. 1864; Gaz. vol. 144; p. 329.  
 Seib, G. A., Ilion, assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 912,186; Feb. 9; Sp. p. 2357; Gaz. vol. 139; p. 407.  
 Seibel, W. A., Montera, Wash. Garment-supporter. No. 941,105; Nov. 23; Sp. p. 5866; Gaz. vol. 148; p. 989.  
 Seiberling, F. A. (See State, W. C., assignor.)  
 Seiberling, F. A., Akron, Ohio. Tire for vehicle-wheels. No. 937,186; Oct. 19; Sp. p. 3302; Gaz. vol. 147; p. 574.  
 Seiberling, J. H., Jonesboro, Ind. Casing for pneumatic tires. No. 932,815; Aug. 31; Sp. p. 6753; Gaz. vol. 145; p. 1158.  
 Seibert, C. A., Sandyville, Ohio. Mirror for spirit-levels. No. 934,698; Sept. 21; Sp. p. 3474; Gaz. vol. 146; p. 605.  
 Seibert, E. H., St. Louis, Mo. Crutch-tip. No. 909,827; Jan. 12; Sp. p. 2799; Gaz. vol. 138; p. 493.  
 Seidel, B., Chicago, Ill. Signal-lantern. No. 917,368; Apr. 6; Sp. p. 836; Gaz. vol. 141; p. 143.  
 Seidel, F. H., assignor of one-half to L. Kreyscher, Harvey, Ill. Multiple mold. No. 910,476; Jan. 19; Sp. p. 4186; Gaz. vol. 138; p. 748.  
 Seidel, G., Saundertown, R. I. Electric motor. No. 912,037; Feb. 9; Sp. p. 2072; Gaz. vol. 139; p. 361.  
 Seidel, G. E., Richmond, Ind. Vehicle-door. No. 918,204; Apr. 13; Sp. p. 2528; Gaz. vol. 141; p. 451.  
 Seidl, F. W., Manitowish, Wis. Clasp. No. 913,854; Mar. 2; Sp. p. 371; Gaz. vol. 140; p. 63.  
 Seiffert, B. R., Radebeul, near Dresden, assignor, by mesne assignments, to Firm of E. Merck, Darmstadt, Germany. Manufacture of new stable iodine compounds of fats. No. 913,311; Feb. 23; Sp. p. 4721; Gaz. vol. 139; p. 846.  
 Seiffert, E. R., Hartford, Conn. Mangle. No. 937,102; Oct. 19; Sp. p. 3111; Gaz. vol. 147; p. 547.  
 Seiffert, J. W., St. Louis, Mo. Washing-machine. No. 912,038; Feb. 9; Sp. p. 2074; Gaz. vol. 139; p. 361.  
 Seiffert, O. F., Beverly, Mass. Crib. No. 929,792; Aug. 3; Sp. p. 341; Gaz. vol. 145; p. 58.  
 Seiffert, P., Constance, Germany. Apparatus for cleaning and pitching casks. No. 929,793; Aug. 3; Sp. p. 343; Gaz. vol. 145; p. 58.  
 Seiffert, W. C., Detroit, Mich. Crate for bottles. No. 914,080; Mar. 2; Sp. p. 909; Gaz. vol. 140; p. 143.  
 Seiffert, W. V., Clay Center, Kans. Antiriction journal-bearing. No. 934,021; Sept. 14; Sp. p. 2141; Gaz. vol. 146; p. 354.  
 Seiffert, F., Berlin, Germany. Sluice-valve. No. 916,494; Mar. 30; Sp. p. 5775; Gaz. vol. 140; p. 1040.  
 Seiffert, F., Berlin, Germany. Expansion-joint device. No. 924,279; June 8; Sp. p. 2586; Gaz. vol. 143; p. 421.  
 Seiffert, J., Portland, Ore. Adjustable measuring-cover for jars, cans, &c. No. 937,723; Oct. 19; Sp. p. 4425; Gaz. vol. 147; p. 751.  
 Seiffert, P. E., assignor of one-half to B. F. Guenther, Chicago, Ill. Garter. No. 915,228; Mar. 16; Sp. p. 3259; Gaz. vol. 140; p. 570.  
 Seigle, A., Lyon, France. Extracting gold, platinum, silver, nickel, copper, &c. No. 915,705; Mar. 16; Sp. p. 4237; Gaz. vol. 140; p. 730.  
 Seil, J., Brooklyn, N. Y. Lathe attachment. No. 916,618; Mar. 30; Sp. p. 6031; Gaz. vol. 140; p. 1081.  
 Seiler, J., Union Hill, N. J. Aeroplane. No. 927,605; July 13; Sp. p. 1866; Gaz. vol. 144; p. 330.  
 Seiler, P., Oakland, assignor of one-half to S. J. Johns, San Francisco, Cal. Synchronizing device for picture-machines and phonographs. No. 939,337; Nov. 9; Sp. p. 1956; Gaz. vol. 148; p. 333.  
 Seiman, A., assignor to J. L. Myers, Paris, France. Automatic fare-indicator for hire or other vehicles. No. 912,899; Feb. 16; Sp. p. 3875; Gaz. vol. 139; p. 683.  
 Seipel, G. M., and C. Grieshaber, Peoria, Ill. Carpet-stretcher. No. 911,179; Feb. 2; Sp. p. 303; Gaz. vol. 139; p. 54.  
 Seipp, H. C., Coraopolis, Pa. Joist-hanger. No. 924,842; June 15; Sp. p. 3755; Gaz. vol. 143; p. 643.  
 Seipp, H. C., Coraopolis, Pa. Joist-hanger. No. 944,847; Dec. 21; Sp. p. 3902; Gaz. vol. 149; p. 678.  
 Seifer, K., New Ulm, Minn. Automatic drinking-fountain. No. 908,506; Jan. 5; Sp. p. 150; Gaz. vol. 138; p. 27.  
 Seifner, S., Jr., Roann, Ind. Swivel-wheel attachment for cultivators. No. 931,504; Aug. 17; Sp. p. 3962; Gaz. vol. 145; p. 683.  
 Seifner, S., Jr., Roann, Ind. Harrow attachment for plows. No. 935,417; Sept. 28; Sp. p. 4908; Gaz. vol. 146; p. 867.  
 Seitz, B. A. (See Ewart, R. B., assignor.)  
 Seitz, C. F., et al. (See Ashley, W. J., assignor.)  
 Seitz, W. J., Grape, Mich. Speed-controller. No. 922,525; May 25; Sp. p. 4990; Gaz. vol. 142; p. 888.  
 Sejournet, P., Paris, assignor to Societe Electro Metallurgique Francaise, Froges, France. Refining iron. No. 928,551; July 20; Sp. p. 3846; Gaz. vol. 144; p. 674.  
 Sekinger, V., Jeannette, Pa. Photographer's dark room. No. 908,892; Jan. 5; Sp. p. 951; Gaz. vol. 138; p. 152.  
 Selah, H. A., assignor of one-half to J. McLinden, North Wildwood, N. J. Recording and printing meter. No. 920,088; Apr. 27; Sp. p. 6697; Gaz. vol. 141; p. 1137.  
 Selah, H. A., Wildwood, assignor of one-half to J. McLinden, North Wildwood, N. J. Recording and printing meter. No. 920,089; Apr. 27; Sp. p. 6699; Gaz. vol. 141; p. 1138.  
 Selah, H. A., Wildwood, assignor of one-half to J. McLinden, North Wildwood, N. J. Gas-meter. No. 920,090; Apr. 27; Sp. p. 6701; Gaz. vol. 141; p. 1138.  
 Selas-Gesellschaft mit beschränkter Haftung. (See Wolff, F. W., assignor.)  
 Selby, D. E., Ballard, Wash. Flush-valve. No. 933,855; Sept. 14; Sp. p. 1824; Gaz. vol. 146; p. 301.  
 Seidal, J. (See Schröder and Seidal.)  
 Selden, E. P., Erie, Pa. Postal-card check. No. 914,460; Mar. 9; Sp. p. 1702; Gaz. vol. 140; p. 292.  
 Selden, F. H., Chicago, Ill. Locking device. No. 944,513; Dec. 28; Sp. p. 5349; Gaz. vol. 149; p. 932.  
 Selden, G. B., Rochester, N. Y. Fuel for internal-combustion engines. No. 928,803; July 20; Sp. p. 4346; Gaz. vol. 144; p. 757.  
 Selden, G. B., Rochester, N. Y. Fuel. No. 929,503; July 27; Sp. p. 5790; Gaz. vol. 144; p. 1016.  
 Selders, D. E., Van Orin, Ill. Power-transmission apparatus. No. 941,280; Nov. 23; Sp. p. 6263; Gaz. vol. 148; p. 1048.  
 Self, F. E., Springfield, Mo. Press. No. 929,717; Aug. 3; Sp. p. 162; Gaz. vol. 145; p. 29.  
 Self, J. H. (See Whaley, J. N., assignor.)  
 Self, M. D., Bessemer, assignor of one-half to W. E. Woodson, Jefferson county, Ala. Trolley-retriever. No. 930,698; Aug. 10; Sp. p. 2203; Gaz. vol. 145; p. 384.  
 Self Winding Clock Company. (See Schmidt, F. M., assignor.)  
 Selse, S. H., Corona, N. Y. Punching-bag. No. 923,379; June 1; Sp. p. 610; Gaz. vol. 143; p. 90.  
 Selg Brewery Apparatus Co. (See Selg and Guntrum, assignors.)  
 Selg, O., and C. Guntrum, assignors to Selg Brewery Apparatus Co., New York, N. Y. Apparatus for separating and washing yeast. No. 918,096; Apr. 13; Sp. p. 2309; Gaz. vol. 141; p. 414.  
 Selig Polyscope Company. (See Crosby, J. A., assignor.)  
 Selig Polyscope Company. (See Selig, W. N., assignor.)  
 Selig, W. N., assignor to Selig Polyscope Company, Chicago, Ill. Safety-shutter for moving-picture lanterns. No. 928,804; July 20; Sp. p. 4347; Gaz. vol. 144; p. 757.  
 Seligstein, I. (See Hougland, F. H., assignor.)  
 Selinger, H. F., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Transformer. No. 916,792; Mar. 30; Sp. p. 6331; Gaz. vol. 140; p. 1131.  
 Sell, S. C., Canton, Ohio, and A. M. Filhour, McCords, Mich. Skirt-marker. No. 944,639; Dec. 28; Sp. p. 5625; Gaz. vol. 149; p. 976.  
 Sella, C., Biella, Italy. Rotary explosive-engine. No. 917,165; Apr. 6; Sp. p. 416; Gaz. vol. 141; p. 72.  
 Sellar, J. L. (See Brown, Hanrahan, and Sellar.)  
 Selleck, J. F., Jr., Passaic, N. J. Stamp-pad and manner of treating the same. No. 910,323; Jan. 19; Sp. p. 3871; Gaz. vol. 138; p. 696.  
 Selleck, W. L., Brodhead, Wis. Hydrant. No. 926,512; June 29; Sp. p. 7119; Gaz. vol. 143; p. 1256.  
 Sellenscheidt, C., Berlin, Germany. Apparatus for corking bottles. No. 925,518; June 22; Sp. p. 5079; Gaz. vol. 143; p. 894.  
 Sellenscheidt, F., Milwaukee, Wis. Filter. No. 927,606; July 13; Sp. p. 1869; Gaz. vol. 144; p. 330.  
 Sellers, D. L. (See White, C. R., assignor.)  
 Sellers, G., Chicago, Ill. Electrical transmission of graphic messages. No. 939,338; Nov. 9; Sp. p. 1957; Gaz. vol. 148; p. 334.  
 Sellers, G., Chicago, Ill. Electric transmission of messages. No. 939,339; Nov. 9; Sp. p. 1964; Gaz. vol. 148; p. 334.  
 Sellers, M. B., Baltimore, Md. Flying-machine. No. 927,289; July 6; Sp. p. 1202; Gaz. vol. 144; p. 198.



*Alphabetical list of patentees—Continued.*

- Sellers, R. M., Marshall, Ohio. Clutch-shoe. No. 924,944; June 15; Sp. p. 3962; Gaz. vol. 143; p. 677.
- Sellew E. B., Pawtucket, R. I. Boring, turning, and facing machine. No. 913,312; Feb. 23; Sp. p. 4723; Gaz. vol. 139; p. 846.
- Sellew, E. B., Pawtucket, R. I. Metal-working machine. No. 923,449; June 1; Sp. p. 760; Gaz. vol. 143; p. 113.
- Selley, E. J., New York, N. Y. Vehicle-wheel. No. 942,939; Dec. 14; Sp. p. 1944; Gaz. vol. 149; p. 338.
- Sellon, C. E., Rudd, Iowa. Combined post and fence-wire fastening device. No. 917,166; Apr. 6; Sp. p. 419; Gaz. vol. 141; p. 73.
- Selma Fruit Company. (See Elliott, T. H., assignor.)
- Selsor, G. E., Germantown, Pa. Broom-holder. No. 928,284; July 20; Sp. p. 3321; Gaz. vol. 144; p. 586.
- Selsor, R. P., Enid, Okla. Oil-burner. No. 933,674; Sept. 7; Sp. p. 1447; Gaz. vol. 146; p. 218.
- Seltzer, W. V. R., Ephrata, Pa. Lamp-shade holder. No. 933,125; Sept. 7; Sp. p. 184; Gaz. vol. 146; p. 31.
- Selvig, J. N., Chicago, Ill., assignor to Universal Fiber Company. Feeding mechanism for fiber-treating machines. No. 928,223; July 13; Sp. p. 3140; Gaz. vol. 144; p. 535.
- Selzer, E. M., Morning Sun, Iowa. Chicken brooder or coop. No. 944,918; Dec. 28; Sp. p. 6221; Gaz. vol. 149; p. 1069.
- Semet Solvay Company. (See Fryer, G. G., assignor.)
- Semler, O., *et al.* (See Spähr, E. J., assignor.)
- Semper, M. G., Weferlingen, Germany. Rotary kiln. No. 909,464; Jan. 12; Sp. p. 2084; Gaz. vol. 138; p. 370.
- Senderling, M. L., Jersey City, N. J. Spring-clip construction. No. 911,545; Feb. 2; Sp. p. 991; Gaz. vol. 139; p. 173.
- Sendlein, M., St. Louis, Mo. Fire-kindler. No. 908,615; Jan. 5; Sp. p. 389; Gaz. vol. 138; p. 63.
- Seneca Camera Manufacturing Company. (See Goddard, J., assignor.)
- Seneca Falls Manufacturing Company. (See Darling and Runge, assignors.)
- Seneca Falls Manufacturing Company. (See MacBain, W. C., assignor.)
- Senecal, P. A., Winnipeg, Manitoba, Canada. Car pipe-line coupling. No. 915,894; Mar. 23; Sp. p. 4606; Gaz. vol. 140; p. 817.
- Senecal, P. A., Winnipeg, Manitoba, Canada. Car pipe-line coupling. No. 937,874; Oct. 26; Sp. p. 4746; Gaz. vol. 147; p. 820.
- Seney, H. W., *et al.* (See Hecker, W., assignor.)
- Senfelder, F. H., Irvington, N. J. Gas-meter connection. No. 932,816; Aug. 31; Sp. p. 6754; Gaz. vol. 145; p. 1158.
- Seng, Company. (See Farbrake, J. A., assignor.)
- Seng Company. (See Franks, O. G., assignor.)
- Seng, W. F., Chicago, Ill. Rivet-spinning machine. No. 939,558; Nov. 9; Sp. p. 2452; Gaz. vol. 148; p. 406.
- Seng, W. F., Chicago, Ill. Rivet-spinning machine. No. 939,559; Nov. 9; Sp. p. 2454; Gaz. vol. 148; p. 407.
- Sengele, L. A., assignor of one-third to L. T. Steele, Victoria, Tex. Pot-feeder for type-casting machines. No. 932,817; Aug. 31; Sp. p. 6755; Gaz. vol. 145; p. 1159.
- Senn, A., Marshfield, Wis. Pipe-vise. No. 912,187; Feb. 9; Sp. p. 2360; Gaz. vol. 139; p. 408.
- Senn, C., assignor of one-half to J. J. Smith, Stockton, and one-fourth to D. C. Demarest, San Francisco, Cal. Self-lubricating air-cock for rock-drills. No. 933,675; Sept. 7; Sp. p. 1449; Gaz. vol. 146; p. 218.
- Senn, E., Egg Harbor City, N. J. Hoe. No. 922,202; May 18; Sp. p. 4341; Gaz. vol. 142; p. 755.
- Senn, G. W., St. Louis, Mo. Tennis apparatus. No. 927,179; July 6; Sp. p. 994; Gaz. vol. 144; p. 161.
- Senn, H., Szczakowa, and D. Klüger, Trzebinia, Austria-Hungary. Manufacturing a porous material. No. 930,801; Aug. 10; Sp. p. 2415; Gaz. vol. 145; p. 419.
- Senn, W. W., Munson Station, Pa. Nut-lock. No. 941,959; Nov. 30; Sp. p. 7703; Gaz. vol. 148; p. 1298.
- Sennott, P. L., Chicago, Ill. Straining-pail. No. 925,040; June 15; Sp. p. 4173; Gaz. vol. 143; p. 710.
- Sennstrom, J. H., Chicago, Ill. Postless fence. No. 936,048; Oct. 5; Sp. p. 952; Gaz. vol. 147; p. 142.
- Sensburg, L. (See Osborne and Schupp, assignors.)
- Sentell, T. H., Santa Barbara, Cal. Disk-record cabinet. No. 925,236; June 15; Sp. p. 4542; Gaz. vol. 143; p. 776.
- Sentler, J. F., Chattanooga, Tenn. Boiler-feeder. No. 911,768; Feb. 9; Sp. p. 1467; Gaz. vol. 139; p. 273.
- Senter, J. F., assignor to J. J. Bond, Chattanooga, Tenn. Pump-governor. No. 913,650; Feb. 23; Sp. p. 5454; Gaz. vol. 139; p. 960.
- Senter, J. F., assignor of one-half to J. J. Bond, Chattanooga, Tenn. Boiler-feeder. No. 934,845; Sept. 21; Sp. p. 3763; Gaz. vol. 146; p. 658.
- Senter, M. L., Clintwood, Va. Wrench. No. 929,504; July 27; Sp. p. 5791; Gaz. vol. 144; p. 1016.
- Sepulchre, F., Liege, Belgium. Apparatus for purifying gases. No. 931,229; Aug. 17; Sp. p. 3399; Gaz. vol. 145; p. 590.
- Séquin, E. (See Müry, H., assignor.)
- Serely, A., assignor of one-half to E. Jutt, Pittsburg, Pa. Valve for radiators. No. 912,188; Feb. 9; Sp. p. 2361; Gaz. vol. 139; p. 408.
- Seren, M. C., Toledo, Ohio. Nipple-chuck. No. 912,420; Feb. 16; Sp. p. 2886; Gaz. vol. 139; p. 523.
- Seren, M. C., Toledo, Ohio. Automatic nipple-chuck. No. 912,421; Feb. 16; Sp. p. 2887; Gaz. vol. 139; p. 523.
- Serena, A., assignor of one-half to M. Arcelloni, New York, N. Y. Coin packaging and counting machine. No. 919,255; Apr. 20; Sp. p. 4906; Gaz. vol. 141; p. 823.
- Serloss, A., Ashley, Pa. Right and left calking-tool. No. 938,173; Oct. 26; Sp. p. 5393; Gaz. vol. 147; p. 921.
- Serfoza, A., Chicago, Ill. Wrench. No. 932,818; Aug. 31; Sp. p. 6759; Gaz. vol. 145; p. 1159.
- Sergeant, C. H., New York, N. Y. Internal-combustion engine. No. 932,184; Aug. 24; Sp. p. 5438; Gaz. vol. 145; p. 926.
- Serrell, J. A., North Plainfield, and M. P. Osbourn, Merchantville, N. J., assignors to Warren Webster & Company. Valve. No. 935,329; Sept. 28; Sp. p. 4732; Gaz. vol. 146; p. 840.
- Serruys, A. M. C. and M. M. J., Spokane, Wash. Corset. No. 939,868; Nov. 9; Sp. p. 3115; Gaz. vol. 148; p. 514.
- Serruys, M. M. J. (See Serruys, A. M. C. and M. M. J.)
- Sesella, F. J., Lorain, Ohio. Ankle-brace. No. 938,440; Oct. 26; Sp. p. 5977; Gaz. vol. 147; p. 1013.
- Sessions, A. L., Bristol, Conn. Corner-iron. No. 910,324; Jan. 19; Sp. p. 3872; Gaz. vol. 138; p. 697.
- Sessions, F. L., Columbus, Ohio, assignor, by mesne assignments, to Jeffrey Manufacturing Company. Electric vehicle and cable reel. No. 915,811; Mar. 16; Sp. p. 3414; Gaz. vol. 140; p. 596.
- Sessions, F. L., Columbus, Ohio, assignor, by mesne assignments, to Jeffrey Manufacturing Company. Electric locomotive. No. 915,895; Mar. 23; Sp. p. 4608; Gaz. vol. 140; p. 818.
- Sessions, F. L., Columbus, Ohio, assignor, by mesne assignments, to Jeffrey Manufacturing Company. Cylinder-head. No. 933,789; Sept. 14; Sp. p. 1684; Gaz. vol. 146; p. 279.
- Sessions, F. L., Columbus, Ohio, assignor, by mesne assignments, to Jeffrey Manufacturing Company. Controller for electric motors. No. 934,097; Sept. 14; Sp. p. 2299; Gaz. vol. 146; p. 378.
- Sessions, F. L., Columbus, Ohio, assignor, by mesne assignments, to Jeffrey Manufacturing Company. Hanger for wires. No. 936,370; Oct. 12; Sp. p. 1612; Gaz. vol. 147; p. 273.
- Seteck, J. (See Seteck, J. and J.)
- Seteck, J. and J., Chicago, Ill. Merry-go-round. No. 943,276; Dec. 14; Sp. p. 2676; Gaz. vol. 149; p. 453.
- Seth Thomas Clock Company. (See Armour, W. A., assignor.)
- Seth Thomas Clock Company. (See Lapham and Walker, assignors.)
- Settergren, B., assignor to J. Gubbins, Chicago, Ill. Clutch-gear for hubs of vehicles. No. 922,965; May 25; Sp. p. 5920; Gaz. vol. 142; p. 1031.
- Settles, S., La Due, Mo., assignor of one-third to C. M. Beachy, Wichita, Kans. Clothes-line reel. No. 919,388; Apr. 27; Sp. p. 5207; Gaz. vol. 141; p. 903.
- Setz, H. R., Pittsburg, Pa. Liquid-fuel-combustion engine. No. 940,369; Nov. 16; Sp. p. 4277; Gaz. vol. 148; p. 719.
- Setzer, J. L., Stanberry, Mo. Extension-ladder. No. 929,169; July 27; Sp. p. 5109; Gaz. vol. 144; p. 907.
- Setzer, J. L., Stanberry, Mo. Low-water signal for boilers. No. 940,202; Nov. 16; Sp. p. 3902; Gaz. vol. 148; p. 662.
- Severin, H. A. (See Whitsel, J. D., assignor.)
- Seyern, W. (See Messmore and Seyern.)
- Severy, M. L., Arlington Heights, Mass. Means for utilizing solar heat. No. 937,013; Oct. 12; Sp. p. 2929; Gaz. vol. 147; p. 487.
- Sevey, G. L. (See Fowler, C. M., assignor.)
- Sewall, M. W., Roselle, assignor to Babcock & Wilcox Company, Bayonne, N. J. Furnace. No. 941,657; Nov. 30; Sp. p. 7060; Gaz. vol. 148; p. 1195.
- Sewall, M. W., Roselle, assignor to Babcock & Wilcox Company, Bayonne, N. J. Furnace. No. 941,658; Nov. 30; Sp. p. 7062; Gaz. vol. 148; p. 1195.
- Seward, E. J., assignor to Berry Brothers, Limited, Detroit, Mich. Toy. No. 935,865; Oct. 5; Sp. p. 571; Gaz. vol. 147; p. 82.
- Seward, E. R. (See Pearson and Seward.)
- Seward, E. R. (See Witherell and Seward.)
- Seward, E. R., Hartford, Conn. Gage. No. 919,477; Apr. 27; Sp. p. 5424; Gaz. vol. 141; p. 934.
- Seward, E. R., assignor to Hartford Machine Screw Company, Hartford, Conn. Stop-motion for metal-working machines. No. 925,041; June 15; Sp. p. 4174; Gaz. vol. 143; p. 710.
- Seward, E. R., assignor to Hartford Machine Screw Company, Hartford, Conn. Metal-working machine. No. 927,432; July 6; Sp. p. 1468; Gaz. vol. 144; p. 244.
- Seward, G. O. (See Kügelgen and Seward.)
- Seward, G. O., Holcombs Rock, Va., assignor, by mesne assignments, to Electro Metallurgical Company. Tapping-furnace. No. 940,561; Nov. 16; Sp. p. 4703; Gaz. vol. 148; p. 783.

*Alphabetical list of patentees—Continued.*

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- Seward, G. O., and F. von Kùgelgen, Holcombs Rock, Va., assignors to Virginia Laboratory Company, New York, N. Y. Electrolytic production of magnesium. No. 931,092; Aug. 17; Sp. p. 3093; Gaz. vol. 145; p. 542.
- Seward, G. O., and F. von Kùgelgen, Holcombs Rock, Va., assignors to Virginia Laboratory Company, New York, N. Y. Production of alloys of alkali-earth metals, &c. No. 944,826; Dec. 28; Sp. p. 6036; Gaz. vol. 149; p. 1038.
- Seward, H., Petersburg, Va. Hat-holder for packing-receptacles. No. 930,420; Aug. 10; Sp. p. 1606; Gaz. vol. 145; p. 291.
- Sewing Machine Supplies Company. (See Putnam, F. A., assignor.)
- Sexauer, F., St. Louis, Mo. Door-bell. No. 943,320; Dec. 14; Sp. p. 2765; Gaz. vol. 149; p. 467.
- Sexton, J. J., *et al.* (See Sharp, H. J., assignor.)
- Sexton, T. F., Baltimore, Md. Horseshoe. No. 919,256; Apr. 20; Sp. p. 4909; Gaz. vol. 141; p. 823.
- Sextone, E. R., Chicago, Ill. Form-gage. No. 938,280; Oct. 26; Sp. p. 5602; Gaz. vol. 147; p. 958.
- Seybert, H. F., Perry township, Armstrong county, Pa. Reversing means for shafts. No. 943,477; Dec. 14; Sp. p. 3101; Gaz. vol. 149; p. 522.
- Seybold, C., Dayton, Ohio. Clamp for paper-cutters. No. 911,337; Feb. 2; Sp. p. 615; Gaz. vol. 139; p. 106.
- Seybold, C., Dayton, Ohio. Paper-cutting machine. No. 918,205; Apr. 13; Sp. p. 2531; Gaz. vol. 141; p. 451.
- Seybold Machine Company. (See Bradmiller, F., assignor.)
- Seyboth, F. W., Zwickau, Germany. Mechanical stoker for furnaces. No. 939,869; Nov. 9; Sp. p. 3116; Gaz. vol. 148; p. 514.
- Seydewitz, A. G., Muskegon, Mich. Knockdown furniture. No. 919,257; Apr. 20; Sp. p. 4910; Gaz. vol. 141; p. 824.
- Seyl, J. C. (See Butts, D. G., assignor.)
- Seyler, G. V. (See Taylor, S. W., assignor.)
- Seyler, U. M., assignor of one-third to R. R. Snyder and one-third to J. M. Hassinger, Nashville, Ill. Engine-starter. No. 934,576; Sept. 21; Sp. p. 3222; Gaz. vol. 146; p. 562.
- Seymore, C. H., Kansas City, Mo. Milking-machine. No. 909,239; Jan. 12; Sp. p. 1656; Gaz. vol. 138; p. 298.
- Seymore, C. H., Kansas City, Mo. Weight-carrying mechanism. No. 915,628; Mar. 16; Sp. p. 4069; Gaz. vol. 140; p. 703.
- Seymour, A. F., *et al.* (See Josselyn, J. A., assignor.)
- Seymour, B. F., Denver, Colo. Transmission mechanism. No. 920,190; May 4; Sp. p. 194; Gaz. vol. 142; p. 31.
- Seymour, B. F., Denver, Colo. Impelling mechanism for conveyances. No. 920,191; May 4; Sp. p. 197; Gaz. vol. 142; p. 31.
- Seymour, B. F., Denver, Colo. Transmission mechanism. No. 920,192; May 4; Sp. p. 200; Gaz. vol. 142; p. 32.
- Seymour, B. F., Denver, Colo. Air-ship. No. 937,187; Oct. 19; Sp. p. 3604; Gaz. vol. 147; p. 575.
- Seymour, F., Paterson, N. J. Spindle. No. 909,465; Jan. 12; Sp. p. 2085; Gaz. vol. 138; p. 371.
- Seymour, F., Paterson, N. J. Spinning, doubling, and twisting machine. No. 909,466; Jan. 12; Sp. p. 2086; Gaz. vol. 138; p. 371.
- Seymour, F., assignor to Modern Silk Company, Paterson, N. J. Compound spindle. No. 936,672; Oct. 12; Sp. p. 2260; Gaz. vol. 147; p. 376.
- Seymour, J. S., Whitney Point, N. Y. Process and apparatus for making calcium carbide. No. 916,495; Mar. 30; Sp. p. 5776; Gaz. vol. 140; p. 1040.
- Seymour, O. J., New York, N. Y. Mail-bag deliverer and catcher. No. 932,337; Aug. 24; Sp. p. 5728; Gaz. vol. 145; p. 977.
- Seymour, R. C., Larchmont, N. Y., assignor to Goss Printing Press Company, Chicago, Ill. Folding-machine. No. 931,230; Aug. 17; Sp. p. 3401; Gaz. vol. 145; p. 590.
- Seymour, R. D., Denver, Colo. Grip mechanism for cable-tramways. No. 913,775; Mar. 2; Sp. p. 209; Gaz. vol. 140; p. 35.
- Seymour, W. A., Paterson, N. J. Street-sweeping machine. No. 918,602; Apr. 20; Sp. p. 3347; Gaz. vol. 141; p. 608.
- Seymour, W. A., South Haven, Mich. Mailing-tube. No. 910,732; Jan. 26; Sp. p. 4703; Gaz. vol. 138; p. 855.
- Seymour, W. I., Denver, Colo. Forming lenses. No. 914,316; Mar. 2; Sp. p. 1412; Gaz. vol. 140; p. 218.
- Shackelford, G. C., Youngstown, Ohio, assignor of one-half to T. J. Bray, Pittsburg, Pa. Blast-furnace-charging apparatus. No. 926,143; June 29; Sp. p. 6396; Gaz. vol. 143; p. 1135.
- Shackleton, W., Fall River, Mass. Safety gas-valve. No. 915,706; Mar. 16; Sp. p. 4239; Gaz. vol. 140; p. 730.
- Shade, C. E., Tacoma, Wash. Tie-plate. No. 916,794; Mar. 30; Sp. p. 6335; Gaz. vol. 140; p. 1132.
- Shade, P. D., Schuyler, Pa. Metallic gasket. No. 908,893; Jan. 5; Sp. p. 954; Gaz. vol. 138; p. 152.
- Shadle, G. W., Philadelphia, Pa. Comb. No. 914,979; Mar. 9; Sp. p. 2737; Gaz. vol. 140; p. 401.
- Shafer, F. B., Northville, Mich. Milking-machine. No. 915,312; Mar. 16; Sp. p. 3419; Gaz. vol. 140; p. 597.
- Shafer, F. B., Northville, Mich. Milk-tube. No. 915,313; Mar. 16; Sp. p. 3420; Gaz. vol. 140; p. 597.
- Shafer, H. S., Nazareth, Pa. Snap-fastener for shoe-laces. No. 912,900; Feb. 16; Sp. p. 3883; Gaz. vol. 139; p. 684.
- Shafer, H. S., Nazareth, Pa. Rail-joint. No. 912,901; Feb. 16; Sp. p. 3884; Gaz. vol. 139; p. 684.
- Shafer, O. E., assignor to Geo. W. Grimes Company, Bluffton, Ind. Belt-tightening device. No. 916,619; Mar. 30; Sp. p. 6032; Gaz. vol. 140; p. 1081.
- Shafer, W. A., Moab, Utah. Phonograph-record case. No. 916,795; Mar. 30; Sp. p. 6337; Gaz. vol. 140; p. 1132.
- Shaffer, A. H. (See Andrews, W. E., assignor.)
- Shaffer, C. H., Muskegon, Mich. Electric block system for railways. No. 914,461; Mar. 9; Sp. p. 1703; Gaz. vol. 140; p. 292.
- Shaffer, D. A., Harrisburg, Pa. Removable horseshoe-calk. No. 924,586; June 8; Sp. p. 3192; Gaz. vol. 143; p. 522.
- Shaffer, D. W., Chattanooga, Okla. Wrench. No. 937,966; Oct. 26; Sp. p. 4927; Gaz. vol. 147; p. 851.
- Shaffer Expanding Reversible Envelope & Box Company. (See Shaffer, M. J., assignor.)
- Shaffer F., Vandergrift, Pa. Talking-machine. No. 929,505; July 27; Sp. p. 5792; Gaz. vol. 144; p. 1016.
- Shaffer, M. J., Brookline, Mass., assignor to Shaffer Expanding Reversible Envelope & Box Company. Collapsible receptacle. No. 922,345; May 18; Sp. p. 4603; Gaz. vol. 142; p. 800.
- Shaffer, M. J., Brookline, assignor to Shaffer Expanding Reversible Envelope & Box Company, Boston, Mass. Envelop. No. 926,025; June 22; Sp. p. 6144; Gaz. vol. 143; p. 1050.
- Shafter, R. R., New York, N. Y. Tubular triturating-mill. No. 926,441; June 29; Sp. p. 7004; Gaz. vol. 143; p. 1234.
- Shahan, S. W. (See Weaver, T. W. and C. B., assignors.)
- Shaifer, H. D., Philadelphia, Pa. Nailless horseshoe. No. 924,694; June 15; Sp. p. 3442; Gaz. vol. 143; p. 592.
- Shainsey, F. J., Sr., Dayton, Ohio, assignor, by mesne assignments, to Krentler-Arnold Hinge Last Company, Detroit, Mich. Last-lock. No. 938,903; Nov. 2; Sp. p. 1001; Gaz. vol. 148; p. 157.
- Shallenberger, C. S., St. Louis, Mo. Brake-shoe. No. 915,119; Mar. 16; Sp. p. 3032; Gaz. vol. 140; p. 535.
- Shallenberger, C. S., assignor to Scullin-Gallagher Iron & Steel Company, St. Louis, Mo. Car-truck. No. 922,966; May 25; Sp. p. 5922; Gaz. vol. 142; p. 1032.
- Shallenberger, C. S., assignor to Scullin-Gallagher Iron & Steel Company, St. Louis, Mo. Car-truck. No. 922,967; May 25; Sp. p. 5923; Gaz. vol. 142; p. 1032.
- Shallenberger, C. S., assignor to C. M. Clark, St. Louis, Mo. Car-truck. No. 939,870; Nov. 9; Sp. p. 3118; Gaz. vol. 148; p. 515.
- Shamiah, H., Brooklyn, N. Y., and G. Witty, Jersey City, N. J. Plaster-board. No. 914,317; Mar. 2; Sp. p. 1414; Gaz. vol. 140; p. 218.
- Shanafelt Manufacturing Company. (See Essig, R. R., assignor.)
- Shanahan, W. (See Schmitz and Shanahan.)
- Shand, J., assignor of one-third to E. L. Ackerman and one-third to C. E. Chamberlin, Detroit, Mich. Latch mechanism. No. 929,988; Aug. 3; Sp. p. 779; Gaz. vol. 145; p. 124.
- Shane, L., *et al.* (See Edinger, C. J., assignor.)
- Shane, R. C. (See Ritchey and Shane.)
- Shaner, A. F., Muncy Valley, Pa. Rail clamp and brace. No. 909,032; Jan. 5; Sp. p. 1225; Gaz. vol. 138; p. 197.
- Shank, A. W., assignor of one-half to G. Rottman, one-eighth to G. W. Lynn, and one-eighth to W. W. Tackabury, Detroit, Mich. Fender. No. 942,290; Dec. 7; Sp. p. 562; Gaz. vol. 149; p. 89.
- Shank A. W., assignor of one-half to E. R. Kniffen, Detroit, Mich. Washing-machine. No. 944,285; Dec. 28; Sp. p. 4826; Gaz. vol. 149; p. 851.
- Shank, E. P., assignor to I. Stephenson Company, Wells, Mich. Woodworking-machine. No. 942,940; Dec. 14; Sp. p. 1946; Gaz. vol. 149; p. 339.
- Shank, W. C., Mont Alto, Pa. File-holder. No. 938,519; Nov. 2; Sp. p. 177; Gaz. vol. 148; p. 25.
- Shankland, D. E., and O. F. Brown, White River, Colo. Attachment for the jaws of vices. No. 915,490; Mar. 16; Sp. p. 3771; Gaz. vol. 140; p. 656.
- Shanklin, J. R., Charleston, W. Va. Expansion-tank. No. 920,672; May 4; Sp. p. 1185; Gaz. vol. 142; p. 190.
- Shanks, E. B., Springfield, Va. Vending-machine. No. 925,662; June 22; Sp. p. 5368; Gaz. vol. 143; p. 940.
- Shanks, S. W., Benton Harbor, Mich. Hoe. No. 917,670; Apr. 6; Sp. p. 1374; Gaz. vol. 141; p. 242.
- Shanley, W. E., assignor of one-half to W. H. Hazelhurst, Norwich, Conn. Finder for cameras. No. 916,205; Mar. 23; Sp. p. 5185; Gaz. vol. 140; p. 918.
- Shannon, H., Cyclone, Pa. Walking-beam. No. 914,608; Mar. 9; Sp. p. 2000; Gaz. vol. 140; p. 341.
- Shannon, J. W., *et al.* (See Haile, L. T., assignor.)
- Shannon-Registrator-Co. Aug. Zeiss & Co. (See Zeiss and Rudert, assignors.)
- Shannon, W., Louisville, Ky. Bed. No. 924,007; June 8; Sp. p. 1996; Gaz. vol. 143; p. 331.



*Alphabetical list of patentees—Continued.*

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 Shannon, W., Louisville, Ky. Bed-bottom. No. 931,149; Aug. 17; Sp. p. 3223; Gaz. vol. 145; p. 562.  
 Shannon, W. K., Cincinnati, Ohio. Hat-bag. No. 934,098; Sept. 14; Sp. p. 2304; Gaz. vol. 146; p. 378.  
 Shantz, E., Rochester, N. Y. Button-making machine. No. 934,940; Sept. 21; Sp. p. 3952; Gaz. vol. 146; p. 686.  
 Shapiro, D. (See Bradford, J., assignor.)  
 Shapiro, J., and N. Komow, New York, N. Y. Seal and protector for knots. No. 935,554; Sept. 28; Sp. p. 6206; Gaz. vol. 146; p. 913.  
 Shapiro, S., Philadelphia, Pa. Pasteurizing apparatus. No. 933,927; Sept. 14; Sp. p. 1965; Gaz. vol. 146; p. 324.  
 Shapleigh, M. S., Plainfield, N. J. Cutter. No. 917,497; Apr. 6; Sp. p. 1057; Gaz. vol. 141; p. 185.  
 Sharman, A. W., Clapham, London, England. Wireless telephony and telegraphy. No. 942,044; Nov. 30; Sp. p. 7861; Gaz. vol. 148; p. 1324.  
 Sharon, J., Canaseraga, N. Y. Adjustable caster. No. 920,673; May 4; Sp. p. 1189; Gaz. vol. 142; p. 191.  
 Sharon, J. G., Quincy, Fla. Stick for curing tobacco. No. 912,902; Feb. 16; Sp. p. 3885; Gaz. vol. 139; p. 684.  
 Sharood, C. K., St. Paul, Minn. Shoe-sole. No. 909,338; Jan. 12; Sp. p. 1844; Gaz. vol. 138; p. 331.  
 Sharp, C. S., Auburn, N. Y., assignor to International Harvester Company. Disk-harrow. No. 940,203; Nov. 16; Sp. p. 3903; Gaz. vol. 148; p. 662.  
 Sharp, F. M., and L. W. Williams, Sharon, Pa. Machine for removing cores from castings. No. 930,892; Aug. 10; Sp. p. 2622; Gaz. vol. 145; p. 449.  
 Sharp, G. W., assignor of one-half to J. A. Smith, Francis, Okla. Shipping-crate. No. 936,259; Oct. 5; Sp. p. 1353; Gaz. vol. 147; p. 208.  
 Sharp, H. H., and W. R. Vanaman, Atlantic City, N. J. Train-signal system. No. 916,038; Mar. 23; Sp. p. 4832; Gaz. vol. 140; p. 864.  
 Sharp, H. J., assignor of one-half to D. M. Osborne and J. J. Sexton, Columbus, Ohio. Screen. No. 909,240; Jan. 12; Sp. p. 1659; Gaz. vol. 138; p. 299.  
 Sharp, H. J., assignor to Century Manufacturing Company, Columbus, Ohio. Table. No. 929,989; Aug. 3; Sp. p. 781; Gaz. vol. 145; p. 124.  
 Sharp, J., assignor of one-half to H. P. Chigbrow, San Diego, Cal. Combination nut-lock. No. 925,602; June 22; Sp. p. 5242; Gaz. vol. 143; p. 922.  
 Sharp, J. and W., Cleveland, Ohio. High-tension spark-plug. No. 935,931; Oct. 5; Sp. p. 709; Gaz. vol. 147; p. 104.  
 Sharp, J. A., Springfield, Ohio, assignor to International Harvester Company. Clutch. No. 925,957; June 22; Sp. p. 6009; Gaz. vol. 143; p. 1038.  
 Sharp, J. A., Springfield, Ohio, assignor to International Harvester Company. Cord-knotter. No. 933,126; Sept. 7; Sp. p. 184; Gaz. vol. 146; p. 31.  
 Sharp, J. M., Pittsburg, Pa. Hook for chains. No. 944,970; Dec. 28; Sp. p. 6320; Gaz. vol. 149; p. 1085.  
 Sharp, J. W., Chicago, Ill. Safety system for railways. No. 926,214; June 29; Sp. p. 6571; Gaz. vol. 143; p. 1160.  
 Sharp, J. W., Jr., Philadelphia, Pa. Water-closet and tank. No. 941,539; Nov. 30; Sp. p. 6817; Gaz. vol. 148; p. 1154.  
 Sharp, J. W., Jr., Philadelphia, Pa. Washbasin. No. 941,540; Nov. 30; Sp. p. 6819; Gaz. vol. 148; p. 1154.  
 Sharp, L. C., Plattsmouth, Nebr. Metallic railway-tie. No. 913,985; Mar. 2; Sp. p. 705; Gaz. vol. 140; p. 110.  
 Sharp, L. C., Plattsmouth, Nebr., assignor to American Can Company, New York, N. Y. Can-cover-coating machine. No. 930,802; Aug. 10; Sp. p. 2416; Gaz. vol. 145; p. 419.  
 Sharp, R. E., Grady, Okla. Churn. No. 913,936; Mar. 2; Sp. p. 706; Gaz. vol. 140; p. 111.  
 Sharp, R. E., Newaygo, Mich. Roller-boat. No. 919,782; Apr. 27; Sp. p. 6034; Gaz. vol. 141; p. 1037.  
 Sharp, R. G., and E. D. Rowntree, Leeds, assignors to Leeds Forge Company, Limited, Leeds Forge, Leeds, England. Railway-wagon and other receptacle. No. 910,152; Jan. 19; Sp. p. 3458; Gaz. vol. 138; p. 633.  
 Sharp, W. (See Sharp, J. and W.)  
 Sharp, W. E. (See Robbins and Sharp.)  
 Sharp, W. E., Chicago, assignor of one-half to G. B. Robbins, Hinsdale, Ill. Safety-vent for tank-cars. No. 924,587; June 8; Sp. p. 3194; Gaz. vol. 143; p. 523.  
 Sharp, W. E., Chicago, assignor of one-half to G. B. Robbins, Hinsdale, Ill. Angle-cock support and lock for air-brake systems. No. 927,686; July 13; Sp. p. 2053; Gaz. vol. 144; p. 356.  
 Sharp, W. E., Chicago, assignor of one-half to G. B. Robbins, Hinsdale, Ill. Angle-cock support and lock for air-brake systems. (Reissue.) No. 13,029; Oct. 26; Sp. p. 6033; Gaz. vol. 147; p. 1019.  
 Sharpe, G. W., New York, N. Y. Tire. No. 935,613; Sept. 28; Sp. p. 5320; Gaz. vol. 146; p. 933.  
 Sharpe, J. K., Jr., et al. (See Schuman, J. B., assignor.)  
 Sharpe, J. K., Jr., and C. N. Leonard, Indianapolis, Ind.; said Leonard assignor to said Sharpe. Motor-vehicle. No. 929,794; Aug. 3; Sp. p. 345; Gaz. vol. 145; p. 58.  
 Sharples Separator Company. (See McCormack, H., assignor.)  
 Sharpneck, E. L., Winthrop, Mass. Roller-bearing. No. 923,716; June 1; Sp. p. 1328; Gaz. vol. 143; p. 206.  
 Sharpneck, E. L., Boston, Mass. Starting device for internal-combustion motors. No. 942,467; Dec. 7; Sp. p. 919; Gaz. vol. 149; p. 148.  
 Sharpneck, E. L. and W. S., Boston, Mass. Journal-bearing. No. 924,843; June 15; Sp. p. 3758; Gaz. vol. 143; p. 643.  
 Sharpneck, M. C., Boston, Mass. Air-compressor and driving means therefor. No. 924,280; June 8; Sp. p. 2587; Gaz. vol. 143; p. 422.  
 Sharpneck, W. S. (See Sharpneck, E. L. and W. S.)  
 Shattuck, D. H., Westford, Mass. Boring-bar. No. 922,346; May 18; Sp. p. 4605; Gaz. vol. 142; p. 800.  
 Shattuck, W. P., Minneapolis, Minn., assignor of one-half to M. McVoy, Jr., New York, N. Y. Grip-tread for pneumatic tires. No. 913,674; Feb. 23; Sp. p. 5496; Gaz. vol. 139; p. 968.  
 Shaul, A. M., Meridian, Idaho. Incubator. No. 935,697; Oct. 5; Sp. p. 160; Gaz. vol. 147; p. 26.  
 Shaul, H. E., Pescadero, Cal. Combination-tool. No. 916,620; Mar. 30; Sp. p. 6034; Gaz. vol. 140; p. 1081.  
 Shaul, J. M., Lansing, Mich. Switch-point lock. No. 941,735; Nov. 30; Sp. p. 7235; Gaz. vol. 148; p. 1220.  
 Shaules, H. A., New York, N. Y. Amusement device. No. 933,790; Sept. 14; Sp. p. 1685; Gaz. vol. 146; p. 280.  
 Shavaler, J., Gosfield South, Ontario, assignor of one-half to G. Williamson, Kingsville, Canada. Railway alarm-signal. No. 911,769; Feb. 9; Sp. p. 1468; Gaz. vol. 139; p. 274.  
 Shaw, A. E., assignor to Pennsylvania Globe Gas Light Company of Philadelphia, Philadelphia, Pa. Street-light sign-holder. No. 914,195; Mar. 2; Sp. p. 1162; Gaz. vol. 140; p. 181.  
 Shaw, C. H., Denver, Colo. Water-feed, dust-laying, rock-drilling engine. No. 922,526; May 25; Sp. p. 4993; Gaz. vol. 142; p. 888.  
 Shaw, C. H., New York, N. Y. Hat-guard. No. 938,281; Oct. 26; Sp. p. 5603; Gaz. vol. 147; p. 958.  
 Shaw, C. L., Casa Grande, Ariz. Ter. Vehicle-wheel. No. 931,505; Aug. 17; Sp. p. 3963; Gaz. vol. 145; p. 683.  
 Shaw, C. M., assignor of one-half to A. B. Bowhay, Denver, Colo. Auxiliary handle for valises and bags. No. 910,238; Jan. 19; Sp. p. 3662; Gaz. vol. 138; p. 665.  
 Shaw, C. S., and J. M. Spellman, Salmon, Idaho. Shears. No. 915,491; Mar. 16; Sp. p. 3772; Gaz. vol. 140; p. 656.  
 Shaw, C. S., and J. M. Spellman, Salmon, Idaho. Saw-set. No. 937,651; Oct. 19; Sp. p. 4266; Gaz. vol. 147; p. 728.  
 Shaw, E. A., Los Angeles, Cal. Toy or ornament. No. 909,467; Jan. 12; Sp. p. 2088; Gaz. vol. 138; p. 372.  
 Shaw, E. C., assignor to B. F. Goodrich Company, Akron, Ohio. Vehicle-wheel rim. No. 910,733; Jan. 26; Sp. p. 4705; Gaz. vol. 138; p. 855.  
 Shaw, E. C., assignor to B. F. Goodrich Company, Akron, Ohio. Vehicle-wheel rim. No. 910,868; Jan. 26; Sp. p. 4980; Gaz. vol. 138; p. 898.  
 Shaw, E. C., assignor to B. F. Goodrich Company, Akron, Ohio. Vehicle-wheel rim. No. 910,869; Jan. 26; Sp. p. 4982; Gaz. vol. 138; p. 899.  
 Shaw, E. C., assignor to B. F. Goodrich Company, Akron, Ohio. Vehicle-wheel rim. No. 926,296; June 29; Sp. p. 6720; Gaz. vol. 143; p. 1185.  
 Shaw, E. C., assignor to B. F. Goodrich Company, Akron, Ohio. Vehicle-wheel rim. No. 927,687; July 13; Sp. p. 2054; Gaz. vol. 144; p. 357.  
 Shaw, F., Bishop Auckland, England. Wheel for road-vehicles. No. 923,205; June 1; Sp. p. 181; Gaz. vol. 143; p. 29.  
 Shaw, F., Whitefield, near Manchester, England. Dye-jigger. No. 937,652; Oct. 19; Sp. p. 4267; Gaz. vol. 147; p. 728.  
 Shaw, F., Seattle, Wash. Apparatus for hauling cable. No. 938,174; Oct. 26; Sp. p. 5394; Gaz. vol. 147; p. 921.  
 Shaw, F., Whitefield, near Manchester, England. Machine for pegging velvets and like pile fabrics. No. 943,167; Dec. 14; Sp. p. 2448; Gaz. vol. 149; p. 416.  
 Shaw, F. B. (See Shaw, R. and F. B.)  
 Shaw, F. E., assignor of one-half to J. F. Tredway and one-half to W. Klie, Columbus, Ohio. Roof-flashing. No. 917,167; Apr. 6; Sp. p. 420; Gaz. vol. 141; p. 73.  
 Shaw, F. H., Ironton, Ohio. Combination-receptacle. No. 932,910; Aug. 31; Sp. p. 6917; Gaz. vol. 145; p. 1189.  
 Shaw, H. C., Glenshaw, Pa. Annealing box and furnace. No. 935,275; Sept. 28; Sp. p. 4625; Gaz. vol. 146; p. 822.  
 Shaw, H. C., assignor to Bauer & Black, Chicago, Ill. Suspensory sack or pouch. No. 913,855; Mar. 2; Sp. p. 373; Gaz. vol. 140; p. 63.  
 Shaw, H. C., assignor to Bauer & Black, Chicago, Ill. Knit fabric having elastic selvages. No. 924,385; June 8; Sp. p. 2813; Gaz. vol. 143; p. 457.  
 Shaw, H. M., et al. (See Hahnke, R. C., assignor.)  
 Shaw, J., Fort Dodge, Iowa. Automobile-tire. No. 912,422; Feb. 16; Sp. p. 2889; Gaz. vol. 139; p. 524.  
 Shaw, J., Dauphin, Manitoba, Canada. Attachment to lathes for boring elliptical openings. No. 928,404; July 20; Sp. p. 3551; Gaz. vol. 144; p. 628.  
 Shaw, J. H., New Haven, Conn. Permanent mold. No. 926,965; July 6; Sp. p. 539; Gaz. vol. 144; p. 88.

*Alphabetical list of patentees—Continued.*

- Shaw, J. H., assignor to Sargent & Company, New Haven, Conn. Bracket for door checks and closers. No. 910,734; Jan. 26; Sp. p. 4706; Gaz. vol. 138; p. 855.
- Shaw, J. H., assignor to Sargent & Company, New Haven, Conn. Door-knob. No. 937,472; Oct. 19; Sp. p. 3930; Gaz. vol. 147; p. 668.
- Shaw, J. N. (See Carmichael, J. G. and B. B., assignors.)
- Shaw-Kendall Engineering Company. (See Vosper, W. W., assignor.)
- Shaw, L., Chicago, Ill. Goggle-valve for gas-mains. No. 931,506; Aug. 17; Sp. p. 3966; Gaz. vol. 145; p. 684.
- Shaw, L., Chicago, Ill. Water-sealed valve. No. 934,846; Sept. 21; Sp. p. 3765; Gaz. vol. 146; p. 653.
- Shaw, L., Chicago, Ill. Low-limit valve for gas-holders. No. 942,796; Dec. 7; Sp. p. 1572; Gaz. vol. 149; p. 258.
- Shaw, L. P., Bradford, Pa. Hair-pin. No. 913,061; Feb. 23; Sp. p. 4208; Gaz. vol. 139; p. 761.
- Shaw, N. T., Los Angeles, Cal. Electric switch or signal controlling apparatus. No. 916,039; Mar. 23; Sp. p. 4884; Gaz. vol. 140; p. 865.
- Shaw, O. C. (See Leavell, T. G., assignor.)
- Shaw, R. and F. B., Warsaw, Ind. Track-aligning apparatus. No. 916,040; Mar. 23; Sp. p. 4886; Gaz. vol. 140; p. 865.
- Shaw, R. W., Houlton, Me. Coin-holder. No. 912,423; Feb. 16; Sp. p. 2890; Gaz. vol. 139; p. 524.
- Shaw, S. J., Jr., and P. G. Yost, Ridgefield Park, N. J. Music-sheet turner. No. 922,527; May 25; Sp. p. 5001; Gaz. vol. 142; p. 889.
- Shaw, W., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Ventilated shoe. No. 908,507; Jan. 5; Sp. p. 151; Gaz. vol. 138; p. 27.
- Shaw, W., West Allis, Wis. Running-gear. No. 912,424; Feb. 16; Sp. p. 2891; Gaz. vol. 139; p. 524.
- Shaw, W. M., Greenville, Me. Sealing device. No. 917,805; Apr. 13; Sp. p. 1689; Gaz. vol. 141; p. 313.
- Shaw, W. M., Greenville, Me. Hoisting and conveying apparatus. No. 923,899; June 8; Sp. p. 1783; Gaz. vol. 143; p. 297.
- Shaw, W. M., Greenville, Me. Sash lock or fastener. No. 925,042; June 15; Sp. p. 4177; Gaz. vol. 143; p. 710.
- Shaw, W. M., Greenville, Me. Conveying apparatus. No. 931,892; Aug. 24; Sp. p. 4794; Gaz. vol. 145; p. 828.
- Shaw, W. U. G., and O. Johnson, La Fayette, assignors of one-third to V. McNeer, Wabash, Ind. Automatic brake system. No. 925,137; June 15; Sp. p. 4351; Gaz. vol. 143; p. 742.
- Shaw-Walker Company. (See Walker and Wilson, assignors.)
- Shawhan, J. E., Nevada, Mo. Shoe. No. 923,083; May 25; Sp. p. 6160; Gaz. vol. 142; p. 1069.
- Shay, R. C., Wilkinsburg, and F. P. Saleme, Altoona, Pa. Railway-tie and rail-fastener. No. 919,783; Apr. 27; Sp. p. 6036; Gaz. vol. 141; p. 1037.
- Shay, W. C., Cherrygrove, Pa. Wrench. No. 911,452; Feb. 2; Sp. p. 815; Gaz. vol. 139; p. 142.
- Shea, D. E., Watertown, N. Y. Anticrepper. No. 915,120; Mar. 16; Sp. p. 3034; Gaz. vol. 140; p. 535.
- Shea, D. J., Marianna, Ark. Spark-saw. No. 919,389; Apr. 27; Sp. p. 5208; Gaz. vol. 131; p. 903.
- Shea, J. G., Detroit, Mich. Drag-plug. No. 915,896; Mar. 23; Sp. p. 4615; Gaz. vol. 140; p. 818.
- Shea, J. J., Hartford, Conn., assignor to Hartford Rubber Works Company. Elastic connecting-strap. No. 941,659; Nov. 30; Sp. p. 7064; Gaz. vol. 148; p. 1194.
- Shea, J. S., Batchtown, Ill. Cistern and well pump casing. No. 923,302; June 1; Sp. p. 449; Gaz. vol. 143; p. 63.
- Sheafe, J. C. L. (See Wemple, G. W., assignor.)
- Sheafe, J. S., Chicago, Ill. Coupling-head. No. 922,347; May 18; Sp. p. 4606; Gaz. vol. 142; p. 801.
- Sheafe, J. S., Chicago, Ill. Locking air-cocks. No. 934,099; Sept. 14; Sp. p. 2306; Gaz. vol. 146; p. 378.
- Sheafor, W. O., Winnipeg, Manitoba, Canada. Chemical-closet. No. 944,001; Dec. 21; Sp. p. 4244; Gaz. vol. 149; p. 731.
- Sheak, A. G., assignor to Nineteen Hundred Washer Company, Binghamton, N. Y. Filter. No. 939,448; Nov. 9; Sp. p. 2225; Gaz. vol. 148; p. 370.
- Shearer, A., Frankfort, Kans., and L. Kirilin, Kansas City, Mo. Combined lister-plow and planter. No. 936,483; Oct. 12; Sp. p. 1874; Gaz. vol. 147; p. 310.
- Shearer, B. Y., *et al.* (See Jackson, C., assignor.)
- Shearer, J. E., assignor to California Clutch Co., San Francisco, Cal. Friction-clutch. No. 923,900; June 8; Sp. p. 1786; Gaz. vol. 143; p. 297.
- Shearer, W. L., *et al.* (See Jackson, C., assignor.)
- Shearman, T. J., Philadelphia, Pa. Hot-water heater. No. 922,051; May 18; Sp. p. 4036; Gaz. vol. 142; p. 705.
- Sheasby, W. H., assignor to Antifriction Journal Box Company, Los Angeles, Cal. Roller-bearing trolley. No. 913,240; Feb. 23; Sp. p. 4581; Gaz. vol. 139; p. 822.
- Sheatzley, J. W., and W. F. Hoefs, Milwaukee, Wis. Railway-tie and rail-fastener. No. 936,176; Oct. 5; Sp. p. 1209; Gaz. vol. 147; p. 183.
- Shebester, F. J., Lebanon, Okla. Insect-destroyer. No. 915,121; Mar. 16; Sp. p. 3035; Gaz. vol. 140; p. 536.
- Sheble, H., assignor to Hawthorne & Sheble Manufacturing Company, Philadelphia, Pa. Talking-machine mechanism. No. 912,425; Feb. 16; Sp. p. 2894; Gaz. vol. 139; p. 525.
- Sheckler, W. H., Wellsville, Ohio. Metallic railway-tie. No. 929,334; July 27; Sp. p. 5497; Gaz. vol. 144; p. 963.
- Shedd, H. E., Austin, Minn. Expansive file. No. 916,206; Mar. 23; Sp. p. 5186; Gaz. vol. 140; p. 918.
- Shedd, H. M., Roselle, N. J., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Motor-driven fan. No. 930,622; Aug. 10; Sp. p. 2057; Gaz. vol. 145; p. 370.
- Shedenhelm, R., Des Moines, Iowa. Mechanical movement. No. 925,138; June 15; Sp. p. 4352; Gaz. vol. 143; p. 742.
- Shee, P. E. (See Rote and Shee.)
- Shee, P. E., Lancaster, Pa. Cutlery-polisher. No. 936,371; Oct. 12; Sp. p. 1614; Gaz. vol. 147; p. 273.
- Shee, P. E., assignor to Royal Manufacturing Company, Lancaster, Pa. Drill-rest for grinding-machines. No. 927,757; July 13; Sp. p. 2193; Gaz. vol. 144; p. 380.
- Sheehan, E. J., assignor to San Gabriel Valley Fruit Products Company, New York, N. Y. Oleoresin of vanilla. No. 931,805; Aug. 24; Sp. p. 4621; Gaz. vol. 145; p. 801.
- Sheehan, T. C. (See Lamb and Sheehan.)
- Sheehy, H. W., Akron, Ohio. Fuse-box. No. 924,844; June 15; Sp. p. 3758; Gaz. vol. 143; p. 643.
- Sheeley, C. M., Grand Island, Nebr. Fire-escape. No. 924,695; June 15; Sp. p. 3445; Gaz. vol. 143; p. 592.
- Sheeley, C. M., assignor of one-fourth to C. C. Cornell and one-fourth to R. R. Horth, Grand Island, Nebr. Railway-tie. No. 930,096; Aug. 3; Sp. p. 999; Gaz. vol. 145; p. 162.
- Sheets, J., Green Bank, W. Va. Rail-joint. No. 926,297; June 29; Sp. p. 6726; Gaz. vol. 143; p. 1186.
- Sheets, N. R., and W. E. Barlow, said Sheets assignor to H. Collins, Wichita, Kans. Mail-box. No. 926,613; June 29; Sp. p. 7316; Gaz. vol. 143; p. 1291.
- Sheets, R. M., Tower, Minn. Composition for fire-kindlers. No. 930,803; Aug. 10; Sp. p. 2419; Gaz. vol. 145; p. 419.
- Sheff, W. (See Kantor and Sheff.)
- Sheffer, G. M., Emlenton, Pa. Rail-joint. No. 926,215; June 29; Sp. p. 6574; Gaz. vol. 143; p. 1161.
- Sheffield Car Company. (See Card, J. F., assignor.)
- Sheffield Car Company. (See Hovey, W. S., assignor.)
- Sheffield Car Company. (See Hovey and Rix, assignors.)
- Sheffield Car Company. (See Hovey and Stebbins, assignors.)
- Sheffield Car Company. (See Rose, H., assignor.)
- Sheffield Car Company. (See Stebbins, C. B., assignor.)
- Sheffield Car Company. (See Whitesell, F. N., assignor.)
- Sheffield, E. J., Cambridge, Mass. Barber's comb. No. 937,475; Oct. 19; Sp. p. 3941; Gaz. vol. 147; p. 669.
- Sheffield, G. P., Rochester, N. Y. Device for sharpening shears. No. 932,586; Aug. 31; Sp. p. 6263; Gaz. vol. 145; p. 1083.
- Sheffield, W. B., Kansas City, Mo. Automatic ink-distributor for printing-presses. No. 909,339; Jan. 12; Sp. p. 1845; Gaz. vol. 138; p. 331.
- Sheibley, B. F., and W. Moller, Lewistown, Pa. Cut-out attachment for internal-combustion engines. No. 922,528; May 25; Sp. p. 5006; Gaz. vol. 142; p. 889.
- Sheinberg, B., Pittsburg, Pa. Sash-cord fastener. No. 937,553; Oct. 19; Sp. p. 4098; Gaz. vol. 147; p. 697.
- Sheinman, F., New York, N. Y. Artificial tooth. No. 911,078; Feb. 2; Sp. p. 110; Gaz. vol. 139; p. 20.
- Shek, F. P., Brooklyn, N. Y. Rack. No. 924,386; June 8; Sp. p. 2814; Gaz. vol. 143; p. 457.
- Shelburne, J. O., Toledo, Ohio, assignor to R. C. Burton and C. J. Irish, Kellogg, Iowa. Ratchet-wrench. No. 921,290; May 11; Sp. p. 2449; Gaz. vol. 142; p. 426.
- Shelby Spring Hinge Co. (See Steele, H. W., assignor.) (Reissue.)
- Shelby, T. K. (See Goullee, G. F., assignor.)
- Sheldon, C. B. (See Waddell, A. F., assignor.)
- Sheldon, C. H., Kewanee, Ill. Egg-opener. No. 944,827; Dec. 28; Sp. p. 6037; Gaz. vol. 149; p. 1038.
- Sheldon, C. W. (See Monteith, Sheldon, and Smith.)
- Sheldon, E. P., assignor to R. Hoe, New York, N. Y. Sheet-piling device. No. 930,097; Aug. 3; Sp. p. 1000; Gaz. vol. 145; p. 162.
- Sheldon, F. M. (See Hill, B. W., assignor.)
- Sheldon, H. E., Pittsburg, Pa. Apparatus for bluing metal sheets. No. 932,587; Aug. 31; Sp. p. 6265; Gaz. vol. 145; p. 1083.
- Sheldon, H. E., Pittsburg, Pa. Bluing metal. No. 936,821; Oct. 12; Sp. p. 2544; Gaz. vol. 147; p. 425.
- Sheldon, L. M. (See Tubb and Sheldon.)
- Sheldon, R. S., West Allis, Wis. Combined force-pump and spray-tank. No. 921,010; May 11; Sp. p. 1861; Gaz. vol. 142; p. 330.



*Alphabetical list of patentees—Continued.*

- Sheldon, S. B., Buffalo, N. Y. Coking-oven. No. 933,349; Sept. 7; Sp. p. 711; Gaz. vol. 146; p. 111.
- Sheldrake, T. S., *et al.* (See Haynes, J., assignor.)
- Sheley, M. (See Barnard, T. V., assignor.)
- Shellenberger, J., Rome, Ga. Packing or shipping receptacle. No. 923,588; June 1; Sp. p. 1070; Gaz. vol. 143; p. 163.
- Shelley, J. H., New York, N. Y. Chain-manipulating tool. No. 942,356; Dec. 7; Sp. p. 686; Gaz. vol. 149; p. 111.
- Shelly, U. S., *et al.* (See Scott and Dilgard, assignors.)
- Shelton, J. F., Fort Worth, Tex. Stay-wire-applying tool. No. 917,168; Apr. 6; Sp. p. 422; Gaz. vol. 141; p. 74.
- Shelton, W. N. (See Small and Shelton.)
- Shelton, W. N., Boston, Mass. Adhesive repair device. No. 941,047; Nov. 23; Sp. p. 5745; Gaz. vol. 148; p. 970.
- Shenberg, P. I., assignor to Perfected Powder Puff Company, New York, N. Y. Powder-puff box. No. 921,899; May 18; Sp. p. 3725; Gaz. vol. 142; p. 656.
- Shenker, F. (See Larsen, C. C., assignor.)
- Shepard, A., Plantsville, assignor to H. Mann, Torrington, Conn. Savings-bank. No. 917,671; Apr. 6; Sp. p. 1375; Gaz. vol. 141; p. 242.
- Shepard, A., Plantsville, assignor to H. Mann, Torrington, Conn. Table upon which to open coin-receptacles. No. 917,672; Apr. 6; Sp. p. 1377; Gaz. vol. 141; p. 243.
- Shepard, A. D., San Francisco, Cal. Compound fuel. No. 914,523; Mar. 9; Sp. p. 1835; Gaz. vol. 140; p. 312.
- Shepard, C. H., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 912,327; Feb. 16; Sp. p. 2692; Gaz. vol. 139; p. 493.
- Shepard, C. H., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 934,100; Sept. 14; Sp. p. 2306; Gaz. vol. 146; p. 378.
- Shepard, C. H., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 932,644; Aug. 31; Sp. p. 6391; Gaz. vol. 145; p. 1103.
- Shepard, E. P., San Diego, Cal. Sound-modifier for talking-machines. No. 925,958; June 22; Sp. p. 6011; Gaz. vol. 143; p. 1038.
- Shepard, F. H., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic braking or signaling system. No. 910,590; Jan. 26; Sp. p. 4444; Gaz. vol. 138; p. 810.
- Shephard, G., assignor of two-thirds to J. N. White and J. H. Andrews, Petaluma, Cal. Phonograph horn attachment. No. 912,039; Feb. 9; Sp. p. 2076; Gaz. vol. 139; p. 361.
- Shephard, H. E., assignor of one-half to C. Gallery, Rochester, N. Y. Closure-removing device for receptacles. No. 939,641; Nov. 9; Sp. p. 2643; Gaz. vol. 148; p. 437.
- Shephard, H. W., New York, N. Y. Drier. No. 928,706; July 20; Sp. p. 4162; Gaz. vol. 144; p. 725.
- Shephard, H. W., assignor, by mesne assignments, of fifty-one one-hundredths to J. B. Baermann and H. A. Lloyd, New York, N. Y., and M. V. Lloyd, Cleveland, Ohio. Press. No. 921,011; May 11; Sp. p. 1863; Gaz. vol. 142; p. 330.
- Shephard, H. W., assignor to Atlantic Drier Company, New York, N. Y. Drier. No. 939,175; Nov. 2; Sp. p. 1551; Gaz. vol. 148; p. 251.
- Shepard, L. B., assignor to C. Chambers Inskeep Co., Cedar Rapids, Iowa. Sight for firearms. No. 944,916; Dec. 28; Sp. p. 6218; Gaz. vol. 149; p. 1069.
- Shepard, O. F., Jr., assignor to Warner Elevator Manufacturing Co., Cincinnati, Ohio. Controller for electric motors. No. 936,952; Oct. 12; Sp. p. 2800; Gaz. vol. 147; p. 468.
- Shepard, S. D., Washington, D. C. Drafting-pen. No. 923,717; June 1; Sp. p. 1329; Gaz. vol. 143; p. 206.
- Shepard, W. L., Elmwood, assignor of one-half to H. J. Wickham, Manchester, Conn. Apparatus for producing fuel and gas from peat. No. 936,049; Oct. 5; Sp. p. 954; Gaz. vol. 147; p. 143.
- Shepard, W. L., Elmwood, assignor of one-half to H. J. Wickham, Manchester, Conn. Machine for condensing peat. No. 940,944; Nov. 23; Sp. p. 5528; Gaz. vol. 148; p. 936.
- Shepard, W. L., Elmwood, and H. J. Wickham, Manchester, Conn. Fuel-producer. No. 940,945; Nov. 23; Sp. p. 5529; Gaz. vol. 148; p. 936.
- Shephard, E. A. (See Morganstern and Shephard.)
- Shephard, W. H., Portsmouth, Va. Water-distilling apparatus. No. 935,932; Oct. 5; Sp. p. 712; Gaz. vol. 147; p. 104.
- Shepherd, A. P., Chicago, Ill. Clothes-drainer. No. 916,041; Mar. 23; Sp. p. 4887; Gaz. vol. 140; p. 865.
- Shepherd, D. W. (See Jones and Shepherd.)
- Shepherd, E. (See Hauser and Shepherd.)
- Shepherd, G. C., New York, N. Y., assignor to Office Specialties De Luxe, Worcester, Mass. Temporary binder. No. 920,780; May 4; Sp. p. 1391; Gaz. vol. 142; p. 225.
- Shepherd, G. C., New York, N. Y., assignor to Office Specialties De Luxe, Worcester, Mass. Temporary binder. No. 921,469; May 11; Sp. p. 2830; Gaz. vol. 142; p. 486.
- Shepherd, J. (See Shepherd, J., assignor.)
- Shepherd, J., assignor of one-half to J. Shepherd, Chicago, Ill. Trolley. No. 920,674; May 4; Sp. p. 1190; Gaz. vol. 142; p. 191.
- Shepherd, J. E. (See Nolen, J. G., assignor.)
- Shepherd, J. E. (See Nolen and Shepherd.)
- Shepherd, J. E., Chicago, Ill. Fire-protection and signal system. No. 941,048; Nov. 23; Sp. p. 5746; Gaz. vol. 148; p. 970.
- Shepherd, J. S., Vinton, Va. Mail-bag catcher. No. 922,203; May 18; Sp. p. 4342; Gaz. vol. 142; p. 755.
- Shepherd, L. V., Los Angeles, Cal. Square. No. 909,694; Jan. 12; Sp. p. 2541; Gaz. vol. 138; p. 451.
- Shepler, C. B. (See Milliron, O. R., assignor.)
- Sheppard, F., El Dorado, Ark. House-leveling instrument. No. 921,470; May 11; Sp. p. 2833; Gaz. vol. 142; p. 486.
- Sheppard, J., deceased, (M. L. Sheppard, Islington, executrix,) and B. Chatterton, London, England; said M. L. Sheppard assignor to said Chatterton. Fire-extinguishing installation. No. 920,885; May 4; Sp. p. 1622; Gaz. vol. 142; p. 259.
- Sheppard, J. M., Kelly, Okla. Valve-operating mechanism for presses. No. 908,616; Jan. 5; Sp. p. 390; Gaz. vol. 138; p. 63.
- Sheppard, M. L., executrix. (See Sheppard and Chatterton.)
- Sheppard, W., Paterson, N. J., assignor to American Locomotive Company, New York, N. Y. Bolster for steam-shovels. No. 934,941; Sept. 21; Sp. p. 3955; Gaz. vol. 146; p. 686.
- Sheppard, W. H., Worcester, Mass. Counter-controlling mechanism. No. 916,042; Mar. 23; Sp. p. 4887; Gaz. vol. 140; p. 865.
- Sheppy, C. L. (See Ferguson and Sheppy.)
- Sheppy, F., Chicago, Ill., assignor, by mesne assignments, to Hawthorne & Sheble Manufacturing Company, Philadelphia, Pa. Feeding device and brake for sound-reproducing machines. No. 929,253; July 27; Sp. p. 5270; Gaz. vol. 144; p. 934.
- Sherardizing Syndicate. (See Gauntlett, F. W., assignor.)
- Sherbondy, E. H., Cleveland, Ohio. Clutch. No. 912,741; Feb. 16; Sp. p. 3595; Gaz. vol. 139; p. 634.
- Sherburne, C. W., Boston, Mass. Valve. No. 944,286; Dec. 28; Sp. p. 4527; Gaz. vol. 149; p. 852.
- Sherley & Kidd Company. (See Holland and Kidd, assignors.)
- Sheridan, J. S. (See Schlappich, Ward, and Sheridan.)
- Sheridan, L., Scranton, Pa. Umbrella. No. 925,043; June 15; Sp. p. 4179; Gaz. vol. 143; p. 711.
- Sheridan, R. B., Knoxville, Tenn. Carriage and wagon running-gear. No. 912,189; Feb. 9; Sp. p. 2362; Gaz. vol. 139; p. 408.
- Sheriff, J. E. (See Henderson and Sheriff.)
- Sherk, A. G., Newark, N. J. Pleasure-railway. No. 922,052; May 18; Sp. p. 4037; Gaz. vol. 142; p. 706.
- Sherlock, J. T. (See Carter, G. H., assignor.)
- Sherman, A. G., Detroit, Mich. Gas-cock. No. 916,043; Mar. 23; Sp. p. 4890; Gaz. vol. 140; p. 866.
- Sherman, B. C., Chicago, Ill. Shaft-tug. No. 934,468; Sept. 21; Sp. p. 3023; Gaz. vol. 146; p. 527.
- Sherman, C. W., Bellevue, Pa. Casting plant. No. 938,904; Nov. 2; Sp. p. 1003; Gaz. vol. 148; p. 158.
- Sherman, D. H., Los Angeles, Cal. Agitator. No. 912,628; Feb. 16; Sp. p. 3325; Gaz. vol. 139; p. 595.
- Sherman, E. C. and W. W. McKelvey, assignors to William B. Pollock Company, Youngstown, Ohio. Dumping-car. (Reissue.) No. 12,988; July 13; Sp. p. 3174; Gaz. vol. 144; p. 541.
- Sherman, F. G., Chicago, Ill. Interchangeable rubber heel. No. 944,287; Dec. 28; Sp. p. 4828; Gaz. vol. 149; p. 852.
- Sherman, G. S., Great Neck, N. Y. Lamp attachment for vehicles. No. 933,350; Sept. 7; Sp. p. 713; Gaz. vol. 146; p. 111.
- Sherman, G. W., New York, N. Y. Power-transmission mechanism for motor-cycles and other vehicles. No. 922,634; May 25; Sp. p. 5228; Gaz. vol. 142; p. 925.
- Sherman, H. A., Van Vleet, Tex. Dirt-tamping tool. No. 940,370; Nov. 16; Sp. p. 4281; Gaz. vol. 148; p. 719.
- Sherman, J. C., Brookline, Mass. Toilet composition. No. 933,395; Sept. 7; Sp. p. 816; Gaz. vol. 146; p. 126.
- Sherman, J. J., Jr., Chicago, Ill. Chair. No. 913,062; Feb. 23; Sp. p. 4209; Gaz. vol. 139; p. 762.
- Sherman, L. A., Detroit, Mich. Railway-car door or gate. No. 925,139; June 15; Sp. p. 4354; Gaz. vol. 143; p. 743.
- Sherman, L. A., Kansas City, Mo. Cartridge-shell. No. 937,188; Oct. 19; Sp. p. 3307; Gaz. vol. 147; p. 575.
- Sherman, L. P., assignor of one-half to R. H. Ingersoll, Biddeford, Me. Picker-stick mechanism for looms. No. 939,560; Nov. 9; Sp. p. 2455; Gaz. vol. 148; p. 407.
- Sherman, M. B., Payette, Idaho. Raspberry-cleaner. No. 921,291; May 11; Sp. p. 2451; Gaz. vol. 142; p. 427.
- Sherman, M. B., Payette, Idaho. Cutter for raspberry and similar stalks. No. 922,629; May 25; Sp. p. 5009; Gaz. vol. 142; p. 890.
- Sherman, M. L., Lohn, Tex. Urinal. No. 940,077; Nov. 16; Sp. p. 3620; Gaz. vol. 148; p. 617.
- Sherman, O. G., Chicago, Ill. Pocket-scale. No. 917,169; Apr. 6; Sp. p. 423; Gaz. vol. 141; p. 74.

*Alphabetical list of patentees—Continued.*

- Sherman, P. B., Cleveland, Ohio. Garment. No. 939,871; Nov. 9; Sp. p. 3120; Gaz. vol. 148; p. 515.  
 Sherman, P. F., Lynn, Mass. Shoe-shank. No. 931,965; Aug. 24; Sp. p. 4982; Gaz. vol. 145; p. 853.  
 Sherman, W. S., Milwaukee, Wis. End-matcher. No. 930,421; Aug. 10; Sp. p. 1607; Gaz. vol. 145; p. 291.  
 Sherman, W. S., assignor to Sift Feed Oil Pump Company, Milwaukee, Wis. Motor for oil-pumps and the like. No. 909,952; Jan. 19; Sp. p. 3075; Gaz. vol. 138; p. 569.  
 Shero, I. K., Okemah, Okla. Hair-straightener. No. 943,321; Dec. 14; Sp. p. 2766; Gaz. vol. 149; p. 467.  
 Sherow, L. M., Ossining, N. Y. Photograph-print washer. No. 926,144; June 29; Sp. p. 6398; Gaz. vol. 143; p. 1136.  
 Sherren, W., and T. Mason, assignors to A. Denius, Marion, Ind. Elevator. No. 909,695; Jan. 12; Sp. p. 2542; Gaz. vol. 138; p. 451.  
 Sherrer, W. G., New York, N. Y., assignor to Sales Department, E. P. Gleason Manufacturing Company. Safety-globe and guard. No. 940,899; Nov. 23; Sp. p. 5433; Gaz. vol. 148; p. 920.  
 Sherrerd, J. M. (See Exton and Sherrerd.)  
 Sherry, J., Rochester, N. Y. Lubricator. No. 924,588; June 8; Sp. p. 3196; Gaz. vol. 143; p. 523.  
 Sherwin, I. S., Chattanooga, Tenn. Window-shade holder. No. 916,375; Mar. 23; Sp. p. 5494; Gaz. vol. 140; p. 975.  
 Sherwood, A. G., Philadelphia, Pa. Duplicating attachment for type-writing machines. No. 925,140; June 15; Sp. p. 4356; Gaz. vol. 143; p. 743.  
 Sherwood, E., Honesdale, Pa. Fuse-box. No. 929,506; July 27; Sp. p. 5795; Gaz. vol. 144; p. 1017.  
 Sherwood, G. R., Oak Park, Ill. Separator. No. 927,885; July 13; Sp. p. 2468; Gaz. vol. 144; p. 22.  
 Sherwood, H. B. (See Blankenship and Sherwood.)  
 Sherwood, L. E., Chelan, Wash. Axle-lubricator. No. 911,910; Feb. 9; Sp. p. 1725; Gaz. vol. 139; p. 319.  
 Sherwood, W. H., New York, N. Y. Vibration-absorbing foot. No. 943,709; Dec. 21; Sp. p. 3623; Gaz. vol. 149; p. 631.  
 Sheward, A. T., assignor to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Dust collector and separator. No. 940,827; Nov. 23; Sp. p. 5289; Gaz. vol. 148; p. 897.  
 Sheward, R. L., Council Bluffs, Iowa. Weedless tandem bait-casting hook. No. 915,707; Mar. 16; Sp. p. 4240; Gaz. vol. 140; p. 730.  
 Sheward, R. L., Council Bluffs, Iowa. Fish-hook. No. 918,206; Apr. 13; Sp. p. 2534; Gaz. vol. 141; p. 452.  
 Shibe, B. F., Bala, Pa. Base-ball. No. 924,696; June 15; Sp. p. 3447; Gaz. vol. 143; p. 593.  
 Shibe, B. F., Bala, Pa. Base-ball. No. 932,911; Aug. 31; Sp. p. 6918; Gaz. vol. 145; p. 1189.  
 Shideman, A. A., *et al.* (See Connell, W. B., assignor.)  
 Shiek, E. F. (See Muenchinger, P. G., assignor.)  
 Shiel, J. F., Seymour, Ind. Beaded line. No. 925,237; June 15; Sp. p. 4544; Gaz. vol. 143; p. 776.  
 Shield, O. A., *et al.* (See Jackson, J. E., assignor.)  
 Shields, A., Greenville, Miss. Dispensing-pump. No. 929,990; Aug. 3; Sp. p. 783; Gaz. vol. 145; p. 125.  
 Shields, D., Edgeworth borough, Pa. Manufacture of fertilizers. No. 913,922; Mar. 2; Sp. p. 544; Gaz. vol. 140; p. 88.  
 Shields, G. W., and B. Webster, Louisville, Ky. Valve. No. 911,546; Feb. 2; Sp. p. 992; Gaz. vol. 139; p. 173.  
 Shields, H. A., assignor to S. C. F. Machinery Company, Nashville, Mich. Machine for folding tubular knit fabrics. No. 915,229; Mar. 16; Sp. p. 3260; Gaz. vol. 140; p. 570.  
 Shields, J. F. (See Boulton, C. W., assignor.)  
 Shields, L., and B. Ace, Nicholson, Pa. Grappling device. No. 911,684; Feb. 9; Sp. p. 1320; Gaz. vol. 139; p. 245.  
 Shields, W. H., Cottesloe, Western Australia, Australia. Arched construction of weirs and other retaining-walls. No. 927,290; July 6; Sp. p. 1204; Gaz. vol. 144; p. 198.  
 Shields, W. S., and J. W. Cox, Chicago, Ill., assignors to said Shields. Liquid-controller. No. 909,340; Jan. 12; Sp. p. 1847; Gaz. vol. 138; p. 331.  
 Shiels, W. E. (See Wagner and Shiels.)  
 Shier, A., Lansing, Mich. Convertible table. No. 918,780; Apr. 20; Sp. p. 3776; Gaz. vol. 141; p. 670.  
 Shifley, I. J., Chicago, Ill. Machine for working sheet metal. No. 909,341; Jan. 12; Sp. p. 1850; Gaz. vol. 138; p. 332.  
 Shill, P. R., Leytonstone, assignor of one-fourth to C. W. Bluemel, one-fourth to F. H. Bluemel, and one-fourth to E. A. Bluemel, Wolston, England. Pneumatic-despatch system. No. 939,872; Nov. 9; Sp. p. 3121; Gaz. vol. 148; p. 515.  
 Shillin, F., Sundby, Minn. Car-stake. No. 930,623; Aug. 10; Sp. p. 2059; Gaz. vol. 145; p. 361.  
 Shilling, M. D., New Castle, Pa. Shock-absorber for vehicle-springs. No. 921,471; May 11; Sp. p. 2834; Gaz. vol. 142; p. 487.  
 Shiman Miller Manufacturing Company. (See Morris, E., assignor.)  
 Shiman-Miller Mfg. Co. (See Ball, C. C., assignor.)  
 Shimer, M. J., Bethlehem, Pa. Score-board. No. 918,207; Apr. 13; Sp. p. 2535; Gaz. vol. 141; p. 452.  
 Shimer, M. J., Bethlehem, Pa. Pistol. No. 944,107; Dec. 21; Sp. p. 4456; Gaz. vol. 149; p. 767.  
 Shimer, P. W., Easton, Pa. Crucible. No. 928,552; July 20; Sp. p. 3848; Gaz. vol. 144; p. 674.  
 Shimmel, N. J., Summerville, Pa. Miter-box. No. 914,196; Mar. 2; Sp. p. 1163; Gaz. vol. 140; p. 182.  
 Shimura, S., and Y. Minagawa, Tokyo, Japan. Molding tooth-crowns and the like. No. 909,696; Jan. 12; Sp. p. 2544; Gaz. vol. 138; p. 451.  
 Shindlbower, G. W. and P., assignors to S. D. Cruse, Louisville, Ky. Display-rack for rugs. No. 916,496; Mar. 30; Sp. p. 5783; Gaz. vol. 140; p. 1041.  
 Shindlbower, P. (See Shindlbower, G. W. and P.)  
 Shinn, H., Eaton, Ohio. Tobacco-spear machine. No. 933,127; Sept. 7; Sp. p. 186; Gaz. vol. 146; p. 32.  
 Shinn, J. B., Levering, Mich. Sliding-door fastener. No. 917,969; Apr. 13; Sp. p. 2036; Gaz. vol. 141; p. 370.  
 Shinnamon, W. H., Brooklyn, N. Y. Show-case. No. 920,193; May 4; Sp. p. 203; Gaz. vol. 142; p. 32.  
 Shipley, D. E. (See Board, I. D., assignor.)  
 Shipley, G. B., assignor to Allis-Chalmers Company, Milwaukee, Wis. Jig. No. 919,258; Apr. 20; Sp. p. 4911; Gaz. vol. 141; p. 824.  
 Shipley, G. B., assignor to Allis-Chalmers Company, Milwaukee, Wis. Safety journal-box. No. 923,718; June 1; Sp. p. 1330; Gaz. vol. 143; p. 207.  
 Shipley, G. B., assignor to Allis-Chalmers Company, Milwaukee, Wis. Vanner. No. 924,589; June 8; Sp. p. 3198; Gaz. vol. 143; p. 523.  
 Shipley, T., York, Pa. Gas-compressor. No. 930,567; Aug. 10; Sp. p. 1940; Gaz. vol. 145; p. 342.  
 Shipman, B. C., Baltimore, Md. Winding of armatures for alternating-current motors. No. 931,150; Aug. 17; Sp. p. 3224; Gaz. vol. 145; p. 562.  
 Shipman, E. S., North Braddock, Pa. Mail-bag holder. No. 932,912; Aug. 31; Sp. p. 6919; Gaz. vol. 145; p. 1189.  
 Shipman, J. L., W. L. Bankston, and J. P. Shipman, Mounds, Okla. Grain-header attachment for threshing-machines. No. 934,847; Sept. 21; Sp. p. 3768; Gaz. vol. 146; p. 653.  
 Shipman, J. P. (See Shipman, Bankston, and Shipman.)  
 Shipp, E. M., New York, N. Y. Mail-box. No. 920,194; May 4; Sp. p. 205; Gaz. vol. 142; p. 32.  
 Shipp, E. M., Bremerton, Wash. Bath-tub attachment. No. 937,476; Oct. 19; Sp. p. 3942; Gaz. vol. 147; p. 669.  
 Shipp, N. W., Salem, Oreg. Lamp-bracket. No. 937,875; Oct. 26; Sp. p. 4748; Gaz. vol. 147; p. 821.  
 Shipp, S. A., and L. Lund, assignors to Automatic Disinfecting Co., Minneapolis, Minn. Disinfecting device. No. 915,629; Mar. 16; Sp. p. 4071; Gaz. vol. 140; p. 703.  
 Shippey, G. E., Pittsfield, Mass. Shock-absorber. No. 930,498; Aug. 10; Sp. p. 1756; Gaz. vol. 145; p. 317.  
 Shiray, L. E., and E. J. W. De Forest, Robinson, Ill. Coupling for oil-well power-transmitting mechanism. No. 928,805; July 20; Sp. p. 4349; Gaz. vol. 144; p. 758.  
 Shirley, C. I., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Roller-bearing. No. 924,387; June 8; Sp. p. 2816; Gaz. vol. 143; p. 458.  
 Shirley, C. I., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Detachable lining for roller-bearing casings. No. 926,966; July 6; Sp. p. 540; Gaz. vol. 144; p. 88.  
 Shirley, C. I., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Outboard-bearing for boring-spindles. No. 936,576; Oct. 12; Sp. p. 2059; Gaz. vol. 147; p. 341.  
 Shissler, H. O., Des Moines, Iowa. Trolley-wire switch. No. 928,157; July 13; Sp. p. 2991; Gaz. vol. 144; p. 757.  
 Shive, C. C. (See Hampton and Shive.)  
 Shively, E., Etna Green, Ind. Hog-ranger. No. 911,770; Feb. 9; Sp. p. 1470; Gaz. vol. 139; p. 274.  
 Shively, J. B. (See Scott, F., assignor.)  
 Shiverick, M. D., assignor to W. E. Milbank, Albany, N. Y. Coating or enameling apparatus. No. 921,292; May 11; Sp. p. 2452; Gaz. vol. 142; p. 427.  
 Shivers, L. B., Anglesea, N. J. Ignition-timer. No. 911,527; Feb. 2; Sp. p. 962; Gaz. vol. 139; p. 167.  
 Shoals, W. G., assignor to Coalecon Company, Rochester, N. Y. Stove. No. 944,154; Dec. 21; Sp. p. 4558; Gaz. vol. 149; p. 782.  
 Shock & Hay Loader Co. (See Battee, H. S., assignor.)  
 Shoemaker, A. H., assignor of one-half to W. I. Ewart, Seattle, Wash. Therapeutical apparatus. No. 911,528; Feb. 2; Sp. p. 965; Gaz. vol. 139; p. 168.  
 Shoemaker, F., Waterloo, Iowa. Door-operating appliance. No. 922,530; May 25; Sp. p. 5010; Gaz. vol. 142; p. 890.  
 Shoemaker, F. A. (See Chapman and Shoemaker.)  
 Shoemaker, F. A., assignor to J. Sturdy, Buffalo, N. Y., and J. Sturdy, Crafton, Pa. Steam-boiler furnace. No. 938,022; Oct. 26; Sp. p. 5054; Gaz. vol. 147; p. 869.



*Alphabetical list of patentees—Continued.*

- Shoemaker, G. A., assignor of one-half to G. Van Wagnen, Urbana, Va. Train signaling apparatus. No. 923,719; June 1; Sp. p. 1331; Gaz. vol. 143; p. 207.
- Shoemaker, G. A., and E. C. Holland, Benton Harbor, Mich., assignors to Metal Sectional Furniture Company, Portland, Me. Temporary binder. No. 921,012; May 11; Sp. p. 1367; Gaz. vol. 142; p. 331.
- Shoemaker, G. C., Washington, D. C., assignor to Jackson Cushion Spring Company, Jackson, Mich. Spring construction. No. 935,933; Oct. 5; Sp. p. 714; Gaz. vol. 147; p. 105.
- Shoemaker, H., Jersey City, N. J. Hydro-condenser. No. 921,014; May 11; Sp. p. 1870; Gaz. vol. 142; p. 332.
- Shoemaker, H., Jersey City, N. J. Transmitting apparatus. No. 921,293; May 11; Sp. p. 2454; Gaz. vol. 142; p. 427.
- Shoemaker, H., Jersey City, N. J. Transmitting apparatus. No. 926,900; July 6; Sp. p. 401; Gaz. vol. 144; p. 65.
- Shoemaker, H., Jersey City, N. J. Transmitting apparatus. No. 927,433; July 6; Sp. p. 1475; Gaz. vol. 144; p. 244.
- Shoemaker, H., Jersey City, assignor to International Telegraph Construction Company. Transmitting apparatus. No. 918,208; Apr. 13; Sp. p. 2537; Gaz. vol. 141; p. 452.
- Shoemaker, H., Jersey City, N. J., assignor to International Telegraph Construction Company. Transmitting apparatus. No. 921,013; May 11; Sp. p. 1869; Gaz. vol. 142; p. 331.
- Shoemaker, H., Jersey City, N. J., assignor to International Telegraph Construction Company. Oscillimeter. No. 932,819; Aug. 31; Sp. p. 6761; Gaz. vol. 145; p. 1159.
- Shoemaker, H., Jersey City, N. J., assignor to International Telegraph Construction Company. Transmitting apparatus. No. 932,820; Aug. 31; Sp. p. 6763; Gaz. vol. 145; p. 1160.
- Shoemaker, H., Jersey City, N. J., assignor to International Telegraph Construction Company. Telephone and telegraph transmitting apparatus. No. 932,821; Aug. 31; Sp. p. 6767; Gaz. vol. 145; p. 1160.
- Shoemaker, H., Jersey City, N. J., assignor to International Telegraph Construction Company. Receiving apparatus. No. 932,913; Aug. 31; Sp. p. 6920; Gaz. vol. 145; p. 1189.
- Shoemaker, H., and F. W. Midgley, Jersey City, N. J. Coated article and making same. No. 928,074; July 13; Sp. p. 2845; Gaz. vol. 144; p. 485.
- Shoemaker, H., and F. W. Midgley, Jersey City, N. J. Electrical condenser and making same. No. 928,224; July 13; Sp. p. 3144; Gaz. vol. 144; p. 535.
- Shoffner, E. J., Roanoke, Va. Cushioned-guard-rail fastening. No. 919,965; Apr. 27; Sp. p. 6421; Gaz. vol. 141; p. 1097.
- Shogran, L., Kansas City, Kans. Artificial-flower-making device. No. 943,796; Dec. 21; Sp. p. 3793; Gaz. vol. 149; p. 661.
- Sholar, E. H., assignor to Volunteer Disc Plow Company, Chattanooga, Tenn. Reversible disk plow. No. 941,818; Nov. 30; Sp. p. 7425; Gaz. vol. 148; p. 1248.
- Sholar, E. H., and W. W. Pace, assignors to Volunteer Disc Plow Co., Chattanooga, Tenn. Disk plow. No. 941,817; Nov. 30; Sp. p. 7419; Gaz. vol. 148; p. 1248.
- Sholes, F., Chicago, Ill. Ribbon mechanism for type-writers. No. 929,030; July 27; Sp. p. 4815; Gaz. vol. 144; p. 861.
- Sholes, L., Milwaukee, Wis. Type-writing machine. No. 936,050; Oct. 5; Sp. p. 958; Gaz. vol. 147; p. 143.
- Sholes, Z. G., New York, N. Y., assignor to West Disinfecting Company. Interior container for drip-disinfectors. No. 908,508; Jan. 5; Sp. p. 153; Gaz. vol. 138; p. 27.
- Sholes, Z. G., New York, N. Y., assignor to West Disinfecting Company. Vaporizer. No. 929,254; July 27; Sp. p. 5272; Gaz. vol. 144; p. 935.
- Sholes, Z. G., assignor to E. Crowell, New York, N. Y. Stamp-vending machine. No. 935,062; Sept. 28; Sp. p. 4199; Gaz. vol. 146; p. 752.
- Shönberg, I., New York, N. Y. Type-casting machine. No. 920,195; May 4; Sp. p. 206; Gaz. vol. 142; p. 32.
- Shönberg, I., New York, N. Y. Casting apparatus. No. 937,477; Oct. 19; Sp. p. 3943; Gaz. vol. 147; p. 670.
- Shonfelt, W. D., and R. Vaughan, Sacramento, Cal. Collapsible boiler-plug. No. 927,688; July 13; Sp. p. 2055; Gaz. vol. 144; p. 357.
- Shonnard, H. W., East Orange, N. J., and W. Dieter, New York, assignors to E. W. Bliss Company, Brooklyn, N. Y. Air-heater for compressed-air engines. No. 927,434; July 6; Sp. p. 1477; Gaz. vol. 144; p. 245.
- Shontz, F. A., Eureka, Utah. Rabbit-plane. No. 932,417; Aug. 24; Sp. p. 5873; Gaz. vol. 145; p. 1003.
- Shook, R. H., assignor to B. F. Biggs Pump Company, La Fayette, Ind. Kitchen-cabinet. No. 924,196; June 8; Sp. p. 2412; Gaz. vol. 143; p. 393.
- Shook, R. H., assignor to B. F. Biggs Pump Company, La Fayette, Ind. Kitchen-cabinet. No. 924,197; June 8; Sp. p. 2413; Gaz. vol. 143; p. 394.
- Shoop, J. O., Winfield, Kans. Gas-burner. No. 933,676; Sept. 7; Sp. p. 1450; Gaz. vol. 146; p. 219.
- Shoptaw, C., Beaumont, Tex. Rotating steam-feed for sawmill-carriages. No. 932,914; Aug. 31; Sp. p. 6921; Gaz. vol. 145; p. 1190.
- Short, E. L., assignor of one-fifth to A. Pickford, Mildura, Victoria, Australia. Nidus for aerobic bacteria applicable to closets and urinals. No. 930,319; Aug. 3; Sp. p. 1401; Gaz. vol. 145; p. 233.
- Short, J. W., Geneva, N. Y. Syringe. No. 942,015; Nov. 30; Sp. p. 7808; Gaz. vol. 148; p. 1315.
- Short, O. W., Seaford, Del. Postal-card holder. No. 917,170; Apr. 6; Sp. p. 424; Gaz. vol. 141; p. 74.
- Short, R. L., Fostoria, assignor, by mesne assignments, to Toledo Gas Floor Furnace Company, Toledo, Ohio. Hot-air heater. No. 919,966; Apr. 27; Sp. p. 6423; Gaz. vol. 141; p. 1097.
- Short, R. L., Fostoria, Ohio, assignor, by mesne assignments, to H. S. and C. C. Linhart. Hot-air heater. No. 933,128; Sept. 7; Sp. p. 189; Gaz. vol. 146; p. 32.
- Short, W. A. D., assignor to Continental Signal Company, Chicago, Ill. Electric railway-signal. No. 923,901; June 8; Sp. p. 1787; Gaz. vol. 143; p. 298.
- Short, W. C., Los Angeles, Cal. Brick-press. No. 943,797; Dec. 21; Sp. p. 3799; Gaz. vol. 149; p. 661.
- Short, W. J., Quincy, Ill. Ditching and grading machine. No. 935,240; Sept. 28; Sp. p. 4555; Gaz. vol. 146; p. 810.
- Short, W. I., Bluefield, W. Va., and W. I. Cooley, Graham, Va. Balance-valve for stand-pipes. No. 909,697; Jan. 12; Sp. p. 2545; Gaz. vol. 138; p. 452.
- Shortt, P. E., Floyd, Va. Combination-tool. No. 921,171; May 11; Sp. p. 2191; Gaz. vol. 142; p. 386.
- Shotwell, C. M., Fossil, Wyo. Bolster and standard for wagons. No. 912,190; Feb. 9; Sp. p. 2364; Gaz. vol. 139; p. 409.
- Shotwell, H. I., and W. McComb, Wenatchee, Wash. Alarm for irrigating-ditches. No. 933,856; Sept. 14; Sp. p. 1826; Gaz. vol. 146; p. 302.
- Shoultz, E., Guernsey, Wyo. Top-prop. No. 917,171; Apr. 6; Sp. p. 425; Gaz. vol. 141; p. 74.
- Shoup, C. H., Corbin, Kans. Animal-trap. No. 934,469; Sept. 21; Sp. p. 3024; Gaz. vol. 146; p. 527.
- Shoup, J. (See Tichenor and Shoup.)
- Shoup, S. R., Hoboken, N. J. Voting-machine. No. 932,915; Aug. 31; Sp. p. 6923; Gaz. vol. 145; p. 1190.
- Shover, B. R., Chicago, Ill., assignor to Electric Storage Battery Company, Philadelphia, Pa. System of electrical distribution. No. 921,630; May 11; Sp. p. 3160; Gaz. vol. 142; p. 540.
- Showell, C. P., Starchley, England. Manufacturing bull-rings. No. 913,651; Feb. 23; Sp. p. 5456; Gaz. vol. 139; p. 961.
- Shrapnel, H. J., Brixton, England. Mud-guard for vehicles. No. 935,276; Sept. 28; Sp. p. 4627; Gaz. vol. 146; p. 822.
- Shraud, G. A., Blue Island, Ill. Collapsible box or crate. No. 940,371; Nov. 16; Sp. p. 4282; Gaz. vol. 148; p. 719.
- Shredded Wheat Company. (See Wallace and Meyer, assignors.)
- Shreeve, H. E., Wyoming, N. J., assignor to American Telephone and Telegraph Company. Mounting for telephone instruments. No. 931,231; Aug. 17; Sp. p. 3407; Gaz. vol. 145; p. 591.
- Shreeve, H. E., Wyoming, N. J., assignor to American Telephone and Telegraph Company. Telephone repeating system. No. 937,189; Oct. 19; Sp. p. 3308; Gaz. vol. 147; p. 575.
- Shreffler, W. E., Mulberry, Ind. Acetylene-gas generator. No. 909,698; Jan. 12; Sp. p. 2546; Gaz. vol. 138; p. 452.
- Shreiner, E. M., Canton, Ohio. Bill-file. No. 920,402; May 4; Sp. p. 632; Gaz. vol. 142; p. 101.
- Shreve, C. E., Atlantic City, N. J. Milk-pail. No. 940,372; Nov. 16; Sp. p. 4286; Gaz. vol. 148; p. 720.
- Shreve, H. B., Galesburg, Ill. Clothes-line holder. No. 925,238; June 15; Sp. p. 4545; Gaz. vol. 143; p. 776.
- Shrewsbury, R. W., London, England. Apparatus for transport of material. No. 920,196; May 4; Sp. p. 210; Gaz. vol. 142; p. 33.
- Shriner, R. L., New York, N. Y., assignor to Standard Stopper Company, Jersey City, N. J. Bottle-capping machine. No. 938,612; Nov. 2; Sp. p. 384; Gaz. vol. 148; p. 57.
- Shróder, C., and J. Christiansen, Luck, Wis. Fish-iron. No. 911,167; Feb. 2; Sp. p. 286; Gaz. vol. 139; p. 60.
- Shroyer, S. T., Bellefontaine, Ohio. Safety-check for automatic couplings. No. 922,348; May 18; Sp. p. 4608; Gaz. vol. 142; p. 801.
- Shrum, J. (See Burton, L. C., assignor.)
- Shrum, W. F., Latrobe, Pa. Mechanic's case. No. 913,569; Feb. 23; Sp. p. 5273; Gaz. vol. 139; p. 933.
- Shryock, D. F. (See Wallin and Shryock.)
- Shuart, W. J., Detroit, Mich. Separable square. No. 911,846; Feb. 9; Sp. p. 1603; Gaz. vol. 139; p. 298.
- Shue, E. F., New York, N. Y. Liquid-weigher. No. 939,103; Nov. 2; Sp. p. 1383; Gaz. vol. 148; p. 225.
- Shue, S. W., Dayton, Ohio. Scaffold-bracket. No. 910,591; Jan. 26; Sp. p. 4448; Gaz. vol. 138; p. 811.
- Shuffelbarger, C. E. (See Bridgewater, A. M., assignor.)
- Shuffelbottom, W., and T. Kenworthy, Ashton-under-Lyne, England. Rope-coupling. No. 943,168; Dec. 14; Sp. p. 2449; Gaz. vol. 149; p. 416.
- Shugart, W. H., Newport, Tenn. Railway-switch. No. 932,588; Aug. 31; Sp. p. 6266; Gaz. vol. 145; p. 1084.
- Shugart, W. H., Newport, Tenn. Rail-joint. No. 937,333; Oct. 19; Sp. p. 3600; Gaz. vol. 147; p. 622.
- Shular, D. F., Crawfordsville, Ind. Corn-planter. No. 927,607; July 13; Sp. p. 1870; Gaz. vol. 144; p. 331.

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- Shults, H. H., Cherry Creek, N. Y. Indicator. No. 926,026; June 22; Sp. p. 6146; Gaz. vol. 143; p. 1061.
- Shults, J. W., Wichita, Kans. Dilator. No. 923,303; June 1; Sp. p. 450; Gaz. vol. 143; p. 63.
- Shults, W. R., New York, N. Y. Device for holding shoe-laces. No. 913,063; Feb. 23; Sp. p. 4210; Gaz. vol. 139; p. 762.
- Shultz, E., Newtown, Ind. Wire-fence clutch. No. 912,903; Feb. 16; Sp. p. 3887; Gaz. vol. 139; p. 685.
- Shultz, H. B. (See Gibler, B. F., assignor.)
- Shultz, J. J., Delphi, Ind. Hammock-support. No. 925,044; June 15; Sp. p. 4181; Gaz. vol. 143; p. 711.
- Shuman, A., Connellsville, Pa., assignor to Continuous Glass Press Company. Machine for crimping meshed wire. No. 936,673; Oct. 12; Sp. p. 2261; Gaz. vol. 147; p. 376.
- Shuman, F. (See Schumann, F., assignor.)
- Shuman, W. I. (See McClure and Shuman.)
- Shumard, E. C., Milford, Ohio. Frame suspension for automobiles. No. 927,886; July 13; Sp. p. 2471; Gaz. vol. 144; p. 422.
- Shumway, F. M. (See Gregory and Shumway.)
- Shupe, H. P., Cleveland, Ohio. Garment-pressing machine. No. 940,078; Nov. 16; Sp. p. 3621; Gaz. vol. 148; p. 618.
- Shupert, F. W., San Bernardino, Cal., and H. W. Jacobs, Topeka, Kans., assignors to themselves as trustees. Sectional fire-box. No. 917,172; Apr. 6; Sp. p. 426; Gaz. vol. 141; p. 74.
- Shupert, H., Elkhart, Ind. Separator-sieve. No. 922,732; May 25; Sp. p. 5420; Gaz. vol. 142; p. 955.
- Shuptrine, O. D. (See Jennings and Shuptrine.)
- Shurtleff, C., Akron, Ohio. Pneumatic clipper. No. 937,334; Oct. 19; Sp. p. 3602; Gaz. vol. 147; p. 622.
- Shurtleff, F., Moline, Ill., assignor of one-half to Moline Vacuum-Vapor Heating Company. Vacuum-valve for heating systems. No. 930,893; Aug. 10; Sp. p. 2626; Gaz. vol. 145; p. 449.
- Shurtleff, W., assignor of one-half to Moline Vacuum-Vapor Heating Company, Moline, Ill. Valve. No. 944,155; Dec. 21; Sp. p. 4560; Gaz. vol. 149; p. 782.
- Shuster, A. E., North Bend, Oreg. Device for supporting umbrellas. No. 921,900; May 18; Sp. p. 3726; Gaz. vol. 142; p. 656.
- Shute, C. S., Boston, Mass. Safety fence and gate for railway-platforms. No. 915,122; Mar. 16; Sp. p. 3038; Gaz. vol. 140; p. 536.
- Shute, C. S., Boston, Mass. Railway fence and gate. No. 933,857; Sept. 14; Sp. p. 1830; Gaz. vol. 146; p. 302.
- Shute, P. W., White Pigeon, Mich. Inhaler. No. 912,742; Feb. 16; Sp. p. 3597; Gaz. vol. 139; p. 635.
- Shutt, J. E., Ganado, Tex. Pump. No. 924,697; June 15; Sp. p. 3448; Gaz. vol. 143; p. 593.
- Shutt, J. E., Ganado, Tex. Plunger head or valve. No. 940,900; Nov. 23; Sp. p. 5434; Gaz. vol. 148; p. 921.
- Shutts, W. E., Ellenburg Center, N. Y. Miter-box. No. 938,282; Oct. 26; Sp. p. 5604; Gaz. vol. 147; p. 958.
- Shweimler, R. W., Louisville, Ky. Fire escape. No. 937,722; Oct. 19; Sp. p. 4424; Gaz. vol. 147; p. 751.
- Shy, J. R. (See Shy, Speer, and Shy.)
- Shy, W., N. T. Speer, and J. R. Shy, New Madrid, Mo. Cotton-chopper. No. 924,845; June 15; Sp. p. 3760; Gaz. vol. 143; p. 644.
- Sias, M. L. (See Gregory and Sias.)
- Sibbitt, M. R., Jet, Okla. Bit. No. 933,396; Sept. 7; Sp. p. 816; Gaz. vol. 146; p. 127.
- Sibert, C. A., Fruitport, Mich. Pipe-bracket. No. 930,241; Aug. 3; Sp. p. 1271; Gaz. vol. 145; p. 209.
- Sibley, C. C. (See Lutz and Sibley.)
- Sibley, C. C., Perth Amboy, N. J. Manufacture of ornamental glass goods. No. 912,426; Feb. 16; Sp. p. 2895; Gaz. vol. 139; p. 525.
- Sibley, G., Philadelphia, Pa. Artificial tooth. No. 910,870; Jan. 26; Sp. p. 4984; Gaz. vol. 138; p. 899.
- Sibley, R. W., Boston, Mass. Wire and wire-fabric stretcher. No. 942,016; Nov. 30; Sp. p. 7809; Gaz. vol. 148; p. 1315.
- Sibson, W. W. (See Allsop and Sibson.)
- Sicilian Asphalt Paving Co. (See Williamson and Brennan, assignors.)
- Sickel, G., St. Joseph, Mo. Cotton-picker. No. 944,156; Dec. 21; Sp. p. 4561; Gaz. vol. 149; p. 783.
- Sickelsmith, S. B., Newhaven, Pa. Trolley. No. 912,427; Feb. 16; Sp. p. 2897; Gaz. vol. 139; p. 525.
- Sickenberger, E. F., Carlstadt, N. J. Internal-combustion engine. No. 937,653; Oct. 19; Sp. p. 4268; Gaz. vol. 147; p. 729.
- Sicking, B. (See Hoff, C., assignor.)
- Sickler, M. M., Buffalo, N. Y. Road-machine. No. 915,492; Mar. 16; Sp. p. 3773; Gaz. vol. 140; p. 656.
- Sickler, M. M., Pala, Cal. Road-machine. No. 927,887; July 13; Sp. p. 2473; Gaz. vol. 144; p. 422.
- Sickles, F. W., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 928,225; July 13; Sp. p. 3145; Gaz. vol. 144; p. 533.
- Sickles, F. W., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 928,226; July 13; Sp. p. 3146; Gaz. vol. 144; p. 536.
- Sicklesteel, F. A., and F. C. Ballard, North Branch, Mich. Metal culvert. No. 937,876; Oct. 26; Sp. p. 4749; Gaz. vol. 147; p. 821.
- Sicotte, P., Lansing, Kans. Means for securing parts of furniture together. No. 918,209; Apr. 13; Sp. p. 2539; Gaz. vol. 141; p. 452.
- Siddall, A., Bondi, Sydney, New South Wales, Australia. Attachment applicable for supporting pictures and other articles. No. 921,472; May 11; Sp. p. 2835; Gaz. vol. 142; p. 487.
- Siddall, C. J., Kalamazoo, Mich. Valve. No. 917,498; Apr. 6; Sp. p. 1057; Gaz. vol. 141; p. 185.
- Siddall, W. (See Atcherson and Siddall.)
- Sideman, R., San Francisco, Cal. Skirt-marker. No. 923,902; June 8; Sp. p. 1793; Gaz. vol. 143; p. 298.
- Sidley, R. M., Los Angeles, Cal. Undergarment. No. 931,151; Aug. 17; Sp. p. 3229; Gaz. vol. 145; p. 563.
- Sidway, C. S., et al. (See Garretson, E., assignor.)
- Sieben, H., assignor of one-fourth to L. E. Wyne and one-fourth to A. H. Glasner, Kansas City, Mo. Fluid-controlling apparatus. No. 938,613; Nov. 2; Sp. p. 389; Gaz. vol. 148; p. 58.
- Siebenmann, F. E., Denver, Colo. Steam-heating system. No. 921,473; May 11; Sp. p. 2837; Gaz. vol. 142; p. 487.
- Siebenmorgen, W., Westfield, N. J., assignor to C & C Electric Company. Welding apparatus. No. 918,921; Apr. 20; Sp. p. 4091; Gaz. vol. 141; p. 717.
- Sieber, L. (See O'Brien, W., assignor.)
- Sieber & Trussell Manufacturing Company. (See Dawson, J. G., assignor.)
- Siebert, H. C. (See Ahlen and Siebert.)
- Siebert, L. A., Columbus, Ohio. Electric air heating and discharging device. No. 922,531; May 25; Sp. p. 5013; Gaz. vol. 142; p. 891.
- Sieckmann, W., Quincy, Ill. Curtain-frame. No. 934,364; Sept. 14; Sp. p. 2810; Gaz. vol. 146; p. 468.
- Siedentopf, H., assignor to Firm of Carl Zeiss, Jena, Germany. Illuminating system. No. 929,795; Aug. 3; Sp. p. 347; Gaz. vol. 145; p. 58.
- Siegel, B., Detroit, Mich. Garment-display rack. No. 920,197; May 4; Sp. p. 217; Gaz. vol. 142; p. 33.
- Siegel, J. (See Colley, G. H., assignor.)
- Siegel, L. M., Colville, Wash. Plate-holder. No. 938,082; Oct. 26; Sp. p. 5198; Gaz. vol. 147; p. 890.
- Sieger, J., Hörde, Germany. Metallic ring-packing. No. 922,635; May 25; Sp. p. 5230; Gaz. vol. 142; p. 925.
- Siegfried, R., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Roller-bearing for rocker-rings. No. 910,964; Jan. 26; Sp. p. 5158; Gaz. vol. 138; p. 930.
- Siegfried, R., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric motor. No. 917,806; Apr. 13; Sp. p. 1691; Gaz. vol. 141; p. 313.
- Siegfried, R., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Suspension means for prime movers. No. 931,152; Aug. 17; Sp. p. 3230; Gaz. vol. 145; p. 563.
- Siegfried, R., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Cross-connections for dynamo-electric machines. No. 941,388; Nov. 30; Sp. p. 6495; Gaz. vol. 148; p. 1105.
- Siegle & Co., G. m. b. H., G. (See Würthner, E., assignor.)
- Siegler, F. (See Siegler, O., O., and F.)
- Siegler, O. (See Siegler, O., O., and F.)
- Siegler, O., O., and F., Belleville, Ill. Adjustable riveting-stake. No. 935,555; Sept. 28; Sp. p. 5207; Gaz. vol. 146; p. 914.
- Siegrist, A. (See Speckenbach, O., assignor.)
- Siegrist, G. M., et al. (See Doerr, C. J., assignor.)
- Siegrist, H., Oberwil, assignor to Weidmann & Co., Zurich, Switzerland. Hand punching-machine. No. 942,291; Dec. 7; Sp. p. 563; Gaz. vol. 149; p. 89.
- Sieh, F. H., and F. J. Lowe, Minneapolis, Minn. Mail-box. No. 935,934; Oct. 5; Sp. p. 717; Gaz. vol. 147; p. 105.
- Sieh, J., James, S. D. Vehicle-coupling. No. 910,592; Jan. 26; Sp. p. 4449; Gaz. vol. 138; p. 811.
- Siemens Gebrüder & Co. (See Egly, G., assignor.)
- Siemens & Halske, A. G. (See Bolton, W. von, assignor.)
- Siemens & Halske, A. G. (See Bolton and Hartmann, assignors.)
- Siemens & Halske, A. G. (See Fischer, E., assignor.)
- Siemens & Halske, A. G. (See Huth, M., assignor.)
- Siemens & Halske, A. G. (See Neugebauer, O., assignor.)
- Siemens & Halske, A. G. (See Prochaska, F., assignor.)
- Siemens & Halske, A. G. (See Schrader, C., assignor.)
- Siemens & Halske Aktiengesellschaft. (See Bolton, W. von, assignor.)



*Alphabetical list of patentees—Continued.*

- Siemens & Halske, Aktiengesellschaft. (See Engelhardt and Huth, assignors.)  
 Siemens-Schuckert Werke. (See Kalkner, F., assignor.)  
 Siemens-Schuckert Werke G. m. b. H. (See Behrend, H., assignor.)  
 Siemens-Schuckert-Werke G. m. b. H. (See Krell, O., assignor.)  
 Siemens-Schuckert-Werke G. m. b. H. (See Meckelburg, E., assignor.)  
 Siems, H. J., Seneca, Kans. Combined school desk and chair. No. 937,103; Oct. 19; Sp. p. 3112; Gaz. vol. 147; p. 547.  
 Siems, J. F., Columbus, Nebr. Connector attachment for batteries. No. 910,965; Jan. 26; Sp. p. 5159; Gaz. vol. 138; p. 930.  
 Siemsen, J., Kearney, Nebr. Hitching device. No. 911,771; Feb. 9; Sp. p. 1470; Gaz. vol. 139; p. 274.  
 Siemsen, J., Kearney, assignor of one-half to L. H. Smith, Lomax, Nebr. Clothes-line support. No. 930,894; Aug. 10; Sp. p. 2627; Gaz. vol. 145; p. 450.  
 Sierra, S. A., Caracas, Venezuela. Manual planter. No. 911,453; Feb. 2; Sp. p. 817; Gaz. vol. 139; p. 143.  
 Sievert, A. H., assignor of one-half to C. W. Sievert, Los Angeles, Cal. Hydrocarbon-burner. No. 918,781; Apr. 20; Sp. p. 3777; Gaz. vol. 141; p. 670.  
 Sievert, C. W. (See Sievert, A. H., assignor.)  
 Sievert, C. W., Los Angeles, Cal. Pipe-wrench. No. 916,376; Mar. 23; Sp. p. 5497; Gaz. vol. 140; p. 975.  
 Sievert, P. T., Dresden, Germany. Machine for making hollow glass articles. No. 936,822; Oct. 12; Sp. p. 2545; Gaz. vol. 147; p. 425.  
 Siff, G., New York, N. Y., assignor of one-half to D. Bear, Elizabethport, N. J. Advertising appliance. No. 924,111; June 8; Sp. p. 2174; Gaz. vol. 143; p. 363.  
 Siffrt, G., and G. W. Steele, Brooklyn, N. Y. Perambulator or vehicle. No. 918,782; Apr. 20; Sp. p. 3778; Gaz. vol. 141; p. 670.  
 Sigafos, R. B., Denver, Colo. Combined muck-channel-forming tunnel-track and muck-discharging car. No. 912,904; Feb. 16; Sp. p. 3888; Gaz. vol. 139; p. 685.  
 Sigal, S. L., Pittsburg, Pa. Food compound or condiment. No. 934,763; Sept. 21; Sp. p. 3591; Gaz. vol. 146; p. 626.  
 Siggel, W. F., Albert, Tex. Pump-operating mechanism. No. 919,784; Apr. 27; Sp. p. 6038; Gaz. vol. 141; p. 1038.  
 Siggers, E. G. (See Farley, W. H., assignor.)  
 Sight Feed Oil Pump Company. (See Sherman, W. S., assignor.)  
 Sigler, W. S., Mexico, Mexico. Transporting-bar for pipes. No. 938,023; Oct. 26; Sp. p. 5057; Gaz. vol. 147; p. 870.  
 Sigler, W. S., Mexico, Mexico. Mold for curved pipe-sections. No. 938,024; Oct. 26; Sp. p. 5058; Gaz. vol. 147; p. 870.  
 Sigler, W. S., San Pedro, Mexico. Apparatus for jointing pipes. No. 940,562; Nov. 16; Sp. p. 4705; Gaz. vol. 148; p. 783.  
 Siglin, N., Aurelia, Iowa. Grinding-machine for band-cutter knives. No. 916,044; Mar. 23; Sp. p. 4891; Gaz. vol. 140; p. 866.  
 Signalphone Alarm Company. (See Salisbury, E. E., assignor.)  
 Signature Company. (See Brand, J. S., assignor.)  
 Signor, A. J., Elkhart, Ind. Boring appliance. No. 914,759; Mar. 9; Sp. p. 2333; Gaz. vol. 140; p. 391.  
 Sigoloff Bros. Hardware Company. (See Tatebaum, W., assignor.)  
 Sigrist, J. P., New York, N. Y. Making hollow candy articles. No. 927,435; July 6; Sp. p. 1480; Gaz. vol. 144; p. 245.  
 Sigurdsson, O. V., assignor to Oddur Manufacturing Company, New York, N. Y. Type casting and composing machine. No. 942,846; Dec. 7; Sp. p. 1684; Gaz. vol. 149; p. 274.  
 Sigurdsson, O. V., assignor to Oddur Manufacturing Company, New York, N. Y. Type casting and composing machine. No. 944,108; Dec. 21; Sp. p. 4457; Gaz. vol. 149; p. 767.  
 Silberhorn, W. H., Dumont, Colo. Ore-separating apparatus. No. 931,153; Aug. 17; Sp. p. 3231; Gaz. vol. 145; p. 564.  
 Silberman, L., Brooklyn, N. Y. Ventilator. No. 933,271; Sept. 7; Sp. p. 556; Gaz. vol. 146; p. 85.  
 Silberschmidt, L. W., La Crosse, Wis. Carbonator. No. 935,698; Oct. 5; Sp. p. 161; Gaz. vol. 147; p. 26.  
 Siler, A. J. (See Siler, A. V., assignor.)  
 Siler, A. V., Newark, assignor of one-half to A. J. Siler, Massillon, Ohio. Insulator for electric wires. No. 931,507; Aug. 17; Sp. p. 3967; Gaz. vol. 145; p. 684.  
 Silica Syndicate Limited. (See Kent and Lacell, assignors.)  
 Sill, S. J., assignor of one-half to H. H. Hewitt, Buffalo, N. Y. Machine for cutting fabric. No. 910,325; Jan. 19; Sp. p. 3874; Gaz. vol. 138; p. 697.  
 Sill, S. J., assignor of one-half to H. H. Hewitt, Buffalo, N. Y. Machine for mounting hose on mandrels. No. 910,735; Jan. 26; Sp. p. 4708; Gaz. vol. 138; p. 856.  
 Sill, S. J., assignor of one-half to H. H. Hewitt, Buffalo, N. Y. Machine for applying wrappers to rubber hose. No. 910,871; Jan. 26; Sp. p. 4985; Gaz. vol. 138; p. 900.  
 Sill Stove Works. (See Clunies, A. B., assignor.)  
 Sillman, B. F., Cleveland, Ohio. Steam-generator. No. 943,277; Dec. 14; Sp. p. 2678; Gaz. vol. 149; p. 453.  
 Sillman, W. (See Boyle, M. J., assignor.)  
 Silman, J., et al. (See Baker, O. O., assignor.)  
 Silveira e Paulo, J. J. da, Lisbon, Portugal. Machinery for drying cocoa. No. 921,631; May 11; Sp. p. 3163; Gaz. vol. 142; p. 541.  
 Silver & Company. (See Ferdon, G. W., assignor.)  
 Silver, G. A., Huntsville, Ontario, Canada. Railway-crossing signal. No. 936,372; Oct. 12; Sp. p. 1615; Gaz. vol. 147; p. 274.  
 Silver, H. (See Holland and Silver.)  
 Silver, J. A., Salt Lake City, Utah. Machine for removing scale from boiler-tubes. No. 919,785; Apr. 27; Sp. p. 6039; Gaz. vol. 141; p. 1038.  
 Silver, J. W., Tacoma, Wash. Advertising-machine. No. 933,272; Sept. 7; Sp. p. 558; Gaz. vol. 146; p. 85.  
 Silver Manufacturing Company. (See Haldeman, C. F., assignor.)  
 Silver Manufacturing Company. (See Taylor, S. A., assignor.)  
 Silver, W., Tamworth, New South Wales, Australia. Sheep-shearing machine. No. 913,064; Feb. 23; Sp. p. 4211; Gaz. vol. 139; p. 762.  
 Silver, W. P., Isabel, Kans. Grain-separator. No. 939,449; Nov. 9; Sp. p. 2228; Gaz. vol. 148; p. 370.  
 Silverberg, J., McKees Rocks, Pa. Smoke and heat deflector for lights. No. 916,207; Mar. 23; Sp. p. 5187; Gaz. vol. 140; p. 918.  
 Silverglade, A., Cincinnati, Ohio. Utensil-cleaner. No. 908,509; Jan. 5; Sp. p. 154; Gaz. vol. 138; p. 28.  
 Silverman, S., and J. E. Trahan, Watertown, N. Y. Signal for pneumatic tires. No. 928,553; July 20; Sp. p. 3849; Gaz. vol. 144; p. 674.  
 Silverman, S., and J. E. Trahan, Watertown, N. Y.; said Trahan assignor to said Silverman. Signal for pneumatic tires. No. 944,971; Dec. 28; Sp. p. 6321; Gaz. vol. 149; p. 1086.  
 Silvernail, C. R. (See Luce and Silvernail.)  
 Silverstein, B., New York, N. Y. Collapsible box. No. 923,903; June 8; Sp. p. 1796; Gaz. vol. 143; p. 298.  
 Simister, F. W. (See Wells and Simister.)  
 Simle, O., assignor of one-half to G. K. Jordet, Portland, N. D. Cockeye. No. 937,104; Oct. 19; Sp. p. 3114; Gaz. vol. 147; p. 548.  
 Simmen, P. J., Los Angeles, Cal. Electric block-signal system. No. 910,593; Jan. 26; Sp. p. 4450; Gaz. vol. 138; p. 811.  
 Simmen, P. J., Los Angeles, Cal. Cab-signal circuit. No. 941,541; Nov. 30; Sp. p. 6820; Gaz. vol. 148; p. 1155.  
 Simmen, P. J., Oakland, Cal. Train-dispatcher's chart. No. 940,079; Nov. 16; Sp. p. 3624; Gaz. vol. 148; p. 618.  
 Simmerman, J., Dayton, Ohio. Gas-lamp extinguisher. No. 930,422; Aug. 10; Sp. p. 1610; Gaz. vol. 145; p. 292.  
 Simmons, A. G., Boston, Mass. Watering-trough. No. 920,781; May 4; Sp. p. 1392; Gaz. vol. 142; p. 225.  
 Simmons, A. M., Marlboro, Mass. Heel-building machine. No. 914,462; Mar. 9; Sp. p. 1704; Gaz. vol. 140; p. 292.  
 Simmons, B. R., Kansas City, Kans. Mail-bag-pick-up mechanism. No. 933,273; Sept. 7; Sp. p. 560; Gaz. vol. 146; p. 85.  
 Simmons, C. A., Albany, N. Y. Drill-socket. No. 924,388; June 8; Sp. p. 2317; Gaz. vol. 143; p. 458.  
 Simmons, C. B., Bristol, Conn. Floor and ceiling plate and making the same. No. 930,624; Aug. 10; Sp. p. 2062; Gaz. vol. 145; p. 361.  
 Simmons, C. B., Bristol, Conn., assignor to Whitley Exerciser Company, New York, N. Y. Paper clip or clasp. No. 912,191; Feb. 9; Sp. p. 2365; Gaz. vol. 139; p. 409.  
 Simmons, C. B., Bristol, assignor of one-half to I. S. Bailey, Plantsville, Conn. Hand-controlled tool. No. 916,497; Mar. 30; Sp. p. 5784; Gaz. vol. 140; p. 1041.  
 Simmons, C. J., Grand Rapids, Mich. Drill-press. No. 916,621; Mar. 30; Sp. p. 6036; Gaz. vol. 140; p. 1082.  
 Simmons, C. L. (See Palmer, C. E., assignor.)  
 Simmons, C. L., Spokane, assignor of two-thirds to A. R. Mitchelson and J. L. Joyce, Davenport, Wash. Grapple. No. 927,180; July 6; Sp. p. 996; Gaz. vol. 144; p. 161.  
 Simmons, D. H., Americus, Kans. Apparatus for straightening grain upon harvesters. No. 923,084; May 25; Sp. p. 6161; Gaz. vol. 142; p. 1069.  
 Simmons, E. F., Rostindale, Mass. Packing-form for ladies' waists and similar articles. No. 924,281; June 8; Sp. p. 2590; Gaz. vol. 143; p. 422.  
 Simmons, E. W., Mattapan, Mass. Gage. No. 919,786; Apr. 27; Sp. p. 6040; Gaz. vol. 141; p. 1038.  
 Simmons, G. F. (See Moore and Simmons.)  
 Simmons, J. C., Shelby, Mich. Washing-machine. No. 926,776; July 6; Sp. p. 137; Gaz. vol. 144; p. 221.  
 Simmons, L. R. (See Simmons, W. C. and L. R.)  
 Simmons, L. W., Forest Lake, Minn. Envelop. No. 913,987; Mar. 2; Sp. p. 707; Gaz. vol. 140; p. 111.  
 Simmons Manufacturing Company. (See Gail, J. F., assignor.)

*Alphabetical list of patentees—Continued.*

- Simmons Manufacturing Company. (See Vincent, W. W., assignor.)
- Simmons, T. (See Pederson and Simmons.)
- Simmons, W. C. and L. R., Beaver City, Nebr. Washing-machine. No. 939,340; Nov. 9; Sp. p. 1969; Gaz. vol. 148; p. 335.
- Simmons, W. M., assignor of one-third to F. R. Puckett and one-third to W. H. Garnett, Hinton, W. Va. Composition of matter to be used in packing journals of railway-cars. No. 923,304; June 1; Sp. p. 451; Gaz. vol. 143; p. 64.
- Simms, A., and S. C. Cook, Washington, Pa. Nut-lock. No. 929,031; July 27; Sp. p. 4818; Gaz. vol. 144; p. 861.
- Simms, R., assignor to W. B. Matthews, Washington, D. C. Awning guide-rod. No. 928,806; July 20; Sp. p. 4351; Gaz. vol. 144; p. 758.
- Simon, A. (See Hoffman, M. H., assignor.)
- Simon, A. A., New York, N. Y. Means for sharpening knives in cloth-cutting machines. No. 927,689; July 13; Sp. p. 2056; Gaz. vol. 144; p. 357.
- Simon, A. H., Kyle, Tex. Display-case. No. 926,298; June 29; Sp. p. 6728; Gaz. vol. 143; p. 1186.
- Simon, B. (See Treber and Simon.)
- Simon, C. (See Druckleb and Simon.)
- Simon, Firm of P. (See Reitz, J., assignor.)
- Simon, H. A. (See Weisell and Hemsteger, assignors.)
- Simon, H. H., Atlanta, Ga. Internal-combustion engine. No. 928,405; July 20; Sp. p. 3553; Gaz. vol. 144; p. 628.
- Simon, J., Chicago, Ill. Testing-plug for pipe systems. No. 910,966; Jan. 26; Sp. p. 5160; Gaz. vol. 138; p. 930.
- Simon, J., Vincennes, France. Universal-joint device. No. 943,573; Dec. 14; Sp. p. 3290; Gaz. vol. 149; p. 555.
- Simon, J. J., McDonaldsville, Ohio. Finishing-nail. No. 927,281; July 6; Sp. p. 1205; Gaz. vol. 144; p. 198.
- Simon, O. E., Jefferson City, Mo. Gage for ruling-machines and the like. No. 924,846; June 15; Sp. p. 3762; Gaz. vol. 143; p. 644.
- Simon, P., et al. (See Greenberg, M., assignor.)
- Simonds, F. A., Grand Rapids, assignor to Simonds Heating and Specialty Company, Fremont, Mich. Controller for radiator-valves. No. 910,092; Jan. 19; Sp. p. 3342; Gaz. vol. 138; p. 615.
- Simonds, F. A., Grand Rapids, assignor to Simonds Heating and Specialty Company, Fremont, Mich. Vacuum steam-controller. No. 921,172; May 11; Sp. p. 2194; Gaz. vol. 142; p. 386.
- Simonds, F. A., Grand Rapids, assignor to Simonds Heating and Specialty Company, Fremont, Mich. Vacuum-pump. No. 943,848; Dec. 21; Sp. p. 3904; Gaz. vol. 149; p. 679.
- Simonds, F. A., Grand Rapids, assignor to Simonds Heating & Specialty Company, Fremont, Mich. Radiator-valve. No. 932,589; Aug. 31; Sp. p. 6267; Gaz. vol. 145; p. 1084.
- Simonds Heating and Specialty Company. (See Simonds, F. A., assignor.)
- Simonds Manufacturing Company. (See Howard, L. E., assignor.)
- Simonds Manufacturing Company. (See Remington, A. M., assignor.)
- Simonds, R. H., Southbridge, Mass. Manufacturing spectacle-frames. No. 931,508; Aug. 17; Sp. p. 3968; Gaz. vol. 145; p. 684.
- Simonides, B., Gleiwitz, assignor to Schneider & Helmecke, Magdeburg, Germany. Automatic feed device for steam-boilers. No. 910,872; Jan. 26; Sp. p. 4988; Gaz. vol. 138; p. 900.
- Simonini, A., Atlantic City, N. J., assignor to Welsbach Light Company. Manufacture of incandescent gas-mantles. No. 936,177; Oct. 5; Sp. p. 1210; Gaz. vol. 147; p. 183.
- Simons, A. C., Amherst Junction, Wis. Self-feeder planter-sack. No. 913,988; Mar. 2; Sp. p. 708; Gaz. vol. 140; p. 111.
- Simons, A., Schenectady, N. Y. Flush-meter. No. 913,776; Mar. 2; Sp. p. 211; Gaz. vol. 140; p. 35.
- Simons, J., Los Angeles, Cal. Conveying and distributing mechanism. No. 930,992; Aug. 10; Sp. p. 2847; Gaz. vol. 145; p. 480.
- Simons, S. L., assignor of one-half to C. B. Jenkins, Charleston, S. C. Mold for drain-pipe sections. No. 937,105; Oct. 19; Sp. p. 3115; Gaz. vol. 147; p. 548.
- Simonsen, J. C., Elkhart, Ind. Carbureter. No. 942,977; Dec. 14; Sp. p. 2029; Gaz. vol. 149; p. 352.
- Simonson, A., New York, N. Y. Paper decoration. No. 940,484; Nov. 16; Sp. p. 4530; Gaz. vol. 148; p. 758.
- Simonson, C. J., Caron, Saskatchewan, Canada. Rack for rolls of merchandise. No. 941,281; Nov. 23; Sp. p. 6265; Gaz. vol. 148; p. 1048.
- Simonton, C. A., Crestline, Ohio. Hot-air furnace. No. 927,608; July 13; Sp. p. 1872; Gaz. vol. 144; p. 331.
- Simonton, C. A., Crestline, Ohio. Hot-air furnace. No. 943,710; Dec. 21; Sp. p. 3625; Gaz. vol. 149; p. 631.
- Simonton, C. A., Crestline, Ohio. Hot-air furnace. No. 943,711; Dec. 21; Sp. p. 3626; Gaz. vol. 149; p. 631.
- Simpkins, J. H., Uhrichsville, Ohio. Boiler-setting. No. 925,519; June 22; Sp. p. 5080; Gaz. vol. 143; p. 894.
- Simplex Adder Company. (See Cheape, J. A., assignor.)
- Simplex Bag Company of Long Island City. (See Liddell, W., assignor.)
- Simplex Company. (See Brandt, J. A., assignor.)
- Simplex Engineering Co. (See Schmid, J. V., assignor.)
- Simplex Piano Player Company. (See Brown, T. F., assignor.)
- Simplex Rail Fastener & Metallic Tie Co. (See Zaleski, S. J., assignor.)
- Simplex Railway Appliance Company. (See Bauer, E. H., assignor.)
- Simplex Railway Appliance Company. (See Fowler, W. E., Jr., assignor.)
- Simplex Self-Hoisting Machine Company. (See Moulton, I. C., assignor.)
- Simplex Self Holding Carton Co. (See Goodman, N. J., assignor.)
- Simplex Surface Contact Company. (See Huse and Douty, assignors.)
- Simplex Time Recorder Company. (See Hawley, C. T., assignor.)
- Simplex Valve & Meter Company. (See Borden, M. M., assignor.)
- Simplex Valve & Meter Company. (See Ledoux, J. W., assignor.)
- Simpton, A. E., assignor of one-half to Bentley & Jackson, Limited, Bury, England. Gearing for stentering-machines. No. 939,959; Nov. 9; Sp. p. 3317; Gaz. vol. 148; p. 547.
- Simpson, B. H., Nobletown, Pa. Obstetrical apparatus. No. 913,989; Mar. 2; Sp. p. 709; Gaz. vol. 140; p. 111.
- Simpson, C., assignor to Miracle Pressed Stone Company, Minneapolis, Minn. Brick-molding machine. No. 931,154; Aug. 17; Sp. p. 3233; Gaz. vol. 145; p. 564.
- Simpson, C. A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone ringing system for party-lines. No. 910,873; Jan. 26; Sp. p. 4989; Gaz. vol. 138; p. 900.
- Simpson, C. A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone trunking system. No. 936,374; Oct. 12; Sp. p. 1619; Gaz. vol. 147; p. 274.
- Simpson, C. A., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Selective ringing-key. No. 936,373; Oct. 12; Sp. p. 1616; Gaz. vol. 147; p. 274.
- Simpson, C. C. W., Wigan, England. Friction block or shoe. No. 931,093; Aug. 17; Sp. p. 3094; Gaz. vol. 145; p. 543.
- Simpson, C. E., Portsmouth, Ohio. Die for pressing bricks. No. 916,796; Mar. 30; Sp. p. 6338; Gaz. vol. 140; p. 1132.
- Simpson, C. M., Cincinnati, Ohio. Garter-fastener. No. 911,772; Feb. 9; Sp. p. 1471; Gaz. vol. 139; p. 274.
- Simpson, C. N., Bryan, Tex. Attachment for riding-cultivators and other agricultural implements. No. 936,823; Oct. 12; Sp. p. 2547; Gaz. vol. 147; p. 426.
- Simpson, D. M., Chicago, Ill. Drinking-cup attachment. No. 940,204; Nov. 16; Sp. p. 3904; Gaz. vol. 148; p. 663.
- Simpson, D. O. (See Crigger, H. C., assignor.)
- Simpson, F. V., and R. Franchot, Niagara Falls, N. Y. Ground-anchor. No. 936,824; Oct. 12; Sp. p. 2549; Gaz. vol. 147; p. 426.
- Simpson, G., Quincy, Mass., assignor to Fore River Ship Building Company. Ballast-tank for ships. No. 932,722; Aug. 31; Sp. p. 6555; Gaz. vol. 145; p. 1129.
- Simpson, G. C., West Newton, assignor to E. C. Willison, Boston, Mass. Cemetery structure. No. 934,764; Sept. 21; Sp. p. 3592; Gaz. vol. 146; p. 626.
- Simpson, H., Lowell, Mass. Car-fender. No. 936,953; Oct. 12; Sp. p. 2812; Gaz. vol. 147; p. 426.
- Simpson, H., Burlington, Wis. Water retaining and conveying attachment for cable lightning-rods. No. 940,742; Nov. 23; Sp. p. 5098; Gaz. vol. 148; p. 869.
- Simpson, H. W., assignor to M. E. Calkins, Ithaca, N. Y. Lock. No. 919,259; Apr. 20; Sp. p. 4914; Gaz. vol. 141; p. 824.
- Simpson, H. W., assignor to M. E. Calkins, Ithaca, N. Y. Lock. No. 920,091; Apr. 27; Sp. p. 6702; Gaz. vol. 141; p. 1138.
- Simpson, H. W., assignor to M. E. Calkins, Ithaca, N. Y. Lock. No. 943,898; Dec. 21; Sp. p. 4009; Gaz. vol. 149; p. 695.
- Simpson, H. W., assignor to M. E. Calkins, Ithaca, N. Y. Lock-casing. No. 943,899; Dec. 21; Sp. p. 4017; Gaz. vol. 149; p. 696.
- Simpson, J., Veedsburg, Ind. Door-hanger. No. 912,192; Feb. 9; Sp. p. 2366; Gaz. vol. 139; p. 409.
- Simpson, J., McKeesport, assignor to National Tube Company, Pittsburg, Pa. Transfer apparatus for shear-tables. No. 944,972; Dec. 28; Sp. p. 6323; Gaz. vol. 149; p. 1086.
- Simpson, J. A., Somerville, Mass. Fastener. No. 941,542; Nov. 30; Sp. p. 6822; Gaz. vol. 148; p. 1155.
- Simpson, J. C., Moundsville, W. Va. Wrench. No. 908,617; Jan. 5; Sp. p. 392; Gaz. vol. 138; p. 63.
- Simpson, J. T., Newark, N. J. Means for reinforcing concrete constructions. No. 928,475; July 20; Sp. p. 3695; Gaz. vol. 144; p. 650.
- Simpson, L. E., College Hill, Ohio. Hydroplane-boat. No. 909,468; Jan. 12; Sp. p. 2089; Gaz. vol. 138; p. 372.
- Simpson, R. A., Ferndale, Cal. Butter-mold. No. 919,478; Apr. 27; Sp. p. 5426; Gaz. vol. 141; p. 934.
- Simpson, R. A., Ferndale, Cal. No. Knockdown box. No. 936,484; Oct. 12; Sp. p. 1877; Gaz. vol. 147; p. 310.



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- Simpson, T. W., Castleford, England. Machine for manufacturing glass bottles. No. 933,590; Sept. 7; Sp. p. 1279; Gaz. vol. 146; p. 190.
- Simpson W., *et al.* (See Ansberry, W. N., assignor.)
- Simpson, W. F., Knoxville, Tenn. Speaking-tube. No. 928,554; July 20; Sp. p. 3851; Gaz. vol. 144; p. 674.
- Simpson, W. J., Hope, Idaho. Railway-signal. No. 944,246; Dec. 21; Sp. p. 4730; Gaz. vol. 149; p. 810.
- Simpson, W. J., assignor of one-half to L. W. Hamel, Kootenai, Idaho. Shaker for grates. No. 937,967; Oct. 26; Sp. p. 4929; Gaz. vol. 147; p. 851.
- Simpson, W. M., *et al.* (See Folsom, E. C., assignor.)
- Simpson, W. M., Hastings, assignor of one-half to J. B. Dumbell, Wolverhampton, England. Liquid-fuel burner. No. 930,568; Aug. 10; Sp. p. 1943; Gaz. vol. 145; p. 343.
- Simpson, W. R. (See Chadbourne and Simpson.)
- Simpson, W. S., London, England, assignor, by mesne assignments, to United States Carbo-Welding Company of Delaware. Uniting or welding metals. No. 927,292; July 6; Sp. p. 1206; Gaz. vol. 144; p. 198.
- Simpson, W. S., and H. Oviatt, London, England. Metallurgy of iron. No. 918,381; Apr. 13; Sp. p. 2878; Gaz. vol. 141; p. 509.
- Simpson, W. S., and H. Oviatt, London, England. Metallurgy of steel. No. 918,382; Apr. 13; Sp. p. 2880; Gaz. vol. 141; p. 509.
- Simpson, W. S., and H. Oviatt, London, England. Metallurgy of iron and steel. No. 943,574; Dec. 14; Sp. p. 3292; Gaz. vol. 149; p. 555.
- Sims, A. V., New York, N. Y. Ticket-holder. No. 912,905; Feb. 16; Sp. p. 3891; Gaz. vol. 139; p. 685.
- Sims, D. A., and W. M. Brown, Fort Smith, Ark. Cattle-guard. No. 918,478; Apr. 13; Sp. p. 3071; Gaz. vol. 141; p. 539.
- Sims, F. L. H., Toronto, Ontario, Canada. Agitator for carbid-gas generators. No. 920,198; May 4; Sp. p. 219; Gaz. vol. 142; p. 34.
- Sims, F. L. H., Toronto, Ontario, Canada. Charging and recharging device for carbid-gas generators. No. 929,032; July 27; Sp. p. 4819; Gaz. vol. 144; p. 862.
- Sims, F. L. H., Toronto, Ontario, Canada. Sludge-faucet for carbid-gas generators. No. 936,376; Oct. 12; Sp. p. 1623; Gaz. vol. 147; p. 275.
- Sims, G. A., Erie, Pa. Steam-generator. No. 929,887; Aug. 3; Sp. p. 574; Gaz. vol. 145; p. 90.
- Sims, G. A., Erie, Pa. Oil-filter. No. 932,063; Aug. 24; Sp. p. 5198; Gaz. vol. 145; p. 887.
- Sims, H. H., J. M. Hatch, and J. M. Turrentine, assignors of one-fifth to J. L. Cox and one-fifth to W. H. Pace, Raleigh, N. C. Block-signal system. No. 935,614; Sept. 28; Sp. p. 5322; Gaz. vol. 146; p. 934.
- Sims, S. C., Sterling, Ill. Material for surgical splints. No. 937,478; Oct. 19; Sp. p. 3946; Gaz. vol. 147; p. 670.
- Sims, T. D., Fayetteville, Tenn. Plow. No. 909,241; Jan. 12; Sp. p. 1660; Gaz. vol. 138; p. 299.
- Sinclair, G. G., assignor to Newton & Merriman, Leominster, Mass. Barrette or hair-retainer. No. 918,783; Apr. 20; Sp. p. 3779; Gaz. vol. 141; p. 671.
- Sinclair, H., Butler, Pa. Tank-valve. No. 910,874; Jan. 26; Sp. p. 4992; Gaz. vol. 138; p. 901.
- Sinclair, H. L. (See Sinclair, J. H. and H. L.)
- Sinclair, H. M., Oklahoma, Okla. Compound. No. 931,094; Aug. 17; Sp. p. 3095; Gaz. vol. 145; p. 543.
- Sinclair, J. G., East Orange, N. J. Toy. No. 943,575; Dec. 14; Sp. p. 3294; Gaz. vol. 149; p. 555.
- Sinclair, J. H., and G. D. Neill, Denver, Colo. Water attachment for drill-steels. No. 915,230; Mar. 16; Sp. p. 3263; Gaz. vol. 140; p. 570.
- Sinclair, J. H. and H. L., Denver, Colo. Drill-steel-sharpening chuck. No. 922,349; May 18; Sp. p. 4609; Gaz. vol. 142; p. 801.
- Sinclair, W., San Antonio, Tex. Aerodrome. No. 931,966; Aug. 24; Sp. p. 4983; Gaz. vol. 145; p. 853.
- Sinding-Larsen, A., Christiania, Norway. Treating silicates of aluminum for the purpose of obtaining valuable products. No. 927,758; July 13; Sp. p. 2194; Gaz. vol. 144; p. 380.
- Sinding-Larsen, A., Christiania, Norway. Manufacturing silicon nitrid. No. 928,476; July 20; Sp. p. 3698; Gaz. vol. 144; p. 650.
- Sinek, W. J. (See Blome and Sinek.)
- Singer, A. (See Forbes and Singer.)
- Singer, B. F. and T. Clark, Lancaster, Pa. Dish-washing machine. No. 933,591; Sept. 7; Sp. p. 1288; Gaz. vol. 146; p. 191.
- Singer, C., Winfred, S. D. Fastening for storm blinds or screens. No. 929,507; July 27; Sp. p. 5797; Gaz. vol. 144; p. 1017.
- Singer, C. Winfield, S. D. Sash-fastener. No. 934,765; Sept. 21; Sp. p. 3594; Gaz. vol. 141; p. 627.
- Singer, C., Winfield, S. D. Window-frame. No. 949,485; Nov. 16; Sp. p. 4532; Gaz. vol. 148; p. 758.
- Singer, H. D., and H. V. Pratt, Kankakee, Ill. Steam-trap. No. 930,699; Aug. 10; Sp. p. 2206; Gaz. vol. 145; p. 385.
- Singer, H. D., and H. V. Pratt, Hospital, Ill. Steam-trap. No. 939,450; Nov. 9; Sp. p. 2231; Gaz. vol. 148; p. 371.
- Singer, J. (See Stamps and Singer.)
- Singer, M. H., Chicago, Ill. Advertising device. No. 931,506; Aug. 17; Sp. p. 3970; Gaz. vol. 145; p. 685.
- Singer Manufacturing Company. (See Black, P. J., assignor.)
- Singer Manufacturing Company. (See Card, F. M., assignor.)
- Singer Manufacturing Company. (See De Voe, A. H., assignor.)
- Singer Manufacturing Company. (See Diehl and Hemleb, assignors.)
- Singer Manufacturing Company. (See Gray, C. F., assignor.)
- Singer Manufacturing Company. (See Grieb, A., assignor.)
- Singer Manufacturing Company. (See Habbert and Allen, assignors.)
- Singer Manufacturing Company. (See Hemleb, M., assignor.)
- Singer Manufacturing Company. (See Horton, C. M., assignor.)
- Singer Manufacturing Company. (See McLaughlin and Hughes, assignors.)
- Singer Manufacturing Company. (See Noble and Finch, assignors.)
- Singer Manufacturing Company. (See Prazak, E., assignor.)
- Singer Manufacturing Company. (See Ringe, J. C., assignor.)
- Singer Manufacturing Company. (See Stafford, C., assignor.)
- Singer Manufacturing Company. (See Wilhelm, J. F., assignor.)
- Single Service Package Corporation of America. (See Jenkins, C. F., assignor.)
- Single Service Package Corporation of America. (See Starr and Meineke, assignors.)
- Single Thread Lock Stitch Company. (See Webster, H. A., assignor.)
- Singleton, C. E., New York, N. Y. Christmas-tree holder. No. 923,206; June 1; Sp. p. 182; Gaz. vol. 143; p. 30.
- Singleton, C. E., Brooklyn, N. Y. Tire-fluid container. No. 929,255; July 27; Sp. p. 5274; Gaz. vol. 144; p. 935.
- Singleton, J. W., Columbus, Ga. Dredging-machine. No. 927,690; July 13; Sp. p. 2059; Gaz. vol. 144; p. 357.
- Singley, C. G., Manheim, Pa. Packing cigars. No. 908,809; Jan. 5; Sp. p. 786; Gaz. vol. 138; p. 124.
- Snijis, J., New York, N. Y., assignor to Cosmopolitan Addressing Company. Type-writing machine. No. 924,198; June 8; Sp. p. 2414; Gaz. vol. 143; p. 394.
- Sink, A. E., New York, N. Y. Electromagnet. No. 929,256; July 27; Sp. p. 5275; Gaz. vol. 144; p. 935.
- Sinkler, S., Chicago, Ill. Physician's hypodermic-syringe case. No. 933,791; Sept. 14; Sp. p. 1687; Gaz. vol. 146; p. 280.
- Sinkovits, J., New Brighton, Pa. Air-ship. No. 920,675; May 4; Sp. p. 1191; Gaz. vol. 142; p. 191.
- Sinnickson, G. R., Haddonfield, N. J. Beehive. No. 940,407; Nov. 16; Sp. p. 4377; Gaz. vol. 148; p. 732.
- Sinning, J., and P. A. de Lange, Lennox, S. D. Clamp. No. 925,603; June 22; Sp. p. 5243; Gaz. vol. 143; p. 604.
- Sinnott, J., Philadelphia, Pa. Vehicle-wheel. No. 926,830; July 6; Sp. p. 264; Gaz. vol. 144; p. 42.
- Sintz, C., Grand Rapids, Mich. Ignition-timer. No. 912,906; Feb. 16; Sp. p. 3892; Gaz. vol. 139; p. 686.
- Sipe, C. A., Emigsville, Pa. Mail-bag catching and delivering apparatus. No. 912,907; Feb. 16; Sp. p. 3894; Gaz. vol. 139; p. 686.
- Sipe, H. L., Emigsville, Pa. Window-sash. No. 929,170; July 27; Sp. p. 5111; Gaz. vol. 144; p. 908.
- Sipp, G. (See McLane and Sipp.)
- Sipp, G., Paterson, N. J. Warping-machine. No. 940,080; Nov. 16; Sp. p. 3626; Gaz. vol. 148; p. 619.
- Sipperley, E. N., South Norwalk, Conn. Vibratory massage apparatus. No. 909,828; Jan. 12; Sp. p. 2800; Gaz. vol. 138; p. 493.
- Sirch, C. W., Los Angeles, Cal. Rectifier. No. 931,806; Aug. 24; Sp. p. 4623; Gaz. vol. 145; p. 802.
- Sirr, J., and J. W. Kleine, Chicago, Ill. Bed-spring. No. 938,717; Nov. 2; Sp. p. 584; Gaz. vol. 148; p. 92.
- Sisbower, G. F., New York, assignor to New York Couch Bed Company, Rome, N. Y. Couch-bed. No. 923,305; June 1; Sp. p. 452; Gaz. vol. 143; p. 64.
- Siscoe, O. L., Malden, Mo., assignor, by mesne assignments, of one-half to Universal Package Company. Cutter-head. No. 927,436; July 6; Sp. p. 1482; Gaz. vol. 144; p. 245.
- Sisler, C. O., and L. D. Smiley, Uniontown, Pa. Selective ringing and talking device. No. 927,816; July 13; Sp. p. 2318; Gaz. vol. 144; p. 400.
- Sisson, A. T., Providence, R. I., assignor, by mesne assignments, to E. J. Jones Company, Boston, Mass. Forming-machine. No. 911,911; Feb. 9; Sp. p. 1726; Gaz. vol. 139; p. 320.
- Sisson, G., Newcastle-upon-Tyne, England. Producing magnesium carbonate. No. 935,418; Sept. 28; Sp. p. 4910; Gaz. vol. 146; p. 867.
- Sissons, J. M., Cranbrook, British Columbia, Canada. Fluid-pressure valve. No. 929,033; July 27; Sp. p. 4821; Gaz. vol. 144; p. 862.
- Sistek, J., and J. Spinka, Chicago, Ill. Fluid-actuated vise. No. 941,543; Nov. 30; Sp. p. 6824; Gaz. vol. 148; p. 1155.
- Sisterson, G. R., assignor to Superheaters, Limited, London, England. Steam separator and heater. No. 918,479; Apr. 13; Sp. p. 3073; Gaz. vol. 141; p. 540.
- Sittmann, G., Brooklyn, N. Y. Check-punch. No. 924,112; June 8; Sp. p. 2177; Gaz. vol. 143; p. 363.
- Sitton, W. H., Hobart, Okla. Combined support, gage, and marking device. No. 944,919; Dec. 28; Sp. p. 6223; Gaz. vol. 149; p. 1070.

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- Sitts, W. H., Chicago, Ill. Water-meter. No. 932,502; Aug. 31; Sp. p. 6078; Gaz. vol. 145; p. 1054.
- Sizemore, W. E., Cobb, Ky. Railway-track. No. 934,022; Sept. 14; Sp. p. 2142; Gaz. vol. 146; p. 354.
- Sjoberg, J. P., Elmhurst, N. Y. Door. No. 929,888; Aug. 3; Sp. p. 575; Gaz. vol. 145; p. 90.
- Sjoberg, N. P., assignor to American Metal Door Co., Jamestown, N. Y. Sheet-metal door. No. 926,361; June 29; Sp. p. 6856; Gaz. vol. 143; p. 1206.
- Sjoberg, N. P., assignor to American Metal Door Company, Jamestown, N. Y. Sliding and swinging sash. No. 911,454; Feb. 2; Sp. p. 819; Gaz. vol. 139; p. 143.
- Sjoberg, N. P., assignor to American Metal Door Company, Jamestown, N. Y. Window box or casing. No. 911,455; Feb. 2; Sp. p. 823; Gaz. vol. 139; p. 144.
- Sjöquist, N., Stockholm, Sweden. Adjusting-gear for ordnance. No. 923,207; June 1; Sp. p. 183; Gaz. vol. 143; p. 30.
- Skaala, J. S., and E. H. Hillard, Portland, Ore. Railway-joint. No. 944,157; Dec. 21; Sp. p. 4564; Gaz. vol. 149; p. 783.
- Skabroud, F., Oshkosh, Wis. Gage-knife. No. 929,171; July 27; Sp. p. 5112; Gaz. vol. 144; p. 908.
- Skagen, H. H., Thief River Falls, Minn. Adjustable sifter or screen. No. 908,618; Jan. 5; Sp. p. 393; Gaz. vol. 138; p. 64.
- Skahen, P. D., Syracuse, N. Y. Sectional sheet-metal pulley. No. 917,173; Apr. 6; Sp. p. 429; Gaz. vol. 141; p. 75.
- Skahen, P. D., Syracuse, N. Y. Pulley. No. 928,338; July 20; Sp. p. 3435; Gaz. vol. 144; p. 605.
- Skellenger, C. F. (See Beall and Skellenger.)
- Skelly, J. M. J., assignor of one-half to T. Comer, Cleveland, Ohio. Window-chair. No. 929,034; July 27; Sp. p. 4822; Gaz. vol. 144; p. 862.
- Skelly, T. V., Chicago, Ill. Coin-detector. No. 915,231; Mar. 16; Sp. p. 3265; Gaz. vol. 140; p. 571.
- Skelton, E., Hamilton, Ontario, Canada, assignor of one-half to E. W. McCarty, New York, N. Y. Handle for shovels, spades, and other tools. No. 914,678; Mar. 9; Sp. p. 2163; Gaz. vol. 140; p. 363.
- Skelton, F. A., Newton, Mass. Message-recording apparatus. No. 938,441; Oct. 26; Sp. p. 5978; Gaz. vol. 147; p. 1013.
- Skerl, F. (See Fronz, F., assignor.)
- Skidmore, C., Homer, assignor of forty-nine one-hundredths to J. E. Rumsey, Thurston county, Nebr. Grading-machine. No. 930,320; Aug. 3; Sp. p. 1464; Gaz. vol. 145; p. 233.
- Skidmore, F. R., Milwaukee, Wis. Ventilator attachment for hats. No. 925,604; June 22; Sp. p. 5244; Gaz. vol. 143; p. 923.
- Skidmore, J. J., Boston, Mass., assignor to American Telephone and Telegraph Company. Telephone repeating apparatus and circuit. No. 912,908; Feb. 16; Sp. p. 3897; Gaz. vol. 139; p. 686.
- Skikiewicz, M., et al. (See Matlak, A., assignor.)
- Skiles, E. C. (See Barnard, J. W., assignor.)
- Skiles, R. M., and P. H. Baldwin, Creston; said Skiles assignor to J. F. Lawler, Adams county, Iowa. Folding egg-case. No. 929,634; July 27; Sp. p. 6056; Gaz. vol. 144; p. 1060.
- Skilling, W. H. (See True, W., assignor.)
- Skinner, A. A. and F. B., Greene, N. Y. Combined incubator and brooder. No. 944,383; Dec. 28; Sp. p. 5037; Gaz. vol. 149; p. 886.
- Skinner, C. E., Yonkers, N. Y. Glass-tube cutter. No. 936,674; Oct. 12; Sp. p. 2263; Gaz. vol. 147; p. 376.
- Skinner Chuck Company. (See North, A. A., assignor.)
- Skinner, E. G., Buffalo, N. Y. Holder for wing-point collars. No. 934,766; Sept. 21; Sp. p. 3595; Gaz. vol. 146; p. 627.
- Skinner, E. M., New York, N. Y. Trenching device. No. 926,145; June 29; Sp. p. 6400; Gaz. vol. 143; p. 1136.
- Skinner, E. M., New York, N. Y. Spade. No. 926,146; June 29; Sp. p. 6401; Gaz. vol. 143; p. 1136.
- Skinner, F. B. (See Skinner, A. A. and F. B.)
- Skinner, F. H., Rock Island, Ill. Paper-hanger's folding trestle. No. 925,520; June 22; Sp. p. 5082; Gaz. vol. 143; p. 894.
- Skinner, F. W., Tompkinsville, N. Y. Sheet-piling and means for driving or sinking the same. No. 912,496; Feb. 16; Sp. p. 3031; Gaz. vol. 139; p. 548.
- Skinner, F. W., Tompkinsville, N. Y. Locking the joints of adjacent units of sheet-piling or other structural elements. No. 912,497; Feb. 16; Sp. p. 3034; Gaz. vol. 139; p. 549.
- Skinner, F. W., Tompkinsville, N. Y. Concrete floor. No. 915,801; Mar. 23; Sp. p. 4432; Gaz. vol. 140; p. 787.
- Skinner, F. W., Tompkinsville, N. Y. Constructing and erecting reinforced-concrete beams, girders, and arch-ribs. No. 939,642; Nov. 9; Sp. p. 2645; Gaz. vol. 148; p. 437.
- Skinner, G. P., Kanorado, Kans. Envelop. No. 917,369; Apr. 6; Sp. p. 837; Gaz. vol. 141; p. 143.
- Skinner, G. P., Milwaukee, Wis. Clip-securing mechanism. No. 930,804; Aug. 10; Sp. p. 2420; Gaz. vol. 145; p. 419.
- Skinner, G. W., Giltmore, Mich. Combined wire stretcher and splicer. No. 935,699; Oct. 5; Sp. p. 162; Gaz. vol. 147; p. 26.
- Skinner, J. M. (See Cooper, F. J., assignor.)
- Skinner, M. T., Rule, Tex. Canopy-suspending attachment for bedsteads. No. 929,035; July 27; Sp. p. 4823; Gaz. vol. 144; p. 863.
- Skinner, P. R., Amsterdam, N. Y. Root-canal-filling dental injector. No. 921,015; May 11; Sp. p. 1872; Gaz. vol. 142; p. 332.
- Skinner, R. V., Clinton, Iowa. Hat-pin. No. 927,888; July 13; Sp. p. 2477; Gaz. vol. 144; p. 423.
- Skipworth, E. W., Chicago, Ill. Combination skid and truck. No. 924,282; June 8; Sp. p. 2591; Gaz. vol. 143; p. 422.
- Sklar, J., Brooklyn, N. Y. Ecraseur or castrating instrument. No. 922,350; May 18; Sp. p. 4610; Gaz. vol. 142; p. 801.
- Skogsberg, J. A., Chicago, Ill. Bath-tub seat. No. 941,544; Nov. 30; Sp. p. 6825; Gaz. vol. 148; p. 1156.
- Skorness, M., Appleton, Minn. Flower-pot cover. No. 915,897; Mar. 23; Sp. p. 4616; Gaz. vol. 140; p. 818.
- Skov, S. R., and T. Scullin, Cleveland, Ohio. Door for passenger-cars. No. 916,045; Mar. 23; Sp. p. 4892; Gaz. vol. 140; p. 866.
- Skreberg, H., Big Bend township, Chippewa county, Minn. Mail-box support. No. 928,075; July 13; Sp. p. 2846; Gaz. vol. 144; p. 485.
- Skubis, J., New York, N. Y. Valve mechanism for autopneumatic pianos. No. 909,242; Jan. 12; Sp. p. 1662; Gaz. vol. 138; p. 299.
- Skubis, J., New York, N. Y. Combined brake and rewinder for automatic musical instruments. No. 925,665; June 22; Sp. p. 5375; Gaz. vol. 143; p. 665.
- Slack, G. M., Altoona, Pa. Folding box. No. 924,504; June 8; Sp. p. 3029; Gaz. vol. 143; p. 495.
- Slade, C. T., New York, N. Y. Hand-bag. No. 910,875; Jan. 26; Sp. p. 4993; Gaz. vol. 138; p. 901.
- Slade, J. W., and B. F. Downs, Richburg, Miss. Ship-table. No. 933,351; Sept. 7; Sp. p. 716; Gaz. vol. 146; p. 111.
- Slady, F. W., assignor to Bryant Electric Company, Bridgeport, Conn. Incandescent-lamp socket. No. 941,174; Nov. 23; Sp. p. 6026; Gaz. vol. 148; p. 1013.
- Slaffter, O. H., Los Angeles, Cal. Mechanical movement. No. 922,532; May 25; Sp. p. 5014; Gaz. vol. 142; p. 891.
- Slager, F. W. (See Hurley and Slager.)
- Slager, H. L., Springfield, Ohio. Abrasive wheel. No. 920,199; May 4; Sp. p. 220; Gaz. vol. 142; p. 34.
- Slaght, M. S., and T. J. Kelly, Everett, Wash. Friction-clutch. No. 923,494; Sept. 7; Sp. p. 1106; Gaz. vol. 146; p. 158.
- Sialine, G. J., Cincinnati, Ohio. Smoke-consuming furnace. No. 930,423; Aug. 10; Sp. p. 1612; Gaz. vol. 145; p. 292.
- Slankard, C. H., Grayville, Ill. Land-roller. No. 919,967; Apr. 27; Sp. p. 6425; Gaz. vol. 141; p. 1098.
- Slater, C. J., assignor of one-half to P. L. Williamson, Oakland, Cal. Vehicle-frame. No. 922,351; May 18; Sp. p. 4611; Gaz. vol. 142; p. 801.
- Slater, H. W., Lake Mahopac, assignor to National Machine Company, Mamaroneck, N. Y. Thread-trimming device for sewing-machines. No. 908,619; Jan. 5; Sp. p. 394; Gaz. vol. 138; p. 64.
- Slater, J. A., assignor to National Malleable Castings Company, Cleveland, Ohio. Hub-band. No. 921,294; May 11; Sp. p. 2456; Gaz. vol. 142; p. 427.
- Slater, M. (See Heywang and Slater.)
- Slater, R. F., St. Paul, Minn. Baggage-roller. No. 913,777; Mar. 2; Sp. p. 213; Gaz. vol. 140; p. 36.
- Slater, W. D., assignor to United States Envelope Company, Springfield, Mass. Envelop-machine. No. 923,720; June 1; Sp. p. 1332; Gaz. vol. 143; p. 207.
- Slattery, J., Chrome, N. J., assignor to Canda Brothers, New York, N. Y. Car-wheel and making the same. No. 925,394; June 15; Sp. p. 4820; Gaz. vol. 143; p. 823.
- Slattery, W. P., St. Louis, Mo. Fire-escape. No. 924,283; June 8; Sp. p. 2592; Gaz. vol. 143; p. 423.
- Slaughter, G. W., Jr., assignor of one-half to W. McDonald, San Augustine, Tex. Carbureter for explosive-motors. No. 913,313; Feb. 23; Sp. p. 4726; Gaz. vol. 139; p. 847.
- Slaughter, L. T., assignor of one-half to W. M. Myers, Richmond, Va. Shears. No. 920,092; Apr. 27; Sp. p. 6712; Gaz. vol. 141; p. 1139.
- Slaven, J. W., assignor of one-half to F. M. Connolly, Galesburg, Ill. Railway-car. No. 937,106; Oct. 19; Sp. p. 3117; Gaz. vol. 147; p. 548.
- Slavček, V., Vienna, Austria-Hungary. Apparatus for the fractional distillation, condensation, and rectification of liquids. No. 926,216; June 29; Sp. p. 6576; Gaz. vol. 143; p. 1161.
- Slavin, N., New York, N. Y. Fire-escape. No. 920,200; May 4; Sp. p. 222; Gaz. vol. 142; p. 34.
- Slaysman, A., Jr. (See Brakeley, J., assignor.)
- Slaysman, A., Jr., Hamilton, Md. Machine for feeding sheet-metal blanks. No. 934,848; Sept. 21; Sp. p. 3770; Gaz. vol. 146; p. 654.
- Slayter, E. E., Cambridge, Mass. Box-making machine. No. 932,503; Aug. 31; Sp. p. 6080; Gaz. vol. 145; p. 1054.
- Slayton, E. M., Gloversville, N. Y. Attachment to cement posts. No. 928,807; July 20; Sp. p. 4351; Gaz. vol. 144; p. 759.
- Sleaford, W. M., Brighton, Mich. Spark-plug. No. 932,338; Aug. 24; Sp. p. 5729; Gaz. vol. 145; p. 977.
- Slee, A. L., Berkeley, Cal. Changeable-speed transmission mechanism. No. 939,643; Nov. 9; Sp. p. 2647; Gaz. vol. 148; p. 437.
- Sleeper, C. W., Lancaster, N. H. Can-soldering machine. No. 939,104; Nov. 2; Sp. p. 1384; Gaz. vol. 148; p. 226.
- Sleeper, F. H., Coaticook, Quebec, Canada, assignor to Morgan Spring Company, Worcester, Mass. Machine for making coiled springs. No. 940,828; Nov. 23; Sp. p. 5291; Gaz. vol. 148; p. 898.



*Alphabetical list of patentees—Continued.*

- Sleeper, O. S., assignor to Buffalo Foundry Company, Buffalo, N. Y. Discharge-valve. No. 919,787; Apr. 27; Sp. p. 6042; Gaz. vol. 141; p. 1039.
- Sleeper, O. S., assignor to Buffalo Foundry Company, Buffalo, N. Y. Discharge-valve. No. 920,201; May 4; Sp. p. 225; Gaz. vol. 142; p. 35.
- Slentz, A. O., assignor of one-half to Canton Foundry & Machine Company, Canton, Ohio. Attachment for drop-presses. No. 923,904; June 8; Sp. p. 1798; Gaz. vol. 143; p. 299.
- Slentz, A. O., assignor of one-half to Canton Foundry & Machine Company, Canton, Ohio. Turn-table. No. 926,147; June 29; Sp. p. 6402; Gaz. vol. 143; p. 1137.
- Sletto, O. K., assignor of one-third to E. Peterson and one-third to P. Spilman, Blackduck Minn. Attachment for cash-registers. No. 931,349; Aug. 17; Sp. p. 3661; Gaz. vol. 145; p. 632.
- Slichter, F. A., Kansas City, Mo., assignor of one-half to W. H. Hoagland, El Paso, Ill. Vending-machine. No. 936,051; Oct. 5; Sp. p. 959; Gaz. vol. 147; p. 143.
- Slick, E. E., Pittsburg, Pa. Method of and apparatus for forging metal. No. 915,232; Mar. 16; Sp. p. 3267; Gaz. vol. 140; p. 571.
- Slick, E. E., Pittsburg, Pa. Making producer-gas. No. 921,173; May 11; Sp. p. 2197; Gaz. vol. 142; p. 387.
- Slick, E. E., Pittsburg, Pa. Sectional wheel. No. 932,064; Aug. 24; Sp. p. 5199; Gaz. vol. 145; p. 887.
- Slick, E. E., Pittsburg, Pa. Hoop-beading machine. No. 943,478; Dec. 14; Sp. p. 3102; Gaz. vol. 149; p. 522.
- Sliding Blade Shear Company. (See Polley, F. S., assignor.)
- Slifer, C. F., Philadelphia, Pa. Drinking-fount for poultry. No. 932,590; Aug. 31; Sp. p. 6269; Gaz. vol. 145; p. 1084.
- Slifer, G. W., Philadelphia, Pa. Collar. No. 927,889; July 13; Sp. p. 2479; Gaz. vol. 144; p. 423.
- Slinack, V. H., assignor to Pennsylvania Globe Gas Light Company, Philadelphia, Pa. Time mechanism for operating gas and other valves. No. 944,988; Dec. 28; Sp. p. 6360; Gaz. vol. 149; p. 1091.
- Slingerland, D. C., *et al.* (See Ellery, S., assignor.)
- Slingerland, F. N., *et al.* (See Ellery, S., assignor.)
- Slinghart, E. G. (See Daggett and Slinghart.)
- Slip Scarf Company. (See Close, G. L., assignor.)
- Slip Scarf Company. (See Keys, W. A., assignor.)
- Slipper, A. E., assignor of one-half to D. J. Smith, Kokiri, Greymouth, New Zealand. Belt-fastener. No. 925,521; June 22; Sp. p. 5083; Gaz. vol. 145; p. 895.
- Sloan, A. C., Salamanca, N. Y. Trolley-wheel bearing. No. 919,968; Apr. 27; Sp. p. 6426; Gaz. vol. 141; p. 1098.
- Sloan, J. R. (See Bender, C. W., assignor.)
- Sloan, W. E., Sioux City, Iowa. Collapsible oven. No. 913,570; Feb. 23; Sp. p. 5274; Gaz. vol. 139; p. 934.
- Sloane, G. H., Boston, Mass., assignor of one-half to H. B. Waters and H. Plimpton. Automatic signaling system for railways. No. 942,468; Dec. 7; Sp. p. 921; Gaz. vol. 149; p. 149.
- Sloane, W. L., and J. S. Owsley, Owensboro, Ky. Transfer-press. No. 936,954; Oct. 12; Sp. p. 2813; Gaz. vol. 147; p. 469.
- Sloane, W. L., and J. S. Owsley, Owensboro, Ky. Printing-machine. No. 941,106; Nov. 23; Sp. p. 5867; Gaz. vol. 148; p. 989.
- Slockett, F. R., Fort Collins, Colo. Metallic cross-tie. No. 922,968; May 25; Sp. p. 5923; Gaz. vol. 142; p. 1032.
- Slocumb, C. H., Hartford, Conn. Block for sewer construction. No. 912,428; Feb. 16; Sp. p. 2898; Gaz. vol. 139; p. 526.
- Slocumb, F. F., Wilmington, Del. Leather-staking-machine table. No. 927,609; July 13; Sp. p. 1874; Gaz. vol. 144; p. 331.
- Slocumb, F. F., and W. E. Poinselt, assignors to F. F. Slocumb & Company, Incorporated, Wilmington, Del. Attachment to leather-seasoning machines. No. 930,700; Aug. 10; Sp. p. 2209; Gaz. vol. 145; p. 385.
- Slocum, B. A., assignor to Boston Machine Works Company, Lynn, Mass. Vamp-folding machine. No. 918,383; Apr. 13; Sp. p. 2882; Gaz. vol. 141; p. 509.
- Slocum, W. W., Detroit, Mich. Game apparatus. No. 931,020; Aug. 10; Sp. p. 2919; Gaz. vol. 145; p. 490.
- Sloggett, L. O., Chicago, Ill. Plumb-bob. No. 928,477; July 20; Sp. p. 3699; Gaz. vol. 144; p. 650.
- Sloper, T., Devizes, England. Compound cord for use in cord fabrics. No. 913,856; Mar. 2; Sp. p. 374; Gaz. vol. 140; p. 63.
- Sloper, T., Devizes, England. Fluid-pressure-indicating device. No. 932,504; Aug. 31; Sp. p. 6082; Gaz. vol. 145; p. 1055.
- Sloper, W. A., Independence, Oreg. Hop-trellis-wire dropper. No. 934,023; Sept. 14; Sp. p. 2143; Gaz. vol. 146; p. 355.
- Slough, F. M., assignor to Dean Electric Company, Elyria, Ohio. Electrical signaling system. No. 932,505; Aug. 31; Sp. p. 6085; Gaz. vol. 145; p. 1055.
- Slough, F. M., assignor to Dean Electric Company, Elyria, Ohio. Transformer. No. 937,877; Oct. 26; Sp. p. 4751; Gaz. vol. 147; p. 821.
- Slough, F. M., assignor, by mesne assignments, to Dean Electric Company, Elyria, Ohio. Electrical signaling system. No. 938,345; Oct. 26; Sp. p. 5757; Gaz. vol. 147; p. 980.
- Slusher, W. A., Milwaukee, Wis. Reversing-gear. No. 912,498; Feb. 16; Sp. p. 3035; Gaz. vol. 139; p. 549.
- Slusher, W. A., Independence, Kans. Reversing-gearing. No. 937,878; Oct. 26; Sp. p. 4756; Gaz. vol. 147; p. 822.
- Slyder, W. J., Troy, Ohio. Head and rib for vehicle-canopies. No. 932,339; Aug. 24; Sp. p. 5731; Gaz. vol. 145; p. 978.
- Small, C. T., Malden, and W. N. Shelton, Newtonville, assignors to Franklin Rubber Company, Boston, Mass. Garment No. 939,176; Nov. 2; Sp. p. 1554; Gaz. vol. 145; p. 252.
- Small, E. F., assignor of one-half to W. E. Ragan, Atlanta, Ga. Abdominal supporter. No. 937,724; Oct. 19; Sp. p. 4427; Gaz. vol. 147; p. 751.
- Small, H. J., San Francisco, Cal. Train-number indicator for locomotives. No. 920,403; May 4; Sp. p. 635; Gaz. vol. 142; p. 101.
- Small, H. T., Fulton, Mo. Package tie or holder. No. 916,208; Mar. 23; Sp. p. 5189; Gaz. vol. 140; p. 919.
- Small, T. W., assignor to Acme Automatic Street Indicating Company, Cleveland, Ohio. Overhead electric contact. No. 937,107; Oct. 19; Sp. p. 3119; Gaz. vol. 147; p. 548.
- Small, W. E., assignor of one-half to H. Holiner, Brooklyn, N. Y. Combined trimming and channeling machine. No. 914,318; Mar. 2; Sp. p. 1415; Gaz. vol. 140; p. 218.
- Smalley, H. R. (See Smalley, W. H. and H. R.)
- Smalley, W. H. and H. R., Corning, Ark. Telegraph-pole. No. 928,478; July 20; Sp. p. 3701; Gaz. vol. 144; p. 651.
- Smalley, W. H., and E. Hatton, Havana, Ill. Ash-handling apparatus. No. 933,129; Sept. 7; Sp. p. 192; Gaz. vol. 146; p. 32.
- Smalley, W. L., Hopedale, Ill. Clothes-rack. No. 927,082; July 6; Sp. p. 813; Gaz. vol. 144; p. 129.
- Smallman, J. W., Nuneaton, England. Haulage-clip. No. 941,049; Nov. 23; Sp. p. 5750; Gaz. vol. 148; p. 971.
- Smallwood, C. S., Chokoloskee, Fla. Window-sash. No. 911,619; Feb. 9; Sp. p. 1181; Gaz. vol. 139; p. 224.
- Smallwood, F. T. (See Baumwart, A. C., assignor.)
- Smallwood, G. M., Riverside, Cal. Tire-heater. No. 916,209; Mar. 23; Sp. p. 5191; Gaz. vol. 140; p. 919.
- Smart, C., Hendrum, Minn. Gang-plow. No. 933,858; Sept. 14; Sp. p. 1832; Gaz. vol. 146; p. 303.
- Smart, E. H., London, England. Edge-retainer for carpets and the like. No. 944,698; Dec. 28; Sp. p. 5748; Gaz. vol. 149; p. 995.
- Smart, J. S., Detroit, Mich. Gearing. No. 936,376; Oct. 12; Sp. p. 1624; Gaz. vol. 147; p. 275.
- Smart, S. M., Zenda, Kans. Wagon hoister and dumper. No. 913,170; Feb. 23; Sp. p. 4431; Gaz. vol. 139; p. 799.
- Smartt, B., assignor to T. M. Steger, Nashville, Tenn. Valve-gear. No. 935,169; Sept. 28; Sp. p. 4414; Gaz. vol. 146; p. 789.
- Smelansky, N., New York, N. Y. Driving mechanism. No. 934,224; Sept. 14; Sp. p. 2555; Gaz. vol. 146; p. 422.
- Smerling, C., Lynn, Mass. Crucible melting-furnace. No. 914,609; Mar. 9; Sp. p. 2002; Gaz. vol. 140; p. 342.
- Smethport Glass Company. (See Douchamp, H., assignor.)
- Smethurst, H., Hollinwood, England. Apparatus for removing dust and foul gases from carding-engines and the like. No. 928,158; July 13; Sp. p. 2993; Gaz. vol. 144; p. 512.
- Smick, M. M., Fort Wayne, Ind. Loose-leaf binder. No. 926,901; July 6; Sp. p. 404; Gaz. vol. 144; p. 66.
- Smiejkowski, L., Chicago, Ill. Foldable table or stool. No. 937,479; Oct. 19; Sp. p. 3947; Gaz. vol. 147; p. 670.
- Smiley, F. L., Botetourt county, Va. Tomato-knife. No. 908,894; Jan. 5; Sp. p. 955; Gaz. vol. 138; p. 152.
- Smiley, F. M., Goshen, Ind. Draft appliance. No. 941,545; Nov. 30; Sp. p. 6827; Gaz. vol. 148; p. 1156.
- Smiley, L. D. (See Sisler and Smiley.)
- Smisor, J. E. (See Wise, Troyer, and Smisor.)
- Smith, A., Traverse City, Mich. Machine for making clothes-pins. No. 918,708; Apr. 20; Sp. p. 3645; Gaz. vol. 141; p. 646.
- Smith, A., assignor to Bergen Point Iron Works, New York, N. Y. Wheelbarrow hoisting-bucket. No. 913,241; Feb. 23; Sp. p. 4582; Gaz. vol. 139; p. 822.
- Smith, A., North Plainfield, N. J., assignor to Bergen Point Iron Works, New York, N. Y. Hoisting appliance. No. 929,508; July 27; Sp. p. 5798; Gaz. vol. 144; p. 1018.
- Smith, A. A., Malaga, N. J. Adjustable curtain or shade fixture. No. 908,810; Jan. 5; Sp. p. 787; Gaz. vol. 138; p. 124.
- Smith, A. A., Bedford, Iowa. Adjustable shelving. No. 923,721; June 1; Sp. p. 1334; Gaz. vol. 143; p. 208.
- Smith, A. B., Binghamton, N. Y. Cigar-box. No. 909,699; Jan. 12; Sp. p. 2549; Gaz. vol. 138; p. 452.
- Smith, A. C., Hobart, Okla. Speed-varying mechanism. No. 942,416; Dec. 7; Sp. p. 799; Gaz. vol. 149; p. 130.
- Smith, A. C. G., London, and E. H. J. C. Gillett, Hounslow, England. Variable-speed and reversing gearing. No. 924,847; June 15; Sp. p. 3763; Gaz. vol. 143; p. 644.
- Smith, A. D., Mount Vernon, N. Y. Garment-form. No. 943,125; Dec. 14; Sp. p. 2372; Gaz. vol. 149; p. 403.
- Smith, A. E., Chicago, Ill. Coin receptacle and delivering device. No. 911,274; Feb. 2; Sp. p. 500; Gaz. vol. 139; p. 86.
- Smith, A. E., Chicago, Ill. Air-engine. No. 920,202; May 4; Sp. p. 226; Gaz. vol. 142; p. 35.

*Alphabetical list of patentees—Continued.*

- Smith, A. E., South Bend, Ind. Foot-rest for vehicles. No. 912,429; Feb. 16; Sp. p. 2899; Gaz. vol. 139; p. 526.
- Smith, A. E., South Bend, Ind. Dust-guard. No. 925,141; June 15; Sp. p. 4359; Gaz. vol. 143; p. 744.
- Smith, A. E., South Bend, Ind. Shifting-rail for vehicle-seats. No. 942,292; Dec. 7; Sp. p. 565; Gaz. vol. 149; p. 89.
- Smith, A. E., Brooklyn, N. Y. Jetty or jetty-wall. No. 919,788; Apr. 27; Sp. p. 6044; Gaz. vol. 141; p. 1039.
- Smith, A. E., assignor to T. L. Smith Company, Milwaukee, Wis. Power charging device for concrete-mixers. No. 939,341; Nov. 9; Sp. p. 1970; Gaz. vol. 143; p. 335.
- Smith, A. E. J., Battersea, London, England. Resilient hub for wheels. No. 920,404; May 4; Sp. p. 636; Gaz. vol. 142; p. 102.
- Smith, A. F., Albert Park, near Melbourne, Victoria, Australia. Mariner's compass. No. 918,709; Apr. 20; Sp. p. 3648; Gaz. vol. 141; p. 647.
- Smith, A. F., Reading, Pa. Ventilating-window. No. 923,450; June 1; Sp. p. 765; Gaz. vol. 143; p. 113.
- Smith, A. F., Pittsburg, Pa., assignor to Wyckoff, Seamans & Benedict, Iliion, N. Y. Type-writing machine. No. 930,499; Aug. 10; Sp. p. 1758; Gaz. vol. 145; p. 317.
- Smith, A. H., Toronto, Ontario, Canada. Amusement device. No. 909,953; Jan. 19; Sp. p. 3081; Gaz. vol. 138; p. 569.
- Smith, A. H. and L. L., Herman, Nebr. Wheeled scraper. No. 914,610; Mar. 9; Sp. p. 2003; Gaz. vol. 140; p. 342.
- Smith, A. J., assignor of one-half to F. R. Baker, Chicago, Ill. Phonographic needle. No. 940,486; Nov. 16; Sp. p. 4533; Gaz. vol. 148; p. 759.
- Smith, A. J., Bath, Me., assignor to Electric Goods Manufacturing Company. Electric annunciator. No. 935,935; Oct. 5; Sp. p. 718; Gaz. vol. 147; p. 105.
- Smith, A. J., Fishkill-on-the-Hudson, assignor of one-half to M. C. Smith, Matteawan, N. Y. Carousel. No. 938,283; Oct. 26; Sp. p. 5607; Gaz. vol. 147; p. 959.
- Smith, A. L., McConnellsville, Ohio. Friction-clutch. No. 932,340; Aug. 24; Sp. p. 5734; Gaz. vol. 145; p. 978.
- Smith, A. L., New York, N. Y. Carton. No. 944,467; Dec. 28; Sp. p. 5232; Gaz. vol. 149; p. 916.
- Smith, A. M., Portland, Me. Trawl-setter. No. 921,902; May 18; Sp. p. 3729; Gaz. vol. 142; p. 657.
- Smith, A. O. (See Leiger, G. F., assignor.) (Reissue.)
- Smith, A. P., Newark, N. J. Gate-valve. No. 922,636; May 25; Sp. p. 5231; Gaz. vol. 142; p. 925.
- Smith, A. R., Marion, Ind. Collapsible arch-centering form. No. 938,718; Nov. 2; Sp. p. 585; Gaz. vol. 143; p. 92.
- Smith, A. S., New York, N. Y. Map-case. No. 921,901; May 18; Sp. p. 3728; Gaz. vol. 142; p. 657.
- Smith, A. W., New York, assignor to Yost Writing Machine Company, Iliion, N. Y. Type-writing machine. No. 911,275; Feb. 2; Sp. p. 502; Gaz. vol. 139; p. 86.
- Smith, A. W., New York, assignor to Yost Writing Machine Company, Iliion, N. Y. Type-writing machine. No. 930,625; Aug. 10; Sp. p. 2064; Gaz. vol. 145; p. 361.
- Smith Automatic Box Machinery Company. (See Smith, G. A., assignor.)
- Smith, B. A., et al. (See Richardson, C. H., assignor.)
- Smith, B. F. (See Davis, W. S., assignor.)
- Smith, B. M., assignor of one-third to A. M. Fitzgerald and A. H. Vayo, Springfield, Ill. Manicure implement. No. 915,047; Mar. 9; Sp. p. 2855; Gaz. vol. 140; p. 484.
- Smith, B. W. (See Bain and Smith.)
- Smith, C., Slemdal, near Christiania, Norway. Apparatus for lowering ships' boats. No. 910,594; Jan. 26; Sp. p. 4452; Gaz. vol. 138; p. 812.
- Smith, C., Topeka, Kans. Derrick. No. 921,295; May 11; Sp. p. 2457; Gaz. vol. 142; p. 428.
- Smith, C., Worcester, Mass. Grinding-machine. No. 930,626; Aug. 10; Sp. p. 2069; Gaz. vol. 145; p. 362.
- Smith, C., South Croydon, England. Fire and temperature alarm or indicator. No. 934,225; Sept. 14; Sp. p. 2556; Gaz. vol. 146; p. 422.
- Smith, C., assignor to Charles Smith Company, Chicago, Ill. Grate and ash-pit for furnaces. No. 908,510; Jan. 5; Sp. p. 156; Gaz. vol. 138; p. 28.
- Smith, C., assignor to Charles Smith Company, Chicago, Ill. Water-heater attachment for hot-air furnaces. No. 932,065; Aug. 24; Sp. p. 5200; Gaz. vol. 145; p. 887.
- Smith, C. A., Waterloo, Iowa. Knockdown crate. No. 911,276; Feb. 2; Sp. p. 507; Gaz. vol. 139; p. 87.
- Smith, C. A., Philadelphia, Pa. Carpet-sweeper. No. 919,479; Apr. 27; Sp. p. 5427; Gaz. vol. 141; p. 934.
- Smith, C. A. H., San Francisco, Cal. Hat-ventilating attachment. No. 935,556; Sept. 28; Sp. p. 5210; Gaz. vol. 146; p. 914.
- Smith, C. C., Buechel, Ky. Onion-set digger. No. 915,233; Mar. 16; Sp. p. 3269; Gaz. vol. 140; p. 571.
- Smith, C. D., Morgantown, W. Va., assignor of one-half to M. G. Webb, Baltimore, Md. Garment-fastener. No. 924,614; June 29; Sp. p. 7317; Gaz. vol. 143; p. 1291.
- Smith, C. E., Paterson, N. J. Napkin-holder. No. 910,153; Jan. 19; Sp. p. 3463; Gaz. vol. 138; p. 634.
- Smith, C. E., assignor to North & Judd Mfg. Company, New Britain, Conn. Lever-buckle. No. 940,829; Nov. 23; Sp. p. 5296; Gaz. vol. 148; p. 898.
- Smith, C. F. (See Kelly, J. G., assignor.)
- Smith, C. F., and G. E. Curtiss, assignors to Landers, Frary and Clark, New Britain, Conn. Tea or coffee pot. No. 940,081; Nov. 16; Sp. p. 3629; Gaz. vol. 148; p. 619.
- Smith, C. G. (See Hampton and Smith.)
- Smith, C. H., Lebanon, Pa. Electric railway-signal. No. 908,895; Jan. 5; Sp. p. 955; Gaz. vol. 138; p. 152.
- Smith, C. H., Rockford, Ill. Child's folding carriage. No. 924,008; June 8; Sp. p. 1997; Gaz. vol. 143; p. 331.
- Smith, C. H., Scranton, Pa. Valve. No. 940,621; Nov. 16; Sp. p. 4813; Gaz. vol. 148; p. 802.
- Smith, C. H., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Connecting-jack for telephone-switchboards. No. 911,338; Feb. 2; Sp. p. 617; Gaz. vol. 139; p. 106.
- Smith, C. H., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Party-line indicating-key. No. 911,339; Feb. 2; Sp. p. 619; Gaz. vol. 139; p. 106.
- Smith, C. H., assignor of one-third to L. C. Smith and one-third to H. L. Smith, Minneapolis, Minn. Air heating and circulating system. No. 930,424; Aug. 10; Sp. p. 1613; Gaz. vol. 145; p. 292.
- Smith, C. H., and M. F. Weidenbach; said Weidenbach assignor to Manuel-Smith Heating Company, Minneapolis, Minn. Fresh air-intake device for heating-systems. No. 926,217; June 29; Sp. p. 6580; Gaz. vol. 143; p. 1162.
- Smith, C. J., assignor to Hardsocg Wonder Drill Co., Incorporated, Ottumwa, Iowa. Rock-drill sharpening and shaping machine. No. 919,969; Apr. 27; Sp. p. 6428; Gaz. vol. 141; p. 1098.
- Smith, C. J., assignor to Hardsocg Wonder Drill Co., Ottumwa, Iowa. Wire-working implement. No. 927,691; July 13; Sp. p. 2060; Gaz. vol. 144; p. 358.
- Smith, C. J., assignor to Hardsocg Wonder Drill Co., Ottumwa, Iowa. Wire-working implement. No. 942,017; Nov. 30; Sp. p. 7810; Gaz. vol. 148; p. 1315.
- Smith, C. J., assignor to Hardsocg Wonder Drill Co., Ottumwa, Iowa. Pipe-coupling. No. 943,900; Dec. 21; Sp. p. 4031; Gaz. vol. 149; p. 696.
- Smith, C. J., assignor to Hardsocg Wonder Drill Company, Incorporated, Ottumwa, Iowa. Rock-drill-sharpening machine. No. 920,093; Apr. 27; Sp. p. 6713; Gaz. vol. 141; p. 1139.
- Smith, C. L., Ponca, Nebr. Gate-hook. No. 940,205; Nov. 16; Sp. p. 3906; Gaz. vol. 148; p. 663.
- Smith, C. L., assignor to Gullberg & Smith, New York, N. Y. Signature-gatherer. No. 934,365; Sept. 14; Sp. p. 2812; Gaz. vol. 146; p. 469.
- Smith, C. M., Los Angeles, Cal. Reversible window-sash. No. 909,243; Jan. 12; Sp. p. 1663; Gaz. vol. 138; p. 299.
- Smith, C. M., Los Angeles, Cal. Sash-balance. No. 914,319; Mar. 2; Sp. p. 1418; Gaz. vol. 140; p. 219.
- Smith, C. N., St. Thomas, Ontario, Canada. Brake-shoe key. No. 941,107; Nov. 23; Sp. p. 5869; Gaz. vol. 148; p. 989.
- Smith, C. O., Quoque, N. Y. Bottle. No. 924,848; June 15; Sp. p. 3766; Gaz. vol. 143; p. 644.
- Smith, C. S., and D. H. Hadsell, assignors of one-third to T. D. Barry, Brockton, Mass. Machine for pressing and shaping the backs of shoes. No. 939,105; Nov. 2; Sp. p. 1387; Gaz. vol. 148; p. 226.
- Smith, C. W. (See Kelly and Smith.)
- Smith, C. W. (See Monteith, Sheldon, and Smith.)
- Smith, C. W. (See Vanderheyden, M. D., assignor.)
- Smith, C. W., Springfield, Ohio. Stove and the like. No. 910,876; Jan. 26; Sp. p. 4996; Gaz. vol. 138; p. 901.
- Smith, C. W., Haverhill, Mass. Trolley. No. 921,474; May 11; Sp. p. 2841; Gaz. vol. 142; p. 488.
- Smith, C. W., Sandusky, Ohio. Closure-fastener for bottle-shipping crates. No. 930,993; Aug. 10; Sp. p. 2853; Gaz. vol. 145; p. 481.
- Smith, C. W., Sandusky, Ohio. Reinforcing means for shipping-crates. No. 937,190; Oct. 19; Sp. p. 3310; Gaz. vol. 147; p. 576.
- Smith, C. W., Newark, N. J. Skirt-measuring device. No. 943,278; Dec. 14; Sp. p. 2681; Gaz. vol. 149; p. 453.
- Smith, C. W., assignor to William Galloway Company, Waterloo, Iowa. Manure-spreader. No. 911,620; Feb. 9; Sp. p. 1182; Gaz. vol. 139; p. 224.
- Smith, D., Cotulla, Tex. Water-bag. No. 916,046; Mar. 23; Sp. p. 4894; Gaz. vol. 140; p. 867.
- Smith, D., Kellerman, Ala. Spike-puller. No. 944,920; Dec. 28; Sp. p. 6224; Gaz. vol. 149; p. 1070.
- Smith, D. B., et al. (See Richardson, C. H., assignor.)
- Smith, D. B., Deerfield, N. Y. Muffler for explosive-engines. No. 932,723; Aug. 31; Sp. p. 6556; Gaz. vol. 145; p. 1129.
- Smith, D. C., and W. F. Gorton, Muncie, Ind. Rim for motor-car wheels. No. 944,514; Dec. 28; Sp. p. 5351; Gaz. vol. 149; p. 932.
- Smith, D. D., Jr. (See Bohan and Smith.)



*Alphabetical list of patentees—Continued.*

- Smith, D. J. (See Slipper, A. E., assignor.)  
 Smith, D. R. (See Drake and Smith.)  
 Smith, D. R. (See Fisk and Smith.)  
 Smith, E., Gordon, Pa. Cab-ventilator. No. 910,023; Jan. 19; Sp. p. 3206; Gaz. vol. 138; p. 592.  
 Smith, E. A., Ackworth, Iowa. Portable fruit-picker's ladder. No. 937,388; Oct. 19; Sp. p. 3731; Gaz. vol. 147; p. 639.  
 Smith, E. A., Fort Morgan, assignor of one-third to E. B. Smith, Loveland, and one-third to M. M. St. Claire, Fort Collins, Colo. Beet-puller. No. 933,352; Sept. 7; Sp. p. 718; Gaz. vol. 146; p. 112.  
 Smith, E. A. C. (See Peirce and Smith.)  
 Smith, E. A. C., Baltimore, Md. Copper-matte converter. No. 942,675; Dec. 7; Sp. p. 1330; Gaz. vol. 149; p. 219.  
 Smith, E. A. C., Baltimore, Md. Bessemerizing of copper matte. No. 943,280; Dec. 14; Sp. p. 2688; Gaz. vol. 149; p. 454.  
 Smith, E. B., *et al.* (See Smith, E. A., assignor.)  
 Smith, E. B., Scotland, Ontario, Canada. Heating apparatus. No. 937,879; Oct. 26; Sp. p. 4758; Gaz. vol. 147; p. 822.  
 Smith, E. C., Hinckley, Ill. Clutch. No. 916,377; Mar. 23; Sp. p. 5498; Gaz. vol. 140; p. 976.  
 Smith, E. C., Hinckley, Ill. Fertilizer-distributor. No. 930,098; Aug. 3; Sp. p. 1002; Gaz. vol. 145; p. 162.  
 Smith, E. C., Merkel, Tex. Hen's nest. No. 917,174; Apr. 6; Sp. p. 431; Gaz. vol. 141; p. 75.  
 Smith, E. C., Washington, D. C. Hygienic attachment for telephone-transmitters. No. 927,817; July 13; Sp. p. 2320; Gaz. vol. 144; p. 400.  
 Smith, E. C., Newton, Iowa. Coffee cleaning and grading machine. No. 940,989; Nov. 23; Sp. p. 5609; Gaz. vol. 148; p. 950.  
 Smith, E. C., Chicago, Ill. Paper-holder. No. 943,279; Dec. 14; Sp. p. 2686; Gaz. vol. 149; p. 454.  
 Smith, E. C., and A. Waterhouse, Pearl City, Hawaii. Apparatus for extracting wax. No. 922,637; May 25; Sp. p. 5234; Gaz. vol. 142; p. 926.  
 Smith, E. D., Delphi, Ind. Fluid-pressure hoist. No. 910,426; Jan. 19; Sp. p. 4078; Gaz. vol. 138; p. 730.  
 Smith, E. D., Pittsburgh, Pa. Wrench. No. 919,260; Apr. 20; Sp. p. 4918; Gaz. vol. 141; p. 825.  
 Smith, E. D., Pittsburgh, Pa. Combined garbage-can and rubbish-burner. No. 940,082; Nov. 16; Sp. p. 3630; Gaz. vol. 148; p. 619.  
 Smith, E. F., Corry, Pa. Apparatus for tanning hides. No. 917,370; Apr. 6; Sp. p. 838; Gaz. vol. 141; p. 144.  
 Smith, E. F., Bedford, Ohio. Pencil-sharpener. No. 932,724; Aug. 31; Sp. p. 6557; Gaz. vol. 145; p. 1129.  
 Smith, E. F., assignor to J. Anstice, Rochester, N. Y. Slicing-machine. No. 908,896; Jan. 5; Sp. p. 957; Gaz. vol. 138; p. 153.  
 Smith, E. H. (See Little, A. R., assignor.)  
 Smith, E. H., assignor of one-half to J. Beemer, Aberdeen, Wash. Ratchet die-stock. No. 929,036; July 27; Sp. p. 4825; Gaz. vol. 144; p. 863.  
 Smith, E. H., assignor of two-thirds to T. Mitchell, Aberdeen, Wash. Incandescent lamp. No. 931,807; Aug. 24; Sp. p. 4625; Gaz. vol. 145; p. 802.  
 Smith, E. H., assignor of one-half to T. Mitchell, Aberdeen, Wash. Incandescent lamp. No. 934,024; Sept. 14; Sp. p. 2144; Gaz. vol. 146; p. 355.  
 Smith, E. H. H. (See Smith, H. V., assignor.)  
 Smith, E. H. H., Bridgeport, Conn. Serving-platter. No. 924,849; June 15; Sp. p. 3767; Gaz. vol. 143; p. 645.  
 Smith, E. J., Columbus, Ohio. Churn. No. 929,038; July 27; Sp. p. 4829; Gaz. vol. 144; p. 863.  
 Smith, E. L., Burlingame, Kans. Reversing-gear. No. 914,980; Mar. 9; Sp. p. 2738; Gaz. vol. 140; p. 401.  
 Smith, E. L., Windsor, assignor of one-half to E. L. Weaver, Warrenton, N. C. Vending-machine. No. 914,320; Mar. 2; Sp. p. 1419; Gaz. vol. 140; p. 219.  
 Smith, E. L., and O. M. Davis, Marion, Ind. Door-fastener. No. 922,352; May 18; Sp. p. 4612; Gaz. vol. 142; p. 802.  
 Smith, E. M., New York, N. Y. Device for preventing creeping of railway-rails. No. 918,603; Apr. 20; Sp. p. 3349; Gaz. vol. 141; p. 609.  
 Smith, E. M., assignor to Quincy, Manchester, Sargent Company, New York, N. Y. Rail-brace. No. 909,954; Jan. 19; Sp. p. 3083; Gaz. vol. 138; p. 569.  
 Smith, E. M., assignor to W. R. Davis, trustee, New York, N. Y. Rail-joint. No. 922,533; May 25; Sp. p. 5016; Gaz. vol. 142; p. 891.  
 Smith, E. N., Freewater, Ore. Whiffletree-fender. No. 924,389; June 8; Sp. p. 2818; Gaz. vol. 143; p. 458.  
 Smith, E. R. (See Wood, R. N., assignor.)  
 Smith, E. R., Paris, Tex. Fountain drafting-pen. No. 929,037; July 27; Sp. p. 4827; Gaz. vol. 144; p. 863.  
 Smith, E. S., Niagara Falls, N. Y. Glue-tester. No. 911,277; Feb. 2; Sp. p. 508; Gaz. vol. 139; p. 87.  
 Smith, E. T. (See Borden, C. H., assignor.)  
 Smith, E. W., Philadelphia, Pa. Storage-battery plate. No. 911,168; Feb. 2; Sp. p. 288; Gaz. vol. 139; p. 51.  
 Smith, E. W., Philadelphia, Pa. Ozoneizer. No. 921,903; May 18; Sp. p. 3730; Gaz. vol. 142; p. 657.  
 Smith, E. W., Myrtle, Ore. Butt-hook. No. 923,722; June 1; Sp. p. 1335; Gaz. vol. 143; p. 208.  
 Smith, E. W., Horse Shoe, assignor of one-half to W. C. Jordan, Hendersonville, N. C. Hose-coupling. No. 925,959; June 22; Sp. p. 6012; Gaz. vol. 143; p. 1038.  
 Smith, E. W., Horse Shoe, assignor of one-half to W. C. Jordan, Hendersonville, N. C. Fire-plug. No. 926,027; June 22; Sp. p. 6148; Gaz. vol. 143; p. 1061.  
 Smith, E. Z., *et al.* (See Purdy, H. E., assignor.)  
 Smith, F. (See Deer and Smith.)  
 Smith, F., assignor of one-half to H. Hobbell, Philadelphia, Pa. Safety-switch. No. 925,395; June 15; Sp. p. 4822; Gaz. vol. 143; p. 824.  
 Smith, F., assignor of one-half to F. Y. Wilson, Northport, Wash. Wrench. No. 931,510; Aug. 17; Sp. p. 3973; Gaz. vol. 145; p. 685.  
 Smith, F. A., Naugatuck, Conn. Umbrella-notch. No. 911,169; Feb. 2; Sp. p. 289; Gaz. vol. 139; p. 51.  
 Smith, F. A., and D. L. O'Brien, San Francisco, Cal. Invalid's table. No. 937,480; Oct. 19; Sp. p. 3949; Gaz. vol. 147; p. 670.  
 Smith, F. B., Philadelphia, Pa. Interlocking friction-clutch. No. 920,203; May 4; Sp. p. 228; Gaz. vol. 142; p. 36.  
 Smith, F. C., Port Neches, Tex. Valve. No. 931,155; Aug. 17; Sp. p. 3237; Gaz. vol. 145; p. 565.  
 Smith, F. E., Hartford, Conn. Vulcanizer. No. 939,342; Nov. 9; Sp. p. 1971; Gaz. vol. 148; p. 335.  
 Smith, F. E., Ames, Iowa. Signaling system. No. 942,676; Dec. 7; Sp. p. 1331; Gaz. vol. 149; p. 219.  
 Smith, F. E., Brooklyn, N. Y. assignor to Yale and Towne Manufacturing Company, Stamford, Conn. Indicator for locks. No. 909,829; Jan. 12; Sp. p. 2801; Gaz. vol. 138; p. 494.  
 Smith, F. E., assignor of one-half to E. C. Bradford, Marshalltown, Iowa. Flat gate for molding-machines. No. 917,371; Apr. 6; Sp. p. 840; Gaz. vol. 141; p. 144.  
 Smith, F. E. S., St. Louis, Mo. Solitaire-board. No. 942,667; Dec. 7; Sp. p. 1320; Gaz. vol. 149; p. 217.  
 Smith, F. H., Portland, Ore. Ledger. No. 916,047; Mar. 23; Sp. p. 4895; Gaz. vol. 140; p. 867.  
 Smith, F. H., Pittsburg, Kans. Hub-plate for locomotive driving-wheels. No. 920,094; Apr. 27; Sp. p. 6715; Gaz. vol. 141; p. 1139.  
 Smith, F. L., Chicopee Falls, Mass. Rifle-telescope mounting. No. 911,621; Feb. 9; Sp. p. 1183; Gaz. vol. 139; p. 224.  
 Smith, F. L., Chicopee Falls, Mass. Telescope-mounting. No. 928,555; July 20; Sp. p. 3852; Gaz. vol. 144; p. 675.  
 Smith, F. L., Chicago, Ill., and T. B. Williams, assignors to Leavitt Machine Company, Orange, Mass. Valve-disk-cutting machine. No. 944,002; Dec. 21; Sp. p. 4246; Gaz. vol. 149; p. 731.  
 Smith, F. M., assignor of one-fourth to G. G. Mayger and one-fourth to L. Fluhrer, Mayger, Ore. Double-seated valve. No. 919,480; Apr. 27; Sp. p. 5428; Gaz. vol. 141; p. 935.  
 Smith, F. N., and C. F. Boothe, assignors to S. R. Dresser Manufacturing Company, Bradford, Pa. Clamping-ring for pipe-couplings. No. 944,748; Dec. 28; Sp. p. 5874; Gaz. vol. 149; p. 1012.  
 Smith, F. P. (See Josler, A., assignor.)  
 Smith, F. P. (See Martin, E. D., assignor.)  
 Smith, F. P. (See McClure, E., assignor.)  
 Smith, F. P., Kansas City, Mo., assignor of one-half to E. C. Lewis, Chicago, Ill., and J. H. Kitchen, Kansas City, Mo. Apparatus for purifying liquids. No. 924,285; June 8; Sp. p. 2594; Gaz. vol. 143; p. 423.  
 Smith, F. S., Philadelphia, Pa. Treating tobacco. No. 924,284; June 8; Sp. p. 2593; Gaz. vol. 143; p. 423.  
 Smith, F. W. (See Swallow and McCoy, assignors.)  
 Smith, F. W., Aberdeen, S. D. Spark-plug. No. 925,239; June 15; Sp. p. 4546; Gaz. vol. 143; p. 776.  
 Smith, F. W., Union, Ohio. Surgical stocking or casing. No. 932,066; Aug. 24; Sp. p. 5202; Gaz. vol. 145; p. 888.  
 Smith, F. W., New York, N. Y. Electric switch. No. 941,660; Nov. 30; Sp. p. 7065; Gaz. vol. 148; p. 1194.  
 Smith, F. W., Kansas City, Mo., assignor to American Recording Company. Ticket printing and vending machine. No. 923,085; May 25; Sp. p. 6162; Gaz. vol. 142; p. 1069.  
 Smith, F. W., and D. C. Conkling, New York, N. Y. Telegraph-key. No. 933,726; Sept. 7; Sp. p. 1566; Gaz. vol. 146; p. 237.  
 Smith, G., Baltimore, Md. Soldering device for can-soldering machines. No. 913,065; Feb. 23; Sp. p. 4214; Gaz. vol. 139; p. 763.  
 Smith, G., Los Angeles, Cal. Gas-burner. No. 924,390; June 8; Sp. p. 2819; Gaz. vol. 143; p. 458.  
 Smith, G. and M., Weyburn, Saskatchewan, Canada. Grain-drill tooth. No. 908,811; Jan. 5; Sp. p. 788; Gaz. vol. 138; p. 124.  
 Smith, G. A., Southwick, Brighton, England. Kinematograph apparatus for the production of colored pictures. No. 941,960; Nov. 20; Sp. p. 7705; Gaz. vol. 148; p. 1298.  
 Smith, G. A., assignor of eighty-three one-hundred-and-fourths to J. W. Hennessey, New York, N. Y., A. Letts, Los Angeles, Cal., and F. J. Ward, Brooklyn, N. Y. Platen-shift mechanism for type-writers. No. 910,427; Jan. 19; Sp. p. 4080; Gaz. vol. 138; p. 731.

*Alphabetical list of patentees—Continued.*

- Smith, G. A., South Hill, assignor to Smith Automatic Box Machinery Company, Incorporated, Richmond, Va. Box-stuff planing and sizing machine. No. 918,604; Apr. 20; Sp. p. 3351; Gaz. vol. 141; p. 609.
- Smith, G. A., New York, assignor of sixteen one-hundred-and-fourths to J. W. Hennessey, Richmond, N. Y., forty-six one-hundred-and-fourths to A. Leets, Los Angeles, Cal., and twenty-one one-hundred-and-fourths to F. H. Ward, Brooklyn, N. Y. Line-spacing mechanism for type-writers. No. 935,936; Oct. 5; Sp. p. 720; Gaz. vol. 147; p. 106.
- Smith, G. B., Anoka, Minn. Wire mattress. No. 909,244; Jan. 12; Sp. p. 1664; Gaz. vol. 138; p. 300.
- Smith, G. B., Anoka, Minn. Wire cable. No. 916,048; Mar. 23; Sp. p. 4897; Gaz. vol. 140; p. 867.
- Smith, G. B., Anoka, Minn. Wire-working machine. No. 921,016; May 11; Sp. p. 1874; Gaz. vol. 142; p. 332.
- Smith, G. B., Minneapolis, Minn. Interlocking hook for wire fabric. No. 933,130; Sept. 7; Sp. p. 193; Gaz. vol. 146; p. 33.
- Smith, G. E. (See Krantz and Smith.)
- Smith, G. E., Chicago, Ill. Drover's whip. No. 915,493; Mar. 16; Sp. p. 3776; Gaz. vol. 140; p. 657.
- Smith, G. E., Wellington, New Zealand. Rubber footwear. No. 920,676; May 4; Sp. p. 1195; Gaz. vol. 142; p. 192.
- Smith, G. E., and C. Hamell, Sharon, Pa. Bottle. No. 932,606; Aug. 31; Sp. p. 6089; Gaz. vol. 145; p. 1056.
- Smith, G. H., *et al.* (See Fischman, M., assignor.)
- Smith, G. H., Great Falls, Mont. Machine for calking horseshoes. No. 916,797; Mar. 90; Sp. p. 6340; Gaz. vol. 140; p. 1133.
- Smith, G. H., Forest Hill, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 912,193; Feb. 9; Sp. p. 2367; Gaz. vol. 139; p. 409.
- Smith, G. H., Forest Hill, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 918,480; Apr. 13; Sp. p. 3075; Gaz. vol. 141; p. 540.
- Smith, G. H., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 924,590; June 8; Sp. p. 3200; Gaz. vol. 143; p. 524.
- Smith, G. H., Easton, Pa., assignor to Acme Belting Company. Belt-fastener. No. 928,556; July 20; Sp. p. 3853; Gaz. vol. 144; p. 675.
- Smith, G. L., H. F. Graver, and J. J. Wiegand, East Toledo, Ohio. Nut-lock. No. 940,990; Nov. 23; Sp. p. 5611; Gaz. vol. 148; p. 951.
- Smith, G. M., *et al.* (See Wirgovit, J., assignor.)
- Smith, G. W. (See Mills and Smith.)
- Smith, G. W., Ottumwa, Iowa. Rock-drill making and sharpening machine. No. 927,181; July 6; Sp. p. 997; Gaz. vol. 144; p. 162.
- Smith, G. W., Dubuque, Iowa. Dart. No. 933,131; Sept. 7; Sp. p. 194; Gaz. vol. 146; p. 33.
- Smith, G. W., and C. C. Sanford, New Haven, Ohio. Well-drilling machine. No. 925,960; June 22; Sp. p. 6013; Gaz. vol. 143; p. 1039.
- Smith, G. W. M., Cape Girardeau, Mo. Folding crate. No. 929,718; Aug. 3; Sp. p. 164; Gaz. vol. 145; p. 29.
- Smith & Griggs Manufacturing Company. (See Lowrey, F. C., assignor.)
- Smith, H. (See Protheroe, Smith, and Way.)
- Smith, H., *et al.* (See Sebree, W. T., assignor.)
- Smith, H., Monroe, N. C. Optometer. No. 919,481; Apr. 27; Sp. p. 5430; Gaz. vol. 141; p. 935.
- Smith, H., Suffern, N. Y. Controller. No. 928,707; July 20; Sp. p. 4165; Gaz. vol. 144; p. 726.
- Smith, H., Chicago, Ill. Awning. No. 931,967; Aug. 24; Sp. p. 4984; Gaz. vol. 145; p. 853.
- Smith, H., Octavia, Nebr. Planter. No. 935,063; Sept. 28; Sp. p. 4201; Gaz. vol. 146; p. 753.
- Smith, H., assignor of one-half to J. A. Barger, Bellingham, Wash. Lawn-mower trimming attachment. No. 939,926; Nov. 9; Sp. p. 3250; Gaz. vol. 148; p. 535.
- Smith, H. A. (See Lamkin, L. D., assignor.)
- Smith, H. A., Gurley, Ala. Hay-rake. No. 930,994; Aug. 10; Sp. p. 2854; Gaz. vol. 145; p. 481.
- Smith, H. A., Columbus, Ohio. Attachment for phonographs. No. 941,546; Nov. 30; Sp. p. 6828; Gaz. vol. 148; p. 1156.
- Smith, H. A., Harrisburg, Pa. Envelop-opener. No. 943,103; Dec. 14; Sp. p. 2329; Gaz. vol. 149; p. 395.
- Smith, H. B., Worcester, Mass., assignor to Westinghouse Electric & Manufacturing Company. Transformer. No. 914,981; Mar. 9; Sp. p. 2740; Gaz. vol. 140; p. 462.
- Smith, H. B., Worcester, Mass., assignor to Westinghouse Electric & Manufacturing Company. Molded receptacle. No. 915,048; Mar. 9; Sp. p. 2856; Gaz. vol. 140; p. 484.
- Smith, H. B., Worcester, Mass., assignor to Westinghouse Electric & Manufacturing Company. Coil-winding apparatus. No. 933,792; Sept. 14; Sp. p. 1689; Gaz. vol. 146; p. 280.
- Smith, H. C. (See Smith, T. W., assignor.)
- Smith, H. D., *et al.* (See Crouch, F. J., assignor.)
- Smith, H. E. (See Akers, T. J., assignor.)
- Smith, H. E. (See Akers and Smith.)
- Smith, H. F., Lexington, Ohio. Apparatus for converting volatile hydrocarbons into fixed gas. No. 928,076; July 13; Sp. p. 2848; Gaz. vol. 144; p. 485.
- Smith, H. F., Lexington, Ohio. Generating producer-gas. No. 928,808; July 20; Sp. p. 4352; Gaz. vol. 144; p. 759.
- Smith, H. F., Lexington, Ohio. Grate for gas-producers and means for removing ashes therefrom. No. 928,809; July 20; Sp. p. 4353; Gaz. vol. 144; p. 759.
- Smith, H. F., Lexington, Ohio. Means for automatically controlling the steam-supply to producers. No. 933,592; Sept. 7; Sp. p. 1289; Gaz. vol. 146; p. 191.
- Smith, H. F., Lexington, Ohio. Pressure-regulator. No. 938,346; Oct. 26; Sp. p. 5761; Gaz. vol. 147; p. 980.
- Smith, H. F., Richmond, Va. Latch. No. 932,507; Aug. 31; Sp. p. 6090; Gaz. vol. 145; p. 1056.
- Smith, H. F., Philadelphia, Pa., assignor to Smith Incandescent Light Company. Lamp. No. 921,904; May 18; Sp. p. 3731; Gaz. vol. 142; p. 658.
- Smith, H. F., Philadelphia, Pa., assignor to Smith Incandescent Light Company. Lamp. (Reissue.) No. 13,033; Nov. 2; Sp. p. 1600; Gaz. vol. 148; p. 259.
- Smith, H. L., Fort Wayne, Ind. Combined hayloader and rake. No. 932,185; Aug. 24; Sp. p. 5439; Gaz. vol. 145; p. 927.
- Smith, H. J., and A. S. Woodward, assignors to Automatic Letter Machine Company, Chicago, Ill. Printing-machine. No. 928,887; July 20; Sp. p. 4520; Gaz. vol. 144; p. 787.
- Smith, H. K., Federalsburg, Md. Can-soldering machine. No. 925,045; June 15; Sp. p. 4182; Gaz. vol. 143; p. 711.
- Smith, H. K., Union, S. C. Envelop-cabinet. No. 941,736; Nov. 30; Sp. p. 7236; Gaz. vol. 148; p. 1220.
- Smith, H. K., Union, assignor of one-fourth to J. L. Tapp, Columbia, and one-fourth to B. F. Arthur, Union, S. C. Clothes-hanger. No. 915,494; Mar. 16; Sp. p. 3778; Gaz. vol. 140; p. 657.
- Smith, H. L., *et al.* (See Smith, C. H., assignor.)
- Smith, H. M. (See Hadley and Smith.)
- Smith, H. M., Irene, S. D. Window-cleaner's support. No. 917,175; Apr. 6; Sp. p. 433; Gaz. vol. 141; p. 76.
- Smith, H. M., near Knoxville, assignor to F. J. Jones, Knoxville, Tenn. Cooking-range. No. 927,437; July 6; Sp. p. 1483; Gaz. vol. 144; p. 246.
- Smith, H. O. (See Weidely, G. A., assignor.)
- Smith, H. P., and L. E. Hooley, Pawtucket, R. I. Automobile-radiator. No. 942,677; Dec. 7; Sp. p. 1338; Gaz. vol. 149; p. 220.
- Smith, H. V., Sykeston, N. D. Removable rake-tooth. No. 926,902; July 6; Sp. p. 406; Gaz. vol. 144; p. 66.
- Smith, H. V., assignor of one-half to E. H. H. Smith, Bridgeport, Conn. Roller-bearing. No. 936,485; Oct. 12; Sp. p. 1879; Gaz. vol. 147; p. 311.
- Smith, H. W., Gage, Okla. Draft appliance. No. 925,396; June 15; Sp. p. 4825; Gaz. vol. 143; p. 825.
- Smith, H. W., Woosley, Okla. Wind-motor. No. 943,901; Dec. 21; Sp. p. 4023; Gaz. vol. 149; p. 696.
- Smith, H. W., North Grafton, Mass., assignor to Crompton & Knowles Loom Works. Loom. No. 923,723; June 1; Sp. p. 1336; Gaz. vol. 143; p. 208.
- Smith, H. W., North Grafton, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 930,425; Aug. 10; Sp. p. 1615; Gaz. vol. 145; p. 233.
- Smith, I. B., assignor, by mesne assignments, to Electrelle Company, Philadelphia, Pa. Automatic music-playing attachment for pianos. No. 913,242; Feb. 23; Sp. p. 4583; Gaz. vol. 139; p. 822.
- Smith, I. B., assignor, by mesne assignments, to Electrelle Company, Philadelphia, Pa. Mechanism for playing musical instruments. No. 927,692; July 13; Sp. p. 2062; Gaz. vol. 144; p. 358.
- Smith, I. B., assignor to Electrelle Company, Philadelphia, Pa. Automatic musical-instrument player. No. 923,380; June 1; Sp. p. 611; Gaz. vol. 143; p. 90.
- Smith, I. C., Los Angeles, Cal. Valve-grinder. No. 942,222; Dec. 7; Sp. p. 419; Gaz. vol. 149; p. 64.
- Smith, I. E., Stockton, Cal. Pump. No. 909,955; Jan. 19; Sp. p. 3084; Gaz. vol. 138; p. 570.
- Smith, I. J., New York, N. Y., assignor to I. J. Smith Mfg. Co. Overhead washer. No. 919,970; Apr. 27; Sp. p. 6432; Gaz. vol. 141; p. 1099.
- Smith Incandescent Light Company. (See Smith, H. F., assignor.)
- Smith Incandescent Light Company. (See Smith, H. F., assignor.) (Reissue.)
- Smith, J. (See Kerr and Smith.)
- Smith, J., Camden, N. J. Cheese-cutter. No. 915,234; Mar. 16; Sp. p. 3270; Gaz. vol. 140; p. 572.
- Smith, J., Bingham Canyon, Utah. Chair. No. 921,905; May 18; Sp. p. 3734; Gaz. vol. 142; p. 658.



*Alphabetical list of patentees—Continued.*

- Smith, J., Trinidad, Colo. Apparatus for testing mine-gases. No. 944,247; Dec. 21; Sp. p. 4731; Gaz. vol. 149; p. 810.
- Smith, J., assignor of one-half to H. Brandle, Philadelphia, Pa. Candy-machine. No. 930,099; Aug. 3; Sp. p. 1008; Gaz. vol. 145; p. 163.
- Smith, J., assignor of one-half to H. Brandle, Philadelphia, Pa. Candy-machine. No. 942,595; Dec. 7; Sp. p. 1172; Gaz. vol. 149; p. 191.
- Smith, J. A. (See Laganke and Smith.)
- Smith, J. A. (See Reynolds and Smith.)
- Smith, J. A. (See Sharp, G. W., assignor.)
- Smith, J. A., Chicago, Ill. Flash-light apparatus. No. 942,941; Dec. 14; Sp. p. 1950; Gaz. vol. 149; p. 339.
- Smith, J. A., Cleveland, Ohio, assignor to Elliott-Fisher Company, New York, N. Y. Variable carriage-feed for type-writing machines. No. 922,534; May 25; Sp. p. 5018; Gaz. vol. 142; p. 892.
- Smith, J. B., Knoxville, Tenn. Poison-indicator. No. 910,154; Jan. 19; Sp. p. 3465; Gaz. vol. 138; p. 634.
- Smith, J. C., New York, N. Y. Safety lamp-wick. No. 911,622; Feb. 9; Sp. p. 1184; Gaz. vol. 139; p. 225.
- Smith, J. C., Louisville, Ky. Automatic regulating-valve. No. 920,677; May 4; Sp. p. 1195; Gaz. vol. 142; p. 192.
- Smith, J. C., Manchester, N. H. Arm-chair and folding bed. No. 942,594; Dec. 7; Sp. p. 1170; Gaz. vol. 149; p. 191.
- Smith, J. C., assignor to American Sign Company, Kalamazoo, Mich. Punch. No. 933,397; Sept. 7; Sp. p. 817; Gaz. vol. 146; p. 127.
- Smith, J. E. (See Mechling and Smith.)
- Smith, J. E., South Portland, Me. Fireman's belt. No. 913,171; Feb. 23; Sp. p. 4433; Gaz. vol. 139; p. 799.
- Smith, J. E., Kansas City, Kans. Gate. No. 933,677; Sept. 7; Sp. p. 1451; Gaz. vol. 146; p. 219.
- Smith, J. E., Clinton, Iowa, assignor to National Peat Products & Chemical Company. Obtaining carbon-black from peat. No. 916,049; Mar. 23; Sp. p. 4898; Gaz. vol. 140; p. 867.
- Smith, J. F. (See Brown, J. E., assignor.)
- Smith, J. G., Covington, Ky. Lubricating device for journal-boxes. No. 914,524; Mar. 9; Sp. p. 1835; Gaz. vol. 140; p. 312.
- Smith, J. G., Wahoo, Nebr. Hand-vice. No. 919,971; Apr. 27; Sp. p. 6434; Gaz. vol. 141; p. 1099.
- Smith, J. G., Covington, Ky., assignor to Railway Journal Lubricator Company, Cincinnati, Ohio. Journal-box. No. 936,675; Oct. 12; Sp. p. 2265; Gaz. vol. 147; p. 377.
- Smith, J. G., Shippensburg, and J. C. McGregor, New Bethlehem, Pa. Breast-drill. No. 913,172; Feb. 23; Sp. p. 4434; Gaz. vol. 139; p. 800.
- Smith, J. G., Shippensburg, and J. C. McGregor, New Bethlehem, Pa. Oil-gate. No. 917,970; Apr. 13; Sp. p. 2038; Gaz. vol. 141; p. 370.
- Smith, J. H., Little Rock, Ark. Machine for stoning fruit. No. 913,571; Feb. 23; Sp. p. 5275; Gaz. vol. 139; p. 934.
- Smith, J. H., Zurich, Switzerland. Optical screen for photographic and printing purposes. No. 914,197; Mar. 2; Sp. p. 1166; Gaz. vol. 140; p. 182.
- Smith, J. H., Manchester, Va. Engine. No. 914,760; Mar. 9; Sp. p. 2334; Gaz. vol. 140; p. 391.
- Smith, J. H., Zurich, Switzerland. Manufacture of films for photographic purposes. No. 923,589; June 1; Sp. p. 1074; Gaz. vol. 143; p. 164.
- Smith, J. H., Rochester, N. Y. Jar-opener. No. 938,284; Oct. 26; Sp. p. 5609; Gaz. vol. 147; p. 960.
- Smith, J. H., Rochester, N. Y. Automatic pressure control. No. 939,752; Nov. 9; Sp. p. 2880; Gaz. vol. 148; p. 475.
- Smith, J. H., assignor to American Suspension Railway Company, Philadelphia, Pa. Truck. No. 936,825; Oct. 12; Sp. p. 2551; Gaz. vol. 147; p. 426.
- Smith, J. J. (See Nutting and Smith.)
- Smith, J. J., *et al.* (See Senn, C., assignor.)
- Smith, J. J., Woodburn, Oreg. Weed-cutter. No. 924,392; June 8; Sp. p. 2821; Gaz. vol. 143; p. 459.
- Smith, J. J., Andover, Mass., assignor to Victoria Self-Lacing Company, Portland, Me. Holder for flies of boots and shoes. No. 930,426; Aug. 10; Sp. p. 1620; Gaz. vol. 145; p. 293.
- Smith, J. J., W. Ghiglieri, and G. W. Ingersoll, Stockton, Cal. Faucet. No. 934,101; Sept. 14; Sp. p. 2312; Gaz. vol. 146; p. 379.
- Smith, J. J. C. and M., assignors to Smith's Patent Compound Cork Company, Passaic, N. J. Cork compound and making same. No. 913,572; Feb. 23; Sp. p. 5277; Gaz. vol. 139; p. 934.
- Smith, J. L., Glen Campbell, Pa. Gambrel-hook. No. 911,079; Feb. 2; Sp. p. 111; Gaz. vol. 139; p. 20.
- Smith, J. M., assignor of one-half to W. D. C. Wright, Philadelphia, Pa. Electrical contact device. No. 943,281; Dec. 14; Sp. p. 2692; Gaz. vol. 149; p. 454.
- Smith, J. P., Frobisher, Saskatchewan, assignor of one-twentieth to H. S. Martin, Alameda, three-elevenths to C. S. Chappell, three-fourteenths to E. O. Chappell, and one-eighth to M. McCay, Oxbow, Canada. Shock-lifter. No. 919,650; Apr. 27; Sp. p. 5775; Gaz. vol. 141; p. 993.
- Smith, J. P., assignor of one-half to J. L. Larner and J. S. McCutcheon, Frobisher, Saskatchewan, Canada. Rolling-drum plow. No. 922,535; May 25; Sp. p. 5024; Gaz. vol. 142; p. 892.
- Smith, J. P., assignor of one-half to A. W. Tibbetts, New Haven, Conn. Fire-escape. No. 930,995; Aug. 10; Sp. p. 2857; Gaz. vol. 145; p. 481.
- Smith, J. R., Benton, Ill. Railway-tie puller. No. 924,391; June 8; Sp. p. 2820; Gaz. vol. 143; p. 459.
- Smith, J. S., Niles, Cal. Cutting-table for bricks and tiles. No. 924,113; June 8; Sp. p. 2181; Gaz. vol. 143; p. 364.
- Smith, J. T., Morehead, Kans. Match-safe. No. 932,645; Aug. 31; Sp. p. 6394; Gaz. vol. 145; p. 1103.
- Smith, J. W. (See Johnson, R. E., assignor.)
- Smith, J. W. (See Martin and Smith.)
- Smith, J. W., Philadelphia, Pa. Turbo-pneumatic drill. No. 910,428; Jan. 19; Sp. p. 4082; Gaz. vol. 138; p. 731.
- Smith, J. W., Aurora, Iowa. Explosive-engine. No. 920,405; May 4; Sp. p. 637; Gaz. vol. 142; p. 102.
- Smith, J. W., Philadelphia, Pa. Portable pneumatic pumping apparatus. No. 921,632; May 11; Sp. p. 3164; Gaz. vol. 142; p. 541.
- Smith, J. W., Erie, Pa. Turbine. No. 923,451; June 1; Sp. p. 766; Gaz. vol. 143; p. 113.
- Smith, J. W., Philadelphia, Pa. Nozzle for vacuum-cleaners. No. 933,003; Aug. 31; Sp. p. 7087; Gaz. vol. 145; p. 129.
- Smith, J. W., Portland, Oreg. Timber felling and sawing machine. No. 935,128; Sept. 28; Sp. p. 4343; Gaz. vol. 146; p. 774.
- Smith, J. W., Kernville, Cal. Wagon. No. 935,277; Sept. 28; Sp. p. 4628; Gaz. vol. 146; p. 823.
- Smith, K. G. (See Wood, J. M., assignor.)
- Smith, K. J., New York, N. Y. Safety appliance for clutch devices. No. 937,481; Oct. 19; Sp. p. 3950; Gaz. vol. 147; p. 671.
- Smith, L. A., Akron, Ohio. Nut-lock. No. 909,033; Jan. 5; Sp. p. 1227; Gaz. vol. 138; p. 197.
- Smith, L. A., Seaton, Ill. Churn. No. 913,778; Mar. 2; Sp. p. 214; Gaz. vol. 140; p. 36.
- Smith, L. A., Gastonia, N. C. Quilting-frame. No. 925,046; June 15; Sp. p. 4183; Gaz. vol. 143; p. 712.
- Smith, L. C. *et al.* (See Smith, C. H., assignor.)
- Smith, L. C., Polkton, N. C. Nut-lock. No. 916,210; Mar. 23; Sp. p. 5192; Gaz. vol. 140; p. 919.
- Smith, L. C., Rome, N. Y., assignor to Coe Brass Manufacturing Company, Torrington, Conn. Tube-forming machine. No. 922,536; May 25; Sp. p. 5028; Gaz. vol. 142; p. 893.
- Smith, L. H. (See Siemsen, J., assignor.)
- Smith, L. K., Moberly, Mo. Journal-box. No. 941,661; Nov. 30; Sp. p. 7066; Gaz. vol. 148; p. 1194.
- Smith, L. L. (See Smith, A. H. and L. L.)
- Smith, L. P. (See Wagner, W. S., assignor.)
- Smith, L. P., *et al.* (See Chaussé, W., assignor.)
- Smith, L. R., Latham, Kans. Heat-storing attachment for stoves. No. 944,515; Dec. 28; Sp. p. 5354; Gaz. vol. 149; p. 937.
- Smith, L. W. (See Sires and Smith.)
- Smith, M. (See Smith, G. and M.)
- Smith, M. (See Smith, J. J. C. and M.)
- Smith, M., Crabtree, Oreg. Revolving cabinet. No. 944,158; Dec. 21; Sp. p. 4566; Gaz. vol. 149; p. 784.
- Smith, M. A. (See Goodwin, G. B. M., assignor.)
- Smith, M. A., Port Huron, Mich. Carpet-stretcher. No. 910,595; Jan. 26; Sp. p. 4454; Gaz. vol. 138; p. 812.
- Smith, M. C. (See Smith, A. J., assignor.)
- Smith, M. J., and M. O. Kongsli, Tacoma, Wash. Device for preventing waste of minerals. No. 936,377; Oct. 12; Sp. p. 1625; Gaz. vol. 147; p. 275.
- Smith, M. M., assignor to Fredonia Portland Cement Company, Fredonia, Kans. Waterproof cement. No. 918,384; Apr. 13; Sp. p. 2884; Gaz. vol. 141; p. 509.
- Smith, M. V., New York, N. Y. Casting metals. No. 914,679; Mar. 9; Sp. p. 2164; Gaz. vol. 140; p. 363.
- Smith, M. W., Hoddesdon, England. Cash-registering till. No. 913,779; Mar. 2; Sp. p. 215; Gaz. vol. 140; p. 36.
- Smith, M. W., Troy, Pa. Bolt and nut lock. No. 944,288; Dec. 28; Sp. p. 4830; Gaz. vol. 149; p. 852.
- Smith, N. A., Grand Rapids, Mich. Packing-case. No. 915,802; Mar. 23; Sp. p. 4435; Gaz. vol. 140; p. 787.
- Smith, N. H., Seattle, Wash. Dentist's casting appliance. No. 932,508; Aug. 31; Sp. p. 6092; Gaz. vol. 145; p. 1056.
- Smith, O., Bridgeton, N. J. Coining-press. No. 912,194; Feb. 9; Sp. p. 2372; Gaz. vol. 139; p. 410.
- Smith, O. B. (See Yuster, M. L., assignor.)
- Smith, O. H., assignor to M. A. Custis, Washington, D. C. Fastening device for mail-boxes. No. 918,385; Apr. 13; Sp. p. 2884; Gaz. vol. 141; p. 509.
- Smith, O. L., Kansas City, Mo. Mortising tool or chisel. No. 924,199; June 8; Sp. p. 2423; Gaz. vol. 143; p. 394.
- Smith, O. L., Philadelphia, Pa. Display-rack. No. 929,509; July 27; Sp. p. 5800; Gaz. vol. 144; p. 1018.
- Smith, O. O. (See Getchell and Smith.)

*Alphabetical list of patentees—Continued.*

- Smith, O. P., South Framingham, Mass., assignor to himself, and W. F. Blake, St. Louis, Mo. Propeller. No. 940,743; Nov. 23; Sp. p. 5099; Gaz. vol. 143; p. 869.
- Smith, O. W. (See McPhetridge, W. T., assignor.)
- Smith, P. B., *et al.* (See Chesnutt, T. S., assignor.)
- Smith, P. D. (See Mansfield and Smith.)
- Smith, P. S., Philadelphia, Pa. Automatic box-covering machine. No. 912,745; Feb. 16; Sp. p. 3603; Gaz. vol. 139; p. 636.
- Smith, P. S., Philadelphia, Pa. Machine for covering loose-wrapped boxes. No. 912,746; Feb. 16; Sp. p. 3612; Gaz. vol. 139; p. 636.
- Smith, P. S., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Recovering sulfur from sulfur-bearing gases. No. 912,743; Feb. 16; Sp. p. 3597; Gaz. vol. 139; p. 635.
- Smith, P. S., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Recovering sulfur from sulfur-bearing gases. No. 912,744; Feb. 16; Sp. p. 3601; Gaz. vol. 139; p. 635.
- Smith, P. W., Philadelphia, Pa. Soap-holder. No. 915,495; Mar. 16; Sp. p. 3779; Gaz. vol. 140; p. 657.
- Smith and Post Company. (See Post, P. W., assignor.)
- Smith Premier Typewriter Company. (See Barr, J. H., assignor.)
- Smith Premier Typewriter Company. (See Briggs, A. J., assignor.)
- Smith, R. A., Omaha, Nebr., assignor of thirty-seven and one-half one-hundredths to T. C. Davison, Los Angeles, Cal. Railway-ticket. No. 922,818; May 25; Sp. p. 5612; Gaz. vol. 142; p. 983.
- Smith, R. B., *et al.* (See Révoir, B., assignor.)
- Smith, R. B., New York, N. Y. Sound-reproducer. No. 908,897; Jan. 5; Sp. p. 959; Gaz. vol. 138; p. 153.
- Smith, R. B., New York, N. Y. Sound-reproducer. No. 925,846; June 22; Sp. p. 5790; Gaz. vol. 143; p. 1002.
- Smith, R. B., Quincy, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Eyeletting-machine. No. 926,903; July 6; Sp. p. 407; Gaz. vol. 144; p. 66.
- Smith, R. B., New York, assignor to Indestructible Phonographic Record Co., Brooklyn, N. Y. Phonographic reproducer. No. 936,826; Oct. 12; Sp. p. 2554; Gaz. vol. 147; p. 427.
- Smith, R. C., Yonkers, N. Y. Calculating-scale. No. 920,497; May 4; Sp. p. 807; Gaz. vol. 142; p. 131.
- Smith, R. H., Takoma Park, D. C. Car-rerailer. No. 928,810; July 20; Sp. p. 4355; Gaz. vol. 144; p. 759.
- Smith, R. H., Baltimore, Md. Manufacture of sheet-metal cans. No. 932,341; Aug. 24; Sp. p. 5735; Gaz. vol. 145; p. 978.
- Smith, R. H., Hamilton, Mass. Horse-boot. No. 941,819; Nov. 30; Sp. p. 7427; Gaz. vol. 148; p. 1248.
- Smith, R. H., and C. D. Hersberger, Bedford, Pa. Railway-tie plate. No. 912,195; Feb. 9; Sp. p. 2375; Gaz. vol. 139; p. 410.
- Smith, R. L., Rich Mountain, W. Va. Railway-spike. No. 942,668; Dec. 7; Sp. p. 1321; Gaz. vol. 149; p. 217.
- Smith, R. L., Orange, N. J. Test-indicator. No. 943,282; Dec. 14; Sp. p. 2695; Gaz. vol. 149; p. 455.
- Smith, R. M. (See Donaghy, J. F., assignor.)
- Smith, R. M., Chicago, Ill. Quick-adjustment vise. No. 921,296; May 11; Sp. p. 2458; Gaz. vol. 142; p. 428.
- Smith, R. N., Alma, Wis. Reversing-gear. No. 929,796; Aug. 3; Sp. p. 348; Gaz. vol. 145; p. 59.
- Smith, R. P. (See Drum and Smith.)
- Smith, R. W., Marietta, Pa., assignor to Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 920,782; May 4; Sp. p. 1394; Gaz. vol. 142; p. 225.
- Smith, R. W., Marietta, Pa., assignor to Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 920,783; May 4; Sp. p. 1396; Gaz. vol. 142; p. 226.
- Smith, S., Providence, R. I. Sanitary water-closet. No. 932,822; Aug. 31; Sp. p. 6769; Gaz. vol. 145; p. 1160.
- Smith, S., Providence, R. I. Sanitary water-closet. No. 932,823; Aug. 31; Sp. p. 6771; Gaz. vol. 145; p. 1161.
- Smith, S., Providence, R. I. Sanitary water-closet. No. 932,824; Aug. 31; Sp. p. 6771; Gaz. vol. 145; p. 1161.
- Smith, S., Woodland, Cal. Apparatus for cutting wedge-blocks and doyle-pins. No. 936,744; Oct. 12; Sp. p. 2398; Gaz. vol. 147; p. 399.
- Smith, S. B., Willow Springs, Ill. Firearm. No. 941,662; Nov. 30; Sp. p. 7068; Gaz. vol. 148; p. 1195.
- Smith, S. B., and W. Thissen, Sayre, Pa. Ink-well. No. 919,482; Apr. 27; Sp. p. 5431; Gaz. vol. 141; p. 935.
- Smith, S. D., Atlanta, Ga. Household utensil. No. 926,028; June 22; Sp. p. 6150; Gaz. vol. 143; p. 1061.
- Smith, S. E., Vandervoort, Ark. Folding crate. No. 931,808; Aug. 24; Sp. p. 4626; Gaz. vol. 145; p. 802.
- Smith, S. E., Atlantic City, N. J. Window-shade bracket. No. 931,968; Aug. 24; Sp. p. 4986; Gaz. vol. 145; p. 854.
- Smith, S. F., assignor of one-half to A. W. Chapman, Oldtown, S. C. Lock-nut. No. 928,811; July 20; Sp. p. 4356; Gaz. vol. 144; p. 760.
- Smith, S. F., *et al.* (See Steelman, F., assignor.)
- Smith, S. R., Gainesville, Tex. Device for teaching penmanship. No. 940,744; Nov. 23; Sp. p. 5101; Gaz. vol. 148; p. 869.
- Smith & Sons Mfg. Co. (See Livengood W. S., assignor.)
- Smith, T., Howell, Mich. Package-clasp. No. 914,761; Mar. 9; Sp. p. 2335; Gaz. vol. 140; p. 392.
- Smith, T., Salt Lake City, Utah. Water-supply apparatus. No. 923,905; June 8; Sp. p. 1800; Gaz. vol. 143; p. 299.
- Smith, T., Chicago, Ill. Combined amusement and advertising device. No. 933,495; Sept. 7; Sp. p. 1108; Gaz. vol. 146; p. 159.
- Smith, T., Chicago, Ill. Device for producing noise. No. 934,226; Sept. 14; Sp. p. 2559; Gaz. vol. 146; p. 423.
- Smith, T., assignor to Theo. Smith Manufacturing Company, Chicago, Ill. Electric-light shade. No. 910,877; Jan. 26; Sp. p. 4999; Gaz. vol. 138; p. 902.
- Smith, T., assignor to Theo. Smith Manufacturing Company, Chicago, Ill. Adjustable bracket. No. 922,204; May 18; Sp. p. 4343; Gaz. vol. 142; p. 756.
- Smith, T., assignor to Theo. Smith Manufacturing Company, Chicago, Ill. Electric-light fixture. No. 933,132; Sept. 7; Sp. p. 195; Gaz. vol. 146; p. 33.
- Smith, T. C., Chicago, Ill. Photographic flash-light apparatus. No. 916,894; Mar. 30; Sp. p. 6522; Gaz. vol. 140; p. 1165.
- Smith, T. J., Birmingham, Ala. Cotton-chopper. No. 924,286; June 8; Sp. p. 2600; Gaz. vol. 143; p. 424.
- Smith, T. J., Birmingham, Ala. Cotton-chopper. No. 924,287; June 8; Sp. p. 2604; Gaz. vol. 143; p. 424.
- Smith, T. J., Birmingham, Ala. Cultivator attachment for cotton-choppers. No. 924,288; June 8; Sp. p. 2605; Gaz. vol. 143; p. 424.
- Smith, T. L., and E. W. Meyer, assignors to T. L. Smith Company, Milwaukee, Wis. Liquid-measuring tank. No. 940,206; Nov. 16; Sp. p. 3906; Gaz. vol. 148; p. 663.
- Smith, T. M., New York, N. Y. Electric switch. No. 910,239; Jan. 19; Sp. p. 3664; Gaz. vol. 138; p. 666.
- Smith, T. M., Baltimore, Md. Lifting apparatus. No. 935,170; Sept. 28; Sp. p. 4415; Gaz. vol. 146; p. 788.
- Smith, T. S., Los Angeles, Cal. Furnace. No. 915,235; Mar. 16; Sp. p. 3272; Gaz. vol. 140; p. 572.
- Smith, T. W., Scranton, Pa. Lubricator. No. 929,039; July 27; Sp. p. 4830; Gaz. vol. 144; p. 864.
- Smith, T. W., Delphos, assignor of one-half to H. C. Smith, Middle Point, Ohio. Combined door-lock and burglar-alarm. No. 911,080; Feb. 2; Sp. p. 112; Gaz. vol. 139; p. 21.
- Smith, U. S., Sacramento, Cal. Automatic slack-adjuster for air-brake systems. No. 918,922; Apr. 20; Sp. p. 4094; Gaz. vol. 141; p. 718.
- Smith, W. (See Brown, W. F., assignor.)
- Smith, W. (See Horner, S. F., assignor.)
- Smith, W. (See Jones, W. H., assignor.)
- Smith, W., Viropa, W. Va. Combined graphophone-horn and record-case. No. 939,753; Nov. 9; Sp. p. 2881; Gaz. vol. 148; p. 475.
- Smith, W. A., Los Angeles, Cal. Rotary explosion-engine. No. 920,678; May 4; Sp. p. 1198; Gaz. vol. 142; p. 192.
- Smith, W. A., Coshocton, Ohio. Match-holder. No. 926,029; June 22; Sp. p. 6152; Gaz. vol. 143; p. 1062.
- Smith, W. A., assignor to International Acheson Graphite Company, Niagara Falls, N. Y. Electric furnace. No. 935,937; Oct. 5; Sp. p. 722; Gaz. vol. 147; p. 106.
- Smith, W. B. (See Fulton and Smith.)
- Smith, W. B., Sr., Pittsburgh, Pa. Coke-oven. No. 915,630; Mar. 16; Sp. p. 4073; Gaz. vol. 140; p. 704.
- Smith, W. C., Philadelphia, Pa. Thill-tug. No. 920,679; May 4; Sp. p. 1203; Gaz. vol. 142; p. 192.
- Smith, W. C., Chicago, Ill. Musical score or composition. (Reissue.) No. 13,016; Aug. 24; Sp. p. 5895; Gaz. vol. 145; p. 1006.
- Smith, W. C., Kankakee, assignor to Schaeffer Piano Manufacturing Company, Chicago, Ill. Pneumatically-operated device. No. 914,463; Mar. 9; Sp. p. 1706; Gaz. vol. 140; p. 292.
- Smith, W. D., assignor of two-thirds to F. L. Adams and J. A. Firman, Prophetstown, Ill. Envelop. No. 914,982; Mar. 9; Sp. p. 2742; Gaz. vol. 140; p. 462.
- Smith, W. D., Denver, Colo., assignor to Automatic Flareback Prevention Company, Pittsburg, Pa. Gun. No. 944,973; Dec. 28; Sp. p. 6325; Gaz. vol. 149; p. 1086.
- Smith, W. D., Denver, Colo., assignor to Automatic Flareback Prevention Company, Pittsburg, Pa. Cleaning the explosive-chambers of ordnance after firing. No. 944,974; Dec. 28; Sp. p. 6329; Gaz. vol. 149; p. 1086.
- Smith, W. E., Clay Center, Kans. Poultry-fount. No. 937,108; Oct. 19; Sp. p. 3121; Gaz. vol. 147; p. 549.
- Smith, W. F., Appleton, Minn. Ice-sawing rig. No. 932,591; Aug. 31; Sp. p. 6270; Gaz. vol. 145; p. 1085.
- Smith, W. F., Philadelphia, Pa. Hydraulic separator. No. 941,663; Nov. 30; Sp. p. 7071; Gaz. vol. 148; p. 1195.
- Smith, W. F., and M. Johnson, Coshocton, Ohio. Match-box and bill-holder. No. 929,257; July 27; Sp. p. 5276; Gaz. vol. 144; p. 936.
- Smith, W. H. (See Brown C. C., assignor.)
- Smith, W. H. (See Harris and Smith.)
- Smith, W. H., *et al.* (See Woodworth, J. B., assignor.)



*Alphabetical list of patentees—Continued.*

- Smith, W. H., assignor to John R. Keim Mills, Inc., Buffalo, N. Y. Apparatus for making cup-shaped articles. No. 909,342; Jan. 12; Sp. p. 1854; Gaz. vol. 138; p. 332.
- Smith, W. H., assignor to Harris Automatic Press Company, Niles, Ohio. Printing-press. No. 920,406; May 4; Sp. p. 639; Gaz. vol. 142; p. 102.
- Smith, W. H., assignor to Harris Automatic Press Company, Niles, Ohio. Trip mechanism. No. 925,047; June 15; Sp. p. 4185; Gaz. vol. 143; p. 712.
- Smith, W. H., assignor of one-half to M. F. Barrett, Cleveland, Ohio. Stop and waste cock. No. 938,442; Oct. 26; Sp. p. 5985; Gaz. vol. 147; p. 1014.
- Smith, W. H., assignor of one-half to M. F. Barrett, Cleveland, Ohio. Valve device for corrosive liquids. No. 939,927; Nov. 9; Sp. p. 3251; Gaz. vol. 148; p. 536.
- Smith, W. H., Cleveland, assignor of one-half to M. F. Barrett, East Cleveland, Ohio. Valve device for corrosive liquids. No. 941,351; Nov. 23; Sp. p. 6395; Gaz. vol. 148; p. 1069.
- Smith, W. L. (See Wade and Smith.)
- Smith, W. L., Pittsburg, Pa. Rack for dental and like tools. No. 935,419; Sept. 28; Sp. p. 4911; Gaz. vol. 146; p. 868.
- Smith, W. L., Pittsburg, Pa. Rack or tray for dental and like instruments. No. 935,420; Sept. 28; Sp. p. 4912; Gaz. vol. 146; p. 868.
- Smith, W. L., Columbus, Ohio, assignor, by mesne assignments, to Jeffrey Manufacturing Company. Rock-drill. No. 934,102; Sept. 14; Sp. p. 2313; Gaz. vol. 146; p. 379.
- Smith, W. M. (See Curwen and Smith.)
- Smith, W. M., Turtle Creek, Pa. Envelop. No. 925,048; June 15; Sp. p. 4187; Gaz. vol. 143; p. 713.
- Smith, W. M., Turtle Creek, Pa. Stay-bolt. No. 930,805; Aug. 10; Sp. p. 2422; Gaz. vol. 145; p. 420.
- Smith, W. M., Turtle Creek, Pa. Nut-lock. No. 930,806; Aug. 10; Sp. p. 2424; Gaz. vol. 145; p. 420.
- Smith, W. M., Turtle Creek, Pa. Stay-bolt. No. 930,807; Aug. 10; Sp. p. 2426; Gaz. vol. 145; p. 421.
- Smith, W. M., Turtle Creek, Pa. Nut-lock. No. 930,808; Aug. 10; Sp. p. 2429; Gaz. vol. 145; p. 421.
- Smith, W. M., Turtle Creek, Pa. Flexible stay-bolt. No. 930,809; Aug. 10; Sp. p. 2430; Gaz. vol. 145; p. 422.
- Smith, W. M., Turtle Creek, Pa. Stay-bolt. No. 930,810; Aug. 10; Sp. p. 2435; Gaz. vol. 145; p. 422.
- Smith, W. M., Turtle Creek, Pa. Stay-bolt. No. 932,342; Aug. 24; Sp. p. 5736; Gaz. vol. 145; p. 978.
- Smith, W. M., Prospect Park, assignor to W. H. Heulings, Jr., Philadelphia, Pa. Car-door and means for operating it. No. 938,719; Nov. 2; Sp. p. 587; Gaz. vol. 148; p. 92.
- Smith, W. P., Kinards, S. C. Fertilizer-distributor. No. 912,431; Feb. 16; Sp. p. 2901; Gaz. vol. 139; p. 527.
- Smith, W. P., Gaines, Pa. Logging-grab. No. 925,961; June 22; Sp. p. 6016; Gaz. vol. 143; p. 1039.
- Smith, W. P., El Paso, Tex. Signaling device. No. 937,482; Oct. 19; Sp. p. 3952; Gaz. vol. 147; p. 671.
- Smith, W. R. (See Hampton, Franz, and Smith.)
- Smith, W. R. (See Lawson and Smith.)
- Smith, W. R., Coloma, Mich. Cross-line buckle. No. 910,878; Jan. 26; Sp. p. 5001; Gaz. vol. 138; p. 902.
- Smith, W. R., Jackson, Mich. Spring construction. No. 916,622; Mar. 30; Sp. p. 6036; Gaz. vol. 140; p. 1082.
- Smith, W. R., assignor to Jackson Cushion Spring Co., Jackson, Mich. Spring construction. No. 935,703; Oct. 5; Sp. p. 175; Gaz. vol. 147; p. 27.
- Smith, W. R., assignor to Jackson Cushion Spring Co., Jackson, Mich. Spring construction. No. 935,938; Oct. 5; Sp. p. 724; Gaz. vol. 147; p. 106.
- Smith, W. R., assignor to Jackson Cushion Spring Company, Jackson, Mich. Spring construction. No. 935,701; Oct. 5; Sp. p. 170; Gaz. vol. 147; p. 27.
- Smith, W. R., assignor to Jackson Cushion Spring Company, Jackson, Mich. Spring construction. No. 935,702; Oct. 5; Sp. p. 173; Gaz. vol. 147; p. 27.
- Smith, W. R., and J. A. Sanford, assignors to Jackson Cushion Spring Co., Jackson, Mich. Railway-car seat. No. 935,700; Oct. 5; Sp. p. 164; Gaz. vol. 147; p. 26.
- Smith, W. S. (See Cosgrove and Smith.)
- Smith, W. S., Forest, Ohio. Excavator. No. 909,700; Jan. 12; Sp. p. 2550; Gaz. vol. 138; p. 453.
- Smith, W. S., Wharton, Ohio. Clevis. No. 923,306; June 1; Sp. p. 458; Gaz. vol. 143; p. 64.
- Smith, W. S., and E. L. Cosgrove, Wharton, Ohio. Collapsible crate. No. 937,880; Oct. 26; Sp. p. 4759; Gaz. vol. 147; p. 822.
- Smith, W. T., Bolton, England. Spindle for spinning and doubling machines. No. 911,170; Feb. 2; Sp. p. 289; Gaz. vol. 139; p. 51.
- Smith, W. T., Los Angeles, Cal. Extracting metals from their ores. No. 926,718; June 29; Sp. p. 7531; Gaz. vol. 143; p. 1325.
- Smith, W. T., Philadelphia, Pa. Laying-table for rope portières. No. 939,873; Nov. 9; Sp. p. 3127; Gaz. vol. 148; p. 516.
- Smith, W. W. (See Plough, S. A., assignor.)
- Smith, W. W., Arkansas City, Kans. Flush-valve. No. 921,017; May 11; Sp. p. 1880; Gaz. vol. 142; p. 333.
- Smith & Wesson. (See Stone, C. M., assignor.)
- Smith & Wesson. (See Wesson, J. H., assignor.)
- Smither, J. T., Morgadore, Ky. Wagon-body. No. 912,430; Feb. 16; Sp. p. 2900; Gaz. vol. 139; p. 526.
- Smithers, J. D., Fillmore, Mo. Preserving eggs. No. 912,909; Feb. 16; Sp. p. 3399; Gaz. vol. 139; p. 687.
- Smith's Patent Compound Cork Company. (See Smith, J. J. C. and M., assignors.)
- Smithson, F., New York, N. Y. Magazine. No. 943,479; Dec. 14; Sp. p. 3103; Gaz. vol. 149; p. 523.
- Smithson, H., assignor of one-third to C. E. Chrisman, Ortonville, Minn. Drop-drawer. No. 912,328; Feb. 16; Sp. p. 2698; Gaz. vol. 139; p. 493.
- Smithwick, H., Rumford Falls, Me. Bunching and counting machine. No. 926,904; July 6; Sp. p. 412; Gaz. vol. 144; p. 67.
- Smitmans, J. A., Pittsburg, Pa. Gas-producer. No. 908,812; Jan. 5; Sp. p. 789; Gaz. vol. 138; p. 124.
- Smits, P. (See Roop, A., assignor.)
- Smitson, W. A., and A. German, Elwood, Ind. Device for holding wire screens. No. 941,282; Nov. 23; Sp. p. 6266; Gaz. vol. 148; p. 1045.
- Smock, M. L., Southport, Ind. Seed-planter. No. 926,777; July 6; Sp. p. 139; Gaz. vol. 144; p. 23.
- Smoke, H., Gloucester, N. J. Keel-block. No. 936,676; Oct. 12; Sp. p. 2266; Gaz. vol. 147; p. 377.
- Smokeless Heat & Power Company. (See Darling, J., assignor.)
- Smoot, C. H., La Grange, Ill. Turbine-bucket. No. 926,442; June 29; Sp. p. 7006; Gaz. vol. 143; p. 1234.
- Smoot, C. H., and H. Hertz, assignors to Western Electric Company, Chicago, Ill. Collector-ring and clamping-plate. No. 911,081; Feb. 2; Sp. p. 114; Gaz. vol. 139; p. 21.
- Smoot, M. E., Washington, D. C. Combined book-mark, line-guide, and pencil-holder. No. 938,025; Oct. 26; Sp. p. 5060; Gaz. vol. 147; p. 870.
- Smooth-On Manufacturing Company. (See Tompkins, V., assignor.)
- Smothers, W. H., Millston, Wis. Adjustable shingling-gage. No. 922,053; May 18; Sp. p. 4039; Gaz. vol. 142; p. 706.
- Smrcka, J. (See Smrcka, W. J., assignor.)
- Smrcka, W. J., assignor of one-half to J. Smrcka, Chicago, Ill. Ventilator for skylights. No. 918,210; Apr. 13; Sp. p. 2541; Gaz. vol. 141; p. 453.
- Smyth, D. D. (See Watkins, H., assignor.)
- Smyth, D. G., Hartford, Conn. Machine for feeding and assembling signatures. No. 909,701; Jan. 12; Sp. p. 2551; Gaz. vol. 138; p. 453.
- Smyth, M. C., Bellport, N. Y. Drip-pan. No. 935,278; Sept. 28; Sp. p. 4630; Gaz. vol. 146; p. 823.
- Smyth Manufacturing Company. (See Harrington, F., assignor.)
- Smyth Manufacturing Company. (See Reynolds, J. R., assignor.)
- Smyth, R. J., and F. Allinger, Yermo, Cal. Hydrocarbon-burner. No. 926,218; June 29; Sp. p. 6581; Gaz. vol. 143; p. 1162.
- Smyth, W. H., San Francisco, Cal. Apparatus for utilizing energy derived from explosions. No. 936,677; Oct. 12; Sp. p. 2267; Gaz. vol. 147; p. 377.
- Smythe, H. E., Oakmont, assignor to S. R. Smythe Company, Pittsburg, Pa. Continuous-heating furnace. No. 924,009; June 8; Sp. p. 2001; Gaz. vol. 143; p. 332.
- Smythe, H. E., Oakmont, assignor to S. R. Smythe Company, Pittsburg, Pa. Seal for continuous heating-furnaces. No. 930,811; Aug. 10; Sp. p. 2437; Gaz. vol. 145; p. 423.
- Snaman, W. E., Pittsburg, Pa. Flushing apparatus for water-closet bowls or hoppers. No. 941,283; Nov. 23; Sp. p. 6267; Gaz. vol. 148; p. 1049.
- Snaveley, W. H., Spring Mills, Pa. Nut-lock. No. 912,499; Feb. 16; Sp. p. 3037; Gaz. vol. 139; p. 549.
- Snead & Company Iron Works. (See Macdonald, H. F., assignor.)
- Sneath, A. S. C., New Haven, Conn. Package cover or receptacle. No. 928,159; July 13; Sp. p. 2995; Gaz. vol. 144; p. 512.
- Snedaker, E., Philadelphia, Pa. Pool-table. No. 928,160; July 13; Sp. p. 2996; Gaz. vol. 144; p. 512.
- Snedden, J. W., Falls Creek, Pa. Railway-tie. No. 937,654; Oct. 19; Sp. p. 4269; Gaz. vol. 147; p. 729.
- Sneddon, J. P., Barborton, Ohio, assignor to Babcock & Wilcox Company, New York, N. Y. Water-tube boiler. No. 941,820; Nov. 30; Sp. p. 7429; Gaz. vol. 148; p. 1249.
- Sneddon, J. P., Barborton, Ohio, assignor to Babcock & Wilcox Company, New York, N. Y. Water-tube boiler. No. 942,797; Dec. 7; Sp. p. 1573; Gaz. vol. 149; p. 259.

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- Snediker, W. E., New York, N. Y. Salt-cellar. No. 919,483; Apr. 27; Sp. p. 5432; Gaz. vol. 141; p. 936.
- Snell, A. C., Saltash, England, assignor to W. H. Dodge, Montclair, N. J. Flushing apparatus. No. 942,978; Dec. 14; Sp. p. 2030; Gaz. vol. 149; p. 352.
- Snell, A. J., Fort Wayne, Ind., and R. C. Dole, Kansas City, Mo., assignors to S. P. Le Van, Fort Wayne, Ind. Street-railway switch. No. 912,747; Feb. 16; Sp. p. 3620; Gaz. vol. 139; p. 637.
- Snell, G., Thompsonville, Mich. Draft-hook. No. 932,416; Aug. 24; Sp. p. 5873; Gaz. vol. 145; p. 1002.
- Snell, H. K. (See Vogel and Snell.)
- Snell, L. C., assignor to Hydraulic Oil Distribution Company, Detroit, Mich. Hydraulic system for the distribution of oil. No. 927,008; July 6; Sp. p. 626; Gaz. vol. 144; p. 102.
- Snell, R. Z., South Bend, Ind. Machine for making concrete tiling. No. 928,812; July 20; Sp. p. 4357; Gaz. vol. 144; p. 760.
- Snell, S., London, England. Type-writer. No. 933,593; Sept. 7; Sp. p. 1291; Gaz. vol. 146; p. 192.
- Snelling, W. O., Pittsburg, Pa. Recovering metals. No. 917,176; Apr. 6; Sp. p. 434; Gaz. vol. 141; p. 76.
- Snelson, J. T., Rocky Ford, Colo. Machine for ironing collars. No. 921,906; May 18; Sp. p. 3736; Gaz. vol. 142; p. 659.
- Snevely, J. E., Salt Lake City, Utah. Brush-making machine. No. 913,314; Feb. 23; Sp. p. 4728; Gaz. vol. 139; p. 847.
- Snevely, J. E., Salt Lake City, Utah. Feather-stock. No. 926,219; June 29; Sp. p. 6582; Gaz. vol. 143; p. 1162.
- Sneyd, F. C., Irvington, assignor to Reeves & Browne, Newark, N. J. Jointed sheet-metal figure. No. 942,524; Dec. 7; Sp. p. 1044; Gaz. vol. 149; p. 169.
- Snider, J. C., assignor of one-half to J. P. Waltz, Plumrun, Pa. Apparatus for making tee-calks. No. 911,912; Feb. 9; Sp. p. 1733; Gaz. vol. 139; p. 320.
- Snider, J. J. (See Welch, J. P., assignor.)
- Snipes, F., Roswell, N. Mex. Ter. Loading and unloading device. No. 930,321; Aug. 3; Sp. p. 1406; Gaz. vol. 145; p. 233.
- Snodgrass, A. T., Thomasville, Ga. Rotary engine. No. 915,236; Mar. 16; Sp. p. 3273; Gaz. vol. 140; p. 572.
- Snodgrass, W. B., Corpus Christi, Tex. Track-rail brace. No. 925,049; June 15; Sp. p. 4189; Gaz. vol. 143; p. 713.
- Snook, P. H., Jr., et al. (See McConnell, H. I., assignor.)
- Snover, V. T. (See Lee, Snover, and Palmer.)
- Snow, C. A. (See Jobs and Snow.)
- Snow, D. D. (See Costephens and Snow.)
- Snow, D. L. (See Snow, Luecke, and Snow.)
- Snow, D. W., Portland, Me. Car-window ventilator. No. 940,946; Nov. 23; Sp. p. 5532; Gaz. vol. 148; p. 936.
- Snow, F., assignor, by mesne assignments, to Conkling Company, Chicago, Ill. Rotary stop-motion. No. 912,040; Feb. 9; Sp. p. 2077; Gaz. vol. 139; p. 362.
- Snow, F., assignor, by mesne assignments, to Conkling Company, Chicago, Ill. Washer cylinder-door. No. 912,041; Feb. 9; Sp. p. 2081; Gaz. vol. 139; p. 362.
- Snow, F., assignor, by mesne assignments, to Conkling Company, Chicago, Ill. Automatic stop mechanism. No. 912,042; Feb. 9; Sp. p. 2084; Gaz. vol. 139; p. 362.
- Snow, F., assignor, by mesne assignments, to Conkling Company, Chicago, Ill. Driving and reversing mechanism. No. 912,043; Feb. 9; Sp. p. 2090; Gaz. vol. 139; p. 363.
- Snow, F., assignor, by mesne assignments, to Conkling Company, Chicago, Ill. Driving and reversing mechanism. No. 912,044; Feb. 9; Sp. p. 2098; Gaz. vol. 139; p. 363.
- Snow, F., assignor to Conkling Company, Chicago, Ill. Driving and reversing mechanism. No. 912,045; Feb. 9; Sp. p. 2106; Gaz. vol. 139; p. 363.
- Snow, F., assignor, by mesne assignments to Conkling Company, Chicago, Ill. Reversing mechanism. No. 912,196; Feb. 9; Sp. p. 2377; Gaz. vol. 139; p. 410.
- Snow, G. B., Buffalo, N. Y. Dental articulator. No. 912,748; Feb. 16; Sp. p. 3622; Gaz. vol. 139; p. 637.
- Snow, I., assignor of one-half to G. Stubbings, Lawrence, Mass. Shuttle for looms. No. 928,077; July 13; Sp. p. 2849; Gaz. vol. 144; p. 486.
- Snow, J., Falun, Minn. Animal-trap. No. 925,847; June 22; Sp. p. 5794; Gaz. vol. 143; p. 1002.
- Snow, J. F., Pawtucket, R. I. Universal support. No. 910,429; Jan. 19; Sp. p. 4085; Gaz. vol. 138; p. 732.
- Snow, O. B., Mountain Top, Ark. Choke attachment for shotguns. No. 918,784; Apr. 20; Sp. p. 3780; Gaz. vol. 141; p. 671.
- Snow & Petrelli Mfg. Co. (See Petrelli, J., assignor.)
- Snow, R. A., et al. (See Brickey, C. P., assignor.)
- Snow, R. C. (See Côté and Snow.)
- Snow, W. D., Philadelphia, Pa. Linoleum. No. 911,340; Feb. 2; Sp. p. 622; Gaz. vol. 139; p. 107.
- Snow, W. D., A. B. Luecke, and D. L. Snow, Philadelphia, Pa. Linoleum. No. 911,341; Feb. 2; Sp. p. 622; Gaz. vol. 139; p. 107.
- Snow, W. J., assignor of one-half to Z. D. Morgan, Vilonia, Ark. Churn. No. 913,573; Feb. 23; Sp. p. 5280; Gaz. vol. 139; p. 935.
- Snowden, E. P. (See Livergood and Donnelly, assignors.)
- Snowden, G. E., New Cumberland, W. Va. Kiln. No. 916,498; Mar. 30; Sp. p. 5786; Gaz. vol. 140; p. 1041.
- Snowden, R. R., Houston, Tex. Door-stop. No. 915,708; Mar. 16; Sp. p. 4241; Gaz. vol. 140; p. 731.
- Snowden, R. R., Houston, Tex. Dry separator. No. 935,421; Sept. 28; Sp. p. 4913; Gaz. vol. 146; p. 868.
- Snowdon, F. L. (See Beaudette and Snowdon.)
- Snyder, A. G., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 942,109; Dec. 7; Sp. p. 164; Gaz. vol. 149; p. 26.
- Snyder, A. H., F. C. Snyder, and J. P. Gaffney, Cumberland, Md. Mail catching and delivering apparatus. No. 908,898; Jan. 5; Sp. p. 963; Gaz. vol. 138; p. 153.
- Snyder, B. Y., assignor to Electric Utility Company, Salt Lake City, Utah. Electrically-heated curling-iron. No. 914,888; Mar. 9; Sp. p. 2593; Gaz. vol. 140; p. 433.
- Snyder, C. F., Massillon, Ohio. Combined railway-tie and rail-fastener. No. 921,746; May 18; Sp. p. 3398; Gaz. vol. 142; p. 605.
- Snyder, C. F., Camillus, N. Y. Milk-registering machine. No. 937,389; Oct. 19; Sp. p. 3733; Gaz. vol. 147; p. 640.
- Snyder, C. W., Hudson, N. Y. Internal-combustion engine. No. 918,211; Apr. 13; Sp. p. 2542; Gaz. vol. 141; p. 453.
- Snyder, C. W., Hudson, N. Y. Indicator. No. 932,825; Aug. 31; Sp. p. 6772; Gaz. vol. 145; p. 1161.
- Snyder, E. H., Canton, Ohio. Corn-planter. No. 943,283; Dec. 14; Sp. p. 2697; Gaz. vol. 149; p. 455.
- Snyder, F. C. (See Snyder and Gaffney.)
- Snyder, F. S., Newburgh, N. Y. Boiler. No. 911,685; Feb. 9; Sp. p. 1321; Gaz. vol. 139; p. 246.
- Snyder, F. T., Oak Park, assignor, by mesne assignments, to Electric Metals Company, Chicago, Ill. Treating zinc ores. No. 933,133; Sept. 7; Sp. p. 197; Gaz. vol. 146; p. 34.
- Snyder, F. T., Oak Park, assignor to Electric Metals Company, Chicago, Ill. Electric furnace. No. 942,110; Dec. 7; Sp. p. 173; Gaz. vol. 149; p. 26.
- Snyder, F. T., assignor to International Separator Company, Chicago, Ill. Ore-separator. No. 944,699; Dec. 28; Sp. p. 5749; Gaz. vol. 149; p. 995.
- Snyder, G. C., et al. (See Jones, A. M., assignor.)
- Snyder, H., and J. T. Hume, Newton, Iowa. Mechanical stoker. No. 943,712; Dec. 21; Sp. p. 3627; Gaz. vol. 149; p. 631.
- Snyder, H. F. B., Hood River, Oreg. Spraying apparatus. No. 930,627; Aug. 10; Sp. p. 2070; Gaz. vol. 145; p. 362.
- Snyder, H. H., Cleveland, Ohio. Acetylene-blowpipe. No. 912,500; Feb. 16; Sp. p. 3038; Gaz. vol. 139; p. 549.
- Snyder, H. P., Grand Rapids, Mich. Apparatus for distilling water. No. 916,798; Mar. 30; Sp. p. 6342; Gaz. vol. 140; p. 1133.
- Snyder, H. W., and C. M. Cronk, Montfort, Wis. Metallic railway-tie. No. 923,307; June 1; Sp. p. 458; Gaz. vol. 143; p. 64.
- Snyder, J., Barborton, Ohio. Potato-seed cutter. No. 924,393; June 8; Sp. p. 2823; Gaz. vol. 143; p. 459.
- Snyder, J. B., Plum Run, Pa. Cant-hook. No. 940,207; Nov. 16; Sp. p. 3908; Gaz. vol. 148; p. 664.
- Snyder, J. E., Swissvale, Pa., assignor to Westinghouse Machine Company. Turbine-blading. No. 941,389; Nov. 30; Sp. p. 6497; Gaz. vol. 148; p. 1105.
- Snyder, J. E., Swissvale, Pa., assignor to Westinghouse Machine Company. Blade-mounting means. No. 943,480; Dec. 14; Sp. p. 3105; Gaz. vol. 149; p. 523.
- Snyder, J. G., Altoona, Pa. Metallic railway-tie. No. 291,297; May 11; Sp. p. 2459; Gaz. vol. 142; p. 428.
- Snyder, J. G., Altoona, Pa. Metallic railway-tie. No. 921,298; May 11; Sp. p. 2460; Gaz. vol. 142; p. 428.
- Snyder, J. G., Altoona, Pa. Metallic railway-tie. No. 939,343; Nov. 9; Sp. p. 1974; Gaz. vol. 148; p. 336.
- Snyder, L. C., Mount Carmel, Ill. Cuspidor. No. 917,673; Apr. 6; Sp. p. 1379; Gaz. vol. 141; p. 243.
- Snyder, L. M., Reynoldsville, Pa. Neck-yoke hook. No. 929,040; July 27; Sp. p. 4831; Gaz. vol. 144; p. 864.
- Snyder, O. M., et al. (See Jones, A. M., assignor.)
- Snyder, P. K., Lancaster, Pa. Device for tying shoes. No. 914,983; Mar. 9; Sp. p. 2743; Gaz. vol. 140; p. 462.
- Snyder, R. R., et al. (See Seyler, U. M., assignor.)
- Snyder, S. L., and S. Jacklin, Holgate, Ohio. Flour-machine. No. 911,913; Feb. 9; Sp. p. 1734; Gaz. vol. 139; p. 320.
- Snyder, U. S., Canton, Ohio. Automobile. No. 931,893; Aug. 24; Sp. p. 4797; Gaz. vol. 145; p. 828.
- Snyder, W., St. Louis, Mo. Mixing apparatus. No. 929,719; Aug. 3; Sp. p. 166; Gaz. vol. 145; p. 30.



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 Snyder, W. A., Avis, Pa. Folding basket. No. 932,826; Aug. 31; Sp. p. 6774; Gaz. vol. 145; p. 1162.  
 Snyder, W. H., Kenton, Ohio. Pneumatic tire. No. 921,174; May 11; Sp. p. 2198; Gaz. vol. 142; p. 387.  
 Snyder, W. H., Ashbourne, Pa. Electrically-operated release for doors. No. 938,175; Oct. 26; Sp. p. 5395; Gaz. vol. 147; p. 921.  
 Snyder, W. J., Aiken, S. C. Cabinet for displaying lace. No. 929,889; Aug. 3; Sp. p. 577; Gaz. vol. 145; p. 91.  
 Snyder, W. K., Kimberlton, Pa. Veneer-press. No. 924,591; June 8; Sp. p. 3206; Gaz. vol. 143; p. 524.  
 Snyder, W. W., Skylight, Ky. Wire-stretcher. No. 937,881; Oct. 26; Sp. p. 4760; Gaz. vol. 147; p. 823.  
 Soans, C. A. (See Roberts, Soans, and Graves.)  
 Sober, C. K., Lewisburg, Pa. Acetylene-gas apparatus. No. 933,793; Sept. 14; Sp. p. 1691; Gaz. vol. 146; p. 280.  
 Sobers, E. F., Bethlehem, Pa. Dough-shaper. No. 944,289; Dec. 28; Sp. p. 4831; Gaz. vol. 149; p. 852.  
 Sobinski, C. O., St. Louis, Mo. Air pump or compressor. No. 919,484; Apr. 27; Sp. p. 5434; Gaz. vol. 141; p. 936.  
 Soblik, M., et al. (See Soblik, P., assignor.)  
 Soblik, M., Dusseldorf, Germany. Method of and apparatus for duplicating type-written documents. No. 914,464; Mar. 9; Sp. p. 1709; Gaz. vol. 140; p. 293.  
 Soblik, P., assignor to F. Koch and M. Soblik, Magdeburg, Germany. Sostenuto piano. No. 913,990; Mar. 2; Sp. p. 710; Gaz. vol. 140; p. 111.  
 Sobotka, R., Hartselle, Ala. Gradient instrument. No. 928,557; July 20; Sp. p. 3856; Gaz. vol. 144; p. 675.  
 Sochurek, F., Sr., Milwaukee, Wis. Washing apparatus. No. 915,898; Mar. 23; Sp. p. 4617; Gaz. vol. 140; p. 818.  
 Società Anonima di Costruzioni Meccaniche Freni a Ricupero Cantono. (See Cantono, E., assignor.)  
 Società Anonima Fiat-San Giorgio. (See Laurenti, C., assignor.)  
 Società Anonima Italiana Gio. Ansaldo Armstrong & C. (See Giolitti, F., assignor.)  
 Società Anonima per Frigoriferi e Motori "Motofrigoir." (See Scaramuzza, G., assignor.)  
 Società Cemento Armato e Retinato Gabellini. (See Gabellini, C., assignor.)  
 Société A. Olier & Cie. (See Olier, A., assignor.)  
 Société Alsacienne de Constructions Mécaniques. (See Wenning, J. C. A., assignor.)  
 Société anonyme des Automobiles Eugene Brillié. (See Brillié, A. E., assignor.)  
 Société Anonyme Des-Hauts-Fourneaux et Forges de Dudelange. (See Flohr, J., assignor.)  
 Société Anonyme des Usines A. E. Decouffe. (See Guéniffet and Nicault, assignors.)  
 Société Anonyme des Voitures Electriques Védrine. (See Bary, C. P., assignor.)  
 Société Anonyme L' Electrique. (See Ducasse, H., assignor.)  
 Société anonyme l'Oxyhydrique Internationale. (See Jottrand, F., assignor.)  
 Société Anonyme l'Oxyhydrique Internationale. (See Lulli, P., assignor.)  
 Société Anonyme pour la Fabrication des Pates à Papier de Lin et Succédanés. (See Ballore, A. M. de M. de, assignor.)  
 Société Ch. Legrand et Cie. (See Armel and Legrand, assignors.)  
 Société Chimique des Usines du Rhone. (See Paulard and Grillet, assignors.)  
 Société d'Etudes pour la Fabrication des Tubes sans Soudure (Brevets et Procédés Lambert-Cardozo). (See Lambert and Cardozo, assignors.)  
 Société des Applications de l'Acétylène. (See Odam, E., assignor.)  
 Société des Jantes Amovibles. (See Lemercier, M. A., assignor.)  
 Société des Moteurs Sabathe. (See Sabathé, L. G., assignor.)  
 Société Electro-Metallurgique Française. (See Heroult, P. L. T., assignor.)  
 Société Electro Metallurgique Française. (See Sejourner, P., assignor.)  
 Société Française de La Viscose. (See Chorier, L. M. assignor.)  
 Société Française de la Viscose. (See Defaucamberge, P., assignor.)  
 Société Française de la Viscose. (See Delubac, A., assignor.)  
 Société Lecaron Fils. (See Deslot, E., assignor.)  
 Société Metallurgique du Perigord. (See Billé, L., assignor.)  
 Société Montupet & Co. (See Montupet P., assignor.)  
 Société Universelle des Appareils Controleurs. (See Soulage, G. I. F., assignor.)  
 Society "Flussige Luft" Maschinen und Apparate-System Paulus Heylandt G. m. b. H. (See Heylandt, P., assignor.)  
 Society of Chemical Industry in Basle. (See Engi, G., assignor.)  
 Society of Chemical Industry in Basle. (See Engi and Kappeler, assignors.)  
 Society of Chemical Industry in Basle. (See Hoffmann, J., assignor.)  
 Society of Chemical Industry in Basle. (See Jagerspacher, C., assignor.)  
 Society of Chemical Industry in Basle. (See Kraft, H., assignor.)  
 Society of Chemical Industry in Basle. (See Mayer and Pfannenstiel, assignors.)  
 Society of Chemical Industry in Basle. (See Schaarschmidt and Mayer.)  
 Society of Chemical Industry in Basle. (See Schedler, A., assignor.)  
 Society of Chemical Industry in Basle. (See Suter, G., assignor.)  
 Sodeau, W. H., assignor to W. G. Armstrong Whitworth & Company, Limited, Newcastle-upon-Tyne, England. Heating of compressed air for use in motors. No. 944,975; Dec. 28; Sp. p. 6333; Gaz. vol. 149; p. 1087.  
 Soden, A. J., Newark, N. J. Capped projectile. No. 918,923; Apr. 20; Sp. p. 4095; Gaz. vol. 141; p. 718.  
 Soden, J. K., Chicago, Ill. High-tension insulator. No. 912,501; Feb. 16; Sp. p. 3039; Gaz. vol. 139; p. 550.  
 Soden, M. J. (See Soden, M. R. and M. J.)  
 Soden, M. R. and M. J., Paterson, N. J. Hat-guard. No. 942,678; Dec. 7; Sp. p. 1339; Gaz. vol. 149; p. 220.  
 Sodergren, E., New York, N. Y. Attachment for woodworking-machines. No. 915,496; Mar. 16; Sp. p. 3780; Gaz. vol. 140; p. 658.  
 Soderling, A., Chicago, Ill. Combined chair and shoe-polishing cabinet. No. 911,082; Feb. 2; Sp. p. 116; Gaz. vol. 139; p. 22.  
 Soderstrand, A. W., Berthoud, Colo. Pocket-knife. No. 912,197; Feb. 9; Sp. p. 2385; Gaz. vol. 139; p. 411.  
 Söderström, G. L., Sundsvall, Sweden. Course-pointer. No. 944,055; Dec. 21; Sp. p. 4352; Gaz. vol. 149; p. 750.  
 Soderstrom, J. A., Chicago, Ill. Necktie. No. 940,992; Nov. 23; Sp. p. 5615; Gaz. vol. 148; p. 951.  
 Soderstrom, K. A., assignor to Midvale Steel Company, Philadelphia Pa. Apparatus for centering symmetrical metal pieces. No. 927,890; July 13; Sp. p. 2480; Gaz. vol. 144; p. 423.  
 Soeasy Garter Company. (See Tacy, E. M., assignor.)  
 Soeldner, H., East Williamsburg, assignor to De La Vergne Machine Company, New York, N. Y. Fuel-injection nozzle for oil-engines. No. 937,390; Oct. 19; Sp. p. 3736; Gaz. vol. 147; p. 640.  
 Soennecken, F., and E. C. Magnus, assignors to Firm of F. Soennecken, Bonn, Germany. Winding attachment for copying-machines. No. 921,475; May 11; Sp. p. 2842; Gaz. vol. 142; p. 488.  
 Soennecken, Firm of F. (See Soennecken and Magnus, assignors.)  
 Soentgen, P. H., Ford City, Pa. Brace for dump-wagons. No. 922,969; May 25; Sp. p. 5925; Gaz. vol. 142; p. 1133.  
 Soest, H. W. (See Harris, Johnson, and Soest.)  
 Soife, J., assignor to U. S. Paper Goods Company, Cincinnati, Ohio. Paper bag. No. 943,126; Dec. 14; Sp. p. 2373; Gaz. vol. 149; p. 403.  
 Sohlberg, E. W. (See Lehman, Brown, and Sohlberg.)  
 Sohm, A. L., Los Angeles, Cal. Electric signal system. No. 944,003; Dec. 21; Sp. p. 4248; Gaz. vol. 149; p. 732.  
 Sohm, A. L., assignor to National Electric Works, Whittier, Cal. Telephone-jack. No. 926,831; July 6; Sp. p. 266; Gaz. vol. 144; p. 42.  
 Sohni, O., and H. Mehl, Buffalo, N. Y. Lock. No. 912,910; Feb. 16; Sp. p. 3900; Gaz. vol. 139; p. 687.  
 Soistmann, A. G., Philadelphia, Pa. Horn. No. 944,516; Dec. 28; Sp. p. 5356; Gaz. vol. 149; p. 933.  
 Sokolov, J. (See Gibbs and Sokolov.)  
 Solatinow, J., Passaic, N. J. Safety-stirrump. No. 918,212; Apr. 13; Sp. p. 2545; Gaz. vol. 141; p. 453.  
 Solaway, A. A., New York, N. Y. Sash-lock. No. 928,339; July 20; Sp. p. 3436; Gaz. vol. 144; p. 605.  
 Solberg, I., Stamford, S. D. Bench-clamp. No. 909,469; Jan. 12; Sp. p. 2094; Gaz. vol. 138; p. 372.  
 Solem, P. A. (See Thomas and Solem.)  
 Soles, O., Louisville, Ohio. Flight-extractor. No. 943,322; Dec. 14; Sp. p. 2767; Gaz. vol. 149; p. 467.  
 Soles, W. A., New York, N. Y. Hair-drying apparatus. No. 921,476; May 11; Sp. p. 2844; Gaz. vol. 142; p. 489.  
 Soles, W. A., New York, N. Y. Hair-drying apparatus. No. 939,106; Nov. 2; Sp. p. 1389; Gaz. vol. 148; p. 226.  
 Soley, F., assignor to Miller Lock Company, Philadelphia, Pa. Padlock. No. 910,967; Jan. 26; Sp. p. 5161; Gaz. vol. 138; p. 930.  
 Soley, F., assignor to Miller Lock Co., Philadelphia, Pa. Padlock. No. 932,343; Aug. 24; Sp. p. 5739; Gaz. vol. 145; p. 979.  
 Solley, S. J. E., Cambridge, Mass. Woven fabric and producing the same. No. 919,485; Apr. 27; Sp. p. 5439; Gaz. vol. 141; p. 937.  
 Solliday, D. F., Oklahoma, Okla. Device for cooling-rooms. No. 925,605; June 22; Sp. p. 5245; Gaz. vol. 143; p. 923.  
 Solomon, C. J., Palmyra, Ill. Adjustable field-roller. No. 934,942; Sept. 21; Sp. p. 3956; Gaz. vol. 146; p. 686.  
 Solomon, D. W., McMurray, Wash. Animal-trap. No. 934,699; Sept. 21; Sp. p. 3475; Gaz. vol. 146; p. 605.  
 Solomon, I. E., Oakland, Cal. Door-key. No. 913,923; Mar. 2; Sp. p. 546; Gaz. vol. 140; p. 88.  
 Solomon, J., et al. (See Minderlein, W., assignor.)  
 Solomon, J. I., New York, N. Y. Examining matter or objects in quantities. No. 928,888; July 20; Sp. p. 4525; Gaz. vol. 144; p. 788.

*Alphabetical list of patentees—Continued.*

- Solomon, L. (See Zinow, C., assignor.)  
 Solomon, M., *et al.* (See Minderlein, W., assignor.)  
 Solox Chemical Company. (See Talcott, F. L., assignor.)  
 Solvay, E., Brussels, Belgium. Continuous heat-interchanging arrangement for coke-ovens. No. 914,525; Mar. 9; Sp. p. 1836; Gaz. vol. 140; p. 313.  
 Solvay Process Company. (See Brieux, A., assignor.)  
 Solvay Process Company. (See Decker, W. H., assignor.)  
 Solvay Process Company. (See Pennock, J. D., assignor.)  
 Solvay Process Company. (See Trump, E. N., assignor.)  
 Somers, C. E., assignor of one-third to R. I. Blakeslee, Los Angeles, Cal. Wrench. No. 929,797; Aug. 3; Sp. p. 350; Gaz. vol. 145; p. 59.  
 Somers, C. W. (See Green, J. L., assignor.)  
 Somers, E. X., St. Johnsbury, Vt. Vending-machine. No. 919,390; Apr. 27; Sp. p. 5213; Gaz. vol. 141; p. 904.  
 Somerville, H. N. (See Olson, C. W., assignor.)  
 Sommer, B. L., executor. (See Sommer, J. W., P. W., and W. H.)  
 Sommer, J. L., Newark, N. J. Combined bottle-opener and cigar-cutter. No. 936,678; Oct. 12; Sp. p. 2275; Gaz. vol. 147; p. 377.  
 Sommer, J. W., deceased, (B. L. Sommer, executor,) P. W., and W. H., Peoria, assignors to Keystone Steel & Wire Company, South Bartonville, Ill. Wire-fence machine. No. 937,968; Oct. 26; Sp. p. 4930; Gaz. vol. 147; p. 851.  
 Sommer, L. J., Jr., Philadelphia, Pa. Quick-acting bib-cock. No. 933,859; Sept. 14; Sp. p. 1835; Gaz. vol. 146; p. 303.  
 Sommer, P. W. (See Sommer, J. W., P. W., and W. H.)  
 Sommer, P. W., Peoria, Ill. Calculating device. No. 944,218; Dec. 21; Sp. p. 4672; Gaz. vol. 149; p. 801.  
 Sommer, V. C. (See Livergood, G. R., assignor.)  
 Sommer, W. H. (See Sommer, J. W., P. W., and W. H.)  
 Sommerfeld, A. (See Baehr and Sommerfeld.)  
 Somerville, R. A., near Skidmore, Tex. Lamp-burner. No. 913,173; Feb. 23; Sp. p. 4435; Gaz. vol. 139; p. 800.  
 Son, M. (See Son, W. H., assignor.)  
 Son, W. H., Wilkes-Barre, Pa. Shock-absorbing apparatus. No. 912,749; Feb. 16; Sp. p. 3623; Gaz. vol. 139; p. 637.  
 Son, W. H., assignor to M. Son, New York, N. Y. Car-truck. No. 940,901; Nov. 23; Sp. p. 5435; Gaz. vol. 143; p. 921.  
 Son, W. H., assignor to M. Son, New York, N. Y. Car. No. 940,902; Nov. 23; Sp. p. 5437; Gaz. vol. 143; p. 921.  
 Sonander, A., assignor to Winters-Coleman Scale Company, Springfield, Ohio. Adjustable hopper for automatic weighing-machines. No. 934,849; Sept. 21; Sp. p. 3772; Gaz. vol. 146; p. 654.  
 Sonander, A., assignor to American Grain Meter Company, Springfield, Ohio. Automatic weighing apparatus. No. 942,942; Dec. 14; Sp. p. 1952; Gaz. vol. 149; p. 340.  
 Sone, L. K., New York, N. Y. Collapsible stand for chafing-dishes, &c. No. 923,208; June 1; Sp. p. 185; Gaz. vol. 143; p. 30.  
 Sonka, W. J., Cedar Rapids, Iowa. Milk-cooler. No. 934,227; Sept. 14; Sp. p. 2560; Gaz. vol. 146; p. 423.  
 Sonnenberg, W., Berlin, Germany. Cage for ball-bearings. No. 918,785; Apr. 20; Sp. p. 3782; Gaz. vol. 141; p. 671.  
 Sonneborn, C. West Pittsburg, assignor to Garland Nut & Rivet Company, Pittsburg, Pa. Nut-finishing machine. No. 934,419; Sept. 14; Sp. p. 2017; Gaz. vol. 146; p. 488.  
 Sonenthal, G. (See Kustner, P. A., assignor.)  
 Sonenthal, G. (See Longdin, T., assignor.)  
 Sonnichsen, A. M., assignor, by mesne assignments, to E. B. Arnold, Milwaukee, Wis. Publication-binder. No. 917,674; Apr. 6; Sp. p. 1380; Gaz. vol. 141; p. 243.  
 Sonnichsen, A. M., assignor to J. T. Brett Grain Saver Co., Milwaukee, Wis. Attachment for harvester-reels. No. 925,664; June 22; Sp. p. 5373; Gaz. vol. 143; p. 941.  
 Sonntag, M. E. C., New York, N. Y. Amusement apparatus. No. 913,243; Feb. 23; Sp. p. 4589; Gaz. vol. 139; p. 823.  
 Sontag, J., West New York, N. J. Controller attachment. No. 929,041; July 27; Sp. p. 4833; Gaz. vol. 144; p. 865.  
 Soper, A., Detroit, Mich. Window-kitchen. No. 942,979; Dec. 14; Sp. p. 2032; Gaz. vol. 149; p. 352.  
 Soper, G. E., Kankakee, Ill. Stand for grinding-wheels. No. 925,845; June 22; Sp. p. 5796; Gaz. vol. 143; p. 1003.  
 Soper, L. N., Guelph, Ontario, Canada. Piano-action. No. 924,394; June 8; Sp. p. 2825; Gaz. vol. 143; p. 460.  
 Sord, F. A., Stockton, Cal. Hoe. No. 926,220; June 29; Sp. p. 6583; Gaz. vol. 143; p. 1163.  
 Sorensen, J. P., Salt Lake City, Utah. Flue-cutter. No. 943,323; Dec. 14; Sp. p. 2768; Gaz. vol. 149; p. 467.  
 Sorensen, S. S., and G. C. Westby, Murray, Utah. Treating precious-metal-bearing material. No. 914,680; Mar. 9; Sp. p. 2166; Gaz. vol. 140; p. 363.  
 Sorenson, E., Emmett, Idaho. Apparatus for treating grain. No. 941,821; Nov. 30; Sp. p. 7431; Gaz. vol. 148; p. 1249.  
 Sorlin, J., *et al.* (See Loftus, L. F., assignor.)  
 Sory, A. H., Saltillo, Miss. Cotton-gin. No. 929,335; July 27; Sp. p. 5499; Gaz. vol. 144; p. 964.  
 Sosbee, A. M. (See Mirale, M. W., assignor.)  
 Soseene, W. J., Emeryville, Cal. Automatic train-stop. No. 942,189; Dec. 7; Sp. p. 344; Gaz. vol. 149; p. 53.  
 Sosnowski, T., Chicago, Ill. Burial-casket. No. 922,819; May 25; Sp. p. 5618; Gaz. vol. 142; p. 984.  
 Soss, F. (See Canfield, H. R., assignor.)  
 Soss, J., New York, N. Y. Wheel. No. 913,066; Feb. 23; Sp. p. 4216; Gaz. vol. 139; p. 763.  
 Soss, J., and A. W. Christianson, New York, N. Y. Casting-machine. No. 936,378; Oct. 12; Sp. p. 1626; Gaz. vol. 147; p. 276.  
 Soss, J., and A. W. Christianson, New York, N. Y. Casting-machine. No. 936,486; Oct. 12; Sp. p. 1880; Gaz. vol. 147; p. 311.  
 Soto, A., Mexico, Mexico. Machine for sowing seed. No. 933,134; Sept. 7; Sp. p. 201; Gaz. vol. 146; p. 34.  
 Souder, H. W., Tamaqua, Pa. Railway-crossing signal. No. 911,623; Feb. 9; Sp. p. 1184; Gaz. vol. 139; p. 225.  
 Souder, H. W., Tamaqua, Pa., assignor of one-fourth to E. Z. Breed, Cleveland, Ohio, and one-fourth to M. Z. Bradshaw, Conshohocken, Pa. Electric signaling system. No. 915,237; Mar. 16; Sp. p. 3275; Gaz. vol. 140; p. 573.  
 Souder, H. W., Tamaqua, Pa., assignor of one-fourth to E. Z. Breed, Cleveland, Ohio, and one-fourth to M. Z. Bradshaw, Conshohocken, Pa. Electric road-crossing signal. No. 915,238; Mar. 16; Sp. p. 3281; Gaz. vol. 140; p. 573.  
 Souder, J. J., Washington, D. C. Headless and threadless bolt. No. 911,624; Feb. 9; Sp. p. 1187; Gaz. vol. 139; p. 225.  
 Soulage, G. J. F., assignor to Société Universelle des Appareils Contrôleurs, Paris, France. Apparatus for the control and the registration of the operations performed by distributing-machines. No. 941,892; Nov. 30; Sp. p. 7574; Gaz. vol. 148; p. 1275.  
 Soule, H. C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical apparatus. No. 921,018; May 11; Sp. p. 1881; Gaz. vol. 142; p. 333.  
 Soule, H. C., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. System of electric-motor control. No. 934,470; Sept. 21; Sp. p. 3025; Gaz. vol. 146; p. 527.  
 Soule, I. C. (See Caven, T. M., assignor.)  
 Soule, S., Portland, Oreg. Reservoir attachment for penholders. No. 929,172; July 27; Sp. p. 5113; Gaz. vol. 144; p. 908.  
 Sourek, J. S., Bath township, Summit county, Ohio. Mop-head. No. 911,773; Feb. 9; Sp. p. 1472; Gaz. vol. 139; p. 275.  
 Sourek, J. S., Bath township, Summit county, Ohio. Attachment for currycombs, brushes, &c. No. 924,010; June 8; Sp. p. 2004; Gaz. vol. 143; p. 332.  
 Sourek, J. S., Bath township, Summit county, Ohio. Buckle. No. 935,279; Sept. 28; Sp. p. 4631; Gaz. vol. 146; p. 823.  
 Sourek, J. S., Bath township, Summit county, Ohio. Buckle. No. 935,557; Sept. 28; Sp. p. 5211; Gaz. vol. 146; p. 914.  
 Sourek, R. U., Akron, Ohio. Buckle. No. 934,577; Sept. 21; Sp. p. 3224; Gaz. vol. 146; p. 563.  
 Soutley, J. C. (See Gibson, N. L., assignor.)  
 Soutar, J. L., Seattle, Wash. Split-switch quadrant adjustment. No. 939,561; Nov. 9; Sp. p. 2457; Gaz. vol. 148; p. 408.  
 South Bend Universal Roller Screen Company. (See Flora, C. P., assignor.)  
 South Penn Oil Company. (See Clarke, A., assignor.)  
 Southard, J. B., *et al.* (See Brent, J. T., Second, assignor.)  
 Souther, H., Hartford, Conn. Endurance-testing machine. No. 926,513; June 29; Sp. p. 7120; Gaz. vol. 143; p. 1257.  
 Southerland, J. M., Monte Ne, Ark. Mold for making nest-eggs. No. 940,208; Nov. 16; Sp. p. 3909; Gaz. vol. 148; p. 664.  
 Southerland, R. W., Mobile, Ala. Cut-off gate for stills. No. 926,905; July 6; Sp. p. 415; Gaz. vol. 144; p. 67.  
 Southern Ferro-Concrete Company. (See Berne, F. A., assignor.)  
 Southern Indiana Electrical Company. (See Beaucond, F. J., assignor.)  
 Southern Pacific Milling Company. (See Basham and Donaldson, assignors.)  
 Southern Shovel Manufacturing Company. (See Norris and Marshall assignors.)  
 Southgate, L. W., Worcester, Mass., assignor, by mesne assignments, to Detroit Trust Co., trustee, Detroit, Mich. Printing-machine. No. 942,980; Dec. 14; Sp. p. 2033; Gaz. vol. 149; p. 353.  
 Southgate Machinery Co. (See Upham, B. F., assignor.)  
 Southark Foundry and Machine Company. (See Petsche, G. B., assignor.)  
 Southwell, J., assignor to Atlantic Mills, Providence, R. I. Combing-machine. No. 933,207; Sept. 7; Sp. p. 389; Gaz. vol. 146; p. 61.  
 Southwick, E. D., Granite City, Ill. Gutter-hanger. No. 918,786; Apr. 20; Sp. p. 3782; Gaz. vol. 141; p. 671.  
 Southwick, F. M., Fredonia, N. Y. Package-holder. No. 922,054; May 18; Sp. p. 4041; Gaz. vol. 142; p. 706.



*Alphabetical list of patentees—Continued.*

- Southwick, J. I., assignor of one-half to L. P. Neil, Fresno, Cal. Shoe-retainer. No. 920,680; May 4; Sp. p. 1205; Gaz. vol. 142; p. 194.
- Southwick, W. S., assignor to Draper Company, Hopedale, Mass. Magazine for automatic weft-replenishing looms. No. 930,812; Aug. 10; Sp. p. 2440; Gaz. vol. 145; p. 423.
- Southworth, A. M., Cucamonga, assignor of one-half to G. R. Thayer, Riverside, Cal. Cutter-thimble for grape and other picking. No. 931,511; Aug. 17; Sp. p. 3975; Gaz. vol. 145; p. 685.
- Southworth, D. C., South Bend, Ind. Tool. No. 942,293; Dec. 7; Sp. p. 567; Gaz. vol. 149; p. 90.
- Southworth, H. E., Colchester, assignor to Porter Screen Manufacturing Company, Burlington, Vt. Curtain-stretcher. No. 929,991; Aug. 3; Sp. p. 784; Gaz. vol. 145; p. 12.
- Sovereign, G. E., Pottersville, N. J. Attrition-plate for leather-shredding mills. No. 938,798; Nov. 2; Sp. p. 741; Gaz. vol. 148; p. 120.
- Sovereign, G. E., Pottersville, N. J. Grinding-mill. No. 942,357; Dec. 7; Sp. p. 687; Gaz. vol. 149; p. 111.
- Sower, J. D., Elmo, Kans. Spring-wheel. No. 927,009; July 6; Sp. p. 628; Gaz. vol. 144; p. 102.
- Sowers, D. W. (See Walker, H. D., assignor.)
- Sowers, W. P., assignor of one-half to H. C. Howe, Valley View, Ky. Gate. No. 913,574; Feb. 23; Sp. p. 5281; Gaz. vol. 139; p. 935.
- Sox, D. A., Columbia, S. C. Door stop and holder. No. 942,943; Dec. 14; Sp. p. 1958; Gaz. vol. 149; p. 340.
- Spaak, G., Bergvik, Sweden. Wood-barking apparatus. No. 944,290; Dec. 28; Sp. p. 4832; Gaz. vol. 149; p. 853.
- Spaar, J., Katonah, N. Y. Mounting for eyeglasses. No. 930,895; Aug. 10; Sp. p. 2629; Gaz. vol. 145; p. 450.
- Spaar, J., Katonah, N. Y. Tool. No. 938,083; Oct. 26; Sp. p. 5199; Gaz. vol. 147; p. 890.
- Spaack, J. P., Dime Box, Tex. Vegetable-cutter. No. 925,663; June 22; Sp. p. 5372; Gaz. vol. 143; p. 941.
- Spachholz, L., and J. Wingerson, Kittanning, Pa. Apparatus for grinding plate-glass. No. 916,935; Mar. 30; Sp. p. 6623; Gaz. vol. 140; p. 1180.
- Spachholz, L., and J. Wingerson, Kittanning, Pa. Grinding plate-glass. No. 921,477; May 11; Sp. p. 2845; Gaz. vol. 142; p. 489.
- Spacie, T., Chicago, Ill. Roller-skate. No. 917,499; Apr. 6; Sp. p. 1062; Gaz. vol. 141; p. 186.
- Spacie, T., Chicago, Ill. Roller-skate. No. 939,451; Nov. 9; Sp. p. 2232; Gaz. vol. 148; p. 371.
- Spackman, H. S. (See Lesley and Spackman.)
- Spackman, H. S., Ardmore, Pa. Cement-burning apparatus. No. 920,784; May 4; Sp. p. 1398; Gaz. vol. 142; p. 226.
- Spady, L., Portland, Oreg. Show-case. No. 922,820; May 25; Sp. p. 5620; Gaz. vol. 142; p. 984.
- Spady, L., assignor of one-half to R. Lutke, Portland, Oreg. Knife-guard for jointers. No. 944,976; Dec. 28; Sp. p. 6336; Gaz. vol. 149; p. 1087.
- Spahn, A., Louisville, Ky. Binder for books. No. 929,042; July 27; Sp. p. 4834; Gaz. vol. 144; p. 865.
- Spahn, H., Chicago, Ill. Micrometer. No. 939,562; Nov. 9; Sp. p. 2459; Gaz. vol. 148; p. 408.
- Spahr, E. J., assignor of one-half to O. Semler and E. Bohrmann, New York, N. Y. Means for attaching axle-boxes. No. 941,822; Nov. 30; Sp. p. 7433; Gaz. vol. 148; p. 1250.
- Spaid, F. M., and F. F. Green, Buffalo, Ohio. Trolley cut-out. No. 910,596; Jan. 26; Sp. p. 4456; Gaz. vol. 138; p. 812.
- Spain, C. L., *et al.* (See Dunaway, N. S., assignor.)
- Spain, S., Watertown, N. Y. Traveling rocking-horse. No. 937,109; Oct. 19; Sp. p. 3123; Gaz. vol. 147; p. 549.
- Spain, W., St. Louis, Mo., assignor of one-half to Corn Products Refining Company, New York, N. Y. Machine for applying ears to palls. No. 929,798; Aug. 3; Sp. p. 352; Gaz. vol. 145; p. 59.
- Spain, W., St. Louis, Mo., assignor to Corn Products Refining Company, New York, N. Y. Can-feeder. No. 944,828; Dec. 28; Sp. p. 6038; Gaz. vol. 149; p. 1039.
- Spake, W. H., *et al.* (See Davis, O. S., assignor.)
- Spalckhaver, W., assignor to R. Hoe, New York, N. Y. Inking mechanism. No. 937,267; Oct. 19; Sp. p. 3480; Gaz. vol. 147; p. 601.
- Spalding, C. M., Schenectady, N. Y., assignor to General Electric Company. Rotary fan. No. 930,701; Aug. 10; Sp. p. 2216; Gaz. vol. 145; p. 386.
- Spalding, G., Stockton, Cal. Tilling-machine. No. 942,469; Dec. 7; Sp. p. 926; Gaz. vol. 149; p. 149.
- Spalding, G. M., St. Louis, Mo. Switch-operating device. No. 923,590; June 1; Sp. p. 1074; Gaz. vol. 143; p. 164.
- Spamer, R. F., Chicago, Ill., assignor to Consolidated Fire Alarm Company, New York, N. Y. Valve alarm attachment. No. 912,432; Feb. 16; Sp. p. 2904; Gaz. vol. 139; p. 527.
- Spandau, R. C., assignor of one-third to H. F. Vogel and one-third to F. Kohout, Danville, Ill. Track-laying apparatus. No. 936,679; Oct. 12; Sp. p. 2276; Gaz. vol. 147; p. 378.
- Spang, J. O., assignor of one-half to J. E. Hammell, Haileybury, Ontario, Canada. Automatic swivel-lamp for automobiles. No. 922,055; May 18; Sp. p. 4043; Gaz. vol. 142; p. 707.
- Spangle, W. G., Milton, and G. W. Parsons, Williamsport, Pa. Filing means for railroad tariffs, circulars, &c. No. 909,245; Jan. 12; Sp. p. 1666; Gaz. vol. 138; p. 300.
- Spangler, A. B., New Orleans, La. Fountain-pen. No. 937,110; Oct. 19; Sp. p. 3126; Gaz. vol. 147; p. 550.
- Spangler, H. J., Pittsburgh, Pa. Wheelbarrow. No. 944,291; Dec. 28; Sp. p. 4835; Gaz. vol. 149; p. 853.
- Spangler, J. M., Canton, assignor to Electric Suction Sweeper Company, New Berlin, Ohio. Carpet sweeper and cleaner. No. 935,558; Sept. 28; Sp. p. 5213; Gaz. vol. 146; p. 915.
- Spangler, J. M., Canton, assignor to Electric Suction Sweeper Company, New Berlin, Ohio. Carpet sweeper and-cleaner. No. 935,559; Sept. 28; Sp. p. 5215; Gaz. vol. 146; p. 915.
- Spannager, C., Mannheim, assignor to Zuckerfabrik Frankenthal, Frankenthal, Germany. Apparatus for starting and stopping electric motors. No. 943,047; Dec. 14; Sp. p. 2214; Gaz. vol. 149; p. 376.
- Spannuth, W., and M. Dünnebler, Dresden, and M. R. Dünnebler, Elberfeld, assignors to C. Herzberg, Cologne, Germany. Machine for manufacturing envelopes and the like. No. 934,943; Sept. 21; Sp. p. 3958; Gaz. vol. 146; p. 687.
- Spansail, G. H., Chicago, Ill., assignor to Chicago Laundry Machinery Co. Ironing-machine. No. 933,928; Sept. 14; Sp. p. 1967; Gaz. vol. 146; p. 324.
- Spansail, G. H., Chicago, Ill., assignor to Chicago Laundry Machinery Co. Dampening-machine. No. 944,517; Dec. 28; Sp. p. 5357; Gaz. vol. 140; p. 333.
- Sparano, G., Philadelphia, Pa. Bottle and stopper therefor. No. 917,675; Apr. 6; Sp. p. 1381; Gaz. vol. 141; p. 244.
- Sparklin, W., Petersburg, Va. Interest and time calculating sheet. No. 927,693; July 13; Sp. p. 2068; Gaz. vol. 144; p. 359.
- Sparks, D. A., Monkton, Md. Grave-filling apparatus. No. 937,882; Oct. 26; Sp. p. 4761; Gaz. vol. 147; p. 823.
- Sparks, G. M. (See Gates, L. A., assignor.)
- Sparks, G. M. (See Huse, B., assignor.)
- Sparks, H. L., Palestine, assignor of one-half to F. M. McConnell, Longview, Tex. Electrical trolley-replacer. No. 911,847; Feb. 9; Sp. p. 1605; Gaz. vol. 139; p. 298.
- Sparks, J. C., Georgetown, S. C. Wrench. No. 918,787; Apr. 20; Sp. p. 3784; Gaz. vol. 141; p. 671.
- Sparks, J. L., assignor to Automatic Vacuum Pump Company, St. Louis, Mo. Vacuum steam-heating-system. No. 929,800; Aug. 3; Sp. p. 362; Gaz. vol. 145; p. 60.
- Sparks, J. L., and E. R. Eddins, St. Louis, Mo. Heating system. No. 929,720; Aug. 3; Sp. p. 168; Gaz. vol. 145; p. 30.
- Sparks, J. L., and E. R. Eddins, assignors to Automatic Vacuum Pump Company, St. Louis, Mo. Vacuum-pump. No. 929,799; Aug. 3; Sp. p. 355; Gaz. vol. 145; p. 60.
- Sparks, J. W., Sabina, Ohio. Automatic railway-switch. No. 921,175; May 11; Sp. p. 2199; Gaz. vol. 142; p. 388.
- Sparks, L., administrator. (See Perky, H. D.)
- Sparks, L. H., Warren, Ohio. Brush-holder. No. 930,427; Aug. 10; Sp. p. 1623; Gaz. vol. 145; p. 293.
- Sparks, L. J., Idaville, assignor of two-thirds to G. W. Allen, Monon, Ind. Metal railway-tie. No. 943,048; Dec. 14; Sp. p. 2217; Gaz. vol. 149; p. 376.
- Sparks, W. A., St. Marys, W. Va. Welding-tool. No. 940,903; Nov. 23; Sp. p. 5439; Gaz. vol. 148; p. 921.
- Spurling, S., Evanston, Ill. Furnace. No. 931,969; Aug. 24; Sp. p. 4987; Gaz. vol. 145; p. 854.
- Sparr, B. F., New York, assignor of one-fourth to M. A. Gordon, Brooklyn, N. Y. Gear. No. 937,111; Oct. 19; Sp. p. 3127; Gaz. vol. 147; p. 550.
- Sparrow, A. E., Chicago, Ill. Tube-mill cement-feeder. No. 938,176; Oct. 26; Sp. p. 5398; Gaz. vol. 147; p. 922.
- Sparrow, J. C., Cleveland, Ohio. Vault-door. No. 914,681; Mar. 9; Sp. p. 2166; Gaz. vol. 140; p. 363.
- Sparrow, J. W. (See Perdew, C. M., assignor.)
- Sparrow, W. K., South Nyack, N. Y. Alarm for signal-lamps. No. 912,433; Feb. 16; Sp. p. 2905; Gaz. vol. 139; p. 527.
- Spaulding, E. F., Brooklyn, N. Y. Coin-controlled vending-machine. No. 935,824; Oct. 5; Sp. p. 481; Gaz. vol. 147; p. 69.
- Spaulding, E. F., Brooklyn, N. Y. Coin-controlled vending-machine. No. 939,563; Nov. 9; Sp. p. 2461; Gaz. vol. 148; p. 408.
- Spaulding, E. N. and R. E., Suffield, Conn. Crossover for concrete girder-frames. No. 929,890; Aug. 3; Sp. p. 578; Gaz. vol. 145; p. 91.
- Spaulding, I., *et al.* (See King, J. A., assignor.)
- Spaulding, I. B., South Royalton, Vt. Concrete chimney. No. 915,123; Mar. 16; Sp. p. 3041; Gaz. vol. 140; p. 536.
- Spaulding, L. J., Painesville, Ohio. Anticreeping device for railroad-rails. No. 917,177; Apr. 6; Sp. p. 436; Gaz. vol. 141; p. 76.
- Spaulding, R. E. (See Spaulding, E. N. and R. E.)
- Spayd, F. M. (See Spayd, W. H. and F. M.)
- Spayd, F. M., Manistee, Mich. Attachment for hand-saw machines. No. 931,894; Aug. 24; Sp. p. 4798; Gaz. vol. 145; p. 828.

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- Speakman, W. A., Wilmington, Del. Faucet attachment. No. 918,788; Apr. 20; Sp. p. 3786; Gaz. vol. 141; p. 672.
- Speakman, W. A., Brandywine Hundred, Del. Lavatory supply-valve. No. 931,512; Aug. 17; Sp. p. 3976; Gaz. vol. 145; p. 685.
- Spear, E. D., Boston, Mass. Propeller. No. 909,246; Jan. 12; Sp. p. 1669; Gaz. vol. 138; p. 301.
- Spear, F. D., Brooklyn, N. Y. Lens-carrier for lanterns. No. 939,754; Nov. 9; Sp. p. 2882; Gaz. vol. 148; p. 475.
- Spear, G. T., Lakeland, Fla. Crib attachment for beds. No. 918,789; Apr. 20; Sp. p. 3787; Gaz. vol. 141; p. 672.
- Spear, J. R., Winnipeg, Manitoba, Canada. Machine for manufacturing plaster-boards. No. 928,078; July 13; Sp. p. 2852; Gaz. vol. 144; p. 486.
- Spear, L. Y., Quincy, Mass. Submarine boat. No. 922,056; May 18; Sp. p. 4044; Gaz. vol. 142; p. 707.
- Spears, F. E., Pell City, Ala. Bundle-tying device. No. 910,597; Jan. 26; Sp. p. 4458; Gaz. vol. 138; p. 813.
- Specht, H. C., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Winding for dynamo-electric machines. No. 931,156; Aug. 17; Sp. p. 3238; Gaz. vol. 145; p. 565.
- Specht, J. C., Los Angeles, Cal. Fireproof window construction. No. 918,213; Apr. 13; Sp. p. 2546; Gaz. vol. 141; p. 454.
- Specialty Manufacturing Company. (See Lautner, W. C., assignor.)
- Speck, C. E., St. Marys, Ohio. Horse-whipping device. No. 920,204; May 4; Sp. p. 230; Gaz. vol. 142; p. 36.
- Speck, C. E., and F. W. Henschen, St. Marys, Ohio. Hair-comb. No. 914,984; Mar. 9; Sp. p. 2744; Gaz. vol. 140; p. 462.
- Speck, C. E., and F. W. Henschen, St. Marys, Ohio. Bicycle-pump. No. 916,211; Mar. 23; Sp. p. 5193; Gaz. vol. 140; p. 920.
- Speckenbach, O., assignor of one-half to A. Siegrist, New York, N. Y. Passenger-controlled register for street-cars. No. 941,108; Nov. 23; Sp. p. 5870; Gaz. vol. 148; p. 990.
- Speckter, H., Griesheim, assignor to Chemische Fabrik Griesheim Electron, Frankfurt-on-the-Main, Germany. Electrode. No. 931,513; Aug. 17; Sp. p. 3978; Gaz. vol. 145; p. 686.
- Speechly, F., *et al.* (See Anderson, T. E., assignor.)
- Speed, J. B., and A. E. Wright, Berkeley, Cal. Liquid-meter. No. 918,097; Apr. 13; Sp. p. 2310; Gaz. vol. 141; p. 415.
- Speed, J. B., and A. E. Wright, Berkeley, Cal. Liquid-meter. No. 935,129; Sept. 28; Sp. p. 4346; Gaz. vol. 146; p. 775.
- Speer, C. H. (See Carr, W. M., assignor.)
- Speer, C. H. (See Carr and Speer.)
- Speer, E. D., New York, N. Y. Armored conductor. No. 930,896; Aug. 10; Sp. p. 2629; Gaz. vol. 145; p. 450.
- Speer, F. H., Cornelia, Ga. Egg-beater. No. 926,362; June 29; Sp. p. 6860; Gaz. vol. 143; p. 1206.
- Speer, G. F., Fort Worth, Tex. Valve. No. 925,729; June 22; Sp. p. 5519; Gaz. vol. 143; p. 962.
- Speer, H. N., New York, N. Y. Conduit for electric wires. No. 928,285; July 20; Sp. p. 3322; Gaz. vol. 144; p. 587.
- Speer, M. (See King, M. M., assignor.)
- Speer, N. T. (See Shy, Speer, and Shy.)
- Speer, N. T., assignor of one-half to M. Frankle, New Madrid, Mo. Cotton-chopper. No. 942,294; Dec. 7; Sp. p. 567; Gaz. vol. 149; p. 90.
- Speer, R. G., assignor to S. B. Speer, St. Louis, Mo. Hot-air heating system. No. 921,019; May 11; Sp. p. 1883; Gaz. vol. 142; p. 333.
- Speer, S., Pittsburg, Pa. Railway-track sweeper. No. 924,114; June 8; Sp. p. 2182; Gaz. vol. 143; p. 364.
- Speer, S., Pittsburg, Pa. Trolley-pole. No. 933,208; Sept. 7; Sp. p. 391; Gaz. vol. 146; p. 62.
- Speer, S. B. (See Speer, R. G., assignor.)
- Speer, V. V. (See Voorhees and Speer.)
- Speers, F. C. (See Hare, J. M., assignor.)
- Speers, F. C., Steubenville, Ohio. Climbing-stirrup. No. 938,905; Nov. 2; Sp. p. 1006; Gaz. vol. 148; p. 158.
- Speice, C. F., Findlay, Ohio. Street-cleaning apparatus. No. 908,620; Jan. 5; Sp. p. 398; Gaz. vol. 138; p. 64.
- Speidel, F., Pforzheim, Germany. Elastic link-bracelet. No. 919,486; Apr. 27; Sp. p. 5441; Gaz. vol. 141; p. 937.
- Speiden, E. C., assignor to International Acheson Graphite Company, Niagara Falls, N. Y. Electric-furnace terminal. No. 935,939; Oct. 5; Sp. p. 725; Gaz. vol. 147; p. 107.
- Speirs, A., New York, N. Y. Attachment for smoking-pipes. No. 916,623; Mar. 30; Sp. p. 6038; Gaz. vol. 140; p. 1082.
- Speirs, A., Westbrook, Me. Cooking utensil. No. 942,111; Dec. 7; Sp. p. 177; Gaz. vol. 149; p. 27.
- Speirs, W. H., and A. Holm, Paterson, N. J. Atmospheric engine. No. 923,086; May 25; Sp. p. 6165; Gaz. vol. 142; p. 1070.
- Speker, A., and G. Schneider, Freeport, Ill. Bushing for bung-holes of beer-kegs. No. 944,384; Dec. 28; Sp. p. 5040; Gaz. vol. 149; p. 887.
- Spellman, C. J., Wauwatosa, assignor of one-half to C. W. Norris, Milwaukee, Wis. Double-acting switch. No. 940,408; Nov. 16; Sp. p. 4379; Gaz. vol. 148; p. 732.
- Spellman, J. M. (See Shaw and Spellman.)
- Spelta, J., Buenos Ayres, Argentina. Treating surfaces. No. 911,171; Feb. 2; Sp. p. 292; Gaz. vol. 139; p. 51.
- Spence, E. J. (See Spence, R. M. and E. J.)
- Spence, F., assignor of one-half to Goodall Worsted Company, Sanford, Me. Counting-machine. No. 927,610; July 13; Sp. p. 1876; Gaz. vol. 144; p. 331.
- Spence, G., assignor to W. J. Gage & Co., Limited, Toronto, Ontario, Canada. Loose-leaf binder. No. 937,191; Oct. 19; Sp. p. 3311; Gaz. vol. 147; p. 576.
- Spence, J. C. (See Norton, Spence, and Cudworth.)
- Spence, R. M. and E. J., Falconer, N. Y. Combined vegetable and pastry cutter. No. 944,700; Dec. 28; Sp. p. 5753; Gaz. vol. 149; p. 996.
- Spencer, A., London, England. Bogie for railway and the like vehicles. No. 914,889; Mar. 9; Sp. p. 2594; Gaz. vol. 140; p. 433.
- Spencer, A. C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Impression or imitation-stitch machine. No. 917,807; Apr. 13; Sp. p. 1692; Gaz. vol. 141; p. 314.
- Spencer, A. C., and E. C. Eckel, Washington, D. C. Hydraulic cement. No. 912,266; Feb. 9; Sp. p. 2523; Gaz. vol. 139; p. 434.
- Spencer, C., Kaw, Okla. Screen-door attachment. No. 942,223; Dec. 7; Sp. p. 421; Gaz. vol. 149; p. 64.
- Spencer, E., West Brunswick, Victoria, Australia. Bullet and projectile. No. 922,638; May 25; Sp. p. 5235; Gaz. vol. 142; p. 926.
- Spencer, F. C. (See Strawn and Spencer.)
- Spencer, G. F. (See Spencer, W. H., assignor.)
- Spencer, G. F. (See Spencer and Carlstedt, assignors.)
- Spencer, G. S., Moodus, assignor of one-half to J. A. Balen, East Haddam, Conn. Outdriveshaft-bearing and stuffing-box for boats. No. 917,676; Apr. 6; Sp. p. 1382; Gaz. vol. 141; p. 244.
- Spencer, H., Ridgesfield Park, N. J. Burglar-alarm. No. 920,681; May 4; Sp. p. 1205; Gaz. vol. 142; p. 194.
- Spencer, I. H., assignor to Organ Power Company, Hartford, Conn. Hydraulic rotary pump. No. 917,971; Apr. 13; Sp. p. 2039; Gaz. vol. 141; p. 370.
- Spencer, J. B., Spokane, Wash. Wheeled toy. No. 922,639; May 25; Sp. p. 5236; Gaz. vol. 142; p. 926.
- Spencer, J. M., Oakley, assignor to E. C. Ewen, Saginaw, Mich. Combined door stop and holder. No. 921,020; May 11; Sp. p. 1885; Gaz. vol. 142; p. 334.
- Spencer, J. R., Bartow, Fla. Baby-auto. No. 942,679; Dec. 7; Sp. p. 1341; Gaz. vol. 149; p. 220.
- Spencer, L. B., Ogden, Utah. Selective mechanism. No. 929,043; July 27; Sp. p. 4536; Gaz. vol. 144; p. 865.
- Spencer, R. M., Edwall, Wash. Spring-tire. No. 940,904; Nov. 23; Sp. p. 5440; Gaz. vol. 143; p. 922.
- Spencer, T., Philadelphia, Pa. Regulator for electric currents. No. 922,057; May 18; Sp. p. 4045; Gaz. vol. 142; p. 707.
- Spencer, T., Philadelphia, Pa. Electric-arc lamp. No. 927,010; July 6; Sp. p. 629; Gaz. vol. 144; p. 103.
- Spencer, W. H., Brooklyn, N. Y., assignor to G. F. Spencer, Newark, N. J. Electrolier and reflector therefor. No. 924,289; June 8; Sp. p. 2607; Gaz. vol. 143; p. 425.
- Spencer, W. H., Brooklyn, N. Y., assignor to G. F. Spencer, Newark, N. J. Combined support and socket for reflectors. No. 924,698; June 15; Sp. p. 3449; Gaz. vol. 143; p. 593.
- Spencer, W. H., Brooklyn, N. Y., assignor to G. F. Spencer, Newark, N. J. Supporting-socket for reflectors. No. 927,818; July 13; Sp. p. 2322; Gaz. vol. 144; p. 400.
- Spencer, W. H., Brooklyn, N. Y., assignor to G. F. Spencer, Newark, N. J. Reflector and lamp-receiving socket therefor. No. 929,336; July 27; Sp. p. 5500; Gaz. vol. 144; p. 964.
- Spencer, W. H., and J. A. Carlstedt, Brooklyn, N. Y., assignors to G. F. Spencer, Newark, N. J. Reflector. No. 927,011; July 6; Sp. p. 632; Gaz. vol. 144; p. 103.
- Spencer, W. H., Methuen, and A. Hurst, assignors to W. L. Barrell, Lawrence, Mass. Thread-parting mechanism for looms. No. 943,957; Dec. 21; Sp. p. 4135; Gaz. vol. 149; p. 717.
- Spencer, W. J., Waterbury, Conn. Power air-pump for automobiles. No. 924,115; June 8; Sp. p. 2184; Gaz. vol. 143; p. 365.
- Spencer Wire Company. (See Sargent, H. D., assignor.)
- Spenko, J., Collinwood, Ohio. Vegetable-cutter. No. 940,830; Nov. 23; Sp. p. 5297; Gaz. vol. 148; p. 898.
- Spenner, F., Stayton, Ore. Money-holder for mail-boxes. No. 919,083; Apr. 20; Sp. p. 4395; Gaz. vol. 141; p. 768.
- Spensley, D., Aurora, Iowa. Riding attachment for agricultural implements. No. 918,386; Apr. 13; Sp. p. 2888; Gaz. vol. 141; p. 510.
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- Sperling, I. (See Hornung and Sperling.)



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- Sperry, A. D., Butte, Mont. Type-cleaner for type-writing machines. No. 920,205; May 4; Sp. p. 231; Gaz. vol. 142; p. 36.
- Sperry, D. R. (See Klein and Sperry.)
- Sperry, E. P., Oak Park, Ill. Window operating and locking mechanism. No. 929,801; Aug. 3; Sp. p. 368; Gaz. vol. 145; p. 61.
- Sperry, E. P., Oak Park, Ill. Feeding mechanism for fertilizer-spreaders. No. 934,471; Sept. 21; Sp. p. 3027; Gaz. vol. 146; p. 528.
- Sperry, J. F., Kaw, Okla., and J. H. Eby, Carrington, N. D. Power apparatus. No. 911,625; Feb. 9; Sp. p. 1188; Gaz. vol. 139; p. 225.
- Sperry, W., Owatonna, Minn. Grain-separator. No. 929,044; July 27; Sp. p. 4842; Gaz. vol. 144; p. 866.
- Spicer, A. J., Franklin, Ind. Apparatus for forming wire hoops. No. 931,970; Aug. 24; Sp. p. 4988; Gaz. vol. 145; p. 854.
- Spicer Brothers. (See Warne, A. T., assignor.)
- Spicer, C. W., Plainfield, N. J. Universal joint. No. 919,651; Apr. 27; Sp. p. 5777; Gaz. vol. 141; p. 993.
- Spicer, V. K. (See Schreuder and Spicer.)
- Spiegel, A. S., Chicago, Ill. Advertising apparatus. No. 911,561; Feb. 2; Sp. p. 1031; Gaz. vol. 139; p. 178.
- Spiegel, A. S., Chicago, Ill. Picture post-card or display device. No. 944,385; Dec. 28; Sp. p. 5041; Gaz. vol. 149; p. 887.
- Spiegel, A. S., Chicago, Ill., assignor to American Telephone and Telegraph Company. Locking and signaling system for telephone-registers. No. 938,026; Oct. 26; Sp. p. 5061; Gaz. vol. 147; p. 870.
- Spiegel, J. F., assignor of one-fourth to F. C. Williams and one-fourth to E. A. Lacy, Galetton, Pa. Air-brake retaining-valve. No. 939,928; Nov. 9; Sp. p. 3255; Gaz. vol. 148; p. 536.
- Spiegel, F. M., New York, N. Y. Landing net-frame. No. 941,961; Nov. 30; Sp. p. 7707; Gaz. vol. 148; p. 1299.
- Spielman, A., and A. P. Post, Philadelphia, Pa. Combined shoe tree and stretcher. No. 927,033; July 6; Sp. p. 814; Gaz. vol. 144; p. 130.
- Spies, A., Cleve, Germany. Manure-drill. No. 938,177; Oct. 26; Sp. p. 5400; Gaz. vol. 147; p. 923.
- Spikes, R. B., assignor to Brewery and Distillery Equipment Corporation, Washington, D. C. Beer-tapper. No. 928,813; July 20; Sp. p. 4363; Gaz. vol. 144; p. 760.
- Spiller, C. F. (See Ethridge, F. N., assignor.)
- Spillman, M., (now by marriage M. Kaless), Portland, Oreg. Game-board. No. 925,142; June 15; Sp. p. 4360; Gaz. vol. 143; p. 744.
- Spillman, W. H., and E. M. Barnes, St. Joseph, Mich. Wagon-pole. No. 928,708; July 20; Sp. p. 4167; Gaz. vol. 144; p. 726.
- Spilman, C. J. (See Harding and Spilman.)
- Spilman, P., *et al.* (See Sletto, O. K., assignor.)
- Spinasse, A. E., assignor of one-fourth to H. C. Wood, Mount Vernon, Ohio. Glass-drawing process. No. 915,899; Mar. 23; Sp. p. 4619; Gaz. vol. 140; p. 819.
- Spinasse, A. E., assignor of one-fourth to H. C. Wood, Mount Vernon, Ohio. Glass-working apparatus. No. 921,747; May 18; Sp. p. 3399; Gaz. vol. 142; p. 605.
- Spinello, M., Kansas City, Mo. Permutation-lock. No. 926,221; June 29; Sp. p. 6584; Gaz. vol. 143; p. 1163.
- Spinka, J. (See Sistek and Spinka.)
- Spinner, E. (See Strobel, J. J., assignor.)
- Spinney, B. A., Massena, Iowa. Combined hay rake and loader. No. 927,182; July 6; Sp. p. 1000; Gaz. vol. 144; p. 162.
- Spirella Company. (See Laass, J. J., assignor.)
- Spiro, C., New York, N. Y. Clip-file. No. 913,315; Feb. 23; Sp. p. 4730; Gaz. vol. 139; p. 848.
- Spiro, C., New York, N. Y. Paper-file. No. 913,316; Feb. 23; Sp. p. 4733; Gaz. vol. 139; p. 848.
- Spiro, C., New York, N. Y. Type-bar movement. No. 918,790; Apr. 20; Sp. p. 3789; Gaz. vol. 141; p. 672.
- Spiro, C., New York, N. Y. Ribbon-shifting mechanism. No. 935,280; Sept. 28; Sp. p. 4633; Gaz. vol. 146; p. 823.
- Spitz, H., and L. Heffner, New York, N. Y. Window-cleaner. No. 917,178; Apr. 6; Sp. p. 438; Gaz. vol. 141; p. 77.
- Spitzer, F. (See Goldschmidt and Spitzer.)
- Spivey, T. S. (See Keller, J. R., assignor.)
- Spivey, T. S., assignor to Victor Safe & Lock Company, Cincinnati, Ohio. Safe. No. 908,511; Jan. 5; Sp. p. 157; Gaz. vol. 138; p. 29.
- Spittdorf, C. F. (See Gertler, S. E., assignor.)
- Spittdorf, C. F. (See Hubert, T., assignor.)
- Spofford, J. G., Hopedale, Mass. Protractor. No. 926,615; June 29; Sp. p. 7318; Gaz. vol. 143; p. 1291.
- Spoljar, J., Cleveland, Ohio. Folding desk. No. 924,395; June 8; Sp. p. 2826; Gaz. vol. 143; p. 460.
- Spoljar, J., Cleveland, Ohio. Folding chair. No. 924,396; June 8; Sp. p. 2827; Gaz. vol. 143; p. 460.
- Sponsel, C. W. (See Johnson, G. H., assignor.)
- Sponseller, E. (See Rickman, M. E., assignor.)
- Sponseller, J. H. (See Russell, F. C., assignor.)
- Spooner, C. B. (See Reed and Spooner.)
- Spotz, G. E., *et al.* (See Hoffman, E. J., assignor.)
- Spracklen, D. D., Deep River, Iowa. Weight-motor. No. 935,422; Sept. 28; Sp. p. 4915; Gaz. vol. 146; p. 868.
- Sprado, C. G., assignor to Allis-Chalmers Company, Milwaukee, Wis. Gas-engine. No. 923,591; June 1; Sp. p. 1077; Gaz. vol. 143; p. 164.
- Sprado, C. G., assignor to Allis-Chalmers Company, Milwaukee, Wis. Tripping device. No. 923,592; June 1; Sp. p. 1080; Gaz. vol. 143; p. 164.
- Sprado, C. G., assignor to Allis-Chalmers Company, Milwaukee, Wis. Crane. No. 923,593; June 1; Sp. p. 1081; Gaz. vol. 143; p. 165.
- Sprado, C. G., assignor to Allis-Chalmers Company, Milwaukee, Wis. Gas-engine. No. 923,594; June 1; Sp. p. 1083; Gaz. vol. 143; p. 165.
- Sprado, C. G., assignor to Allis-Chalmers Company, Milwaukee, Wis. Rod connection. No. 923,724; June 1; Sp. p. 1339; Gaz. vol. 143; p. 208.
- Sprague, A. W., La Grange, assignor to American Steel & Wire Company, Chicago, Ill. Fence-post. No. 924,505; June 8; Sp. p. 3030; Gaz. vol. 143; p. 495.
- Sprague, A. W., La Grange, and T. E. Mulroyan, De Kalb, assignors to American Steel & Wire Company, Chicago, Ill. Gate. No. 933,594; Sept. 7; Sp. p. 1294; Gaz. vol. 146; p. 192.
- Sprague, C. B., Salt Lake City, Utah, assignor to United States Smelting, Refining & Mining Company. Treating corrosive gaseous fumes or smoke. No. 931,515; Aug. 17; Sp. p. 3980; Gaz. vol. 145; p. 686.
- Sprague, C. E. (See Files, O. F., assignor.)
- Sprague, C. E., Anson, Me. Adjustable shade-roller bracket. No. 931,514; Aug. 17; Sp. p. 3979; Gaz. vol. 145; p. 686.
- Sprague, C. E., and R. M. Elliott, Chattaroy, Wash. Attachment for drilling-machines. No. 924,699; June 15; Sp. p. 3453; Gaz. vol. 143; p. 594.
- Sprague, C. W., Philadelphia, Pa. Shears. No. 909,470; Jan. 12; Sp. p. 2095; Gaz. vol. 138; p. 373.
- Sprague, C. W., Philadelphia, Pa. Tension device for shears. No. 913,575; Feb. 23; Sp. p. 5282; Gaz. vol. 139; p. 935.
- Sprague, D. A., Poland, N. Y. Combined churn and butter-worker. No. 937,725; Oct. 19; Sp. p. 4428; Gaz. vol. 147; p. 751.
- Sprague Electric Company. (See Libby, S. H., assignor.)
- Sprague, F. H., Orange, Mass. Trousers. No. 918,924; Apr. 20; Sp. p. 4096; Gaz. vol. 141; p. 718.
- Sprague, F. H., Orange, Mass. Trousers. No. 937,883; Oct. 26; Sp. p. 4763; Gaz. vol. 147; p. 823.
- Sprague, F. H., Orange, Mass. Trousers. No. 938,347; Oct. 26; Sp. p. 5762; Gaz. vol. 147; p. 980.
- Sprague, F. S., Somerville, Mass. Couch-bed. No. 915,497; Mar. 16; Sp. p. 3785; Gaz. vol. 140; p. 658.
- Sprague, J., assignor of one-half to C. A. Minard, Aurora, Ill. Skirt-supporter and waist-holder. No. 924,011; June 8; Sp. p. 2005; Gaz. vol. 143; p. 332.
- Sprague, J. H., Norwalk, Ohio. Wind-shield. No. 912,911; Feb. 16; Sp. p. 3901; Gaz. vol. 139; p. 687.
- Sprague, J. H., Norwalk, Ohio. Wind-shield. No. 925,240; June 15; Sp. p. 4547; Gaz. vol. 143; p. 777.
- Sprague, J. H., Norwalk, Ohio. Wind-shield. No. 933,496; Sept. 7; Sp. p. 1111; Gaz. vol. 146; p. 159.
- Sprague, N. C., assignor to W. H. Stevens, Minneapolis, Minn. Envelop. No. 915,124; Mar. 16; Sp. p. 3043; Gaz. vol. 140; p. 537.
- Sprague, W. S., and G. Hookham, Birmingham, England. Counting-train. No. 922,537; May 25; Sp. p. 5030; Gaz. vol. 142; p. 893.
- Spunkle, J. C. F., Fort Wayne, Ind. Fire-escape apparatus. No. 929,721; Aug. 3; Sp. p. 176; Gaz. vol. 145; p. 31.
- Spratlin, B. B. and J. W., Hull, Ga. Signaling attachment for grain-mills. No. 922,821; May 25; Sp. p. 5621; Gaz. vol. 142; p. 985.
- Spratlin, J. W. (See Spratlin, B. B. and J. W.)
- Sprecher, O., Milwaukee, Wis. Valve-casing clamp. No. 910,024; Jan. 19; Sp. p. 8207; Gaz. vol. 138; p. 592.
- Sprecher, O., Milwaukee, Wis. Gas-pressure regulator. No. 942,112; Dec. 7; Sp. p. 178; Gaz. vol. 149; p. 27.
- Spreckels, J. D. (See French and Frederick, assignors.)
- Sprenger, E., Goldach, Switzerland. Block-press. No. 923,595; June 1; Sp. p. 1086; Gaz. vol. 143; p. 166.
- Sprenger, W., Lynn, Mass., assignor to General Electric Company. Electric heating device. No. 925,050; June 15; Sp. p. 4190; Gaz. vol. 143; p. 713.
- Spring, C., Ithaca, N. Y. Measuring instrument. No. 917,179; Apr. 6; Sp. p. 440; Gaz. vol. 141; p. 77.
- Springer, A. (See Fritsch and Springer.)
- Springer, D. P., Waverly, N. Y. Draft-hook. No. 935,423; Sept. 28; Sp. p. 4916; Gaz. vol. 146; p. 869.
- Springer, J., San Francisco, Cal. Actuating mechanism for printing-press throw-offs. No. 919,084; Apr. 20; Sp. p. 4396; Gaz. vol. 141; p. 768.
- Springer, R. W., U. S. Army. Shirt-front. No. 944,292; Dec. 28; Sp. p. 4837; Gaz. vol. 149; p. 854.

*Alphabetical list of patentees—Continued.*

- Springfield Printing & Binding Company. (See Kandle, M. M., assignor.)  
 Springfield Seed Company. (See Ricketts, R. R., assignor.)  
 Sprink, I. W. (See Brown and Sprink.)  
 Sprinkle, C. C. Marion, assignor of one-half to M. A. Stair, La Fontaine, Ind. Shoe-fastener. No. 908,704; Jan. 5; Sp. p. 587; Gaz. vol. 138; p. 91.  
 Sprinkle, C. C., Marion, assignor of one-half to M. A. Stair, La Fontaine, Ind. Self-heating sad-iron. No. 908,705; Jan. 5; Sp. p. 588; Gaz. vol. 138; p. 91.  
 Sprinkle, C. C., Marion, assignor of one-half to M. A. Stair, La Fontaine, Ind. Drinking-cup. No. 908,706; Jan. 5; Sp. p. 589; Gaz. vol. 138; p. 91.  
 Sprint, J. W., Boyce, assignor of one-half to J. A. Dewar, Millwood, Va. Fender. No. 914,985; Mar. 9; Sp. p. 2745; Gaz. vol. 140; p. 463.  
 Sprong, S. D., and W. E. McCoy, New York, N. Y. Voltage-regulator. No. 921,299; May 11; Sp. p. 2461; Gaz. vol. 142; p. 428.  
 Spröngerts, E., assignor to Vereinigte Chininfabriken Zimmer & Co., G. m. b. H., Frankfurt-on-the-Main, Germany. Santalol esters. No. 922,538; May 25; Sp. p. 5031; Gaz. vol. 142; p. 893.  
 Sprowles, F. W., and J. C. Lorgion, Detroit, Mich. Paper-feeding machine. No. 930,702; Aug. 10; Sp. p. 2218; Gaz. vol. 145; p. 386.  
 Sprung, G., Vancouver, British Columbia, Canada. Road-truck. No. 933,794; Sept. 14; Sp. p. 1693; Gaz. vol. 146; p. 281.  
 Spry, I. E., Avilla, Mo. Plate-lifter. No. 923,906; June 8; Sp. p. 1802; Gaz. vol. 143; p. 300.  
 Spry, O. L., Des Moines, Iowa. Trolley-pole fastening. No. 909,247; Jan. 12; Sp. p. 1670; Gaz. vol. 138; p. 301.  
 Spurlock, R., Valley View, Ky. Railway-gate. No. 924,290; June 8; Sp. p. 2612; Gaz. vol. 143; p. 425.  
 Spurrier, J. W., Beaumont, Tex. Oil-burning and steam-generating apparatus. No. 943,481; Dec. 14; Sp. p. 3107; Gaz. vol. 149; p. 523.  
 Sprechalski, F. A. (See McDermott, W. E., assignor.)  
 Squair, J., Bulawayo, Rhodesia. Knife-blade of reaping, mowing, and like machines. No. 922,058; May 18; Sp. p. 4047; Gaz. vol. 142; p. 708.  
 Square Deal Machine Co. (See Asbury, W., assignor.)  
 Squier, A. H., Philadelphia, Pa. Air-suction cleaning apparatus. No. 930,628; Aug. 10; Sp. p. 2072; Gaz. vol. 145; p. 362.  
 Squires, C. E., Cleveland, Ohio. Fluid-pressure-cushioning device. No. 912,502; Feb. 16; Sp. p. 3044; Gaz. vol. 139; p. 550.  
 Squires, C. E., Cleveland, Ohio. So-called reducing-valve. No. 912,503; Feb. 16; Sp. p. 3045; Gaz. vol. 139; p. 550.  
 Squires, C. W., Beverly, Mass. Switch-operating mechanism for railways. No. 936,381; Oct. 12; Sp. p. 1633; Gaz. vol. 147; p. 277.  
 Squires, H. L., Morgan City, La. Filing-cabinet. No. 918,214; Apr. 13; Sp. p. 2550; Gaz. vol. 141; p. 454.  
 Squires, J. P. (See Dowling and Squires.)  
 Squires, W. N., Princeton, Mo. Woven-wire-fence clamp. No. 931,516; Aug. 17; Sp. p. 3983; Gaz. vol. 145; p. 687.  
 Squyars, A. E., Maxton, N. C. Switch. No. 919,261; Apr. 20; Sp. p. 4919; Gaz. vol. 141; p. 825.  
 Squyars, A. E., assignor of one-half to M. G. McKay, Laurinburg, N. C. Automatic air-coupling. No. 929,511; July 27; Sp. p. 5805; Gaz. vol. 144; p. 1019.  
 St. Aubin, E., Ganer township, Kankakee county, Ill. Planter. No. 914,890; Mar. 9; Sp. p. 2597; Gaz. vol. 140; p. 433.  
 St. Clair, J. C., Butte, Mont. Automatic fire-kindler. No. 919,085; Apr. 20; Sp. p. 4397; Gaz. vol. 141; p. 768.  
 St. Clair, M., Thorndale, Ontario, Canada. Internal-combustion turbine. No. 933,353; Sept. 7; Sp. p. 719; Gaz. vol. 146; p. 112.  
 St. Clair, M., Bradner, Ohio. Washing-machine. No. 936,178; Oct. 5; Sp. p. 1211; Gaz. vol. 147; p. 183.  
 St. Claire, M. M., *et al.* (See Smith, E. A., assignor.)  
 St. Germain, J. G., Bradley, Ill. Portable rotary drill. No. 926,832; July 6; Sp. p. 267; Gaz. vol. 144; p. 43.  
 St. Germain, O., *et al.* (See Kenney, F. E., assignor.)  
 St. Hoor, S. S., assignor of one-half to M. H. and W. S. Clagett, Kansas City, Mo. Heating and illuminating device. No. 912,068; Feb. 23; Sp. p. 4219; Gaz. vol. 139; p. 764.  
 St. John, J. M., Paducah, Ky., assignor to W. P. Miedreich, Evansville, Ind. Pipe-coupling. No. 909,830; Jan. 12; Sp. p. 2803; Gaz. vol. 138; p. 494.  
 St. John, J. O., St. Louis, Mo. Fire-club building-block. No. 942,850; Dec. 7; Sp. p. 1706; Gaz. vol. 149; p. 276.  
 St. John, M. C., Chicago, Ill. Metallic tread for pneumatic tires. No. 909,475; Jan. 12; Sp. p. 2109; Gaz. vol. 138; p. 374.  
 St. Joseph Iron Works. (See Brown, N. E., assignor.)  
 St. Joseph Iron Works. (See Eklund, J., assignor.)  
 St. Louis Car Company. (See Miller, W. S., assignor.)  
 St. Louis Car Company. (See Robinson, E. T., assignor.)  
 St. Louis Car Company. (See Witte, H., assignor.)  
 St. Louis Car Company. (See Witte and Schuermann, assignors.)  
 St. Louis Delinter Manufacturing Company. (See Nahm and O'Brien, assignors.)  
 St. Louis Screw Company. (See Miller, E. J., assignor.)  
 St. Louis Tin & Sheet Metal Working Company. (See Piepho, C. A., assignor.)  
 St. Mary, J. N., Caledonia, Minn. Power-transmitting mechanism. No. 916,624; Mar. 30; Sp. p. 6040; Gaz. vol. 140; p. 1083.  
 St. Peter, J. C. (See Marcou and St. Peter.)  
 Staadt, H., assignor of one-half to L. Leaf, Findlay, Ohio. Metallic rail-fastening. No. 930,322; Aug. 3; Sp. p. 1408; Gaz. vol. 145; p. 234.  
 Staal, S. E., Maplebay, assignor of one-half to K. I. Haugen, Garfield, Minn. Mower attachment. No. 922,970; May 25; Sp. p. 5925; Gaz. vol. 142; p. 1033.  
 Staats, J., Washington, D. C. Railway-tie. No. 928,479; July 20; Sp. p. 3703; Gaz. vol. 144; p. 651.  
 Stables, G., Philadelphia, Pa. Vehicle-brake. No. 938,720; Nov. 2; Sp. p. 589; Gaz. vol. 148; p. 92.  
 Stacey, J. E. (See McKernan, F. M., assignor.)  
 Stack, E. S., Somerville, Mass. Ball-cock. No. 935,281; Sept. 28; Sp. p. 4637; Gaz. vol. 146; p. 824.  
 Stacks, C. T., Birmingham, Ala. Railway-switch. No. 920,206; May 4; Sp. p. 233; Gaz. vol. 142; p. 37.  
 Stacks, H. R., assignor to Geo. V. Cresson Co., Philadelphia, Pa. Friction-clutch. No. 924,397; June 8; Sp. p. 2827; Gaz. vol. 143; p. 460.  
 Stacy, G., and G. A. Julius, Perth, Western Australia, Australia. Voting-machine. No. 939,755; Nov. 9; Sp. p. 2884; Gaz. vol. 148; p. 476.  
 Stacy, G., and G. A. Julius, Perth, Western Australia, Australia. Voting-machine. No. 939,929; Nov. 9; Sp. p. 3258; Gaz. vol. 148; p. 537.  
 Stadermann, A. L., Terre Haute, Ind. Distributing insulator-bracket. No. 926,906; July 6; Sp. p. 417; Gaz. vol. 144; p. 68.  
 Staeger, A., Baltimore, Md. Hand-bag. No. 909,248; Jan. 12; Sp. p. 1671; Gaz. vol. 138; p. 301.  
 Staff, O., Lathrop, Mont. Rotary engine. No. 921,478; May 11; Sp. p. 2848; Gaz. vol. 142; p. 490.  
 Staff, W. A., Chicago, Ill. Fire-extinguisher. No. 936,487; Oct. 12; Sp. p. 1884; Gaz. vol. 147; p. 311.  
 Stafford, A. E., assignor to Draper Company, Hopedale, Mass. Loom. No. 911,626; Feb. 9; Sp. p. 1192; Gaz. vol. 139; p. 226.  
 Stafford, B. E. D., assignor to Flannery Bolt Company, Pittsburg, Pa. Stay-bolt for boilers. No. 909,956; Jan. 19; Sp. p. 3086; Gaz. vol. 138; p. 570.  
 Stafford, C., Elizabeth, N. J., assignor to Singer Manufacturing Company. Sewing-machine attachment. No. 936,112; Oct. 19; Sp. p. 3129; Gaz. vol. 147; p. 550.  
 Stafford Company. (See Jackson, S. S., assignor.)  
 Stafford, H. R., Schenectady, assignor to American Locomotive Company, New York, N. Y. Locomotive. No. 934,944; Sept. 21; Sp. p. 3959; Gaz. vol. 146; p. 687.  
 Stafford, J. (See Scheible, A., assignor.)  
 Stafford, J. M., Petersburg, Ind. Focusing-light producer. No. 930,242; Aug. 3; Sp. p. 1273; Gaz. vol. 145; p. 210.  
 Stafford, J. T., New York, N. Y. Propelling mechanism for boats. No. 912,198; Feb. 9; Sp. p. 2386; Gaz. vol. 139; p. 411.  
 Stage, C. H., Philadelphia, Pa. Steam cooking utensil. No. 912,912; Feb. 16; Sp. p. 3903; Gaz. vol. 139; p. 688.  
 Staggs, F. E., Alvord, Tex. Churn. No. 914,986; Mar. 9; Sp. p. 2746; Gaz. vol. 140; p. 463.  
 Staggs, T. H. (See Doty, Burner, and Staggs.)  
 Staggs, T. H., assignor to Kilbourne and Jacobs Manufacturing Company, Columbus, Ohio. Dump-car. No. 921,300; May 11; Sp. p. 2463; Gaz. vol. 142; p. 429.  
 Staggs, T. H., and J. Anthony, assignors to Kilbourne and Jacobs Manufacturing Company, Columbus, Ohio. Wheeled scraper. No. 910,025; Jan. 19; Sp. p. 3208; Gaz. vol. 138; p. 592.  
 Staggs, E. E., Hachita, N. Mex. Ter. Automatic switch-stand. No. 930,897; Aug. 10; Sp. p. 2631; Gaz. vol. 145; p. 451.  
 Staggs, J., Springfield, Mo., L. P. Tucker, Stringtown, Okla., and V. A. Wood, Columbia, Mo. Legging. No. 929,992; Aug. 3; Sp. p. 786; Gaz. vol. 145; p. 125.  
 Stahl, A. B. (See Gloekler and Stahl.)  
 Stahl, E. (See Nodine, L. R., assignor.)  
 Stahl, F. A., New York, N. Y. Syringe. No. 933,398; Sept. 7; Sp. p. 820; Gaz. vol. 146; p. 127.  
 Stahl, G. E., Jersey City, N. J. Bottle-cap. No. 933,795; Sept. 14; Sp. p. 1694; Gaz. vol. 146; p. 281.  
 Stahl, L. L., Mitchell, S. D. Cream-separator-core cleaner. No. 932,646; Aug. 31; Sp. p. 6398; Gaz. vol. 145; p. 1104.  
 Stahl, S. S., Connellsville, Pa. Boiler-stand. No. 925,849; June 22; Sp. p. 5798; Gaz. vol. 143; p. 1004.  
 Stähli, F., Winterthur, Switzerland. Lubricating-pump. No. 909,471; Jan. 12; Sp. p. 2097; Gaz. vol. 138; p. 373.  
 Stahr, W. J., Nescopeck, Pa. Car-brake. No. 940,373; Nov. 16; Sp. p. 4289; Gaz. vol. 148; p. 720.  
 Staib, G., New York, N. Y. Store-service apparatus. No. 936,052; Oct. 5; Sp. p. 961; Gaz. vol. 147; p. 144.



*Alphabetical list of patentees—Continued.*

- Stair, M. A. (See Sprinkle, C. C., assignor.)
- Stairs, V. R., Carleton, Nebr. Gate. No. 936,180; Oct. 5; Sp. p. 1221; Gaz. vol. 147; p. 184.
- Stake, A., Dusseldorf-Oberkassel, Germany. Polishing-machine for moldings. No. 927,695; July 13; Sp. p. 2071; Gaz. vol. 144; p. 359.
- Stalans, R. L., Newburg, Okla. Attachment for plows, harrows, and the like. No. 916,212; Mar. 23; Sp. p. 5194; Gaz. vol. 140; p. 920.
- Stalans, R. L., Newburg, Okla. Cultivator. No. 928,079; July 13; Sp. p. 2853; Gaz. vol. 144; p. 486.
- Staley, B. A., Plainview, Nebr. Card-game apparatus. No. 927,183; July 6; Sp. p. 1002; Gaz. vol. 144; p. 162.
- Staley O. P., Creston, Iowa. Bevel-gage. No. 925,962; June 22; Sp. p. 6018; Gaz. vol. 143; p. 1040.
- Stallord, F. D., Frederick, Okla. Crude-oil burner. No. 941,284; Nov. 23; Sp. p. 6271; Gaz. vol. 148; p. 1049.
- Stallord, F. D., Frederick, Okla. Crude-oil burner. No. 941,285; Nov. 23; Sp. p. 6272; Gaz. vol. 148; p. 1050.
- Stålthane, O. (See Grönwall, Lindblad, and Stålthane.)
- Stalker N. S. Duluth Minn. Wrench. No. 925,522; June 22; Sp. p. 5084; Gaz. vol. 143; p. 895.
- Stall, C. H., Altoona, Pa. Lock-nut. No. 913,174; Feb. 23; Sp. p. 4436; Gaz. vol. 139; p. 800.
- Stall, W. T. (See Dean, C. H., assignor.)
- Stalla, F. (See Turner and Stalla.)
- Stallings, E. A., *et al.* (See Noland, W. H., assignor.)
- Stallings, E. L., assignor of one-half to H. J. Bassler, Columbia, S. C. Connection for water-closets. No. 927,611; July 13; Sp. p. 1878; Gaz. vol. 144; p. 332.
- Stalter, J. B., Pittsford, N. Y. Crib. No. 941,429; Nov. 30; Sp. p. 6599; Gaz. vol. 148; p. 1118.
- Stam, T. R., West Union, Iowa. Trolley-head. No. 939,564; Nov. 9; Sp. p. 2469; Gaz. vol. 148; p. 409.
- Stambaugh, C. C., New York, N. Y. Milk pasteurizer and filter. No. 939,107; Nov. 2; Sp. p. 1390; Gaz. vol. 148; p. 227.
- Stamm, H., Richterswil, Switzerland. Seal-lock. No. 934,229; Sept. 14; Sp. p. 2564; Gaz. vol. 146; p. 424.
- Stamm, L. B., Antioch, Cal. Boot and shoe lasting machine. No. 923,452; June 1; Sp. p. 768; Gaz. vol. 143; p. 113.
- Stamps, N. C., and J. Singer, Los Angeles, Cal. Hydrocarbon-burner. No. 924,012; June 8; Sp. p. 2006; Gaz. vol. 143; p. 332.
- Stan, P., Homestead, Pa. Fire-escape. No. 929,510; July 27; Sp. p. 5803; Gaz. vol. 144; p. 1018.
- Stanage, T. W., assignor of one-half to A. M. Lumley, Porterville, Cal. Railway signaling means. No. 914,611; Mar. 9; Sp. p. 2005; Gaz. vol. 140; p. 342.
- Stanbon, C. P., Lynn, assignor to T. G. Plant, Boston, Mass. Knife-mounting for sole-rounding machines. No. 944,386; Dec. 28; Sp. p. 5043; Gaz. vol. 149; p. 887.
- Stanbro, G. L., and A. D. Wagner, Norfolk, Va. Electromagnetic traction system. No. 940,487; Nov. 16; Sp. p. 4534; Gaz. vol. 148; p. 759.
- Standcliff Well Screen Mfg. Co. (See Wergin, W. L., assignor.)
- Standcliff, E. S., Berkeley, Cal. Vehicle-wheel. No. 927,891; July 13; Sp. p. 2481; Gaz. vol. 144; p. 424.
- Standard Adding Machine Company. (See Hinchman, G. N., assignor.)
- Standard Appliance Company. (See Gray and Stevens, assignors.)
- Standard Assembler Company. (See Cox, P. F., assignor.)
- Standard Button Company. (See Anderson, E. L., assignor.)
- Standard, C., assignor of two-fifths to A. J. Bradau and C. J. Karrer, Detroit, Mich. Non-refillable bottle. No. 910,093; Jan. 19; Sp. p. 3346; Gaz. vol. 138; p. 615.
- Standard Carbonic Company. (See Hoff, J. A., assignor.)
- Standard Carbureter Company. (See Howarth, A.)
- Standard Carrier Company. (See Jensen, A., assignor.)
- Standard Chain Company. (See Hoff, C. L., assignor.)
- Standard Company. (See Newton, C. H., assignor.)
- Standard Company. (See Wiegert, P. G., assignor.)
- Standard Computing Scale Company. (See Buckingham, F. H., assignor.)
- Standard Computing Scale Company. (See Jaenichen, L., assignor.)
- Standard Development Company. (See Bossard, T., assignor.)
- Standard Electric Headlight Company. (See Piper, J. C., assignor.)
- Standard Equipment Company. (See Davidson, R. J., assignor.)
- Standard Fender Company. (See Keizer, M. L., assignor.)
- Standard Harrow Company. (See Camp, G. E., assignor.)
- Standard Horse Nail Company. (See Pierce and Newton, assignors.)
- Standard Light Company. (See Ray, F. A., assignor.)
- Standard Machinery Company. (See Zschech, G. H., assignor.)
- Standard Machines Company. (See Symonds and Brann, assignors.)
- Standard Manufacturing Company. (See Brucker, F., assignor.)
- Standard Metallic Packing Co. (See Badeker, J., assignor.)
- Standard Milk Flour Company. (See Mason and Rochelle, assignors.)
- Standard Oil Company. (See Manbeck, C. B., assignor.)
- Standard Oil Company. (See Robinson, C. I., assignor.)
- Standard Oil Company of New York. (See Paine, F. R., assignor.)
- Standard Optical Company. (See Clark, B. F., assignor.)
- Standard Optical Company. (See Long, E. M., assignor.)
- Standard Optical Company. (See Quimby, C. E., assignor.)
- Standard Plate Glass Company. (See Bickford, W. R., assignor.)
- Standard Pressed Steel Company. (See Hallowell, H. T., assignor.)
- Standard Railway Equipment Company. (See Brown, G. L., assignor.)
- Standard Sanitary Manufacturing Company. (See Carothers, C. A., assignor.)
- Standard Sanitary Manufacturing Company. (See Cosgrove, J. J., assignor.)
- Standard Sanitary Manufacturing Company. (See Dawes, E. L., assignor.)
- Standard Sanitary Manufacturing Company. (See Dawes and Reed, assignors.)
- Standard Sewing Machine Company. (See Mack, W. A., assignor.)
- Standard Sewing Machine Company. (See Mills, D., assignor.)
- Standard Steel Car Company. (See Christianson, A., assignor.)
- Standard Steel Car Company. (See Zimmer, A. E., assignor.)
- Standard Steel Tie Company. (See Côté, G. M., assignor.)
- Standard Steel Works. (See Norris, G. L., assignor.)
- Standard Steel Works Company. (See Andrews, A. K., assignor.)
- Standard Stopper Company. (See Hidden, C. P., assignor.)
- Standard Stopper Company. (See Mueller and Gwinn, assignors.)
- Standard Stopper Company. (See Shriner, R. L., assignor.)
- Standard Tool Company. (See Ryder, S. G., assignor.)
- Standard Trimmer Company. (See Ridgely, C. T., assignor.)
- Standard Underground Cable Company. (See Baldwin, C. C., assignor.)
- Standard Underground Cable Company. (See Barbour, C., assignor.)
- Standard Underground Cable Company. (See Davis, C. W., assignor.)
- Standard Varnish Works. (See Beausejour, R. A., assignor.)
- Standard Varnish Works. (See Beausejour and Drubel, assignors.)
- Standard Wick & Burner Co. (See Curtis, F. A., assignor.)
- Standeford, R. P., Colorado City, Colo. Hook. No. 918,791; Apr. 20; Sp. p. 3791; Gaz. vol. 141; p. 673.
- Standing, A. W., St. Louis, Mo. Railway-tariff. No. 932,827; Aug. 31; Sp. p. 6776; Gaz. vol. 145; p. 1162.
- Standing, R. H., Alexandria, Va. Clothes-pounder. No. 908,621; Jan. 5; Sp. p. 399; Gaz. vol. 138; p. 65.
- Standish, P. H., Cleveland, Ohio. Blank-conveying apparatus. No. 919,487; Apr. 27; Sp. p. 5441; Gaz. vol. 141; p. 937.
- Standish, P. H., Cleveland, Ohio. Chain-making machine. No. 919,488; Apr. 27; Sp. p. 5454; Gaz. vol. 141; p. 938.
- Stanek, C., Fort Dodge, Iowa. Lamp-burner. No. 913,991; Mar. 2; Sp. p. 711; Gaz. vol. 140; p. 112.
- Stanford, A. L., Chicago, Ill. Draft-gear. No. 927,382; July 6; Sp. p. 1257; Gaz. vol. 144; p. 200.
- Stanford, A. L., Chicago, Ill. Draft-gear. No. 927,383; July 6; Sp. p. 1361; Gaz. vol. 144; p. 200.
- Stanford, A. L., Chicago, Ill. Tie-plate. No. 931,517; Aug. 17; Sp. p. 3984; Gaz. vol. 145; p. 687.
- Stanford, A. L., Chicago, Ill. Rail-joint. No. 944,349; Dec. 28; Sp. p. 4953; Gaz. vol. 149; p. 874.
- Stanford, A. L., Chicago, Ill., assignor to Rail Joint Company. Rail-joint. No. 912,750; Feb. 16; Sp. p. 3625; Gaz. vol. 139; p. 638.
- Stanford, H. H., Halifax, Nova Scotia, Canada. Coat. No. 930,569; Aug. 10; Sp. p. 1944; Gaz. vol. 145; p. 343.
- Stange, L., Aachen, Germany, assignor to Chemical Industrial Syndicate Limited, London, England. Igniting composition for matches. No. 930,570; Aug. 10; Sp. p. 1946; Gaz. vol. 145; p. 343.

*Alphabetical list of patentees—Continued.*

- Stanford, H. E., Southport, Conn. Automatic register-gage for platen-presses. No. 909,249; Jan. 12; Sp. p. 1672; Gaz. vol. 138; p. 301.
- Stankus, J., Onondaga, Pa. Car-coupling. No. 918,792; Apr. 20; Sp. p. 3792; Gaz. vol. 141; p. 673.
- Stanlake, F., Owosso, Mich. Wire-stretcher. No. 932,828; Aug. 31; Sp. p. 6778; Gaz. vol. 145; p. 1162.
- Stanley, A. W. (See Manton and Stanley.)
- Stanley, C., San Francisco, assignor to Economic Safety Automobile Wheel Company, Alameda county, Cal. Vehicle-wheel. No. 909,034; Jan. 5; Sp. p. 1228; Gaz. vol. 138; p. 197.
- Stanley, C. B., New Britain, assignor to Stanley Rule & Level Company, Meriden, Conn. Tool-handle. No. 928,227; July 13; Sp. p. 3148; Gaz. vol. 144; p. 537.
- Stanley, C. B., assignor to Stanley Rule & Level Company, New Britain, Conn. Handle construction for planes and other tools. No. 930,243; Aug. 3; Sp. p. 1275; Gaz. vol. 145; p. 210.
- Stanley, C. M., Hamilton, Ohio. Craft adapted to travel in a resisting medium. No. 939,344; Nov. 9; Sp. p. 1976; Gaz. vol. 148; p. 336.
- Stanley, C. M., Hamilton, Ohio. Safety shutter device for moving-picture apparatus. No. 944,749; Dec. 28; Sp. p. 5876; Gaz. vol. 149; p. 1012.
- Stanley, C. M., Hamilton, Ohio, assignor to J. J. Weaver, Ludlow, Ky. Turn-table. No. 930,629; Aug. 10; Sp. p. 2075; Gaz. vol. 145; p. 363.
- Stanley, F. W., Grange-over-Sands, England. Means for holding and inflating pneumatic tires. No. 937,884; Oct. 26; Sp. p. 4764; Gaz. vol. 147; p. 824.
- Stanley, H. C., New York, N. Y. Clothes-hanger. No. 925,523; June 22; Sp. p. 5084; Gaz. vol. 143; p. 895.
- Stanley Liquid Soap Company. (See Backman, E. S., assignor.)
- Stanley, M. (See Havecotte and Stanley.)
- Stanley Motor Carriage Company. (See Whitney, G. E., assignor.)
- Stanley Rule & Level Company. (See Bartholomew, J. P., assignor.)
- Stanley Rule & Level Company. (See Bodmer, C., assignor.)
- Stanley Rule & Level Company. (See Martin, C. E., assignor.)
- Stanley Rule & Level Company. (See Mitchell, C. E., assignor.)
- Stanley Rule & Level Company. (See Mitchell and Schade, assignors.)
- Stanley Rule & Level Company. (See Schade, E. A., assignor.)
- Stanley Rule & Level Company. (See Stanley, C. B., assignor.)
- Stanley Rule & Level Company. (See Turnbull, A., assignor.)
- Stanley, T. H., Denver, Colo. Truss. No. 940,622; Nov. 16; Sp. p. 4815; Gaz. vol. 148; p. 803.
- Stanley, W., Great Barrington, Mass., assignor to General Electric Company. Means for and method of determining potential gradients. No. 925,606; June 22; Sp. p. 5247; Gaz. vol. 143; p. 923.
- Stanley, W., Great Barrington, Mass., assignor to General Electric Company. System for generating alternating currents. No. 925,607; June 22; Sp. p. 5252; Gaz. vol. 143; p. 924.
- Stanley, W., Great Barrington, Mass., assignor to General Electric Company. Alternating-current dynamo-electric machine. No. 925,666; June 22; Sp. p. 5376; Gaz. vol. 143; p. 942.
- Stanley, W., Great Barrington, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 933,399; Sept. 7; Sp. p. 821; Gaz. vol. 146; p. 128.
- Stanley, W., Great Barrington, Mass., assignor to General Electric Company. Alternating-current apparatus. No. 941,467; Nov. 30; Sp. p. 6670; Gaz. vol. 148; p. 1131.
- Stanley, W., Great Barrington, Mass., assignor to General Electric Company. Electric meter. No. 941,468; Nov. 30; Sp. p. 6675; Gaz. vol. 148; p. 1131.
- Stanley, W. O., Alliance, Ohio. Wrench. No. 944,468; Dec. 28; Sp. p. 5233; Gaz. vol. 149; p. 916.
- Stanley Works. (See Holtzhouser, J. P., assignor.)
- Stanley, W., Great Barrington, Mass., assignor to General Electric Company. Alternating-current meter. No. 941,469; Nov. 30; Sp. p. 6678; Gaz. vol. 148; p. 1131.
- Stannard, E. M., Bristol, Wis. Folding furniture. No. 921,301; May 11; Sp. p. 2464; Gaz. vol. 142; p. 429.
- Stansbury, G. E., and H. H. Hutchison, Catlin, Ill. Shaft-support. No. 943,576; Dec. 14; Sp. p. 3295; Gaz. vol. 149; p. 555.
- Stant, I. O., assignor of one-half to C. M. Evans, Dublin, Ind. Trolley-wheel. No. 912,199; Feb. 9; Sp. p. 2388; Gaz. vol. 139; p. 411.
- Stant, I. O., assignor of one-fourth to S. P. Bradway, Dublin, Ind., and one-fourth to Newton Balance Valve Co., Newton, Iowa. Railway-crossing. No. 942,358; Dec. 7; Sp. p. 689; Gaz. vol. 149; p. 111.
- Stapf, C. (See Schweida and Stapf.)
- Staples, A. E., Chester, Vt. Adjustable shade and umbrella holder. No. 923,596; June 1; Sp. p. 1088; Gaz. vol. 143; p. 166.
- Staples, E. S., New Haven, Conn. Basket-ball toy. No. 942,944; Dec. 14; Sp. p. 1959; Gaz. vol. 149; p. 340.
- Staples, H. A., Pawtucket, R. I. Chain-machine. No. 917,903; Apr. 13; Sp. p. 1908; Gaz. vol. 141; p. 346.
- Staples, J. A., Newburgh, N. Y. Spring system for beds, &c. No. 944,518; Dec. 28; Sp. p. 5359; Gaz. vol. 149; p. 934.
- Staples, W. (See Cox and Staples.)
- Stapleton, E. M., Cedarvale, Kans. Lawn-mower. No. 930,428; Aug. 10; Sp. p. 1625; Gaz. vol. 145; p. 294.
- Stapleton, J. T., Jersey City, N. J. Powder-receptacle. No. 933,796; Sept. 14; Sp. p. 1695; Gaz. vol. 146; p. 281.
- Stapleton, W. J. (See Allwardt, H. A., assignor.)
- Stapley, W. S., assignor to Bridgeport Brass Company, Bridgeport, Conn. Shade-holder. No. 915,498; Mar. 16; Sp. p. 3786; Gaz. vol. 140; p. 658.
- Stapley, W. S., assignor to Bridgeport Brass Company, Bridgeport, Conn. Grease-gun. No. 915,499; Mar. 16; Sp. p. 3788; Gaz. vol. 140; p. 658.
- Stapley, W. S., assignor to Bridgeport Brass Company, Bridgeport, Conn. Means for attaching electric-lamp sockets. No. 917,372; Apr. 6; Sp. p. 841; Gaz. vol. 141; p. 144.
- Stapley, W. S., assignor to Bridgeport Brass Company, Bridgeport, Conn. Combined chimney and mantle holder. No. 919,652; Apr. 27; Sp. p. 5780; Gaz. vol. 141; p. 994.
- Stapley, W. S., assignor to Bridgeport Brass Company, Bridgeport, Conn. Incandescent gas-burner. No. 921,748; May 18; Sp. p. 3405; Gaz. vol. 142; p. 606.
- Stapp, E. O., Holladay, Tenn. Life-preserver. No. 914,987; Mar. 9; Sp. p. 2747; Gaz. vol. 140; p. 463.
- Stapp, F., Denver, Colo. Heat and smoke generator. No. 915,239; Mar. 16; Sp. p. 3284; Gaz. vol. 140; p. 574.
- Stapp, F., Denver, Colo. Heating device for orchards. No. 915,240; Mar. 16; Sp. p. 3286; Gaz. vol. 140; p. 574.
- Star Brass Manufacturing Company. (See Fernald, C. F., assignor.)
- Star Milk Cooler Company. (See Heulings, S. M., assignor.)
- Star Novelty Manufacturing Co. (See Vandiver, L. A., assignor.)
- Star Patent Table Company. (See Wettergren, A. G., assignor.)
- Star Speedometer Company. (See Dudley, Greenleaf, and Dudley, assignors.)
- Star Storm Front Company. (See Scott, G. W., assignor.)
- Starbard, C., Worcester, Mass. Holder for nursing-bottles. No. 932,344; Aug. 24; Sp. p. 5740; Gaz. vol. 145; p. 979.
- Starbird, C. H., Eureka, Cal. Logging device. No. 909,250; Jan. 12; Sp. p. 1674; Gaz. vol. 138; p. 301.
- Stark, A., Chicago, Ill. Railway-track structure. No. 923,453; June 1; Sp. p. 770; Gaz. vol. 143; p. 114.
- Stark, C. W., Mountain Lake, Minn. Wheel-scraper. No. 913,576; Feb. 23; Sp. p. 5284; Gaz. vol. 139; p. 936.
- Stark, C. W., Mountain Lake, Minn. Combined grass-grubber and cultivator. No. 930,996; Aug. 10; Sp. p. 2857; Gaz. vol. 145; p. 482.
- Stark, C. W., Mountain Lake, Minn. Fastening device. No. 942,470; Dec. 7; Sp. p. 928; Gaz. vol. 149; p. 150.
- Stark, C. W., Mountain Lake, Minn. Wheel-scraper. No. 942,471; Dec. 7; Sp. p. 930; Gaz. vol. 149; p. 150.
- Stark, C. W., Mountain Lake, Minn. Seeder. No. 942,868; Dec. 7; Sp. p. 1742; Gaz. vol. 149; p. 282.
- Stark, E. A., Hope, Ark. Rail-joint. No. 912,913; Feb. 16; Sp. p. 3904; Gaz. vol. 139; p. 688.
- Stark, G. L., Hydepark, and A. W. Baxter, Los Angeles, Cal. Skewer. No. 935,171; Sept. 28; Sp. p. 4422; Gaz. vol. 146; p. 788.
- Stark, L. M. (See Richter, O. F., assignor.)
- Stark, M. J., Jr., assignor of one-half to C. B. Knudsen, Chicago, Ill. Telephone slug-holder. No. 930,100; Aug. 3; Sp. p. 1012; Gaz. vol. 145; p. 163.
- Stark, T. E., Naperville, Ill. Portable writing and drawing desk. No. 942,148; Dec. 7; Sp. p. 269; Gaz. vol. 149; p. 41.
- Stark, W. J., Salt Lake City, Utah. Apparatus for repairing pneumatic tires. No. 919,391; Apr. 27; Sp. p. 5218; Gaz. vol. 141; p. 904.
- Stark, W. M. (See Howard and Stark.)
- Stark, W. O., Chicago, Ill. Excavator. No. 936,179; Oct. 5; Sp. p. 1212; Gaz. vol. 147; p. 184.
- Stark, W. O., assignor to Illinois Malleable Iron Company, Chicago, Ill. Brake-shoe. No. 918,605; Apr. 20; Sp. p. 3354; Gaz. vol. 141; p. 609.
- Starke, A., Richmond, Va. Piston-head for engines. No. 941,737; Nov. 30; Sp. p. 7238; Gaz. vol. 148; p. 1221.
- Starke, E. A., Berkeley, Cal. Producing benzene or its homologues from petroleum. No. 913,780; Mar. 2; Sp. p. 222; Gaz. vol. 140; p. 37.
- Starkey, L. H., New York, N. Y. Dial. No. 919,262; Apr. 20; Sp. p. 4924; Gaz. vol. 141; p. 825.
- Starkeyweather, G. A., Pontoon, Ill. Railway-tie. No. 928,814; July 20; Sp. p. 4365; Gaz. vol. 144; p. 761.
- Starkeyweather, R. G. (See Loomis, W. A., assignor.)
- Starnes, G. R., assignor of one-half to S. T. Stowe, Charlotte, N. C. Portable camp. No. 926,683; June 29; Sp. p. 7448; Gaz. vol. 143; p. 1313.



*Alphabetical list of patentees—Continued.*

- Starr, A. B., and A. E. Meinke, Cleveland, Ohio., assignors to Single Service Package Corporation of America. Receptacle. No. 921,478; May 11; Sp. p. 2850; Gaz. vol. 142; p. 490.
- Starr, A. M., Lankershim, Cal. Line-chalker. No. 921,302; May 11; Sp. p. 2468; Gaz. vol. 142; p. 429.
- Starr, C. M., South Bend, Ind. Brick-machine. No. 940,623; Nov. 16; Sp. p. 4817; Gaz. vol. 148; p. 803.
- Starr, F. W., Springfield, Ohio. Mail-bag receiving and delivering apparatus. No. 929,891; Aug. 3; Sp. p. 581; Gaz. vol. 145; p. 91.
- Starr, G. W., Lansing, Mich. Friction-clutch. No. 924,850; June 15; Sp. p. 3768; Gaz. vol. 143; p. 645.
- Starr, J. H., assignor to E. A. Mallory and Sons, Danbury, Conn. Machine for clipping blocked hat-bodies. No. 925,608; June 22; Sp. p. 5256; Gaz. vol. 143; p. 924.
- Starr Piano Company. (See Draper, F. W., assignor.)
- Starr, W. C., Silverspring, Fla. Lumber-loader. No. 937,192; Oct. 19; Sp. p. 3312; Gaz. vol. 147; p. 576.
- Starrett, L. S., assignor to L. S. Starrett Co., Athol, Mass. Spindle-lock for micrometer-gages. No. 928,889; July 20; Sp. p. 4528; Gaz. vol. 144; p. 788.
- Starter Manufacturing Company. (See Annable, W. W., assignor.)
- Starzman, C., Pittsburg, Pa. Nut-lock. No. 933,595; Sept. 7; Sp. p. 1296; Gaz. vol. 146; p. 192.
- Stasch, E. R., Corning, N. Y. Reversible-draft stove. No. 915,500; Mar. 16; Sp. p. 3790; Gaz. vol. 140; p. 659.
- Stasch, E. R., Corning, N. Y. Corrugating-machine. No. 929,722; Aug. 3; Sp. p. 177; Gaz. vol. 145; p. 31.
- Staska, C., Pittsburg, Pa. Mangle. No. 919,972; Apr. 27; Sp. p. 6435; Gaz. vol. 141; p. 1100.
- State, J. E., East St. Louis, Mo. Attachment for match-making machines. No. 935,825; Oct. 5; Sp. p. 491; Gaz. vol. 147; p. 69.
- State, W. C., assignor to F. A. Seiberling, Akron, Ohio. Pneumatic-tire-shoe-manufacturing machine. No. 941,962; Nov. 30; Sp. p. 7708; Gaz. vol. 148; p. 1299.
- Statler, L. W., Piqua, Ohio. Detachable draft-tongue for quarry-trucks. No. 944,387; Dec. 28; Sp. p. 5045; Gaz. vol. 149; p. 888.
- Stattman, F. (See Nachbaur and Stattman.)
- Stauber, J., Brookville, Kans. Hat-fastener. No. 917,180; Apr. 6; Sp. p. 441; Gaz. vol. 141; p. 77.
- Stauber, J., De Pere, Wis. Gun-lock. No. 933,135; Sept. 7; Sp. p. 202; Gaz. vol. 146; p. 34.
- Stauch, P., Chicago, Ill. Motor. No. 912,914; Feb. 16; Sp. p. 3905; Gaz. vol. 139; p. 688.
- Stauda, E. G., Minneapolis, Minn. Ejecting device for cutting-rolls. No. 909,957; Jan. 19; Sp. p. 3088; Gaz. vol. 138; p. 570.
- Stauder, J., Mount Vernon, N. Y. Washing-machine. No. 915,803; Mar. 23; Sp. p. 4437; Gaz. vol. 140; p. 788.
- Stauffer, A. L., Stevens, Pa. Ice-sawing machine. No. 935,866; Oct. 5; Sp. p. 572; Gaz. vol. 147; p. 83.
- Stauffer, D. C., Canton, Ohio. Scale. No. 942,945; Dec. 14; Sp. p. 1960; Gaz. vol. 149; p. 340.
- Stauffer, S. D., Lancaster, Pa. Radiator. No. 935,172; Sept. 28; Sp. p. 4424; Gaz. vol. 146; p. 788.
- Stauff, D. B., Scottsdale, Pa. Apparatus for watering coke-ovens. No. 925,241; June 15; Sp. p. 4549; Gaz. vol. 143; p. 777.
- Staunton, G., assignor, by mesne assignments, to W. S. Potwin, Chicago, Ill. Closure for jars or vessels. No. 934,103; Sept. 14; Sp. p. 2315; Gaz. vol. 146; p. 379.
- Stavenik, V., Mansfield, Ohio. Flue expander and cutter. No. 911,172; Feb. 2; Sp. p. 292; Gaz. vol. 139; p. 51.
- Stawartz, J., Homestead, assignor of one-half to C. S. Tarkowski, Pittsburg, Pa. Curtain-stretcher. No. 926,081; June 22; Sp. p. 6267; Gaz. vol. 143; p. 1079.
- Stayman, A., Pleasant Hope, Mo. Check-row corn-planter. No. 943,713; Dec. 21; Sp. p. 3639; Gaz. vol. 149; p. 632.
- Stayt, E. H., Spokane, Wash. Support or stand for bicycles. No. 920,785; May 4; Sp. p. 1402; Gaz. vol. 142; p. 227.
- Stayton, F. J., Madisonville, assignor to A. Nielsen & Company, Cincinnati, Ohio. Percolator. No. 921,907; May 18; Sp. p. 3738; Gaz. vol. 142; p. 659.
- Sté, J. Basler & Cie. (See Dubosc, O. L. A., assignor.)
- Steam Appliance Manufacturing Company. (See Morrison, J. W., assignor.)
- Stealing, M. M., Missoula, Mont. Flue-stopper. No. 914,988; Mar. 9; Sp. p. 2748; Gaz. vol. 140; p. 463.
- Stearns, D. L., Martelle, Iowa. Vehicle jack and lifter. No. 923,454; June 1; Sp. p. 772; Gaz. vol. 143; p. 114.
- Stearns, J. B., Lynn, Mass. Lubricating-packing. No. 915,804; Mar. 23; Sp. p. 4438; Gaz. vol. 140; p. 788.
- Stearns, L. M., assignor to Art Metal Construction Company, Jamestown, N. Y. Locking device for shelves. No. 929,723; Aug. 3; Sp. p. 182; Gaz. vol. 145; p. 31.
- Stearns, R., Schenectady, N. Y., assignor to General Electric Company. Electric-railway system. No. 921,176; May 11; Sp. p. 2202; Gaz. vol. 142; p. 388.
- Stearns, R. H., Milwaukee, Wis., assignor to Morse Twist Drill and Machine Co., New Bedford, Mass. Arbor for shell-reamers. No. 939,345; Nov. 9; Sp. p. 1978; Gaz. vol. 148; p. 336.
- Stebbins, A. H., Little Rock, Ark. Concentrating ores. No. 923,455; June 1; Sp. p. 775; Gaz. vol. 143; p. 115.
- Stebbins, C. B. (See Hovey and Stebbins.)
- Stebbins, C. B., assignor to Sheffield Car Company, Three Rivers, Mich. Control for driving mechanisms. No. 944,293; Dec. 28; Sp. p. 4838; Gaz. vol. 149; p. 854.
- Stebbins, F. E. (See Wright and Stebbins.)
- Stebbins, G. A., Watertown, N. Y. Sulfur-burner. No. 934,700; Sept. 21; Sp. p. 3477; Gaz. vol. 146; p. 605.
- Stebbins, R. O., New York, N. Y. Canteen. No. 929,337; July 27; Sp. p. 5504; Gaz. vol. 144; p. 965.
- Stebbins, W. G. (See Leland and Stebbins.)
- Stebbins, W. G., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Glass-cutter. No. 911,342; Feb. 2; Sp. p. 623; Gaz. vol. 139; p. 107.
- Stebbins, W. K. (See Zillgitt and Stebbins.)
- Steber, B. T., Utica, N. Y. Knitted fabric. No. 920,207; May 4; Sp. p. 235; Gaz. vol. 142; p. 37.
- Steber, B. T., assignor to Steber Machine Company, Utica, N. Y. Stop-motion for knitting-machines. No. 944,921; Dec. 28; Sp. p. 6225; Gaz. vol. 149; p. 1070.
- Steber Machine Company. (See Steber, B. T., assignor.)
- Steber, F., Riverside, Cal. Fruit-cleaner. No. 928,558; July 20; Sp. p. 3858; Gaz. vol. 144; p. 675.
- Steber, F., Riverside, Cal. Fruit-cleaner. No. 928,559; July 20; Sp. p. 3861; Gaz. vol. 144; p. 676.
- Steber, F., Riverside, Cal. Distributing apparatus. No. 943,799; Dec. 21; Sp. p. 3803; Gaz. vol. 149; p. 662.
- Stecher, F. A., Rochester, N. Y. Imitation house. No. 910,240; Jan. 19; Sp. p. 3666; Gaz. vol. 138; p. 666.
- Stecher, G. (See Ehmsen, C. F., assignor.)
- Steckel, A. P., Buffalo, N. Y. Electrical clutch and the like. No. 908,707; Jan. 5; Sp. p. 591; Gaz. vol. 138; p. 92.
- Steckel, A. P., Buffalo, N. Y. Controlling means for electrical clutch driving mechanism. No. 934,104; Sept. 14; Sp. p. 2317; Gaz. vol. 146; p. 380.
- Steckel, A. P., New York, N. Y. Electrical controlling means for planers and other machines. No. 936,577; Oct. 12; Sp. p. 2061; Gaz. vol. 147; p. 341.
- Steckel, A. P., Buffalo, N. Y., and F. du P. Thomson, Wheeling, W. Va. Electrical clutch and brake. No. 912,504; Feb. 16; Sp. p. 3047; Gaz. vol. 139; p. 551.
- Steckelberg, C. F., Lincoln, Nebr. Finger-exercising device. No. 936,181; Oct. 5; Sp. p. 1224; Gaz. vol. 147; p. 184.
- Stecker, A. J., assignor to F. Wardell, Detroit, Mich. Liquid-level indicator. No. 917,808; Apr. 13; Sp. p. 1694; Gaz. vol. 141; p. 314.
- Stecker, A. J., assignor to Eureka Vibrator Co., Detroit, Mich. Vibrator. No. 942,596; Dec. 7; Sp. p. 1178; Gaz. vol. 149; p. 191.
- Stecker, A. J., assignor to Eureka Vibrator Co., Detroit, Mich. Vibrator. No. 943,620; Dec. 14; Sp. p. 3425; Gaz. vol. 149; p. 571.
- Stecker, F. C. (See Gerhardt and Stecker.)
- Stecker, J., Cincinnati, Ohio. Overalls. No. 924,013; June 8; Sp. p. 2009; Gaz. vol. 143; p. 333.
- Stedham, T., Victoria, British Columbia, Canada. Reinforced-concrete pile. No. 942,018; Nov. 30; Sp. p. 7812; Gaz. vol. 148; p. 1315.
- Stedman, J. F., Newberg, Oreg. Cutter-head. No. 932,345; Aug. 24; Sp. p. 5741; Gaz. vol. 145; p. 980.
- Stedman, G. F., St. Louis, Mo. Balanced-pressure elevator. No. 932,726; Aug. 31; Sp. p. 6561; Gaz. vol. 145; p. 1130.
- Stedman, G. F., St. Louis, Mo. Locking mechanism for elevators. No. 938,520; Nov. 2; Sp. p. 178; Gaz. vol. 148; p. 25.
- Steel, C. W. (See Reesor and Steel.)
- Steel, M. Jr., Gosforth, England. Means for supplying oil to carbureters. No. 934,366; Sept. 14; Sp. p. 2813; Gaz. vol. 146; p. 469.
- Steel, M. Jr., Gosforth, England. Carburetor. No. 934,367; Sept. 14; Sp. p. 2814; Gaz. vol. 146; p. 469.
- Steele, B. G., Akron, Ohio. Combined skylight and ventilator. No. 909,472; Jan. 12; Sp. p. 2099; Gaz. vol. 138; p. 373.
- Steele, B. M., assignor to Ben Steele Weigher Manufacturing Company, Peoria, Ill. Conveyer. No. 936,745; Oct. 12; Sp. p. 2400; Gaz. vol. 147; p. 400.
- Steele, C. A., Jr., South Hadley Falls, Mass. Mustache-guard. No. 927,892; July 13; Sp. p. 2483; Gaz. vol. 144; p. 424.
- Steele, D. J. (See Lackie and Steele.)
- Steele, E. H., Los Angeles, Cal. Water-heater. No. 908,512; Jan. 5; Sp. p. 160; Gaz. vol. 138; p. 29.
- Steele, E. J., Torrington, Conn., and T. H. C. Hansen, Kenosha, Wis., assignors to Coe Brass Manufacturing Company. Machine for forming tubes. No. 943,902; Dec. 21; Sp. p. 4024; Gaz. vol. 149; p. 697.
- Steele, F. J., Imogene, Iowa. Hay-stacker. No. 916,050; Mar. 23; Sp. p. 4899; Gaz. vol. 140; p. 868.
- Steele, G., assignor of one-half to F. L. Eaton, Sioux City, Iowa. Damper-regulator. No. 931,095; Aug. 17; Sp. p. 3096; Gaz. vol. 145; p. 543.

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- Steele, H. H., Marcellus, assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 914,081; Mar. 2; Sp. p. 910; Gaz. vol. 140; p. 143.
- Steele, H. H., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 909,473; Jan. 12; Sp. p. 2100; Gaz. vol. 138; p. 374.
- Steele, H. H., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 921,303; May 11; Sp. p. 2470; Gaz. vol. 142; p. 430.
- Steele, H. H., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 929,259; July 27; Sp. p. 5290; Gaz. vol. 144; p. 936.
- Steele, H. H., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 930,571; Aug. 10; Sp. p. 1947; Gaz. vol. 145; p. 344.
- Steele, H. H., assignor to Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 933,209; Sept. 7; Sp. p. 393; Gaz. vol. 146; p. 62.
- Steele, H. H., Syracuse, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 917,373; Apr. 6; Sp. p. 842; Gaz. vol. 141; p. 144.
- Steele, H. H., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 929,258; July 27; Sp. p. 5277; Gaz. vol. 144; p. 936.
- Steele, H. W., assignor to Shelby Spring Hinge Company, Shelby, Ohio. Spring-hinge. (Reissue.) No. 12,978; June 22; Sp. p. 6282; Gaz. vol. 143; p. 1082.
- Steele, J. C., Granite, Ill. Hat-pin. No. 913,067; Feb. 23; Sp. p. 4218; Gaz. vol. 139; p. 763.
- Steele, L. C., Columbus, Ohio. Circuit-breaker. No. 920,208; May 4; Sp. p. 238; Gaz. vol. 142; p. 38.
- Steele, L. C., Vandergrift, Pa. Plate-bar-heating furnace. No. 941,738; Nov. 30; Sp. p. 7241; Gaz. vol. 148; p. 1221.
- Steele, L. T. (See Sengele, L. A., assignor.)
- Steele, W. M., Brooklyn, N. Y. Seal. No. 944,701; Dec. 28; Sp. p. 5754; Gaz. vol. 149; p. 996.
- Steele, W. M., Brooklyn, N. Y. Seal. No. 941,702; Dec. 28; Sp. p. 5755; Gaz. vol. 149; p. 996.
- Steele, W. F., Palsade, N. J., J. Player and C. J. Mellin, Schenectady, assignors to American Locomotive Company, New York, N. Y. Spark-arresting appliance for lignite-burning locomotives. No. 934,767; Sept. 21; Sp. p. 3597; Gaz. vol. 146; p. 627.
- Steelman, F., assignor of two-thirds to C. S. Bollinger and S. P. Smith, St. Paris, Ohio. Cushioned horseshoe. No. 911,914; Feb. 9; Sp. p. 1736; Gaz. vol. 139; p. 321.
- Steely, C. M., Philadelphia, Pa. Explosive-engine. No. 912,751; Feb. 16; Sp. p. 3627; Gaz. vol. 139; p. 638.
- Steen, E. F., Cripple Creek, Colo. Electric bell. No. 908,899; Jan. 5; Sp. p. 966; Gaz. vol. 138; p. 154.
- Steen, H. A., Edgewood, and A. J. Loguin, Wilkensburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical controller. No. 923,597; June 1; Sp. p. 1090; Gaz. vol. 143; p. 167.
- Steen, R. J., Canyon, Tex. Feeder for grinders. No. 918,215; Apr. 13; Sp. p. 2552; Gaz. vol. 141; p. 454.
- Steen, R. W., Kansas City, Mo. Carousel or merry-go-round. No. 923,087; May 25; Sp. p. 6166; Gaz. vol. 142; p. 1070.
- Steen, T. J., St. Paul, Nebr. Winker-strap for brides. No. 913,577; Feb. 23; Sp. p. 5285; Gaz. vol. 139; p. 930.
- Steen, W. B., Erie, Pa. Shaft-coupling. No. 913,992; Mar. 2; Sp. p. 713; Gaz. vol. 140; p. 112.
- Steenburgh, S. (See McKinley and Steenburgh.)
- Steenstrup, P. S., and C. S. Lockwood, Newark, N. J. Roller-bearing yoke driven by shaft. No. 926,967; July 6; Sp. p. 542; Gaz. vol. 144; p. 89.
- Steere, W. J., assignor of one-half to J. A. Huff, Rockwood, Tenn. Trimmer for loopers. No. 916,799; Mar. 30; Sp. p. 6343; Gaz. vol. 140; p. 1133.
- Steers, L. C. (See Lamont and Steers.)
- Steffens, A. D., Chicago, Ill. Preventing explosions in subterranean hollows. No. 944,977; Dec. 28; Sp. p. 6337; Gaz. vol. 149; p. 1087.
- Steffin, A., assignor to Fairpoint Corporation, New Bedford, Mass. Glass shade and screen. No. 928,340; July 20; Sp. p. 3438; Gaz. vol. 144; p. 606.
- Stegall, J. T. (See Kirksey and Stegall.)
- Steger, M., Bochum, Germany. Apparatus for separating particles of liquid from gases and vapors. No. 940,947; Nov. 23; Sp. p. 5533; Gaz. vol. 148; p. 937.
- Steger, T. M. (See Smartt, B., assignor.)
- Steger, W., Linden Heights, Ohio. Weather-strip. No. 937,193; Oct. 19; Sp. p. 3315; Gaz. vol. 147; p. 576.
- Stegmaier, M. L., Cumberland, Md. Credit-account file-cabinet. No. 924,700; June 15; Sp. p. 3455; Gaz. vol. 143; p. 594.
- Stehlin, C. F., New Rochelle, N. Y. Copy-holder. No. 910,968; Jan. 26; Sp. p. 5162; Gaz. vol. 138; p. 931.
- Stehling, J. J., Milwaukee, Wis. Leach-casting machine. No. 921,021; May 11; Sp. p. 1886; Gaz. vol. 142; p. 334.
- Stehn, E. M. (See Anderson, C. A., assignor.)
- Steiber, C. F., New York, N. Y. Metal stair. No. 919,789; Apr. 27; Sp. p. 6046; Gaz. vol. 141; p. 1039.
- Steiber, C. F., New York, N. Y. Die for pressing sheet metal. No. 927,184; July 6; Sp. p. 1003; Gaz. vol. 144; p. 163.
- Steidle, C., Hillsboro, Mo. Mixing-machine. No. 936,182; Oct. 5; Sp. p. 1225; Gaz. vol. 147; p. 185.
- Steidl, R., Giengen, Germany. Joint connection for mechanical toys. No. 934,025; Sept. 14; Sp. p. 2145; Gaz. vol. 146; p. 355.
- Steiger, A. W., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 930,500; Aug. 10; Sp. p. 1763; Gaz. vol. 145; p. 318.
- Steiger, A. W., Bridgeport, Conn., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 938,178; Oct. 26; Sp. p. 5401; Gaz. vol. 147; p. 923.
- Steiger, A. W., Bridgeport, Conn., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 942,113; Dec. 7; Sp. p. 181; Gaz. vol. 149; p. 27.
- Steiger, J., and J. Besançon, La Chaux-de-Fonds, Switzerland. Secondary electric clock. No. 919,790; Apr. 27; Sp. p. 6047; Gaz. vol. 141; p. 1039.
- Steiger, J., and J. Besançon, La Chaux-de-Fonds, Switzerland. Electric self-winding clock. No. 931,157; Aug. 17; Sp. p. 2249; Gaz. vol. 145; p. 565.
- Steiger, J. R., Philadelphia, Pa. Beer-pipe-cleaning apparatus. No. 927,893; July 13; Sp. p. 2485; Gaz. vol. 144; p. 424.
- Steiger, W. H., assignor to Union Shoe Polishing Machine Company, Elmira, N. Y. Coin-controlled device. No. 924,851; June 15; Sp. p. 3770; Gaz. vol. 143; p. 645.
- Steiger, W. V., assignor to Perkins Electric Switch Mfg. Company, Bridgeport, Conn. Electric switch. No. 922,443; May 18; Sp. p. 4822; Gaz. vol. 142; p. 834.
- Steil, E., assignor to Berlin-Anhaltische Maschinenbau, Actiengesellschaft, Berlin, Germany. Fastening device for incandescent bodies. No. 937,483; Oct. 19; Sp. p. 3955; Gaz. vol. 147; p. 672.
- Stein, A. (See Lovejoy, J. F., assignor.)
- Stein, G. W., Chicago, Ill. Window-ventilator. No. 936,183; Oct. 5; Sp. p. 1226; Gaz. vol. 147; p. 185.
- Stein, J. M., Washington, D. C. Shoulder-pressing device for garments. No. 922,733; May 25; Sp. p. 5421; Gaz. vol. 142; p. 956.
- Stein, J. M., Washington, D. C. Presser-form. No. 922,734; May 25; Sp. p. 5426; Gaz. vol. 142; p. 956.
- Stein, J. M., Washington, D. C. Shoulder-presser form. No. 922,735; May 25; Sp. p. 5431; Gaz. vol. 142; p. 957.
- Stein, J. P., Reading, Pa. Operating device for vehicle-lamps. No. 941,739; Nov. 30; Sp. p. 7242; Gaz. vol. 148; p. 1221.
- Stein, M., Santa Monica, Cal. Infant's toilet-seat. No. 932,592; Aug. 31; Sp. p. 6271; Gaz. vol. 145; p. 1085.
- Stein, M., Santa Monica, Cal. Dressmaker's skirt-gage. No. 937,335; Oct. 19; Sp. p. 3603; Gaz. vol. 147; p. 622.
- Stein, R., Seattle, Wash. Separator. No. 916,625; Mar. 30; Sp. p. 6041; Gaz. vol. 140; p. 1083.
- Stein, R. R., Seattle, Wash. Brake. No. 913,781; Mar. 2; Sp. p. 223; Gaz. vol. 140; p. 37.
- Stein, W. O., Pottsville, Pa. Hose-camp applicator. No. 919,973; Apr. 27; Sp. p. 6438; Gaz. vol. 141; p. 1100.
- Steinberger, L., New York, N. Y. Disk insulator. No. 913,439; Feb. 23; Sp. p. 4972; Gaz. vol. 139; p. 890.
- Steinberger, L., New York, N. Y. Under-grooved trolley-wire. No. 917,500; Apr. 6; Sp. p. 1063; Gaz. vol. 141; p. 186.
- Steinberger, L., New York, N. Y. Third-rail insulator. No. 917,501; Apr. 6; Sp. p. 1065; Gaz. vol. 141; p. 186.
- Steinberger, L., New York, N. Y. Insulated hanger. No. 923,598; June 1; Sp. p. 1091; Gaz. vol. 143; p. 167.
- Steinberger, L., New York, N. Y. Tubular insulator. No. 927,185; July 6; Sp. p. 1006; Gaz. vol. 144; p. 163.
- Steinberger, L., New York, N. Y. High-potential strain-insulator. No. 927,186; July 6; Sp. p. 1008; Gaz. vol. 144; p. 163.
- Steinberger, L., New York, N. Y. Insulator. No. 927,187; July 6; Sp. p. 1010; Gaz. vol. 144; p. 164.
- Steinberger, L., New York, N. Y. Insulator for third rails. No. 928,709; July 20; Sp. p. 4168; Gaz. vol. 144; p. 726.
- Steinberger, L., New York, N. Y. Binding-post. No. 941,893; Nov. 30; Sp. p. 7581; Gaz. vol. 148; p. 1276.
- Steinbrunn, J. J., Pitcairn, Pa. Boring-bar. No. 936,955; Oct. 12; Sp. p. 2816; Gaz. vol. 147; p. 469.
- Steinbuech, J., and L. Kaufmann, New York, N. Y. Cushioning device for crates and other packages. No. 916,800; Mar. 30; Sp. p. 6347; Gaz. vol. 140; p. 1134.
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- Steingruber, G., assignor to F. Herzog, Washington, D. C. Extension-table. No. 915,241; Mar. 16; Sp. p. 3287; Gaz. vol. 140; p. 574.
- Steinhilber, H. (See Straub and Steinhilber.)
- Steinhilber, C., *et al.* (See Anderson, A., assignor.)
- Steinle, G. A., assignor to Steinle Turret Machine Company, Madison, Wis. Clutch-gearing. No. 915,900; Mar. 23; Sp. p. 4620; Gaz. vol. 140; p. 819.
- Steinle, G. A., assignor to Steinle Turret Machine Company, Madison, Wis. Gearing. No. 934,105; Sept. 14; Sp. p. 2320; Gaz. vol. 146; p. 380.
- Steinle Turret Machine Company. (See Steinle, G. A., assignor.)
- Steinman, C. A., Camden, N. J. Milk-bottle mat. No. 934,230; Sept. 14; Sp. p. 2565; Gaz. vol. 146; p. 424.
- Steinman, E. H. (See Edmonds, C. N., assignor.)
- Steinmann, C. W. F., San Francisco, Cal. Centrifugal grain-drier. No. 930,898; Aug. 10; Sp. p. 2633; Gaz. vol. 145; p. 451.
- Steinmetz, C. P., Schenectady, N. Y., assignor to General Electric Company. Wireless-telegraph transmitter. No. 910,430; Jan. 19; Sp. p. 4086; Gaz. vol. 138; p. 732.
- Steinmetz, C. P., Schenectady, N. Y., assignor to General Electric Company. Electric lamp and making the same. No. 910,736; Jan. 26; Sp. p. 4710; Gaz. vol. 138; p. 856.
- Steinmetz, C. P., Schenectady, N. Y., assignor to General Electric Company. Electric lamp and making the same. No. 910,969; Jan. 26; Sp. p. 5165; Gaz. vol. 138; p. 931.
- Steinmetz, C. P., Schenectady, N. Y., assignor to General Electric Company. Electrode for arc-lights. No. 914,891; Mar. 9; Sp. p. 2598; Gaz. vol. 140; p. 434.
- Steinmetz, C. P., Schenectady, N. Y., assignor to General Electric Company. Single-phase alternator. No. 917,181; Apr. 6; Sp. p. 442; Gaz. vol. 141; p. 78.
- Steinmetz, C. P., Schenectady, N. Y., assignor to General Electric Company. Bucket for elastic-fluid turbines. No. 924,852; June 15; Sp. p. 3774; Gaz. vol. 143; p. 645.
- Steinmetz, C. P., Schenectady, N. Y., assignor to General Electric Company. Alternating-current rectifying apparatus. No. 930,997; Aug. 10; Sp. p. 2861; Gaz. vol. 145; p. 482.
- Steinmetz, C. P., Schenectady, N. Y., assignor to General Electric Company. Thermometer. No. 935,940; Oct. 5; Sp. p. 727; Gaz. vol. 147; p. 107.
- Steinmetz, C. P., Schenectady, N. Y., assignor to General Electric Company. Alternating-current dynamo-electric machine. No. 935,941; Oct. 5; Sp. p. 728; Gaz. vol. 147; p. 108.
- Steinmetz, C. P., Schenectady, N. Y., assignor to General Electric Company. Attachment for mercury-lamps. No. 940,209; Nov. 16; Sp. p. 3910; Gaz. vol. 148; p. 664.
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- Steinmetz, C. P., Schenectady, N. Y., assignor to General Electric Company. Electric lighting. No. 942,472; Dec. 7; Sp. p. 932; Gaz. vol. 149; p. 150.
- Steinmetz, J. A., Philadelphia, Pa. Letter-box. No. 925,524; June 22; Sp. p. 5086; Gaz. vol. 143; p. 896.
- Steinmetz, J. A., Philadelphia, Pa. Balloon. No. 936,680; Oct. 12; Sp. p. 2280; Gaz. vol. 147; p. 378.
- Steinmetz, W. H. (See Wolfe and Steinmetz.)
- Steinwand, A. M., Colby, Wis. Whey-pump spout. No. 925,242; June 15; Sp. p. 4550; Gaz. vol. 143; p. 777.
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- Stelle, C. A., Chicago, Ill. Percolator. No. 938,906; Nov. 2; Sp. p. 1007; Gaz. vol. 148; p. 159.
- Steller, T. A. (See Carpenter, J. R., assignor.)
- Stelzer, C. G., Polk, Ohio. Clod-crusher. No. 941,740; Nov. 30; Sp. p. 7243; Gaz. vol. 148; p. 1221.
- Stempel, W. M., Urbana, Ill. Sparking device for gas or oil engines. No. 943,324; Dec. 14; Sp. p. 2770; Gaz. vol. 149; p. 468.
- Stendahl, K. L., assignor to Hurwood Manufacturing Company, Incorporated, Bridgeport, Conn. Cold-blast lantern. No. 921,022; May 11; Sp. p. 1890; Gaz. vol. 142; p. 334.
- Stenech, A., Lafayette, Colo. Pipe-wrench. No. 934,945; Sept. 21; Sp. p. 3963; Gaz. vol. 146; p. 688.
- Stenersen & Roholt. (See Amdahl, L. M., assignor.)
- Stenger, W. J. (See Stoland, J., assignor.)
- Stenger, W. J., Mohall, N. D. Wrench. No. 909,474; Jan. 12; Sp. p. 2107; Gaz. vol. 138; p. 374.
- Stenger, W. J., Mohall, N. D. Coupling for traction-engines. No. 911,456; Feb. 2; Sp. p. 825; Gaz. vol. 139; p. 145.
- Stenman, E. F., Worcester, Mass. Sad-iron. No. 915,242; Mar. 16; Sp. p. 3289; Gaz. vol. 140; p. 575.
- Stenman, E. F., Worcester, Mass. Skirt-measuring device. No. 927,819; July 13; Sp. p. 2325; Gaz. vol. 144; p. 401.
- Stenner, J. T. (See Ley, H. W., assignor.)
- Stenz, G. W., Ashland, Wis. Wrench. No. 910,737; Jan. 26; Sp. p. 4712; Gaz. vol. 138; p. 856.
- Stenzel, F. O., Patterson, Tex. Belt-fastener. No. 926,616; June 29; Sp. p. 7320; Gaz. vol. 143; p. 1291.
- Stepanek, W. H., Cedar Rapids, Iowa. Sales and cash register. No. 921,304; May 11; Sp. p. 2477; Gaz. vol. 142; p. 430.
- Stephan, C., and A. Rahtjen, Hamburg, Germany. Making sulfurous-acid compound of alpha-isatin anilid. No. 937,194; Oct. 19; Sp. p. 3316; Gaz. vol. 147; p. 577.
- Stephan, H., New York, N. Y. Ticket-case. No. 930,429; Aug. 10; Sp. p. 1626; Gaz. vol. 145; p. 294.
- Stephan, H., assignor to C. Lenz, Eberswalde, Germany. Safety device for the triggers of firearms. No. 920,682; May 4; Sp. p. 1207; Gaz. vol. 142; p. 194.
- Stephan, W. G., Cleveland, Ohio. Hoist-block. No. 912,434; Feb. 16; Sp. p. 2907; Gaz. vol. 139; p. 528.
- Stephens, C., Pinkstaff, Ill. Traction-tire. No. 924,701; June 15; Sp. p. 3458; Gaz. vol. 143; p. 595.
- Stephens, C. D., Chicago, Ill. Apparatus for conditioning grain. No. 934,026; Sept. 14; Sp. p. 2146; Gaz. vol. 146; p. 355.
- Stephens, E. M., New York, N. Y. Self-closing device for windows. No. 932,509; Aug. 31; Sp. p. 6093; Gaz. vol. 145; p. 1056.
- Stephens, F. J. (See Jambas and Stephens.)
- Stephens, G. A., *et al.* (See La Grotta, F., assignor.)
- Stephens, H. E., Elgin, Ill. Wrench. No. 943,757; Dec. 21; Sp. p. 3720; Gaz. vol. 149; p. 647.
- Stephens, J. E., assignor of one-half to D. W. Barnett, Lindale, Ga. Kitchen-safe. No. 920,095; Apr. 27; Sp. p. 6717; Gaz. vol. 141; p. 1140.
- Stephens, J. M., Lawton, Okla. Sight for firearms. No. 942,946; Dec. 14; Sp. p. 1962; Gaz. vol. 149; p. 341.
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- Stephens, S., Somerville, Mass. Printer's quoin. No. 911,173; Feb. 2; Sp. p. 295; Gaz. vol. 139; p. 52.
- Stephens, S. M., Huntsville, Ala. Combined huller and kraut-cutter. No. 909,958; Jan. 19; Sp. p. 3089; Gaz. vol. 138; p. 571.
- Stephens, W. C., Cornwall, England. Percussive rock-drill. No. 930,430; Aug. 10; Sp. p. 1627; Gaz. vol. 145; p. 294.
- Stephens, W. C., Cornwall, England. Rock-drill. No. 944,750; Dec. 28; Sp. p. 5878; Gaz. vol. 149; p. 1013.
- Stephens, W. M., Philadelphia, Pa., assignor to Railways Surface Contact Supplies Company, Wilmington, Del. Electric-railway system. No. 940,211; Nov. 16; Sp. p. 3914; Gaz. vol. 148; p. 665.
- Stephenson, B. S., Brooklyn, N. Y., assignor to Phono Pneumatic Company. Surgical instrument. No. 911,627; Feb. 9; Sp. p. 1195; Gaz. vol. 139; p. 226.
- Stephenson, D. B., Sierra Madre, Cal. Crank-hanger. No. 911,174; Feb. 2; Sp. p. 296; Gaz. vol. 139; p. 52.
- Stephenson, G. (See Lowe and Stephenson.)
- Stephenson, G. T., Wells, Mich. Surveyor's target. No. 913,069; Feb. 23; Sp. p. 4224; Gaz. vol. 139; p. 764.
- Stephenson, J. W. (See Manning and Stephenson.)
- Stephenson, J. W., Toledo, assignor to National Malleable Castings Company, Cleveland, Ohio. Axle-bearing device for cars. No. 931,658; Aug. 17; Sp. p. 4272; Gaz. vol. 145; p. 729.
- Stephenson, W. H., Bluffton, Ind. Fence-post brace. No. 910,026; Jan. 19; Sp. p. 3211; Gaz. vol. 138; p. 593.
- Stephenson, W. J. (See Blacklock, R. E., assignor.)
- Stepney Spare Motor Wheel. (See Davies, T. M. and W., assignors.)
- Steppe, J. P. (See Sternau, Strassburger, and Steppe.)
- Sterba, E. J., Chicago, Ill., and J. H. Birch, assignors to Indiana Match Company, Crawfordsville, Ind. Match unloading and boxer. No. 933,727; Sept. 7; Sp. p. 1567; Gaz. vol. 146; p. 237.
- Sterba, E. J., Chicago, Ill., and J. H. Birch, Crawfordsville, Ind., assignors to Indiana Match Company, Crawfordsville, Ind. Match-splint machine. No. 944,519; Dec. 28; Sp. p. 5362; Gaz. vol. 149; p. 934.
- Sterling Blower and Pipe Mfg. Co. (See Christoph G. W., assignor.)
- Sterling, C. A. (See Zamboni, L., assignor.)
- Sterling Co. (See Hubbell, C. H., assignor.)
- Sterling Electric Company. (See Fowler, S. B., assignor.)
- Sterling Electric Company. (See Keller, A. K., assignor.)
- Sterling, F. W., U. S. Navy. Parallel-ruler. No. 935,424; Sept. 28; Sp. p. 4917; Gaz. vol. 146; p. 869.
- Sterling, M. H., Bisbee, Ariz. Detachable knife-blade. No. 939,346; Nov. 9; Sp. p. 1979; Gaz. vol. 148; p. 336.

*Alphabetical list of patentees—Continued.*

- Sterling-Meaker Company. (See Gierding, C. E., assignor.)  
 Sterling Seal Company. (See Godman, E. J., assignor.)  
 Sterling, W. J., Portsmouth, Va. Window-blind operator. No. 927,894; July 13; Sp. p. 2487; Gaz. vol. 144; p. 425.  
 Sterling, W. J., Portsmouth, Va. Molding-machine. No. 937,885; Oct. 26; Sp. p. 4765; Gaz. vol. 147; p. 824.  
 Stern, D., Cincinnati, Ohio. Aseptic lamp for dental, medical, or surgical purposes. No. 940,831; Nov. 23; Sp. p. 5299; Gaz. vol. 148; p. 899.  
 Stern, E. (See Klein, J., assignor.)  
 Stern, H. M., Oakland, Cal. Target. No. 913,317; Feb. 23; Sp. p. 4734; Gaz. vol. 139; p. 848.  
 Stern, J., New York, N. Y. Combined umbrella handle and receptacle. No. 921,023; May 11; Sp. p. 1891; Gaz. vol. 142; p. 335.  
 Stern, J., New York, N. Y. Game apparatus. (Reissue.) No. 13,025; Oct. 12; Sp. p. 2987; Gaz. vol. 147; p. 496.  
 Stern, R. (See Kleinberger and Stern.)  
 Sternau & Co., S. (See Nelson, C., assignor.)  
 Sternau & Company, S. (See Sternau and Strassburger, assignors.)  
 Sternau & Company, S. (See Sternau, Strassburger, and Steppe, assignors.)  
 Sternau, S., and L. Strassburger, assignors to S. Sternau & Company, New York, N. Y. Chafing-dish. No. 933,136; Sept. 7; Sp. p. 203; Gaz. vol. 146; p. 34.  
 Sternau, S., L. Strassburger, and J. P. Steppe, assignors to S. Sternau & Company, New York, N. Y. Alcohol-lamp. No. 937,113; Oct. 10; Sp. p. 3131; Gaz. vol. 147; p. 551.  
 Sternberger, S. (See Paradis, A., assignor.)  
 Sterns, J. B. (See Ferguson, W. S., assignor.)  
 Sterrett, F. E., Denver, Colo. Folding box. No. 923,725; June 1; Sp. p. 1341; Gaz. vol. 143; p. 209.  
 Sterrick, H. D., Pittsburg, Pa. Picture-mount. No. 912,329; Feb. 16; Sp. p. 2699; Gaz. vol. 139; p. 493.  
 Stelson, A. H., Quincy, Mass. Device for airing bedclothing. No. 936,827; Oct. 12; Sp. p. 2557; Gaz. vol. 147; p. 427.  
 Stelson, L. B., Bellevue, Wash. Frame. No. 941,894; Nov. 30; Sp. p. 7583; Gaz. vol. 148; p. 1276.  
 Stettina, P. von, Schenectady, N. Y. Horseshoe. No. 938,907; Nov. 2; Sp. p. 1009; Gaz. vol. 148; p. 159.  
 Steuer, F. W., assignor to Baird Company, Plainfield, N. J. Loose-leaf binder. No. 917,972; Apr. 13; Sp. p. 2041; Gaz. vol. 141; p. 371.  
 Stevens, A., Chicago, Ill. Combination step-ladder and ironing-board support. No. 926,363; June 29; Sp. p. 6860; Gaz. vol. 143; p. 1207.  
 Stevens, A. E., Sycamore, Kans. Liquid-fuel burner. No. 943,482; Dec. 14; Sp. p. 3109; Gaz. vol. 149; p. 524.  
 Stevens, B. D. (See Ross, Stevens, and Gates.)  
 Stevens, B. D., assignor to Berlin Machine Works, Beloit, Wis. Multiple-board gage. No. 908,513; Jan. 5; Sp. p. 161; Gaz. vol. 138; p. 29.  
 Stevens, B. D., assignor to Berlin Machine Works, Beloit, Wis. Feed-roll for planers. No. 913,924; Mar. 2; Sp. p. 547; Gaz. vol. 140; p. 88.  
 Stevens, C. A. (See Collins, C. G., assignor.)  
 Stevens, C. E., assignor of one-third to G. W. Loughman and one-third to J. H. Loughman, South Bend, Ind. Adjustable lamp-bracket. No. 936,379; Oct. 12; Sp. p. 1630; Gaz. vol. 147; p. 276.  
 Stevens, C. L. (See Conaway and Stevens.)  
 Stevens, C. N., Chicago, Ill. Tank-car. No. 930,101; Aug. 3; Sp. p. 1013; Gaz. vol. 145; p. 163.  
 Stevens, C. S., Suncook, N. H., assignor to W. H. Stokes, Providence, R. I. Machine for shelling nuts. No. 914,082; Mar. 2; Sp. p. 914; Gaz. vol. 140; p. 144.  
 Stevens, D., Seattle, Wash. Railway-tie. No. 928,480; July 20; Sp. p. 3705; Gaz. vol. 144; p. 652.  
 Stevens, D., and S. L. Thomas, Minneola, Kans. Concrete-mixer. No. 921,480; May 11; Sp. p. 2851; Gaz. vol. 142; p. 490.  
 Stevens-Duryea Company. (See Duryea and Remington, assignors.)  
 Stevens, E. P., Chicago, Ill. Fire-brick arch. No. 929,724; Aug. 3; Sp. p. 183; Gaz. vol. 145; p. 32.  
 Stevens, F., assignor to G. F. Stevens, Philadelphia, Pa. Electric ground-clamp. No. 931,706; Aug. 17; Sp. p. 4401; Gaz. vol. 145; p. 747.  
 Stevens, F. E. (See Gray and Stevens.)  
 Stevens, F. M., assignor to Scovill Manufacturing Company, Waterbury, Conn. Tank-float. No. 924,398; June 8; Sp. p. 2829; Gaz. vol. 143; p. 461.  
 Stevens, G. E., Lynn, Mass., assignor to General Electric Company. Electric broiler. No. 913,579; Feb. 23; Sp. p. 5292; Gaz. vol. 139; p. 937.  
 Stevens, G. E., Lynn, Mass., assignor to General Electric Company. Electric heater. No. 919,489; Apr. 27; Sp. p. 5465; Gaz. vol. 141; p. 939.  
 Stevens, G. E., Lynn, Mass., assignor to General Electric Company. Arc-lamp. No. 928,161; July 13; Sp. p. 2998; Gaz. vol. 144; p. 513.  
 Stevens, G. E., Lynn, Mass., assignor to General Electric Company. Electric heater. No. 942,874; Dec. 7; Sp. p. 1765; Gaz. vol. 149; p. 285.  
 Stevens, G. E., Lynn, Mass., assignor to General Electric Company. Electrically-heated tool. No. 943,483; Dec. 14; Sp. p. 3110; Gaz. vol. 149; p. 524.  
 Stevens, G. F. (See Stevens, F., assignor.)  
 Stevens, G. H. (See Perry, R. W., assignor.)  
 Stevens, G. W., Lynn, Mass. Mold for reinforced-concrete walls. No. 930,102; Aug. 3; Sp. p. 1015; Gaz. vol. 145; p. 164.  
 Stevens, J. D., Chicago, Ill. Fountain shaving-brush. No. 914,526; Mar. 9; Sp. p. 1838; Gaz. vol. 140; p. 313.  
 Stevens, J. A., Newburyport, Mass. Window-ventilator. No. 926,617; June 29; Sp. p. 7320; Gaz. vol. 143; p. 1292.  
 Stevens, J. C., Didsbury, Alberta, Canada. Brush-cutting attachment for mowing-machines. No. 927,612; July 13; Sp. p. 1880; Gaz. vol. 144; p. 332.  
 Stevens, J. F., Port Chester, N. Y. Sweeper. No. 920,209; May 4; Sp. p. 239; Gaz. vol. 142; p. 38.  
 Stevens, J. W., St. Paul, Minn. Carbureter. No. 929,260; July 27; Sp. p. 5301; Gaz. vol. 144; p. 937.  
 Stevens, L. B. (See Schneider, G., assignor.)  
 Stevens, L. P., assignor of one-third to T. J. Lawrence, Los Angeles, Cal. Rotary motor. No. 944,581; Dec. 28; Sp. p. 5507; Gaz. vol. 149; p. 956.  
 Stevens, M. H., assignor of one-half to M. T. Ridgely, Kansas City, Kans. Tool. No. 912,752; Feb. 16; Sp. p. 3630; Gaz. vol. 139; p. 639.  
 Stevens Manufacturing Company. (See Lesser, F., assignor.)  
 Stevens, P. M., Greenwood, Wis. Harness attachment. No. 935,173; Sept. 28; Sp. p. 4426; Gaz. vol. 146; p. 789.  
 Stevens, R. C., St. Paul, Minn. Ruling-machine. No. 927,468; July 6; Sp. p. 1562; Gaz. vol. 144; p. 256.  
 Stevens, R. H., Munhall, Pa., assignor of one-half to P. T. Berg, Stockholm, Sweden. Ladle construction. No. 934,946; Sept. 21; Sp. p. 3964; Gaz. vol. 146; p. 688.  
 Stevens, S. H., Farmersville, Tex. Device for assisting vehicles uphill. No. 936,828; Oct. 12; Sp. p. 2559; Gaz. vol. 147; p. 427.  
 Stevens, T., et al. (See Harvel, S. T., assignor.)  
 Stevens, T. J., Boston, Mass. Truss. No. 920,683; May 4; Sp. p. 1208; Gaz. vol. 142; p. 194.  
 Stevens, W. H. (See Sprague, N. C., assignor.)  
 Stevens, W. H., Greenwood, Miss. Electrically-controlled lock. No. 908,813; Jan. 5; Sp. p. 791; Gaz. vol. 138; p. 124.  
 Stevens, W. H., Lindsay, Ontario, Canada. Cushion-support for buggy-tops. No. 923,907; June 8; Sp. p. 1803; Gaz. vol. 143; p. 300.  
 Stevens, W. S. C. (See Harley, B. G., assignor.)  
 Stevens, W. X. (See Johns and Stevens.)  
 Stevenson, A. (See Bailey, G. E., assignor.)  
 Stevenson, A., Seattle, Wash. Lathe-tool. No. 937,886; Oct. 26; Sp. p. 4770; Gaz. vol. 147; p. 824.  
 Stevenson, B. E. and M. E., Redding, Cal. Axle box and spindle. No. 916,213; Mar. 23; Sp. p. 5196; Gaz. vol. 140; p. 920.  
 Stevenson, E. M., Indianapolis, Ind. Carbureter. No. 910,326; Jan. 19; Sp. p. 3877; Gaz. vol. 138; p. 697.  
 Stevenson, E. W. (See Sznutchko and Stevenson.)  
 Stevenson, H. R., Mooers, N. Y. Broom. No. 925,243; June 15; Sp. p. 4551; Gaz. vol. 143; p. 778.  
 Stevenson, H. T., assignor of one-half to D. J. Gordon, New York, N. Y. Bedstead. No. 912,200; Feb. 9; Sp. p. 2389; Gaz. vol. 139; p. 411.  
 Stevenson, J. S., Detroit, Mich. Tire. No. 934,472; Sept. 21; Sp. p. 3031; Gaz. vol. 146; p. 528.  
 Stevenson, J. W., North Bend, Nebr. Binder. No. 944,388; Dec. 28; Sp. p. 5047; Gaz. vol. 149; p. 888.  
 Stevenson, J. W., assignor to W. Schofield, Riverside, Cal. Ladder for picking fruit, &c. No. 925,051; June 15; Sp. p. 4191; Gaz. vol. 143; p. 713.  
 Stevenson, M. E. (See Stevenson, B. E. and M. E.)  
 Stevenson, T. A., Lansing, Kans. Means for automatically unlocking the doors of public buildings. No. 911,176; Feb. 2; Sp. p. 299; Gaz. vol. 139; p. 53.  
 Stevenson, T. A., Lansing, Kans. Means for automatically unlocking the doors of public buildings. No. 911,177; Feb. 2; Sp. p. 301; Gaz. vol. 139; p. 53.  
 Stevenson, T. A., Lansing, Kans., and I. E. Morgan, Kansas City, Mo. Means for automatically opening the doors of public buildings. No. 911,175; Feb. 2; Sp. p. 298; Gaz. vol. 139; p. 53.  
 Stevenson, W., Springfield, Ohio. Saw-case. No. 925,244; June 15; Sp. p. 4551; Gaz. vol. 143; p. 778.  
 Stevenson, W., Crestline, Ohio. Game apparatus. No. 942,757; Dec. 7; Sp. p. 1494; Gaz. vol. 149; p. 246.  
 Stevenson, W. H., Kilbourn, Wis. Sled-brake. No. 944,520; Dec. 28; Sp. p. 5368; Gaz. vol. 149; p. 935.  
 Stevenson, W. J., Tuscola, Ill. Ironing-board. No. 924,945; June 15; Sp. p. 3962; Gaz. vol. 143; p. 677.  
 Stevenson, W. M., Indian Orchard, Mass. Antislip device. No. 923,456; June 1; Sp. p. 777; Gaz. vol. 143; p. 115.



*Alphabetical list of patentees—Continued.*

- Stevenson, W. M., assignor to Hodges Fiber Carpet Company, Indian Orchard, Mass. Wall-covering. No. 942,019; Nov. 30; Sp. p. 7813; Gaz. vol. 148; p. 1316.
- Stevick, J. C., Freeport, Pa. Flushing-tank. No. 908,900; Jan. 5; Sp. p. 968; Gaz. vol. 138; p. 154.
- Stevison, J., Platteville, Wis. Valve. No. 928,815; July 20; Sp. p. 4366; Gaz. vol. 144; p. 761.
- Steward, C. D., et al. (See Crannell, C. W., assignor.)
- Steward, J. A., Rutland, Vt. Carburetor. No. 913,857; Mar. 2; Sp. p. 376; Gaz. vol. 140; p. 64.
- Stewart, A. (See Stewart, J. S., assignor.)
- Stewart, A., Sedalia, Colo. Corn-harvester. No. 917,677; Apr. 6; Sp. p. 1383; Gaz. vol. 141; p. 244.
- Stewart, A., Denver, Colo. Spool-holder for sewing-machine drawers. No. 930,630; Aug. 10; Sp. p. 2076; Gaz. vol. 145; p. 363.
- Stewart, A., Pittsburg, Pa. Machine for cutting and folding sanitary-shield packages. No. 934,368; Sept. 14; Sp. p. 2816; Gaz. vol. 146; p. 470.
- Stewart, A., Jr. (See Thurston, F. A., assignor.)
- Stewart, A. C., Los Angeles, Cal. Controller for carburetors. No. 916,214; Mar. 23; Sp. p. 5197; Gaz. vol. 140; p. 920.
- Stewart, A. C., Los Angeles, Cal. Carburetor. No. 924,200; June 8; Sp. p. 2426; Gaz. vol. 143; p. 395.
- Stewart, A. C., Reading, assignor of one-fourth to A. H. Roby, Malden, one-fourth to C. H. Cutter, Somerville, and one-fourth to C. P. Andersen, Boston, Mass. Coal-handling apparatus. No. 929,993; Aug. 3; Sp. p. 788; Gaz. vol. 145; p. 126.
- Stewart, A. T. (See Scholz, C. O., assignor.)
- Stewart, A. W., Glasgow, Scotland. Ventilating-louver. No. 911,457; Feb. 2; Sp. p. 827; Gaz. vol. 139; p. 145.
- Stewart, B. F., Chicago, Ill. Igniting apparatus for explosive-engines. No. 940,374; Nov. 16; Sp. p. 4290; Gaz. vol. 148; p. 721.
- Stewart, B. W., et al. (See Frederick, L., assignor.)
- Stewart, C. A., Los Angeles, Cal. Sewing-awl. No. 908,708; Jan. 5; Sp. p. 593; Gaz. vol. 138; p. 92.
- Stewart, C. E., San Francisco, Cal. Boat-releasing apparatus. No. 924,201; June 8; Sp. p. 2423; Gaz. vol. 143; p. 395.
- Stewart, C. F., Norwalk, Ohio. Scoring-machine for trap-shooting. No. 926,907; July 6; Sp. p. 418; Gaz. vol. 144; p. 68.
- Stewart, C. L., Lake Mills, Iowa. Wrench. No. 917,904; Apr. 13; Sp. p. 1916; Gaz. vol. 141; p. 346.
- Stewart, C. P., assignor to National Sugar Company, Los Angeles, Cal. Making sugar. No. 935,942; Oct. 5; Sp. p. 730; Gaz. vol. 147; p. 108.
- Stewart, C. R., Spokane, Wash. Self-adjusting parachute-arrow. No. 915,314; Mar. 16; Sp. p. 3421; Gaz. vol. 140; p. 597.
- Stewart, C. W., McRae, Ark. Halter. No. 915,243; Mar. 16; Sp. p. 3290; Gaz. vol. 140; p. 575.
- Stewart, D., Inverness, Scotland. Manufacture of tanning extracts. No. 909,343; Jan. 12; Sp. p. 1855; Gaz. vol. 138; p. 332.
- Stewart, E., Kansas City, Mo. Wheel. No. 937,969; Oct. 26; Sp. p. 4940; Gaz. vol. 147; p. 852.
- Stewart, E. A. (See Montague and Stewart.)
- Stewart, F., and E. W. Neiswanger, Washington, Iowa. Shoveling-board. No. 944,109; Dec. 21; Sp. p. 4469; Gaz. vol. 149; p. 768.
- Stewart, F. L., Boyne Falls, Mich. Animal-trough. No. 928,560; July 20; Sp. p. 3864; Gaz. vol. 144; p. 676.
- Stewart, F. L., Murrys ville, assignor of one-half to S. E. Gill, Pittsburg, Pa. Utilization of ears of maize. No. 922,822; May 25; Sp. p. 5622; Gaz. vol. 142; p. 985.
- Stewart, F. L., Murrys ville, assignor of one-half to S. E. Gill, Pittsburg, Pa. Utilization of maize-ears for the production of alcohol. No. 923,088; May 25; Sp. p. 6169; Gaz. vol. 142; p. 1070.
- Stewart, G. A., Mantador, N. D. Oven-heat regulator. No. 931,232; Aug. 17; Sp. p. 3408; Gaz. vol. 145; p. 591.
- Stewart, G. H., Los Angeles, Cal. Can-soldering machine. No. 926,618; June 29; Sp. p. 7521; Gaz. vol. 143; p. 1292.
- Stewart, G. H., Los Angeles, Cal. Can-heading machine. No. 936,956; Oct. 12; Sp. p. 2818; Gaz. vol. 147; p. 469.
- Stewart, H. (See Jones and Stewart.)
- Stewart, H. P., Grand Rapids, Mich. Potato-digger. No. 943,325; Dec. 14; Sp. p. 2771; Gaz. vol. 149; p. 468.
- Stewart Iron Works Company. (See Stewart, R. C. and W. A., assignors.)
- Stewart, J., Codnor Park, England, and W. Stewart, Motherwell, Scotland. Fuel-feeder for gas-producers. No. 930,899; Aug. 10; Sp. p. 2634; Gaz. vol. 145; p. 451.
- Stewart, J. H. (See Schenk and Stewart.)
- Stewart, J. H., Bluff City, Tenn. Tie. No. 915,244; Mar. 16; Sp. p. 3291; Gaz. vol. 140; p. 575.
- Stewart, J. H., New York, N. Y. Elevator-door latch. No. 917,182; Apr. 6; Sp. p. 446; Gaz. vol. 141; p. 78.
- Stewart, J. H., assignor to Cement Tile Machinery Company, Waterloo, Iowa. Tile-mold. No. 928,162; July 13; Sp. p. 3001; Gaz. vol. 144; p. 513.
- Stewart, J. H., and J. C. Heinicke, Staunton, Ind. Combined rotary harrow, roller, and cutter. No. 930,323; Aug. 3; Sp. p. 1409; Gaz. vol. 145; p. 234.
- Stewart, J. H., and J. M. Schenk, assignors to Cement Tile Machinery Company, Waterloo, Iowa. Tile-machine. No. 927,895; July 13; Sp. p. 2488; Gaz. vol. 144; p. 425.
- Stewart, J. K., Chicago, Ill. Swivel-joint for speedometer-driving connections. No. 930,431; Aug. 10; Sp. p. 1630; Gaz. vol. 145; p. 295.
- Stewart, J. M. (See Paul and Stewart.)
- Stewart, J. S., assignor to A. Stewart, New York, N. Y. Rosette. No. 910,241; Jan. 19; Sp. p. 3668; Gaz. vol. 138; p. 667.
- Stewart, J. S., assignor to A. Stewart, New York, N. Y. Conduit-receptacle. No. 914,762; Mar. 9; Sp. p. 2336; Gaz. vol. 140; p. 392.
- Stewart, J. S., assignor to A. Stewart, New York, N. Y. Electrical appliance. No. 920,786; May 4; Sp. p. 1404; Gaz. vol. 142; p. 227.
- Stewart, J. S., assignor to A. Stewart, New York, N. Y. Electrical appliance. No. 931,518; Aug. 17; Sp. p. 3988; Gaz. vol. 145; p. 687.
- Stewart, L. B. (See Taylor, J. S., assignor.)
- Stewart, L. N., Agency, Mo. Rule-holder. No. 932,346; Aug. 24; Sp. p. 5743; Gaz. vol. 145; p. 980.
- Stewart, M. L., and F. A. Carr, El Paso, Tex. Lubricating-packing. No. 923,908; June 8; Sp. p. 1803; Gaz. vol. 143; p. 300.
- Stewart, R. (See Kronenberger, F., assignor.)
- Stewart, R. C., Covington, Ky. Hoof-pad. No. 932,593; Aug. 31; Sp. p. 6272; Gaz. vol. 145; p. 1085.
- Stewart, R. C. and W. A., assignors to Stewart Iron Works Company, Covington, Ky. Fence-assembling apparatus. No. 929,045; July 27; Sp. p. 4843; Gaz. vol. 144; p. 866.
- Stewart, R. F., New York, N. Y. Butter-cutting machine. No. 935,425; Sept. 28; Sp. p. 4919; Gaz. vol. 146; p. 869.
- Stewart, R. G., Newburgh, N. Y. Composition for removing dried paint, varnish, and lac. No. 931,519; Aug. 17; Sp. p. 3988; Gaz. vol. 145; p. 687.
- Stewart, R. R., Pittsburg, Pa. Core-agitator. No. 937,554; Oct. 19; Sp. p. 4099; Gaz. vol. 147; p. 697.
- Stewart, R. W. J., assignor to W. Howard and W. P. Moore, Chattanooga, Tenn. Pea-huller. No. 932,510; Aug. 31; Sp. p. 6095; Gaz. vol. 145; p. 1057.
- Stewart, S. B., Jr., Schenectady, N. Y., assignor to General Electric Company. Underrunning current-collector. No. 941,390; Nov. 30; Sp. p. 6500; Gaz. vol. 148; p. 1105.
- Stewart, T. S. (See Stewart, W. R. and T. S.)
- Stewart, W. (See Stewart, J. and W.)
- Stewart, W., Jr., Alamosa, Colo. Swinging gate. No. 916,801; Mar. 30; Sp. p. 6348; Gaz. vol. 140; p. 1134.
- Stewart, W. A. (See Stewart, R. C. and W. A.)
- Stewart, W. C., Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Work-support. No. 940,745; Nov. 23; Sp. p. 5102; Gaz. vol. 148; p. 870.
- Stewart, W. C., Lynn, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Heel and top-lift holder. No. 944,389; Dec. 28; Sp. p. 5049; Gaz. vol. 149; p. 889.
- Stewart, W. C., and W. H. Hooper, Lynn, assignors, by mesne assignments, to T. G. Plant, Boston, Mass. Heel-beading machine. No. 944,294; Dec. 28; Sp. p. 4846; Gaz. vol. 149; p. 855.
- Stewart, W. H., et al. (See Cogswell, J. A., assignor.)
- Stewart, W. H., St. Louis, Mo. Starting device for wagons. No. 908,514; Jan. 5; Sp. p. 163; Gaz. vol. 138; p. 30.
- Stewart, W. H., Kansas City, Kans., assignor of one-fourth to B. H. Barr, Kansas City, Mo. Baling-press. No. 930,998; Aug. 10; Sp. p. 2863; Gaz. vol. 145; p. 483.
- Stewart, W. J., Menard, Ill. Toaster. No. 937,887; Oct. 26; Sp. p. 4771; Gaz. vol. 147; p. 825.
- Stewart, W. J., New York, N. Y. Hat-protector. No. 939,874; Nov. 9; Sp. p. 3129; Gaz. vol. 148; p. 516.
- Stewart, W. R. and T. S., Saltsburg, assignors of one-third to A. S. Braverman, Avonmore, Pa. Tire. No. 942,418; Dec. 7; Sp. p. 804; Gaz. vol. 149; p. 131.
- Steynis, J., New York, N. Y. Apparatus for simultaneously treating liquids and gases chemically active upon each other. No. 924,592; June 8; Sp. p. 3207; Gaz. vol. 143; p. 524.
- Steytler, E. (See Porter, Jenkins, and Steytler.)
- Stiassny, L., New York, N. Y. Light-distributor. No. 911,458; Feb. 2; Sp. p. 828; Gaz. vol. 139; p. 145.
- Stubbs, H., Norwood, Ohio. Rail-clamp. No. 932,186; Aug. 24; Sp. p. 5449; Gaz. vol. 145; p. 927.
- Stice, F. W. and W. M., Ardon, Iowa. Lifting-jack. No. 943,903; Dec. 21; Sp. p. 4028; Gaz. vol. 149; p. 697.
- Stice, W. M. (See Stice, F. W. and W. M.)
- Stickdorn, R., Dusseldorf, Germany. Air-chamber flushing apparatus. No. 918,216; Apr. 13; Sp. p. 2552; Gaz. vol. 141; p. 455.
- Stickdorn, R., Dusseldorf, Germany. Device for preventing the return of waste water into water-supply pipes. No. 926,968; July 6; Sp. p. 543; Gaz. vol. 144; p. 89.
- Stickel, H. C., Star Junction, Pa. Track-fastening. No. 910,027; Jan. 19; Sp. p. 3213; Gaz. vol. 138; p. 593.

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- Stickley, C., assignor to Open Coil Heater and Purifier Company, Indianapolis, Ind. Steam-trap. No. 935,426; Sept. 28; Sp. p. 4922; Gaz. vol. 146; p. 870.
- Stickley, C., assignor to Open Coil Heater and Purifier Company, Indianapolis, Ind. Steam-trap. No. 944,295; Dec. 28; Sp. p. 4850; Gaz. vol. 149; p. 855.
- Stickley, J. W., Norfolk, Va. Track-sanding apparatus. No. 940,375; Nov. 16; Sp. p. 4293; Gaz. vol. 148; p. 721.
- Stickley, M. A., Pine Flats, Pa. Gate-hinge. No. 932,347; Aug. 24; Sp. p. 5744; Gaz. vol. 145; p. 980.
- Stickney, W. A. (See Fetter and Stickley.)
- Stickney, B. C., Elizabeth, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 908,622; Jan. 5; Sp. p. 400; Gaz. vol. 138; p. 65.
- Stickney, B. C., Elizabeth, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 917,809; Apr. 13; Sp. p. 1696; Gaz. vol. 141; p. 314.
- Stickney, B. C., Elizabeth, assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 914,612; Mar. 9; Sp. p. 2006; Gaz. vol. 140; p. 342.
- Stickney, B. C., Elizabeth, assignor, by mesne assignments, to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 937,336; Oct. 19; Sp. p. 3604; Gaz. vol. 147; p. 622.
- Stickney, B. R., Ticonderoga, N. Y., assignor of one-half to J. E. Ralph, Joliet, Ill. Sheet-feeding machine. No. 939,177; Nov. 2; Sp. p. 1555; Gaz. vol. 148; p. 252.
- Stiedinger, E., Fairbury, Ill. Mail-bag catcher and deliverer. No. 914,198; Mar. 2; Sp. p. 1167; Gaz. vol. 140; p. 182.
- Stiefel, R. C., Ellwood City, and J. H. Nicholson, assignors to National Tube Company, Pittsburg, Pa. Apparatus for rolling tubing. No. 923,726; June 1; Sp. p. 1342; Gaz. vol. 143; p. 209.
- Stiege, G. (See Martin and Stiege.)
- Stiehle, G., Memmingen, Germany. Edge-protecting clamp. No. 931,233; Aug. 17; Sp. p. 3409; Gaz. vol. 145; p. 591.
- Stienbarger, R. L. (See Stienbarger, S. A. and R. L.)
- Stienbarger, S. A. and R. L., Augusta, Ill. Telephone-transmitter. No. 909,702; Jan. 12; Sp. p. 2559; Gaz. vol. 138; p. 453.
- Stiening, F. C. (See Macbeth and Stiening.)
- Stiggins, E. A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 931,809; Aug. 24; Sp. p. 4627; Gaz. vol. 145; p. 802.
- Stiggins, E. A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-supporting jack. No. 935,065; Sept. 28; Sp. p. 4206; Gaz. vol. 146; p. 753.
- Stiles, E. S., Riverside, Ill. Cutting blanks. No. 927,293; July 6; Sp. p. 1210; Gaz. vol. 144; p. 199.
- Still, M., Winona, Wash. Pump. No. 922,205; May 18; Sp. p. 4347; Gaz. vol. 142; p. 756.
- Stillman, F. H., New York, N. Y., assignor to Watson-Stillman Company. Testing apparatus. No. 908,623; Jan. 5; Sp. p. 402; Gaz. vol. 138; p. 65.
- Stillman, H. L., Westerly, R. I. Fence-post, telegraph-pole, &c. No. 930,432; Aug. 10; Sp. p. 1632; Gaz. vol. 145; p. 295.
- Stillman, M. M., New York, N. Y. Collar-support. No. 944,521; Dec. 28; Sp. p. 5372; Gaz. vol. 149; p. 935.
- Stillwell, H. A., Woodbury, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Shuttle for holding shells. No. 918,606; Apr. 20; Sp. p. 3359; Gaz. vol. 141; p. 609.
- Stillwell, H. A., Woodbury, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Shell-feeding machine. No. 941,823; Nov. 30; Sp. p. 7434; Gaz. vol. 148; p. 1250.
- Stillwell, L. B. (See Brinkerhoff, F. M., assignor.)
- Stillwell, L. B., Lakewood, N. J. System and device for indicating train manipulation. No. 936,488; Oct. 12; Sp. p. 1885; Gaz. vol. 147; p. 312.
- Stilson Motor Car Company. (See Hollister, C. P., assignor.)
- Stilwell, C. B., Wayne, assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Feeding web material. No. 912,330; Feb. 16; Sp. p. 2701; Gaz. vol. 139; p. 493.
- Stilwell, C. B., Wayne, assignor, by mesne assignments, to J. T. Morris, Philadelphia, Pa. Machine for impressing characters on sheet material. No. 931,158; Aug. 17; Sp. p. 3242; Gaz. vol. 145; p. 565.
- Stimmel, B. L., Hennessey, Okla. Cooling attachment for stock-cars. No. 929,725; Aug. 3; Sp. p. 186; Gaz. vol. 145; p. 32.
- Stimmel, F. C., assignor to Casey-Hedges Company, Chattanooga, Tenn. Top for furnaces. No. 944,296; Dec. 28; Sp. p. 4852; Gaz. vol. 149; p. 855.
- Stimpson, E. B., executor. (See Leahy, A. C.)
- Stimpson, E. B., New York, N. Y., assignor to Edwin B. Stimpson Company. Rivet. No. 922,059; May 18; Sp. p. 4048; Gaz. vol. 142; p. 708.
- Stimpson, E. B., Brooklyn, N. Y., assignor to Edwin B. Stimpson Company. Washer or button feeding attachment for setting-machines. No. 922,640; May 25; Sp. p. 5237; Gaz. vol. 142; p. 926.
- Stimpson, E. B., Brooklyn, N. Y., assignor to Edwin B. Stimpson Company. Tire-protective rivet. No. 925,052; June 15; Sp. p. 4192; Gaz. vol. 143; p. 713.
- Stimpson, E. B., New York, N. Y., assignor to Edwin B. Stimpson Company. Antiskidding device. No. 935,330; Sept. 28; Sp. p. 4734; Gaz. vol. 146; p. 840.
- Stimpson, E. B., New York, N. Y., assignor to Edwin B. Stimpson Company. Rivet. No. 935,331; Sept. 28; Sp. p. 4735; Gaz. vol. 146; p. 840.
- Stimpson, E. B., Brooklyn, N. Y., assignor to Edwin B. Stimpson Company. Tire-protective rivet. No. 935,332; Sept. 28; Sp. p. 4736; Gaz. vol. 146; p. 840.
- Stimpson, E. B., Brooklyn, N. Y., assignor to Edwin B. Stimpson Company. Stud or rivet. No. 940,083; Nov. 16; Sp. p. 3631; Gaz. vol. 148; p. 620.
- Stimpson, E. B., Brooklyn, N. Y., assignor to Edwin B. Stimpson Company. Machine for creasing leather and the like. No. 940,084; Nov. 16; Sp. p. 3632; Gaz. vol. 148; p. 620.
- Stimpson, E. B., Brooklyn, N. Y., assignor to Edwin B. Stimpson Company. Tire-protective rivet. No. 940,085; Nov. 16; Sp. p. 3635; Gaz. vol. 148; p. 620.
- Stimpson, E. S., assignor to Draper Company, Hopedale, Mass. Weft-supplying mechanism for automatic weft-replenishing looms. No. 923,457; June 1; Sp. p. 778; Gaz. vol. 143; p. 115.
- Stimpson, E. S., assignor to Draper Company, Hopedale, Mass. Loom-harness mechanism. No. 929,802; Aug. 3; Sp. p. 370; Gaz. vol. 145; p. 61.
- Stimpson, E. S., assignor to Draper Company, Hopedale, Mass. Automatic weft-replenishing loom. No. 930,631; Aug. 10; Sp. p. 2077; Gaz. vol. 145; p. 363.
- Stimpson, E. S., assignor to Draper Company, Hopedale, Mass. Automatically-threading shuttle. No. 933,497; Sept. 7; Sp. p. 1113; Gaz. vol. 146; p. 159.
- Stimpson, E. S., assignor to Draper Company, Hopedale, Mass. Automatically-threading shuttle. No. 933,728; Sept. 7; Sp. p. 1573; Gaz. vol. 146; p. 238.
- Stimpson, E. S., assignor to Draper Company, Hopedale, Mass. Automatically-threading shuttle. No. 933,729; Sept. 7; Sp. p. 1580; Gaz. vol. 146; p. 239.
- Stimpson, E. S., assignor to Draper Company, Hopedale, Mass. Warp stop-motion for looms. No. 937,888; Oct. 26; Sp. p. 4772; Gaz. vol. 147; p. 825.
- Stimpson, W. F. (See Cope, G. W., assignor.)
- Stimpson, W. F., Detroit, Mich. Scale. No. 939,875; Nov. 9; Sp. p. 3130; Gaz. vol. 148; p. 516.
- Stimpson, W. F., Detroit, Mich. Scale. No. 941,590; Nov. 30; Sp. p. 6913; Gaz. vol. 148; p. 1170.
- Stimpson, W. I. (See Rhoades and Stimpson.)
- Stimson, J. F., assignor of one-half to J. J. Klaber, New York, N. Y. Perpetual calendar. No. 916,051; Mar. 23; Sp. p. 4902; Gaz. vol. 140; p. 868.
- Stine, C. M., Chester, Pa., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Obtaining purified ammonia-gas from ammonia liquors. No. 929,726; Aug. 3; Sp. p. 187; Gaz. vol. 145; p. 33.
- Stine, E. (See Carney and Stine.)
- Stiner, S. C., and R. H. Kehring, McKeesport, Pa. Apparatus for the manufacture of tin or like plates. No. 930,501; Aug. 10; Sp. p. 1766; Gaz. vol. 145; p. 319.
- Stines, F. M., Paulsboro, assignor of one-half to H. H. Lippincott, Riverton, N. J. Valve structure. No. 944,219; Dec. 21; Sp. p. 4675; Gaz. vol. 149; p. 801.
- Stinger, G. A., Cincinnati, Ohio. Cistern-cleaner. No. 917,374; Apr. 6; Sp. p. 847; Gaz. vol. 141; p. 145.
- Stingily, L. M., assignor of one-half to H. B. McGrath, Brookhaven, Miss. Shoe-carton label. No. 933,004; Aug. 31; Sp. p. 7088; Gaz. vol. 145; p. 1220.
- Stinzing, F. C. (See Brown and Stinzing.)
- Stiren, N., Litchfield, Minn. Combination wrench and thread-cutter. No. 914,199; Mar. 2; Sp. p. 1168; Gaz. vol. 140; p. 183.
- Stires, H. O., and L. W. Smith, Trenton, N. J. Horse-releaser. No. 938,721; Nov. 2; Sp. p. 590; Gaz. vol. 148; p. 93.



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- Stirlen, J., and W. Gardiner, assignors, by mesne assignments, to Missouri Electric Storage Battery Company, St. Louis, Mo. Storage battery. No. 926,649; June 29; Sp. p. 7380; Gaz. vol. 143; p. 1302.
- Stirling, J. C., Bakerstown, Pa. Apparatus for removing gases and foul air from mines. No. 932,916; Aug. 31; Sp. p. 6928; Gaz. vol. 145; p. 1190.
- Stirling, R. R., Bayonne, N. J. Machine for packing stuffing-boxes. No. 910,598; Jan. 26; Sp. p. 4460; Gaz. vol. 138; p. 813.
- Stirrup, C. H., *et al.* (See Heissenberger, J., assignor.)
- Stirrup, F. A., *et al.* (See Heissenberger, J., assignor.)
- Sütes, J. G., and F. G. Yates, Evansville, Ind. Chart. No. 911,083; Feb. 2; Sp. p. 117; Gaz. vol. 139; p. 22.
- Stitt, W. R., Belfast, Ireland. Welt-feeler for automatic welt-replenishing looms. No. 922,539; May 25; Sp. p. 5032; Gaz. vol. 142; p. 893.
- Stitzel, H., Zurich, Switzerland. Rotary washing-machine. No. 925,526; June 22; Sp. p. 5088; Gaz. vol. 143; p. 896.
- Stitzer, A. B., Philadelphia, Pa. Current-controlling mechanism for railway-motors. No. 929,338; July 27; Sp. p. 5505; Gaz. vol. 144; p. 965.
- Stitzer, A. B., Philadelphia, Pa. Current-controlling mechanism for railway-motors. No. 929,339; July 27; Sp. p. 5509; Gaz. vol. 144; p. 966.
- Stitzer, A. B., Philadelphia, Pa. Electric car-controlling system. No. 941,391; Nov. 30; Sp. p. 6501; Gaz. vol. 148; p. 1106.
- Sjernerstedt, E. C. M. W., Stockholm, Sweden. Means for attaching shafts to spades or other tools. No. 941,286; Nov. 23; Sp. p. 6275; Gaz. vol. 148; p. 1050.
- Stoa, T. E., La Bell township, Marshall county, S. D. Coupling for threshing-rigs and other purposes. No. 929,046; July 27; Sp. p. 4847; Gaz. vol. 144; p. 866.
- Stock, A., assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Ketone sulfoxylate and making same. No. 909,703; Jan. 12; Sp. p. 2560; Gaz. vol. 138; p. 454.
- Stock, G. J., Darlington, England. Manufacture of steel. No. 933,596; Sept. 7; Sp. p. 1297; Gaz. vol. 146; p. 193.
- Stock, G. J., Darlington, England. Bessemer converter. No. 935,615; Sept. 28; Sp. p. 5324; Gaz. vol. 146; p. 934.
- Stockdon, J. J., Somerville, Mass. Valve. No. 922,060; May 18; Sp. p. 4049; Gaz. vol. 142; p. 708.
- Stöckel, F. C., Copenhagen, Denmark. Bottle-closure. No. 921,908; May 18; Sp. p. 3739; Gaz. vol. 142; p. 659.
- Stockier, A. A., Monroe, Wis. Game-board. No. 910,242; Jan. 19; Sp. p. 3670; Gaz. vol. 138; p. 667.
- Stockier, G., New York, N. Y. Holder. No. 940,086; Nov. 16; Sp. p. 3636; Gaz. vol. 148; p. 620.
- Stockier, L., Knoxville, Tenn., assignor to Myer Bridges Company, Louisville, Ky. Machine for making mop and brush fabrics. No. 913,318; Feb. 23; Sp. p. 4736; Gaz. vol. 139; p. 849.
- Stockhausen, J., Crefeld, Germany. Emulsion and producing the same. No. 931,520; Aug. 17; Sp. p. 3989; Gaz. vol. 145; p. 688.
- Stockholm, F. C., Philadelphia, Pa. Sheet-conveying mechanism for printing-presses. No. 915,632; Mar. 16; Sp. p. 4081; Gaz. vol. 140; p. 705.
- Stocking, B. A., Audubon, Iowa. Ironing-board cabinet. No. 937,014; Oct. 12; Sp. p. 2933; Gaz. vol. 147; p. 488.
- Stocking, E. L., Buffalo, N. Y. Lumber-roller for cars. No. 939,452; Nov. 9; Sp. p. 2235; Gaz. vol. 148; p. 371.
- Stockland, J. K., Whitewater, Wis. Needle-threader. No. 912,915; Feb. 16; Sp. p. 3907; Gaz. vol. 139; p. 688.
- Stocks, H. B., Didsbury, Manchester, and J. R. Webb, Jr., East Cliffe, Dover, assignors to Climax Patents Limited, Manchester, England. Pneumatic hammer. No. 908,515; Jan. 5; Sp. p. 165; Gaz. vol. 138; p. 30.
- Stockstrom, L., assignor to American Stove Company, St. Louis, Mo. Water-heater. No. 914,200; Mar. 2; Sp. p. 1169; Gaz. vol. 140; p. 183.
- Stockton, B. F. (See Lester, J. S., assignor.)
- Stockton, E. E., assignor to E. Ingraham Co., Bristol, Conn. Nickel alarm-clock. No. 936,053; Oct. 5; Sp. p. 963; Gaz. vol. 147; p. 144.
- Stockton, E. E., assignor to E. Ingraham Co., Bristol, Conn. Nickel alarm-clock. No. 936,054; Oct. 5; Sp. p. 964; Gaz. vol. 147; p. 144.
- Stockton, E. E., assignor to E. Ingraham Company, Bristol, Conn. Alarm-clock. No. 929,340; July 27; Sp. p. 5514; Gaz. vol. 144; p. 966.
- Stockton, R. H., assignor to Majestic Manufacturing Company, St. Louis, Mo. Cooking-range. No. 933,498; Sept. 7; Sp. p. 1117; Gaz. vol. 146; p. 160.
- Stockton, T. J., Washington, D. C. Smoker's pipe. No. 935,867; Oct. 5; Sp. p. 573; Gaz. vol. 147; p. 83.
- Stockwell, M. E., assignor to Acme Door and Glass Company, Los Angeles, Cal. Tilting device for chairs. No. 912,505; Feb. 16; Sp. p. 3049; Gaz. vol. 139; p. 551.
- Stockwell, W. S., Athol, Mass. Telescope. No. 926,833; July 6; Sp. p. 268; Gaz. vol. 144; p. 43.
- Stoddard, C. F., Boston, Mass., assignor to American Pneumatic Service Company, Dover, Del. Pneumatic-despatch-tube system. No. 914,083; Mar. 2; Sp. p. 920; Gaz. vol. 140; p. 144.
- Stoddard, C. F., Boston, Mass., assignor to American Pneumatic Service Company, Dover, Del. Pneumatic-despatch-tube apparatus. No. 914,084; Mar. 2; Sp. p. 921; Gaz. vol. 140; p. 144.
- Stoddard, C. F., Boston, Mass., assignor to American Pneumatic Service Company, Dover, Del. Pneumatic-despatch-tube system. No. 923,308; June 1; Sp. p. 460; Gaz. vol. 143; p. 65.
- Stoddard, C. F., Boston, Mass., assignor to American Pneumatic Service Company, Dover, Del. Pneumatic-despatch apparatus. No. 923,458; June 1; Sp. p. 782; Gaz. vol. 143; p. 116.
- Stoddard, C. F., Boston, Mass., assignor to American Pneumatic Service Company, Dover, Del. Pneumatic-despatch-tube system. No. 923,459; June 1; Sp. p. 784; Gaz. vol. 143; p. 116.
- Stoddard, C. F., Boston, Mass., assignor, by mesne assignments, to American Pneumatic Service Company, Dover, Del. Pneumatic-despatch-tube apparatus. No. 944,469; Dec. 28; Sp. p. 5234; Gaz. vol. 149; p. 916.
- Stoddard, E. V., Rochester, N. Y. Directory for commercial buildings and apartment-houses. No. 935,704; Oct. 5; Sp. p. 178; Gaz. vol. 147; p. 28.
- Stoddard, J. H., Los Gatos, Cal. Bowling-alley. No. 919,086; Apr. 20; Sp. p. 4399; Gaz. vol. 141; p. 768.
- Stoddard, W. H., Somerville, Mass. Pipe-coupling. No. 909,959; Jan. 19; Sp. p. 3091; Gaz. vol. 138; p. 571.
- Stoebe, J. C. (See Lancaster, C. P., assignor.)
- Stoeffler, J. F., West Union, Iowa. Draft apparatus. No. 917,375; Apr. 6; Sp. p. 848; Gaz. vol. 141; p. 145.
- Stoelt, J. H., Sebewaing, Mich. Life-boat. No. 919,974; Apr. 27; Sp. p. 6439; Gaz. vol. 141; p. 1100.
- Stoeltling, A. F., Kiel, Wis. Milk-vat. No. 935,943; Oct. 5; Sp. p. 733; Gaz. vol. 147; p. 108.
- Stoever Foundry & Manufacturing Company. (See Treadwell and Astrom, assignors.)
- Stoffel, J. P., Los Angeles, Cal. Door-securer. No. 910,431; Jan. 19; Sp. p. 4088; Gaz. vol. 138; p. 732.
- Stoffels, H. J., Norwood, Ohio. Guide-frame for gas-holders. No. 925,850; June 22; Sp. p. 5799; Gaz. vol. 143; p. 1004.
- Stokely, W. R., St. Augustine, Fla. Car-refrigerator. No. 927,820; July 13; Sp. p. 2826; Gaz. vol. 144; p. 401.
- Stoker, R., Salt Lake City, Utah. Smokeless combustion-furnace. No. 912,201; Feb. 9; Sp. p. 2389; Gaz. vol. 139; p. 412.
- Stokes, J. F. (See Stokes, R., Jr., and J. F.)
- Stokes, R., Jr. (See Young and Stokes.)
- Stokes, R., Jr., Providence, R. I., and J. F. Stokes, Maplewood, Mass. Lamp-extinguisher. No. 921,633; May 11; Sp. p. 3168; Gaz. vol. 142; p. 541.
- Stokes and Smith Company. (See Aspenleiter, J., assignor.)
- Stokes, W. E. D., *et al.* (See Larsson, T., assignor.)
- Stokes, W. H. (See Stevens, C. S., assignor.)
- Stoland, J. F., assignor of one-third to W. J. Stenger, Mohall, N. D. Mechanism for raising and lowering the tubes of grain-drills. No. 915,245; Mar. 16; Sp. p. 3293; Gaz. vol. 140; p. 575.
- Stoldt, J. F., New York, N. Y. Hose-supporter. No. 925,963; June 22; Sp. p. 6020; Gaz. vol. 143; p. 1040.
- Stoll, C. D., Kansas City, Mo. Advertising device. No. 911,915; Feb. 9; Sp. p. 1738; Gaz. vol. 139; p. 321.
- Stoll, J. E. (See Leet and Stoll.)
- Stollberg, C., Toledo, Ohio, assignor to American Can Company, New York, N. Y. Sheet-steel vessel. No. 911,084; Feb. 2; Sp. p. 118; Gaz. vol. 139; p. 22.
- Stollberg, C., Toledo, Ohio, assignor to American Can Company, New York, N. Y. Sheet-steel keg. No. 911,085; Feb. 2; Sp. p. 120; Gaz. vol. 139; p. 23.
- Stollberg, C., Toledo, Ohio, assignor to American Can Company, New York, N. Y. Sheet-steel keg for white lead. No. 918,387; Apr. 13; Sp. p. 2890; Gaz. vol. 141; p. 510.
- Stolle, F. J., Fort Thomas, Ky. Combination-tool. No. 933,860; Sept. 14; Sp. p. 1836; Gaz. vol. 146; p. 303.
- Stolle and Kopke, Firm of. (See Fritzsche, F., assignor.)
- Stoller, J. G., St. Louis, Mo. Freight railway-car. No. 934,578; Sept. 21; Sp. p. 3226; Gaz. vol. 146; p. 563.
- Stollwerck Brothers. (See Anthony, M. O., assignor.)
- Stolper, J., assignor of one-half to L. Rabinowitz, New York, N. Y. Safety-razor. No. 927,183; July 6; Sp. p. 1013; Gaz. vol. 144; p. 164.
- Stoltz, M., assignor to Peerless Vending Machine Company, Pittsburg, Pa. Coin-actuated vending device. No. 910,599; Jan. 26; Sp. p. 4463; Gaz. vol. 138; p. 813.
- Stoltz, M., assignor to Peerless Vending Machine Company, Pittsburg, Pa. Fastening means for coin-actuated vending-machines, &c. No. 910,600; Jan. 26; Sp. p. 4465; Gaz. vol. 138; p. 814.
- Stoltz, M., assignor to Peerless Vending Machine Company, Pittsburg, Pa. Coin-controlled vending-machine. No. 910,738; Jan. 26; Sp. p. 4714; Gaz. vol. 138; p. 857.
- Stoltzfus, E. L., Gap, and I. B. Miller, Paradise, Pa. Dump-car and operating mechanism. No. 928,286; July 20; Sp. p. 3323; Gaz. vol. 144; p. 587.

*Alphabetical list of patentees—Continued.*

- Stolz, B., *et al.*, executors. (See Just, J. A.)
- Stolz, E. H. (See Viggars and Stolz.)
- Stolz, F., and F. Flaecher, Höchst-on-the-Main, Germany, assignors, by mesne assignments, to H. A. Metz & Co. Ortho-dioxydiphenyl-ethanolmetnylam and making same. No. 930,703; Aug. 10; Sp. p. 2222; Gaz. vol. 145; p. 386.
- Stolz, F., and K. Streitwolf, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. 1-para-dialkyl-aminocaryl-2,4-dialkyl-3-oxyethyl-5-pyrazolone. No. 936,380; Oct. 12; Sp. p. 1632; Gaz. vol. 147; p. 277.
- Stombaugh, E., Lima, Ohio. Deflector for stoves. No. 921,481; May 11; Sp. p. 2852; Gaz. vol. 142; p. 491.
- Stombaugh, M. L., Johnstown, Pa. Car-replacer. No. 937,655; Oct. 19; Sp. p. 4270; Gaz. vol. 147; p. 729.
- Stomberg, J., Port Wing, Wis. Toy flying-machine. No. 942,020; Nov. 30; Sp. p. 7814; Gaz. vol. 148; p. 1316.
- Stone, A. C., Providence, R. I. Buckle. No. 909,251; Jan. 12; Sp. p. 1675; Gaz. vol. 138; p. 302.
- Stone, A. F., Jr., Callahan, Cal. Book-holder. No. 932,348; Aug. 24; Sp. p. 5746; Gaz. vol. 145; p. 981.
- Stone, A. H., Kansas City, Mo. Extension-table. No. 923,309; June 1; Sp. p. 462; Gaz. vol. 143; p. 65.
- Stone, A. H., assignor of one-third to S. Stone and one-third to C. Jacobson, Marshalltown, Iowa. Mail-bag crane. No. 936,489; Oct. 12; Sp. p. 1888; Gaz. vol. 147; p. 312.
- Stone, C. A., *et al.* (See MacKaye, J., assignor.)
- Stone, C. A., Cleveland, Ohio. Wire-straightening machine. No. 923,599; June 1; Sp. p. 1093; Gaz. vol. 143; p. 167.
- Stone, C. M., Agawam, assignor, by mesne assignments, to Smith & Wesson, Incorporated, Springfield, Mass. Self-cocking revolver. No. 933,797; Sept. 14; Sp. p. 1696; Gaz. vol. 146; p. 281.
- Stone, C. R. (See Wise, W. D., assignor.)
- Stone, D. B., Springfield, Iowa. Husking device. No. 929,173; July 27; Sp. p. 5114; Gaz. vol. 144; p. 909.
- Stone, E., Chicago, Ill. Cover for ironing-boards. No. 941,430; Nov. 30; Sp. p. 6600; Gaz. vol. 148; p. 1119.
- Stone, E. B., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Padlock. No. 917,810; Apr. 13; Sp. p. 1711; Gaz. vol. 141; p. 315.
- Stone, E. F., Chicago, Ill. Indicating coin-holder for telephone-users. No. 941,824; Nov. 30; Sp. p. 7439; Gaz. vol. 148; p. 1250.
- Stone, E. J., Duluth, Minn. Pile-driver. No. 925,440; June 15; Sp. p. 4915; Gaz. vol. 143; p. 839.
- Stone, F., assignor of one-half to J. R. Martin, Lakewood, Ohio. Machine and process for treating fabric belts. No. 937,726; Oct. 19; Sp. p. 4432; Gaz. vol. 147; p. 752.
- Stone, F. L., *et al.* (See Huntley, S. A., assignor.)
- Stone, H. B., Providence, R. I. Phantom electric circuit. No. 911,774; Feb. 9; Sp. p. 1473; Gaz. vol. 139; p. 275.
- Stone, H. B., Providence, R. I. Composite signaling system. No. 922,206; May 18; Sp. p. 4350; Gaz. vol. 142; p. 756.
- Stone, H. B., Providence, R. I. Telephone system. No. 940,746; Nov. 23; Sp. p. 5105; Gaz. vol. 148; p. 870.
- Stone, J., Cameron, Tex. Sweep-stock. No. 940,905; Nov. 23; Sp. p. 5441; Gaz. vol. 148; p. 922.
- Stone, J. A., Chicago, Ill., assignor to International Harvester Company. Snapping-roller for corn-harvesters. No. 914,465; Mar. 9; Sp. p. 1711; Gaz. vol. 140; p. 293.
- Stone, J. A., Chicago, Ill., assignor to International Harvester Company. Tongue-truck. No. 914,466; Mar. 9; Sp. p. 1712; Gaz. vol. 140; p. 294.
- Stone, J. A., Chicago, Ill., assignor to International Harvester Company. Corn-husking rollers. No. 919,392; Apr. 27; Sp. p. 5222; Gaz. vol. 141; p. 905.
- Stone, J. A., Chicago, Ill., assignor to International Harvester Company. Corn-harvester. No. 920,210; May 4; Sp. p. 242; Gaz. vol. 142; p. 38.
- Stone, J. A., Chicago, Ill., assignor to International Harvester Company. Corn-harvester. No. 925,526; June 22; Sp. p. 5089; Gaz. vol. 143; p. 896.
- Stone, J. M., Newberg, Oreg. Separator. No. 940,212; Nov. 16; Sp. p. 3917; Gaz. vol. 148; p. 665.
- Stone, J. M., assignor of one-half to G. B. Christian, Marion, Ohio. Stone-crusher. No. 921,749; May 18; Sp. p. 3406; Gaz. vol. 142; p. 606.
- Stone, J. N., assignor to Art Metal Construction Company, Jamestown, N. Y. Book-support. No. 935,560; Sept. 28; Sp. p. 5217; Gaz. vol. 146; p. 915.
- Stone, J. S., Cambridge, Mass. Condenser. No. 908,814; Jan. 5; Sp. p. 794; Gaz. vol. 138; p. 125.
- Stone, J. S., Boston, Mass. Space telegraphy. No. 908,815; Jan. 5; Sp. p. 796; Gaz. vol. 138; p. 125.
- Stone, J. S., Cambridge, assignor to Stone Telegraph and Telephone Company, Boston, Mass. Space telegraphy. No. 916,895; Mar. 30; Sp. p. 6524; Gaz. vol. 140; p. 1166.
- Stone, M. L., Lewiston, Me., assignor to Draper Company, Hopedale, Mass. Automatic filling-replenishing loom. No. 912,435; Feb. 16; Sp. p. 2908; Gaz. vol. 139; p. 528.
- Stone, M. L., Lewiston, Me., assignor to Draper Company, Hopedale, Mass. Weft-replenishing loom. No. 923,460; June 1; Sp. p. 785; Gaz. vol. 143; p. 117.
- Stone, M. L., Lewiston, Me., assignor to Draper Company, Hopedale, Mass. Pick-counter for looms. No. 943,049; Dec. 14; Sp. p. 2219; Gaz. vol. 149; p. 377.
- Stone, M. L., Lowell, assignor to Draper Company, Hopedale, Mass. Automatic weft-replenishing loom. No. 921,909; May 18; Sp. p. 3740; Gaz. vol. 142; p. 659.
- Stone, M. L., Lowell, Mass., assignor to Draper Company, Portland, Me. Automatic weft-replenishing mechanism for looms. No. 940,286; Nov. 16; Sp. p. 4073; Gaz. vol. 148; p. 691.
- Stone, N. B., Outlook, Wash. Turpentine-hack. No. 943,050; Dec. 14; Sp. p. 2221; Gaz. vol. 149; p. 377.
- Stone, O. E., Winsted, Conn. Shoe-stretcher. No. 919,087; Apr. 20; Sp. p. 4400; Gaz. vol. 141; p. 769.
- Stone, R. A., Bethlehem, Conn. Watch-pocket. No. 908,709; Jan. 5; Sp. p. 595; Gaz. vol. 138; p. 92.
- Stone, S., *et al.* (See Stone, A. H., assignor.)
- Stone, T. D., assignor to H. L. Judd Company, Wallingford, Conn. Traverse-ring. No. 930,999; Aug. 10; Sp. p. 2865; Gaz. vol. 145; p. 483.
- Stone, T. H., Indian Pass, Fla. Turpentine-apron. No. 944,922; Dec. 28; Sp. p. 6231; Gaz. vol. 149; p. 1071.
- Stone Telegraph and Telephone Company. (See Cabot, S., assignor.)
- Stone Telegraph and Telephone Company. (See Stone, J. S., assignor.)
- Stone, V. N., Quebec, Tenn. Package-tie. No. 912,202; Feb. 9; Sp. p. 2391; Gaz. vol. 139; p. 412.
- Stoner, C., Stony Ridge, Ohio. Movable poultry-roost. No. 922,061; May 18; Sp. p. 4051; Gaz. vol. 142; p. 708.
- Stoner, J. G., Smithsburg, Md. Log-handling device. No. 944,829; Dec. 28; Sp. p. 6040; Gaz. vol. 149; p. 1039.
- Stoop, W. J., Pittsburg, Pa. Metallic cross-tie and rail-fastening. No. 924,399; June 8; Sp. p. 2830; Gaz. vol. 143; p. 461.
- Stoop, W. J., Pittsburg, Pa. Insulated metallic cross-tie. No. 924,400; June 8; Sp. p. 2832; Gaz. vol. 143; p. 462.
- Stoops, G. D., Easton, Md. Vending apparatus. No. 920,498; May 4; Sp. p. 810; Gaz. vol. 142; p. 131.
- Stoops, J. C. (See Lemon and Stoops.)
- Storaasli, O. A., Tacoma, Wash. Metallic tie and rail-fastener. No. 935,868; Oct. 5; Sp. p. 575; Gaz. vol. 147; p. 83.
- Storandt, C. W., Rochester, N. Y. Sliding-door fastener. No. 931,895; Aug. 24; Sp. p. 4800; Gaz. vol. 145; p. 829.
- Storeheat Manufacturing Company. (See Carter, A., assignor.)
- Storer, C. E., Kearney, Nebr. Thresher-concave. No. 934,106; Sept. 14; Sp. p. 2324; Gaz. vol. 146; p. 381.
- Storer, N. W. (See Varney and Storer.)
- Storer, N. W., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for connecting conductors to commutator-brushes. No. 910,243; Jan. 19; Sp. p. 3672; Gaz. vol. 138; p. 667.
- Storer, N. W., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Suspension means for railway-motors. No. 934,473; Sept. 21; Sp. p. 3032; Gaz. vol. 146; p. 529.
- Storer, N. W., and T. Varney, Pittsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Trolley. No. 932,511; Aug. 31; Sp. p. 6097; Gaz. vol. 145; p. 1057.
- Storer, S. B., Syracuse, N. Y. Electric current and voltage regulator. No. 914,892; Mar. 9; Sp. p. 2599; Gaz. vol. 140; p. 434.
- Storer, S. C., and W. N. McClure, Hillsboro, Ohio. Clover-bunching attachment for mowing-machines. No. 921,305; May 11; Sp. p. 2479; Gaz. vol. 142; p. 431.
- Storer, W. M., Anderson, Mo. Hat-fastener. No. 919,975; Apr. 27; Sp. p. 6442; Gaz. vol. 141; p. 1101.
- Storey, A., Warren, Mass. Waste-pipe valve. No. 925,245; June 15; Sp. p. 4553; Gaz. vol. 143; p. 778.
- Storey, E. A., Philadelphia, Pa. Non-puncturable pneumatic tire. No. 910,094; Jan. 19; Sp. p. 3346; Gaz. vol. 138; p. 616.
- Stork Folding Crib Company. (See Linn, J. A., assignor.)
- Storlie, O. O., assignor of one-half to C. O. Doxrud, Nelsonville, Wis. Slotting device. No. 914,613; Mar. 9; Sp. p. 2015; Gaz. vol. 140; p. 343.
- Storm, M. W. (See Hamilton, E. D., assignor.)
- Storms, G. W., Louisville, Ky. Coupling-ring for corrugated culverts. No. 930,103; Aug. 3; Sp. p. 1016; Gaz. vol. 145; p. 164.
- Storms, N. E., Minneapolis, Minn. Removable furnace-oven. No. 928,816; July 20; Sp. p. 4368; Gaz. vol. 144; p. 761.
- Storms, M. E., Henning, Minn. Bed-pan. No. 920,211; May 4; Sp. p. 244; Gaz. vol. 142; p. 39.
- Storms, W. J., Chicago, Ill. Spring-wheel. No. 919,490; Apr. 27; Sp. p. 5466; Gaz. vol. 141; p. 939.
- Story, H. F., Highland, Cal. Pump-head. No. 912,984; Feb. 16; Sp. p. 4048; Gaz. vol. 139; p. 710.
- Story, H. H., Butte, Nebr. Egg-packing machine. No. 915,501; Mar. 16; Sp. p. 3791; Gaz. vol. 140; p. 659.



*Alphabetical list of patentees—Continued.*

- Story, H. L., Von Ormy, Tex. Cotton-gin attachment. No. 918,710; Apr. 20; Sp. p. 3649; Gaz. vol. 141; p. 647.
- Story, L. L., East Fairfield, Vt. Milking-machine. No. 927,896; July 13; Sp. p. 2490; Gaz. vol. 144; p. 425.
- Story, R. K., Brooklyn, N. Y. Mold-flask. No. 917,678; Apr. 6; Sp. p. 1385; Gaz. vol. 141; p. 244.
- Story, S. H., Naples, Tex. Thill-support. No. 911,775; Feb. 9; Sp. p. 1476; Gaz. vol. 139; p. 275.
- Story, W. A., and W. A. Hall, Chillicothe, Ohio. Lifting-jack-supporting device. No. 929,047; July 27; Sp. p. 4848; Gaz. vol. 144; p. 867.
- Stott, D. M., assignor of one-half to H. E. Argo, Chicago, Ill. Valve. No. 909,960; Jan. 19; Sp. p. 3062; Gaz. vol. 138; p. 571.
- Stott, D. M., assignor of one-half to H. E. Argo, Chicago, Ill. Heating system. No. 932,349; Aug. 24; Sp. p. 5747; Gaz. vol. 145; p. 981.
- Stott, J. N., Manchester, England. Skate. No. 933,929; Sept. 14; Sp. p. 1969; Gaz. vol. 146; p. 324.
- Stotts, E. S., Marion, Iowa. Drain-valve. No. 943,577; Dec. 14; Sp. p. 3296; Gaz. vol. 149; p. 556.
- Stotz, G. A., Newark, N. J. Combined mold and casting device. No. 920,684; May 4; Sp. p. 1209; Gaz. vol. 142; p. 194.
- Stouder, H. R., Newton, Iowa. Coin-controlled mechanism. No. 937,337; Oct. 19; Sp. p. 3626; Gaz. vol. 147; p. 623.
- Stouffer, A., Waynesboro, Pa. Roller. No. 924,506; June 8; Sp. p. 3031; Gaz. vol. 143; p. 496.
- Stoup, H. L., Ypsilanti, Mich. Machine for attaching tires to wheels. No. 930,502; Aug. 10; Sp. p. 1769; Gaz. vol. 145; p. 319.
- Stout, A. G., South Haven, Mich. Spraying apparatus. No. 938,084; Oct. 26; Sp. p. 5200; Gaz. vol. 147; p. 891.
- Stout, C., Pomona, Cal. Combined clamp and stretcher. No. 926,030; June 22; Sp. p. 6153; Gaz. vol. 143; p. 1062.
- Stout, R. P. (See Meigs and Stout.)
- Stover, D. S., Amsterdam, N. Y. Cutting and punching machine. No. 930,433; Aug. 10; Sp. p. 1632; Gaz. vol. 145; p. 295.
- Stover, E. C., assignor to Trenton Potteries Company, Trenton, N. J. Joint for sanitary fixtures. No. 912,753; Feb. 16; Sp. p. 3631; Gaz. vol. 139; p. 639.
- Stover, E. C., assignor to Trenton Potteries Company, Trenton, N. J. Water-closet seat. No. 912,754; Feb. 16; Sp. p. 3633; Gaz. vol. 139; p. 640.
- Stover, E. C., assignor to Trenton Potteries Company, Trenton, N. J. Article of earthenware. No. 943,484; Dec. 14; Sp. p. 3112; Gaz. vol. 149; p. 524.
- Stover-Glaze Manufacturing Company. (See Stover, W. M., assignor.)
- Stover Manufacturing Company. (See McCulloch, H. G., assignor.)
- Stover, P., and L. Chambers, Visalia, Cal. Seal-lock. No. 927,294; July 6; Sp. p. 1212; Gaz. vol. 144; p. 199.
- Stover, W. M., Oakland, assignor to Stover-Glaze Manufacturing Company, San Francisco, Cal. Concentrator. No. 926,031; June 22; Sp. p. 6154; Gaz. vol. 143; p. 1063.
- Stow, J. D., assignor of one-half to R. Thompson, Springfield, Mass. Feed for headers. No. 929,892; Aug. 3; Sp. p. 584; Gaz. vol. 145; p. 92.
- Stow, J. D., assignor of one-half to R. Thompson, Springfield, Mass. Binder. No. 929,893; Aug. 3; Sp. p. 588; Gaz. vol. 145; p. 92.
- Stowall, J. E. (See Zimmer, J. F., assignor.)
- Stowe, L., Knoxville, Tenn. Ironing-board. No. 943,485; Dec. 14; Sp. p. 3113; Gaz. vol. 149; p. 525.
- Stowe, M. F., assignor to Coldwater Specialty Manufacturing Company, Coldwater, Mich. Antislipping device. No. 924,702; June 15; Sp. p. 3460; Gaz. vol. 143; p. 595.
- Stowe, M. F., assignor to Coldwater Specialty Manufacturing Company, Coldwater, Mich. Shingle carrier and support. No. 926,364; June 29; Sp. p. 6862; Gaz. vol. 143; p. 1207.
- Stowe, S. T. (See Starnes, G. R., assignor.)
- Stowell, H. F., Rochester, N. Y. Advertising apparatus. No. 935,427; Sept. 28; Sp. p. 4924; Gaz. vol. 146; p. 870.
- Stowell, W. G., assignor to W. G. Stowell Co., Dayton, Ohio. Hydraulic motor. No. 944,220; Dec. 21; Sp. p. 4677; Gaz. vol. 149; p. 802.
- Stowell, W. G., assignor to W. G. Stowell Co., Dayton, Ohio. Water-motor. No. 944,221; Dec. 21; Sp. p. 4679; Gaz. vol. 149; p. 802.
- Strachan & Henshaw. (See Duerden, S., assignor.)
- Strachan, W., and N. H. Campbell, St. Thomas, N. D. Jar-cover. No. 924,401; June 8; Sp. p. 2834; Gaz. vol. 143; p. 462.
- Stradling, H. M., Indianapolis, Ind. Coal-chute. No. 926,032; June 22; Sp. p. 6156; Gaz. vol. 143; p. 1063.
- Stragiotti, P., and J. Vercellini, Hurley, Wis. Music-leaf turner. No. 938,085; Oct. 26; Sp. p. 5202; Gaz. vol. 147; p. 891.
- Strahlmann, E. (See Mayer and Strahlmann.)
- Straight, A. W., Chicago, Ill. Camera. No. 927,897; July 13; Sp. p. 2496; Gaz. vol. 144; p. 426.
- Straight, A. W., assignor of one-half to Turner Brass Works, Chicago, Ill. Alcohol-torch. No. 911,086; Feb. 2; Sp. p. 121; Gaz. vol. 139; p. 23.
- Straight, A. W., Chicago, assignor of one-half to Turner Brass Works, Sycamore, Ill. Hydrocarbon-burner. No. 912,506; Feb. 16; Sp. p. 3051; Gaz. vol. 139; p. 552.
- Strain, J. (See Borrowdale and Strain.)
- Strain, J., Chicago, Ill. Floor construction for refrigerator-cars. No. 928,406; July 20; Sp. p. 3556; Gaz. vol. 144; p. 629.
- Strait, H. H., St. Louis, Mo. Paper-feed guide for platen-presses. No. 910,155; Jan. 19; Sp. p. 3466; Gaz. vol. 138; p. 634.
- Strait, W., Eau Claire, Wis. Potato-digger. No. 910,601; Jan. 26; Sp. p. 4466; Gaz. vol. 138; p. 814.
- Straitsville Impervious Brick Co. (See Martin, J. D., assignor.)
- Strance, G., R. S. Bull, and W. P. Norris, Sistersville, W. Va. Stuffing-box. No. 933,400; Sept. 7; Sp. p. 825; Gaz. vol. 146; p. 128.
- Strance, G., R. S. Bull, and W. P. Norris, Sistersville, W. Va. Packing for stuffing-boxes. No. 943,169; Dec. 14; Sp. p. 2451; Gaz. vol. 149; p. 416.
- Strand, A., Wellington, Colo. Candy-tray. No. 937,656; Oct. 19; Sp. p. 4272; Gaz. vol. 147; p. 729.
- Strand, J. A., *et al.* (See Logar, M., assignor.)
- Strand, M. A., Minneapolis, Minn. Device for forming oar-blades and the like. No. 925,246; June 15; Sp. p. 4554; Gaz. vol. 143; p. 778.
- Strandt, G., and A. H. Niemann, Milwaukee, Wis. Milk-bottling machine. No. 933,678; Sept. 7; Sp. p. 1453; Gaz. vol. 146; p. 219.
- Strang, W. B. (See Nilson, L. G., assignor.)
- Stransky & Co. (See Hamburger, E. W., assignor.)
- Stranzenbach, H., assignor to Excelsior Fly Catcher Mfg. Co., New York, N. Y. Insect-catcher. No. 935,428; Sept. 28; Sp. p. 4925; Gaz. vol. 146; p. 879.
- Strasburger, F. C. H., assignor to Bottlers Machinery Manufacturing Company, Chicago, Ill. Filling-machine. No. 940,624; Nov. 16; Sp. p. 4819; Gaz. vol. 148; p. 803.
- Strasburger, L., and L. Granges, Paris, France. Machine for cleansing bottles and similar vessels. No. 940,948; Nov. 23; Sp. p. 5534; Gaz. vol. 148; p. 937.
- Strassburger, L. (See Sternau and Strassburger.)
- Strassburger, L. (See Sternau, Strassburger, and Steppe.)
- Strassel, E., New York, N. Y. Card-file. No. 917,679; Apr. 6; Sp. p. 1386; Gaz. vol. 141; p. 245.
- Strassel, J. S., Louisville, Ky. Collapsible crate or box. No. 929,894; Aug. 3; Sp. p. 589; Gaz. vol. 145; p. 92.
- Straszer, W. C., Butte, Mont. Starching-machine. No. 918,481; Apr. 13; Sp. p. 3076; Gaz. vol. 141; p. 540.
- Strater, T. G., West Tisbury, Mass. Adjustable frame for assembling picture-puzzles. No. 932,512; Aug. 31; Sp. p. 6099; Gaz. vol. 145; p. 1058.
- Stratford Bridge and Iron Works Company. (See Cowan, W. W., assignor.)
- Strathmann, W., Baltimore, Md. Can. No. 924,507; June 8; Sp. p. 3032; Gaz. vol. 143; p. 496.
- Strathy, W., Monterey, Va. Trip car-standard. No. 913,925; Mar. 2; Sp. p. 549; Gaz. vol. 140; p. 83.
- Stratton, C. H., Muncie, Ind. Convertible vehicle. No. 921,177; May 11; Sp. p. 2205; Gaz. vol. 142; p. 389.
- Stratton, C. M., Toronto, Ohio. Sewer-pipe. No. 909,344; Jan. 12; Sp. p. 1857; Gaz. vol. 138; p. 333.
- Stratton, E. F., New York, N. Y. Shoe-polishing machine. No. 928,341; July 20; Sp. p. 3439; Gaz. vol. 144; p. 606.
- Stratton, E. F., assignor of one-half to H. B. Oakman, New York, N. Y. Shoe-polishing device. No. 931,000; Aug. 10; Sp. p. 2866; Gaz. vol. 145; p. 483.
- Stratton, G. M., Carthage, S. D. Rocker for chairs. No. 927,898; July 13; Sp. p. 2498; Gaz. vol. 144; p. 426.
- Stratton, H. F., assignor to Electric Controller and Manufacturing Company, Cleveland, Ohio. Automatic accelerating-controller. No. 915,246; Mar. 16; Sp. p. 3295; Gaz. vol. 140; p. 576.
- Stratton, H. F., assignor to Electric Controller and Manufacturing Company, Cleveland, Ohio. System of motor control. No. 922,540; May 25; Sp. p. 5034; Gaz. vol. 142; p. 894.
- Stratton, J., and E. A. Claremont, Old Trafford, Manchester, England. Apparatus for drawing wire. No. 931,971; Aug. 24; Sp. p. 4990; Gaz. vol. 145; p. 855.
- Straub, C. L., Milwaukee, Wis., assignor to Power and Mining Machinery Company, New York, N. Y. Gas-producer. No. 909,345; Jan. 12; Sp. p. 1858; Gaz. vol. 138; p. 333.
- Straub, J., and H. Steinhilber, Louisville, Ky. Apparatus for transporting cold and hot victuals. No. 909,252; Jan. 12; Sp. p. 1676; Gaz. vol. 138; p. 302.
- Straubel, R., assignor to Firm of C. Zeiss, Jena, Germany. Binocular telescope with double hinge. No. 911,776; Feb. 9; Sp. p. 1477; Gaz. vol. 139; p. 275.
- Straubel, R., and M. von Rohr, assignors to Firm of C. Zeiss, Jena, Germany. Deformed collective lens. No. 934,579; Sept. 21; Sp. p. 3227; Gaz. vol. 146; p. 563.
- Straubhaar, A., New York, N. Y. Window. No. 932,187; Aug. 24; Sp. p. 5451; Gaz. vol. 145; p. 928.
- Straus, H., assignor to Boucher Manufacturing Company, New York, N. Y. Toilet article. No. 914,682; Mar. 9; Sp. p. 2168; Gaz. vol. 140; p. 364.

*Alphabetical list of patentees—Continued.*

- Strauss, A., Kiew, Russia. Providing water-tight vertical layers in dams, dikes, &c., and in simultaneously compressing portions of ground adjacent thereto. No. 922,207; May 18; Sp. p. 4352; Gaz. vol. 142; p. 757.
- Strauss, E. H., assignor to American Commerce & Specialty Co., Chicago, Ill. Friction and inertia counteracting device for scales. No. 939,347; Nov. 9; Sp. p. 1981; Gaz. vol. 148; p. 337.
- Strauss, E. L. (See Mortimer and Strauss.)
- Strauss, J. B., Chicago, Ill. Observation-railway for parks, &c. No. 921,750; May 18; Sp. p. 3408; Gaz. vol. 142; p. 606.
- Strauss, J. B., Chicago, Ill. Concrete car. No. 925,964; June 22; Sp. p. 6021; Gaz. vol. 143; p. 1040.
- Strauss, J. B., Chicago, Ill. Sound-destroying device for railways, &c. No. 937,338; Oct. 19; Sp. p. 3631; Gaz. vol. 147; p. 623.
- Strauss, S., Chicago, Ill. Non-refillable dispensing-can. No. 922,062; May 18; Sp. p. 4052; Gaz. vol. 142; p. 709.
- Straw, E. E., Marshfield, Oreg. Tank. No. 941,895; Nov. 30; Sp. p. 7584; Gaz. vol. 148; p. 1276.
- Straw, H. F., Manchester, N. H. Apparatus for moistening filling. No. 910,602; Jan. 26; Sp. p. 4468; Gaz. vol. 138; p. 815.
- Straw, W. P. (See Foster, G. M., assignor.)
- Strawn, A. L., and F. C. Spencer, Monte Vista, Colo. Combination tent-bag. No. 921,751; May 18; Sp. p. 3410; Gaz. vol. 142; p. 607.
- Strawn, C. F., Philadelphia, Pa. Steering-gear. No. 923,210; June 1; Sp. p. 188; Gaz. vol. 143; p. 31.
- Strawn, J. S., and R. W. Davies, Avonmore, Pa. Wheel. No. 920,685; May 4; Sp. p. 1212; Gaz. vol. 142; p. 195.
- Strayer, R. F. (See Mack, C. F., assignor.)
- Stream, S. A. (See Clarke and Stream.)
- Streator Metal Stamping Company. (See Halladay, L. P., assignor.)
- Streckel, F., assignor to Eisenwerk (vorm. Nagel & Kaemp) Aktiengesellschaft, Hamburg, Germany. Paddy-separator. No. 932,594; Aug. 31; Sp. p. 6273; Gaz. vol. 145; p. 1085.
- Strecker-Aufermann, H., Munich, Germany. Preparing printing-plates by means of electrolytic etching. No. 909,831; Jan. 12; Sp. p. 2804; Gaz. vol. 138; p. 494.
- Strecker Bros. Company. (See Mosher, J., assignor.)
- Streed, E. W. (See Larson, P. H., assignor.)
- Streed, F. O., Minneapolis, Minn. Device for connecting marble slabs. No. 924,703; June 15; Sp. p. 3461; Gaz. vol. 143; p. 595.
- Streed, F. O., and L. J. Larson, Minneapolis, Minn., assignors of three-fourths to said Streed and one-fourth to said Larson. Machine for polishing stone and concrete floors. No. 924,704; June 15; Sp. p. 3462; Gaz. vol. 143; p. 596.
- Street, J. M. (See McMasters, A. L., assignor.)
- Streeter, A. L., Chicago, Ill. Brake-shoe. No. 909,704; Jan. 12; Sp. p. 2561; Gaz. vol. 138; p. 454.
- Strehlau, R., Westend, near Berlin, Germany. Lifting and driving propeller. No. 935,130; Sept. 28; Sp. p. 4348; Gaz. vol. 146; p. 775.
- Strehli, J. W., Cincinnati, Ohio. Barrel. No. 923,461; June 1; Sp. p. 786; Gaz. vol. 143; p. 117.
- Strehlow, O. E., Chicago, Ill. Skip. No. 935,282; Sept. 28; Sp. p. 4638; Gaz. vol. 146; p. 824.
- Strehlow, O. E., Chicago, Ill. Cable-thimble. No. 938,086; Oct. 26; Sp. p. 5203; Gaz. vol. 147; p. 891.
- Streib, J. F., Avalon, assignor to Pressed Steel Car Company, Pittsburg, Pa. Passenger-car understructure. No. 911,343; Feb. 2; Sp. p. 624; Gaz. vol. 139; p. 107.
- Streib, J. F., Avalon, assignor to Pressed Steel Car Company, Pittsburg, Pa. Car-door-operating mechanism. No. 930,434; Aug. 10; Sp. p. 1637; Gaz. vol. 145; p. 296.
- Streib, J. F., Avalon, assignor to Pressed Steel Car Company, Pittsburg, Pa. Car construction. No. 942,224; Dec. 7; Sp. p. 422; Gaz. vol. 149; p. 65.
- Streich, F., assignor, by mesne assignments, to Champion Machinery Company, Joliet, Ill. Long-loaf dough-molding machine. No. 920,096; Apr. 27; Sp. p. 6718; Gaz. vol. 141; p. 1140.
- Streich, G., Oshkosh, Wis. Draft attachment for vehicle-gears. No. 923,727; June 1; Sp. p. 1345; Gaz. vol. 143; p. 209.
- Streich, G., Oshkosh, Wis. Lumber-cart. No. 937,657; Oct. 19; Sp. p. 4274; Gaz. vol. 147; p. 730.
- Streich, J. H., Oshkosh, Wis. Feed-water heater. No. 936,184; Oct. 5; Sp. p. 1228; Gaz. vol. 147; p. 185.
- Streiffert, G. (See Fagerström, Johansson, and Streiffert.)
- Streit, L., New York, N. Y. Loose-leaf binder. No. 928,342; July 20; Sp. p. 3441; Gaz. vol. 144; p. 606.
- Streitwolf, K. (See Stolz and Streitwolf.)
- Strelczyk, M., Newark, N. J. Cock. No. 932,188; Aug. 24; Sp. p. 5452; Gaz. vol. 145; p. 928.
- Strelch, E., Shelbyville, Ill. Hoisting-hook. No. 910,739; Jan. 26; Sp. p. 4717; Gaz. vol. 138; p. 858.
- Strettles, S., Manchester, England. Machine for use in drawing patterns in molding. No. 942,419; Dec. 7; Sp. p. 805; Gaz. vol. 149; p. 131.
- Stribbling, F. E., Matagorda, Tex. Drop-propeller for boats. No. 931,159; Aug. 17; Sp. p. 3247; Gaz. vol. 145; p. 566.
- Strickland, J. H., Coffeyville, Kans., assignor of one-half to C. H. Ferry, Chicago, Ill. Car-coupling. No. 912,436; Feb. 16; Sp. p. 2913; Gaz. vol. 139; p. 528.
- Strickler, D., Columbiana, Ohio, assignor to Columbiana Pump Co. Pump. No. 929,048; July 27; Sp. p. 4850; Gaz. vol. 144; p. 867.
- Strickler, E. H., New York, N. Y. Making phosphoric acid and glauber salt. No. 917,502; Apr. 6; Sp. p. 1067; Gaz. vol. 141; p. 187.
- Strickler, E. H., White Plains, assignor to General Chemical Company, New York, N. Y. Sodium sulfid. No. 915,633; Mar. 16; Sp. p. 4083; Gaz. vol. 140; p. 705.
- Strickler, F. B., Janesville, Wis. Hay-carrier. No. 930,572; Aug. 10; Sp. p. 1955; Gaz. vol. 145; p. 344.
- Strickler, F. R. (See Rosenstengel, F. N., assignor.)
- Strickler, J. C. and W. C., San Francisco, Cal. Internal-combustion engine. No. 913,070; Feb. 23; Sp. p. 4225; Gaz. vol. 139; p. 764.
- Strickler, W. C. (See Strickler, J. C. and W. C.)
- Strid, S. J., assignor of three-fourths to R. G. Coburn, Chicago, Ill. Brake-head. No. 926,299; June 29; Sp. p. 6729; Gaz. vol. 143; p. 1186.
- Strimban, L. (See Friedman, Blumenfeld, and Strimban.)
- Stringer, L., Bogue Chitto, Miss. Railway-tie. No. 929,895; Aug. 3; Sp. p. 591; Gaz. vol. 145; p. 93.
- Stringer, T. H. and W. H., Leicester, England. Machine for attaching buttons, buckles, or like ornaments to boots, shoes, gaiters, and kindred articles. No. 919,791; Apr. 27; Sp. p. 6048; Gaz. vol. 141; p. 1040.
- Stringer, T. H. and W. H., Leicester, England. Machine for attaching buttons, buckles, and like ornaments to boots, shoes, gaiters, and kindred articles. No. 921,306; May 11; Sp. p. 2481; Gaz. vol. 142; p. 431.
- Stringer, W. H. (See Stringer, T. H. and W. H.)
- Stringham, J. H., Jersey City, N. J., assignor to Westinghouse Machine Company. Gas-generating apparatus. No. 935,283; Sept. 28; Sp. p. 4639; Gaz. vol. 146; p. 824.
- Stringham, J. H., Jersey City, N. J., assignor, by mesne assignments, to Westinghouse Machine Company. Gas-generating apparatus. No. 935,429; Sept. 28; Sp. p. 4927; Gaz. vol. 146; p. 879.
- Stripe, H., Milan, Kans. Cultivator. No. 937,268; Oct. 19; Sp. p. 3482; Gaz. vol. 147; p. 602.
- Strite, C. P., Cedar Rapids, Iowa. Variable-speed pulley-drive. No. 929,049; July 27; Sp. p. 4851; Gaz. vol. 144; p. 867.
- Strnad, C. F., Narka, Kans. Draft attachment for plows. No. 936,829; Oct. 12; Sp. p. 2561; Gaz. vol. 147; p. 428.
- Strobel, C., Gratz, Austria-Hungary. Manufacture of brushes. No. 917,811; Apr. 13; Sp. p. 1712; Gaz. vol. 141; p. 315.
- Strobel, J. J., assignor of one-half to E. Spinner, Meridian, Miss. Annunciator for railways. No. 944,390; Dec. 28; Sp. p. 5054; Gaz. vol. 149; p. 889.
- Strohbach, E., Dresden, Germany. Making iron-free alum. No. 932,067; Aug. 24; Sp. p. 5203; Gaz. vol. 145; p. 888.
- Strohkorb, C., Berlin, Germany. Carriage foot-brake. No. 943,104; Dec. 14; Sp. p. 2330; Gaz. vol. 149; p. 395.
- Strohl, A. L., Hardin, Mo. Snap-hook. No. 935,174; Sept. 28; Sp. p. 4426; Gaz. vol. 146; p. 789.
- Strohm, S. D., assignor of one-eighth to J. F. Krayner, Philadelphia, Pa. Railway signaling. No. 916,896; Mar. 30; Sp. p. 6527; Gaz. vol. 140; p. 1166.
- Strohn, E. W., Buffalo, N. Y. Vacuum drying apparatus. No. 921,307; May 11; Sp. p. 2483; Gaz. vol. 142; p. 431.
- Strohn, E. W., Buffalo, N. Y. Apparatus for impregnating fabrics and other materials. No. 937,889; Oct. 26; Sp. p. 4775; Gaz. vol. 147; p. 825.
- Strom, A. A., Austin, assignor to Pettibone, Mulliken & Co., Chicago, Ill. Switch-stand. No. 934,851; Sept. 21; Sp. p. 3777; Gaz. vol. 146; p. 655.
- Strom, A. A., Austin, assignor to Pettibone, Mulliken & Company, Chicago, Ill. Switch-stand. No. 934,852; Sept. 21; Sp. p. 3779; Gaz. vol. 146; p. 655.
- Strom, A. A., Austin, assignor to Pettibone, Mulliken & Co., Chicago, Ill. Switch-lever lock. No. 934,853; Sept. 21; Sp. p. 3780; Gaz. vol. 146; p. 655.
- Strom, E. N., assignor to Pettibone, Mulliken & Company, Chicago, Ill. Switch-stand. No. 913,926; Mar. 2; Sp. p. 552; Gaz. vol. 140; p. 89.
- Strom, H., Hillsboro, N. D. Hose connection. No. 928,817; July 20; Sp. p. 4370; Gaz. vol. 144; p. 762.
- Strom, L. A., Webster, S. D. Package-tie. No. 914,614; Mar. 9; Sp. p. 2017; Gaz. vol. 140; p. 343.
- Stromberg, A. (See Birsfield, J. A., assignor.)
- Stromberg, A. (See Coulter, H. M., assignor.)
- Stromberg, A., Chicago, Ill. Telephone-receiver. No. 910,603; Jan. 26; Sp. p. 4471; Gaz. vol. 138; p. 815.
- Stromberg, B. P., *et al.* (See Peterson, A., assignor.)
- Stromberg Carlson Telephone Manufacturing Company. (See Conner, M. S., assignor.)



*Alphabetical list of patentees—Continued.*

- Stromberg-Carlson Telephone Manufacturing Company. (See Leich, O. M., assignor.)  
 Stromberg-Carlson Telephone Manufacturing Company. (See Webster, H. G., assignor.)  
 Stromberg Electric Mfg. Co. (See Perry, C. S., assignor.)  
 Stromberg Electric Mfg. Co. (See Perry, G. E., assignor.)  
 Stromberg Motor Devices Company. (See Goldberg, J. S., assignor.)  
 Strömberg, P. P., assignor of one-half to O. Ostby, Gjesaasen, Norway. Adjustable spanner. No. 940,625; Nov. 16; Sp. p. 4824; Gaz. vol. 148; p. 804.  
 Strong, B. B. (See Strong, B. G.)  
 Strong, B. G., deceased; B. B. Strong, executrix, Reading, Mich. Means for hypodermic medication. No. 937,029; Oct. 12; Sp. p. 2967; Gaz. vol. 147; p. 493.  
 Strong, Carlisle & Hammond Company. (See Weintz, J., assignor.)  
 Strong Concrete Products Company. (See Strong, S., assignor.)  
 Strong, E. E., Paris, France, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 924,593; June 8; Sp. p. 3209; Gaz. vol. 143; p. 525.  
 Strong, J. B., Hillburn, N. Y. Guard-rail clamp. No. 921,024; May 11; Sp. p. 1893; Gaz. vol. 142; p. 335.  
 Strong, J. B., and J. D. McPherson, Hillburn, N. Y. Tongue-switch. No. 942,295; Dec. 7; Sp. p. 569; Gaz. vol. 149; p. 90.  
 Strong, S., assignor to Strong Concrete Products Company, Terre Haute, Ind. Building-block and wall constructed thereof. No. 920,212; May 4; Sp. p. 245; Gaz. vol. 142; p. 39.  
 Strong, W. E. S., Chicago, Ill., assignor to Winkley Company, Detroit, Mich. Distributing-pump. No. 927,759; July 13; Sp. p. 2194; Gaz. vol. 144; p. 380.  
 Stroock, S. M., Philadelphia, Pa., assignor to Automatic Inventions Company. Vending-machine. No. 910,156; Jan. 19; Sp. p. 3468; Gaz. vol. 138; p. 634.  
 Stroock, S. M., and B. U. Hirsh, Philadelphia, Pa. Perpetual calendar. No. 922,063; May 18; Sp. p. 4054; Gaz. vol. 142; p. 709.  
 Stroope, J. H., Strawn, Tex. Automatic locking and releasing device for mining-cars. No. 925,247; June 15; Sp. p. 4556; Gaz. vol. 143; p. 779.  
 Strother, R. G., Findlay, Ohio. Automatic train-pipe coupling. No. 935,944; Oct. 5; Sp. p. 734; Gaz. vol. 147; p. 108.  
 Strother, S. B., administrator. (See Wood, J. M.)  
 Stroud, W. (See Barr and Stroud.)  
 Stroud, W. J., and W. J. Jordan, Humboldt, Tenn. Adjustable handle. No. 911,848; Feb. 9, Sp. p. 1607; Gaz. vol. 139; p. 298.  
 Strough, F. B., *et al.* (See Peck, L., assignor.)  
 Stroup, S., Peru, Ind. Trolley-garage. No. 936,055; Oct. 5; Sp. p. 965; Gaz. vol. 147; p. 145.  
 Strouse, W. H., Oskaloosa, Iowa, assignor to American Automatic Stoker Company. Mechanical stoker. No. 918,217; Apr. 13; Sp. p. 2554; Gaz. vol. 141; p. 455.  
 Strouse, W. H., Oskaloosa, Iowa, assignor to American Automatic Stoker Company. Mechanical stoker. No. 918,482; Apr. 13; Sp. p. 3078; Gaz. vol. 141; p. 541.  
 Strube, W., Magdeburg-Buckau, Germany. Tubular spring for measuring instruments. No. 912,755; Feb. 16; Sp. p. 3634; Gaz. vol. 139; p. 640.  
 Struben, J., Kalamazoo, Mich. Globe-valve. No. 929,994; Aug. 3; Sp. p. 791; Gaz. vol. 145; p. 126.  
 Struer, J. E., Brooklyn, N. Y. Slip-joint coupling for steam-pipes. No. 915,502; Mar. 16; Sp. p. 3795; Gaz. vol. 140; p. 660.  
 Struer, J. E., Brooklyn, N. Y. Slip-joint for steam-pipes. No. 943,904; Dec. 21; Sp. p. 4029; Gaz. vol. 149; p. 698.  
 Struever, L., *et al.* (See Barr, J. U., assignor.)  
 Struss, H. W., New York, N. Y. Wire-package. No. 943,202; Dec. 14; Sp. p. 2515; Gaz. vol. 149; p. 426.  
 Struss, W. E., Buffalo, N. Y. Internal-combustion engine. No. 924,116; June 8; Sp. p. 2185; Gaz. vol. 143; p. 365.  
 Stryker, A. M., assignor of one-half to G. B. Haines, Chicago, Ill. Tooth-brush. No. 910,970; Jan. 26; Sp. p. 5168; Gaz. vol. 138; p. 931.  
 Stryker, C. L. (See Bachman, W. S., assignor.)  
 Stryker, J. M., Chicago, Ill. Bag-tie. No. 915,503; Mar. 16; Sp. p. 3797; Gaz. vol. 140; p. 660.  
 Stryker, J. M., Chicago, Ill. Bag-tie. (Reissue.) No. 13,017; Aug. 31; Sp. p. 7187; Gaz. vol. 145; p. 1233.  
 Strzelecki, M., San Francisco, Cal. Flying-machine. No. 916,626; Mar. 30; Sp. p. 6042; Gaz. vol. 140; p. 1083.  
 Stuart, F. J., St. Louis, Mo. Hernia-support. No. 917,376; Apr. 6; Sp. p. 849; Gaz. vol. 141; p. 145.  
 Stuart, G. (See Sanders, W. B., assignor.)  
 Stuart, G. S., Hollidaysburg, Pa. Chimney-cleaner. No. 922,353; May 18; Sp. p. 4613; Gaz. vol. 142; p. 802.  
 Stuart, G. W., Newtown, Conn. Nut-lock. No. 909,035; Jan. 5; Sp. p. 1229; Gaz. vol. 138; p. 197.  
 Stuart, H. R., Wheeling, W. Va. Telephone-receiver. No. 910,244; Jan. 19; Sp. p. 3673; Gaz. vol. 138; p. 668.  
 Stuart, H. R., Wheeling, W. Va. Microphone. No. 925,609; June 22; Sp. p. 5258; Gaz. vol. 143; p. 924.  
 Stuart, H. R., Wheeling, W. Va., assignor to Westinghouse Electric & Manufacturing Company. Electric-circuit interrupter. No. 934,474; Sept. 21; Sp. p. 3033; Gaz. vol. 146; p. 529.  
 Stuart, H. R., Wheeling, W. Va., assignor to American Telegraph Company, Telephone. No. 936,490; Oct. 12; Sp. p. 1890; Gaz. vol. 147; p. 312.  
 Stuart, H. R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-circuit interrupter. No. 936,578; Oct. 12; Sp. p. 2065; Gaz. vol. 147; p. 342.  
 Stuart, H. W., Fernbank, Ohio. Envelop. No. 928,407; July 20; Sp. p. 3557; Gaz. vol. 144; p. 629.  
 Stuart, H. W., Fernbank, assignor to United States Paper Goods Company, Cincinnati, Ohio. Paper bag. No. 916,897; Mar. 30; Sp. p. 6532; Gaz. vol. 140; p. 1166.  
 Stuart, J. A. (See Jones, E., assignor.)  
 Stuart, J. W., Freeport, Ill. Concrete-mixer. No. 930,900; Aug. 10; Sp. p. 2637; Gaz. vol. 145; p. 452.  
 Stuart, L. A. (See Frye, J. D. assignor.)  
 Stuart, S. M., *et al.* (See Montague and Stewart, assignors.)  
 Stuart, W. M. (See Taylor and Stuart.)  
 Stub, H., Christiania, and T. Qviller, Fredrikstad, Norway. Pulp-strainer. No. 925,667; June 22; Sp. p. 5382; Gaz. vol. 143; p. 667.  
 Stubbers, J., Covington, Ky., assignor to Incandescent Light & Stove Company, Cincinnati, Ohio. Hydrocarbon-burner. No. 926,300; June 29; Sp. p. 6730; Gaz. vol. 143; p. 1187.  
 Stubbers, J., Covington, Ky., assignor to Incandescent Light & Stove Company, Cincinnati, Ohio. Hydrocarbon heating and lighting system. No. 926,514; June 29; Sp. p. 7123; Gaz. vol. 143; p. 1257.  
 Stubbers, J., Covington, Ky., assignor to Incandescent Light & Stove Company, Cincinnati, Ohio. Hydrocarbon-burner. No. 935,430; Sept. 28; Sp. p. 4930; Gaz. vol. 146; p. 871.  
 Stubbings, G. (See Snow, I., assignor.)  
 Stubblefield, J. A., Salem, Oreg. Snap. No. 940,213; Nov. 16; Sp. p. 3918; Gaz. vol. 148; p. 666.  
 Stubbs, G. P. (See Thompson, J. W., assignor.)  
 Stubbs, R. C., Dallas, Tex. Solidifying mortar and concrete formations. No. 918,388; Apr. 13; Sp. p. 2891; Gaz. vol. 141; p. 510.  
 Stubbs, W., Stoke-upon-Trent, England. Apparatus for casting hollow and other ware of china and other materials. No. 934,231; Sept. 14; Sp. p. 2566; Gaz. vol. 146; p. 424.  
 Stubkjær, J. A., T. F. Burns, and W. C. McClintock, Tioga, N. D. Machine for molding concrete blocks. No. 929,261; July 27; Sp. p. 5302; Gaz. vol. 144; p. 937.  
 Stubler, E. A., Oil City, Pa. Pumping valve mechanism. No. 919,792; Apr. 27; Sp. p. 6050; Gaz. vol. 141; p. 1040.  
 Stuckel, F. C., Racine, Wis. Fastener for tank-bands. No. 923,211; June 1; Sp. p. 189; Gaz. vol. 143; p. 31.  
 Stuckey, R. B., *et al.* (See Hecathorn, O., assignor.)  
 Stucki, A., Allegheny, Pa. Anticreepers for rails. No. 915,634; Mar. 16; Sp. p. 4084; Gaz. vol. 140; p. 705.  
 Stucki, A., Pittsburg, Pa. Roller side bearing. No. 930,901; Aug. 10; Sp. p. 2638; Gaz. vol. 145; p. 452.  
 Studebaker, N. E. (See Cadwell and Studebaker.)  
 Studholme, J. F., Ruauui, New Zealand. Rotary engine. No. 929,512; July 27; Sp. p. 5808; Gaz. vol. 144; p. 1020.  
 Studio Printing & Box Company. (See Benjamin, D. A., assignor.)  
 Studwell, D. H., New Haven, Conn. Fishing-reel. No. 929,341; July 27; Sp. p. 5516; Gaz. vol. 144; p. 966.  
 Stueber, C. L. and L. C., Watertown, Wis. Foundation-top for pipe-carriers. No. 912,629; Feb. 16; Sp. p. 3326; Gaz. vol. 139; p. 596.  
 Stueber, L. C. (See Stueber, C. L. and L. C.)  
 Stueber, G. L., New York, N. Y. Scoop-gaging bucket. No. 913,319; Feb. 23; Sp. p. 4745; Gaz. vol. 139; p. 849.  
 Stukenborg, L. C., Browns, Ala. Garment-clasp. No. 923,600; June 1; Sp. p. 1101; Gaz. vol. 143; p. 168.  
 Stull, E. W., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. System of control. No. 910,604; Jan. 26; Sp. p. 4472; Gaz. vol. 138; p. 815.  
 Stull, E. W., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Motor-control system. No. 916,898; Mar. 30; Sp. p. 6533; Gaz. vol. 140; p. 1166.  
 Stull, E. W., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Multiple-voltage controller. No. 922,823; May 25; Sp. p. 5624; Gaz. vol. 142; p. 985.  
 Stull, E. W., Norwood, Ohio, assignor to Allis-Chalmers Company. Trolley-stand. No. 923,601; June 1; Sp. p. 1103; Gaz. vol. 143; p. 168.

*Alphabetical list of patentees—Continued.*

- Stull, E. W., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Controller-handle. No. 934,232; Sept. 14; Sp. p. 2569; Gaz. vol. 146; p. 425.
- Stull, E. W., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Controller-handle. No. 934,233; Sept. 14; Sp. p. 2571; Gaz. vol. 146; p. 425.
- Stull, E. W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Outlet-box construction. No. 931,521; Aug. 17; Sp. p. 3990; Gaz. vol. 145; p. 688.
- Stull, W. P., McKeesport, Pa. Exercising apparatus. No. 938,348; Oct. 26; Sp. p. 5764; Gaz. vol. 147; p. 981.
- Stulz, J. (See Kelley, J. T., assignor.)
- Stumpf, I. E., assignor of one-half to C. F. Searles, Cleveland, Ohio. Tool. No. 918,483; Apr. 13; Sp. p. 3079; Gaz. vol. 141; p. 541.
- Stumpf, G. F., Philadelphia, Pa. Neckwear holder and slip. No. 929,513; July 27; Sp. p. 5811; Gaz. vol. 144; p. 1020.
- Stumpf, J., Berlin, Germany. Steam-engine. No. 908,624; Jan. 5; Sp. p. 404; Gaz. vol. 138; p. 65.
- Sturdevant, C. R., Worcester, Mass. Rail-bond. No. 912,916; Feb. 16; Sp. p. 3908; Gaz. vol. 139; p. 689.
- Sturdevant, C. R., assignor to American Steel & Wire Company, Worcester, Mass. Apparatus for testing rail-bonds. No. 933,597; Sept. 7; Sp. p. 1299; Gaz. vol. 146; p. 193.
- Sturdevant, C. R., assignor to American Steel & Wire Company, Worcester, Mass. Electrically welding metals. No. 934,854; Sept. 21; Sp. p. 3781; Gaz. vol. 146; p. 656.
- Sturdy, J., *et al.* (See Shoemaker, F. A., assignor.)
- Sturgeon, E., Girard, Kans. Boiler-feeder. No. 912,756; Feb. 16; Sp. p. 3634; Gaz. vol. 139; p. 640.
- Sturgeon, H. M., *et al.* (See Drohen, J. L., assignor.)
- Sturgeon, J. C., *et al.* (See Drohen, J. L., assignor.)
- Sturgeon, J. C., Erie, Pa. Overhead trolley. No. 921,025; May 11; Sp. p. 1894; Gaz. vol. 142; p. 335.
- Sturges, C. B., assignor of one-half to J. G. Sanderson, Scranton, Pa. Carbureter. No. 918,607; Apr. 20; Sp. p. 3362; Gaz. vol. 141; p. 610.
- Sturgess Governor Engineering Company. (See Sturgess, J., assignor.)
- Sturgess, J., Troy, assignor to Sturgess Governor Engineering Company, Watervliet, N. Y. Variable-speed gear. No. 923,212; June 1; Sp. p. 191; Gaz. vol. 143; p. 31.
- Sturgess, J., assignor to Sturgess Governor Engineering Company, Troy, N. Y. Relief-valve mechanism. No. 937,494; Oct. 19; Sp. p. 3957; Gaz. vol. 147; p. 672.
- Sturzis B. F. (See Coombs D. D. assignor.)
- Sturgis, C. H., assignor of one-half to I. N. Colby, Granville, Ill. Safety elevator-cage. No. 914,086; Mar. 2; Sp. p. 926; Gaz. vol. 140; p. 145.
- Sturgis, C. M., Birmingham, Ala. Scale. No. 941,208; Nov. 23; Sp. p. 6106; Gaz. vol. 148; p. 1024.
- Sturgis, F. M., Shelbyville, Ill. Wheelwright's tool. No. 931,160; Aug. 17; Sp. p. 3248; Gaz. vol. 145; p. 566.
- Sturgis Steel Go-Cart Company. (See Loshbough, A. W., assignor.)
- Sturgis, W. B., Shelbyville, Ill. Water-switch. No. 925,053; June 15; Sp. p. 4193; Gaz. vol. 143; p. 714.
- Sturm, A. J., Stratford, Wis. Sharpening device. No. 919,976; Apr. 27; Sp. p. 6443; Gaz. vol. 141; p. 1101.
- Sturm, B. (See Doran, Sturm, and Hinkle.)
- Sturm, C. A., Portland, Oreg. Fire-escape. No. 936,280; Oct. 5; Sp. p. 1394; Gaz. vol. 147; p. 216.
- Sturm, C. A., and R. N. Flack, Portland, Oreg. Dumb-waiter or elevator. No. 929,342; July 27; Sp. p. 5517; Gaz. vol. 144; p. 966.
- Sturmo, A. (See Teschemacher and Sturmo.)
- Sturtevant, C. A., Plainfield, N. J. Turbine-engine. No. 930,503; Aug. 10; Sp. p. 1772; Gaz. vol. 145; p. 319.
- Sturtevant, C. A., Plainfield, N. J., assignor, by mesne assignments, to Fuller Manufacturing Company, New Haven, Conn. Forming signatures. No. 908,516; Jan. 5; Sp. p. 168; Gaz. vol. 138; p. 30.
- Sturtevant, C. A., Plainfield, N. J., assignor to Fuller Manufacturing Company, New Haven, Conn. Paper-folding machine. No. 908,517; Jan. 5; Sp. p. 169; Gaz. vol. 138; p. 31.
- Sturtevant, C. A., Plainfield, N. J., assignor to E. C. Fuller Company, New York, N. Y. Perforating mechanism. No. 911,548; Feb. 2; Sp. p. 994; Gaz. vol. 139; p. 173.
- Sturtevant Engineering Company. (See Lebrasseur, A., assignor.)
- Sturtevant Mill Company. (See Sturtevant, T. L. and T. J., assignors.)
- Sturtevant, O. S., assignor to Adrian Wire Fence Company, Adrian, Mich. Set-still tension for woof-wires. No. 911,344; Feb. 2; Sp. p. 626; Gaz. vol. 139; p. 107.
- Sturtevant, T. J. (See Bell and Sturtevant.)
- Sturtevant, T. J. (See Sturtevant, T. L. and T. J.)
- Sturtevant, T. L. (See Bell and Sturtevant.)
- Sturtevant, T. L., Quincy, and T. J. Sturtevant, Wellesley, Mass. Controlling device for motor-vehicles. No. 910,432; Jan. 19; Sp. p. 4090; Gaz. vol. 138; p. 733.
- Sturtevant, T. L., Quincy, and T. J. Sturtevant, Wellesley, Mass., assignors to Sturtevant Mill Company, Portland, Me. Grinding-mill. No. 924,014; June 8; Sp. p. 2011; Gaz. vol. 143; p. 333.
- Sturtz, C., Arkansas City, Kans. Mortise-marking device. No. 936,579; Oct. 12; Sp. p. 2068; Gaz. vol. 147; p. 342.
- Stütting, H., Witten, Germany. Rolling-mill. No. 916,052; Mar. 23; Sp. p. 4905; Gaz. vol. 140; p. 869.
- Stutsman, R. O., Des Moines, Iowa. Peanut-roaster. No. 930,104; Aug. 3; Sp. p. 1017; Gaz. vol. 145; p. 164.
- Stutts, H. L., Green Hill, Ala., assignor of one-half to E. J. Parker, St. Joseph, Tenn. Hygienic heater. No. 935,561; Sept. 28; Sp. p. 5218; Gaz. vol. 146; p. 916.
- Stutz, A. B., Crafton, and C. M. Igel, Pittsburg, Pa. Ventilator. No. 913,244; Feb. 23; Sp. p. 4591; Gaz. vol. 139; p. 823.
- Stutz, C. C., Pittsburg, Pa. Structure for buildings. No. 928,343; July 20; Sp. p. 3443; Gaz. vol. 144; p. 607.
- Stutz, H. C., Indianapolis, Ind. Steering-head for automobiles. No. 911,777; Feb. 9; Sp. p. 1478; Gaz. vol. 139; p. 276.
- Stutzman, A. A., Hugins, Pa. Single trigger for double-barreled firearms. No. 922,354; May 18; Sp. p. 4614; Gaz. vol. 142; p. 802.
- Stuver, H. W., Denver, Colo. Box attachment. No. 923,381; June 1; Sp. p. 614; Gaz. vol. 143; p. 90.
- Stuyverson, G. W., McEwen, Tenn. Door-hanger. No. 926,778; July 6; Sp. p. 140; Gaz. vol. 144; p. 23.
- Styer, G. W. (See Scott and Styer.)
- Sub-Target Gun Company. (See Cummings, H. H., assignor.)
- Subers, L. A. (See Bayne and Subers.)
- Subers, Z. T., assignor of one-half to F. B. Birch, Philadelphia, Pa. Covering for draft-rollers, &c. No. 938,087; Oct. 26; Sp. p. 5205; Gaz. vol. 147; p. 892.
- Submarine Company. (See Coffey, B. H., assignor.)
- Submarine Signal Company. (See Gale, H. B., assignor.)
- Submarine Signal Company. (See Mundy, A. J., assignor.)
- Submarine Signal Company. (See Wood, Durkee, Kelley, and Millet, assignors.)
- Succop, A., Pittsburg, Pa. Flushing mechanism. No. 909,961; Jan. 19; Sp. p. 3094; Gaz. vol. 138; p. 572.
- Sucher, I. E., Alton, N. Y. Broom-holder. No. 914,989; Mar. 9; Sp. p. 2750; Gaz. vol. 140; p. 463.
- Suchostauer, D., London, England. Electric traction on the surface-contact system. No. 913,782; Mar. 2; Sp. p. 224; Gaz. vol. 140; p. 37.
- Suess, J. A., Shreveport, La. Crane. No. 922,208; May 18; Sp. p. 4354; Gaz. vol. 142; p. 757.
- Sugg, H. A., Kennett, Mo. Gin cotton-seed cleaner. No. 932,350; Aug. 24; Sp. p. 5750; Gaz. vol. 145; p. 981.
- Sugrue, J. F. (See Robinson and Sugrue.)
- Sullivan, C. F., assignor to F. W. Lowe, Boston, Mass. Former for screw-driver blades. No. 916,215; Mar. 23; Sp. p. 5199; Gaz. vol. 140; p. 921.
- Sullivan, C. F., assignor to F. W. Lowe, Boston, Mass. Swinging curtain-fixture. No. 924,015; June 8; Sp. p. 2012; Gaz. vol. 143; p. 334.
- Sullivan, C. F., assignor to F. W. Lowe, Boston, Mass. Tool-shank. No. 927,821; July 13; Sp. p. 2328; Gaz. vol. 144; p. 401.
- Sullivan, C. P., Medford, and H. B. Black, Everett, Mass. Ballot-box. No. 926,779; July 6; Sp. p. 141; Gaz. vol. 144; p. 23.
- Sullivan, D. A. (See Jordan, H. E., assignor.)
- Sullivan, E., assignor of one-half to Jordan Brothers, New York, N. Y. Molding branch block. No. 926,148; June 29; Sp. p. 6405; Gaz. vol. 143; p. 1137.
- Sullivan, E. A., Toronto, Ontario, Canada. Puzzle toy operated by static electricity. No. 930,704; Aug. 10; Sp. p. 2223; Gaz. vol. 145; p. 387.
- Sullivan, E. A., assignor to Railway Supplies Limited, Toronto, Ontario, Canada. Joint-bar. No. 944,703; Dec. 28; Sp. p. 5756; Gaz. vol. 149; p. 996.
- Sullivan, H. W., London, England. Telephone-receiver. No. 911,178; Feb. 2; Sp. p. 301; Gaz. vol. 139; p. 54.
- Sullivan, I. M., Springfield, Ohio. Smoke-preventive apparatus. No. 941,547; Nov. 30; Sp. p. 6831; Gaz. vol. 148; p. 1157.
- Sullivan, J. D., Salt Lake City, Utah. Molding apparatus. No. 941,287; Nov. 23; Sp. p. 6276; Gaz. vol. 148; p. 1050.
- Sullivan, J. D., assignor of one-third to F. C. Conrad, Jr., Anaheim, Cal. Curtain-bracket. No. 938,088; Oct. 26; Sp. p. 5206; Gaz. vol. 147; p. 892.
- Sullivan, J. E., Camden, N. J., assignor to N. Z. Graves Company, Philadelphia, Pa. Making litharge. No. 931,522; Aug. 17; Sp. p. 3992; Gaz. vol. 145; p. 688.
- Sullivan, J. E., Reading, and W. B. Sullivan, Philadelphia, Pa. Talking-machine needle. No. 918,389; Apr. 13; Sp. p. 2892; Gaz. vol. 141; p. 511.



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 Sullivan, J. H., Grand Rapids, Mich. Fastening device for molds. No. 920,787; May 4; Sp. p. 1407; Gaz. vol. 142; p. 227.  
 Sullivan, J. J., Collis, Minn. Threshing-machine. No. 916,216; Mar. 23; Sp. p. 5200; Gaz. vol. 140; p. 921.  
 Sullivan, J. J., Eagle Mills, Ark. Carriage-drive. No. 919,793; Apr. 27; Sp. p. 6052; Gaz. vol. 141; p. 1041.  
 Sullivan, J. W., Edmonton, Alberta, Canada. Wrench. No. 944,923; Dec. 28; Sp. p. 6232; Gaz. vol. 149; p. 1071.  
 Sullivan, M. H., Carbondale, Pa. Attachment for shoe-sewing machines. No. 935,945; Oct. 5; Sp. p. 738; Gaz. vol. 147; p. 109.  
 Sullivan Machinery Company. (See Ball, A., assignor.)  
 Sullivan, T. A., and J. A. Young, New York, assignors to Brooklyn Cooperage Company, Brooklyn, N. Y. Barrel-trussing machine. No. 909,705; Jan. 12; Sp. p. 2563; Gaz. vol. 138; p. 454.  
 Sullivan, W., New York, N. Y. Awning. No. 920,686; May 4; Sp. p. 1213; Gaz. vol. 142; p. 195.  
 Sullivan, W. A., New York, N. Y. Vertical roundabout. No. 941,209; Nov. 23; Sp. p. 6108; Gaz. vol. 148; p. 1025.  
 Sullivan, W. B. (See Sullivan, J. E. and W. B.)  
 Sullivan, W. H., assignor of one-half to J. E. Frank, Denver, Colo. Car-seal. No. 932,351; Aug. 24; Sp. p. 5750; Gaz. vol. 145; p. 982.  
 Sullivan, W. J., Chicago, Ill. Armor for base-ball players. No. 925,851; June 22; Sp. p. 5800; Gaz. vol. 143; p. 1004.  
 Sullivan, W. J., Chicago, Ill. Armor for base-ball players. No. 932,352; Aug. 24; Sp. p. 5752; Gaz. vol. 145; p. 982.  
 Sulser, A. H., assignor of one-half to A. E. L. Schwiering, Washington, D. C. Door closing and checking device. No. 913,320; Feb. 23; Sp. p. 4746; Gaz. vol. 139; p. 849.  
 Sultz, C. S., assignor to Red Wing Advertising Company, Red Wing, Minn. Check-book. No. 938,908; Nov. 2; Sp. p. 1010; Gaz. vol. 148; p. 159.  
 Sultz, C. S., assignor to Red Wing Advertising Company, Red Wing, Minn. Folding check-book. No. 938,909; Nov. 2; Sp. p. 1011; Gaz. vol. 148; p. 160.  
 Sultz, C. S., assignor to Red Wing Advertising Company, Red Wing, Minn. Pocket check-book. No. 938,910; Nov. 2; Sp. p. 1013; Gaz. vol. 148; p. 160.  
 Sulzberger, N., New York, N. Y. Antiseptic composition containing phenyl acetate. No. 932,647; Aug. 31; Sp. p. 6399; Gaz. vol. 145; p. 1104.  
 Sulzberger, N., New York, N. Y. Non-odorous phenol salve and ointment. No. 938,614; Nov. 2; Sp. p. 391; Gaz. vol. 148; p. 58.  
 Summers, B. S., Chicago, Ill. Fiber-cleaning machine. No. 915,125; Mar. 16; Sp. p. 3044; Gaz. vol. 140; p. 537.  
 Summers, C. J. W. (See Chauncey, J. W., assignor.)  
 Summers, E. H., Wapello, Ill. Reversible latch. No. 927,189; July 6; Sp. p. 1014; Gaz. vol. 144; p. 164.  
 Summers, E. W., Pittsburg, Pa. Railway-car. No. 918,098; Apr. 13; Sp. p. 2311; Gaz. vol. 141; p. 415.  
 Summers, E. W., Pittsburg, Pa. Hopper-car. No. 918,390; Apr. 13; Sp. p. 2893; Gaz. vol. 141; p. 511.  
 Summers, F. E., Scotland county, Mo. Telephone system. No. 939,756; Nov. 9; Sp. p. 2900; Gaz. vol. 148; p. 476.  
 Summers Fiber Company. (See Summers, L. L., assignor.)  
 Summers, H. D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ventilating plate and spacer for electrical apparatus. No. 934,369; Sept. 14; Sp. p. 2820; Gaz. vol. 146; p. 471.  
 Summers, H. N., and C. M. Cooper, Erick, Okla. Hand-tool for extracting rivets. No. 936,580; Oct. 12; Sp. p. 2069; Gaz. vol. 147; p. 343.  
 Summers, J. S., assignor of one-third to M. M. Hoose, Atlanta, Ill. Device for inserting balls in tires. No. 912,917; Feb. 16; Sp. p. 3910; Gaz. vol. 139; p. 689.  
 Summers, L. L., Chicago, Ill. Coking process. No. 935,175; Sept. 28; Sp. p. 4427; Gaz. vol. 146; p. 789.  
 Summers, L. L., Chicago, Ill. Coking-furnace. No. 943,609; Dec. 14; Sp. p. 3358; Gaz. vol. 149; p. 567.  
 Summers, L. L., Chicago, Ill. Coking-furnace. No. 943,610; Dec. 14; Sp. p. 3364; Gaz. vol. 149; p. 567.  
 Summers, L. L., Chicago, Ill., assignor to Summers Fiber Company, Port Huron, Mich. Fiber-cleaning machine. No. 938,722; Nov. 2; Sp. p. 591; Gaz. vol. 148; p. 93.  
 Summers, T. F., Tyler, Tex. Loading device. No. 926,619; June 29; Sp. p. 7325; Gaz. vol. 143; p. 1292.  
 Summers, W. (See Eastwick, A. E., assignor.)  
 Summers, W. H., Worland, Mo. Vehicle-propelling mechanism. No. 915,058; Mar. 9; Sp. p. 2863; Gaz. vol. 140; p. 486.  
 Summers, W. T., Chicago, Ill. Furnace. No. 932,595; Aug. 31; Sp. p. 6276; Gaz. vol. 145; p. 1086.  
 Summerscales, S. H., Winnipeg, Manitoba, Canada. Reinforced concrete construction. No. 944,110; Dec. 21; Sp. p. 4470; Gaz. vol. 149; p. 768.  
 Summit Thread Company. (See Drury, J. J., assignor.)  
 Summit Thread Company. (See Rich, E. J., assignor.)  
 Sumner, R. (See Raw and Sumner.)  
 Sumner, W. E., Moseley, near Birmingham, England. Phase adjustment. No. 940,747; Nov. 23; Sp. p. 5110; Gaz. vol. 148; p. 871.  
 Sumter Telephone Mfg. Co. (See Mason, C. T., assignor.)  
 Sun Typewriter Company. (See Howell, C. W., assignor.)  
 Sundberg, G. J. E., Stockholm, and C. J. J. Hägg, Hagaryd, Sweden. Milking-machine. No. 917,905; Apr. 13; Sp. p. 1917; Gaz. vol. 141; p. 347.  
 Sundeen, J. M., Hudson, Wis. Purse. No. 926,908; July 6; Sp. p. 426; Gaz. vol. 144; p. 68.  
 Sundee, J. R., assignor to Empire Jewelry Case Company, Buffalo, N. Y. Jewelry-box. No. 941,741; Nov. 30; Sp. p. 7244; Gaz. vol. 148; p. 1222.  
 Sunderland, J. C., Kansas City, Mo. Corner-plate for concrete piers, &c. No. 916,378; Mar. 23; Sp. p. 5501; Gaz. vol. 140; p. 976.  
 Sunderland, S., Keighley, England. Machine for cutting the teeth of bevel-wheels. No. 908,901; Jan. 5; Sp. p. 969; Gaz. vol. 138; p. 155.  
 Sundh, A. (See Pearson and Sundh.)  
 Sundh, A., Yonkers, N. Y. Indicator. No. 937,555; Oct. 19; Sp. p. 4102; Gaz. vol. 147; p. 697.  
 Sundh, A., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Power transmission for traction-elevators. No. 921,634; May 11; Sp. p. 3169; Gaz. vol. 142; p. 542.  
 Sundh, A., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Limit-stop brake apparatus. No. 926,620; June 29; Sp. p. 7327; Gaz. vol. 143; p. 1292.  
 Sundhausen, H. (See Schoeller and Sundhausen.)  
 Sundhausen, H. (See Krone, Schoeller, and Sundhausen.)  
 Sundman, N. B. H., Altoona, Pa. Ellipsograph. No. 918,218; Apr. 13; Sp. p. 2557; Gaz. vol. 141; p. 456.  
 Sundquist, P. E., Albany, Minn. Cutter-bar. No. 915,247; Mar. 16; Sp. p. 3298; Gaz. vol. 140; p. 576.  
 Sunlight Double Glass Sash Co. (See Bodley, W. S., assignor.)  
 Superheaters, Limited. (See Sisterson, G. R., assignor.)  
 Superior Manufacturing Company. (See Redmond, W., assignor.)  
 Supf, F., assignor to Arabol Manufacturing Company, New York, N. Y. Treating starch. No. 918,925; Apr. 20; Sp. p. 4097; Gaz. vol. 141; p. 718.  
 Suplee, D. C., assignor to Suplee Elevator Company, Philadelphia, Pa. Elevator. No. 938,027; Oct. 26; Sp. p. 5064; Gaz. vol. 147; p. 871.  
 Suplee Elevator Company. (See Suplee, D. C., assignor.)  
 Supper, J. R., Philadelphia, Pa. Range. No. 914,085; Mar. 2; Sp. p. 924; Gaz. vol. 140; p. 145.  
 Supplemental Spiral Spring Company. (See Furnidge, S., assignor.)  
 Supreme Knitting Bobbin Company. (See Wardwell, S. W., assignor.)  
 Surbaugh, J. S., Terre Haute, Ind. Coal-drill. No. 914,893; Mar. 9; Sp. p. 2600; Gaz. vol. 140; p. 434.  
 Surecourt, E., Billancourt, France, assignor to Renard Road and Rail Transport Corporation, Limited, London, England. Motor road-vehicle. No. 914,201; Mar. 2; Sp. p. 1170; Gaz. vol. 140; p. 183.  
 Surdenik, N. H., Chicago, Ill. Draft-gear for cars. No. 914,990; Mar. 9; Sp. p. 2751; Gaz. vol. 140; p. 464.  
 Suren, N. H., Needham, Mass., assignor to Gamewell Fire Alarm Telegraph Company, New York, N. Y. Electric switch. No. 929,635; July 27; Sp. p. 6058; Gaz. vol. 144; p. 1060.  
 Suren, N. H., Needham, Mass., assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Electric-signal recorder. No. 938,285; Oct. 26; Sp. p. 5610; Gaz. vol. 147; p. 960.  
 Suren, N. H., Needham, Mass., assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Electric-signal recorder. No. 938,286; Oct. 26; Sp. p. 5616; Gaz. vol. 147; p. 960.  
 Surf Light and Power Company. (See Hicks, C. W., assignor.)  
 Surfacing Machine Company. (See Wattles, C. B., assignor.)  
 Surles, L. O., Atlanta, Ga. Automatic trunking apparatus for electrical circuits. No. 919,491; Apr. 27; Sp. p. 5467; Gaz. vol. 141; p. 939.  
 Surprise, J., New Haven, Conn. Clothes-drier. No. 916,053; Mar. 23; Sp. p. 4907; Gaz. vol. 140; p. 869.  
 Susseles, F., Staten Island, N. Y. Car-fender. No. 923,213; June 1; Sp. p. 192; Gaz. vol. 143; p. 32.  
 Sussman, L., et al. (See Gorman, F., assignor.)  
 Sussmann, M., Berlin, Germany. Gastroscope. No. 944,830; Dec. 28; Sp. p. 6042; Gaz. vol. 149; p. 1039.  
 Sutch, H. B., Pittsburg, Pa. Sash-fastener. No. 935,131; Sept. 28; Sp. p. 4350; Gaz. vol. 146; p. 776.  
 Suter, G., assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Apparatus for drying and grinding materials. No. 932,727; Aug. 31; Sp. p. 6564; Gaz. vol. 145; p. 1131.  
 Suter, J., Jersey City, N. J. Aerial vessel. No. 941,896; Nov. 30; Sp. p. 7586; Gaz. vol. 148; p. 1277.

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 Sutherland, C. G., Baltimore, Md. Seat-cover for water-closets, &c. No. 920,213; May 4; Sp. p. 246; Gaz. vol. 142; p. 39.  
 Sutherland, E., Hollywood, Cal. Combination nozzle-support and spraying device. No. 941,109; Nov. 23; Sp. p. 5877; Gaz. vol. 148; p. 990.  
 Sutherland, E., assignor to W. E. Pile, Los Angeles, Cal. Pencil-sharpener. No. 911,778; Feb. 9; Sp. p. 1479; Gaz. vol. 139; p. 276.  
 Sutherland, H. J., Swampscott, Mass. Miter-cutting machine for metallic binding for patterns, &c. No. 934,027; Sept. 14; Sp. p. 2147; Gaz. vol. 146; p. 356.  
 Sutherland, M. W., Waterbury, Conn. Shirt-waist adjuster. No. 926,621; June 29; Sp. p. 7331; Gaz. vol. 143; p. 1293.  
 Sutherland, P., La Luz, N. Mex. Ter. Regulator for the flow and level of liquids. No. 927,899; July 13; Sp. p. 2500; Gaz. vol. 144; p. 426.  
 Sutherland, R. V., Swea township, Kossuth county, Iowa. Ditching-machine. No. 921,178; May 11; Sp. p. 2209; Gaz. vol. 142; p. 389.  
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 Sutphen, G. E., Aurora, Ill. Rake. No. 914,087; Mar. 2; Sp. p. 930; Gaz. vol. 140; p. 146.  
 Sutro, H. H., New York, N. Y., and L. M. Booth, Plainfield, N. J. Water softening and purifying apparatus. No. 910,327; Jan. 19; Sp. p. 3878; Gaz. vol. 138; p. 698.  
 Sutter, F., Shelby, Ohio. Gluing-machine. No. 915,504; Mar. 16; Sp. p. 3798; Gaz. vol. 140; p. 660.  
 Sutter, O., Isanti, Minn. Bean-sorter. No. 920,499; May 4; Sp. p. 815; Gaz. vol. 142; p. 132.  
 Sutter, O., Isanti, Minn. Sorting-belt. No. 938,521; Nov. 2; Sp. p. 183; Gaz. vol. 148; p. 25.  
 Sutter, O., Isanti, Minn. Potato-picker. No. 944,111; Dec. 21; Sp. p. 4472; Gaz. vol. 149; p. 768.  
 Sutter, T. (See Ach and Sutter.)  
 Sutton, S. R., Naples, N. Y. Gang fishing-hook. No. 913,440; Feb. 23; Sp. p. 4973; Gaz. vol. 139; p. 890.  
 Sutton, W., Sacramento, Cal. Oil-burner. No. 940,949; Nov. 23; Sp. p. 5538; Gaz. vol. 148; p. 937.  
 Sutton, W. N. (See Anderson, G. C., assignor.)  
 Sutzer, A. B., R. T. Layman, and S. Klinglesmith, Cecilian, Ky. Folding case. No. 928,818; July 20; Sp. p. 4371; Gaz. vol. 144; p. 762.  
 Suverkrup, B. F., and W. O. Owens, Urbana, Ill. Continuous rail-frog. No. 942,947; Dec. 14; Sp. p. 1963; Gaz. vol. 149; p. 341.  
 Suzuki, T., Sunamura, Japan. Evaporator. No. 916,054; Mar. 23; Sp. p. 4908; Gaz. vol. 140; p. 869.  
 Suzuki, T., Sunamura, Japan. Evaporator. No. 937,114; Oct. 19; Sp. p. 3134; Gaz. vol. 147; p. 551.  
 Svagell, F., Verona, Pa. Carburetor. No. 928,710; July 20; Sp. p. 4169; Gaz. vol. 144; p. 727.  
 Svaltek, J. (See Nemeth, L., assignor.)  
 Svelch, J., Popovický, Austria-Hungary. Rotary machine. No. 926,301; June 29; Sp. p. 6731; Gaz. vol. 143; p. 1187.  
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 Svoboda, L., and F. Kopecky, Chicago, Ill. Cloth-steaming brush. No. 938,089; Oct. 26; Sp. p. 5208; Gaz. vol. 147; p. 892.  
 Swagerty, T. I. (See Holmes and Swagerty.)  
 Swahn, A., Ellsworth, Wis. Carrier system. No. 926,302; June 29; Sp. p. 6732; Gaz. vol. 143; p. 1187.  
 Swahn, A. F., Brooklyn, N. Y. Machine-gun. No. 928,344; July 20; Sp. p. 3444; Gaz. vol. 144; p. 607.  
 Swain, H., San Francisco, Cal. Pump for automobile-tires. No. 938,522; Nov. 2; Sp. p. 184; Gaz. vol. 148; p. 26.  
 Swain, J. G., Martinsville, Ind. Can. No. 928,561; July 20; Sp. p. 3866; Gaz. vol. 144; p. 676.  
 Swainson, A., Spokane, Wash. Insect-destroyer. No. 941,742; Nov. 30; Sp. p. 7245; Gaz. vol. 148; p. 1222.  
 Swallow, J. G., and W. E. McCoy, assignors of one-third to F. W. Smith, New York, N. Y. Connection-block for electric service-circuits. No. 927,384; July 6; Sp. p. 1363; Gaz. vol. 144; p. 226.  
 Swan, A. H. S., assignor to Rochester Stamping Co., Rochester, N. Y. Handle for removable closures for receptacles. No. 910,605; Jan. 26; Sp. p. 4475; Gaz. vol. 138; p. 816.  
 Swan, F. A., Cliftondale, Mass. Strain-relieving means for terminals of lamp-sockets, &c. No. 935,705; Oct. 5; Sp. p. 179; Gaz. vol. 147; p. 28.  
 Swan, F. A., Cliftondale, Mass. Coupling for fish-tapes. No. 938,723; Nov. 2; Sp. p. 594; Gaz. vol. 148; p. 93.  
 Swan, H. S., Wanamingo, Minn. Means for detachably connecting wagon-boxes and racks. No. 926,834; July 6; Sp. p. 269; Gaz. vol. 144; p. 43.  
 Swan, Hunter & Wigham Richardson Limited. (See Schlick and Wurl, assignors.)  
 Swan, J. H., Chicago, Ill. Thermostat. No. 921,308; May 11; Sp. p. 2435; Gaz. vol. 142; p. 431.  
 Swan, J. S., Jr., Mount Vernon, N. Y. Tack-puller. No. 918,219; Apr. 13; Sp. p. 2559; Gaz. vol. 141; p. 456.  
 Swan, J. T., Auburn, Nebr. Fruit-gatherer. No. 925,248; June 15; Sp. p. 4558; Gaz. vol. 143; p. 779.  
 Swan, L. H., Los Angeles, Cal. Fruit-picker. No. 916,055; Mar. 23; Sp. p. 4911; Gaz. vol. 140; p. 870.  
 Swanberg, J., Dixon, Ill. Hair-comb. No. 933,274; Sept. 7; Sp. p. 563; Gaz. vol. 146; p. 86.  
 Swanger, W. E., and E. P. Hueber, assignors to American Machinery & Export Co., Hackettstown, N. J. Feeding mechanism. No. 922,355; May 18; Sp. p. 4619; Gaz. vol. 142; p. 803.  
 Swangren, E. V. (See Weber, Eberhart, and Swangren.)  
 Swank, L., assignor to Dwiggin Wire Fence Company, Anderson, Ind. Die. No. 940,214; Nov. 16; Sp. p. 3920; Gaz. vol. 148; p. 666.  
 Swank, L., assignor to Dwiggin Wire Fence Company, Anderson, Ind. Die. No. 940,215; Nov. 16; Sp. p. 3922; Gaz. vol. 148; p. 666.  
 Swank, R. B., Dayton, Ohio. Railway-switch. No. 920,214; May 4; Sp. p. 247; Gaz. vol. 142; p. 39.  
 Swank, T. M., Louisville, Ky. Lock-valve. No. 939,108; Nov. 2; Sp. p. 1392; Gaz. vol. 148; p. 227.  
 Swann, N. P. (See Rhoades and Swann.)  
 Swann, W. A., New York, N. Y. Necktie-display stand. No. 924,291; June 8; Sp. p. 2615; Gaz. vol. 143; p. 425.  
 Swanson, A. (See Farland and Swanson.)  
 Swanson, A., Moline, Ill. Nut-lock. No. 909,706; Jan. 12; Sp. p. 2566; Gaz. vol. 138; p. 454.  
 Swanson, A. F. (See Martin and Swanson.)  
 Swanson, C. C., assignor of one-half to W. Conry, Laporte, Ind. Wrench. No. 941,431; Nov. 30; Sp. p. 6601; Gaz. vol. 148; p. 1119.  
 Swanson, C. C., assignor of one-half to W. Conry, Laporte, Ind. Hub-attaching device. No. 941,470; Nov. 30; Sp. p. 6681; Gaz. vol. 148; p. 1132.  
 Swanson, E. F., Galesburg, Ill. Corn-hanger. No. 935,562; Sept. 28; Sp. p. 5220; Gaz. vol. 146; p. 916.  
 Swanson, H. A., assignor to Precision Appliance Company, Chicago, Ill. Lubricator. No. 928,819; July 20; Sp. p. 4372; Gaz. vol. 144; p. 762.  
 Swanson, J. H., Baldwin, Wis., assignor of one-fourth to T. F. Robinson, St. Paul, Minn. Telephone-line selective switch device. No. 941,743; Nov. 30; Sp. p. 7246; Gaz. vol. 148; p. 1222.  
 Swanson, J. M., Corry, Pa. Mechanical hammer. No. 934,701; Sept. 21; Sp. p. 3479; Gaz. vol. 146; p. 606.  
 Swanson, P., Soudan, Minn. Indicating device for bins. No. 910,606; Jan. 26; Sp. p. 4476; Gaz. vol. 138; p. 816.  
 Swarthout, E. E., Evanston, Ill. Gearing. No. 940,748; Nov. 23; Sp. p. 5113; Gaz. vol. 148; p. 871.  
 Swartwout, D. K., Cleveland, Ohio. Separator. No. 915,505; Mar. 16; Sp. p. 3800; Gaz. vol. 140; p. 661.  
 Swartz, F. M., Providence, R. I., assignor to Alpha Jewelry Company, Pin. No. 915,901; Mar. 23; Sp. p. 4622; Gaz. vol. 140; p. 820.  
 Swartz, H. B., Wooster, Ohio. Voting-machine. No. 935,869; Oct. 5; Sp. p. 576; Gaz. vol. 147; p. 83.  
 Swartz, T. J., et al. (See Dahlquist, J. L., assignor.)  
 Swasey, B. A., West Peru, assignor to R. A. Worth, Portland, Me. Animal-trap. No. 912,203; Feb. 9; Sp. p. 2392; Gaz. vol. 139; p. 412.  
 Sweare, J. A., Beaver, Pa., and C. E. Toynbee, Morgantown, W. Va., assignors, by mesne assignments, to Mississippi Wire Glass Company, Jersey City, N. J. Apparatus for making wire-glass. No. 915,805; Mar. 23; Sp. p. 4439; Gaz. vol. 140; p. 788.  
 Swearingin, A. L., Eatons, W. Va. Vehicle-chock. No. 914,894; Mar. 9; Sp. p. 2602; Gaz. vol. 140; p. 435.  
 Swearingin, F., Batchtown, Ill. Spraying apparatus. No. 929,343; July 27; Sp. p. 5519; Gaz. vol. 144; p. 967.  
 Sweeney, J. H., Shelbyville, Tenn. Mail-bag deliverer. No. 944,222; Dec. 21; Sp. p. 4682; Gaz. vol. 149; p. 802.  
 Sweeney, M., et al. (See Bonney, B. R., assignor.)  
 Sweeney, M. L., assignor of one-half to C. H. Treat, New York, N. Y. Cable or telegraph code. No. 916,899; Mar. 30; Sp. p. 6538; Gaz. vol. 140; p. 1167.  
 Sweeney, M. L., assignor of one-half to C. H. Treat, New York, N. Y. Telegraph or cable code. No. 933,679; Sept. 7; Sp. p. 1460; Gaz. vol. 146; p. 220.  
 Sweeney, P. W. (See Kennedy, O. J., assignor.)  
 Sweeney, S. K., et al. (See Bonney, B. R., assignor.)  
 Sweeny, J. S. (See Grindle and Sweeny.)  
 Sweeny, J. S., and W. W. Grindle, Decatur, Ill. Feed-water heater. No. 929,050; July 27; Sp. p. 4852; Gaz. vol. 144; p. 867.  
 Sweet, B. W., Cleveland, Ohio, assignor, by mesne assignments, to Century Telephone Construction Company, Buffalo, N. Y. Selective-ringing magneto-bell. No. 929,995; Aug. 3; Sp. p. 792; Gaz. vol. 145; p. 127.  
 Sweet, B. W., Cleveland, Ohio, assignor, by mesne assignments, to Century Telephone Construction Company, Buffalo, N. Y. Annunciator-drop. No. 930,324; Aug. 3; Sp. p. 1411; Gaz. vol. 145; p. 234.  
 Sweet, B. W., assignor to H. Z. Sands, Cleveland, Ohio. Sheet-metal supporting-arm. No. 941,591; Nov. 30; Sp. p. 6916; Gaz. vol. 148; p. 1170.  
 Sweet, C. A., et al. (See Anderson, J., assignor.)



*Alphabetical list of patentees—Continued.*

- Sweet, C. E., Wilkinsburg, Pa., assignor to Westinghouse Machine Company. Manufacturing compound-tapered wedges. No. 940,749; Nov. 23; Sp. p. 5115; Gaz. vol. 148; p. 871.
- Sweet, E. E., assignor to Cadillac Motor Car Company, Detroit, Mich. Cooling system for explosion-engines. No. 915,506; Mar. 16; Sp. p. 3802; Gaz. vol. 140; p. 661.
- Sweet, E. E., assignor to Cadillac Motor Car Company, Detroit, Mich. Pneumatic brake for motor-vehicles. No. 925,528; June 22; Sp. p. 5093; Gaz. vol. 143; p. 897.
- Sweet, E. E., assignor to Cadillac Motor Car Company, Detroit, Mich. Dynamometer. No. 929,803; Aug. 3; Sp. p. 373; Gaz. vol. 145; p. 62.
- Sweet, H. E., Portland, Oreg. Cutlery-grinder. No. 909,707; Jan. 12; Sp. p. 2567; Gaz. vol. 138; p. 455.
- Sweet, J. M., Batavia, and T. J. Clark, Jamestown, N. Y. Shears. No. 910,607; Jan. 26; Sp. p. 4478; Gaz. vol. 138; p. 816.
- Sweet, O. C., Watertown, N. Y. Pocket-envelope. No. 925,730; June 22; Sp. p. 5520; Gaz. vol. 143; p. 963.
- Sweet, W., Fort Wayne, Ind. Gearing. No. 923,382; June 1; Sp. p. 616; Gaz. vol. 143; p. 90.
- Sweet, W. F., assignor to B. Johnson, Philadelphia, Pa. Advertising device. No. 943,714; Dec. 21; Sp. p. 3641; Gaz. vol. 149; p. 632.
- Sweetland, E. J., Los Angeles, Cal. Pressure-filter. No. 929,636; July 27; Sp. p. 6061; Gaz. vol. 144; p. 1060.
- Sweetland, W. W., Edwardsburg, Mich. Sash supporter and lock. No. 924,853; June 15; Sp. p. 3776; Gaz. vol. 143; p. 646.
- Swegles, J., Wayne, Mich. Pruning-hook. No. 934,947; Sept. 21; Sp. p. 3965; Gaz. vol. 146; p. 688.
- Swem, D. D., Chicago, Ill. Electric flasher. No. 933,137; Sept. 7; Sp. p. 205; Gaz. vol. 146; p. 35.
- Swenberg, E., and R. Enstrom, Chicago, Ill. Railway-frog. No. 944,350; Dec. 28; Sp. p. 4959; Gaz. vol. 149; p. 874.
- Sweeney, B. J., Wichita, Kans. Sprinkler. No. 917,377; Apr. 6; Sp. p. 851; Gaz. vol. 141; p. 146.
- Swenson, A., Manor, Tex. Rail-joint. No. 909,346; Jan. 12; Sp. p. 1860; Gaz. vol. 138; p. 333.
- Swenson, C. J., *et al.* (See Faust, L., assignor.)
- Swenson, L. L., Longmont, Colo. Gold-separator. No. 917,906; Apr. 13; Sp. p. 1918; Gaz. vol. 141; p. 347.
- Swenson, E., Minneapolis, Minn. Lift-bridge. No. 911,628; Feb. 9; Sp. p. 1197; Gaz. vol. 139; p. 227.
- Swern, E. V., Denver, Colo. Revolving hay-rake. No. 923,728; June 1; Sp. p. 1346; Gaz. vol. 143; p. 209.
- Swetnam, J. W., and C. O. Elam, Mount Sterling, Ky. Clevis. No. 933,138; Sept. 7; Sp. p. 209; Gaz. vol. 146; p. 36.
- Swett, L. R., Boston, Mass. Envelop. No. 939,876; Nov. 9; Sp. p. 3132; Gaz. vol. 148; p. 517.
- Swett, L. R., Boston, Mass. Envelop. No. 942,420; Dec. 7; Sp. p. 807; Gaz. vol. 149; p. 132.
- Swett, W. R., assignor to Acme Match Company, Roanoke, Va. Match-machine. No. 939,348; Nov. 9; Sp. p. 1983; Gaz. vol. 148; p. 337.
- Sweszy, M. C., West Haven, Conn. Cash-carrier. No. 918,099; Apr. 13; Sp. p. 2313; Gaz. vol. 141; p. 415.
- Swift and Company. (See Collins, H. B., assignor.)
- Swift and Company. (See Mowinkel, J. E., assignor.)
- Swift, E. M., Ballard, Wash. Air-brake system. No. 931,234; Aug. 17; Sp. p. 3410; Gaz. vol. 145; p. 591.
- Swift, G. W., Jr., Bordentown, N. J. Machine for facing corrugated paper. No. 917,503; Apr. 6; Sp. p. 1068; Gaz. vol. 141; p. 187.
- Swift, H. E., Los Angeles, Cal. Oil-burner. No. 926,780; July 6; Sp. p. 144; Gaz. vol. 144; p. 24.
- Swift, S. B., Knoxville, Tenn. Envelop. No. 915,806; Mar. 23; Sp. p. 4441; Gaz. vol. 140; p. 789.
- Swift, W. C. (See Mills, C., assignor.)
- Swift, W. C., Chappaqua, N. Y. Molding-machine. No. 910,028; Jan. 19; Sp. p. 3215; Gaz. vol. 138; p. 593.
- Swift, W. E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Machine for attaching closing-cords to merchandise-envelops. No. 923,602; June 1; Sp. p. 1105; Gaz. vol. 143; p. 168.
- Swimmer, R., New York, N. Y., and E. B. Neelen, Lyndhurst, N. J. Safety-cock. No. 936,581; Oct. 12; Sp. p. 2071; Gaz. vol. 147; p. 343.
- Swindell, J. A., Reserve township, Allegheny county, Pa. Apparatus for obtaining a measured feed. No. 917,378; Apr. 6; Sp. p. 853; Gaz. vol. 141; p. 146.
- Swindell, J. C., Reserve township, Allegheny county, Pa. Annealing-furnace. No. 908,902; Jan. 5; Sp. p. 974; Gaz. vol. 138; p. 155.
- Swindell, W. B., and C. H. Holloway, Raleigh, N. C. Water-heater. No. 911,087; Feb. 2; Sp. p. 124; Gaz. vol. 139; p. 23.
- Swineford, G. A., Canton, Ohio. Door-hanger. No. 909,036; Jan. 5; Sp. p. 1230; Gaz. vol. 138; p. 198.
- Swinehart, B. C., Akron, Ohio. Vehicle-tire. No. 926,969; July 6; Sp. p. 544; Gaz. vol. 144; p. 89.
- Swinehart, J. A., Akron, Ohio. Single-tube pneumatic tire. No. 909,962; Jan. 19; Sp. p. 3095; Gaz. vol. 138; p. 572.
- Swinehart, J. A., Akron, Ohio. Tire-tool. No. 922,541; May 25; Sp. p. 5037; Gaz. vol. 142; p. 894.
- Swinglehurst, H. (See Scott and Swinglehurst.)
- Swinglehurst, H., Philadelphia, Pa., assignor to R. W. Scott, Leeds Point, N. J., and L. N. D. Williams, Ogontz, Pa. Latch-opening device for knitting-machines. No. 922,064; May 18; Sp. p. 4055; Gaz. vol. 142; p. 709.
- Swinney, C. L., Fredaba, Cal. Folding camp-stove. No. 937,890; Oct. 26; Sp. p. 4777; Gaz. vol. 147; p. 825.
- Swintek, M., Des Moines, Iowa. Sand-pumping plant. No. 921,910; May 18; Sp. p. 3748; Gaz. vol. 142; p. 659.
- Switzer, J. A., Philadelphia, Pa. Method of and apparatus for testing and sorting metallic bodies. No. 939,109; Nov. 2; Sp. p. 1394; Gaz. vol. 148; p. 227.
- Swoboda, T. (See Kempf, C., assignor.)
- Swoger, A. D., Pittsburg, Pa. Extinguisher. No. 940,832; Nov. 23; Sp. p. 5300; Gaz. vol. 148; p. 899.
- Sydnor, G. F., Newark, N. J. Anchor-hook, guy-clamp, and stretcher. No. 929,996; Aug. 3; Sp. p. 795; Gaz. vol. 145; p. 127.
- Syrdeman, A., and J. Meade, Stoughton, Mass. Apparatus for treating coated textile fabrics. No. 940,563; Nov. 16; Sp. p. 4706; Gaz. vol. 148; p. 784.
- Sydnor, T. L. (See Guerrant, G. M., assignor.)
- Sykes, C. J., Chicago, Ill. Cloth measurer and marker. No. 941,110; Nov. 23; Sp. p. 5879; Gaz. vol. 148; p. 990.
- Sykes, H. J., *et al.* (See Campbell, N., assignor.)
- Sykes, J. W., *et al.* (See Gray, H., assignor.)
- Sykes, J. W., Chicago, Ill. Ditching and earth-distributing mechanism. No. 941,050; Nov. 23; Sp. p. 5751; Gaz. vol. 148; p. 971.
- Sykes, J. W., Chicago, Ill. Dike-building apparatus and process. No. 941,051; Nov. 23; Sp. p. 5754; Gaz. vol. 148; p. 971.
- Sylvester, R., Lindsay, Ontario, Canada. Traction-truck. No. 913,783; Mar. 2; Sp. p. 228; Gaz. vol. 140; p. 38.
- Sylvestre, J., White Sulphur Springs, Mont. Attachment for grindstones. No. 925,610; June 22; Sp. p. 5260; Gaz. vol. 143; p. 925.
- Symington, T. H., Baltimore, Md. Torsion-rod for journal-boxes. No. 938,523; Nov. 2; Sp. p. 185; Gaz. vol. 148; p. 26.
- Symington, T. H., Baltimore, Md. Draft-gear. No. 942,948; Dec. 14; Sp. p. 1964; Gaz. vol. 149; p. 341.
- Symmonds, R., assignor to T. B. Jeffery, Kenosha, Wis. Speed-changing mechanism. No. 929,997; Aug. 3; Sp. p. 796; Gaz. vol. 145; p. 127.
- Symmonds, R., Jr., assignor to T. B. Jeffery, Kenosha, Wis. Selective controller. No. 917,973; Apr. 13; Sp. p. 2041; Gaz. vol. 141; p. 371.
- Symonds, C. M. (See Young and Symonds.) (Reissue.)
- Symonds, C. M., San Anselmo, Cal. Containing-can. No. 934,370; Sept. 14; Sp. p. 2821; Gaz. vol. 146; p. 471.
- Symonds, C. M., San Anselmo, Cal. Can-closing machine. No. 934,371; Sept. 14; Sp. p. 2822; Gaz. vol. 146; p. 471.
- Symonds, E. F., and G. W. Brann, Salem, assignors to Standard Machines Company, Boston, Mass. Coin-operating mechanism. No. 909,253; Jan. 12; Sp. p. 1678; Gaz. vol. 138; p. 302.
- Symonds, E. F., and G. W. Brann, Salem, assignors to Standard Machines Company, Boston, Mass. Shoe-polishing machine. No. 910,740; Jan. 26; Sp. p. 4718; Gaz. vol. 138; p. 858.
- Symonds, H., East St. Louis, Ill. Hammer. No. 911,779; Feb. 9; Sp. p. 1481; Gaz. vol. 139; p. 277.
- Symonds, J. H. (See Feerrer, J. W., assignor.)
- Symonds, J. H., Swampscott, Mass. Motor-car wheel. No. 913,580; Feb. 23; Sp. p. 5294; Gaz. vol. 139; p. 937.
- Symons, E. B., assignor to T. L. Smith Company, Milwaukee, Wis. Dumping-elevator. No. 926,909; July 6; Sp. p. 427; Gaz. vol. 144; p. 69.
- Symons, E. B., assignor to T. L. Smith Company, Milwaukee, Wis. Power-charging device for concrete-mixers. No. 934,234; Sept. 14; Sp. p. 2575; Gaz. vol. 146; p. 426.
- Symons, J. E., Milwaukee, Wis. Steel axle. No. 909,963; Jan. 19; Sp. p. 3096; Gaz. vol. 138; p. 572.
- Symons, J. E., Chicago, Ill. Axle. No. 915,902; Mar. 23; Sp. p. 4623; Gaz. vol. 140; p. 820.
- Symons, J. V., Johnstown, assignor to Liberty Manufacturing Company, Pittsburg, Pa. Boiler-tube cleaner. No. 942,798; Dec. 7; Sp. p. 1575; Gaz. vol. 149; p. 259.
- Syner, H., assignor to National Paperette Company, Springfield, Mass. Paper box. No. 914,321; Mar. 2; Sp. p. 1420; Gaz. vol. 140; p. 219.
- Synoloids Limited. (See Mallabar, H. J., assignor.)
- Sypher, B. M., Toledo, Ohio. Electromagnetic separator for grain-chutes. No. 933,930; Sept. 14; Sp. p. 1971; Gaz. vol. 146; p. 325.
- Syracuse Flaw Company. (See Lee, W. H., assignor.)
- Syracuse Steam Gauge Manufacturing Company. (See Ostermann, G. C., assignor.)
- Syvertsen, O. C., Taunton, Mass. Water-heater. No. 920,687; May 4; Sp. p. 1214; Gaz. vol. 142; p. 196.
- Szarka, M., Epton, Pa. Agricultural implement. No. 937,485; Oct. 19; Sp. p. 3961; Gaz. vol. 147; p. 672.
- Száva, J., assignor of one-half to A. Kiraly, McKeesport, Pa. Washing-machine. No. 942,758; Dec. 7; Sp. p. 1497; Gaz. vol. 149; p. 246.
- Szax, M., assignor of one-half to A. Kriztmann, Budapest, Austria-Hungary. Automatic shearing device. No. 909,476; Jan. 12; Sp. p. 2110; Gaz. vol. 138; p. 375.
- Széchenyi, E. (See Koszegi and Széchenyi.)
- Szekfi, S., Red Bluff, Cal. Pruning-knife. No. 919,977; Apr. 27; Sp. p. 6444; Gaz. vol. 141; p. 1101.
- Szesny, G., Chicago, Ill. Dust-collector. No. 935,066; Sept. 28; Sp. p. 4215; Gaz. vol. 146; p. 754.
- Sznutchko, S., and E. W. Stevenson, Oakdale, Pa. Car-coupling. No. 914,895; Mar. 9; Sp. p. 2603; Gaz. vol. 140; p. 435.

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- Szücs, V., Barberton, Ohio. Clutch mechanism. No. 937,556; Oct. 19; Sp. p. 4104; Gaz. vol. 147; p. 695.
- Szymanski, J. J., Toledo, Ohio. Combined bevel, square, and callipers. No. 936,746; Oct. 12; Sp. p. 2405; Gaz. vol. 147; p. 400.
- Szymanski, W., assignor of one-half to G. H. Molden, Bridgeport, Conn. Lock. No. 911,088; Feb. 2; Sp. p. 126; Gaz. vol. 139; p. 24.
- T. C. Prouty Company. (See Hughes, G. M., assignor.)
- T. L. Smith Company. (See Smith, A. E., assignor.)
- T. L. Smith Company. (See Smith and Meyer, assignors.)
- T. L. Smith Company. (See Symons, E. B., assignor.)
- T. R. Almond Manufacturing Co. (See Bradley, J., assignor.)
- T. W. Post Company. (See Post, T. W., assignor.)
- Taarud, C., Tracy, Minn. Pillow. No. 918,391; Apr. 13; Sp. p. 2896; Gaz. vol. 141; p. 511.
- Taber, F., Elvins, Mo. Chain grate. No. 919,088; Apr. 20; Sp. p. 4401; Gaz. vol. 141; p. 769.
- Taber, J. P., *et al.* (See Garrett, J. J., assignor.)
- Tabler, H. K., Plymouth, Ill. Gate. No. 913,581; Feb. 23; Sp. p. 5295; Gaz. vol. 139; p. 937.
- Tabor, J. U., Los Angeles, Cal. Door-securer. No. 928,820; July 20; Sp. p. 4378; Gaz. vol. 144; p. 763.
- Tabor Manufacturing Company. (See Lewis, W., assignor.)
- Tabor Manufacturing Company. (See Lewis, W., assignor.) (Reissue.)
- Tabor Manufacturing Company. (See Taylor and Lewis, assignors.)
- Tacchi, P. G., Acton, England. Spanner or the like. No. 912,507; Feb. 16; Sp. p. 3053; Gaz. vol. 139; p. 552.
- Tackabury, W. W., *et al.* (See Shank, A. W., assignor.)
- Tackman, G. H., Chicago, Ill. Hatch-cover. No. 935,431; Sept. 28; Sp. p. 4932; Gaz. vol. 146; p. 871.
- Tacon, E., *et al.* (See Brodton, A. L., assignor.)
- Tacon, E. G., *et al.* (See Brodton, A. L., assignor.)
- Tacony Iron Company. (See Pitman, R. A., assignor.)
- Tacy, E. M., assignor to Soeasy Garter Company, Philadelphia, Pa. Garment-supporter. No. 912,204; Feb. 9; Sp. p. 2393; Gaz. vol. 139; p. 412.
- Taft, A. H. (See Pine and Taft.)
- Taft, A. H., Troy, N. Y. Shoe-tree. No. 935,615; Nov. 2; Sp. p. 392; Gaz. vol. 148; p. 59.
- Taft, A. H., Troy, N. Y. Shoe-tree. (Reissue.) No. 13,057; Dec. 14; Sp. p. 3490; Gaz. vol. 149; p. 580.
- Taft, C. L. (See McCall and Taft.)
- Taft, E. E., assignor to Taft Manufacturing Company, Mount Pleasant Iowa. Pipe-hanger. No. 928,711; July 20; Sp. p. 4170; Gaz. vol. 144; p. 277.
- Taft, M. D. (See Fisk and Taft.)
- Taft Manufacturing Company. (See Taft, E. E., assignor.)
- Taft, S. B., *et al.* (See Landry, L. H., assignor.)
- Taft, S. E. (See Gooding and Taft.)
- Taft, W. W., Oxford, Mass. Cloth-bolt board. No. 912,630; Feb. 16; Sp. p. 3327; Gaz. vol. 139; p. 596.
- Taggart, E. E., New York, N. Y. Buoy. No. 921,180; May 11; Sp. p. 2215; Gaz. vol. 142; p. 390.
- Tagliabue, C. J. (See Hohmann, A. B., assignor.)
- Tagliabue, C. J. (See Roesch, A., assignor.)
- Tagliabue, C. J. (See Ruff, W. J., assignor.)
- Tagliabue, C. L. (See Hiergesell, E., assignor.)
- Tailon, D., *et al.* (See Desy, I., assignor.)
- Taira, T., Fresno, Cal. Controlling-switch for moving-picture machines and stereopticons. No. 939,110; Nov. 2; Sp. p. 1402; Gaz. vol. 148; p. 228.
- Taisey, F. R., Indianapolis, Ind., assignor to Lamson Consolidated Store Service Company, Boston, Mass. Pneumatic-despatch apparatus. No. 936,056; Oct. 5; Sp. p. 966; Gaz. vol. 147; p. 145.
- Tait, E. E., Bradford, Pa. Loose-leaf holder. No. 941,963; Nov. 30; Sp. p. 7716; Gaz. vol. 148; p. 1299.
- Tait, G. M. S., Montclair, N. J., and C. Ellis, White Plains, N. Y. Internal-combustion engine. No. 911,345; Feb. 2; Sp. p. 627; Gaz. vol. 139; p. 108.
- Tait, W. E., and H. Nicoll, Beverly, Mass. Skate. No. 911,346; Feb. 2; Sp. p. 632; Gaz. vol. 139; p. 108.
- Takacs, S., Chicago, Ill. Combined shear, punch, and bending machine. No. 942,680; Dec. 7; Sp. p. 1342; Gaz. vol. 149; p. 221.
- Talarico, P., New Britain, Conn. Smoker's pipe. No. 924,508; June 8; Sp. p. 3033; Gaz. vol. 143; p. 496.
- Talbert, D. H., Indianapolis, Ind. Game apparatus. No. 909,708; Jan. 12; Sp. p. 2568; Gaz. vol. 138; p. 455.
- Talbert, D. H., Indianapolis, Ind. Game apparatus. No. 916,056; Mar. 23; Sp. p. 4913; Gaz. vol. 140; p. 870.
- Talbert, T. J. (See Marquardt, G. H., assignor.)
- Talbot, F. M., Glen Ridge, N. J. Apparatus for laying concrete road-beds. No. 926,443; June 29; Sp. p. 7007; Gaz. vol. 143; p. 1234.
- Talbot, F. M., Glen Ridge, N. J. Form for lining tunnels. No. 934,768; Sept. 21; Sp. p. 3601; Gaz. vol. 146; p. 628.
- Talbot, O. H., Eldorado Springs, Mo. Photographic-plate holder. No. 922,356; May 18; Sp. p. 4622; Gaz. vol. 142; p. 803.
- Talcott, F. L., New York, N. Y., assignor to Solox Chemical Company. Apparatus for applying internal massage. No. 912,205; Feb. 9; Sp. p. 2394; Gaz. vol. 139; p. 413.
- Talcott, F. T., assignor of one-half to J. C. Topper, Ashtabula, Ohio. Lubricating apparatus. No. 918,392; Apr. 13; Sp. p. 2897; Gaz. vol. 141; p. 511.
- Talcum Puff Company. (See Page, P. E., assignor.)
- Taliaferro, E. E., Colorado Springs, Colo. Type-bar. No. 925,852; June 22; Sp. p. 5801; Gaz. vol. 143; p. 1004.
- Taliaferro, J. C. (See Krummel and Taliaferro.)
- Talley, H. (See Bent and Talley.)
- Talley, H., Joplin, Mo. Mixing-machine for explosives. No. 940,216; Nov. 16; Sp. p. 3924; Gaz. vol. 148; p. 667.
- Talley, O. P., Chicago, Ill. Button. No. 926,515; June 29; Sp. p. 7125; Gaz. vol. 143; p. 1258.
- Tallmadge, A. P., Washington, D. C. Automatic faucet. No. 916,499; Mar. 30; Sp. p. 5788; Gaz. vol. 140; p. 1042.
- Tallmadge, W. E., *et al.* (See Meyers, H. E., assignor.)
- Tallman, H. M., Shelbyville, Ill. Baling-press. No. 910,741; Jan. 26; Sp. p. 4724; Gaz. vol. 138; p. 858.
- Tallman, N. H. (See Wilson and Tallman.)
- Tallman, W. K. (See Krieger and Tallman.)
- Tallmadge, J. M., Brooklyn, N. Y. Article-coating process. No. 933,598; Sept. 7; Sp. p. 1301; Gaz. vol. 146; p. 193.
- Tamassy, Z., assignor of one-third to Z. B. Csiky and one-third to E. Ots, Cleveland, Ohio. Solder for aluminum. No. 931,523; Aug. 17; Sp. p. 3993; Gaz. vol. 145; p. 688.
- Tambach, R., assignor to Knoll and Company, Ludwigshafen-on-the-Rhine, Germany. Digitalis extract. No. 943,578; Dec. 14; Sp. p. 3298; Gaz. vol. 149; p. 556.
- Tambour, J. (See Köffer, T., assignor.)
- Tambour, J., Nanterre, near Paris, France. Automatic safety device for small-arms. No. 916,217; Mar. 23; Sp. p. 5203; Gaz. vol. 140; p. 921.
- Tambour, J., Nanterre, near Paris, France. Automatic safety device for the strikers or firing-bolts of small-arms. No. 938,349; Oct. 26; Sp. p. 5765; Gaz. vol. 147; p. 981.
- Tambour, J., Nanterre, near Paris, France. Automatic safety appliance for pistols, &c. No. 939,111; Nov. 2; Sp. p. 1405; Gaz. vol. 148; p. 228.
- Tambour, J., Nanterre, near Paris, France. Small-arm. No. 939,112; Nov. 2; Sp. p. 1407; Gaz. vol. 148; p. 229.
- Tangney, D., Philadelphia, Pa. Safety connection for gas-fixtures. No. 937,891; Oct. 26; Sp. p. 4778; Gaz. vol. 147; p. 826.
- Tanner, A., Brookfield, Mo. Mortise-lock. No. 936,185; Oct. 5; Sp. p. 1229; Gaz. vol. 147; p. 185.
- Tanner, F. J., Groton, N. Y., assignor to Union Typewriter Company. Tabulating device for type-writing machines. No. 912,508; Feb. 16; Sp. p. 3054; Gaz. vol. 139; p. 552.
- Tanner, F. J., and E. F. Griffin, assignors to International Text Book Company, Scranton, Pa. Type-writing machine. No. 929,896; Aug. 3; Sp. p. 592; Gaz. vol. 145; p. 93.
- Tanner, F. J., and I. E. Jones, assignors to International Text Book Company, Scranton, Pa. Type-writing machine. No. 938,350; Oct. 26; Sp. p. 5768; Gaz. vol. 147; p. 981.
- Tanner, J. J., Clover, Utah. Rotary engine. No. 915,635; Mar. 16; Sp. p. 4085; Gaz. vol. 140; p. 706.
- Tanner, J. J., Petaluma, Cal. Amusement device. No. 938,179; Oct. 26; Sp. p. 5412; Gaz. vol. 147; p. 923.
- Tanner, J. R., assignor to Pittsburgh Valve, Foundry and Construction Company, Pittsburg, Pa. Non-return valve. No. 916,218; Mar. 23; Sp. p. 5204; Gaz. vol. 140; p. 921.
- Tanner, J. R., assignor to Pittsburgh Valve, Foundry & Construction Company, Pittsburg, Pa. Flange for tubes. No. 918,926; Apr. 20; Sp. p. 4099; Gaz. vol. 141; p. 719.
- Tanner, L., assignor of one-half to A. Wessnes, Houston, Tex. Track-raising machine. No. 932,829; Aug. 31; Sp. p. 6779; Gaz. vol. 145; p. 1162.
- Tanner, T., Dallas, Tex. Station-indicator. No. 921,181; May 11; Sp. p. 2216; Gaz. vol. 142; p. 390.



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- Tanner, W. J., Bridgeport, Conn. Sound-box. No. 908,625; Jan. 5; Sp. p. 407; Gaz. vol. 138; p. 66.
- Tanner, W. N., assignor to Allis-Chalmers Company, Milwaukee, Wis. Safety journal-box. No. 923,462; June 1; Sp. p. 788; Gaz. vol. 143; p. 117.
- Tanning, L. (See Ryan and Tanning.)
- Tanron, C., San Francisco, Cal. Game-board. No. 938,180; Oct. 26; Sp. p. 5414; Gaz. vol. 147; p. 924.
- Tapia, J. R., *et al.* (See Sandford, G. W., assignor.)
- Taplin, A., Forestville, Conn. Machine for washing oranges. No. 937,970; Oct. 26; Sp. p. 4942; Gaz. vol. 147; p. 852.
- Tapling, F. E., Bucyrus, Ohio. Automatic sash and transom center. No. 931,810; Aug. 24; Sp. p. 4637; Gaz. vol. 145; p. 803.
- Tapp, J. L., *et al.* (See Smith, H. K., assignor.)
- Tappe, E. A. (See Long and Tappe.)
- Taproge, M., Neheim, Germany. Cloth bookbinding. No. 940,287; Nov. 16; Sp. p. 4076; Gaz. vol. 148; p. 691.
- Tarara, F. A., St. Paul, Minn. Smoking appliance. No. 914,991; Mar. 9; Sp. p. 2752; Gaz. vol. 140; p. 464.
- Tarbox, J. P., Washington, D. C. Machine for shaping oar-blades. No. 935,333; Sept. 28; Sp. p. 4737; Gaz. vol. 146; p. 841.
- Tarbox, J. P., Washington, D. C. Machine for forming blades of oars. No. 935,334; Sept. 28; Sp. p. 4746; Gaz. vol. 146; p. 841.
- Tarbox, J. P., Washington, D. C., assignor to General Electric Company. Motor-controlling device. No. 917,183; Apr. 6; Sp. p. 448; Gaz. vol. 141; p. 78.
- Tarentum Manufacturing Company. (See Hafer, T., assignor.)
- Tarkowski, C. S. (See Stawartz, J., assignor.)
- Tarr, A. F., Franklin, Pa. Burial-vault. No. 918,393; Apr. 13; Sp. p. 2899; Gaz. vol. 141; p. 512.
- Tarr, R. A., Bedminster, assignor to L. Dunn, Bristol, England. Grate for steam-generator furnaces. No. 927,295; July 6; Sp. p. 1213; Gaz. vol. 144; p. 199.
- Tascher, A. (See Tascher, J. E. and A.)
- Tascher, J. E. and A., Bordeaux, France. Machine for the manufacture of corrugated paper envelops suitable for packing bottles, &c. No. 924,854; June 15; Sp. p. 3777; Gaz. vol. 143; p. 646.
- Tash, W. A., Danville, Ill. Floor-surfacing machine. No. 914,202; Mar. 2; Sp. p. 1171; Gaz. vol. 140; p. 183.
- Tasker, F. E. (See Rice, J. V., Jr., assignor.)
- Tassey, J. C., Nashville, Tenn., assignor of one-fourth to R. B. Salmons, Bowling Green, Ky., one-fourth to S. A. Holt, and one-fourth to L. E. Holt, Nashville, Tenn. Boiler-tube expander. No. 943,579; Dec. 14; Sp. p. 3299; Gaz. vol. 149; p. 556.
- Tasto, J., Treynor, Iowa. Torpedo. No. 941,111; Nov. 23; Sp. p. 5880; Gaz. vol. 148; p. 991.
- Tate, A. O., Toronto, Ontario, Canada. Bifunctional storage-battery plate. No. 926,710; June 29; Sp. p. 7498; Gaz. vol. 143; p. 1322.
- Tate, A. O., Toronto, Ontario, Canada. Waterproofing fibrous materials. No. 933,861; Sept. 14; Sp. p. 1837; Gaz. vol. 146; p. 303.
- Tate, A. O., Toronto, Ontario, Canada, assignor to Tate Electrolytic Company of America. Storage battery. No. 940,288; Nov. 16; Sp. p. 4076; Gaz. vol. 148; p. 691.
- Tate, C. P., Ludington, La. Wedge-key. No. 916,219; Mar. 23; Sp. p. 5205; Gaz. vol. 140; p. 922.
- Tate Electrolytic Company of America. (See Tate, A. O., assignor.)
- Tate, F. C., Des Moines, Iowa. Foot-rest. No. 917,184; Apr. 6; Sp. p. 450; Gaz. vol. 141; p. 79.
- Tate, F. C., Des Moines, Iowa. Reclining-chair. No. 922,209; May 18; Sp. p. 4356; Gaz. vol. 142; p. 257.
- Tatelbaum, W., assignor of one-third to Sigeloff Bros. Hardware Company, St. Louis, Mo. Amplifying-horn. No. 931,161; Aug. 17; Sp. p. 3249; Gaz. vol. 145; p. 566.
- Tatham, C., New York, N. Y. Apparatus for the manufacture of lead-incased wire or cables for electric and other purposes. No. 911,459; Feb. 2; Sp. p. 829; Gaz. vol. 139; p. 145.
- Tatman, F. M., Jewell, Kans. Calf-weaner. No. 928,080; July 13; Sp. p. 2854; Gaz. vol. 144; p. 487.
- Tatman, J. C., Denver, Colo. Ore-grinding machine. No. 943,486; Dec. 14; Sp. p. 3114; Gaz. vol. 149; p. 525.
- Tator, L. A., assignor of one-third to C. H. Wilson and one-third to M. W. Wilson, Milan, Mich. Middlings-purifier. No. 930,504; Aug. 10; Sp. p. 1776; Gaz. vol. 145; p. 319.
- Tatrom, T. D., *et al.* (See Leftwich, F. H., assignor.)
- Tattoon, P. E., Revere, Mass. Parting foundation for wigs. No. 941,744; Nov. 30; Sp. p. 7252; Gaz. vol. 148; p. 1223.
- Tatum, C. A. (See Hutchinson, W. F., assignor.)
- Tatum, C. A. (See Keene, J. R., assignor.)
- Tatum, C. A. (See Parker, W. H., assignor.)
- Tatum, H., Elba, Ala. Combined planter and fertilizer-distributor. No. 923,909; June 8; Sp. p. 1805; Gaz. vol. 143; p. 300.
- Tatum, J. J., Baltimore, Md. Automatic door-latch. No. 935,946; Oct. 5; Sp. p. 739; Gaz. vol. 147; p. 109.
- Tatum, L. L., Norwood, Ohio, assignor to Cutler-Hammer Mfg. Co., Milwaukee, Wis. Multiple-switch starter. No. 918,608; Apr. 20; Sp. p. 3365; Gaz. vol. 141; p. 610.
- Tatum, L. L., Norwood, Ohio, assignor to Cutler-Hammer Mfg. Co., Milwaukee, Wis. Multiple-switch starter. No. 918,609; Apr. 20; Sp. p. 3370; Gaz. vol. 141; p. 610.
- Taube, R., New York, N. Y. Sash-lock. No. 928,408; July 20; Sp. p. 3558; Gaz. vol. 144; p. 629.
- Tauber, I., Vienna, Austria-Hungary. Insole or support for deformed feet. No. 940,564; Nov. 16; Sp. p. 4711; Gaz. vol. 148; p. 784.
- Taubert, G., Pittsfield, Mass. Mold for concrete-wall construction. No. 913,441; Feb. 23; Sp. p. 4975; Gaz. vol. 139; p. 891.
- Tauriello, D., Newport, R. I. Track-sander. No. 943,487; Dec. 14; Sp. p. 3117; Gaz. vol. 149; p. 526.
- Taussig, M., Chicago, Ill. Shelving. No. 934,475; Sept. 21; Sp. p. 3034; Gaz. vol. 146; p. 529.
- Tavener, D. J., Washington, D. C. Tenter-frame. No. 918,220; Apr. 13; Sp. p. 2559; Gaz. vol. 141; p. 456.
- Tavannes Watch Co. (See Sandoz, H., assignor.)
- Tavella, F., Varazze, Italy, assignor of two-thirds to H. Chiariglione and F. Badano, Pueblo, Colo. Loom. No. 922,357; May 18; Sp. p. 4624; Gaz. vol. 142; p. 804.
- Tavernetti, P., assignor of one-fourth to F. P. Feliz, Salinas, Cal. Adjustable wrench and tool. No. 911,629; Feb. 9; Sp. p. 1199; Gaz. vol. 139; p. 227.
- Tavernor, J. M. (See Rhodes, Hirst, Parker, and Tavernor.)
- Tawlkis, A., assignor of one-half to I. D. Clark, Harvey, N. D. Car-coupling. No. 921,482; May 11; Sp. p. 2854; Gaz. vol. 142; p. 491.
- Taxis, F. C., St. Louis, Mo. Concrete floor construction. No. 910,971; Jan. 26; Sp. p. 5169; Gaz. vol. 138; p. 932.
- Taxon, L. (See Nystrom and Taxon.)
- Taxter, C. and H., North Tarrytown, N. Y. Attachment for printing-presses. No. 930,632; Aug. 10; Sp. p. 2087; Gaz. vol. 145; p. 364.
- Taxter, H. (See Taxter, C. and H.)
- Taylor, A. A., Lincoln, Nebr. Cabinet for clothes-rack arms. No. 928,081; July 13; Sp. p. 2855; Gaz. vol. 144; p. 487.
- Taylor, A. C. (See Winfield and Taylor.)
- Taylor, A. C., Richmond, Va. Invalid-bed. No. 923,729; June 1; Sp. p. 1351; Gaz. vol. 143; p. 210.
- Taylor, A. F., assignor, by mesne assignments, to R. S. Davison, Halifax, Nova Scotia, Canada. Grease-cup. No. 931,659; Aug. 17; Sp. p. 4274; Gaz. vol. 145; p. 730.
- Taylor, A. H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Meter. No. 934,107; Sept. 14; Sp. p. 2325; Gaz. vol. 146; p. 381.
- Taylor, A. K., Jacksonville, Fla. Bed. No. 928,821; July 20; Sp. p. 4380; Gaz. vol. 144; p. 763.
- Taylor, A. M., *et al.* (See Wyatt, G. R., assignor.)
- Taylor, B. J., Toledo, Ohio. Burner adjustment for gas-ranges. No. 911,916; Feb. 9; Sp. p. 1739; Gaz. vol. 139; p. 321.
- Taylor, C. A. (See Mills and Taylor.)
- Taylor, C. D. (See Alford, D., assignor.)
- Taylor, C. G., Holyoke, Mass. Device for incising the ends of cigars. No. 915,807; Mar. 23; Sp. p. 4442; Gaz. vol. 140; p. 789.
- Taylor, C. L., Seabro, W. Va. Fireplace. No. 926,910; July 6; Sp. p. 422; Gaz. vol. 144; p. 69.
- Taylor, C. L., assignor to Morgan Engineering Company, Alliance, Ohio. Roller-table for three-high roll-mills. No. 916,500; Mar. 30; Sp. p. 5791; Gaz. vol. 140; p. 1042.
- Taylor, C. L., assignor to Morgan Engineering Company, Alliance, Ohio. Electric controller. No. 942,981; Dec. 14; Sp. p. 2037; Gaz. vol. 149; p. 353.
- Taylor, C. L., and E. E. Brosius, assignors to Morgan Engineering Company, Alliance, Ohio. Ladle or double-trolley electric crane. No. 920,215; May 4; Sp. p. 251; Gaz. vol. 142; p. 40.
- Taylor & Co. (See Christl, J. V., assignor.)
- Taylor, D. E., Willimantic, Conn. Head-gear for supporting lights. No. 933,499; Sept. 7; Sp. p. 1118; Gaz. vol. 146; p. 160.
- Taylor, D. L. (See Hanford and Taylor.)
- Taylor, E., New York, N. Y. Union garment. No. 920,688; May 4; Sp. p. 1215; Gaz. vol. 142; p. 196.
- Taylor, E., Brooklyn, N. Y., assignor to Gerard Development Company. Method and means of utilizing volatile liquids as a motive power. No. 939,757; Nov. 9; Sp. p. 2906; Gaz. vol. 148; p. 477.
- Taylor, E. A., Steilacoom, Wash. Developing-machine for photographic films. No. 938,287; Oct. 26; Sp. p. 5619; Gaz. vol. 147; p. 960.

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- Taylor, E. H. (See Evans and Taylor.)
- Taylor, E. H., assignor of four-tenths to H. L. Armstrong, Birmingham, Ala. Ironing-comb for straightening hair. No. 917,680; Apr. 6; Sp. p. 1388; Gaz. vol. 141; p. 245.
- Taylor, E. R., Penn Yan, N. Y. Electric smelting-furnace. No. 938,351; Oct. 26; Sp. p. 5769; Gaz. vol. 147; p. 982.
- Taylor, E. R., Penn Yan, N. Y. Electric smelting. No. 938,352; Oct. 26; Sp. p. 5783; Gaz. vol. 147; p. 982.
- Taylor, E. R., Boston, Mass. Shoe-filler. No. 944,112; Dec. 21; Sp. p. 4475; Gaz. vol. 149; p. 769.
- Taylor, E. Z., assignor to Mono Service Vessels, Limited, London, England. Cutting blanks. No. 935,826; Oct. 5; Sp. p. 492; Gaz. vol. 147; p. 70.
- Taylor, F. E. (See Ford and Taylor.)
- Taylor, F. L. (See Tolman and Taylor.)
- Taylor, F. L., Tyler, Tex. Clothes-clamp for bedsteads. No. 944,056; Dec. 21; Sp. p. 4353; Gaz. vol. 149; p. 750.
- Taylor, F. P., Auburn, assignor of one-half to National Shoemakers, Lewiston, Me. Stitch-separating machine. No. 938,400; Oct. 26; Sp. p. 5891; Gaz. vol. 147; p. 999.
- Taylor, F. W., and W. Lewis, Philadelphia, Pa., assignors to Tabor Manufacturing Company, Camden, N. J. Method of and apparatus for forming molds. No. 925,249; June 15; Sp. p. 4559; Gaz. vol. 143; p. 779.
- Taylor, F. W., and H. Van Duzee, Philadelphia, Pa. Apparatus for moving growing trees and the like. No. 944,522; Dec. 28; Sp. p. 5373; Gaz. vol. 149; p. 935.
- Taylor, G. B., Birmingham, England. Spiral chuck. No. 923,730; June 1; Sp. p. 1354; Gaz. vol. 143; p. 211.
- Taylor, G. F., and H. Rochefort, Kings Heath, near Birmingham, England. Grinding-machine. No. 914,763; Mar. 9; Sp. p. 2338; Gaz. vol. 140; p. 392.
- Taylor, G. H., Norfolk, Va. Tag. No. 924,946; June 15; Sp. p. 3964; Gaz. vol. 143; p. 677.
- Taylor, G. W., Leyton, and J. P. Muller, Stratford, assignors to A. C. Hill, London, England. Tool for securing the covers in paint-tins and the like. No. 909,254; Jan. 12; Sp. p. 1681; Gaz. vol. 138; p. 303.
- Taylor, H. A. (See Donahoe and Taylor.)
- Taylor, H. E., Kansas City, Mo. Clothes-drainer. No. 912,331; Feb. 16; Sp. p. 2703; Gaz. vol. 139; p. 494.
- Taylor, H. E. P., Seymour, Conn. Beam-compass. No. 928,712; July 20; Sp. p. 4171; Gaz. vol. 144; p. 727.
- Taylor, H. H., Bridgeport, Conn. Garment-clasp. No. 910,879; Jan. 26; Sp. p. 5002; Gaz. vol. 138; p. 902.
- Taylor, H. H., San Jose, assignor of one-half to himself, and one-half to F. J. Mayhew, San Francisco, Cal. Spring-wheel. No. 939,565; Nov. 9; Sp. p. 2470; Gaz. vol. 148; p. 409.
- Taylor, H. H., San Jose, assignor of one-half to himself, and one-half to F. J. Mayhew, San Francisco, Cal. Temperature-controlled transmission mechanism. No. 939,566; Nov. 9; Sp. p. 2472; Gaz. vol. 148; p. 410.
- Taylor, I. F., East Dulwich, London, England. Crane, fire-escape, and similar apparatus. No. 919,393; Apr. 27; Sp. p. 5223; Gaz. vol. 141; p. 905.
- Taylor Instrument Companies. (See Maurer, H. W., assignor.)
- Taylor Instrument Companies. (See Norwood, H. Y., assignor.)
- Taylor Iron & Steel Company. (See Exton and Sherrerd, assignors.)
- Taylor Iron & Steel Company. (See Howe, H. M., assignor.)
- Taylor Iron & Steel Company. (See Phelps, F. A., assignor.)
- Taylor, J., Liverpool, England. Track-rail sand. No. 924,202; June 8; Sp. p. 2429; Gaz. vol. 143; p. 396.
- Taylor, J., Jr. (See Taylor, J. A. S. and J., Jr.)
- Taylor, J., and E. W. Buckley, Manchester, England. Mechanical weft-feeling mechanism for looms. No. 915,248; Mar. 16; Sp. p. 3299; Gaz. vol. 140; p. 576.
- Taylor, J., and E. W. Buckley, Manchester, England. Mechanical weft-feeling mechanism for looms. No. 934,372; Sept. 14; Sp. p. 2826; Gaz. vol. 146; p. 472.
- Taylor, J. A., Birmingham, Ala. Engine-moving brake-lever. No. 943,715; Dec. 21; Sp. p. 3644; Gaz. vol. 149; p. 633.
- Taylor, J. A. S. and J., Jr., Philadelphia, Pa. Locking-hook. No. 909,037; Jan. 5; Sp. p. 1232; Gaz. vol. 138; p. 198.
- Taylor, J. B., Auburn, N. Y. Lifting-jack. No. 911,089; Feb. 2; Sp. p. 131; Gaz. vol. 139; p. 24.
- Taylor, J. B., Schenectady, N. Y. Sound-locating device. No. 939,349; Nov. 9; Sp. p. 1989; Gaz. vol. 148; p. 337.
- Taylor, J. B., Jr., East Liverpool, Ohio. Air-cushion for automobiles. No. 914,896; Mar. 9; Sp. p. 2604; Gaz. vol. 140; p. 435.
- Taylor, J. B., Schenectady, N. Y., assignor to General Electric Company. Neutralizing inductive disturbances. No. 920,097; Apr. 27; Sp. p. 6719; Gaz. vol. 141; p. 1140.
- Taylor, J. B., and W. S. Bralley, Schenectady, N. Y., assignors to General Electric Company. Telephone jack-box. No. 919,394; Apr. 27; Sp. p. 5227; Gaz. vol. 141; p. 905.
- Taylor, J. B., and D. S. Carpenter, Schenectady, N. Y., assignors to General Electric Company. Protective device for electric circuits. No. 925,054; June 15; Sp. p. 4194; Gaz. vol. 143; p. 714.
- Taylor, J. C., New York, N. Y. Tire. No. 920,216; May 4; Sp. p. 252; Gaz. vol. 142; p. 40.
- Taylor, J. C., New York, N. Y. Tire. No. 942,149; Dec. 7; Sp. p. 270; Gaz. vol. 149; p. 41.
- Taylor, J. D., Pittsburg, Pa. Thermo-electric generation. No. 941,826; Nov. 30; Sp. p. 7442; Gaz. vol. 148; p. 1251.
- Taylor, J. D., New York, N. Y., assignor to Union Switch and Signal Company, Swissvale, Pa. Railway switching apparatus. No. 916,220; Mar. 23; Sp. p. 5206; Gaz. vol. 140; p. 922.
- Taylor, J. E., La Harpe, Ill. Display-rack. No. 929,897; Aug. 3; Sp. p. 595; Gaz. vol. 145; p. 93.
- Taylor, J. H., Chicago, Ill. Making welded pipe. No. 916,501; Mar. 30; Sp. p. 5793; Gaz. vol. 140; p. 1043.
- Taylor, J. H., Waterloo, Nebr. Reinforced revetment. No. 929,728; Aug. 3; Sp. p. 190; Gaz. vol. 145; p. 33.
- Taylor, J. L., Bloomfield, N. J. Miter-clamp. No. 941,825; Nov. 30; Sp. p. 7440; Gaz. vol. 148; p. 1251.
- Taylor, J. M., assignor to Plus and Minus Desk Company, Bladell, N. Y. School-desk. No. 915,903; Mar. 23; Sp. p. 4624; Gaz. vol. 140; p. 820.
- Taylor, J. S., assignor of one-half to L. B. Stewart, Scottsburg, Ind. Combined bevel and square. No. 935,067; Sept. 28; Sp. p. 4217; Gaz. vol. 146; p. 754.
- Taylor, J. T. (See Tolley and Taylor.)
- Taylor, J. T. (See Weatherly, J. R., assignor.)
- Taylor, K., Frankfort, Ky. Nail-seal. No. 917,907; Apr. 13; Sp. p. 1919; Gaz. vol. 141; p. 347.
- Taylor, L., Swarthmore, Pa. Method and apparatus for determining proportions in compounds and mixtures. No. 940,217; Nov. 16; Sp. p. 3925; Gaz. vol. 148; p. 667.
- Taylor, L. B., Birmingham, England. Drop-down breech-loading gun. No. 913,784; Mar. 2; Sp. p. 230; Gaz. vol. 140; p. 38.
- Taylor, L. B., Bournbrook, near Birmingham, England. Bullet. No. 914,992; Mar. 9; Sp. p. 2753; Gaz. vol. 140; p. 464.
- Taylor, M. T., Fort Worth, Tex. Garbage-can. No. 926,684; June 29; Sp. p. 7450; Gaz. vol. 143; p. 1313.
- Taylor, N. M., Memphis, Tenn. Stave-jointing machine. No. 942,799; Dec. 7; Sp. p. 1577; Gaz. vol. 149; p. 259.
- Taylor, O. R., Cantonment, Fla. Saw-set. No. 944,391; Dec. 28; Sp. p. 5055; Gaz. vol. 149; p. 889.
- Taylor, P. B., assignor to Tea Tray Company of Newark, N. J. Buffing-machine. No. 928,164; July 13; Sp. p. 3003; Gaz. vol. 144; p. 513.
- Taylor, R. G., assignor to Bettendorf Axle Company, Davenport, Iowa. Dumping-car. No. 911,090; Feb. 2; Sp. p. 133; Gaz. vol. 139; p. 25.
- Taylor, S. A., assignor to Silver Manufacturing Company, Salem, Ohio. Hub-boring machine. No. 922,358; May 18; Sp. p. 4629; Gaz. vol. 142; p. 804.
- Taylor, S. J. (See Orford, H., assignor.)
- Taylor, S. J., et al. (See Konigstein, G., assignor.)
- Taylor, S. W., assignor of two-thirds to G. V. Seyler, Baltimore, Md. Game apparatus. No. 936,057; Oct. 5; Sp. p. 970; Gaz. vol. 147; p. 145.
- Taylor, T., Limited. (See Taylor, T., assignor.)
- Taylor, T., assignor to T. Taylor Limited, Saville Mill, Bolton, England. Woven fabric. No. 922,641; May 25; Sp. p. 5241; Gaz. vol. 142; p. 927.
- Taylor, T., Parkersburg, W. Va., and W. M. Stuart, Mount Oliver borough, Pa. Invalid-bed. No. 926,033; June 22; Sp. p. 6159; Gaz. vol. 143; p. 1063.
- Taylor, T. B., New York, N. Y. Propelling means for vessels. No. 938,911; Nov. 2; Sp. p. 1014; Gaz. vol. 148; p. 161.
- Taylor, T. L., assignor to Pearl Laundry Machinery Company, Atlanta, Ga. Laundry-marking machine. No. 943,203; Dec. 14; Sp. p. 2515; Gaz. vol. 149; p. 427.
- Taylor, T. O. (See Cooley, H. M., assignor.)
- Taylor, T. P., Bridgeport, Conn. Abdomen-compress. No. 915,049; Mar. 9; Sp. p. 2857; Gaz. vol. 140; p. 484.
- Taylor, T. P., Bridgeport, Conn. Abdomen-compress attachment for corsets. No. 915,050; Mar. 9; Sp. p. 2859; Gaz. vol. 140; p. 484.
- Taylor, T. P., Bridgeport, Conn. Abdomen-compress. No. 915,051; Mar. 9; Sp. p. 2860; Gaz. vol. 140; p. 485.
- Taylor, T. P., Bridgeport, Conn. Abdomen-compress. No. 921,026; May 11; Sp. p. 1896; Gaz. vol. 142; p. 336.



*Alphabetical list of patentees—Continued.*

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- Taylor, W., Bermondsey, London, England. Apparatus for the amusement of the public. No. 942,759; Dec. 7; Sp. p. 1499; Gaz. vol. 149; p. 246.
- Taylor, W. D., Williams Bridge, N. Y. Puzzle. No. 913,582; Feb. 23; Sp. p. 5299; Gaz. vol. 139; p. 938.
- Taylor, W. E., assignor to McCreery Engineering Company, Toledo, Ohio. Apparatus for tempering and purifying air. No. 917,185; Apr. 6; Sp. p. 452; Gaz. vol. 141; p. 79.
- Taylor, W. E., Eastport, Me., assignor to American Can Company, New York, N. Y. Automatic-feed can-body machine. No. 942,190; Dec. 7; Sp. p. 347; Gaz. vol. 149; p. 53.
- Taylor, W. H., Fayetteville, Tenn. Umbrella. No. 910,095; Jan. 19; Sp. p. 3347; Gaz. vol. 138; p. 616.
- Taylor, W. H., Stamford, Conn. Telephone apparatus. No. 923,603; June 1; Sp. p. 1108; Gaz. vol. 143; p. 169.
- Taylor, W. H., assignor of two-thirds to H. Bauer and G. B. Dreizler, Philadelphia, Pa. Wire-covering machine. No. 909,709; Jan. 12; Sp. p. 2571; Gaz. vol. 138; p. 455.
- Taylor, W. H., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Time movement. No. 944,159; Dec. 21; Sp. p. 4568; Gaz. vol. 149; p. 784.
- Taylor, W. I., Decatur, Ill. Car-brace. No. 923,463; June 1; Sp. p. 789; Gaz. vol. 143; p. 117.
- Taylor, W. I., Decatur, Ill. Car-brace. No. 929,998; Aug. 3; Sp. p. 800; Gaz. vol. 145; p. 128.
- Taylor, W. L. (See Buchan, J. W., assignor.)
- Taylor, W. L., De Ridder, La. Car-brake. No. 921,309; May 11; Sp. p. 2489; Gaz. vol. 142; p. 432.
- Taylor, W. L., Memphis, Tex. Harness-hanger. No. 933,931; Sept. 14; Sp. p. 1972; Gaz. vol. 146; p. 325.
- Taylor, W. M., Toronto, Ontario, assignor to F. W. Cox and J. Bisset, trustees, Toronto, Canada. Water-coil. No. 916,936; Mar. 30; Sp. p. 6626; Gaz. vol. 140; p. 1180.
- Taylor, W. N. (See Mayo, M. E., assignor.)
- Taylor, W. S., *et al.* (See Gibson, O., assignor.)
- Taylor, W. S., Jr., Salt Lake City, Utah. Mechanical movement. No. 924,509; June 8; Sp. p. 3035; Gaz. vol. 143; p. 497.
- Taylor, W. W., Girard, Pa. Mop or brush handle. No. 917,908; Apr. 13; Sp. p. 1920; Gaz. vol. 141; p. 347.
- Taylor, W. W., Girard, Pa. Handle for saws. No. 936,491; Oct. 12; Sp. p. 1891; Gaz. vol. 147; p. 313.
- Taylor, Z. (See Cosby, W. B., assignor.)
- Taynton, K. W., Tacoma, Wash. Block-signal system. No. 925,611; June 22; Sp. p. 5261; Gaz. vol. 143; p. 925.
- Taynton, C. E., New York, N. Y. Sash-fastener. No. 917,379; Apr. 6; Sp. p. 855; Gaz. vol. 141; p. 146.
- Tea Tray Company of Newark, N. J. (See Beetham, T. J., assignor.)
- Tea Tray Company of Newark, N. J. (See Conger, J. H. B., assignor.)
- Tea Tray Company of Newark, N. J. (See Jones and Glastre, assignors.)
- Tea Tray Company of Newark, N. J. (See Mazanek, B., assignor.)
- Tea Tray Company of Newark, N. J. (See Taylor, P. B., assignor.)
- Teach, J. M., Santa Monica, Cal. Clothes-drying device. No. 932,353; Aug. 24; Sp. p. 5753; Gaz. vol. 145; p. 982.
- Teas, W. H., Ridgway, Pa. Treating partially-tanned leather. No. 916,057; Mar. 23; Sp. p. 4915; Gaz. vol. 140; p. 870.
- Teasdale, G. W., St. Louis, Mo. Carton. No. 933,599; Sept. 7; Sp. p. 1303; Gaz. vol. 146; p. 193.
- Teasdale, G. W., St. Louis, Mo. Carton. No. 938,799; Nov. 2; Sp. p. 743; Gaz. vol. 148; p. 121.
- Teasdale, G. W., New York, assignor of one-half to F. H. Plate, Brooklyn, N. Y. Sinkers. No. 942,597; Dec. 7; Sp. p. 1180; Gaz. vol. 149; p. 192.
- Teat, W. A. (See Fuller, J. A., assignor.)
- Tebbit, A., Medina, Ohio. Catching and killing device. No. 913,858; Mar. 2; Sp. p. 377; Gaz. vol. 140; p. 64.
- Tebbit, A., Medina, Ohio. Device for affixing postage-stamps to letters. No. 928,713; July 20; Sp. p. 4174; Gaz. vol. 144; p. 728.
- Tedesco, F. C., Dickson City, Pa. Folding flower-stand. No. 923,089; May 25; Sp. p. 6171; Gaz. vol. 142; p. 1071.
- Teel, H. T., *et al.* (See Schmidt, G. F., assignor.)
- Teepie, A. H., Rutherford, assignor to Headley and Farmer Company, Harrison, N. J. Sample-trunk. No. 920,217; May 4; Sp. p. 254; Gaz. vol. 142; p. 40.
- Tees, F. G., Philadelphia, Pa. Dash-pot valve. No. 911,917; Feb. 9; Sp. p. 1740; Gaz. vol. 139; p. 322.
- Teetor, C. F., *et al.* (See Hetherington, W., assignor.)
- Tegnell, G. N. (See Dahlberg, S., assignor.)
- Teich, E. L. (See Arens and Teich.)
- Teich, E. L., assignor to P. & F. Corbin, New Britain, Conn. Antifriction-washer for hinges, &c. No. 924,511; June 8; Sp. p. 3038; Gaz. vol. 143; p. 497.
- Teichman, F., San Francisco, Cal. Apparatus for constructing concrete pipes. No. 930,813; Aug. 10; Sp. p. 2447; Gaz. vol. 145; p. 423.
- Teichmann, K., Salzdetfurth, near Hildesheim, Germany. Elevating appliance for use in mines and the like. No. 919,492; Apr. 27; Sp. p. 5475; Gaz. vol. 141; p. 940.
- Teichner, G., Nuremberg, Germany. Electrolytically producing peroxid of hydrogen. No. 916,900; Mar. 30; Sp. p. 6539; Gaz. vol. 140; p. 1167.
- Telechronometer Company. (See Beattie, C. M., assignor.)
- Telegraph Signal Company. (See Wright, S. R., assignor.)
- Telegraph Signal Company. (See Wright and Deihle, assignors.)
- Telepost Company. (See Delany, P. B., assignor.)
- Telescope Mailing Tube Manufacturing Company. (See Gray, H. L., assignor.)
- Teletopograph Signal Company. (See Dougal and Chambers, assignors.)
- Telle, E., New Orleans, La. Dental plate and manufacturing the same. No. 908,626; Jan. 5; Sp. p. 410; Gaz. vol. 138; p. 66.
- Telle, E., New Orleans, La. Attaching teeth to dental plates. No. 908,627; Jan. 5; Sp. p. 412; Gaz. vol. 138; p. 66.
- Telle, E., New Orleans, La. Dental plate. No. 909,038; Jan. 5; Sp. p. 1233; Gaz. vol. 138; p. 198.
- Tellers, H., Erie, Pa. Pipe-organ. No. 911,918; Feb. 9; Sp. p. 1741; Gaz. vol. 139; p. 322.
- Tellerson, H. A., Oakland, Cal. Dispensing-receptacle. No. 936,186; Oct. 5; Sp. p. 1231; Gaz. vol. 147; p. 186.
- Tellerson, H. A., Oakland, Cal. Dispensing-receptacle. No. 936,187; Oct. 5; Sp. p. 1232; Gaz. vol. 147; p. 186.
- Tellier, C., Paris, France. Compressed-air refrigerating apparatus. No. 923,604; June 1; Sp. p. 1109; Gaz. vol. 143; p. 169.
- Teml, J., assignor of one-half to G. A. Schmidt, New York, N. Y. Barrel-press. No. 928,562; July 20; Sp. p. 3867; Gaz. vol. 144; p. 677.
- Temme, L. H., Cleveland, Ohio. Combined abdominal support and truss. No. 917,812; Apr. 13; Sp. p. 1712; Gaz. vol. 141; p. 315.
- Temple, F. L., Terre Haute, Ind. Mechanical movement. No. 944,978; Dec. 28; Sp. p. 6341; Gaz. vol. 149; p. 1088.
- Temple, H. (See Burnet and Temple.)
- Temple, H. (See Burnet, Temple, and Pfeiffer.)
- Temple, H. C. (See Temple, M. A. and H. C.)
- Temple, H. E., Weehawken, N. J., and O. L. Dosch, assignors to National Automatic Tool Co., Dayton, Ohio. Drilling-machine. No. 931,001; Aug. 10; Sp. p. 2872; Gaz. vol. 145; p. 484.
- Temple, M. A., Berlin Heights, and H. C. Temple, Cleveland, Ohio. Rail-base and metal cross-tie for railway-tracks. No. 920,689; May 4; Sp. p. 1216; Gaz. vol. 142; p. 196.
- Temple, S. R., Cincinnati, N. Y. Truck. No. 940,565; Nov. 16; Sp. p. 4712; Gaz. vol. 148; p. 784.
- Templer, H. L., Cleveland, Transvaal. Mine-shaft equipment. No. 944,113; Dec. 21; Sp. p. 4477; Gaz. vol. 149; p. 769.
- Templeton, W. B., Chicago, Ill. Jack. No. 916,502; Mar. 30; Sp. p. 5794; Gaz. vol. 140; p. 1043.
- Templin, J. H. (See Wiedemann and Templin.)
- Ten Eyck, F. E., Auburn, N. Y. Air-pump. No. 924,855; June 15; Sp. p. 3784; Gaz. vol. 143; p. 647.
- Ten Hopen, E. H., Grand Rapids, Mich. Friction-brake. No. 917,909; Apr. 13; Sp. p. 1921; Gaz. vol. 141; p. 348.
- Tenhagen, W. A. (See Lewis, Tenhagen, and Reed.)
- Tennent, B. E., Knights, Transvaal. Assay-furnace. No. 944,470; Dec. 28; Sp. p. 5236; Gaz. vol. 149; p. 917.
- Tennent, E. S. (See Cobb and Fleming, assignors.)
- Tenney, E. L., Chicago, Ill. Match-safe. No. 918,927; Apr. 20; Sp. p. 4100; Gaz. vol. 141; p. 719.
- Tenney, F. P., New York, N. Y., assignor to United Button Company. Buckle. No. 932,596; Aug. 31; Sp. p. 6278; Gaz. vol. 145; p. 1086.
- Tenney, G. S., Walpole, assignor to American Glue Company, Boston, Mass. Buffing-wheel. No. 921,027; May 11; Sp. p. 1897; Gaz. vol. 142; p. 336.
- Tenney, G. S., Walpole, assignor to American Glue Company, Boston, Mass. Shaping abrasive paper. No. 921,028; May 11; Sp. p. 1898; Gaz. vol. 142; p. 336.
- Tenney, P. L., Alameda, Cal. Adjustable drop-light bracket. No. 931,162; Aug. 17; Sp. p. 3251; Gaz. vol. 146; p. 567.
- Tenold, J. A. (See Tenold, O. A. and J. A.)
- Tenold, O. A. and J. A., Northwood, Iowa. Drain-tile and sewer-outlet protector. No. 928,481; July 20; Sp. p. 3706; Gaz. vol. 144; p. 652.
- Tenold, O. A. and J. A., Northwood, Iowa. Sewer and drain-tile outlet protector. No. 929,514; July 27; Sp. p. 5812; Gaz. vol. 144; p. 1020.
- Tempas, G. H., Sherman, N. Y. Belt-guide. No. 936,830; Oct. 12; Sp. p. 2563; Gaz. vol. 147; p. 428.

*Alphabetical list of patentees—Continued.*

- Terheun, R. A., assignor of one-half to D. G. Purse, Jr., Savannah, Ga. Emergency-coupling. No. 915,904; Mar. 23; Sp. p. 4626; Gaz. vol. 140; p. 821.
- Terney, C. F., Buffalo, N. Y. Barrel-valve. No. 938,288; Oct. 26; Sp. p. 5622; Gaz. vol. 147; p. 961.
- Terpening, E. A., Geneseo, Ill. Electroresponsive device. No. 928,345; July 20; Sp. p. 3446; Gaz. vol. 144; p. 607.
- Terramorse, F., San Francisco, Cal. Adjustable ventilator. No. 944,831; Dec. 28; Sp. p. 6045; Gaz. vol. 149; p. 1040.
- Terrell, E., assignor to W. A. Marsh, Columbus, Ohio. Vending-machine. No. 934,634; Sept. 21; Sp. p. 3354; Gaz. vol. 146; p. 584.
- Terrell, E., Columbus, Ohio, assignor to E. V. Gambier, trustee. Type receiving and supporting device. No. 940,087; Nov. 16; Sp. p. 3633; Gaz. vol. 148; p. 621.
- Terrell, T., London, England. Incandescent mantle. No. 943,488; Dec. 14; Sp. p. 3118; Gaz. vol. 149; p. 526.
- Terrell, W. H., Yonkers, N. Y. Door-fender. No. 930,105; Aug. 3; Sp. p. 1021; Gaz. vol. 145; p. 165.
- Terrey, C. A., and W. H. Warren, London, England. Construction and mounting of billiard-tables. No. 926,516; June 29; Sp. p. 7126; Gaz. vol. 143; p. 1258.
- Terrill, B. B. (See Gormley and Terrill.)
- Terry, A. E., Redditch, England. Screw-locking nut. No. 926,517; June 29; Sp. p. 7127; Gaz. vol. 143; p. 1258.
- Terry, E. F., New York, N. Y., assignor to Terry, Tench & Proctor Tunneling Machine Company. Tunneling-machine. No. 917,974; Apr. 13; Sp. p. 2046; Gaz. vol. 141; p. 371.
- Terry, G. C., *et al.* (See Morris, R. C., assignor.)
- Terry, O. N., Lincoln, Nebr., assignor of one-half to J. G. Crawford, Chicago, Ill. Locomotive. No. 936,582; Oct. 12; Sp. p. 2072; Gaz. vol. 147; p. 343.
- Terry, R. A., Omaha, Nebr. Adjustable chart for dressmaking. No. 931,896; Aug. 24; Sp. p. 4801; Gaz. vol. 145; p. 829.
- Terry, Tench & Proctor Tunneling Machine Company. (See Terry, E. F., assignor.)
- Terwilliger, J. L., Florence, Colo. Mill. No. 921,911; May 18; Sp. p. 3749; Gaz. vol. 142; p. 660.
- Terwilliger, W. H., Schenectady, N. Y., assignor to General Electric Company. Motorman's valve. No. 913,583; Feb. 23; Sp. p. 5300; Gaz. vol. 139; p. 938.
- Teschel, G. R., Parkersburg, W. Va. Cuspidor. No. 938,912; Nov. 2; Sp. p. 1018; Gaz. vol. 148; p. 161.
- Teschemacher, A., and A. Sturmo, Eller, near Dusseldorf, Germany. Cutting metal objects. No. 934,235; Sept. 14; Sp. p. 2577; Gaz. vol. 146; p. 426.
- Teske, C., Ray, N. D. Individual hair-spring-stud index for watches and clocks. No. 940,750; Nov. 23; Sp. p. 5116; Gaz. vol. 148; p. 871.
- Tessey, C. H., Leadville, Colo. Gun-sight. No. 916,058; Mar. 23; Sp. p. 4916; Gaz. vol. 140; p. 871.
- Tesseyman, J. E. (See Irwin and Tesseyman.)
- Tesseyman, J. E., assignor to Ralston Steel Car Company, Columbus, Ohio. Car. No. 932,728; Aug. 31; Sp. p. 6565; Gaz. vol. 145; p. 1131.
- Tesseyman, J. E., assignor to Ralston Steel Car Company, Columbus, Ohio. Car-underframe. No. 933,005; Aug. 31; Sp. p. 7090; Gaz. vol. 145; p. 1220.
- Tessmer, F. A., St. Louis, Mo. Blanket for lithographic presses. No. 924,016; June 8; Sp. p. 2013; Gaz. vol. 143; p. 334.
- Tetlow, L. J., assignor to New England Trolley Wheel Company, Holyoke, Mass. Trolley-wheel. No. 910,433; Jan. 19; Sp. p. 4092; Gaz. vol. 138; p. 733.
- Tetlow, L. J., assignor to New England Trolley Wheel Company, Holyoke, Mass. Trolley-harp. No. 919,263; Apr. 20; Sp. p. 4925; Gaz. vol. 141; p. 826.
- Tétrault, J. J., Moosup, Conn. Skirt hanger and stretcher. No. 942,525; Dec. 7; Sp. p. 1045; Gaz. vol. 149; p. 169.
- Teuber, G., Laasphe, Germany. Electric heating apparatus. No. 917,504; Apr. 6; Sp. p. 1072; Gaz. vol. 141; p. 188.
- Teufel, H. P., Pittsburg, Pa. Life-saving device. No. 934,855; Sept. 21; Sp. p. 3783; Gaz. vol. 146; p. 656.
- Tevander, O. N., assignor to A. H. Apfel, Chicago, Ill. Massaging implement. No. 915,315; Mar. 16; Sp. p. 3422; Gaz. vol. 140; p. 597.
- Tevander, O. N., and A. Manierre, Chicago, Ill. Bottle closure and seal. No. 942,421; Dec. 7; Sp. p. 808; Gaz. vol. 149; p. 132.
- Tevander, S., Toledo, Ohio, assignor to American Can Company, New York, N. Y. Bail-ear. No. 922,971; May 25; Sp. p. 5926; Gaz. vol. 142; p. 1033.
- Tevander, S., Toledo, Ohio, assignor to American Can Company, New York, N. Y. Screw-cap nozzle for cans. No. 923,214; June 1; Sp. p. 195; Gaz. vol. 143; p. 32.
- Teves, F. W., New York, assignor of one-half to H. H. Doehler, Brooklyn, N. Y. Starting mechanism for internal-combustion engines. No. 914,615; Mar. 9; Sp. p. 2018; Gaz. vol. 140; p. 343.
- Tevlis, N. C., Beaumont, Tex. Portable sawing-machine. No. 915,808; Mar. 23; Sp. p. 4443; Gaz. vol. 140; p. 700.
- Textile Appliances Limited. (See Carver, T. A. B., assignor.)
- Textile Machine Works. (See Janssen, H., assignor.)
- Textile Machine Works. (See Rahm, R. C., assignor.)
- Textile Machinery Company. (See Martin, F. H., assignor.)
- Thacher, W. E. (See Van Zandt and Thacher.)
- Thacker, G. L., *et al.* (See Price, G. A., assignor.)
- Thackston, J. H., Bethlehem Church, Va. Tobacco-stick holder. No. 909,255; Jan. 12; Sp. p. 1682; Gaz. vol. 138; p. 303.
- Thallner, O., assignor to Firm of Bismarckhütte, Bismarckhütte, Germany. Refining steel. No. 919,493; Apr. 27; Sp. p. 5476; Gaz. vol. 141; p. 940.
- Thallner, O., assignor to Firm of Bismarckhütte, Bismarckhütte, Germany. Refining of steel in electric furnaces. No. 925,612; June 22; Sp. p. 5267; Gaz. vol. 143; p. 925.
- Thallner, O., assignor to Firm of Bismarckhütte, Bismarckhütte, Germany. Deoxidizing slags. No. 936,332; Oct. 12; Sp. p. 1637; Gaz. vol. 147; p. 277.
- Thallner, O., assignor to Firm of Bismarckhütte, Bismarckhütte, Germany. Producing steel free from protoxids. No. 937,486; Oct. 19; Sp. p. 3962; Gaz. vol. 147; p. 673.
- Thamas, L., New Brunswick, N. J. Car-coupling. No. 935,563; Sept. 28; Sp. p. 5221; Gaz. vol. 146; p. 916.
- Thämer, C., Langfuhr, near Danzig, Germany. Device for measuring the axial thrust of driven shafts. No. 920,218; May 4; Sp. p. 255; Gaz. vol. 142; p. 41.
- Tharp, J., *et al.* (See Estis, W. B., assignor.)
- Tharp, J. D., Ardara, Pa. Post-seat for cars. No. 921,310; May 11; Sp. p. 2490; Gaz. vol. 142; p. 432.
- Tharp, M. A., *et al.* (See Estis, W. B., assignor.)
- Thatcher, F., El Paso, Tex. Oiling device for stock-dies. No. 932,513; Aug. 31; Sp. p. 6100; Gaz. vol. 145; p. 1058.
- Thatcher Furnace Company. (See Bernhard, J. B., assignor.)
- Thatcher, T. L., Milwaukee, Wis. Cuspidor. No. 921,483; May 11; Sp. p. 2856; Gaz. vol. 142; p. 491.
- Thatcher, W. R., Oskaloosa, Iowa. Milk pasteurizer and separator. No. 916,221; Mar. 23; Sp. p. 5223; Gaz. vol. 140; p. 922.
- Thatcher, W. R., Oskaloosa, Iowa. Milk pasteurizer and cooler. No. 941,964; Nov. 30; Sp. p. 7717; Gaz. vol. 148; p. 1299.
- Thayer, C. F. (See Peplinski and Thayer.)
- Thayer, C. F., Erie, Pa. Baby-carriage. No. 913,071; Feb. 23; Sp. p. 4228; Gaz. vol. 139; p. 765.
- Thayer Company. (See Peplinski and Thayer, assignors.)
- Thayer, F. B., Jackson, Mich. Stovepipe-cleaner. No. 919,395; Apr. 27; Sp. p. 5228; Gaz. vol. 141; p. 906.
- Thayer, G. H., Jr. (See Flora, E. E., assignor.)
- Thayer, G. R. (See Hamilton, C. H., assignor.)
- Thayer, G. R. (See Hamilton and Thayer.)
- Thayer, G. R. (See Southworth, A. M., assignor.)
- Thayer, H. A. (See Lewis, R. H., assignor.)
- Thayer, J. F., Providence, R. I., assignor, by mesne assignments, to Heaton-Peninsular Button Fastener Company, Boston, Mass. Button-setting instrument. No. 942,473; Dec. 7; Sp. p. 935; Gaz. vol. 149; p. 151.
- Thayer, M. N., Linton, Ind. Umbrella. No. 912,206; Feb. 9; Sp. p. 2396; Gaz. vol. 139; p. 413.
- Thayer, W. H., Chicago, Ill. Lamp. No. 937,115; Oct. 19; Sp. p. 3137; Gaz. vol. 147; p. 551.
- Thayer, W. M., Hartford, Conn. Storage-battery grid. No. 918,221; Apr. 13; Sp. p. 2561; Gaz. vol. 141; p. 456.
- Theberath & Co. (See Rittersbacher, F., assignor.)
- Thede, W. C., Chicago, Ill. Wheel-hub. No. 921,912; May 18; Sp. p. 3750; Gaz. vol. 142; p. 660.
- Thedford, J. A., *et al.* (See Barnes, F. S., assignor.)
- Theiling, C. G., Spencer, N. C. Swivel-hook. No. 942,681; Dec. 7; Sp. p. 1344; Gaz. vol. 149; p. 221.
- Theis, H., Lawrenceburg, Ind. Railway-switch structure. No. 909,710; Jan. 12; Sp. p. 2575; Gaz. vol. 138; p. 456.
- Theiss, H., Philadelphia, Pa. Scale attachment for sewing-machines. No. 919,396; Apr. 27; Sp. p. 5229; Gaz. vol. 141; p. 906.
- Thelen, L. G., and J. Flood, Chicago, Ill. Clothes-line hook. No. 944,057; Dec. 21; Sp. p. 4354; Gaz. vol. 149; p. 750.
- Themke, L. E. L., Strathcona, Alberta, Canada. Spring-wheel. No. 916,059; Mar. 23; Sp. p. 4917; Gaz. vol. 140; p. 871.
- Themke, L. E. L., and E. La Force, Strathcona, Alberta, Canada. Marine-engine governor. No. 916,627; Mar. 30; Sp. p. 6044; Gaz. vol. 140; p. 1083.
- Thenser, J., Caribou, Me. Window-sash. No. 914,203; Mar. 2; Sp. p. 1172; Gaz. vol. 140; p. 184.
- Theo. A. Kochs Company. (See Fischer, C. W., assignor.)



*Alphabetical list of patentees—Continued.*

- Theo. A. Kochs Company. (See Pfanschmidt, C., assignor.)
- Theo. Smith Manufacturing Company. (See Smith, T., assignor.)
- Theobald, F. F., Cleveland, Ohio. Combined original package and safe for matches. No. 938,913; Nov. 2; Sp. p. 1019; Gaz. vol. 148; p. 161.
- Therhault, O. J., Cohoes, N. Y. Hinge. No. 926,365; June 29; Sp. p. 6863; Gaz. vol. 143; p. 1207.
- Thery, C., Marseille, France. Sliding railway. No. 930,244; Aug. 3; Sp. p. 1276; Gaz. vol. 145; p. 210.
- Theuerkauf, R., Leipzig-Gohlis, Germany. Joining furs. No. 931,235; Aug. 17; Sp. p. 3412; Gaz. vol. 145; p. 592.
- Theurer, C., Milwaukee, Wis. Pail or receptacle. No. 918,222; Apr. 13; Sp. p. 2562; Gaz. vol. 141; p. 457.
- Thexton, G. W., Sarnia, Ontario, Canada. Governing device for two-stroke cycle internal-combustion motors. No. 909,256; Jan. 12; Sp. p. 1683; Gaz. vol. 138; p. 303.
- Thexton, H. A., assignor to Thexton Stamp-Vending Machine Company, Minneapolis, Minn. Vending-machine. No. 911,091; Feb. 2; Sp. p. 135; Gaz. vol. 139; p. 25.
- Thexton, H. A., assignor to Thexton Stamp-Vending Machine Company, Minneapolis, Minn. Vending-machine. No. 914,993; Mar. 9; Sp. p. 2754; Gaz. vol. 140; p. 464.
- Thexton Stamp-Vending Machine Company. (See Thexton, H. A., assignor.)
- Theyskens, A., Testelt, Belgium. Door-hanger. No. 940,088; Nov. 16; Sp. p. 3639; Gaz. vol. 148; p. 621.
- Thibert, N. R., assignor to M. J. Whittall and A. Thomas, Worcester, Mass. Boat-propelling device. No. 929,174; July 27; Sp. p. 5115; Gaz. vol. 144; p. 909.
- Thibert, N. R., assignor to M. J. Whittall and A. Thomas, Worcester, Mass. Protractor and level. No. 942,114; Dec. 7; Sp. p. 186; Gaz. vol. 149; p. 28.
- Thibert, N. R., assignor to A. Thomas and M. J. Whittall, Worcester, Mass. Foot-propelled vehicle. No. 941,471; Nov. 30; Sp. p. 6682; Gaz. vol. 148; p. 1132.
- Thibodeau, C., assignor to American Circular Loom Company, Chelsea, Mass. Circular loom. No. 910,742; Jan. 26; Sp. p. 4727; Gaz. vol. 138; p. 858.
- Thibodeau, C., assignor to American Circular Loom Company, Chelsea, Mass. Apparatus for automatically perforating tubes. No. 924,203; June 8; Sp. p. 2430; Gaz. vol. 143; p. 396.
- Thibodeau, C., assignor to American Circular Loom Company, Chelsea, Mass. Removing scale from metal pipes. No. 931,897; Aug. 24; Sp. p. 4803; Gaz. vol. 145; p. 829.
- Thibodeau, C., assignor to American Circular Loom Company, Chelsea, Mass. Apparatus for scoring tape. No. 936,383; Oct. 12; Sp. p. 1637; Gaz. vol. 147; p. 277.
- Thiel, A., St. Louis, Mo. Feed-bag. No. 908,518; Jan. 5; Sp. p. 174; Gaz. vol. 138; p. 31.
- Thiel, C. P., assignor to Davis & Furber Machine Company, North Andover, Mass. Warping or reeling mechanism. No. 934,580; Sept. 21; Sp. p. 3229; Gaz. vol. 146; p. 563.
- Thiel, E. R., Sheboygan, Wis. Shoe-scraper. No. 932,514; Aug. 31; Sp. p. 6101; Gaz. vol. 145; p. 1058.
- Thiel, L., Cincinnati, Ohio. Spindle-locking mechanism. No. 914,527; Mar. 9; Sp. p. 1840; Gaz. vol. 140; p. 313.
- Thiele, E., Brussels, Belgium. Producing cellulose threads. No. 909,257; Jan. 12; Sp. p. 1685; Gaz. vol. 138; p. 304.
- Thiele, K., Borbeck, near Essen-on-the-Ruhr, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Recoil-gun. No. 911,849; Feb. 9; Sp. p. 1608; Gaz. vol. 139; p. 298.
- Thielen, P., Kewanee, Ill. Horse-releaser. No. 934,476; Sept. 21; Sp. p. 3036; Gaz. vol. 146; p. 530.
- Thiemich, B., Dresden-Nausslitz, Germany. Manufacturing gas from coal. No. 912,509; Feb. 16; Sp. p. 3067; Gaz. vol. 139; p. 553.
- Thies, C. E., Traverse City, Mich. Revolving measuring-stand. No. 909,258; Jan. 12; Sp. p. 1685; Gaz. vol. 138; p. 304.
- Thies, H., Coesfeld, and W. Mathesius, Berlin, Germany. Apparatus for treating fibrous material with liquids. No. 923,310; June 1; Sp. p. 468; Gaz. vol. 143; p. 66.
- Thiessen, J. F., and E. Becker, Neumünster, Germany. Safety device for pitmen. No. 912,046; Feb. 9; Sp. p. 2111; Gaz. vol. 139; p. 364.
- Thigpen, K. von, assignor of one-third to Proximity Manufacturing Company and one-third to R. F. Thigpen, Greensboro, N. C. Measuring attachment for cloth-folding machines. No. 942,685; Dec. 7; Sp. p. 1349; Gaz. vol. 149; p. 222.
- Thigpen, R. F., *et al.* (See Thigpen, K., assignor.)
- Thilow, F. B., Philadelphia, Pa. Traveling fan. No. 909,039; Jan. 5; Sp. p. 1234; Gaz. vol. 138; p. 198.
- Thimm, O. (See Kraut, H., assignor.)
- Thinnes, J. M., Chicago, Ill. Garbage-receptacle. No. 914,528; Mar. 9; Sp. p. 1842; Gaz. vol. 140; p. 314.
- Thinnes, J. M., Chicago, Ill. Mold for forming cement garbage-boxes. No. 934,477; Sept. 21; Sp. p. 3038; Gaz. vol. 146; p. 530.
- Thissell, E. A. (See Sawyer, O. A., assignor.)
- Thissen, W. (See Smith and Thissen.)
- Thoene, K. H. (See Winkler and Thoene.)
- Thoens, B. (See Dunlavy, Ferguson, and Thoens.)
- Thoens, B., assignor to C. E. Levy, New York, N. Y. Cotton-press. No. 928,563; July 20; Sp. p. 3869; Gaz. vol. 144; p. 677.
- Thogode, O. W. (See Klitsch and Thogode.)
- Thois, A. T., and J. G. Gronberg, assignors to Caloric Fireless Cook Stove Company, Grand Rapids, Mich. Fireless baker. No. 919,494; Apr. 27; Sp. p. 5477; Gaz. vol. 141; p. 940.
- Thollander, J. E. A., Piedmont, Fla. Envelop-fastener. No. 929,344; July 27; Sp. p. 5521; Gaz. vol. 144; p. 967.
- Thom, J. C., Helmetta, N. J., assignor to American Snuff Company, New York, N. Y. Sealing apparatus. No. 939,453; Nov. 9; Sp. p. 2237; Gaz. vol. 148; p. 372.
- Thom, J. C., Helmetta, N. J., assignor to American Snuff Company, New York, N. Y. Machine for applying bottoms to cans. No. 939,454; Nov. 9; Sp. p. 2238; Gaz. vol. 148; p. 372.
- Thom, J. C., Helmetta, N. J., assignor to American Snuff Company, New York, N. Y. Machine for filling boxes. No. 939,455; Nov. 9; Sp. p. 2242; Gaz. vol. 148; p. 372.
- Thom, T. M., Woodlands, Cheshunt, assignor to British Stone and Marble Company Limited, London, England. Manufacture of lithographic stone artificially. No. 927,822; July 13; Sp. p. 2329; Gaz. vol. 144; p. 401.
- Thoma, A., Cambridge, assignor, by mesne assignments, to Clifton Manufacturing Company, Boston, Mass. Machine for treating coated canvas. No. 921,635; May 11; Sp. p. 3171; Gaz. vol. 142; p. 542.
- Thoma, A., Cambridge, Mass., assignor to Thoma Corporation, Portland, Me. Manufacture of innersoles. No. 926,711; June 29; Sp. p. 7508; Gaz. vol. 143; p. 1323.
- Thoma, A., Cambridge, Mass., assignor to Thoma Corporation, Portland, Me. Machine for applying and using resinous cement in the manufacture of innersoles. No. 926,712; June 29; Sp. p. 7515; Gaz. vol. 143; p. 1323.
- Thoma, A., Cambridge, Mass., assignor to Thoma Corporation, Portland, Me. Package of sticky cement and making the same. No. 931,350; Aug. 17; Sp. p. 3663; Gaz. vol. 145; p. 632.
- Thoma, A., Cambridge, Mass., assignor to Thoma Corporation, Portland, Me. Method and apparatus for handling coated reinforcing-fabric. No. 937,391; Oct. 19; Sp. p. 3738; Gaz. vol. 147; p. 640.
- Thoma Corporation. (See Thoma, A., assignor.)
- Thoma, D., assignor to Briegleb, Hansen & Co., Gotha, Germany. Indirectly-acting governor for groups of power-engines. No. 943,849; Dec. 21; Sp. p. 3907; Gaz. vol. 149; p. 680.
- Thoma, L., *et al.* (See Sebree, W. T., assignor.)
- Thomann, F., Summerfield, Kans. Bolt for grain-car and other doors. No. 935,284; Sept. 28; Sp. p. 4643; Gaz. vol. 146; p. 825.
- Thomas, A., *et al.* (See Scott and Dilgard, assignors.)
- Thomas, A., *et al.* (See Thibert, N. R., assignor.)
- Thomas, A., and E. Thompson, Minnesota Lake, Minn. Boiler-cleaning device. No. 942,982; Dec. 14; Sp. p. 2042; Gaz. vol. 149; p. 353.
- Thomas, A., and E. Thompson, Minnesota Lake; said Thomas assignor to N. Thomas, Wheaton, Minn. Boiler-cleaning device. No. 917,380; Apr. 6; Sp. p. 856; Gaz. vol. 141; p. 147.
- Thomas, A. H., Little Rock, Ark. Cotton-press. No. 932,354; Aug. 24; Sp. p. 5755; Gaz. vol. 145; p. 982.
- Thomas, A. J., Roubaix, S. D. Card-exhibiting device. No. 932,830; Aug. 31; Sp. p. 6780; Gaz. vol. 145; p. 1163.
- Thomas, A. J., assignor of one-half to R. M. Mesick, Los Angeles, Cal. Advertising device. No. 934,856; Sept. 21; Sp. p. 3783; Gaz. vol. 146; p. 656.
- Thomas, A. N., Canton, Ohio. Hinge. No. 915,905; Mar. 23; Sp. p. 4627; Gaz. vol. 140; p. 821.
- Thomas, A. R. (See Bowden and Thomas.)
- Thomas, A. R. (See Westlake and Thomas.)
- Thomas, A. W., Rome, assignor to Burt Olney Canning Company, Oneida, N. Y. Corn-cutter knife. No. 917,976; Apr. 13; Sp. p. 2058; Gaz. vol. 141; p. 372.
- Thomas & Betts Company. (See McMurtrie, A., assignor.)
- Thomas & Betts Company. (See Thomas, R. M., assignor.)
- Thomas, C. L., assignor of one-half to F. Caulkings, Canisteo, N. Y. Uphrow cushion-spring for vehicles. No. 926,685; June 29; Sp. p. 7451; Gaz. vol. 143; p. 1313.
- Thomas, C. O., Pittsburg, assignor of two-thirds to J. T. Reinsel, Clarion, Pa. Rail-joint. No. 914,616; Mar. 9; Sp. p. 2023; Gaz. vol. 140; p. 344.

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- Thomas, C. S., assignor of one-third to M. Malzahn and one-third to F. G. Kemper, St. Paul, Minn. Non-refillable bottle. No. 914,529; Mar. 9; Sp. p. 1843; Gaz. vol. 140; p. 314.
- Thomas, D. B. (See Meek, J. W., assignor.)
- Thomas, D. S., *et al.* (See Hanger, G. M., assignor.)
- Thomas, D. W., New Holland, Ill. Grain-car door. No. 914,994; Mar. 9; Sp. p. 2757; Gaz. vol. 140; p. 465.
- Thomas Devlin & Co. (See Hall and Hercker, assignors.)
- Thomas Devlin Manufacturing Co. (See Fick, J., assignor.)
- Thomas, E. A., New York, N. Y. Placket-closure. No. 914,897; Mar. 9; Sp. p. 2605; Gaz. vol. 140; p. 435.
- Thomas, E. B., Santa Rosa, Cal. Concentrator. No. 944,924; Dec. 28; Sp. p. 6233; Gaz. vol. 149; p. 1071.
- Thomas, E. G., *et al.* (See Vrooman, E. E., assignor.)
- Thomas, E. T., Brooklyn, assignor to R. J. Campbell, New York, N. Y. Railway-tie sawmill. No. 933,932; Sept. 14; Sp. p. 1973; Gaz. vol. 146; p. 325.
- Thomas, E. W., Stockton, Cal. Oil-burner. No. 918,711; Apr. 20; Sp. p. 3650; Gaz. vol. 141; p. 647.
- Thomas, E. W., Philadelphia, Pa. Examination, operating, or treatment table. No. 920,500; May 4; Sp. p. 817; Gaz. vol. 142; p. 132.
- Thomas, F., New York, N. Y. Manifold sales-check. No. 937,658; Oct. 19; Sp. p. 4275; Gaz. vol. 147; p. 730.
- Thomas, F., assignor of one-half to Walker Brothers, Wigan, Limited, Wigan, England. Boring-tool. No. 930,436; Aug. 10; Sp. p. 1640; Gaz. vol. 145; p. 297.
- Thomas, F. A. (See Laeuffer, Thomas, and Norman.)
- Thomas, F. C., Mill Valley, Cal. Resilient wheel. No. 920,690; May 4; Sp. p. 1218; Gaz. vol. 142; p. 196.
- Thomas, F. E., Wedgefield, S. C. Cotton-press. No. 935,432; Sept. 28; Sp. p. 4935; Gaz. vol. 146; p. 871.
- Thomas, F. J., Chicago, Ill. Horse-checking device. No. 930,705; Aug. 10; Sp. p. 2224; Gaz. vol. 145; p. 387.
- Thomas, G. (See Palmer, C. C., assignor.)
- Thomas, G. B., assignor to Bryant Electric Company, Bridgeport, Conn. Knife-switch. No. 910,328; Jan. 19; Sp. p. 3880; Gaz. vol. 138; p. 696.
- Thomas, G. B., assignor to Bryant Electric Company, Bridgeport, Conn. Cam for lamp-socket keys. No. 913,584; Feb. 23; Sp. p. 5302; Gaz. vol. 139; p. 938.
- Thomas, G. B., assignor to Bryant Electric Company, Bridgeport, Conn. Pull-socket. No. 934,236; Sept. 14; Sp. p. 2578; Gaz. vol. 146; p. 426.
- Thomas, G. B., assignor to Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Pendent electric switch. No. 926,622; June 29; Sp. p. 7332; Gaz. vol. 143; p. 1293.
- Thomas, G. P., Pittsburgh, Pa. Milling-machine. No. 908,816; Jan. 5; Sp. p. 797; Gaz. vol. 138; p. 125.
- Thomas, G. P., Pittsburgh, Pa. Punching-machine. No. 908,817; Jan. 5; Sp. p. 800; Gaz. vol. 138; p. 126.
- Thomas, G. P., Pittsburgh, Pa. Metal-work machine. No. 908,818; Jan. 5; Sp. p. 802; Gaz. vol. 138; p. 126.
- Thomas, G. P., Pittsburgh, Pa. Spacing-machine. No. 908,819; Jan. 5; Sp. p. 805; Gaz. vol. 138; p. 126.
- Thomas Gin Company. (See Phelps, F., assignor.)
- Thomas, H. (See Campbell, W. G., assignor.)
- Thomas, H., London, England. Slice-support for meat-slicing machines. No. 932,189; Aug. 24; Sp. p. 5456; Gaz. vol. 145; p. 928.
- Thomas, H. D., Cincinnati, Ohio. Dish-washing machine. No. 923,215; June 1; Sp. p. 196; Gaz. vol. 143; p. 33.
- Thomas, H. F. (See Burr and Thomas.)
- Thomas, H. G., Butler, Mo. Trough. No. 916,222; Mar. 23; Sp. p. 5226; Gaz. vol. 140; p. 923.
- Thomas, H. G., Lake Forest, Ill. Valve for hot-water heating systems. No. 917,813; Apr. 13; Sp. p. 1713; Gaz. vol. 141; p. 315.
- Thomas, H. M. (See Lyons, J., assignor.)
- Thomas, I. D. (See Douglas and Thomas.)
- Thomas, J., Joliet, Ill. Rail-splice. No. 918,793; Apr. 20; Sp. p. 3794; Gaz. vol. 141; p. 673.
- Thomas, J., Joliet, Ill. Rail-splice. No. 940,218; Nov. 16; Sp. p. 3930; Gaz. vol. 148; p. 668.
- Thomas, J., New York, N. Y. Lever-check for electric controllers. No. 919,089; Apr. 20; Sp. p. 4402; Gaz. vol. 141; p. 769.
- Thomas, J., Tacoma, Wash. Glazed-cement-sewer-pipe machine. No. 929,898; Aug. 3; Sp. p. 596; Gaz. vol. 145; p. 93.
- Thomas, J., Tacoma, Wash. Machine for making concrete pipes. No. 931,972; Aug. 24; Sp. p. 4992; Gaz. vol. 145; p. 855.
- Thomas, J. F., Marianna, Ark. Cotton-topper. No. 916,628; Mar. 30; Sp. p. 6045; Gaz. vol. 140; p. 1084.
- Thomas, J. H., Hoboken, N. J. Article for smokers' use. No. 918,928; Apr. 20; Sp. p. 4101; Gaz. vol. 141; p. 719.
- Thomas, J. H., Hoboken, N. J. Clothes-line attachment. No. 936,058; Oct. 5; Sp. p. 972; Gaz. vol. 147; p. 146.
- Thomas, J. M. (See Lewis, Thomas, and Jones.)
- Thomas, J. R., and P. A. Solem, assignors to J. A. Fay & Egan Company, Cincinnati, Ohio. Jointing-machine. No. 912,918; Feb. 16; Sp. p. 3911; Gaz. vol. 139; p. 689.
- Thomas, L. A., Aurora, Iowa. Mixer. No. 918,394; Apr. 13; Sp. p. 2900; Gaz. vol. 141; p. 512.
- Thomas, L. B., Ringgold, La. Fertilizer-dropper and planter. No. 927,084; July 6; Sp. p. 816; Gaz. vol. 144; p. 130.
- Thomas, L. L., State Line, Wis. Buckle. No. 935,706; Oct. 5; Sp. p. 181; Gaz. vol. 147; p. 28.
- Thomas, M. H., Waterloo, Iowa. Compartment-case. No. 915,507; Mar. 16; Sp. p. 3804; Gaz. vol. 140; p. 661.
- Thomas Maddock's Sons Co. (See Kelly, J. F., assignor.)
- Thomas Maddock's Sons Co. (See Maddock, H. S., assignor.)
- Thomas Manufacturing Company. (See Pelton, C. H., assignor.)
- Thomas, N. (See Thomas and Thompson.)
- Thomas, N., assignor of one-half to E. Caldwell and one-half to himself, Burlington, Wis. Hand-propelled wagon. No. 917,910; Apr. 13; Sp. p. 1922; Gaz. vol. 141; p. 348.
- Thomas, N. L., Chattanooga, Tenn. Key-hook. No. 928,006; July 13; Sp. p. 2709; Gaz. vol. 144; p. 462.
- Thomas Nelson & Sons. (See Baldauf, C. L., assignor.)
- Thomas, O., Grünberg, Silesia, Germany. Bridge. No. 926,034; June 22; Sp. p. 6161; Gaz. vol. 143; p. 1064.
- Thomas, O. L., *et al.* (See Jensen, P., assignor.)
- Thomas, P. H., East Orange, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. System of electrical control. No. 916,223; Mar. 23; Sp. p. 5227; Gaz. vol. 140; p. 923.
- Thomas, P. H., Montclair, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Gas or vapor circuit-breaker. No. 919,264; Apr. 20; Sp. p. 4927; Gaz. vol. 141; p. 826.
- Thomas, P. H., Montclair, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Device for steadying currents. No. 928,287; July 20; Sp. p. 3325; Gaz. vol. 144; p. 588.
- Thomas, P. H., Montclair, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Starting device for vapor-converters. No. 937,971; Oct. 26; Sp. p. 4944; Gaz. vol. 147; p. 853.
- Thomas, P. H., Pittsburgh, Pa., assignor to Cooper Hewitt Electric Company. System of distributing electrical energy. No. 930,325; Aug. 3; Sp. p. 1413; Gaz. vol. 145; p. 235.
- Thomas, P. H., Pittsburgh, Pa., assignor to Cooper Hewitt Electric Company, New York, N. Y. Motor-control system. No. 945,006; Dec. 28; Sp. p. 6395; Gaz. vol. 149; p. 1097.
- Thomas, P. H., Pittsburgh, Pa., assignor to Cooper Hewitt Electric Company. Motor-control system. No. 945,008; Dec. 28; Sp. p. 6399; Gaz. vol. 149; p. 1097.
- Thomas, R. C., New York, N. Y. Garment-hanger. No. 912,047; Feb. 9; Sp. p. 2112; Gaz. vol. 139; p. 364.
- Thomas, R. H., Chicago, Ill. Refrigerating apparatus. No. 938,181; Oct. 26; Sp. p. 5415; Gaz. vol. 147; p. 924.
- Thomas, R. M., Elizabeth, N. J., assignor to Thomas & Betts Company, New York, N. Y. Conduit-coupling. No. 916,937; Mar. 30; Sp. p. 6628; Gaz. vol. 140; p. 1181.
- Thomas, R. M., Elizabeth, N. J., assignor to Thomas & Betts Company, New York, N. Y. Electrical-box coupling. No. 916,938; Mar. 30; Sp. p. 6631; Gaz. vol. 140; p. 1181.
- Thomas, R. N., Shenandoah, Iowa. Wristlet. No. 911,780; Feb. 9; Sp. p. 1482; Gaz. vol. 139; p. 277.
- Thomas, R. N., Shenandoah, Iowa. Corn-husker. No. 919,794; Apr. 27; Sp. p. 6054; Gaz. vol. 141; p. 1041.
- Thomas, R. N., Shenandoah, Iowa. Corn-husking hook. No. 925,529; June 22; Sp. p. 5094; Gaz. vol. 143; p. 897.
- Thomas, R. T., Utica, N. Y. Stocking-darner. No. 944,704; Dec. 28; Sp. p. 5758; Gaz. vol. 149; p. 997.
- Thomas, S. B., Manchester, N. H. Fastener for can-closures. No. 944,297; Dec. 28; Sp. p. 4853; Gaz. vol. 149; p. 856.
- Thomas, S. L. (See Stevens and Thomas.)
- Thomas, T. L., and W. D. Lewis, Plymouth, Pa. Self-locking window-lock. No. 919,653; Apr. 27; Sp. p. 5781; Gaz. vol. 141; p. 994.
- Thomas, V. C., Carrolltown, Pa. Dipper-tooth. No. 915,809; Mar. 23; Sp. p. 4445; Gaz. vol. 140; p. 700.
- Thomas, W., Vancouver, British Columbia, Canada. Gas-pressure gage. No. 913,321; Feb. 23; Sp. p. 4750; Gaz. vol. 139; p. 850.
- Thomas, W., Vancouver, British Columbia, Canada. Manufacturing mixed coal-gas and carbureted water-gas. No. 940,289; Nov. 16; Sp. p. 4079; Gaz. vol. 148; p. 692.
- Thomas, W. A., and J. P. Pelegrin, Memphis, Tenn. Barrel. No. 926,623; June 29; Sp. p. 7333; Gaz. vol. 143; p. 1293.
- Thomas, W. D., Pittsburgh, Pa. Heading-machine. No. 928,409; July 20; Sp. p. 3559; Gaz. vol. 144; p. 629.
- Thomas, W. H. (See Kaley, E. B., assignor.)



*Alphabetical list of patentees—Continued.*

- Thomas, W. H. (See Price and Thomas.)
- Thomas, W. H., Whittier, Cal. Combined cylinder and mortise lock. No. 915,317; Mar. 16; Sp. p. 3428; Gaz. vol. 140; p. 598.
- Thomas, W. H., Whittier, Cal. Lock and latch mechanism. No. 929,637; July 27; Sp. p. 6068; Gaz. vol. 144; p. 1061.
- Thomas, W. H., Whittier, Cal. Knob-lock. No. 934,702; Sept. 21; Sp. p. 3480; Gaz. vol. 146; p. 606.
- Thomas, W. H., Taylor, N. D. Motor-vehicle drive-gear. No. 916,224; Mar. 23; Sp. p. 5228; Gaz. vol. 140; p. 924.
- Thomas, W. J., Inglewood, Cal. Adjustable holdback. No. 920,219; May 4; Sp. p. 257; Gaz. vol. 142; p. 61.
- Thomas, W. J., Salt Lake City, Utah. Furnace-grate. No. 937,487; Oct. 19; Sp. p. 3903; Gaz. vol. 147; p. 673.
- Thomas, W. M., Santa Cruz, Cal. Concrete-bridge construction. No. 915,316; Mar. 16; Sp. p. 3424; Gaz. vol. 140; p. 598.
- Thomas, W. M., North English, Iowa. Obstetrical instrument. No. 919,397; Apr. 27; Sp. p. 5230; Gaz. vol. 141; p. 906.
- Thomas, W. R., Catasauqua, Pa. Valve. No. 927,438; July 6; Sp. p. 1485; Gaz. vol. 144; p. 246.
- Thomaschewski, P., Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 928,891; July 20; Sp. p. 4531; Gaz. vol. 144; p. 789.
- Thomaschewski, P., Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 935,827; Oct. 5; Sp. p. 493; Gaz. vol. 147; p. 70.
- Thomaschewski, P., Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Anthracene compound. No. 938,616; Nov. 2; Sp. p. 394; Gaz. vol. 148; p. 59.
- Thomaschewski, P., Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Anthracene compound. No. 938,617; Nov. 2; Sp. p. 394; Gaz. vol. 148; p. 59.
- Thomason, F. D. (See Bradley, J. C., assignor.)
- Thomason, F. D., Chicago, Ill. Brake-equalizing mechanism. No. 944,058; Dec. 21; Sp. p. 4355; Gaz. vol. 149; p. 751.
- Thomason, J. T., *et al.* (See Munk, R. W., assignor.)
- Thomason, S. C. (See Fagen and Thomason.)
- Thomasson, J. E. (See Grasberger and Thomasson.)
- Thomlinson, W., Seaton Carew, West Hartlepool, England. Consolidating flue-dust for use in the manufacture of steel. No. 923,605; June 1; Sp. p. 1113; Gaz. vol. 143; p. 169.
- Thompson, A., St. Thomas, N. D. Collapsible parcel-envelop. No. 916,503; Mar. 30; Sp. p. 5797; Gaz. vol. 140; p. 1043.
- Thompson, A., La Grange, Ill. Draining device. No. 936,188; Oct. 5; Sp. p. 1233; Gaz. vol. 147; p. 183.
- Thompson, A. B., *et al.* (See Thompson, J. B., assignor.)
- Thompson, A. B., Inkster, N. D. Painter's ladder. No. 911,919; Feb. 9; Sp. p. 1742; Gaz. vol. 139; p. 322.
- Thompson, A. C., Falfurrias, Tex. Means for closing the ends of conduits. No. 917,911; Apr. 13; Sp. p. 1926; Gaz. vol. 141; p. 348.
- Thompson, A. F., Huntington, W. Va. Gas-burner. No. 909,711; Jan. 12; Sp. p. 2579; Gaz. vol. 138; p. 457.
- Thompson, A. G., Sequin, Kans. Steam-engine valve. No. 917,505; Apr. 6; Sp. p. 1073; Gaz. vol. 141; p. 188.
- Thompson, A. M., Chicago, Ill. Molding device. No. 928,714; July 20; Sp. p. 4176; Gaz. vol. 144; p. 728.
- Thompson, A. M. and J. W., Anadarko, Okla. Cotton chopper and cultivator. No. 914,617; Mar. 9; Sp. p. 2024; Gaz. vol. 140; p. 344.
- Thompson, A. R. (See Peebles and Thompson.)
- Thompson, A. W., Manchester, N. H. Apparatus for dyeing, bleaching, &c. No. 926,782; July 6; Sp. p. 146; Gaz. vol. 144; p. 24.
- Thompson, A. W., Winchester, Ind. Releasing device for stock. No. 930,505; Aug. 10; Sp. p. 1778; Gaz. vol. 145; p. 320.
- Thompson, B. F., Malone, N. Y. Sash-holder. No. 929,729; Aug. 3; Sp. p. 191; Gaz. vol. 145; p. 34.
- Thompson, C. A. (See Ruggles and Thompson.)
- Thompson, C. E., Holland, Mich. Flush-tank for water-closets. No. 909,965; Jan. 19; Sp. p. 3101; Gaz. vol. 138; p. 573.
- Thompson, C. E., Troy, N. Y. Lathering utensil. No. 926,303; June 29; Sp. p. 6737; Gaz. vol. 143; p. 1188.
- Thompson, C. E., assignor, by mesne assignments, to Electric Welding Products Company, Cleveland, Ohio. Electric welding. No. 910,434; Jan. 19; Sp. p. 4094; Gaz. vol. 138; p. 734.
- Thompson, C. E., assignor, by mesne assignments, to Electric Welding Products Company, Cleveland, Ohio. Apparatus for welding by electricity. No. 915,249; Mar. 16; Sp. p. 3303; Gaz. vol. 140; p. 577.
- Thompson, C. H., Toronto, Ontario, Canada. Ventilating water-closet. No. 940,833; Nov. 23; Sp. p. 5302; Gaz. vol. 148; p. 899.
- Thompson, C. H., assignor to Wilcox & White Company, Meriden, Conn. Pneumatic-action construction. No. 912,207; Feb. 9; Sp. p. 2398; Gaz. vol. 139; p. 413.
- Thompson, C. N., Chicago, Ill. Railway-tie. No. 934,478; Sept. 21; Sp. p. 3041; Gaz. vol. 146; p. 531.
- Thompson, C. W., Kalamazoo, Mich. Combination garment-supporter. No. 909,964; Jan. 19; Sp. p. 3099; Gaz. vol. 138; p. 573.
- Thompson, C. W., assignor of one-half to F. A. Greason, Barre, Vt. Surfacing-tool. No. 944,523; Dec. 28; Sp. p. 5375; Gaz. vol. 149; p. 936.
- Thompson, D. H., Fort Crook, Neb. Rotary gasoline-engine. No. 912,332; Feb. 16; Sp. p. 2703; Gaz. vol. 139; p. 494.
- Thompson, D. N., Owego, N. Y. Double-acting band-brake. No. 910,435; Jan. 19; Sp. p. 4095; Gaz. vol. 138; p. 734.
- Thompson, E. (See Thomas and Thompson.)
- Thompson, E. A., Hiram, Ark. Load-retaining device. No. 928,288; July 20; Sp. p. 3327; Gaz. vol. 144; p. 588.
- Thompson, E. C., Long Branch, N. J. Portable iron-heater. No. 942,422; Dec. 7; Sp. p. 809; Gaz. vol. 149; p. 132.
- Thompson, E. L., Gethsemane, Ark. Sash-fastener. No. 912,631; Feb. 16; Sp. p. 3328; Gaz. vol. 139; p. 596.
- Thompson, E. L., Dover, N. J. Blast apparatus. No. 913,322; Feb. 23; Sp. p. 4752; Gaz. vol. 139; p. 850.
- Thompson, E. L., Dover, N. J. Sprinkler alarm device. No. 929,051; July 27; Sp. p. 4854; Gaz. vol. 144; p. 868.
- Thompson, F., Boston, Mass. Draw-string bag. No. 916,802; Mar. 30; Sp. p. 6350; Gaz. vol. 140; p. 1135.
- Thompson, F., Chicago, Ill. Table for punch-presses. No. 936,832; Oct. 12; Sp. p. 2565; Gaz. vol. 147; p. 429.
- Thompson, F. B., assignor to National Waterproof Film Company, Chicago, Ill. Film-drying machine. No. 939,350; Nov. 9; Sp. p. 1991; Gaz. vol. 148; p. 338.
- Thompson, F. C., Christchurch, New Zealand. Mechanism for operating Venetian blinds. No. 926,911; July 6; Sp. p. 433; Gaz. vol. 144; p. 69.
- Thompson, F. E., Newton, Iowa. Gearing for washing-machines. No. 930,706; Aug. 10; Sp. p. 2226; Gaz. vol. 145; p. 387.
- Thompson, F. M., assignor of one-fourth to J. F. McDole, East Liverpool, Ohio. Boat. No. 934,373; Sept. 14; Sp. p. 2828; Gaz. vol. 146; p. 472.
- Thompson, G., Milton, Conn., and H. W. Merchant, New York, N. Y. Track construction and electric signaling and controlling equipment thereof. No. 923,800; June 1; Sp. p. 1574; Gaz. vol. 143; p. 235.
- Thompson, G. F., East Orange, N. J. Water-closet-seat protector. No. 914,898; Mar. 9; Sp. p. 2607; Gaz. vol. 140; p. 436.
- Thompson, G. F., Minneapolis, Minn. Swingletree. No. 944,114; Dec. 21; Sp. p. 4478; Gaz. vol. 149; p. 769.
- Thompson, G. R., assignor to M. Thompson, Republic, Mich. Piston-packing. No. 927,190; July 6; Sp. p. 1016; Gaz. vol. 144; p. 165.
- Thompson, G. S., Avon by the Sea, N. J. Railway-tie. No. 933,862; Sept. 14; Sp. p. 1840; Gaz. vol. 146; p. 304.
- Thompson, G. W., Kingston, Okla. Flying-machine. No. 922,972; May 25; Sp. p. 5928; Gaz. vol. 142; p. 1033.
- Thompson, G. W., Collinsville, Ill. Coke-oven. No. 924,293; June 8; Sp. p. 2618; Gaz. vol. 143; p. 426.
- Thompson, G. Y., Rossmoyne, Ohio. Fire-escape. No. 917,681; Apr. 6; Sp. p. 1390; Gaz. vol. 141; p. 245.
- Thompson, H. (See Driscoll and Thompson.)
- Thompson, H. A., and C. E. Sargent, St. Louis, Mo. Amusement device. No. 910,608; Jan. 26; Sp. p. 4480; Gaz. vol. 138; p. 816.
- Thompson, H. E. (See Newell, I. M., assignor.)
- Thompson, H. E., Knoxville, Tenn., assignor to William J. Oliver Manufacturing Company. Dump-car. No. 942,598; Dec. 7; Sp. p. 1181; Gaz. vol. 149; p. 192.
- Thompson, H. F., Lexington, Ohio. Valve. No. 933,863; Sept. 14; Sp. p. 1841; Gaz. vol. 146; p. 304.
- Thompson, H. H. (See Marsh and Thompson.)
- Thompson, H. H., *et al.* (See Thompson, J. B., assignor.)
- Thompson, H. L., Waterbury, Conn. Rod-rolling mill. No. 923,216; June 1; Sp. p. 198; Gaz. vol. 143; p. 33.
- Thompson, H. L., Waterbury, Conn. Wire-drawing machine. No. 935,335; Sept. 28; Sp. p. 4756; Gaz. vol. 146; p. 842.
- Thompson, H. L., Waterbury, Conn. Wire-drawing machine. No. 935,336; Sept. 28; Sp. p. 4758; Gaz. vol. 146; p. 842.
- Thompson, H. L., Waterbury, Conn. Wire-drawing machine. No. 935,564; Sept. 28; Sp. p. 5223; Gaz. vol. 146; p. 917.
- Thompson, H. L., Elgin, Ill. Steam-pump. No. 938,724; Nov. 2; Sp. p. 596; Gaz. vol. 148; p. 94.
- Thompson, I. W. (See Gardiner, C., assignor.)
- Thompson, J. A., and E. M. Mackie, assignors to Chicago Pneumatic Tool Company, Chicago, Ill. Rock-drill lubrication. No. 911,180; Feb. 2; Sp. p. 304; Gaz. vol. 139; p. 54.
- Thompson, J. A., E. M. Mackie, and P. F. Doyle, Chicago, Ill., assignors to Chicago Pneumatic Tool Company. Self-tightening rock-drill chuck. No. 920,788; May 4; Sp. p. 1409; Gaz. vol. 142; p. 228.
- Thompson, J. B., assignor of two-thirds to A. B. and H. H. Thompson, Mount Calm, Tex. Cotton-chopper. No. 940,906; Nov. 23; Sp. p. 5442; Gaz. vol. 148; p. 922.
- Thompson, J. D., Dobbs Ferry, N. Y. Instruction-book. No. 909,477; Jan. 12; Sp. p. 2111; Gaz. vol. 138; p. 375.
- Thompson, J. D., Calumet, Mich. Tool-holder. No. 922,210; May 18; Sp. p. 4357; Gaz. vol. 142; p. 758.
- Thompson, J. D., Eureka, Cal. Boiler-tube cleaner. No. 938,289; Oct. 26; Sp. p. 5625; Gaz. vol. 147; p. 961.
- Thompson, J. E., Westwood, N. J. Combined feed-box and manger. No. 913,175; Feb. 23; Sp. p. 4437; Gaz. vol. 139; p. 800.
- Thompson, J. F., *et al.* (See Bailey, D. M., assignor.)

*Alphabetical list of patentees—Continued.*

- Thompson, J. H. (See Ackerman, A. W., assignor.)  
 Thompson, J. H. (See Lampson, R. D., assignor.)  
 Thompson, J. H., Chicago, Ill. Electroliner. No. 909,040; Jan. 5; Sp. p. 1236; Gaz. vol. 138; p. 199.  
 Thompson, J. H., assignor to Johnson Electric Machine Company, Charleston, W. Va. Electric coal-puncher or mining-machine. No. 922,736; May 25; Sp. p. 5437; Gaz. vol. 142; p. 957.  
 Thompson, J. M., assignor to Luther Bros. Co., Milwaukee, Wis. Clamping mechanism. No. 912,757; Feb. 16; Sp. p. 3635; Gaz. vol. 139; p. 640.  
 Thompson, J. M., assignor to Luther Bros. Co., Milwaukee, Wis. Driving-gear for grinding-machines. No. 940,089; Nov. 16; Sp. p. 3641; Gaz. vol. 148; p. 621.  
 Thompson, J. O., Lincoln, Ark. Steel-rail coupling. No. 911,092; Feb. 2; Sp. p. 138; Gaz. vol. 139; p. 26.  
 Thompson, J. S., assignor to Thompson Type Machine Company, Chicago, Ill. Type-casting machine. No. 908,519; Jan. 5; Sp. p. 175; Gaz. vol. 138; p. 31.  
 Thompson, J. S., assignor to Thompson Type Machine Company, Chicago, Ill. Type-casting machine. No. 917,975; Apr. 13; Sp. p. 2051; Gaz. vol. 141; p. 372.  
 Thompson, J. V., assignor of one-fourth to I. Moore, one-fourth to H. H. Robey, and one-fourth to F. P. Gough, Spencer, W. Va. Mail-bag catcher and deliverer. No. 921,567; May 11; Sp. p. 3014; Gaz. vol. 142; p. 517.  
 Thompson, J. W. (See Moore, F. W., assignor.)  
 Thompson, J. W. (See Thompson, A. M. and J. W.)  
 Thompson, J. W., Wham, La. Vehicle-wheel. No. 926,783; July 6; Sp. p. 150; Gaz. vol. 144; p. 25.  
 Thompson, J. W., assignor of one-fourth to G. P. Stubbs, Monroe, La. Automatic switch. No. 943,758; Dec. 21; Sp. p. 3722; Gaz. vol. 149; p. 648.  
 Thompson, L. A., Buffalo, N. D. Spark-arrester. No. 934,479; Sept. 21; Sp. p. 3046; Gaz. vol. 146; p. 531.  
 Thompson, L. E., Fodvang, Minn. Shell-crimper. No. 943,716; Dec. 21; Sp. p. 3646; Gaz. vol. 149; p. 633.  
 Thompson, L. W., Osborne, Kans. Alfalfa-reducing machine. No. 919,090; Apr. 20; Sp. p. 4406; Gaz. vol. 141; p. 770.  
 Thompson, M. (See Thompson, G. R., assignor.)  
 Thompson, M. D., South Portland, Me. Portable gasoline-engine bed for dories. No. 921,913; May 18; Sp. p. 3759; Gaz. vol. 142; p. 660.  
 Thompson, M. D., South Portland, Me. Propeller. No. 938,290; Oct. 26; Sp. p. 5628; Gaz. vol. 147; p. 962.  
 Thompson, M. D., South Portland, Me. Propeller. No. 938,291; Oct. 26; Sp. p. 5629; Gaz. vol. 147; p. 962.  
 Thompson, O. L. and E. E. Morrison, Tididoute, Pa. Bread-box. No. 936,957; Oct. 12; Sp. p. 2821; Gaz. vol. 147; p. 470.  
 Thompson, P., El Campo, Tex. Show-case. No. 909,710; Jan. 5; Sp. p. 596; Gaz. vol. 138; p. 93.  
 Thompson, P., Toronto, Ontario, Canada. Air-brush. No. 923,910; June 8; Sp. p. 1807; Gaz. vol. 143; p. 300.  
 Thompson, R. (See Stow, J. D., assignor.)  
 Thompson, R. H., Denver, Colo. Brake-beam. No. 914,530; Mar. 9; Sp. p. 1844; Gaz. vol. 140; p. 314.  
 Thompson, S. B., Rossmyrne, Ohio. Music-leaf turner. No. 919,978; Apr. 27; Sp. p. 6445; Gaz. vol. 141; p. 1101.  
 Thompson, S. B., Fanwood, N. J. Car-brake mechanism. No. 935,176; Sept. 28; Sp. p. 4431; Gaz. vol. 146; p. 789.  
 Thompson, T., Cambridge, Nebr. Roost. No. 911,920; Feb. 9; Sp. p. 1744; Gaz. vol. 139; p. 323.  
 Thompson, T., Dubuque, Iowa. Egg-washer. No. 929,804; Aug. 3; Sp. p. 375; Gaz. vol. 145; p. 62.  
 Thompson, T. A., Tacoma, Wash. Display-rack. No. 915,906; Mar. 23; Sp. p. 4629; Gaz. vol. 140; p. 821.  
 Thompson, T. A., Brazil, Ind. Cover for cheese. No. 926,804; June 29; Sp. p. 6738; Gaz. vol. 143; p. 1188.  
 Thompson, T. O., Zacapa, Guatemala. Faucet. No. 941,210; Nov. 23; Sp. p. 6110; Gaz. vol. 148; p. 1025.  
 Thompson, Type Machine Company. (See Thompson, J. S., assignor.)  
 Thompson, W., Kalamazoo, Mich. Gas-stove. No. 917,186; Apr. 6; Sp. p. 455; Gaz. vol. 141; p. 80.  
 Thompson, W., Kalamazoo, Mich. Valve-guard. No. 923,731; June 1; Sp. p. 1355; Gaz. vol. 143; p. 211.  
 Thompson, W., Kalamazoo, Mich. Manifold for gas-stoves. No. 926,835; July 6; Sp. p. 270; Gaz. vol. 144; p. 43.  
 Thompson, W., Kalamazoo, Mich. Valve-guard. No. 926,836; July 6; Sp. p. 271; Gaz. vol. 144; p. 44.  
 Thompson, W., Kalamazoo, Mich. Oven for gas or vapor burning stoves. No. 938,914; Nov. 2; Sp. p. 1022; Gaz. vol. 148; p. 162.  
 Thompson, W. A. (See Davis and Thompson.)  
 Thompson, W. A. S. (See Hardison, Gunn, and Thompson.)  
 Thompson, W. C., Oyster Bay, N. Y. Pie and cake lifting and turning device. No. 927,823; July 13; Sp. p. 2330; Gaz. vol. 144; p. 402.  
 Thompson, W. D., assignor to Hutchins Car Roofing Company, Detroit, Mich. Door-hanger. No. 941,664; Nov. 30; Sp. p. 7072; Gaz. vol. 148; p. 1195.  
 Thompson, W. H. (See McMahal, J. E., assignor.)  
 Thompson, W. L., Bremen, Ind. Mail-bag delivering and receiving apparatus. No. 931,524; Aug. 17; Sp. p. 3994; Gaz. vol. 145; p. 688.  
 Thompson, W. R., South Norwalk, Conn. Air-compressor. No. 940,751; Nov. 23; Sp. p. 5118; Gaz. vol. 148; p. 872.  
 Thompson, W. S., Wyanet, Ill. Grain-bin. No. 926,366; June 29; Sp. p. 6864; Gaz. vol. 143; p. 1208.  
 Thomsen, J. (See Muehlhausen and Thomsen.)  
 Thomson, A. G., San Francisco, Cal. Vehicle-lamp attachment. No. 936,831; Oct. 12; Sp. p. 2564; Gaz. vol. 147; p. 428.  
 Thomson, T. M., London, England. Apparatus for facilitating communication between telephone-exchanges. No. 935,285; Sept. 23; Sp. p. 4644; Gaz. vol. 146; p. 825.  
 Thomson, D., West Nissouri township, Middlesex county, Ontario, Canada. Cattle-guard. No. 923,383; June 1; Sp. p. 618; Gaz. vol. 143; p. 91.  
 Thomson, D., Portsmouth, Ohio. Envelop. No. 929,515; July 27; Sp. p. 5813; Gaz. vol. 144; p. 1021.  
 Thomson, D. M., et al. (See Corrigan, J., assignor.)  
 Thomson, E., Swampscott, Mass., assignor to General Electric Company. Variable resistance. No. 910,743; Jan. 26; Sp. p. 4730; Gaz. vol. 138; p. 859.  
 Thomson, E., Swampscott, Mass., assignor to General Electric Company. Electrical measuring instrument. No. 917,187; Apr. 6; Sp. p. 458; Gaz. vol. 141; p. 80.  
 Thomson, E., Swampscott, Mass., assignor to General Electric Company. Elastic-fluid turbine. No. 920,789; May 4; Sp. p. 1411; Gaz. vol. 142; p. 228.  
 Thomson, E., Swampscott, Mass., assignor to General Electric Company. Elastic-fluid turbine. No. 920,790; May 4; Sp. p. 1414; Gaz. vol. 142; p. 228.  
 Thomson, E., Swampscott, Mass., assignor to General Electric Company. Oil or gas engine. No. 924,856; June 15; Sp. p. 3786; Gaz. vol. 143; p. 647.  
 Thomson, E., Swampscott, Mass., assignor to General Electric Company. Measuring instrument. No. 925,055; June 15; Sp. p. 4196; Gaz. vol. 143; p. 714.  
 Thomson, E., Swampscott, Mass., assignor to General Electric Company. Electric measuring instrument. No. 927,191; July 6; Sp. p. 1017; Gaz. vol. 144; p. 165.  
 Thomson, E., Swampscott, and R. H. Rice, Lynn, Mass., assignors to General Electric Company. Flexible coupling. No. 925,731; June 22; Sp. p. 5521; Gaz. vol. 143; p. 963.  
 Thomson, E. B. (See Hale, J. B., assignor.)  
 Thomson Electric Welding Company. (See Rietzel, A. F., assignor.)  
 Thomson, F. du P. (See Steckel and Thomson.)  
 Thomson, H. C., assignor to Electric Goods Manufacturing Company, Boston, Mass. Intercommunicating telephone. No. 911,181; Feb. 2; Sp. p. 305; Gaz. vol. 139; p. 54.  
 Thomson, H. N., and W. M. Kelly, Anaconda, Mont. Rabble-arm and rake. No. 940,488; Nov. 16; Sp. p. 4537; Gaz. vol. 148; p. 759.  
 Thomson, J., New York, N. Y., assignor to John Thomson Press Company, Jersey City, N. J. Platen-press. No. 914,531; Mar. 9; Sp. p. 1846; Gaz. vol. 140; p. 315.  
 Thomson, S. G. (See Thomson, W. P. and S. G.)  
 Thomson, T. (See Behrd, G. A., assignor.)  
 Thomson, T. K., Yonkers, N. Y. Underpinning and supporting walls. No. 918,100; Apr. 13; Sp. p. 2315; Gaz. vol. 141; p. 416.  
 Thomson-Thomson Company. (See Thomson, W. P. and S. G., assignors.)  
 Thomson, W., Largs, Scotland. Navigational sounding-machine. No. 923,384; June 1; Sp. p. 619; Gaz. vol. 143; p. 91.  
 Thomson, W., Largs, assignor to K. and J. White Limited, Glasgow, Scotland. Navigational sounding-machine. No. 928,007; July 13; Sp. p. 2709; Gaz. vol. 144; p. 462.  
 Thomson, W. A., Palmerston, Port Darwin, South Australia, Australia. Rain-gage. No. 916,060; Mar. 23; Sp. p. 4920; Gaz. vol. 140; p. 871.  
 Thomson, W. I., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Battery-charging system. No. 911,850; Feb. 9; Sp. p. 1610; Gaz. vol. 139; p. 299.  
 Thomson, W. I., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Lighting system. No. 926,518; June 29; Sp. p. 7128; Gaz. vol. 143; p. 1258.  
 Thomson, W. P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Splice-bar for rail-joints. No. 937,116; Oct. 19; Sp. p. 3138; Gaz. vol. 147; p. 552.



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- Thomson, W. P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Splice-bar for rail-joints. No. 937,118; Oct. 19; Sp. p. 3143; Gaz. vol. 147; p. 553.
- Thomson, W. P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Splice-bar for rail-joints. No. 937,727; Oct. 19; Sp. p. 4434; Gaz. vol. 147; p. 752.
- Thomson, W. P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Splice-bar for rail-joints. No. 941,472; Nov. 30; Sp. p. 6685; Gaz. vol. 148; p. 1132.
- Thomson, W. P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Rail-joint. No. 944,298; Dec. 28; Sp. p. 4855; Gaz. vol. 149; p. 856.
- Thomson, W. S., assignor to H. D. Smith and Company, Plantsville, Conn. Whiffletree clevis-hook. No. 938,524; Nov. 2; Sp. p. 187; Gaz. vol. 148; p. 27.
- Thomson, W. S. and L. H. Schmitt, Plantsville, Conn. Ice-cream freezer. No. 936,384; Oct. 12; Sp. p. 1639; Gaz. vol. 147; p. 278.
- Thordarson, C. H., Chicago, Ill. Electric ignition apparatus for internal-combustion engines. No. 914,532; Mar. 9; Sp. p. 1849; Gaz. vol. 140; p. 315.
- Thordarson, C. H., Chicago, Ill. Alternating-current regulator. No. 921,311; May 11; Sp. p. 2491; Gaz. vol. 142; p. 433.
- Thoré, L. B., Boston, Mass. Ball-cock. No. 912,632; Feb. 16; Sp. p. 3330; Gaz. vol. 139; p. 597.
- Thoreau, J. W., Worland, Wyo. Extensible combined curtain-roller and curtain-pole support. No. 936,583; Oct. 12; Sp. p. 2074; Gaz. vol. 147; p. 344.
- Thorin, P. A., Iron River, Mich. Bottle. No. 940,993; Nov. 23; Sp. p. 5616; Gaz. vol. 148; p. 952.
- Thorin, P. A., Iron River, assignor of one-half to J. Ohlson, Norway, and one-fourth to C. A. Johnson, Iron River, Mich. Door-securer. No. 914,204; Mar. 2; Sp. p. 1174; Gaz. vol. 140; p. 134.
- Thorin, P. A., assignor of one-third to P. O'Brien, Iron River, Mich., and one-sixth to E. W. Hopkins, Commonwealth, Wis. Safety-envelop. No. 941,288; Nov. 23; Sp. p. 6277; Gaz. vol. 148; p. 1051.
- Thorley, A. P. (See Willcocks and Thorley.)
- Thormeyer, F. E., Hamburg, Germany. Apparatus for producing audible moving pictures, pieces of music, and other performances. No. 941,211; Nov. 23; Sp. p. 6112; Gaz. vol. 148; p. 1025.
- Thorn, M. L., Hollywood, and W. M. McGee, Santa Monica, Cal. Well-driller's fishing-tool. No. 944,582; Dec. 28; Sp. p. 5513; Gaz. vol. 149; p. 956.
- Thornburg, J. H., Knightstown, Ind. Fire-escape. No. 936,385; Oct. 12; Sp. p. 1640; Gaz. vol. 147; p. 278.
- Thornburg, L. A., Hartford City, Ind. Glass-drawing machine. No. 922,973; May 25; Sp. p. 5930; Gaz. vol. 142; p. 1034.
- Thornburg, L. A., Muncie, Ind., assignor to Window Glass Machine Company, Pittsburg, Pa. Horse for glass cylinders. No. 916,504; Mar. 30; Sp. p. 5799; Gaz. vol. 140; p. 1044.
- Thornburg, T., East Chicago, Ind. Bung-extractor. No. 908,520; Jan. 5; Sp. p. 183; Gaz. vol. 138; p. 32.
- Thornburg, T., Hammond, Ind. Water-back for furnaces. No. 929,899; Aug. 3; Sp. p. 601; Gaz. vol. 145; p. 94.
- Thornburg, W. H., Greenville, Ill. Holdback device. No. 926,519; June 29; Sp. p. 7130; Gaz. vol. 143; p. 1259.
- Thorne, C. S., Troy, N. Y., assignor to Thorne Hold-Fast Metal Bar Company. Mefal window-sill. No. 932,190; Aug. 24; Sp. p. 545; Gaz. vol. 145; p. 929.
- Thorne Hold-Fast Metal Bar Company. (See Thorne, C. S., assignor.)
- Thornhill, G. A., Royal Oak, London, assignor to Machine Labelling Company, Limited, London, England. Bottle-labeling machine. No. 922,974; May 25; Sp. p. 5933; Gaz. vol. 142; p. 1034.
- Thornhill, W. C., assignor of one-half to C. W. Gardner, Minneapolis, Minn. Electric igniter for explosion-engines. No. 929,262; July 27; Sp. p. 5303; Gaz. vol. 144; p. 937.
- Thornley, A. J., Pawtucket, R. I. Sheet-metal panel. No. 944,059; Dec. 21; Sp. p. 4359; Gaz. vol. 149; p. 751.
- Thornley, A. J., Pawtucket, assignor to Consolidated Car Fender Company, Providence, R. I. Car-fender. No. 935,828; Oct. 5; Sp. p. 494; Gaz. vol. 147; p. 70.
- Thornley, A. J., assignor to Narragansett Machine Company, Pawtucket, R. I. Gymnasium-horse. No. 941,665; Nov. 30; Sp. p. 7073; Gaz. vol. 148; p. 1195.
- Thornton, D. W., and P. L. Hoadley, Seattle, Wash. Combined spring-hinge and door-check. No. 926,520; June 29; Sp. p. 7131; Gaz. vol. 143; p. 1259.
- Thornton, H. H., Somerville, Mass. Flue-cutter. No. 914,088; Mar. 2; Sp. p. 932; Gaz. vol. 140; p. 146.
- Thornton, J. E., Altrincham, England. Daylight-loading film-pack. No. 915,126; Mar. 16; Sp. p. 3065; Gaz. vol. 140; p. 537.
- Thornton, J. E., Altrincham, England. Photographic roller-blind shutter. No. 924,947; June 15; Sp. p. 3966; Gaz. vol. 143; p. 678.
- Thornton, J. E., Altrincham, England. Daylight-loading photographic-film pack. No. 931,525; Aug. 17; Sp. p. 3996; Gaz. vol. 145; p. 689.
- Thornton, J. E., Manchester, England. Photographic shutter. No. 934,581; Sept. 21; Sp. p. 3235; Gaz. vol. 146; p. 564.
- Thornton, J. L. (See Foreman and Thornton.)
- Thornton, L. G., Willowton, W. Va. Wire-stretcher. No. 910,029; Jan. 19; Sp. p. 3219; Gaz. vol. 138; p. 594.
- Thornton, R. A., Sulphur Springs, Tex. Lace-cabinet. No. 919,398; Apr. 27; Sp. p. 5232; Gaz. vol. 141; p. 906.
- Thornton, W. B., *et al.* (See Chesnut, T. S., assignor.)
- Thornton, W. H., Crossett, Ark., assignor of one-half to J. W. Culley, Glass, Miss. Portable fishing-case. No. 908,903; Jan. 5; Sp. p. 976; Gaz. vol. 138; p. 155.
- Thornton, W. N., Cedar Hill, Tex. Cultivator attachment. No. 924,510; June 8; Sp. p. 3037; Gaz. vol. 143; p. 497.
- Thornton, W. S., assignor to Hanlon-Thornton Company, North Attleboro, Mass. Expandible bracelet. No. 914,533; Mar. 9; Sp. p. 1854; Gaz. vol. 140; p. 315.
- Thorp, E. L., Nottingham, assignor to British Hosiery & Electrolytic Bleaching Co., Ltd., London, England. Electrolyzing apparatus. No. 930,902; Aug. 10; Sp. p. 2640; Gaz. vol. 145; p. 452.
- Thorp, T., Whitfield, near Manchester, England, assignor to Rotary Meter Company. Rotary gas-meter. No. 910,436; Jan. 19; Sp. p. 4096; Gaz. vol. 138; p. 734.
- Thorp, T. J., Corvallis, Oreg. Seeding and drilling machine. No. 909,478; Jan. 12; Sp. p. 2113; Gaz. vol. 138; p. 375.
- Thorp, T. J., Corvallis, Oreg. Wheel. No. 912,758; Feb. 16; Sp. p. 3636; Gaz. vol. 139; p. 641.
- Thorp, T. J., Corvallis, Oreg. Wheel. No. 912,919; Feb. 16; Sp. p. 3916; Gaz. vol. 139; p. 690.
- Thorp, W. H., Minneapolis, Minn. Lock. No. 920,501; May 4; Sp. p. 819; Gaz. vol. 142; p. 132.
- Thorpe, J. H., Chelsea, London, England. Toy parachute. No. 910,157; Jan. 19; Sp. p. 3471; Gaz. vol. 138; p. 635.
- Thorsch, S., Prague, Austria-Hungary. Fastening device for overshoes. No. 916,061; Mar. 23; Sp. p. 4921; Gaz. vol. 140; p. 872.
- Thorschmidt, E. C., New York, N. Y. Stave-cutting machine. No. 934,769; Sept. 21; Sp. p. 3603; Gaz. vol. 146; p. 628.
- Thorsell, G. W., Chicago, Ill. Shears. No. 913,072; Feb. 23; Sp. p. 4230; Gaz. vol. 139; p. 766.
- Thorson, M., Sanders, Mont. Rail-joint. No. 941,473; Nov. 30; Sp. p. 6688; Gaz. vol. 148; p. 1133.
- Thos, H., Dallett. (See Van Sickle, W. H., assignor.)
- Thrall, G. C., *et al.* (See Goddard, G. M., assignor.)
- Thrasher Clock Company. (See Thrasher, S. P., assignor.)
- Thrasher, E. E. (See McCormick and Thrasher.)
- Thrasher, G. W., and W. W. Payne, Pratt City, Ala. Sectional wire fence. No. 932,355; Aug. 24; Sp. p. 5759; Gaz. vol. 145; p. 983.
- Thrasher, S. P., assignor to Thrasher Clock Company, Manchester, Conn. Time-indicating device. No. 914,534; Mar. 9; Sp. p. 1856; Gaz. vol. 140; p. 316.
- Threadless Lock-Nut and Bolt Company of the United States. (See Nesdall, J. T., assignor.)
- Throener, W., Westpoint, Nebr. Potato-planter. No. 927,192; July 6; Sp. p. 3019; Gaz. vol. 144; p. 165.
- Throop, J. D., Detroit, Mich. Steam-valve. No. 916,629; Mar. 30; Sp. p. 6047; Gaz. vol. 140; p. 1084.
- Thropp, P. D., Trenton, N. J. Tire-mold. No. 911,182; Feb. 2; Sp. p. 307; Gaz. vol. 139; p. 55.
- Thudichum, C. L., Roland Park, Md. Steam-generator. No. 914,618; Mar. 9; Sp. p. 2025; Gaz. vol. 140; p. 345.
- Thull, P. J., Los Angeles, Cal. Excavating, grading, and conveying machine. No. 908,820; Jan. 5; Sp. p. 809; Gaz. vol. 138; p. 127.
- Thullen, L. H., Edgewood, assignor to Union Switch & Signal Company, Swissvale, Pa. Relay. No. 916,505; Mar. 30; Sp. p. 5800; Gaz. vol. 140; p. 1044.
- Thum, M., Rochester, N. Y. Chair. No. 938,915; Nov. 2; Sp. p. 1024; Gaz. vol. 148; p. 162.
- Thun, F., Wyomissing, near Reading, Pa. Lacing-tip. No. 931,811; Aug. 24; Sp. p. 4638; Gaz. vol. 145; p. 803.
- Thun, F., Reading, Pa. Reinforced concrete. No. 939,567; Nov. 9; Sp. p. 2475; Gaz. vol. 148; p. 410.
- Thun, F., and W. J. Lücke, assignors to Narrow Fabric Company, Wyomissing, Pa. Braided fabric. No. 936,492; Oct. 12; Sp. p. 1893; Gaz. vol. 147; p. 313.
- Thunberg, E., Bofors, Sweden. Method and means for working eccentrically-rotating parts. No. 923,732; June 1; Sp. p. 1356; Gaz. vol. 143; p. 211.
- Thurber, M. S., *et al.* (See Brandt, H. E., assignor.)
- Thurber, M. S., *et al.* (See Brandt, P. and H. E., assignors.)
- Thurber, T. R., Stockton, Cal. Engine. No. 928,715; July 20; Sp. p. 4178; Gaz. vol. 144; p. 728.

*Alphabetical list of patentees—Continued.*

- Thürey, E., Kalk, assignor to Association Thürey-Schreibmaschinen-Gesellschaft mit beschränkter Haftung, Cologne, Germany. Type-writing machine. No. 925,530; June 22; Sp. p. 5096; Gaz. vol. 143; p. 898.
- Thurgar, E. W., Hyde Park, London, England. Implement for punching, perforating, or stamping. No. 934,635; Sept. 21; Sp. p. 3356; Gaz. vol. 146; p. 584.
- Thurm, A. (See Thurm, H. and A.)
- Thurm, H. and A., New Haven, Conn. Gate for beds, &c. No. 908,904; Jan. 5; Sp. p. 977; Gaz. vol. 138; p. 156.
- Thurman, J. S., St. Louis, Mo. Pneumatic cotton-picking system. No. 918,794; Apr. 20; Sp. p. 3796; Gaz. vol. 141; p. 674.
- Thurman, J. S., St. Louis, Mo. Suction-head for vacuum cotton-pickers. No. 918,795; Apr. 20; Sp. p. 3798; Gaz. vol. 141; p. 674.
- Thurman, J. S., St. Louis, Mo. Dandruff-removing device. No. 918,929; Apr. 20; Sp. p. 4102; Gaz. vol. 141; p. 719.
- Thurman, J. S., St. Louis, Mo. Self-closing valve for vacuum cleaning-tools. No. 918,930; Apr. 20; Sp. p. 4103; Gaz. vol. 141; p. 720.
- Thurman, J. S., St. Louis, Mo. Combined disinfecting and grease-removing apparatus. No. 918,931; Apr. 20; Sp. p. 4105; Gaz. vol. 141; p. 720.
- Thurman, J. S., St. Louis, Mo. Dust-display device for vacuum cleaning-tools. No. 918,932; Apr. 20; Sp. p. 4106; Gaz. vol. 141; p. 720.
- Thurman, J. S., St. Louis, Mo. Suction-head for vacuum cotton-pickers. No. 932,068; Aug. 24; Sp. p. 5205; Gaz. vol. 145; p. 888.
- Thurman, J. S., Los Angeles, Cal. Eraser. No. 938,725; Nov. 2; Sp. p. 597; Gaz. vol. 148; p. 94.
- Thurman, S. M., Los Angeles, Cal. Attachment for miners' candlesticks. No. 908,821; Jan. 5; Sp. p. 814; Gaz. vol. 138; p. 127.
- Thurman, W., Plymouth, Wis. Feed-cutter. No. 935,947; Oct. 5; Sp. p. 740; Gaz. vol. 147; p. 109.
- Thurman, W. N., Mounds, Okla. Saw grub-plow. No. 925,613; June 22; Sp. p. 5267; Gaz. vol. 143; p. 926.
- Thurman, W. N., Springfield, Mo. Drive-gear for mechanically-propelled vehicles. No. 935,707; Oct. 5; Sp. p. 182; Gaz. vol. 147; p. 28.
- Thurmond, C. A., Perry, Ga. Cotton-planter. No. 924,204; June 8; Sp. p. 2433; Gaz. vol. 143; p. 396.
- Thurnauer, K., Nuremberg, Germany. Acetylene-burner. No. 930,574; Aug. 10; Sp. p. 1959; Gaz. vol. 145; p. 345.
- Thurstans, A. J., Newark, N. J. Safety-catch. No. 938,090; Oct. 26; Sp. p. 5210; Gaz. vol. 147; p. 895.
- Thurston, E. L. (See Murrey, J. P., assignor.)
- Thurston, F. A., assignor of one-half to A. Stewart, Jr., Lynn, Mass. Driving and reversing mechanism. No. 938,800; Nov. 2; Sp. p. 745; Gaz. vol. 148; p. 121.
- Thurston, J. M., trustee. (See Miller, J. A., assignor.)
- Thurstone, L. L., Jamestown, N. Y. Projecting continuous photographic pictures. No. 943,326; Dec. 14; Sp. p. 2773; Gaz. vol. 145; p. 468.
- Thwaites, J. H., Peterborough, England. Treatment of pyrites liquor for winning metals therefrom. No. 921,312; May 11; Sp. p. 2493; Gaz. vol. 142; p. 433.
- Thwaites, J. H., Peterborough, England. Wet method of separating metallic compounds. No. 935,337; Sept. 28; Sp. p. 4759; Gaz. vol. 146; p. 842.
- Thwing, C. B., Philadelphia, Pa. Pyrometer. No. 919,399; Apr. 27; Sp. p. 5233; Gaz. vol. 141; p. 907.
- Thwing, C. B., Philadelphia, Pa. Recorder for electrical measuring instruments. No. 923,606; June 1; Sp. p. 1114; Gaz. vol. 143; p. 170.
- Thwing, O. O., Fort Wayne, Ind. Compound stuffing-box for rods, stems, and shafts. No. 909,479; Jan. 12; Sp. p. 2115; Gaz. vol. 138; p. 375.
- Tibbals, D. (See Scott and Tibbals.)
- Tibbetts, A. W. (See Smith, J. P., assignor.)
- Tibbetts, F. E., West Somerville, Mass. Folding chair. No. 916,062; Mar. 23; Sp. p. 4922; Gaz. vol. 140; p. 872.
- Tibbetts, G. M., et al. (See Josselyn, J. A., assignor.)
- Tibbetts, H. F., Oxford, Mass. Skirt and garment supporter. No. 930,814; Aug. 10; Sp. p. 2449; Gaz. vol. 145; p. 424.
- Tibbitts, C. H., Saginaw, Mich. Weather-strip. No. 927,900; July 13; Sp. p. 2503; Gaz. vol. 144; p. 427.
- Tibbs, J. M., Hazel Green, Ky. Lubricating device. No. 924,948; June 15; Sp. p. 3969; Gaz. vol. 143; p. 678.
- Tiberghien, C., Tourcoing, France. Welt-replenishing loom. No. 932,831; Aug. 31; Sp. p. 6781; Gaz. vol. 145; p. 1163.
- Tice, A. J., assignor to American Case & Register Company, Salem, Ohio. Follower-plate and holder for files. No. 944,223; Dec. 21; Sp. p. 4684; Gaz. vol. 149; p. 803.
- Tice, C. O., et al. (See Morris, R. C., assignor.)
- Tice, F. B., Polo, Ill. Gate. No. 939,568; Nov. 9; Sp. p. 2478; Gaz. vol. 148; p. 411.
- Tichenor, C. M., and J. Shoup, Clyde, Ohio. Window-shade and curtain-pole bracket. No. 931,002; Aug. 10; Sp. p. 2881; Gaz. vol. 145; p. 484.
- Tidd, H., Georgetown, Mass. Fruit-picker. No. 914,205; Mar. 2; Sp. p. 1175; Gaz. vol. 140; p. 184.
- Tidmarsh, W. H., Elgin, Ill. Electrical fuse. No. 918,223; Apr. 13; Sp. p. 2564; Gaz. vol. 141; p. 457.
- Tiemann, H. D., New Haven, Conn. Rapidly drying timber and other moisture-bearing substances. No. 942,150; Dec. 7; Sp. p. 272; Gaz. vol. 149; p. 41.
- Tiemann, O. (See Behnke and Tiemann.)
- Tiernan, W., and H. M. Schreiber, Rolfe, Iowa. Draft appliance. No. 942,599; Dec. 7; Sp. p. 1184; Gaz. vol. 149; p. 193.
- Tierney, H. A., assignor of one-half to J. J. Egan, Newport, R. I. Shutter-releasing device. No. 941,592; Nov. 30; Sp. p. 6917; Gaz. vol. 148; p. 1171.
- Tietjens, H., Hamburg, assignor to Hannoversche Cakesfabrik H. Bahlens, Hanover, Germany. Biscuit-coating machine. No. 943,284; Dec. 14; Sp. p. 2699; Gaz. vol. 149; p. 456.
- Tiffany, A. R., deceased; C. I. Tiffany, Dayton, Ohio, administratrix, assignor to O-K Paper Pail Company, Middletown, Ohio. Bailing-machine. No. 918,395; Apr. 13; Sp. p. 2903; Gaz. vol. 141; p. 512.
- Tiffany, A. R., Dayton, assignor to O-K Paper Pail Company, Middletown, Ohio. Stapling-machine. No. 925,531; June 22; Sp. p. 5099; Gaz. vol. 143; p. 898.
- Tiffany, C. I., administratrix. (See Tiffany, A. R.)
- Tiffany, G. S., Hutchinson, Kans. Tailor's measuring device. No. 932,649; Aug. 31; Sp. p. 6401; Gaz. vol. 145; p. 1104.
- Tiffany, G. S., Summit, N. J., assignor to Gray National Telautograph Company, New York, N. Y. Telautograph. No. 923,385; June 1; Sp. p. 620; Gaz. vol. 143; p. 91.
- Tiffany, G. S., Summit, N. J., assignor to Gray National Telautograph Company, New York, N. Y. Telautograph. No. 924,512; June 8; Sp. p. 3040; Gaz. vol. 143; p. 498.
- Tiffany, R. D., Bellingham, Wash. Circuit-closer for fire-alarm circuits. No. 911,921; Feb. 9; Sp. p. 1745; Gaz. vol. 139; p. 323.
- Tiffany, R. D., Bellingham, Wash. Incandescent lamp. No. 941,593; Nov. 30; Sp. p. 6918; Gaz. vol. 148; p. 1171.
- Tigerman, W. H. (See Plautz, D. M., assignor.)
- Tilden, B. O., assignor to American Sanitary Works, New York, N. Y. Flush-tank-operating device. (Reissue.) No. 12,910; Jan. 12; Sp. p. 2853; Gaz. vol. 138; p. 503.
- Tilden, B. O., assignor to American Sanitary Works, New York, N. Y. Flush-tank-operating device. No. 915,636; Mar. 16; Sp. p. 4090; Gaz. vol. 140; p. 706.
- Tilden, B. O., assignor to American Sanitary Works, New York, N. Y. Flush-tank operating device. No. 915,637; Mar. 16; Sp. p. 4093; Gaz. vol. 140; p. 707.
- Tilden, J., Johannesburg, Cal. Horse-cover. No. 918,796; Apr. 20; Sp. p. 3800; Gaz. vol. 141; p. 674.
- Tiley, T. W., Bellingham, Wash. Cable-grip. No. 911,460; Feb. 2; Sp. p. 830; Gaz. vol. 139; p. 146.
- Tilghman, R. C., Anacostia, D. C. Balloon. No. 939,644; Nov. 9; Sp. p. 2649; Gaz. vol. 148; p. 438.
- Tilghman, R. L., Birmingham, Ala. Locker-refrigerator. No. 938,620; Nov. 2; Sp. p. 395; Gaz. vol. 148; p. 59.
- Tillery, C. B., London, Ky. Wagon-bed. No. 939,758; Nov. 9; Sp. p. 2908; Gaz. vol. 148; p. 477.
- Tillinghast, J., trustee. (See Loring, B. C., assignor.)
- Tillman, F. J., St. Louis, Mo. Calculating attachment for type-writing machines. No. 913,859; Mar. 2; Sp. p. 379; Gaz. vol. 140; p. 64.
- Tillman, F. J., St. Louis, Mo. Calculating attachment for type-writing machines. No. 933,600; Sept. 7; Sp. p. 1304; Gaz. vol. 146; p. 194.
- Tillotson, M., Providence, assignor to J. W. Coggeshall, Cranston, R. I. Humidifier. No. 939,351; Nov. 9; Sp. p. 1992; Gaz. vol. 148; p. 338.
- Tilston, B. R., Portland, Me. Demountable rim. No. 925,532; June 22; Sp. p. 5102; Gaz. vol. 143; p. 898.
- Tip, J., Hoboken, N. J., assignor, by mesne assignments, to H. C. Meyer, Jr., Harburg, Germany. Machine for inserting diagonal strands into woven-cane fabrics. No. 929,345; July 27; Sp. p. 5523; Gaz. vol. 144; p. 968.
- Tip, J., Hoboken, N. J., assignor to H. C. Meyer, Jr., Harburg, Germany. Needle mechanism for cane-loom. No. 929,346; July 27; Sp. p. 5526; Gaz. vol. 144; p. 968.
- Tip, J., Hoboken, N. J., assignor to H. C. Meyer, Jr., Harburg, Germany. Web-cutting mechanism for cane-loom. No. 941,112; Nov. 23; Sp. p. 5882; Gaz. vol. 148; p. 991.
- Tilson, W. H., Plainview, Tex. Corn-harvesting machine. No. 927,613; July 13; Sp. p. 1881; Gaz. vol. 144; p. 332.
- Tilston, E. (See Conradi, Tilston, and Masson.)
- Tilton, F. N., Hartford, Conn. Steam-generator. No. 913,442; Feb. 23; Sp. p. 4978; Gaz. vol. 139; p. 891.
- Tilton, F. N., Hartford, Conn. Screw-slotting machine. No. 913,585; Feb. 23; Sp. p. 5302; Gaz. vol. 139; p. 938.
- Tilton, F. N., Hartford, Conn. Steam-generator. No. 939,759; Nov. 9; Sp. p. 2909; Gaz. vol. 148; p. 477.
- Tilton, S. M. (See Flight and Tilton.)
- Timberlake, D. T., Baileyville, Kans. Traction-engine. No. 927,085; July 6; Sp. p. 818; Gaz. vol. 144; p. 131.
- Time Saver Company. (See Purviance, N. M., assignor.)



*Alphabetical list of patentees—Continued.*

- Timberman, E. J. C., assignor to L. C. Crowell, Syracuse, N. Y. Puncture-proof tire. No. 923,733; June 1; Sp. p. 1357; Gaz. vol. 143; p. 212.
- Timken Roller Bearing Axle Company. (See Alden, H. W., assignor.)
- Timin, F. G., Minneapolis, Minn. Shield for corn-cultivators. No. 927,296; July 6; Sp. p. 1214; Gaz. vol. 144; p. 199.
- Timme, A. F. (See Gramm and Timme.)
- Timmerhoff, E., Warsaw, Ind. Gas-lighting system for automobiles. No. 924,513; June 8; Sp. p. 3044; Gaz. vol. 143; p. 498.
- Timmerman, A. H., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Dynamo-electric machine. No. 921,914; May 18; Sp. p. 3753; Gaz. vol. 142; p. 661.
- Timmons, B., McKinney, Tex. Automatic fish-hook. No. 911,781; Feb. 9; Sp. p. 1483; Gaz. vol. 139; p. 277.
- Timmons, C. W., Wolcott, Ind. Stamp-vending machine. No. 943,285; Dec. 14; Sp. p. 2700; Gaz. vol. 149; p. 456.
- Timmons, E. S., Chicago, Ill. Knife. No. 916,630; Mar. 30; Sp. p. 6048; Gaz. vol. 140; p. 1084.
- Timmons, F., assignor of one-half to V. E. Davis, Denver, Colo. Metal railway-tie. No. 912,920; Feb. 16; Sp. p. 3917; Gaz. vol. 139; p. 690.
- Timmons, J. M., Delaware, Ohio. Mold for making concrete structures. No. 940,090; Nov. 16; Sp. p. 3643; Gaz. vol. 148; p. 622.
- Timmons, W. O., Frankfort, Ind. Rail-tie and fastener. No. 930,437; Aug. 10; Sp. p. 1641; Gaz. vol. 145; p. 297.
- Timms, J., Columbus, Ohio. Car-truck. No. 921,636; May 11; Sp. p. 3174; Gaz. vol. 142; p. 543.
- Timms, J., Columbus, Ohio. Railway-rail tie and rail-fastening. No. 928,008; July 13; Sp. p. 2710; Gaz. vol. 144; p. 462.
- Timms, J., Columbus, Ohio. Car-coupling. No. 934,582; Sept. 21; Sp. p. 3237; Gaz. vol. 146; p. 564.
- Timms, J., Columbus, Ohio. Railway-rail-fastening device. No. 934,583; Sept. 21; Sp. p. 3239; Gaz. vol. 146; p. 564.
- Tin Products Company. (See Kügelgen and Seward, assignors.)
- Tindal, M. D., Columbia, S. C. Automobile-axle. No. 942,151; Dec. 7; Sp. p. 274; Gaz. vol. 149; p. 42.
- Tindall, C. W., Denver, Colo. Handle for shears or scissors. No. 923,734; June 1; Sp. p. 1360; Gaz. vol. 143; p. 212.
- Tindel, A., Philadelphia, assignor to Tindel-Morris Company, Eddystone, Pa. Lathe. No. 934,636; Sept. 21; Sp. p. 3358; Gaz. vol. 146; p. 585.
- Tindel-Morris Company. (See Tindel, A., assignor.)
- Tingley, B. H., Hamilton, Wash. Air-ship. No. 921,915; May 18; Sp. p. 3755; Gaz. vol. 142; p. 661.
- Tingley, D. E., Marshall, Ill. Concrete-mold. No. 931,351; Aug. 17; Sp. p. 3666; Gaz. vol. 145; p. 633.
- Tinlin, J. (See Williams, Jr., and Tinlin.)
- Tinsley, F. M., Blakesburg, Iowa. Hay-stacker. No. 912,510; Feb. 16; Sp. p. 3068; Gaz. vol. 139; p. 553.
- Tinsman, S. H., Fort Madison, Iowa. Planter. No. 931,898; Aug. 24; Sp. p. 4806; Gaz. vol. 145; p. 829.
- Tinstman, J. W., Butler, Ind. Smoke-stack base for chimney-tops. No. 933,275; Sept. 7; Sp. p. 565; Gaz. vol. 146; p. 86.
- Tippery, J. S., Omaha, Neb. Pocket postal scale. No. 931,812; Aug. 24; Sp. p. 4639; Gaz. vol. 145; p. 803.
- Tippery, J. T., Bloomfield, Neb. Measuring attachment for scissors. No. 944,925; Dec. 28; Sp. p. 6234; Gaz. vol. 149; p. 1071.
- Tippett, J. F., *et al.* (See Washington, D. E., assignor.)
- Tippett, R. B. (See Brewington, H. S., assignor.)
- Tippit, T., Olney, Ill. Check-bit. No. 933,864; Sept. 14; Sp. p. 1842; Gaz. vol. 146; p. 304.
- Tippit, W. P., Fayette, Mo. Fan for sewing-machines and the like. No. 932,832; Aug. 31; Sp. p. 6783; Gaz. vol. 145; p. 1163.
- Tippmann, B., Columbus, Ohio. Vehicle. No. 928,564; July 20; Sp. p. 3870; Gaz. vol. 144; p. 677.
- Tirrell, A. A., Schenectady, N. Y., assignor to General Electric Company. Constant-current regulator. No. 924,857; June 15; Sp. p. 3789; Gaz. vol. 143; p. 648.
- Tirrell, L. A., Lynn, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 917,188; Apr. 6; Sp. p. 460; Gaz. vol. 141; p. 81.
- Tischler, J., and O. Henklein, East Portchester, Conn. Car-step. No. 935,068; Sept. 28; Sp. p. 4219; Gaz. vol. 146; p. 754.
- Tish, W. H., von, Montclair, N. J. Magnetic motor. No. 926,369; June 29; Sp. p. 6868; Gaz. vol. 143; p. 1208.
- Tishler, J. J., Port Chester, N. Y. Envelop. No. 926,624; June 29; Sp. p. 7334; Gaz. vol. 143; p. 1294.
- Tissot, J., Paris, France. Respiratory apparatus. No. 932,515; Aug. 31; Sp. p. 6103; Gaz. vol. 145; p. 1059.
- Titan Gesellschaft mit beschränkter Haftung. (See Kühne, K. A., assignor.)
- Titanium Alloy Manufacturing Company. (See Rossi, A. J., assignor.)
- Titchener, C. E., Binghamton, N. Y. Bow-separator. No. 933,933; Sept. 14; Sp. p. 1976; Gaz. vol. 146; p. 326.
- Titcomb, G. E., Philadelphia, Pa., assignor to Dodge Coal Storage Company, Naugatuck, Conn. Canal-boat-dumping apparatus. No. 918,224; Apr. 13; Sp. p. 2565; Gaz. vol. 141; p. 457.
- Titcomb, G. E., Philadelphia, Pa., assignor to Dodge Coal Storage Company, Naugatuck, Conn. Friction-clutch. No. 932,356; Aug. 24; Sp. p. 5761; Gaz. vol. 145; p. 983.
- Titcomb, G. E., Philadelphia, Pa., assignor to J. M. Dodge Company, Naugatuck, Conn. Brake mechanism. No. 926,625; June 29; Sp. p. 7335; Gaz. vol. 143; p. 1294.
- Tittle, R. D., Springfield, Ohio. Operating mechanism for the dollies of washing-machines. No. 937,195; Oct. 19; Sp. p. 3318; Gaz. vol. 147; p. 577.
- Tittle, R. D., Springfield, Ohio. Operating device for driven mechanisms. No. 938,726; Nov. 2; Sp. p. 598; Gaz. vol. 148; p. 94.
- Tittle, R. D., Springfield, Ohio. Intermittent grip device. No. 938,727; Nov. 2; Sp. p. 602; Gaz. vol. 148; p. 95.
- Titus, G. L., *et al.* (See Jahansan, G., assignor.)
- Titus, J. C., Marion, Ohio. Block-molding press. No. 918,712; Apr. 20; Sp. p. 3652; Gaz. vol. 141; p. 647.
- Titus, J. E. (See Titus, J. H., assignor.)
- Titus, J. H., assignor to J. E. Titus, Westfield, N. J. Presser-foot attachment for sewing-machine needles. No. 936,386; Oct. 12; Sp. p. 1643; Gaz. vol. 147; p. 278.
- Tixier, A., assignor to Les Produits Chimique de Croissy (J. Basler & Co.), Paris, France. Preparation of caoutchouc. No. 924,117; June 8; Sp. p. 2187; Gaz. vol. 143; p. 365.
- Tizard, A. T., Durango, Colo. Tire. No. 941,289; Nov. 23; Sp. p. 6279; Gaz. vol. 148; p. 1051.
- Toback, L., Union Hill, N. J., assignor to Anti-Water Overflow Co. Valve-lock. No. 923,090; May 25; Sp. p. 6172; Gaz. vol. 142; p. 1071.
- Tobey, S. B. (See Hamrick and Tobey.)
- Tobey, T. S., South Norwalk, Conn. Box-fastener. No. 927,614; July 13; Sp. p. 1886; Gaz. vol. 144; p. 333.
- Tobey, W. L., Winthrop, Mass. Silencer for internal-combustion engines. No. 940,290; Nov. 16; Sp. p. 4081; Gaz. vol. 148; p. 692.
- Tobey, W. L., Winthrop, Mass. Under-water exhaust-outlet for internal-combustion engines. No. 940,291; Nov. 16; Sp. p. 4082; Gaz. vol. 148; p. 692.
- Tobin, E. J. (See Keenan and Tobin.)
- Tobin, J. J., Oneonta, N. Y. Ice-cutting machine. No. 932,729; Aug. 31; Sp. p. 6568; Gaz. vol. 145; p. 1131.
- Tobin, J. M., New York, N. Y. Attachment for tooth-powder receptacles. No. 932,833; Aug. 31; Sp. p. 6784; Gaz. vol. 145; p. 1164.
- Toborg, G., Chicago, Ill. Holder for safety-razor blades. No. 910,096; Jan. 19; Sp. p. 3348; Gaz. vol. 138; p. 616.
- Toch, M., New York, N. Y. Treating Portland-cement surfaces and product. No. 943,327; Dec. 14; Sp. p. 2782; Gaz. vol. 149; p. 469.
- Todd, C., Pittsburg, Pa. Attachment for vehicles. No. 912,759; Feb. 16; Sp. p. 3637; Gaz. vol. 139; p. 641.
- Todd, C., Pittsburg, Pa. Automobile-brake. No. 937,557; Oct. 19; Sp. p. 4106; Gaz. vol. 147; p. 698.
- Todd & Co., E. (See Haring, J. C., assignor.)
- Todd, F., assignor to J. B. Long, Chicago, Ill. Radiator for automobiles. No. 934,584; Sept. 21; Sp. p. 3241; Gaz. vol. 146; p. 565.
- Todd, F. F., Uniondale, Pa. Assorting-cabinet. No. 937,659; Oct. 19; Sp. p. 4276; Gaz. vol. 147; p. 730.
- Todd, F. T., Pittsburg, and C. McInnes, Carnegie, Pa. Gas-burner. No. 938,182; Oct. 26; Sp. p. 5419; Gaz. vol. 147; p. 924.
- Todd, H. C., Oak Park, and C. Mayr, Chicago, Ill., assignors to Chicago Fireproof Covering Co. Vitrified cement product and making same. No. 935,616; Sept. 28; Sp. p. 5327; Gaz. vol. 146; p. 934.
- Todd, I. C., Middleboro, Ky. Car-wheel. No. 929,347; July 27; Sp. p. 5528; Gaz. vol. 144; p. 968.
- Todd, J. C., Sioux City, Iowa. Clamp. No. 932,516; Aug. 31; Sp. p. 6105; Gaz. vol. 145; p. 1059.
- Todd, J. H., Erie, Kans. Burial-receptacle. No. 908,628; Jan. 5; Sp. p. 414; Gaz. vol. 138; p. 67.
- Todd, J. W., Jr., assignor to O. S. Johnson and C. M. Cain, Jackson, Miss. Electric cigar-lighter. No. 914,995; Mar. 9; Sp. p. 2758; Gaz. vol. 140; p. 465.
- Todd, M. J., assignor to Buffalo Pitts Company, Buffalo, N. Y. Traction-coupling. No. 910,329; Jan. 19; Sp. p. 3881; Gaz. vol. 138; p. 698.
- Todd, M. J., and D. Farquhar, assignors to Buffalo Steam Roller Company, Buffalo, N. Y. Road-roller. No. 939,877; Nov. 9; Sp. p. 3133; Gaz. vol. 148; p. 517.
- Todd, R. T., Hamtramck, Mich. Wheelbarrow. No. 931,096; Aug. 17; Sp. p. 3098; Gaz. vol. 145; p. 543.
- Todisco, T., Philadelphia, Pa. Means for checking horses. No. 911,183; Feb. 2; Sp. p. 309; Gaz. vol. 139; p. 55.
- Todt, E. H., Morrisonville, Ill. Door-latch. No. 922,975; May 25; Sp. p. 5034; Gaz. vol. 142; p. 1035.
- Tennes, E., Boonville, Mo. Fence-post. No. 931,236; Aug. 17; Sp. p. 3412; Gaz. vol. 145; p. 592.
- Toepfer, P. G., Milwaukee, Wis. Cooling structure. No. 908,905; Jan. 5; Sp. p. 978; Gaz. vol. 138; p. 156.
- Toerring, C. J., Philadelphia, Pa. Electric-arc lamp. No. 920,220; May 4; Sp. p. 258; Gaz. vol. 142; p. 41.
- Toffler, A., Cleveland, Ohio. Shaving-mug. No. 940,409; Nov. 16; Sp. p. 4381; Gaz. vol. 148; p. 733.
- Tojetti, K. V., New York, N. Y. Corset. No. 938,353; Oct. 26; Sp. p. 5791; Gaz. vol. 147; p. 983.
- Toland, D. L., assignor to M. B. Toland, Bayonne, N. J. Feed-bag. No. 927,193; July 6; Sp. p. 1021; Gaz. vol. 144; p. 165.

*Alphabetical list of patentees—Continued.*

- Toland, M. B. (See Toland, D. L., assignor.)  
 Toledo Computing Scale Company. (See De Villbiss, A., Jr., assignor.)  
 Toledo Computing Scale Company. (See Hansen, N. M., assignor.)  
 Toledo Computing Scale Company. (See Wetzel, L. C., assignor.)  
 Toledo Electric Welding Company. (See Buchenberg, A. E., assignor.)  
 Toledo Gas Floor Furnace Company. (See Short, R. L., assignor.)  
 Toledo Glass Company. (See Bock, W. E., assignor.)  
 Toledo Glass Company. (See Graves and Whittemore, assignors.)  
 Toledo Pipe Threading Machine Company. (See Foster, C. M., assignor.)  
 Toles, J. K., Los Angeles, Cal. Apparatus for cleaning and preparing fiber. No. 911,529; Feb. 2; Sp. p. 967; Gaz. vol. 139; p. 168.  
 Toles, J. K., Los Angeles, Cal. Fiber-cleaning apparatus. No. 939,569; Nov. 9; Sp. p. 2478; Gaz. vol. 148; p. 411.  
 Toles, J. K., Los Angeles, Cal. Fiber conveying and reversing apparatus. No. 944,583; Dec. 28; Sp. p. 5515; Gaz. vol. 149; p. 957.  
 Toles, J. K., assignor to Bauer & Black, Chicago, Ill. Forming sacks for suspensory bandages. No. 924,294; June 8; Sp. p. 2621; Gaz. vol. 143; p. 426.  
 Toles, S., Mount Brydges, Ontario, Canada. Embedded heel-protecting plate. No. 921,182; May 11; Sp. p. 2217; Gaz. vol. 142; p. 390.  
 Toletti, S., *et al.* (See Ferrari, P., assignor.)  
 Tolf, A., Chicago, Ill. Counterbalancing elevator-door. No. 927,012; July 6; Sp. p. 639; Gaz. vol. 144; p. 104.  
 Tolliver, A. C., Ainsworth, Nebr. Envelop. No. 929,516; July 27; Sp. p. 5814; Gaz. vol. 144; p. 1021.  
 Tolles, W. M., East Toledo, Ohio. Blow-off valve. No. 911,782; Feb. 9; Sp. p. 1455; Gaz. vol. 139; p. 278.  
 Tolley, O. H., and J. T. Taylor, South Boston, Va. Track-surfacing level. No. 931,973; Aug. 24; Sp. p. 4995; Gaz. vol. 145; p. 856.  
 Tollzien, C. F., Salem, Ohio. Sanitary washbowl. No. 913,323; Feb. 23; Sp. p. 4753; Gaz. vol. 139; p. 851.  
 Tolman, A. L., Orange, Mass. Combined shears and cigar-tip cutter. No. 909,347; Jan. 12; Sp. p. 1861; Gaz. vol. 138; p. 333.  
 Tolman, A. L., and F. L. Taylor, assignors to Novel Idea Company, Orange, Mass. Device for making designs. No. 914,322; Mar. 2; Sp. p. 1422; Gaz. vol. 140; p. 219.  
 Tolman, C. A., Greenland, N. H. Jar-opener. No. 934,237; Sept. 14; Sp. p. 2579; Gaz. vol. 146; p. 427.  
 Tolman, R. P., Berkeley, Cal. Artist's wet-canvas carrier. No. 941,212; Nov. 23; Sp. p. 6117; Gaz. vol. 148; p. 1026.  
 Tolman, S. H., Boston, Mass. Collar-fastener. No. 911,630; Feb. 9; Sp. p. 1200; Gaz. vol. 139; p. 227.  
 Tomberlin, J. H., Nicholls, Ga. Rosin-vat. No. 934,374; Sept. 14; Sp. p. 2831; Gaz. vol. 146; p. 473.  
 Tomer, E., Visalia, Cal. Sprinkling-machine. No. 937,660; Oct. 19; Sp. p. 4277; Gaz. vol. 147; p. 730.  
 Tomison, W. A., Quitman, Tex. Rural-free-delivery cabinet. No. 910,880; Jan. 26; Sp. p. 5003; Gaz. vol. 138; p. 902.  
 Tomison, W. A., Quitman, Tex. Folding crate and coop. No. 926,367; June 29; Sp. p. 6865; Gaz. vol. 143; p. 1208.  
 Tomkins, A., Pittsburg, Pa. Furnace. No. 944,299; Dec. 28; Sp. p. 4858; Gaz. vol. 149; p. 856.  
 Tomkinson, R. S., Rush, N. Y. Feed-mill. No. 909,348; Jan. 12; Sp. p. 1862; Gaz. vol. 138; p. 334.  
 Tomlin, C. W. (See Turnbull and Tomlin.)  
 Tomlinson, C. E., assignor to A. T. Brown, Syracuse, N. Y. Type-writing machine. No. 920,221; May 4; Sp. p. 262; Gaz. vol. 142; p. 42.  
 Tomlinson, C. E., assignor to A. T. Brown, Syracuse, N. Y. Type-writing machine. No. 926,149; June 29; Sp. p. 6407; Gaz. vol. 143; p. 1137.  
 Tomlinson, C. H., Mansfield, Ohio. Car-coupling. No. 941,965; Nov. 30; Sp. p. 7719; Gaz. vol. 148; p. 1300.  
 Tomlinson, C. H., Mansfield, Ohio, assignor to Tomlinson Coupler Company, Denver, Colo. Draw-bar carrier. No. 928,890; July 20; Sp. p. 4530; Gaz. vol. 144; p. 789.  
 Tomlinson, C. H., Mansfield, Ohio, assignor to Tomlinson Coupler Company, Denver, Colo. Draw-bar carrier. No. 934,375; Sept. 14; Sp. p. 2832; Gaz. vol. 146; p. 473.  
 Tomlinson, C. L., Portland, Oreg. Wheel. No. 926,626; June 29; Sp. p. 7337; Gaz. vol. 143; p. 1294.  
 Tomlinson Coupler Company. (See McWhorter, A. D., assignor.)  
 Tomlinson Coupler Company. (See Tomlinson, C. H., assignor.)  
 Tomlinson, D. W., Jr., Batavia, N. Y., assignor to H. B. Febiger, New Orleans, La. Trigger-movement for self-loading firearms. No. 944,832; Dec. 28; Sp. p. 6046; Gaz. vol. 149; p. 1040.  
 Tomlinson, G. E., Pekin, Ill. Car-coupling. No. 931,097; Aug. 17; Sp. p. 3098; Gaz. vol. 145; p. 543.  
 Tomlinson, G. H. (See Ewen and Tomlinson.)  
 Tomlinson, J. H., London, England. Sight-testing apparatus. No. 926,035; June 22; Sp. p. 6162; Gaz. vol. 143; p. 1064.  
 Tomlinson, R. D., assignor to Allis-Chalmers Company, Milwaukee, Wis. Condenser plant. No. 915,318; Mar. 16; Sp. p. 3433; Gaz. vol. 140; p. 599.  
 Tomlinson, R. D., assignor to Allis-Chalmers Company, Milwaukee, Wis. Condenser. No. 919,265; Apr. 20; Sp. p. 4929; Gaz. vol. 141; p. 826.  
 Tomlinson, R. D., assignor to Allis-Chalmers Company, Milwaukee, Wis. Condenser plant. No. 919,266; Apr. 20; Sp. p. 4930; Gaz. vol. 141; p. 827.  
 Tomlinson, R. D., assignor to Allis-Chalmers Company, Milwaukee, Wis. Steam-condenser. No. 940,648; Nov. 16; Sp. p. 4880; Gaz. vol. 148; p. 812.  
 Tompkins, B. T., assignor of one-third to Chisholm and Moore Manufacturing Co., Cleveland, Ohio. Chain-straightening mechanism. No. 912,208; Feb. 9; Sp. p. 2399; Gaz. vol. 139; p. 414.  
 Tompkins, F., New Dorp, N. Y. Rotary engine. No. 913,927; Mar. 2; Sp. p. 554; Gaz. vol. 140; p. 89.  
 Tompkins, F., New Dorp, N. Y. Rotary engine. No. 916,225; Mar. 23; Sp. p. 5230; Gaz. vol. 140; p. 924.  
 Tompkins, F., New Dorp, N. Y. Propelling and steering apparatus. No. 931,899; Aug. 24; Sp. p. 4810; Gaz. vol. 145; p. 830.  
 Tompkins, F., New Dorp, N. Y. Rotary engine. No. 931,900; Aug. 24; Sp. p. 4813; Gaz. vol. 145; p. 830.  
 Tompkins, J. D., Valatie, N. Y. Pulping and cleaning paper-stock. No. 910,881; Jan. 26; Sp. p. 5005; Gaz. vol. 138; p. 903.  
 Tompkins, M. A., Louisville, Ky. Curtain-draping apparatus. No. 925,853; June 22; Sp. p. 5804; Gaz. vol. 143; p. 1005.  
 Tompkins, V., assignor to Smooth-On Manufacturing Company, Jersey City, N. J. Sheet-packing. No. 920,502; May 4; Sp. p. 820; Gaz. vol. 142; p. 133.  
 Tompkins, W. A., Portland, Oreg. Apparatus for collecting, folding, and wrapping papers. No. 909,712; Jan. 12; Sp. p. 2580; Gaz. vol. 138; p. 457.  
 Tompkins, W. A., Portland, Oreg. Type-writer attachment. No. 938,354; Oct. 26; Sp. p. 5794; Gaz. vol. 147; p. 988.  
 Tomshick, C., New York, N. Y. Electroliter-switch. No. 924,295; June 8; Sp. p. 2622; Gaz. vol. 143; p. 427.  
 Tone, F. J., Niagara Falls, N. Y. Reducing ores. No. 921,183; May 11; Sp. p. 2218; Gaz. vol. 142; p. 390.  
 Tone, F. J., Niagara Falls, N. Y. Electric furnace. No. 932,069; Aug. 24; Sp. p. 5208; Gaz. vol. 145; p. 888.  
 Tone, F. J., Niagara Falls, N. Y. Producing metallic compounds. No. 937,120; Oct. 19; Sp. p. 3147; Gaz. vol. 147; p. 553.  
 Tone, F. J., Niagara Falls, N. Y. Composition of matter for generating heat. No. 939,570; Nov. 9; Sp. p. 2490; Gaz. vol. 148; p. 411.  
 Tone, F. J., Niagara Falls, N. Y. Producing silicon carbide. No. 941,339; Nov. 23; Sp. p. 6363; Gaz. vol. 148; p. 1064.  
 Tone, F. J., assignor to Carborundum Company, Niagara Falls, N. Y. Manufacture of silicon carbide. No. 913,324; Feb. 23; Sp. p. 4755; Gaz. vol. 139; p. 851.  
 Tone, F. J., assignor to Carborundum Company, Niagara Falls, N. Y. Treating aluminum ores. No. 929,517; July 27; Sp. p. 5815; Gaz. vol. 144; p. 1021.  
 Tone, F. J., assignor to Carborundum Company, Niagara Falls, N. Y. Treating aluminum-silicate ores. No. 929,518; July 27; Sp. p. 5816; Gaz. vol. 144; p. 1021.  
 Tone, F. J., assignor to Carborundum Company, Niagara Falls, N. Y. Producing silicon carbide. No. 937,119; Oct. 19; Sp. p. 3146; Gaz. vol. 147; p. 553.  
 Tone, F. J., assignor to Carborundum Company, Niagara Falls, N. Y. Composition of matter for the generation of heat. No. 939,930; Nov. 9; Sp. p. 3262; Gaz. vol. 148; p. 538.  
 Tonini, A., Grand View, Ind. Bottle-strainer. No. 920,791; May 4; Sp. p. 1417; Gaz. vol. 142; p. 228.  
 Tonkinson, H. L., Gable, Okla. Broom-corn header. No. 930,438; Aug. 10; Sp. p. 1642; Gaz. vol. 145; p. 297.  
 Toogood, H. J., assignor to R. Dempster & Sons, Limited, Elland, England. Charging of gas-retorts. No. 944,004; Dec. 21; Sp. p. 4256; Gaz. vol. 149; p. 732.  
 Toogood, H. J., assignor to R. Dempster & Sons, Limited, Elland, England. Lid for gas-retorts. No. 944,005; Dec. 21; Sp. p. 4258; Gaz. vol. 149; p. 732.  
 Toombs, J. M., Jr., Tuxedo Park, Mo. Wheel. No. 925,398; June 15; Sp. p. 4827; Gaz. vol. 143; p. 825.  
 Tope, V. (See McFarland and Tope.)  
 Topf, C. P., Tacoma, Wash. Shoe-fastener. No. 922,976; May 25; Sp. p. 5935; Gaz. vol. 142; p. 1035.  
 Topol, J., Chicago, Ill. Combined burial-casket and vault therefor. No. 925,533; June 22; Sp. p. 5103; Gaz. vol. 143; p. 899.  
 Toporczar, A., New York, N. Y. Instep-supporter. No. 918,101; Apr. 13; Sp. p. 2318; Gaz. vol. 141; p. 416.  
 Topp, T. M., San Francisco, Cal. Ore-feeder. No. 910,097; Jan. 19; Sp. p. 3350; Gaz. vol. 138; p. 616.  
 Topper, J. C. (See Talcott, F. T., assignor.)  
 Topping, A. S., Hart, Mich. Railway-tie. No. 909,713; Jan. 12; Sp. p. 2589; Gaz. vol. 138; p. 457.  
 Topping, M. H., Flat River, Mo. Obstetrical appliance. No. 915,127; Mar. 16; Sp. p. 3068; Gaz. vol. 140; p. 538.  
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- Torbett, J. F., Piney Flats, Tenn. Churn. No. 929,900; Aug. 3; Sp. p. 602; Gaz. vol. 145; p. 94.
- Torchio, P. (See Lawrence and Torchio.)
- Toro, J., *et al.* (See Dibler, C. M., assignor.)
- Toren, H. A., Grand Rapids, Mich. Printing-press. No. 925,399; June 15; Sp. p. 4828; Gaz. vol. 143; p. 825.
- Törnblad, N. P., Gottenborg, Sweden. Book-press for color-printing. No. 922,542; May 25; Sp. p. 5038; Gaz. vol. 142; p. 894.
- Tornwall, P. A., and E. E. Darrow, Houston, Miss. Automatic oiling-pump. No. 937,488; Oct. 19; Sp. p. 3966; Gaz. vol. 147; p. 673.
- Torok, J., Renovo, Pa. Water-gage. No. 928,082; July 13; Sp. p. 2856; Gaz. vol. 144; p. 487.
- Toronto Type Foundry Company Limited. (See Scharf, W. H., assignor.)
- Torrance, P. S., Mooresville, N. C. Railway-tie. No. 937,972; Oct. 26; Sp. p. 4946; Gaz. vol. 147; p. 853.
- Torrence, C. A., assignor to Maplebay Manufacturing Company, Crookston, Minn. Grain-separator. No. 910,973; Jan. 26; Sp. p. 5172; Gaz. vol. 138; p. 932.
- Torreus, J. A., Somerset, Coleraine, Ireland. Electrical ignition apparatus. No. 908,906; Jan. 5; Sp. p. 979; Gaz. vol. 138; p. 156.
- Torrey, C. S., Bellevue, Mich. Cow-stall. No. 943,489; Dec. 14; Sp. p. 3120; Gaz. vol. 149; p. 526.
- Torrey, H. A., assignor to Plume & Atwood Mfg. Co., Waterbury, Conn. Shade-holder for electroliters. No. 932,834; Aug. 31; Sp. p. 6786; Gaz. vol. 145; p. 1164.
- Torris Wold & Company. (See Odquist and Lyche, assignors.)
- Torrison, T. E. (See Anderson, C., assignor.)
- Torroy & Co., J. R. (See Harthan, W. P., assignor.)
- Torsen, K. A., Watertown, N. Y. Automatic pulp-press. No. 910,245; Jan. 19; Sp. p. 3678; Gaz. vol. 138; p. 668.
- Tosi, A. (See Bellini and Tosi.)
- Tossell, R., and J. Ruel, Chicago, Ill. Amusement apparatus. No. 918,797; Apr. 20; Sp. p. 3801; Gaz. vol. 141; p. 675.
- Tostevin, A. P. (See Cottie, J. C., assignor.)
- Tothill, T., Sr., Lockport, N. Y. Seam-dampening machine. No. 913,245; Feb. 23; Sp. p. 4593; Gaz. vol. 139; p. 823.
- Tothill, W. S., Chicago, Ill. Amusement-slide. No. 909,480; Jan. 12; Sp. p. 2117; Gaz. vol. 138; p. 376.
- Totten, C. S., Pittsfield, Mass. Lathe-center. No. 930,440; Aug. 10; Sp. p. 1646; Gaz. vol. 145; p. 298.
- Totten, M., assignor of one-half to A. H. Kirby, Abilene, Tex. Wire-handling tool. No. 932,650; Aug. 31; Sp. p. 6402; Gaz. vol. 145; p. 1105.
- Totten, R. C., Pittsburg, Pa. Protecting buildings from lightning. No. 926,521; June 29; Sp. p. 7132; Gaz. vol. 143; p. 1259.
- Tottle & Co., W. A. (See McMillan, H. P., assignor.)
- Tottle, M. P., Baltimore, Md. Brush. No. 944,833; Dec. 28; Sp. p. 6048; Gaz. vol. 149; p. 1041.
- Touceda, E. A., Albany, N. Y. Antifriction alloy. No. 933,139; Sept. 7; Sp. p. 211; Gaz. vol. 146; p. 36.
- Touceda, E. A., Albany, N. Y. Antifriction alloy. No. 934,637; Sept. 21; Sp. p. 3359; Gaz. vol. 146; p. 585.
- Touchman, S. N., Piqua, Ohio. Toggle-lever flask-hinge. No. 933,401; Sept. 7; Sp. p. 828; Gaz. vol. 146; p. 129.
- Toullerton, G. E., Houston, Tex. Automatic railway-switch. No. 931,660; Aug. 17; Sp. p. 4275; Gaz. vol. 145; p. 730.
- Toupin, A., St. Agathe, Manitoba, Canada. Excavator. No. 940,752; Nov. 23; Sp. p. 5120; Gaz. vol. 148; p. 872.
- Touzinsky, O., Lobositz, Austria-Hungary. Device for drying air, gas, &c. No. 913,325; Feb. 23; Sp. p. 4755; Gaz. vol. 139; p. 851.
- Tower, C. A., Cleveland, Ohio. Mechanical movement. No. 940,753; Nov. 23; Sp. p. 5125; Gaz. vol. 148; p. 873.
- Tower, C. A., assignor to National Malleable Castings Company, Cleveland, Ohio. Draft-rigging. No. 914,089; Mar. 2; Sp. p. 934; Gaz. vol. 140; p. 147.
- Tower, C. A., assignor to National Malleable Castings Company, Cleveland, Ohio. Friction draft-rigging. No. 923,735; June 1; Sp. p. 1361; Gaz. vol. 143; p. 212.
- Tower, C. A., assignor to National Malleable Castings Company, Cleveland, Ohio. Frictional draft-rigging. No. 933,601; Sept. 7; Sp. p. 1315; Gaz. vol. 146; p. 194.
- Tower, C. A., assignor to National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 933,602; Sept. 7; Sp. p. 1317; Gaz. vol. 146; p. 194.
- Tower, C. A., assignor to National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 934,948; Sept. 21; Sp. p. 3966; Gaz. vol. 146; p. 688.
- Tower & Lyon Company. (See Wood, H. E., assignor.)
- Towers, J., Albuquerque, N. Mex. Ter. Attachment for plugs of oil or grease cups. No. 922,211; May 18; Sp. p. 4359; Gaz. vol. 142; p. 758.
- Towers, J. H. (See Blaker and Towers.)
- Towie, A. W., assignor of one-half to P. Wendel and one-half to P. Wendel, trustee, Chicago, Ill. Automobile wind-shield. No. 942,222; Dec. 7; Sp. p. 425; Gaz. vol. 149; p. 65.
- Towie, C. R. (See Webster and Towie.)
- Towie, E. E., Richmond, Ind., assignor to American Seeding Machine Company, Springfield, Ohio. Corn-planter. No. 930,106; Aug. 3; Sp. p. 1022; Gaz. vol. 145; p. 165.
- Towie, H. P., assignor of five-eighths to J. H. McGehee, San Jose, Cal. Faucet and hose coupling. No. 939,931; Nov. 9; Sp. p. 3263; Gaz. vol. 148; p. 538.
- Towie, H. P., assignor of five-eighths to J. H. McGehee, San Jose, Cal. Faucet hose-coupling. No. 939,932; Nov. 9; Sp. p. 3265; Gaz. vol. 148; p. 538.
- Towie, J., Oremont, Ga. Display-stand. No. 933,500; Sept. 7; Sp. p. 1119; Gaz. vol. 146; p. 160.
- Towie, T. S., Stanton, Mich. Acetylene-gas generator. No. 919,091; Apr. 20; Sp. p. 4409; Gaz. vol. 141; p. 770.
- Towie, W. M. (See Henry, D. M., assignor.)
- Towles, F. M. (See Pfeiffer and Towles.)
- Towne, H. C., North Raynham, Mass. Chair and table combined. No. 916,631; Mar. 30; Sp. p. 6050; Gaz. vol. 140; p. 1085.
- Towne, H. R., New York, N. Y., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Night-lock. No. 919,979; Apr. 27; Sp. p. 6446; Gaz. vol. 141; p. 1102.
- Towne, H. R., New York, N. Y., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Padlock. No. 920,691; May 4; Sp. p. 1219; Gaz. vol. 142; p. 196.
- Towne, H. R., New York, N. Y., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Padlock. No. 920,692; May 4; Sp. p. 1220; Gaz. vol. 142; p. 197.
- Towne, J. M., East Orange, N. J., assignor to Safety Car Heating & Lighting Company. Hose-coupling. No. 938,183; Oct. 26; Sp. p. 5421; Gaz. vol. 147; p. 925.
- Towne, J. M., East Orange, and E. E. Allbee, Arlington, N. J., assignors to Safety Car Heating & Lighting Company. Operating mechanism for train-pipe valves. No. 915,907; Mar. 23; Sp. p. 4630; Gaz. vol. 140; p. 821.
- Towne, W. L., West Medford, Mass. Mechanical toy. No. 931,901; Aug. 24; Sp. p. 4816; Gaz. vol. 145; p. 831.
- Townley, C. E., Dryden, N. Y. Pitman connection. No. 918,225; Apr. 13; Sp. p. 2570; Gaz. vol. 141; p. 458.
- Townsend, C. C., assignor of one-half to J. McKewen, New York, N. Y. Sign. No. 926,781; July 6; Sp. p. 145; Gaz. vol. 144; p. 24.
- Townsend, C. E., Billings, Mont. Wrench. No. 943,286; Dec. 14; Sp. p. 2702; Gaz. vol. 149; p. 456.
- Townsend, C. H., Berkeley, Cal. Indicator and advertiser. No. 919,495; Apr. 27; Sp. p. 5478; Gaz. vol. 141; p. 940.
- Townsend, C. P., Light Street, Pa. Ear-corn holder. No. 933,402; Sept. 7; Sp. p. 830; Gaz. vol. 146; p. 129.
- Townsend, F. (See Young and Townsend.)
- Townsend, F., assignor to S. M. Young, New York, N. Y. Electric relay. No. 911,549; Feb. 2; Sp. p. 999; Gaz. vol. 139; p. 174.
- Townsend, F. B., Joliet, Ill. Device for tightening wire bed-springs. No. 936,958; Oct. 12; Sp. p. 2822; Gaz. vol. 147; p. 470.
- Townsend, F. P., Elyria, Ohio, assignor to Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Motor-controller. No. 910,098; Jan. 19; Sp. p. 3352; Gaz. vol. 138; p. 617.
- Townsend, H. C., Petoskey, Mich. Concrete-mixer. No. 933,501; Sept. 7; Sp. p. 1121; Gaz. vol. 146; p. 161.
- Townsend, H. P., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Grooving-machine. No. 916,226; Mar. 23; Sp. p. 5231; Gaz. vol. 140; p. 924.
- Townsend, H. P., assignor to Corbin Cabinet Lock Company, New Britain, Conn. Lock. No. 922,065; May 18; Sp. p. 4057; Gaz. vol. 142; p. 709.
- Townsend, H. P., New Britain, assignor to Hartford Machine Screw Company, Hartford, Conn. Chuck. No. 921,568; May 11; Sp. p. 3016; Gaz. vol. 142; p. 518.
- Townsend, J. J., administrator. (See Young and Townsend, assignors.)
- Townsend, M. L., Potosi, Mo. Railway cross-tie. No. 933,276; Sept. 7; Sp. p. 566; Gaz. vol. 146; p. 87.
- Townsend, M. L., Potosi, Mo. Railway-tie. No. 935,433; Sept. 28; Sp. p. 4937; Gaz. vol. 146; p. 872.
- Townsend, P. G., Hutchinson, Kans. Brooding-coop. No. 931,974; Aug. 24; Sp. p. 4998; Gaz. vol. 145; p. 856.
- Townsend, R. D., Chicago, Ill. Envelop. No. 928,410; July 20; Sp. p. 3562; Gaz. vol. 144; p. 630.
- Townsend, R. V., Riverside, R. I. Necktie-retainer. No. 937,339; Oct. 19; Sp. p. 3632; Gaz. vol. 147; p. 624.
- Townsend, T., Providence, R. I. Device for positioning pins for the combs of combing-machines. No. 910,744; Jan. 26; Sp. p. 4732; Gaz. vol. 138; p. 859.

*Alphabetical list of patentees—Continued.*

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 Townsend, Z. P., Sauquoit, N. Y. String-bean cutter. No. 925,614; June 22; Sp. p. 5269; Gaz. vol. 143; p. 926.  
 Towsley, J. T. (See Felts, O. O., assignor.)  
 Towson, M. S., Cleveland, Ohio. Hub. No. 911,922; Feb. 9; Sp. p. 1747; Gaz. vol. 139; p. 323.  
 Toy Parachute Company. (See Zook, T. L., assignor.)  
 Toy, R. E., Matoka, W. Va. Soap-holder for washboards. No. 923,911; June 8; Sp. p. 1808; Gaz. vol. 143; p. 301.  
 Toye, S., Winnipeg, Manitoba, Canada. Building construction. No. 915,908; Mar. 23; Sp. p. 4632; Gaz. vol. 140; p. 822.  
 Toynbee, C. E. (See Swearer and Toynbee.)  
 Toyoda, S., Shimasaki-Cho, Nagoya, Japan. Arrangement for tension and let-off of warps. No. 917,682; Apr. 6; Sp. p. 1391; Gaz. vol. 141; p. 246.  
 Toyoda, S., Nagoya, Japan. Loom. No. 920,503; May 4; Sp. p. 822; Gaz. vol. 142; p. 133.  
 Trachsler, E., assignor to Maschinenfabrik Rütli vormals Caspar Honegger, Rütli, Switzerland. Double-lift open-shed jacquard-machine. No. 931,975; Aug. 24; Sp. p. 4999; Gaz. vol. 145; p. 856.  
 Trachsler, F., San Francisco, Cal. Means for heating bakers' ovens. No. 919,400; Apr. 27; Sp. p. 5235; Gaz. vol. 141; p. 907.  
 Tracy, B. F. (See Crandall, L. S., assignor.)  
 Tracy, B. F., Barberton, Ohio. Drip-pan. No. 918,396; Apr. 13; Sp. p. 2907; Gaz. vol. 141; p. 513.  
 Tracy, C. W., et al. (See Turck, F. M., assignor.)  
 Tracy, F. W., assignor to one-half to C. McKinley, Chicago, Ill. Apparatus for casting dental plates. No. 926,037; June 22; Sp. p. 6167; Gaz. vol. 143; p. 1064.  
 Tracy, J. T. (See Tracy, J. W. and J. T.)  
 Tracy, J. W. and J. T., Smithland, Ky. Trace-holder. No. 916,063; Mar. 23; Sp. p. 4923; Gaz. vol. 140; p. 872.  
 Trader, J. W., Jr., Sedalia, Mo. Wireless check-row attachment for corn-planters. No. 928,822; July 20; Sp. p. 4382; Gaz. vol. 144; p. 764.  
 Trafford, W. W., New York, N. Y. Seam-cutting device. No. 934,685; Sept. 21; Sp. p. 3242; Gaz. vol. 146; p. 565.  
 Trafton, L. B., Limestone, Me. Combined ticket-holder and theater-seat diagram. No. 916,227; Mar. 23; Sp. p. 5236; Gaz. vol. 140; p. 924.  
 Trahan, J. E. (See Silverman and Trahan.)  
 Trainor, P., New York, N. Y. Water-tube boiler. No. 921,313; May 11; Sp. p. 2495; Gaz. vol. 142; p. 433.  
 Trammell, J. W., and H. H. Hammack, Sumner, Ga. Planter. No. 942,760; Dec. 7; Sp. p. 1501; Gaz. vol. 149; p. 247.  
 Transom Draft Gear Company. (See Bundy and Acker, assignors.)  
 Transom Draft Gear Company. (See Gilman, G. H., assignor.)  
 Transom Draft Gear Company. (See Pfleger, H. M., assignor.)  
 Transue & Williams. (See Bailey, T. F., assignor.)  
 Trantham, H. T. (See Haynes, R. E., assignor.)  
 Trask, G. F. D., Orange, N. J. Hose-rack. No. 941,410; Nov. 30; Sp. p. 6564; Gaz. vol. 148; p. 1113.  
 Trask, W. S., assignor to P. & F. Corbin, New Britain, Conn. Door-knob compensator. No. 922,359; May 18; Sp. p. 4632; Gaz. vol. 142; p. 804.  
 Trask, W. S., assignor to P. & F. Corbin, New Britain, Conn. Compensator for knob-spindles. No. 923,091; May 25; Sp. p. 6175; Gaz. vol. 142; p. 1071.  
 Trattles, M. (See Kay and Trattles.)  
 Traub, L., Kilbourn, Wis. Land-pulverizer. No. 943,490; Dec. 14; Sp. p. 3122; Gaz. vol. 149; p. 527.  
 Traubenberg, H. R. von, Berlin, Germany, assignor to Amalgamated Radio-Telegraph Company, Limited, London, England. Radio-telegraphy. No. 912,209; Feb. 9; Sp. p. 2401; Gaz. vol. 139; p. 414.  
 Trautmann, B. (See Trautmann, M., assignor.)  
 Trautmann, M., assignor to B. Trautmann, Dresden, Germany. Electric burglar-alarm. No. 934,108; Sept. 14; Sp. p. 2327; Gaz. vol. 146; p. 382.  
 Trautner, N. W., assignor to two-fifths to H. C. Kohn, Red Wing, Minn. Quickly-adjustable bolt. No. 939,933; Nov. 9; Sp. p. 3266; Gaz. vol. 148; p. 539.  
 Traver, F. A., Milwaukee, Wis. Garment-clasp. No. 911,783; Feb. 9; Sp. p. 1486; Gaz. vol. 139; p. 278.  
 Traver, H. G., assignor to J. W. Ely, New York, N. Y. Go-cart. No. 930,326; Aug. 3; Sp. p. 1415; Gaz. vol. 145; p. 235.  
 Traver, W. A., Weedsport, N. Y. Road-drag. No. 909,968; Jan. 19; Sp. p. 3102; Gaz. vol. 138; p. 573.  
 Travers, C. J., Chicago, Ill. Chair. No. 940,907; Nov. 23; Sp. p. 5444; Gaz. vol. 148; p. 923.  
 Traverse City Chair Co. (See Grellick, C. L., assignor.)  
 Travilla, J. C., St. Louis, Mo. Pavement and making the same. No. 936,493; Oct. 12; Sp. p. 1895; Gaz. vol. 147; p. 313.  
 Travis, C. C., Chicago, Ill. Vending-machine. No. 910,246; Jan. 19; Sp. p. 3689; Gaz. vol. 138; p. 659.  
 Travis, C. C., Chicago, Ill. Machine for shaping and dipping light-mantles. No. 916,506; Mar. 30; Sp. p. 5801; Gaz. vol. 140; p. 1044.  
 Travis, F. E., Carlville, Ill. Draft-equalizer. No. 935,434; Sept. 28; Sp. p. 4940; Gaz. vol. 146; p. 872.  
 Travis, J. M. (See Fitzgibbon and Travis.)  
 Travis, J. M. (See Garman and Travis.)  
 Travis, R. G. (See Seaton and Travis.)  
 Travnick, A., Munch, N. D. Riding-harrow attachment. No. 929,052; July 27; Sp. p. 4856; Gaz. vol. 144; p. 868.  
 Traxler, D., assignor to R. Traxler, Detroit, Mich. Safety-pocket. No. 928,920; July 20; Sp. p. 4588; Gaz. vol. 144; p. 799.  
 Traxler, G. W., Hammond, Ill. Gate. No. 925,668; June 22; Sp. p. 5383; Gaz. vol. 143; p. 942.  
 Traxler, R. (See Traxler, D., assignor.)  
 Traylor, J. A., Denver, Colo. Rock-drill. No. 913,928; Mar. 2; Sp. p. 556; Gaz. vol. 140; p. 90.  
 Traylor, J. A., assignor to John A. Traylor Machinery Company, Denver, Colo. Rock-drilling engine. No. 909,259; Jan. 12; Sp. p. 1687; Gaz. vol. 138; p. 304.  
 Traylor, R. N. (See Wise, J. A., assignor.)  
 Traylor, S. W., New York, N. Y. Ore-lig. No. 915,508; Mar. 16; Sp. p. 3805; Gaz. vol. 140; p. 661.  
 Treacy, L. A., Philadelphia, Pa. Base-ball glove. No. 916,064; Mar. 23; Sp. p. 4925; Gaz. vol. 140; p. 873.  
 Treadgold, G. H., Port Huron, Mich. Wheel. No. 937,973; Oct. 26; Sp. p. 4947; Gaz. vol. 147; p. 853.  
 Treadwell, M. H., New York, N. Y. Ladle. No. 915,250; Mar. 16; Sp. p. 3305; Gaz. vol. 140; p. 578.  
 Treadwell, M. H., New York, N. Y., and C. F. Astrom, Orange, N. J., assignors to Stoeber Foundry & Manufacturing Company, Lebanon, Pa. Threading-die. No. 944,584; Dec. 28; Sp. p. 5518; Gaz. vol. 149; p. 957.  
 Treat, A. J., Perry, Ohio. Ironing-board attachment. No. 920,693; May 4; Sp. p. 1222; Gaz. vol. 142; p. 693.  
 Treat, C. A. (See May and Treat.)  
 Treat, C. H. (See Sweeney, M. L., assignor.)  
 Treat, F. H., Cleveland, Ohio. Explosive-engine. No. 938,401; Oct. 26; Sp. p. 5892; Gaz. vol. 147; p. 1000.  
 Treber, J. A., and B. Simon, Deadwood, S. D. Catamenial bandage. No. 909,349; Jan. 12; Sp. p. 1864; Gaz. vol. 138; p. 334.  
 Trebilcock, B., Gladstone, N. J. Fence. No. 916,228; Mar. 23; Sp. p. 5237; Gaz. vol. 140; p. 925.  
 Tredup, C. T., Godesberg, Germany. Obtaining goffering effects on yarns, tissues, or the like. No. 918,397; Apr. 13; Sp. p. 2908; Gaz. vol. 141; p. 513.  
 Tredway, C. G. (See Long, W. R., assignor.)  
 Tredway, J. F., et al. (See Shaw, F. E., assignor.)  
 Tree, D. H., Cartersville, Iowa. Corn-husker. No. 943,051; Dec. 14; Sp. p. 2225; Gaz. vol. 149; p. 378.  
 Trederell, J. F. (See Kelly and Trederell.)  
 Treese, A. L., Jennings, Okla. Cotton-cleaner. No. 909,714; Jan. 12; Sp. p. 2591; Gaz. vol. 138; p. 458.  
 Trefethen, C. G., Providence, R. I., assignor to Atlas Machine Tool Company. Micrometer-feed for grinding-machines. No. 915,128; Mar. 16; Sp. p. 3069; Gaz. vol. 140; p. 538.  
 Trefethen, C. G., Providence, R. I., assignor to Atlas Machine Tool Company. Grinding-machine. No. 923,464; June 1; Sp. p. 791; Gaz. vol. 143; p. 118.  
 Tregoning, A., Los Angeles, Cal. Ore, cement, and general pulverizing mill. No. 913,176; Feb. 23; Sp. p. 4438; Gaz. vol. 139; p. 800.  
 Tregoning, E., Attleboro, Mass. Rosette. No. 922,977; May 25; Sp. p. 5937; Gaz. vol. 142; p. 1035.  
 Tregoning Electric Manufacturing Company. (See Tregoning, W. C., assignor.)  
 Tregoning, W. C., Cleveland, Ohio. Socket for incandescent lamps. No. 918,102; Apr. 13; Sp. p. 2319; Gaz. vol. 141; p. 416.  
 Tregoning, W. C., Hackensack, N. J., assignor to Tregoning Electric Manufacturing Company, Cleveland, Ohio. Terminal-connector. No. 909,481; Jan. 12; Sp. p. 2119; Gaz. vol. 138; p. 376.  
 Treiber, T. R., assignor to Kansas City Billiard Table Manufacturing Company, Kansas City, Mo. Caster for portable tables. No. 934,480; Sept. 21; Sp. p. 3048; Gaz. vol. 146; p. 531.  
 Treichel, F. C. D. (See Kerndt, A. B., assignor.)  
 Trelschman, F., Wadena, Minn. Folding metal box or case. No. 938,916; Nov. 2; Sp. p. 1025; Gaz. vol. 148; p. 162.  
 Trelschman, F., and G. Ringstad, Wadena, Minn. Flour-duster. No. 943,204; Dec. 14; Sp. p. 2520; Gaz. vol. 149; p. 427.  
 Trejo, G., Mexico, Mexico. Ribbon-positioning device for type-writers. No. 926,036; June 22; Sp. p. 6165; Gaz. vol. 143; p. 1064.



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- Trejo, G., Mexico, Mexico. Carriage-return and line-spacing mechanism for type-writers. No. 938,801; Nov. 2; Sp. p. 748; Gaz. vol. 148; p. 121.
- Trekofski, J., Irvine, Alberta, Canada. Combined hay lifter and stacker. No. 926,222; June 29; Sp. p. 6586; Gaz. vol. 143; p. 1163.
- Tremain, C. W., Chicago, Ill. Reciprocating electric motor. No. 920,222; May 4; Sp. p. 265; Gaz. vol. 142; p. 42.
- Tremblay, U., St. Fulgence, Quebec, Canada. Shifting eccentrics. No. 935,708; Oct. 5; Sp. p. 185; Gaz. vol. 147; p. 29.
- Trembour, M., Birmingham, Ala., assignor to Putnam Development Company. Manufacturing cement. No. 932,917; Aug. 31; Sp. p. 6929; Gaz. vol. 145; p. 1191.
- Trembour, M., Harzburg, Germany, assignor to Putnam Development Company. Manufacturing cement. No. 935,617; Sept. 28; Sp. p. 5328; Gaz. vol. 146; p. 935.
- Trempe, W. J., East Ryegate, Vt. Automatic felt-tightener for paper-making machines. No. 934,857; Sept. 21; Sp. p. 3785; Gaz. vol. 146; p. 657.
- Trenckmann, B., Schöneberg, near Berlin, Germany, assignor to J. Schmid, Astoria, N. Y. Manufacture of parchment-like skin. No. 915,638; Mar. 16; Sp. p. 4095; Gaz. vol. 140; p. 707.
- Trenkamp Stove & Manufacturing Company. (See Geurink, B. A., assignor.)
- Trent, L. C., San Francisco, Cal. Bearing. No. 937,974; Oct. 26; Sp. p. 4949; Gaz. vol. 147; p. 853.
- Trent, S. V., Salt Lake City, Utah. Cut-off valve for centrifugal pumps. No. 921,916; May 18; Sp. p. 3756; Gaz. vol. 142; p. 661.
- Trenton Potteries Company. (See Podmore, W., assignor.)
- Trenton Potteries Company. (See Stover, E. C., assignor.)
- Trepanier, G. H., Iron Mountain, Mich. Doughnut-drainer. No. 923,465; June 1; Sp. p. 793; Gaz. vol. 143; p. 118.
- Trescher, E. B., Boston, Mass. Rotary engine. No. 919,496; Apr. 27; Sp. p. 5480; Gaz. vol. 141; p. 941.
- Trescott, C. B., San Francisco, Cal., assignor to S. Elmore, Astoria, Oreg. Cooking. No. 908,907; Jan. 5; Sp. p. 981; Gaz. vol. 138; p. 156.
- Trescott, C. B., San Francisco, Cal., assignor to S. Elmore, Astoria, Oreg. Cooking device. No. 934,858; Sept. 21; Sp. p. 3786; Gaz. vol. 146; p. 657.
- Trestman, L., New York, N. Y. Coat-hanger. No. 932,357; Aug. 24; Sp. p. 5762; Gaz. vol. 145; p. 984.
- Treter, A. F., Toledo, Ohio. Anticreeping device for rails. No. 919,092; Apr. 20; Sp. p. 4411; Gaz. vol. 141; p. 771.
- Treu, J., and K. Schaefer, New York, N. Y. Window-guard. No. 944,834; Dec. 28; Sp. p. 6050; Gaz. vol. 149; p. 1041.
- Trevor, A. W. (See Galloway and Trevor.)
- Trevor, F. N., assignor to Trevor Manufacturing Company, Lockport, N. Y. Sawing-machine. No. 939,760; Nov. 9; Sp. p. 2910; Gaz. vol. 148; p. 478.
- Trevor, H. E., New York, N. Y. Bottle or can locking device. No. 934,481; Sept. 21; Sp. p. 3049; Gaz. vol. 146; p. 532.
- Trevor Manufacturing Company. (See Trevor, F. N., assignor.)
- Trehwella, B. (See Trehwella, W., assignor.)
- Trehwella, C. E., and E. D. Holley, Forestville, assignors to American Silver Company, Bristol, Conn. Electric heater. No. 929,901; Aug. 3; Sp. p. 604; Gaz. vol. 145; p. 95.
- Trehwella, W., assignor to himself and B. Trehwella, Trentham, Australia. Pawl-and-ratchet mechanism. No. 928,892; July 20; Sp. p. 4532; Gaz. vol. 144; p. 789.
- Trehwella, W., assignor to himself and B. Trehwella, Trentham, Victoria, Australia. Double-pinion toothed gear-train. No. 940,091; Nov. 16; Sp. p. 3646; Gaz. vol. 148; p. 622.
- Tribbe, F. A., Ironton, Mo. Trolley-harp. No. 921,314; May 11; Sp. p. 2497; Gaz. vol. 142; p. 434.
- Tribble, A. L., Malden, Mass. Mop. No. 932,070; Aug. 24; Sp. p. 5209; Gaz. vol. 145; p. 889.
- Tribe, J., assignor to Allis-Chalmers Company, Milwaukee, Wis. Unloading device. No. 915,319; Mar. 16; Sp. p. 3434; Gaz. vol. 140; p. 599.
- Tribe, J., assignor to Allis-Chalmers Company, Milwaukee, Wis. Unloading device. No. 923,607; June 1; Sp. p. 1117; Gaz. vol. 143; p. 170.
- Tribe, J., assignor to Allis-Chalmers Company, Milwaukee, Wis. Unloading device. No. 923,608; June 1; Sp. p. 1118; Gaz. vol. 143; p. 170.
- Tribune Trap & Target Company. (See Lippold and Lord, assignors.)
- Tribur, J. M., Maddock, N. D. Stovepipe-damper. No. 920,694; May 4; Sp. p. 1223; Gaz. vol. 142; p. 197.
- Trice, B. P., assignor to one-fourth to A. E. Anderson, Clarksville, Tenn. Vehicle-brake. No. 933,680; Sept. 7; Sp. p. 1461; Gaz. vol. 146; p. 220.
- Trice, R. H. (See Trice, W. E. and R. H.)
- Trice, R. J., Eufaula, Okla. Music-leaf turner. No. 942,949; Dec. 14; Sp. p. 1967; Gaz. vol. 149; p. 342.
- Trice, W. E. and R. H., Lebanon, Tenn. Cultivator. No. 915,509; Mar. 16; Sp. p. 3806; Gaz. vol. 140; p. 662.
- Trickey, B., and W. T. Cain, assignors to "Elejutor" Limited, London, England. Truck or carriage for use in ship-building. No. 934,949; Sept. 21; Sp. p. 3967; Gaz. vol. 146; p. 689.
- Trier, F., Westminster, London, England. Tool and apparatus for dressing, turning, and shaping stone, emery-wheels, and the like. No. 908,908; Jan. 5; Sp. p. 983; Gaz. vol. 138; p. 157.
- Trigalet, W. D., Mamaroneck, N. Y. Vehicle-wheel. No. 938,184; Oct. 26; Sp. p. 5423; Gaz. vol. 147; p. 925.
- Triggs, J. M., Huntington, Ind. Window-protector. No. 916,803; Mar. 30; Sp. p. 6351; Gaz. vol. 140; p. 1135.
- Trill, O. (See Feistel, A. G., assignor.)
- Trillon, J. B., assignor to himself and La Societe Electrochimique du Giffre, St. Jeoire, France. Electric furnace. No. 932,835; Aug. 31; Sp. p. 6788; Gaz. vol. 145; p. 1164.
- Trimble, B., Providence, R. I. Picker mechanism for looms. No. 933,403; Sept. 7; Sp. p. 831; Gaz. vol. 146; p. 129.
- Trimble, H. J., Coney Island, N. Y. Salt-cellar. No. 922,978; May 25; Sp. p. 5938; Gaz. vol. 142; p. 1035.
- Trimble, M., Columbus, Kans. Book-holder. No. 916,901; Mar. 30; Sp. p. 6542; Gaz. vol. 140; p. 1167.
- Trimbur, H. T., Pittsburg, Pa. Toy. No. 926,784; July 6; Sp. p. 151; Gaz. vol. 144; p. 25.
- Trimoit Manufacturing Company. (See Childs, E., assignor.)
- Trinks, F., Brunswick, Germany. Calculating-machine. No. 928,083; July 13; Sp. p. 2857; Gaz. vol. 144; p. 487.
- Trinks, F., Brunswick, Germany. Calculating-machine. No. 935,565; Sept. 28; Sp. p. 5226; Gaz. vol. 146; p. 917.
- Triple Sign Company. (See Heinemann, T. P., assignor.)
- Triplex Roll Company. (See Elspass, J. H., assignor.)
- Tripmacher, R., Schweidnitz, Germany. Process relating to refractory substances. No. 930,575; Aug. 10; Sp. p. 1960; Gaz. vol. 145; p. 345.
- Tripp, A. E., Indianapolis, Ind. Rotary pump. No. 934,859; Sept. 21; Sp. p. 3787; Gaz. vol. 146; p. 657.
- Tripp, C. A., *et al.* (See Dodson, J. H., assignor.)
- Tripp, C. K., Lynn, Mass., assignor to General Electric Company. Friction-clutch. No. 919,401; Apr. 27; Sp. p. 5236; Gaz. vol. 141; p. 907.
- Tripp, H., Honey Grove, Tex. Curtain-roller. No. 936,387; Oct. 12; Sp. p. 1644; Gaz. vol. 147; p. 278.
- Tripp, N., Grand Rapids, Mich. Cultivator. No. 934,238; Sept. 14; Sp. p. 2581; Gaz. vol. 146; p. 427.
- Tripp, T. N., trustee. (See Melnicke, A. M., assignor.)
- Tripp, T. N., trustee. (See Noyes, B. J., assignor.)
- Trippensee, F. J. and W. F., Detroit, Mich. Planetarium. No. 937,892; Oct. 26; Sp. p. 4780; Gaz. vol. 147; p. 826.
- Trippensee, W. F. (See Trippensee, F. J. and W. F.)
- Trist, A. R., St. Albans, assignor to Trist Piano Player Limited, London, England. Electropneumatic piano-player. No. 941,432; Nov. 30; Sp. p. 6602; Gaz. vol. 148; p. 1119.
- Trist, A. R., St. Albans, assignor to Trist Piano Player Limited, London, England. Music-record sheet for automatic piano-playing mechanism and the like. No. 941,433; Nov. 30; Sp. p. 6603; Gaz. vol. 148; p. 1119.
- Trist Piano Player Limited. (See Trist, A. R., assignor.)
- Tritle, J. F., Schenectady, N. Y., assignor to General Electric Company. System of motor control. No. 917,189; Apr. 6; Sp. p. 462; Gaz. vol. 141; p. 81.
- Tritle, J. F., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 917,190; Apr. 6; Sp. p. 464; Gaz. vol. 141; p. 82.
- Tritle, J. F., Schenectady, N. Y., assignor to General Electric Company. Selective A.C.-D.C. system. No. 935,069; Sept. 28; Sp. p. 4220; Gaz. vol. 146; p. 755.
- Tritle, J. F., Schenectady, N. Y., assignor to General Electric Company. Selective A.C.-D.C. system. No. 935,070; Sept. 28; Sp. p. 4222; Gaz. vol. 146; p. 755.
- Triumph Automobile Tire Company. (See Keyes, H. E., assignor.)
- Triumph Electric Company. (See Reno, C. S., assignor.)
- Triumph Voting Machine Company. (See Abbott, C. C., assignor.)
- Trivelli, A. P. H., Scheveningen, Netherlands. Obtaining radio-active bodies from uranium or thorium, &c. No. 917,191; Apr. 6; Sp. p. 468; Gaz. vol. 141; p. 82.
- Triviss, J. M., assignor to one-third to C. A. Cahuff and one-third to R. V. M. Bechtel, Philadelphia, Pa. Film-reversing mechanism. No. 931,813; Aug. 24; Sp. p. 4640; Gaz. vol. 145; p. 803.
- Troche, W. (See Goehring and Troche.)
- Troegeler, H., Kirkwood, Mo. Bucket. No. 909,715; Jan. 12; Sp. p. 2593; Gaz. vol. 138; p. 458.
- Troemner, C. E. (See Dryden, W. W., assignor.)
- Troemner, C. E. (See Ruhland, A., assignor.)

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- Troike, E., assignor of one-fourth to P. Troike, Sandusky, Ohio. Magneto-electric machine. No. 926,368; June 29; Sp. p. 6866; Gaz. vol. 143; p. 1208.
- Troike, E., assignor of one-fourth to P. Troike, Sandusky, Ohio. Hydrocarbon-engine. No. 932,918; Aug. 31; Sp. p. 6930; Gaz. vol. 145; p. 1191.
- Troike, E., assignor of one-fourth to P. Troike, Sandusky, Ohio. Safety appliance for elevators. No. 943,850; Dec. 21; Sp. p. 3909; Gaz. vol. 149; p. 680.
- Troike, P. (See Troike, E., assignor.)
- Trombley, E., *et al.* (See Villeneuve, A., assignor.)
- Trommald, E. A., and A. von Boecklin, Tacoma, Wash. Manifold-order holder. No. 910,099; Jan. 19; Sp. p. 3357; Gaz. vol. 138; p. 617.
- Trommlitz, G. W. (See Way, W. M., assignor.)
- Troon, C. L., Pomeroy, Iowa. Car-door fastener. No. 916,804; Mar. 30; Sp. p. 6353; Gaz. vol. 140; p. 1135.
- Tropeano, E. (See Albertoni and Tropeano.)
- Tropin, H., New York, N. Y. Jewelry. No. 922,212; May 18; Sp. p. 4359; Gaz. vol. 142; p. 758.
- Trosiener, F., Cologne, Germany. Machine for bending pipes. No. 932,191; Aug. 24; Sp. p. 5458; Gaz. vol. 145; p. 929.
- Trosiener, F., Dusseldorf, Germany. Contrivance for saturating liquids with gas. No. 942,115; Dec. 7; Sp. p. 188; Gaz. vol. 149; p. 28.
- Trost, F., Dunkerton, Iowa. Support for wagon-tongues. No. 910,745; Jan. 26; Sp. p. 4734; Gaz. vol. 138; p. 860.
- Trost, H., Cohoes, N. Y. Sectional or unit merchandise and book case. No. 934,239; Sept. 14; Sp. p. 2582; Gaz. vol. 146; p. 427.
- Trott, R. S., Denver, Colo. Gasoline-operating rock-drilling engine. No. 915,320; Mar. 16; Sp. p. 3435; Gaz. vol. 140; p. 599.
- Trotter, J., Sevilla, Spain. Bundle-carrier. No. 910,746; Jan. 26; Sp. p. 4735; Gaz. vol. 138; p. 860.
- Trotter, J. R., Aurora, Iowa. Riding attachment for harrows. No. 912,048; Feb. 9; Sp. p. 2113; Gaz. vol. 139; p. 364.
- Trotter, T. W., Sault Ste. Marie, Ontario, Canada. Adjustable suspension-cord for electric lamps. No. 938,802; Nov. 2; Sp. p. 755; Gaz. vol. 148; p. 122.
- Trotti, L. S. (See Jefcoat, O. C., assignor.)
- Trottier, G., Montreal, Quebec, Canada. Car fender and brake. No. 910,100; Jan. 19; Sp. p. 3359; Gaz. vol. 138; p. 617.
- Trouche, G., Puteaux, France. Motor more especially applicable for driving barges, wherries, flatboats, and the like. No. 941,827; Nov. 30; Sp. p. 7447; Gaz. vol. 148; p. 1252.
- Trounstein, J., *et al.* (See Schoettl, J., assignor.)
- Trounstein, L. J., assignor to Atlanta Paper Company, Atlanta, Ga. Marked paper. No. 936,959; Oct. 12; Sp. p. 2823; Gaz. vol. 147; p. 470.
- Troup, B. F., Monroe, Iowa. Mail-bag catcher and deliverer. No. 920,695; May 4; Sp. p. 1224; Gaz. vol. 142; p. 197.
- Troup, B. F., Monroe, Iowa. Mail-bag deliverer. No. 936,189; Oct. 5; Sp. p. 1234; Gaz. vol. 147; p. 180.
- Trou, H. F., Elizabeth, N. J. Puzzle. No. 911,461; Feb. 2; Sp. p. 832; Gaz. vol. 139; p. 146.
- Trout, W. (See Purple Beach and Trout.)
- Trout, W. H., Milwaukee, Wis. Chain. No. 932,919; Aug. 31; Sp. p. 6934; Gaz. vol. 145; p. 1191.
- Trouman, E. D., Alliance, assignor to S. S. Kurtz, Canton, Ohio. Credit-cabinet. (Reissue.) No. 12,942; Apr. 13; Sp. p. 3115; Gaz. vol. 141; p. 546.
- Trowbridge, W. W., and C. H. Wheelock, Newton, Mass. Razor-blade stropper. No. 940,412; Nov. 16; Sp. p. 4387; Gaz. vol. 148; p. 734.
- Troxell, A. P., Breckenridge, Ill. Sieve-hanger. No. 924,296; June 8; Sp. p. 2624; Gaz. vol. 143; p. 427.
- Troxell, M. G., Sunbury, Pa. Fruit-cutter. No. 921,917; May 18; Sp. p. 3757; Gaz. vol. 142; p. 662.
- Troy Carriage Sun Shade Company. (See Dillingham, F. A., assignor.)
- Troy Carriage Sun Shade Company. (See Johnston, H. L., assignor.)
- Troy Laundry Machinery Company. (See Bartholomew, W., assignor.)
- Troy Laundry Machinery Company. (See Wilcox and Bartholomew, assignors.)
- Troy, M. O., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution. No. 921,918; May 18; Sp. p. 3759; Gaz. vol. 142; p. 662.
- Troy Malleable Iron Co. (See Veghte, A., assignor.)
- Troy Wagon Works Company. (See Eccord, J. F., assignor.)
- Troyer, J. E., Jr. (See Wise, Troyer, and Smisor.)
- Troxer, W. N., administrator. (See Greer, W. N.)
- Trudgeon, J. H. (See Cranwell, Allan, and Trudgeon.)
- True, G. A., assignor of one-half to Northern Engineering Works, Detroit, Mich. Turn-table. No. 943,491; Dec. 14; Sp. p. 3124; Gaz. vol. 149; p. 527.
- True, G. H., East Oakland, Cal. School-desk and like attachment. No. 929,519; July 27; Sp. p. 5818; Gaz. vol. 144; p. 1022.
- True, I. J., Providence, R. I., deceased; M. S. J. True, administratrix. Filter or strainer. No. 926,038; June 22; Sp. p. 6169; Gaz. vol. 143; p. 1065.
- True, M. S. J., administratrix. (See True, I. J.)
- True, R. F., *et al.* (See Keith, G. P., assignor.)
- True, W., assignor to W. H. Skilling, Fairfield, Nebr. Fifth-wheel. No. 937,196; Oct. 19; Sp. p. 3320; Gaz. vol. 147; p. 577.
- Trueblood, J. C. (See Wehrman and Trueblood.)
- Truesdale, H. A., Conneaut, Ohio. Seal and spout for cans and other receptacles. No. 942,847; Dec. 7; Sp. p. 1699; Gaz. vol. 149; p. 275.
- Truesdale, H. L., Somerville, Mass. Rheostat. No. 944,060; Dec. 21; Sp. p. 4360; Gaz. vol. 149; p. 751.
- Truesdale, A. E., Pittsfield, Mass. Kiln. No. 930,506; Aug. 10; Sp. p. 1779; Gaz. vol. 145; p. 320.
- Truesdell, G., Washington, D. C. Bottle-washing apparatus. No. 910,882; Jan. 26; Sp. p. 5011; Gaz. vol. 138; p. 903.
- Truitt, O. R. (See Carey, C. W., assignor.)
- Truitt, W. T., New York, N. Y. Hat-holder. No. 939,352; Nov. 9; Sp. p. 1994; Gaz. vol. 148; p. 338.
- Truman, J., Hanover, N. H. Cooking apparatus. No. 931,814; Aug. 24; Sp. p. 4642; Gaz. vol. 145; p. 804.
- Trumbull Electric Manufacturing Company. (See Clark, C. A., assignor.)
- Trumbull Electric Manufacturing Company. (See Fisher, H. A., assignor.)
- Trumbull Electric Manufacturing Company. (See Trumbull, H., assignor.)
- Trumbull Electric Manufacturing Company. (See Wheeler, F. T., assignor.)
- Trumbull, H., assignor to Trumbull Electric Manufacturing Company, Plainville, Conn. Wire attachment for electrical devices. No. 922,360; May 18; Sp. p. 4633; Gaz. vol. 142; p. 805.
- Trumbull, S. E., *et al.* (See Austin and Cooper, assignors.)
- Trumbull, S. E., *et al.* (See Cooper and Austin, assignors.)
- Trump, E. N., Syracuse, assignor to Solvay Process Company, Solvay, N. Y. Fuel-feed for gas-producers. No. 925,400; June 15; Sp. p. 4829; Gaz. vol. 143; p. 826.
- Trump, F., Springfield, Ohio. Water-wheel. No. 917,192; Apr. 6; Sp. p. 470; Gaz. vol. 141; p. 82.
- Trümpler, W. E., Zurich, Switzerland. Electrical heating apparatus. No. 919,402; Apr. 20; Sp. p. 5237; Gaz. vol. 141; p. 907.
- Trundle, A. F., Perryville, Ark. Automatic magazine-pistol. No. 908,521; Jan. 5; Sp. p. 184; Gaz. vol. 138; p. 32.
- Truscott, G. (See Goldstein, M., assignor.)
- Trussed Concrete Steel Company. (See Kahn, J., assignor.)
- Trussed Concrete Steel Company. (See Kane, T. H., assignor.)
- Trussed Concrete Steel Company. (See Kahn and Kane, assignors.)
- Trussell, C. D., New York, N. Y. Safety-pocket. No. 924,017; June 8; Sp. p. 2015; Gaz. vol. 143; p. 334.
- Trussell, C. D., assignor to Trussell Manufacturing Company, New York, N. Y. Temporary binder. No. 919,497; Apr. 27; Sp. p. 5482; Gaz. vol. 141; p. 941.
- Trussell, C. D., assignor to Trussell Manufacturing Company, New York, N. Y. Temporary binder. No. 934,770; Sept. 21; Sp. p. 3606; Gaz. vol. 146; p. 629.
- Trussell Hay Harvesting Machinery Company. (See Trussell, W. C., assignor.)
- Trussell Manufacturing Company. (See Trussell, C. D., assignor.)
- Trussell, W. C., assignor to Trussell Hay Harvesting Machinery Company, Boston, Mass. Hay rake and cocker. No. 924,297; June 8; Sp. p. 2625; Gaz. vol. 143; p. 427.
- Trust and Deposit Company of Onondaga, trustee. (See Bundy, W. H., assignor.)
- Trust Company of North America, trustee. (See Cox, W., assignor.)
- Truston, S., Massillon, Ohio. Nut-lock. No. 922,543; May 25; Sp. p. 5039; Gaz. vol. 142; p. 895.
- Truxal, B. S., Chattanooga, Tenn. Reversing-gearing. No. 929,520; July 27; Sp. p. 5819; Gaz. vol. 144; p. 1022.
- Truxal, B. S., Chattanooga, Tenn. Clutch mechanism. No. 929,521; July 27; Sp. p. 5821; Gaz. vol. 144; p. 1022.
- Truxal, N. W., Boston, Mass. Operating mechanism for circuit-controllers. No. 914,535; Mar. 9; Sp. p. 1859; Gaz. vol. 140; p. 316.
- Truxler, L. X., Vernon, British Columbia, Canada. Hand-truck. No. 938,917; Nov. 2; Sp. p. 1027; Gaz. vol. 148; p. 163.
- Tschantz, W. H., assignor to Cyclone Drill Company, Orrville, Ohio. Clutch and mechanism therefor. No. 918,610; Apr. 20; Sp. p. 3375; Gaz. vol. 141; p. 611.



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- Tschimperle, M., Victoria, Minn. Explosive-engine. No. 919,980; Apr. 27; Sp. p. 6450; Gaz. vol. 141; p. 1102.
- Tschinkel, A. (See Kelly and Tschinkel.)
- Tschirley, J. H., Armour, S. D. Gate-fastener. No. 912,333; Feb. 16; Sp. p. 2709; Gaz. vol. 139; p. 494.
- Tsorones, C., Minneapolis, Minn. Hair-tonic. No. 941,434; Nov. 30; Sp. p. 6604; Gaz. vol. 148; p. 1119.
- Tsuiji, K., Takaoka, Iyama, Japan. Drier. No. 940,908; Nov. 23; Sp. p. 5446; Gaz. vol. 148; p. 923.
- Tubb, T. J., and L. M. Sheldon, McGirk, Tex. Vehicle brake-shoe and holder. No. 910,101; Jan. 19; Sp. p. 3362; Gaz. vol. 138; p. 618.
- Tubbs, T. A., Treadwell, Alaska. Butcher's saw. No. 909,716; Jan. 12; Sp. p. 2594; Gaz. vol. 138; p. 458.
- Tubbs, T. A., Treadwell, Alaska. Dental floss-holder. No. 922,824; May 25; Sp. p. 5623; Gaz. vol. 142; p. 986.
- Tubbs, T. A., Treadwell, Alaska. Ash-guard for cigars. No. 930,576; Aug. 10; Sp. p. 1961; Gaz. vol. 145; p. 345.
- Tubular Heating & Ventilating Company. (See Knauss, C. C., assignor.)
- Tubular Rivet & Stud Company. (See Bray, W. C., assignor.)
- Tuch, C. C., Honolulu, Hawaii. Power-generator. No. 938,918; Nov. 2; Sp. p. 1029; Gaz. vol. 148; p. 163.
- Tucker, A., Mineral Point, Wis., assignor to New Jersey Zinc Company, Newark, N. J. Raking mechanism for furnaces. No. 931,815; Aug. 24; Sp. p. 4645; Gaz. vol. 145; p. 804.
- Tucker, B. W. (See Griffin and Tucker.)
- Tucker, B. W., Newark, N. J., assignor to American Tobacco Company, New York, N. Y. Packaging-machine. No. 939,353; Nov. 9; Sp. p. 1996; Gaz. vol. 148; p. 339.
- Tucker, C. A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-breaker. No. 934,482; Sept. 21; Sp. p. 3051; Gaz. vol. 146; p. 532.
- Tucker, C. A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-circuit controller and interrupter. No. 936,584; Oct. 12; Sp. p. 2077; Gaz. vol. 147; p. 344.
- Tucker, C. G., assignor to J. H. Day Company, Cincinnati, Ohio. Machine for cutting crackers. No. 909,967; Jan. 19; Sp. p. 3104; Gaz. vol. 138; p. 574.
- Tucker, C. G., assignor to J. H. Day Company, Cincinnati, Ohio. Cake-machine. No. 911,851; Feb. 9; Sp. p. 1612; Gaz. vol. 139; p. 299.
- Tucker, C. G., assignor to J. H. Day Company, Cincinnati, Ohio. Reel-oven. No. 915,810; Mar. 23; Sp. p. 4446; Gaz. vol. 140; p. 700.
- Tucker, C. J., Sennett, N. Y. Collapsible vehicle-top. No. 936,960; Oct. 12; Sp. p. 2824; Gaz. vol. 147; p. 470.
- Tucker & Dorsey Manufacturing Company. (See Dorsey, R. L., assignor.)
- Tucker Feeder Company. (See Tucker, J. E., assignor.)
- Tucker, G. B., Hammond, Ind. Potato-digger. No. 918,713; Apr. 20; Sp. p. 3656; Gaz. vol. 141; p. 648.
- Tucker, J. E., New York, N. Y., assignor, by mesne assignments, to T. J. Turley, trustee, Memphis, Tenn. Automatic throw-off mechanism for printing-presses. No. 913,177; Feb. 23; Sp. p. 4443; Gaz. vol. 139; p. 801.
- Tucker, J. E., Memphis, Tenn., assignor, by mesne assignments, to Tucker Feeder Company, Augusta, Me. Paper-feed mechanism for printing-presses. No. 942,296; Dec. 7; Sp. p. 571; Gaz. vol. 149; p. 91.
- Tucker, J. M., Ripley, Tenn. Combined planter and harrow. No. 939,761; Nov. 9; Sp. p. 3913; Gaz. vol. 148; p. 478.
- Tucker, J. W., Chicago, Ill. Glazier's instrument. No. 922,361; May 18; Sp. p. 4635; Gaz. vol. 142; p. 805.
- Tucker, J. W., Chicago, Ill. Glass-cutter. No. 942,152; Dec. 7; Sp. p. 276; Gaz. vol. 149; p. 42.
- Tucker, L. P. (See Stages, Tucker, and Wood.)
- Tucker, R. (See Page, C. C., assignor.)
- Tucker, R. C., Lamont, Mich. Wagon-jack. No. 939,113; Nov. 2; Sp. p. 1408; Gaz. vol. 148; p. 229.
- Tucker, R. P., *et al.* (See Gourdin, J. K., assignor.)
- Tucker, T. W., Spokane, Wash. Protecting device for footwear. No. 942,983; Dec. 14; Sp. p. 2044; Gaz. vol. 149; p. 354.
- Tucker, W. H., Vernon, British Columbia, Canada. Irrigation-ditch outlet. No. 930,903; Aug. 10; Sp. p. 2642; Gaz. vol. 145; p. 453.
- Tuckfield, C., East Molesey, England. Cotton-gin. No. 912,210; Feb. 9; Sp. p. 2402; Gaz. vol. 139; p. 414.
- Tuckfield, C., East Molesey, England. Engine. No. 927,297; July 6; Sp. p. 1215; Gaz. vol. 144; p. 199.
- Tuckfield, C., East Molesey, England. Friction-clutch. No. 936,190; Oct. 5; Sp. p. 1235; Gaz. vol. 147; p. 187.
- Tudor, J. H., assignor of one-fourth to L. M. Moore, Lexington, Ky. Mail-delivering apparatus. No. 914,899; Mar. 9; Sp. p. 2609; Gaz. vol. 140; p. 436.
- Tudor, J. H., assignor of one-fourth to L. M. Moore, Lexington, Ky. Mail-delivering apparatus. No. 929,348; July 27; Sp. p. 5530; Gaz. vol. 144; p. 969.
- Tufenkjian, C. S., Plattsburg, N. Y. Automatic saw-tooth-setting machine. No. 926,785; July 6; Sp. p. 152; Gaz. vol. 144; p. 25.
- Tufting Machine Supply Company. (See Hulse, E. M., assignor.)
- Tufting Machine Supply Company. (See Hulse and Schramm, assignors.)
- Tufting Machine Supply Company. (See Krueger, H. L. E., assignor.)
- Tufts, H. C., Rockport, Mass. Corner-stay and reinforce for boxes. No. 922,066; May 18; Sp. p. 4060; Gaz. vol. 142; p. 710.
- Tufts, J. L., Boston, Mass., assignor of one-half to Merrimac Chemical Company. Chemical-reaction furnace. No. 930,441; Aug. 10; Sp. p. 1647; Gaz. vol. 145; p. 298.
- Tufts, J. L., Boston, Mass., assignor of one-half to Merrimac Chemical Company. Making acids. No. 930,442; Aug. 10; Sp. p. 1650; Gaz. vol. 145; p. 298.
- Tugendreich, E., Jersey City, N. J. Cork. No. 908,909; Jan. 5; Sp. p. 985; Gaz. vol. 138; p. 157.
- Tullis, H., Lisbon, Ohio. Safety gas cut-off. No. 942,601; Dec. 7; Sp. p. 1188; Gaz. vol. 149; p. 194.
- Tully, C. B., Wood Green, London, England. Manufacturing gas. No. 938,919; Nov. 2; Sp. p. 1030; Gaz. vol. 148; p. 163.
- Tully, C. F., Madera, Cal. Dental plugger. No. 944,115; Dec. 21; Sp. p. 4480; Gaz. vol. 149; p. 770.
- Tully, J., Chicago, Ill. Ornamenting glass. No. 918,798; Apr. 20; Sp. p. 3805; Gaz. vol. 141; p. 675.
- Tully, L. M., Tacoma, Wash. Fly-screen. No. 916,632; Mar. 30; Sp. p. 6051; Gaz. vol. 140; p. 1085.
- Tumlin, A. N., Cave Spring, Ga. Gin-saw cleaner. No. 942,800; Dec. 7; Sp. p. 1579; Gaz. vol. 149; p. 260.
- Tuniss, H. A., Ringwood, Okla. Coupling. No. 943,052; Dec. 14; Sp. p. 2228; Gaz. vol. 149; p. 378.
- Tunnessen, H., Hazleton, Pa. Surgical appliance. No. 934,240; Sept. 14; Sp. p. 2585; Gaz. vol. 146; p. 428.
- Tunnessen, W., Hazleton, Pa. Attachment for miners' lamps. No. 918,611; Apr. 20; Sp. p. 3377; Gaz. vol. 141; p. 611.
- Tunncliffe, R. B., Grand Rapids, Mich. Hose-supporter clasp. No. 918,398; Apr. 13; Sp. p. 2909; Gaz. vol. 141; p. 513.
- Tunstall, W. B., Melrose, assignor of one-half to Cole & Treat Co., Boston, Mass. Pneumatic for wind instruments. No. 926,686; June 29; Sp. p. 7452; Gaz. vol. 143; p. 1314.
- Tunstall, O. L., *et al.* (See Rose, J. C., assignor.)
- Tupes, H. U. S. Army, and H. E. Harrelson, Samar, Philippine Islands; said Harrelson assignor to said Tupes. Gun-cleaning device. No. 921,569; May 11; Sp. p. 3018; Gaz. vol. 142; p. 518.
- Tuppsstedt, W., Berne, Switzerland. Vapor-burner. No. 925,965; June 22; Sp. p. 6022; Gaz. vol. 143; p. 1040.
- Turbayne, W. A., Lancaster, assignor to Gould Coupler Company, New York, N. Y. Brush-holder. No. 916,065; Mar. 23; Sp. p. 4926; Gaz. vol. 140; p. 873.
- Turbayne, W. A., Lancaster, assignor to C. M. Gould, New York, N. Y. System of electrical distribution. No. 919,267; Apr. 20; Sp. p. 4933; Gaz. vol. 141; p. 827.
- Turbayne, W. A., Lancaster, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 941,113; Nov. 23; Sp. p. 5584; Gaz. vol. 148; p. 991.
- Turbyfill, N. H. (See Crouch and Turbyfill.)
- Turek, F. M., Rosebank, N. Y., assignor to C. W. Tracy, Montclair, N. J., and J. L. Oberly, New York, N. Y. Rotary printing-press. No. 910,610; Jan. 26; Sp. p. 4482; Gaz. vol. 138; p. 817.
- Turek, F. M., Rosebank, N. Y., assignor to C. W. Tracy, Montclair, N. J., and J. L. Oberly, New York, N. Y. Numbering device for printing-presses. No. 910,611; Jan. 26; Sp. p. 4484; Gaz. vol. 138; p. 817.
- Turek, R., assignor to Unique Automatic Alarm Clock Company, Zurich, Switzerland. Alarm or time-check. No. 934,241; Sept. 14; Sp. p. 2586; Gaz. vol. 146; p. 428.
- Turcott, E. H., Walker, La. Sliding-door fastener. No. 936,191; Oct. 5; Sp. p. 1236; Gaz. vol. 147; p. 187.
- Türk, L., New York, N. Y. Drying and heating apparatus. No. 931,098; Aug. 17; Sp. p. 3102; Gaz. vol. 145; p. 544.
- Turkington, W. E., Cherokee, Kans. Mold for concrete walls. No. 910,883; Jan. 26; Sp. p. 5014; Gaz. vol. 138; p. 903.
- Turley, T. J., trustee. (See Tucker, J. E., assignor.)
- Turnage, A. A., Denver, Colo. Tool for adjusting the cocks or bridge-pieces of watches. No. 920,223; May 4; Sp. p. 268; Gaz. vol. 142; p. 43.
- Turnbo, L. S., Maud, Tex. Rat-trap. No. 944,926; Dec. 23; Sp. p. 6236; Gaz. vol. 149; p. 1072.
- Turnbull, A., assignor to Stanley Rule & Level Company, New Britain, Conn. Trammel-point. No. 913,993; Mar. 2; Sp. p. 714; Gaz. vol. 140; p. 113.
- Turnbull, A. H., *et al.* (See Woodworth, J. B., assignor.)
- Turnbull, H. A., and A. Goding, Surrey Hills, Victoria, Australia. Steam-generator for motor-cars. No. 921,315; May 11; Sp. p. 2499; Gaz. vol. 142; p. 434.
- Turnbull, J. (See Parsons and Turnbull.)

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- Turnbull, M. H. C., and C. W. Tomlin, Chicago, Ill. Emergency car-coupling device. No. 934,483; Sept. 21; Sp. p. 3053; Gaz. vol. 146; p. 532.
- Turnbull, W. R., Rothesay, New Brunswick, Canada. Aeroplane and hydroplane. No. 934,771; Sept. 21; Sp. p. 3609; Gaz. vol. 146; p. 629.
- Turner, A., Leicester, England. Speed-recorder. No. 909,482; Jan. 12; Sp. p. 2121; Gaz. vol. 138; p. 376.
- Turner, A. D., Boardman, N. C. Berry-prop. No. 921,484; May 11; Sp. p. 2857; Gaz. vol. 142; p. 491.
- Turner, A. F., and F. M. Digman, Witt, Ill. Tap. No. 931,526; Aug. 17; Sp. p. 4002; Gaz. vol. 145; p. 689.
- Turner, A. R., Copper Cliff, Ontario, Canada, assignor to International Nickel Company, New York, N. Y. Converter hood and flue. No. 942,801; Dec. 7; Sp. p. 1580; Gaz. vol. 149; p. 260.
- Turner, A. R., et al., trustees. (See Jenkins, C. F., assignor.)
- Turner, B. D., Elwood City, Pa. Roller. No. 924,402; June 8; Sp. p. 2835; Gaz. vol. 143; p. 462.
- Turner Brass Works. (See Straight, A. W., assignor.)
- Turner, C. A. P., Minneapolis, Minn. Reinforced-concrete beam. No. 927,194; July 6; Sp. p. 1022; Gaz. vol. 144; p. 166.
- Turner, C. E., Macon, Ga. Pool or billiard table attachment. No. 936,585; Oct. 12; Sp. p. 2079; Gaz. vol. 147; p. 345.
- Turner, C. P., Harrisburg, Pa. Clutch for winding-drums of hoisting machinery. No. 928,482; July 20; Sp. p. 3707; Gaz. vol. 144; p. 652.
- Turner Company, G. M. b. H. (See Perkins, F. J., assignor.)
- Turner, D., assignor of one-half to C. H. Halladay, Kingfisher, Okla. Poultry-crate. No. 914,323; Mar. 2; Sp. p. 1424; Gaz. vol. 140; p. 220.
- Turner, D., assignor of three-fourths to C. H. Halladay and one-fourth to I. Mehew, Kingfisher, Okla. Poultry-crate. No. 923,736; June 1; Sp. p. 1362; Gaz. vol. 143; p. 212.
- Turner Day & Woolworth Handle Co. Inc. (See Cummins, J. A., assignor.)
- Turner, E. M., Pasadena, Cal. Internal-combustion engine. No. 931,976; Aug. 24; Sp. p. 5001; Gaz. vol. 145; p. 857.
- Turner, F., et al. (See Hansen, H. K., assignor.)
- Turner, F., Marquissville, Iowa. Liquid-vending apparatus. No. 910,747; Jan. 26; Sp. p. 4739; Gaz. vol. 138; p. 860.
- Turner, F., Norwood, Iowa. Liquid-vending apparatus. No. 910,748; Jan. 26; Sp. p. 4741; Gaz. vol. 138; p. 861.
- Turner, F. B., Ocala, Fla. Sap-collecting device. No. 923,386; June 1; Sp. p. 639; Gaz. vol. 143; p. 92.
- Turner, F. B., Ocala, Fla. Turpentine-cup. No. 923,387; June 1; Sp. p. 640; Gaz. vol. 143; p. 92.
- Turner, F. C. (See Rosenthal and Turner.)
- Turner, F. C., Birmingham, Ala. Bottle. No. 908,822; Jan. 5; Sp. p. 816; Gaz. vol. 138; p. 127.
- Turner, F. E., Kansas City, Mo. Controlling mechanism for elevators. No. 911,184; Feb. 2; Sp. p. 310; Gaz. vol. 139; p. 55.
- Turner, F. G. (See Schmitt, E. D., assignor.)
- Turner, G. E., assignor of one-tenth to H. L. Weiser, Bellefontaine, Ohio. Excavating-machine. No. 919,498; Apr. 27; Sp. p. 5483; Gaz. vol. 141; p. 942.
- Turner, G. E., assignor to Bellefontaine Foundry & Machine Company, Bellefontaine, Ohio. Steam-shovel. No. 922,213; May 18; Sp. p. 4361; Gaz. vol. 142; p. 758.
- Turner, H., Richmond, Va. Fly-trap. No. 920,696; May 4; Sp. p. 1225; Gaz. vol. 142; p. 198.
- Turner, H. B., Linton, Ind. Step-ladder. No. 930,333; Aug. 3; Sp. p. 1431; Gaz. vol. 145; p. 238.
- Turner, H. C., Los Angeles, Cal. Shock-absorber. No. 941,594; Nov. 30; Sp. p. 6920; Gaz. vol. 148; p. 1171.
- Turner, H. H., and H. M. R. Glover, Rochester, N. Y. Means for supporting phonograph-horns. No. 943,492; Dec. 14; Sp. p. 3125; Gaz. vol. 149; p. 527.
- Turner, H. P., Chicago, Ill. Deposit and collection receptacle. No. 923,912; June 8; Sp. p. 1809; Gaz. vol. 143; p. 301.
- Turner, H. P., assignor of one-third to C. P. Hurley and one-third to J. F. Riehle, Chicago, Ill. Advertising device. No. 913,994; Mar. 2; Sp. p. 715; Gaz. vol. 140; p. 113.
- Turner, J. B., Fort Smith, Ark. Automatic railway-switch. No. 929,053; July 27; Sp. p. 4558; Gaz. vol. 144; p. 869.
- Turner, J. C. (See Berryman and Turner.)
- Turner, J. C., assignor to Schieble Toy & Novelty Company, Dayton, Ohio. Toy. No. 928,228; July 13; Sp. p. 3149; Gaz. vol. 144; p. 537.
- Turner, J. C., assignor to Schieble Toy & Novelty Co., Dayton, Ohio. Toy. No. 930,107; Aug. 3; Sp. p. 1025; Gaz. vol. 145; p. 165.
- Turner, J. C., assignor to Schieble Toy & Novelty Co., Dayton, Ohio. Toy. No. 930,633; Aug. 10; Sp. p. 2088; Gaz. vol. 145; p. 364.
- Turner, J. S., Lowell, Mass. Skiving-machine. No. 922,214; May 18; Sp. p. 4365; Gaz. vol. 142; p. 759.
- Turner, K. M., New York, N. Y. Telephonic system for auditoriums. No. 941,114; Nov. 23; Sp. p. 5888; Gaz. vol. 148; p. 991.
- Turner, K. M., New York, and H. W. Haff, Babylon, N. Y., assignors to General Acoustic Company. Telephone apparatus. No. 933,404; Sept. 7; Sp. p. 832; Gaz. vol. 146; p. 129.
- Turner, L., London, England. Wheel for vehicles. No. 937,340; Oct. 19; Sp. p. 3633; Gaz. vol. 147; p. 624.
- Turner, L. A. (See Berkley, O. V., assignor.)
- Turner, M. W., et al. (See Johnson, G. F., assignor.)
- Turner, O. R., Baltimore, Md. Headlight-operating apparatus for automobiles. No. 935,435; Sept. 28; Sp. p. 4941; Gaz. vol. 146; p. 872.
- Turner, S. N., and C. F. A. Locke, New York, N. Y. Spirit-lamp. No. 914,900; Mar. 9; Sp. p. 2611; Gaz. vol. 140; p. 437.
- Turner, T. E. (See Funk and Turner.)
- Turner, T. E., Springfield, Ohio, assignor to International Harvester Company. Hay-press. No. 932,517; Aug. 31; Sp. p. 6106; Gaz. vol. 145; p. 1059.
- Turner Tanning Machinery Company. (See Perkins, F. J., assignor.)
- Turner Tanning Machinery Company. (See Turner, W. B., assignor.)
- Turner, W., and F. Stalla, Elyria, Ohio. Plumber's sanitary test-plug. No. 922,544; May 25; Sp. p. 5041; Gaz. vol. 142; p. 895.
- Turner, W. B., Melrose, assignor to Turner Tanning Machinery Company, Peabody, Mass. Machine for applying liquid to skins. No. 917,683; Apr. 6; Sp. p. 1393; Gaz. vol. 141; p. 246.
- Turner, W. E., Escanaba, Mich. Sleigh-runner. No. 914,901; Mar. 9; Sp. p. 2613; Gaz. vol. 140; p. 437.
- Turner, W. E., assignor to Ideal Fire Escape Co., Rochester, N. Y. Fire-escape. No. 936,193; Oct. 5; Sp. p. 1239; Gaz. vol. 147; p. 187.
- Turner, W. O., Beaumont, Tex. Lubricator. No. 935,948; Oct. 5; Sp. p. 742; Gaz. vol. 147; p. 110.
- Turner, W. V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Triple valve. No. 912,511; Feb. 16; Sp. p. 3070; Gaz. vol. 139; p. 553.
- Turner, W. V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure brake. No. 920,504; May 4; Sp. p. 827; Gaz. vol. 142; p. 133.
- Turner, W. V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. High-speed-reducing valve. No. 924,018; June 8; Sp. p. 2016; Gaz. vol. 143; p. 334.
- Turner, W. V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Triple valve. No. 931,238; Aug. 17; Sp. p. 3417; Gaz. vol. 145; p. 593.
- Turner, W. V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Safety-valve. No. 935,709; Oct. 5; Sp. p. 186; Gaz. vol. 147; p. 29.
- Turner, W. V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. High-speed brake. No. 936,059; Oct. 5; Sp. p. 974; Gaz. vol. 147; p. 146.
- Turner, W. V., Wilkinsburg, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. High-speed reducing-valve for air-brakes. No. 937,394; Oct. 19; Sp. p. 3749; Gaz. vol. 147; p. 642.
- Turner, W. V., Topeka, Kans., and D. M. Lewis, Raton, N. Mex. Ter., assignors to Westinghouse Air Brake Company, Pittsburg, Pa. Signal-valve-controlling mechanism. No. 909,717; Jan. 12; Sp. p. 2595; Gaz. vol. 138; p. 459.
- Turner, W. V., Wilkinsburg, and J. S. Custer, assignors to Westinghouse Air Brake Company, Pittsburg, Pa. Triple valve. No. 912,512; Feb. 16; Sp. p. 3074; Gaz. vol. 139; p. 554.
- Turner, W. V., Wilkinsburg, and J. S. Custer, assignors to Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure brake. No. 937,392; Oct. 19; Sp. p. 3740; Gaz. vol. 147; p. 641.
- Turner, W. V., Edgewood, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure brake. No. 917,193; Apr. 6; Sp. p. 471; Gaz. vol. 141; p. 83.
- Turner, W. V., Edgewood, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure brake. No. 917,194; Apr. 6; Sp. p. 474; Gaz. vol. 141; p. 83.
- Turner, W. V., Edgewood, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Brake-valve device. No. 929,054; July 27; Sp. p. 4561; Gaz. vol. 144; p. 869.
- Turner, W. V., Edgewood, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Pressure-governing apparatus. No. 929,055; July 27; Sp. p. 4563; Gaz. vol. 144; p. 870.
- Turner, W. V., Wilkinsburg, Pa., and C. C. Farmer, Chicago, Ill., assignors to Westinghouse Air Brake Company, Pittsburg, Pa. Air-brake. No. 931,237; Aug. 17; Sp. p. 3414; Gaz. vol. 145; p. 592.
- Turner, W. V., Wilkinsburg, and R. H. Blackall, Edgewood Park, assignors to Westinghouse Air Brake Company, Pittsburg, Pa. Electric fluid-pressure brake. No. 937,393; Oct. 19; Sp. p. 3744; Gaz. vol. 147; p. 641.
- Turney, B. E., Bridgeport, Conn. Electric mouth-mirror. No. 938,525; Nov. 2; Sp. p. 189; Gaz. vol. 148; p. 27.
- Turney, C., Surprise, Nebr. Whip socket and lock. No. 944,979; Dec. 28; Sp. p. 6343; Gaz. vol. 149; p. 1088.
- Turney, E. E., Lima, assignor to Dayton Malleable Iron Company, Dayton, Ohio. Operating mechanism for automatic car-couplings. (Reissue.) No. 13,030; Oct. 26; Sp. p. 6035; Gaz. vol. 147; p. 1019.



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- Turney, H. L., Portland, Oreg. Clutch-operating mechanism. No. 914,536; Mar. 9; Sp. p. 1860; Gaz. vol. 140; p. 317.
- Turney, W. S., Greensburg, Pa. Cover for ladies' hats. No. 914,206; Mar. 2; Sp. p. 1175; Gaz. vol. 140; p. 184.
- Turpin, J. A., Norfolk Va. Revolvable clothes-frame. No. 928,823; July 20; Sp. p. 4388; Gaz. vol. 144; p. 764.
- Turrentine, J. M. (See Sims, Hatch, and Turrentine.)
- Turton, T., Kilgore, Idaho, assignor to W. Hoskins, La Grange, Ill. Blasting-cartridge. No. 936,192; Oct. 5; Sp. p. 1238; Gaz. vol. 147; p. 187.
- Turturro, N., Mount Vernon, N. Y. Stringed musical instrument. No. 937,121; Oct. 19; Sp. p. 3148; Gaz. vol. 147; p. 554.
- Tustison, O. M., Bainbridge, Ind. Circuit-closer. No. 928,824; July 20; Sp. p. 4389; Gaz. vol. 144; p. 764.
- Tuteur, J., Cleveland, Ohio. Hanger for joists. No. 922,215; May 18; Sp. p. 4368; Gaz. vol. 142; p. 759.
- Tuthill, C. L., and C. C. Van Wormer, Aurora, Ill. Game apparatus. No. 925,534; June 22; Sp. p. 5105; Gaz. vol. 143; p. 899.
- Tutt, W. D., Elberton, Ga. Rotary engine. No. 911,852; Feb. 9; Sp. p. 1615; Gaz. vol. 139; p. 300.
- Tuttle, A. R., Sterling, Nebr. Whip-socket. No. 953,140; Sept. 7; Sp. p. 211; Gaz. vol. 146; p. 36.
- Tuttle, F. A., Na-au-say township, Kendall county, Ill. Cultivator-shield for corn-cultivators. No. 917,912; Apr. 13; Sp. p. 1927; Gaz. vol. 141; p. 349.
- Tuttle, H. A., assignor to Evans Stamping & Plating Company, Taunton, Mass. Band-brake. No. 917,814; Apr. 13; Sp. p. 1715; Gaz. vol. 141; p. 316.
- Tuttle, O. S., Randolph, N. Y. Attachment for lawn-mowers. No. 931,527; Aug. 17; Sp. p. 4002; Gaz. vol. 145; p. 689.
- Tuttle, P. I. (See Loomis and Tuttle.)
- Tuttle, W. R., Nunda, N. Y. Drum batch-mixer. No. 939,762; Nov. 9; Sp. p. 2914; Gaz. vol. 148; p. 479.
- Tuttle, W. S., Philadelphia, Pa. Sanitary vent. No. 937,893; Oct. 26; Sp. p. 4783; Gaz. vol. 147; p. 827.
- Twamley, C. E., Alexandria, S. D. Seed-corn tester. (Reissue.) No. 13,031; Oct. 26; Sp. p. 6036; Gaz. vol. 147; p. 1020.
- Tweedale, R., et al. (See Durant, H. T., assignor.)
- Tweedale, W. J., Saginaw, Mich. Combination-tool. No. 936,194; Oct. 5; Sp. p. 1240; Gaz. vol. 147; p. 188.
- Tweel, A. (See Roland, T. H., assignor.)
- Twiford, G. A., administratrix. (See Twiford, N. S.)
- Twiford, N. S., deceased; G. A. Twiford, administratrix, Pomona, Cal. System for the automatic control and distribution of water for irrigation. No. 917,381; Apr. 6; Sp. p. 858; Gaz. vol. 141; p. 147.
- Twiford, N. S., deceased; G. A. Twiford, administratrix, Pomona, Cal. Irrigating hydrant-head. No. 935,566; Sept. 28; Sp. p. 5230; Gaz. vol. 146; p. 917.
- Twiford, N. S., deceased; G. A. Twiford, administratrix, Pomona, Cal. Flow-regulating device. No. 937,728; Oct. 19; Sp. p. 4438; Gaz. vol. 147; p. 753.
- Twinklock Company. (See Maltby, C. C., assignor.)
- Twitchell, C. R., Los Angeles, Cal. Pressure-gage for pneumatic tires. No. 927,298; July 6; Sp. p. 1217; Gaz. vol. 144; p. 200.
- Twitchell, E., Wyoming, Ohio. Separating liquid from solid fatty acids. No. 918,612; Apr. 20; Sp. p. 3378; Gaz. vol. 141; p. 612.
- Two Edge Mfg. Co. (See McLeran, A. M., assignor.)
- Twohig, J., Hull, Ill. Jar-holder. No. 942,602; Dec. 7; Sp. p. 1190; Gaz. vol. 149; p. 194.
- Twohig, R., Salina, Kans. Washing-machine. No. 929,999; Aug. 3; Sp. p. 801; Gaz. vol. 145; p. 128.
- Twohmbly, W. F., Hebron, Iowa. Bag-holding appliance. No. 913,586; Feb. 23; Sp. p. 5306; Gaz. vol. 139; p. 939.
- Twyman, L. T., Gulfport, Miss. Nut-lock. No. 922,642; May 25; Sp. p. 5242; Gaz. vol. 142; p. 927.
- Tyden, E. (See Burton, C. S., assignor.)
- Tyden, E. (See Franks, O. G., assignor.)
- Tyden, E., Hastings, Mich. Extension-table lock. (Reissue.) No. 13,014; Aug. 24; Sp. p. 5887; Gaz. vol. 145; p. 1004.
- Tyden, E., Hastings, Mich. Extension-table. No. 936,494; Oct. 12; Sp. p. 1897; Gaz. vol. 147; p. 313.
- Tyden, E., Hastings, Mich. Extension-table. No. 936,586; Oct. 12; Sp. p. 2080; Gaz. vol. 147; p. 345.
- Tygerson, A. (See Hermansen and Tygerson.)
- Tyler, A. F. (See Kohl and Walter, assignors.)
- Tyler, C., et al. (See Evans, L. J., assignor.)
- Tyler, F. A. (See Sack and Tyler.)
- Tyler, F. C., Cleveland, Ohio. Nut-tapping machine. No. 927,901; July 13; Sp. p. 2505; Gaz. vol. 144; p. 427.
- Tyler, F. C., Cleveland, Ohio. Automatic feed-hopper for nut-tapping and other machines. No. 927,902; July 13; Sp. p. 2509; Gaz. vol. 144; p. 428.
- Tyler, J. R. (See Dickinson and Tyler.)
- Tyler, M. H., Muncie, Ind. Meat-tenderer and vegetable-chopper. No. 935,710; Oct. 5; Sp. p. 138; Gaz. vol. 147; p. 30.
- Tyler, R. W., Galesburg, Ill. Skirt-length gage. No. 932,192; Aug. 24; Sp. p. 5460; Gaz. vol. 145; p. 929.
- Tyler, S., assignor to Warwood Tool Company, Wheeling, W. Va. Bit connection for miners' augers. No. 909,968; Jan. 19; Sp. p. 3106; Gaz. vol. 138; p. 574.
- Tyll, J., Toledo, Ohio. Garbage-drainer for sinks. No. 914,090; Mar. 2; Sp. p. 936; Gaz. vol. 140; p. 147.
- Tynan, J. A., assignor of one-half to Byram Foundry Company, Indianapolis, Ind. Stove or furnace grate. No. 917,382; Apr. 6; Sp. p. 860; Gaz. vol. 141; p. 147.
- Tynan, J. A., assignor of one-half to Byram Foundry Company, Indianapolis, Ind. Heating-stove. (Reissue.) No. 12,937; Apr. 6; Sp. p. 1536; Gaz. vol. 141; p. 268.
- Tyner E. A., administratrix. (See Tyner, T. J.)
- Tyner, T. J., deceased; E. A. Tyner, administratrix, Washington, D. C. Corn-cob smoking-pipe and making the same. No. 938,443; Oct. 26; Sp. p. 5987; Gaz. vol. 147; p. 1014.
- Typewriting Telegraph Company. (See Crehore, A. C., assignor.)
- Tyremann, L., assignor of one-half to W. H. Lawell, Stroudsburg, Pa. Telegraph-pole arm. No. 931,661; Aug. 17; Sp. p. 4278; Gaz. vol. 145; p. 730.
- Tyrnauer, D., Vienna, Austria-Hungary. Device for treating the human body with heated air. No. 911,185; Feb. 2; Sp. p. 316; Gaz. vol. 139; p. 56.
- Tyrell, H. F., Burghill, Ohio. Lap-robe holder. No. 933,405; Sept. 7; Sp. p. 834; Gaz. vol. 146; p. 130.
- Tyrell, J. J., Yonkers, N. Y. Wrist-supporter. No. 923,217; June 1; Sp. p. 199; Gaz. vol. 143; p. 33.
- Tyrell, L. L., Bucoda, Wash. Steam crab or winch. No. 916,633; Mar. 30; Sp. p. 6052; Gaz. vol. 140; p. 1085.
- Tyson, F., Canton, Ohio. Ice-cream freezer. No. 923,609; June 1; Sp. p. 1120; Gaz. vol. 143; p. 171.
- Tyson, J. (See Guindon and Tyson.)
- Tyson, O. R., Los Angeles, Cal. Package. No. 925,535; June 22; Sp. p. 5107; Gaz. vol. 143; p. 899.
- Tyler, A. C., Basin, Wyo. Toy. No. 911,462; Feb. 2; Sp. p. 833; Gaz. vol. 139; p. 146.
- U. S. Mail Chute Equipment Company. (See Ehrlich, L., assignor.)
- U. S. Paper Goods Co. (See Vierengel, M., assignor.)
- U. S. Paper Goods Company. (See Solge, J., assignor.)
- U. S. Bobbin and Shuttle Co. (See Brown, H. M., assignor.)
- U. S. Standard Voting Machine Company. (See Gillespie, A. J., assignor.)
- U. S. Standard Voting Machine Company. (See Lausterer, W. J., assignor.)
- Ucker, A. C., Everton, Mo. Show-case. No. 912,921; Feb. 16; Sp. p. 3919; Gaz. vol. 139; p. 690.
- Udall, J. C., Sound Beach, Conn. Making stencils. No. 929,730; Aug. 3; Sp. p. 193; Gaz. vol. 145; p. 34.
- Uebbing, J. T., Cleveland, Ohio. Machine part having bearing-sleeve. No. 918,399; Apr. 13; Sp. p. 2911; Gaz. vol. 141; p. 513.
- Uebbing, J. T., Cleveland, Ohio. Casting machine parts. No. 918,400; Apr. 13; Sp. p. 2913; Gaz. vol. 141; p. 514.
- Uebbing, J. T., Cleveland, Ohio, and H. Marshall, New York, N. Y., assignors to Addograph Manufacturing Company. Computing-machine. No. 914,467; Mar. 9; Sp. p. 1714; Gaz. vol. 140; p. 294.
- Uebelmesser, C. R., New York, N. Y. Device for repairing moving-picture films. No. 913,326; Feb. 23; Sp. p. 4756; Gaz. vol. 139; p. 851.
- Uebelmesser, C. R., New York, N. Y. Smoothing-tool. No. 913,327; Feb. 23; Sp. p. 4758; Gaz. vol. 139; p. 852.
- Uebelmesser, C. R., New York, N. Y. Reel for moving-picture machines. No. 913,328; Feb. 23; Sp. p. 4759; Gaz. vol. 139; p. 852.
- Ueble, C. (See Umbach, C. F. G., assignor.)
- Uehler, W. J., West Schuyler, N. Y. Milking-machine. No. 935,338; Sept. 28; Sp. p. 4761; Gaz. vol. 146; p. 842.
- Uehling, E. A., Passaic, N. J. Machinery for conveying blast-furnace slag. No. 923,218; June 1; Sp. p. 200; Gaz. vol. 143; p. 33.
- Ufford, C. A., Boston, Mass. Dress-form. No. 908,910; Jan. 5; Sp. p. 986; Gaz. vol. 138; p. 157.
- Ufford, C. A., Boston, Mass. Dress-form. No. 913,329; Feb. 23; Sp. p. 4761; Gaz. vol. 139; p. 852.
- Ufford, C. A., Boston, Mass. Dress-form. No. 921,184; May 11; Sp. p. 2220; Gaz. vol. 142; p. 391.
- Ufford, C. W., Elmira, N. Y. Box-lid holder. No. 930,245; Aug. 3; Sp. p. 1280; Gaz. vol. 145; p. 210.
- Uggeldahl, G. A., assignor of one-sixth to J. Erickson and one-sixth to W. E. Marker, Seattle, Wash. Railway-switch. No. 915,129; Mar. 16; Sp. p. 3072; Gaz. vol. 140; p. 538.
- Uherkocz, J. U. de, Bayonne, N. J. Winged propelling and guiding mechanism for air-ships. No. 920,792; May 4; Sp. p. 1418; Gaz. vol. 142; p. 229.

*Alphabetical list of patentees—Continued.*

- Uhl, J. F. L., Toledo, Ohio. Caster-wheel. No. 915,909; Mar. 23; Sp. p. 4633; Gaz. vol. 140; p. 822.
- Uhl, W. F., assignor to Allis-Chalmers Company, Milwaukee, Wis. Turbine. No. 922,216; May 18; Sp. p. 4370; Gaz. vol. 142; p. 760.
- Uhlemann, W. R., Chicago, Ill. Lens-mounting. No. 933,502; Sept. 7; Sp. p. 1125; Gaz. vol. 146; p. 161.
- Uhlenhuth, R., assignor to Farbwerke vorm. Meister Lucius & Bruning, Höchst-on-the-Main, Germany. Brown anthraquinone dye and making same. No. 943,717; Dec. 21; Sp. p. 3647; Gaz. vol. 149; p. 633.
- Uhler, R. (See Person and Uhler.)
- Uhlhorn, D., Jr., Grevenbroich, Germany. Grain-hulling mill. No. 918,226; Apr. 13; Sp. p. 2571; Gaz. vol. 141; p. 458.
- Uhlthorn, R. W., Rutherford, N. J., assignor to Emerson Typewriter Company, Chicago, Ill. Printing mechanism for type-writers. No. 936,833; Oct. 12; Sp. p. 2567; Gaz. vol. 147; p. 429.
- Uhlrig, R. W., Rutherford, N. J., assignor to Emerson Typewriter Company, Chicago, Ill. Ribbon-feeding mechanism for type-writers. No. 936,834; Oct. 12; Sp. p. 2575; Gaz. vol. 147; p. 429.
- Uhlmann, C. R., Peoria, Ill. Brush. No. 929,731; Aug. 3; Sp. p. 195; Gaz. vol. 145; p. 34.
- Uhri, J., assignor of one-half to A. Kempf, Laporte, Ind. Metal-forming machine. No. 922,217; May 18; Sp. p. 4372; Gaz. vol. 142; p. 760.
- Uhrland, W. E., St. Louis, Mo. Game-board. No. 918,799; Apr. 20; Sp. p. 3806; Gaz. vol. 141; p. 675.
- Uhtbrock, F., New York, N. Y. Oven-door. No. 919,654; Apr. 27; Sp. p. 5782; Gaz. vol. 141; p. 994.
- Ulbrich, S., Chicago, Ill. Violin-mute. No. 911,853; Feb. 9; Sp. p. 1617; Gaz. vol. 139; p. 300.
- Ulbrich, W., Atlantic, Iowa. Seed-corn rack. No. 911,923; Feb. 9; Sp. p. 1749; Gaz. vol. 139; p. 324.
- Ulery, F. S., Hoopston, Ill. Machine for comminuting corn. No. 919,499; Apr. 27; Sp. p. 5485; Gaz. vol. 141; p. 942.
- Ulery, H. H., Hoopston, Ill. Machine for separating silk from green corn. No. 927,086; July 6; Sp. p. 820; Gaz. vol. 144; p. 131.
- Ullmann, E., assignor to Arthur Koppel Aktiengesellschaft, Berlin, Germany. Hopper-car. No. 934,860; Sept. 21; Sp. p. 3789; Gaz. vol. 146; p. 657.
- Ullom, A., assignor of one-half to H. Eikenberry, Richmond, Ind. Folding wardrobe, cupboard, or the like. No. 933,210; Sept. 7; Sp. p. 400; Gaz. vol. 146; p. 62.
- Ulmen, C. R., Minneapolis, Minn. Picture-frame. No. 911,530; Feb. 2; Sp. p. 969; Gaz. vol. 139; p. 169.
- Ulrey, S. J. (See Gillett and Ulrey.)
- Ulrich, H. K., and B. T. Cubine, Kansas City, Mo. Roof-flashing. No. 921,752; May 18; Sp. p. 3411; Gaz. vol. 142; p. 607.
- Ulrich, S. A., Mendota, Mo. Road-grader. No. 917,977; Apr. 13; Sp. p. 2059; Gaz. vol. 141; p. 372.
- Ulrichs, E., Elberfeld, assignor to Firm of Wülffing, Dahl & Co., Actiengesellschaft, Barmen, Germany. Azo lake and making same. No. 910,030; Jan. 19; Sp. p. 3220; Gaz. vol. 138; p. 594.
- Ulrichs, E., Elberfeld, assignor to Firm of Wülffing, Dahl & Co., Actiengesellschaft, Barmen, Germany. Red mono-azo dye. No. 911,186; Feb. 2; Sp. p. 318; Gaz. vol. 139; p. 56.
- Ulrichs, E., Elberfeld, assignor to Company Wülffing, Dahl & Co., Actiengesellschaft, Farbenfabriken, Barmen, Germany. Making a red azo dye. No. 936,260; Oct. 5; Sp. p. 1355; Gaz. vol. 147; p. 209.
- Ulrichs, E., Alter Markt, Elberfeld, assignor to Company "Wülffing, Dahl & Co., Actiengesellschaft Farbenfabriken," Barmen, Germany. Azo dye. No. 937,741; Oct. 19; Sp. p. 4460; Gaz. vol. 147; p. 756.
- Ulsh, C. A. (See Lewis, R. C., assignor.)
- Ultsch, W. L. (See Luethy, F. C., assignor.)
- Umbach, C. F. G., Allegheny, assignor to C. Ueble, Pittsburg, Pa. Machine for sealing envelops. No. 932,920; Aug. 31; Sp. p. 6935; Gaz. vol. 145; p. 1192.
- Umberger, B. L. (See Ray, T. F., Jr., assignor.)
- Umdenstock, J., Peoria, Ill. Shoe-stretcher. No. 940,092; Nov. 16; Sp. p. 3647; Gaz. vol. 148; p. 622.
- Umries, T. P., Cedartown, Ga. Foldable shipping-crate. No. 940,754; Nov. 23; Sp. p. 5126; Gaz. vol. 148; p. 873.
- Umholtz, A., Magnolia, N. J. Screw. No. 933,865; Sept. 14; Sp. p. 1843; Gaz. vol. 146; p. 304.
- Umholtz, C. F., Bristol, Va. Vehicle-wheel bearing mechanism. No. 925,536; June 22; Sp. p. 5110; Gaz. vol. 143; p. 900.
- Umpleby, J. H., Friendly, W. Va. Clamp. No. 936,195; Oct. 5; Sp. p. 1242; Gaz. vol. 147; p. 188.
- Umstead, W. H. R., Harrison, N. J. Foldable umbrella. No. 920,505; May 4; Sp. p. 832; Gaz. vol. 142; p. 134.
- Unckrich, F. F., and C. L. Seeley, Galion, Ohio. Car-door operator. No. 932,836; Aug. 31; Sp. p. 6790; Gaz. vol. 145; p. 1164.
- Undeland, A. L., Omaha, Nebr. Head-rest for barber-chairs. No. 942,603; Dec. 7; Sp. p. 1191; Gaz. vol. 149; p. 194.
- Under-Feed Stoker Company. (See Roe, J. M., assignor.)
- Underfeed Stoker Company. (See Wood, W. R., assignor.)
- Underhill, C. R., Providence, R. I., assignor to Underhill Telegraph Translator Company, Jersey City, N. J. Wireless-telegraph system. No. 929,349; July 27; Sp. p. 5532; Gaz. vol. 144; p. 969.
- Underhill Telegraph Translator Company. (See Underhill, C. R., assignor.)
- Underhill, Z. D., Bedford Station, N. Y. Cat-guard. No. 940,755; Nov. 23; Sp. p. 5128; Gaz. vol. 148; p. 873.
- Underhill, Z. D., Bedford Station, N. Y. Game apparatus. No. 942,984; Dec. 14; Sp. p. 2044; Gaz. vol. 149; p. 354.
- Underpinning Company. (See Breuchaud, J., assignor.)
- Underwood, A. B., Covington, Ky. Loose-leaf binder. No. 913,073; Feb. 23; Sp. p. 4232; Gaz. vol. 139; p. 766.
- Underwood, H. J., et al. (See Devore, F. M., assignor.)
- Underwood, H. M., Unionville, Iowa. Hay-stacker. No. 908,522; Jan. 5; Sp. p. 187; Gaz. vol. 138; p. 32.
- Underwood, J. W., St. Louis, Mo. Flash-light apparatus. No. 939,354; Nov. 9; Sp. p. 2010; Gaz. vol. 148; p. 339.
- Underwood, L. E., Lynn, Mass., assignor to General Electric Company. Pole-piece for dynamo-electric machines. No. 920,886; May 4; Sp. p. 1623; Gaz. vol. 142; p. 259.
- Underwood, L. E., Lynn, Mass., assignor to General Electric Company. Insulating-stud. No. 928,084; July 13; Sp. p. 2860; Gaz. vol. 144; p. 488.
- Underwood, S. S., Montreal, Quebec, Canada. Brake-beam hanger. No. 942,985; Dec. 14; Sp. p. 2047; Gaz. vol. 149; p. 355.
- Underwood Typewriter Company. (See Allard, J. F., assignor.)
- Underwood Typewriter Company. (See Bates, H., assignor.) (Reissue.)
- Underwood Typewriter Company. (See Broughton, L. D., assignor.)
- Underwood Typewriter Company. (See Burns and Horton, assignors.)
- Underwood Typewriter Company. (See Cook, F. A., assignor.)
- Underwood Typewriter Company. (See Cooper, J. J., assignor.)
- Underwood Typewriter Company. (See Crutchley, H., assignor.)
- Underwood Typewriter Company. (See Doane, J. C., assignor.)
- Underwood Typewriter Company. (See Fuller, U. G., assignor.)
- Underwood Typewriter Company. (See Gibbs and Sokolov, assignors.)
- Underwood Typewriter Company. (See Helmond, W. F., assignor.)
- Underwood Typewriter Company. (See Hewitt, A. W., assignor.)
- Underwood Typewriter Company. (See Howell, C. W., Jr., assignor.)
- Underwood Typewriter Company. (See Kunath, E. F., assignor.)
- Underwood Typewriter Company. (See Lundeborg, C. F., assignor.)
- Underwood Typewriter Company. (See McCormack, H. S., assignor.)
- Underwood Typewriter Company. (See McLaughlin, J. C., assignor.)
- Underwood Typewriter Company. (See Morgan, F. L., assignor.)
- Underwood Typewriter Company. (See Ney, L., assignor.)
- Underwood Typewriter Company. (See Pfunder, E. L., assignor.)
- Underwood Typewriter Company. (See Rice, C. D., assignor.)
- Underwood Typewriter Company. (See Sickles, F. W., assignor.)
- Underwood Typewriter Company. (See Strong, E. E., assignor.)
- Underwood Typewriter Company. (See Ursbruck, F. C., assignor.)
- Underwood Typewriter Company. (See Wagner, F. X., assignor.)
- Underwood Typewriter Company. (See Wagner, F. X., assignor.) (Reissue.)
- Underwood Typewriter Company. (See Woodford, W. H., assignor.)
- Underwood Typewriter Company. (See Young, F. A., assignor.)
- Unger, C. W., Los Angeles, Cal. Fishing-rod support. No. 919,981; Apr. 27; Sp. p. 6451; Gaz. vol. 141; p. 1102.
- Unger, C. W., Los Angeles, Cal. Fishing-reel attachment. No. 932,837; Aug. 31; Sp. p. 6792; Gaz. vol. 145; p. 1165.
- Unger, F. C., St. Louis, Mo. Telephone system. No. 936,495; Oct. 12; Sp. p. 1899; Gaz. vol. 147; p. 314.
- Unger, H. C., Alliance, Ohio. Band for horses' tails. No. 934,638; Sept. 21; Sp. p. 3360; Gaz. vol. 146; p. 585.
- Unger, J. W., Christopher, Ill. Cage-lock. No. 916,380; Mar. 23; Sp. p. 5503; Gaz. vol. 140; p. 977.
- Unger, L. W., Clairton, Pa. Stamping apparatus. No. 933,733; Sept. 7; Sp. p. 1591; Gaz. vol. 146; p. 240.
- Unger, M., Schenectady, N. Y. Automatic weight and cost scale. No. 914,764; Mar. 9; Sp. p. 2340; Gaz. vol. 140; p. 393.
- Unger, M., Pittsfield, Mass., assignor to General Electric Company. Induction-furnace. No. 941,435; Nov. 30; Sp. p. 6605; Gaz. vol. 148; p. 1119.



*Alphabetical list of patentees—Continued.*

- Ungerer, K. F., and E. Becker, Pforzheim, Germany. Soldering cord chains. No. 944,640; Dec. 28; Sp. p. 5626; Gaz. vol. 149; p. 976.  
 Union, F. L., New York, N. Y. Ladder. No. 936,681; Oct. 12; Sp. p. 2281; Gaz. vol. 147; p. 378.  
 Union Fibre Company. (See Brown, A. G., assignor.)  
 Union Hardware Company. (See Martin, J. E., assignor.)  
 Union Iron Works Co. (See Dahl, K. M., assignor.)  
 Union Lock Stitch Company. (See Merrick, F. W., assignor.)  
 Union Manufacturing Company. (See Church, A. E., assignor.)  
 Union Paper Bag Machine Company. (See Avery, T. M., assignor.)  
 Union Paper Bag Machine Company. (See Clausen, E. E., assignor.)  
 Union Paper Bag Machine Company. (See Fuller, W. C., assignor.)  
 Union Paper Bag Machine Company. (See Stilwell, C. B., assignor.)  
 Union Screen Plate Company. (See Welch and Crocker, assignors.)  
 Union Shoe Polishing Machine Company. (See Steiger, W. H., assignor.)  
 Union Special Machine Company. (See Kershner, B. V., assignor.)  
 Union Special Machine Company. (See McNeil, C., assignor.)  
 Union Special Machine Company. (See Moffatt, J. R., assignor.)  
 Union Special Machine Company. (See Onderdonk, L., assignor.)  
 Union Special Sewing Machine Co. (See Onderdonk, L., assignor.)  
 Union Special Sewing Machine Co. (See Woodward, R. G., assignor.)  
 Union Steam Pump Company. (See Bird, J. C., assignor.)  
 Union Switch & Signal Company. (See Brewer, W., assignor.)  
 Union Switch & Signal Company. (See Coleman, J. P., assignor.)  
 Union Switch & Signal Company. (See Craft, L. H., assignor.)  
 Union Switch & Signal Company. (See Foster, W. E., assignor.)  
 Union Switch & Signal Company. (See Hobson, J. S., assignor.)  
 Union Switch & Signal Company. (See Holliday, J. S., assignor.)  
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 Union Switch and Signal Company. (See Mock, J. C., assignor.)  
 Union Switch & Signal Company. (See Neubert, W. F., assignor.)  
 Union Switch and Signal Company. (See Roome, W. G., assignor.)  
 Union Switch & Signal Company. (See Schreuder and Spicer, assignors.)  
 Union Switch and Signal Company. (See Taylor, J. D., assignor.)  
 Union Switch & Signal Company. (See Thullen, L. H., assignor.)  
 Union Switch & Signal Company. (See Utne, P., assignor.)  
 Union Switch & Signal Company. (See Waldron, J. M., assignor.)  
 Union Typewriter Company. (See Barr, J. H., assignor.)  
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 Union Typewriter Company. (See Daugherty, J. D., assignor.)  
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 Union Typewriter Company. (See Steiger, A. W., assignor.)  
 Union Typewriter Company. (See Stickney, B. C., assignor.)  
 Union Typewriter Company. (See Tanner, F. J., assignor.)  
 Union Water Meter Company. (See Larrabee, W. H., assignor.)  
 Union Wire Mattress Company. (See Kilpiel, T., assignor.)  
 Unique Automatic Alarm Clock Company. (See Türk, R., assignor.)  
 Unit Coil Company. (See Lawton, B. L., assignor.)  
 Unit Steel Cabinet Company. (See Walton, S. T., assignor.)  
 United Button Company. (See Tenney, F. F., assignor.)  
 United Centadrink Manufacturing Company. (See Lavens, E., assignor.)  
 United Centadrink Manufacturing Company. (See Pein, H., assignor.)  
 United Cigarette Machine Company. (See Nast, G., assignor.)  
 United Coke and Gas Company. (See Atwater, C. G., assignor.)  
 United Coke and Gas Company. (See Schulte, E., assignor.)  
 United Dairies Company. (See Choate, H. H., assignor.)  
 United Drug Company. (See Dionne, C. J., assignor.)  
 United Electric Signal Company. (See Wood, S. A., assignor.)  
 United Engineering & Foundry Company. (See Biggert, F. C., Jr., assignor.)  
 United Engineering & Foundry Company. (See Cordes, F., assignor.)  
 United Gas Improvement Company. (See Dickey, S. J., assignor.)  
 United Manufacturing Company. (See Link, H. N., assignor.)  
 United Printing Machinery Company. (See Piper, M. H., assignor.)  
 United Railways Company. (See O'Brien, M., assignor.)  
 United Revolving Door Company. (See Clymer and Degen, assignors.)  
 United Sales Company. (See Page, M. H., assignor.)  
 United Shirt and Collar Company. (See Dormandy, G. J., assignor.)  
 United Shirt and Collar Company. (See Pine and Taft, assignors.)  
 United Shoe Machinery Company. (See Alford, L. P., assignor.)  
 United Shoe Machinery Company. (See Alley, F. L., assignor.)  
 United Shoe Machinery Company. (See Ambler, G. A., assignor.)  
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 United Shoe Machinery Company. (See Davey, J. F., assignor.)

*Alphabetical list of patentees—Continued.*

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 United Shoe Machinery Company. (See Eaton, H. H., assignor.)  
 United Shoe Machinery Company. (See Eaton and Goddu, assignors.)  
 United Shoe Machinery Company. (See Engel, K., assignor.)  
 United Shoe Machinery Company. (See Eppler, A., assignor.)  
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 United Shoe Machinery Company. (See Hodskinson, J. H., assignor.)  
 United Shoe Machinery Company. (See Holt, T. H. A., assignor.)  
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 United Shoe Machinery Company. (See La Chapelle, E. I., assignor.)  
 United Shoe Machinery Company. (See Leach, A., assignor.)  
 United Shoe Machinery Company. (See Lynch, J. M., assignor.)  
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 United Shoe Machinery Company. (See Mayo, B. F., assignor.)  
 United Shoe Machinery Company. (See Mayo and Buckminster, assignors.)  
 United Shoe Machinery Company. (See McFeely, R. F., assignor.)  
 United Shoe Machinery Company. (See Miller, L. V., assignor.)  
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 United Shoe Machinery Company. (See Paris, W., assignor.)  
 United Shoe Machinery Company. (See Parker and Collyer, assignors.)  
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 United Shoe Machinery Company. (See Phillips, B., assignor.)  
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 United Shoe Machinery Company. (See Wade, W. E., assignor.)  
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 United Shoe Machinery Company. (See Warren, G. E., assignor.)  
 United Shoe Machinery Company. (See Webster and Towle, assignors.)  
 United Shoe Machinery Company. (See Wheeler, W. O., assignor.)  
 United Shoe Machinery Company. (See Wiggin, J. M., assignor.)  
 United Shoe Machinery Company. (See Winkley, E. E., assignor.)  
 United States Automatic Weighing Machine Company. (See Weyant, T. R., assignor.)  
 United States Calculating Machine Co. (See Graber, J., assignor.)  
 United States Carbo-Welding Company of Delaware. (See Simpson, W. S., assignor.)  
 United States Cast Iron Pipe & Foundry Company. (See Giles, D., assignor.)  
 United States Coal Saver & Smoke Consumer Company. (See Orvis, O. D., assignor.)  
 United States Construction and Utilization Company. (See Wiseloge, F. G., assignor.)  
 United States Cotton Seed Oil Company. (See Worth, W. E., assignor.)  
 United States Electric Company. (See Gill, E. R., assignor.)  
 United States Electric Rock Drill Company. (See Fowden, R. A., assignor.)  
 United States Envelope Company. (See Haslop, G. H., assignor.)  
 United States Envelope Company. (See Metcalfe, W. S., assignor.)  
 United States Envelope Company. (See Slater, W. D., assignor.)  
 United States Envelope Company. (See Swift, W. E., assignor.)  
 United States Fastener Company. (See Holmes, G. A., assignor.)  
 United States Fastener Company. (See McCormack, G. A., assignor.)  
 United States Floor Surfacing Machine Company. (See Allen, F. R., assignor.)  
 United States Floor Surfacing Machine Company. (See Whatley, A. H., assignor.)  
 United States Graphotype Company. (See Ackerman, W., assignor.)  
 United States Light and Heating Company. (See Moskowitz, M., assignor.)  
 United States Liquid Air & Oxygen Company. (See Bobrick, G. A., assignor.)  
 United States Lock-Nut Company. (See Brach, L. S., assignor.)  
 United States Mail Chute Equipment Company. (See Ehrlich, L., assignor.)  
 United States Metallic Packing Company. (See King, C. W. G., assignor.)  
 United States Ordnance Company. (See Leech, A. Y., Jr., assignor.)  
 United States Paper Goods Company. (See Stuart, H. W., assignor.)  
 United States Persian Carpet Company. (See Dalkranian, J. K., assignor.)  
 United States Pick Company. (See Blow, C. H., assignor.)  
 United States Promoting & Mfg. Co. (See Michael, O. P. W., assignor.)  
 United States Radiator Company. (See Danforth, M. E., assignor.)  
 United States Smelting, Refining & Mining Company. (See Sprague, C. B., assignor.)  
 United States Stone Saw Company. (See Livingston, A. W., assignor.)  
 United Water Improvement Company. (See Vosmaer, A., assignor.)  
 United Wireless Telegraph Co. (See Babcock, C. D., assignor.)  
 United Wireless Telegraph Co. (See De Groot, H. B., assignor.)  
 Unitype Company. (See Des Jardins, B. M., assignor.)  
 Universal Automatic Carving Machine Co. (See Baase, H. C., assignor.)  
 Universal Automatic Carving Machine Co. (See De Tangle, M., assignor.)  
 Universal Automatic Typecasting Machine Company. (See Nuernberger and Rettig, assignors.)  
 Universal Brush Company. (See Alexander, H., assignor.)  
 Universal Caster & Foundry Company. (See Diss, A. B., assignor.)  
 Universal Caster & Foundry Company. (See Neuberth, G. E., assignor.)  
 Universal Fiber Company. (See Selvig, J. N., assignor.)  
 Universal Gas Implement Company *et al.* (See Herr, C. H., assignor.)  
 Universal Package Company. (See Siscoe, O. L., assignor.)  
 Universal Safety Elevator Locking Device Co. (See Albert, J. T., assignor.)  
 Universal Tractor Company. (See Espe, A. O., assignor.)  
 Universal Wind Shield Company. (See Parizek, F., assignor.)  
 Unkefer, G. R. (See Bradley and Unkefer.)  
 Unser, G. (See Cowell and Unser.)  
 Unsinger, P. H., Fremont, Ohio. Safety-razor. No. 912,633; Feb. 16; Sp. p. 3331; Gaz. vol. 139; p. 597.  
 Unsinger, P. H., Fremont, Ohio. Safety-razor. No. 932,518; Aug. 31; Sp. p. 6108; Gaz. vol. 145; p. 1059.  
 Unterberg, G. A., Karlsruhe-Mühlberg, Germany. Apparatus for the magnetic ignition in explosion-motors. No. 909,483; Jan. 12; Sp. p. 2125; Gaz. vol. 138; p. 377.  
 Untiedt, H., Cassel, Germany. Grate. No. 944,524; Dec. 28; Sp. p. 5376; Gaz. vol. 149; p. 936.  
 Unverzagt, C. H. (See Hamlin, P. M., assignor.)  
 Upham, B. F., Boston, Mass. Printing-press. No. 909,260; Jan. 12; Sp. p. 1689; Gaz. vol. 138; p. 304.



*Alphabetical list of patentees—Continued.*

- Upham, B. F., Boston, Mass. Fastener for securing printing-plates to type-beds. No. 921,753; May 18; Sp. p. 3413; Gaz. vol. 142; p. 608.  
 Upham, B. F., Boston, Mass. Printing-press. No. 931,099; Aug. 17; Sp. p. 3105; Gaz. vol. 145; p. 544.  
 Upham, B. F., assignor to Southgate Machinery Co., Boston, Mass. Bending electrototype-plates. No. 909,832; Jan. 12; Sp. p. 2806; Gaz. vol. 138; p. 495.  
 Upham, J. S., U. S. Army. Gun-cleaning implement. No. 937,729; Oct. 19; Sp. p. 4439; Gaz. vol. 147; p. 753.  
 Upham, S. R., *et al.* (See Nielsen, O., assignor.)  
 Upshaw, F., Collinsville, Tex. Cultivator. No. 936,961; Oct. 12; Sp. p. 2826; Gaz. vol. 147; p. 471.  
 Upson, E. L., and F. J. Dole, Brooklyn, N. Y. Conduit-rod. No. 911,854; Feb. 9; Sp. p. 1618; Gaz. vol. 139; p. 300.  
 Upson, M. M., New York, N. Y., assignor to Raymond Concrete Pile Company, Chicago, Ill. Retaining-wall. No. 938,091; Oct. 26; Sp. p. 5210; Gaz. vol. 147; p. 895.  
 Upton, A. T., Mount Vernon, Ill. Device for seizing and holding chickens and the like. No. 918,613; Apr. 20; Sp. p. 3379; Gaz. vol. 141; p. 612.  
 Upton, H. J., Somerville, assignor to Davidson Rubber Company, Boston, Mass. Fountain-pen. No. 939,456; Nov. 9; Sp. p. 2246; Gaz. vol. 148; p. 373.  
 Upton, W. B. (See Boyle and Upton.)  
 Urban, A. G., assignor to A. M. Pleasant, Windber, Pa. Rail-joint. No. 920,887; May 4; Sp. p. 1624; Gaz. vol. 142; p. 259.  
 Urban, C., London, England. Kinematograph feed mechanism. No. 934,242; Sept. 14; Sp. p. 2588; Gaz. vol. 146; p. 428.  
 Urban Construction Company. (See Wilcox, E. F., assignor.)  
 Urban, H. A. (See Urban, H. S. assignor.)  
 Urban, H. S., assignor of one-half to H. A. Urban, Anderson, Ind. Handle for shovels and the like. No. 937,894; Oct. 26; Sp. p. 4785; Gaz. vol. 147; p. 827.  
 Urbanek, J. P., Seattle, Wash. Faucet. No. 931,528; Aug. 17; Sp. p. 4004; Gaz. vol. 145; p. 690.  
 Urbanick, J., Argyle, Minn. Lawn-mower. No. 908,711; Jan. 5; Sp. p. 598; Gaz. vol. 138; p. 93.  
 Urbscheit, A., assignor to A. Haendler, Berlin, Germany. Spiral drill. No. 932,071; Aug. 24; Sp. p. 5210; Gaz. vol. 145; p. 889.  
 Urch, D., Portsmouth, N. H. Marine propeller. No. 942,966; Dec. 14; Sp. p. 2048; Gaz. vol. 149; p. 355.  
 Urgelles, J. M., Baracoa, Cuba. Drier. No. 934,772; Sept. 21; Sp. p. 3611; Gaz. vol. 146; p. 629.  
 Urle, G. M., Kansas City, Mo. Memorandum attachment for telephones. No. 933,277; Sept. 7; Sp. p. 568; Gaz. vol. 146; p. 87.  
 Urie, W. T., Kansas City, Mo. Boat. No. 939,878; Nov. 9; Sp. p. 3135; Gaz. vol. 148; p. 517.  
 Urmston, T. R., Cincinnati, Ohio. Flask-heater. No. 915,510; Mar. 16; Sp. p. 3808; Gaz. vol. 140; p. 662.  
 Urquhart, A., Coquilla, Oreg. Forming weather-boardings. No. 925,401; June 15; Sp. p. 4831; Gaz. vol. 143; p. 826.  
 Urquhart, W. E., Moscow, Idaho. Refrigerator. No. 933,141; Sept. 7; Sp. p. 212; Gaz. vol. 146; p. 36.  
 Ursbruck, F. C., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 913,587; Feb. 23; Sp. p. 5308; Gaz. vol. 139; p. 939.  
 Ursbruck, J. B. (See Ursbruck, J. H. and J. B.)  
 Ursbruck, J. H. and J. B., assignors of one-fourth to J. A. Hunter and one-fourth to M. A. Hunter, Philadelphia, Pa. Shoe-sewing machine. No. 924,019; June 8; Sp. p. 2020; Gaz. vol. 143; p. 335.  
 Ursbruck, J. H. and J. B., assignors of one-fourth to J. A. Hunter and one-fourth to M. A. Hunter, Philadelphia, Pa. Shoe-sewing machine. No. 944,751; Dec. 28; Sp. p. 5879; Gaz. vol. 149; p. 1013.  
 Urschel, W. E., Valparaiso, Ind. Berry-stem remover. No. 918,933; Apr. 20; Sp. p. 4107; Gaz. vol. 141; p. 720.  
 Usher, C. H., assignor to Lamb Knitting Machine Company, Chicopee Falls, Mass. Fashioning device for straight-knitting machines. No. 928,229; July 13; Sp. p. 3150; Gaz. vol. 144; p. 537.  
 Usher, J. E., Elza, Ga. Churn. No. 917,978; Apr. 13; Sp. p. 2061; Gaz. vol. 141; p. 373.  
 Usina, E. A., Newtonville, Mass. Belting. No. 911,855; Feb. 9; Sp. p. 1621; Gaz. vol. 139; p. 300.  
 Usine Genevoise de Degrossissage D'Or. (See Lacroix, H., assignor.)  
 Uslaner, S., Paterson, N. J. Trolley-car switch-controller. No. 926,150; June 29; Sp. p. 6412; Gaz. vol. 143; p. 1138.  
 Utard, E., and A. Gimonet, assignors to H. & G. Klotz & Co., New York, N. Y. Machine for washing bottles. No. 932,193; Aug. 24; Sp. p. 5461; Gaz. vol. 145; p. 930.  
 Utica Drop Forge & Tool Company. (See Kelleman, H. F., assignor.)  
 Utica Industrial Company. (See Graham, C. W., assignor.)  
 Utility Manufacturing Company. (See Henry, J. A., assignor.)  
 Utne, P., New York, N. Y., assignor to Union Switch & Signal Company, Swissvale, Pa. Apparatus for control of railway-trains. No. 919,982; Apr. 27; Sp. p. 6452; Gaz. vol. 141; p. 1103.  
 Utt, D. B., Newcastle, Ind. Signal. No. 924,403; June 8; Sp. p. 2836; Gaz. vol. 143; p. 462.  
 Utz, E., Wichita, Kans. Grinding-mill. No. 926,305; June 29; Sp. p. 6740; Gaz. vol. 143; p. 1188.  
 V. L. Ney Company. (See Ney, J., assignor.)  
 Vaage, H. H., Brooklyn, N. Y. Water-gage. No. 939,763; Nov. 9; Sp. p. 2918; Gaz. vol. 148; p. 479.  
 Vaaler, J., assignor to Clemetsen Company, Chicago, Ill. Type-writer desk. No. 934,861; Sept. 21; Sp. p. 3790; Gaz. vol. 146; p. 658.  
 Vacher, F., New York, N. Y. Tire-protector. No. 942,682; Dec. 7; Sp. p. 1345; Gaz. vol. 149; p. 221.  
 Vacuum Engineering Company. (See Locke and Dunn, assignors.)  
 Vacuum Engineering Company. (See Williams, D. T., assignor.)  
 Vader, L., Pittsfield, Mass. Wrench. No. 911,924; Feb. 9; Sp. p. 1750; Gaz. vol. 139; p. 324.  
 Vaghi, J., Bethel, Conn. Convertible boat and tent. No. 931,529; Aug. 17; Sp. p. 4005; Gaz. vol. 145; p. 690.  
 Vaghi, J., Bethel, Conn. Ladder. No. 942,683; Dec. 7; Sp. p. 1346; Gaz. vol. 149; p. 221.  
 Vail and Hunt Company. (See Hunt, O. R., assignor.)  
 Vail, I. H. (See Lagergren C., assignor.)  
 Vail, J. M., Bryan, Ohio. Rail-clamp. No. 911,686; Feb. 9; Sp. p. 1323; Gaz. vol. 139; p. 246.  
 Vail, J. M., Bryan, Ohio. Rail-stay. No. 912,334; Feb. 16; Sp. p. 2710; Gaz. vol. 139; p. 494.  
 Vail, J. M., Bryan, Ohio. Combined rail-stay and brace. No. 917,815; Apr. 13; Sp. p. 1718; Gaz. vol. 141; p. 316.  
 Vail, J. M., Bryan, Ohio. Rail-stay. No. 921,919; May 18; Sp. p. 3761; Gaz. vol. 142; p. 663.  
 Vail, J. R., *et al.* (See Pfister, C. J., assignor.)  
 Vail, P. E., Chariton, Iowa. Railway-switch. No. 943,053; Dec. 14; Sp. p. 2230; Gaz. vol. 149; p. 378.  
 Vail, W. J., Chicago, Ill. Windlass. No. 919,093; Apr. 20; Sp. p. 4411; Gaz. vol. 141; p. 771.  
 Vail, E. W., Jr., Englewood, N. J. Pendulum-actuated clock. No. 940,410; Nov. 16; Sp. p. 4382; Gaz. vol. 148; p. 733.  
 Vaitauer, A., assignor of one-half to C. M. Maier, New Orleans, La. Switch-operating apparatus. No. 929,522; July 27; Sp. p. 5823; Gaz. vol. 144; p. 1023.  
 Vale, D. G., Salem township, Meigs county, Ohio. Self-lighting cigar. No. 941,966; Nov. 30; Sp. p. 7722; Gaz. vol. 148; p. 1300.  
 Vale, R. R., executor. (See Kimsey, J. C.)  
 Valenti, M., Washington, D. C. Nut-lock. No. 916,634; Mar. 30; Sp. p. 6054; Gaz. vol. 140; p. 1085.  
 Valentine, L., Philadelphia, Pa. Adjustable book-rest. No. 916,066; Mar. 23; Sp. p. 4928; Gaz. vol. 140; p. 873.  
 Valentine, L. R., Denver, Colo. Wheel-coaster. No. 928,716; July 20; Sp. p. 4180; Gaz. vol. 144; p. 728.  
 Valentine, R. E., Worcester, Mass. Drying mechanism. No. 923,092; May 25; Sp. p. 6177; Gaz. vol. 142; p. 1072.  
 Valentine, R. N., *et al.*, executors. (See Berg, W. G.)  
 Valentine, W. D., Altadena, Cal. Flying-machine. No. 911,784; Feb. 9; Sp. p. 1489; Gaz. vol. 139; p. 278.  
 Valentine, W. F., Leominster, Mass. Exercising apparatus. No. 931,818; Aug. 24; Sp. p. 4650; Gaz. vol. 145; p. 805.  
 Valentiner, F. S., assignor to Valentiner and Schwarz, Leipzig-Plagwitz, Germany. Manufacturing nitric acid. No. 920,224; May 4; Sp. p. 271; Gaz. vol. 142; p. 43.  
 Valentiner and Schwarz. (See Valentiner, F. S., assignor.)  
 Valerius, T. L., Fort Atkinson, Wis., assignor to Creamery Package Manufacturing Company, Chicago, Ill. Cream-ripeners. No. 933,934; Sept. 14; Sp. p. 1977; Gaz. vol. 146; p. 326.  
 Valerius, T. L., Fort Atkinson, Wis., assignor to Creamery Package Mfg. Company, Chicago, Ill. Manufacturing ice-cream. No. 916,067; Mar. 23; Sp. p. 4930; Gaz. vol. 140; p. 874.  
 Valiquet, B., Chicago, Ill. Street-cleaning and conveying machine. No. 944,705; Dec. 28; Sp. p. 5759; Gaz. vol. 149; p. 997.  
 Valiquet, L. P., Newark, N. J., assignor, by mesne assignments, to Hawthorne & Sheble Manufacturing Company, Philadelphia, Pa. Talking-machine. No. 914,765; Mar. 9; Sp. p. 2342; Gaz. vol. 140; p. 393.  
 Valiquet, L. P., assignor to Complex Aural Company, Newark, N. J. Talking-machine. No. 938,185; Oct. 26; Sp. p. 5425; Gaz. vol. 147; p. 926.  
 Valk, J., Topeka, Kans. Centrifugal pump. No. 933,681; Sept. 7; Sp. p. 1463; Gaz. vol. 146; p. 220.  
 Vallance, W. E. (See Heininger and Vallance.)  
 Valle y Zeno, V. M. del, San Juan, Porto Rico. Wrist-developer and strength-tester. No. 911,925; Feb. 9; Sp. p. 1751; Gaz. vol. 139; p. 324.  
 Vallée, E. A. A., and A. Helbronner, Paris, France. Treatment of osseins. No. 914,996; Mar. 9; Sp. p. 2759; Gaz. vol. 140; p. 466.  
 Vallette, W. M., San Francisco, Cal. Rubber-roller car-fender. No. 921,316; May 11; Sp. p. 2501; Gaz. vol. 142; p. 434.  
 Valley, G., Malmö, Sweden. Chalice. No. 939,960; Nov. 9; Sp. p. 3319; Gaz. vol. 148; p. 547.  
 Valois, F. E., Haverhill, Mass. Looper mechanism for sewing-machines. No. 931,352; Aug. 17; Sp. p. 3668; Gaz. vol. 145; p. 633.

*Alphabetical list of patentees—Continued.*

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 Valveless Limited. (See Lucas, R., assignor.)  
 Vally, M. A., Chicago, Ill. Beater. No. 931,100; Aug. 17; Sp. p. 3106; Gaz. vol. 145; p. 545.  
 Van Aken, J. C., Ridgway, Pa. Flower-holding and grave-covering device. No. 919,655; Apr. 27; Sp. p. 5783; Gaz. vol. 141; p. 994.  
 Van Akin, S. L., Jr. (See Eccles, H., assignor.)  
 Van Aller, T., Schenectady, N. Y., assignor to General Electric Company. Electric oven. No. 917,195; Apr. 6; Sp. p. 479; Gaz. vol. 141; p. 84.  
 Van Aller, T., Schenectady, N. Y., assignor to General Electric Company. Electric soldering-iron. No. 925,056; June 15; Sp. p. 4198; Gaz. vol. 143; p. 715.  
 Van Altena, H., Somerset county, N. J. Parallel-ruler. No. 933,798; Sept. 14; Sp. p. 1698; Gaz. vol. 146; p. 282.  
 Van Arsdale, J. H., assignor of one-half to H. Luedinghaus, Jr., St. Louis, Mo. Vehicle-wheel. No. 934,773; Sept. 21; Sp. p. 3613; Gaz. vol. 146; p. 630.  
 Van Auken, B. E., Chicago, Ill. Water-of-condensation-cleaning apparatus. No. 909,484; Jan. 12; Sp. p. 2126; Gaz. vol. 138; p. 377.  
 Van Auken, C. E., assignor to Van Auken Motor & Machine Works, Bridgeport, Conn. Fastening for connecting-rod pins. No. 913,785; Mar. 2; Sp. p. 233; Gaz. vol. 140; p. 39.  
 Van Auken Motor & Machine Works. (See Van Auken, C. E., assignor.)  
 Van Beresteyn, H. (See Plumen, J. H., assignor.)  
 Van Berkel, W. A., Rotterdam, Netherlands. Device for sharpening the rotary circular knives of meat-slicing machines. No. 916,229; Mar. 23; Sp. p. 5238; Gaz. vol. 140; p. 925.  
 Van Berkel, W. A., Rotterdam, Netherlands. Meat-slicing machine. No. 920,506; May 4; Sp. p. 834; Gaz. vol. 142; p. 134.  
 Van Blarcom, J., Paterson, N. J. Whip-socket. No. 930,577; Aug. 10; Sp. p. 1962; Gaz. vol. 145; p. 345.  
 Van Boven, L. B., Watergraafsmeer, near Amsterdam, Netherlands. Indicator-coupling. No. 943,127; Dec. 14; Sp. p. 2374; Gaz. vol. 149; p. 403.  
 Van Brunt, A., New York, N. Y. Stamping-machine. No. 937,661; Oct. 19; Sp. p. 4279; Gaz. vol. 147; p. 730.  
 Van Buren, C. G., Provo, Utah. Binder for loose-leaf books. No. 931,816; Aug. 24; Sp. p. 4647; Gaz. vol. 145; p. 805.  
 Van Buren, C. J., Cambridge, N. Y., and L. A. Krupp, Carey, Ohio. Ditching-machine. No. 929,732; Aug. 3; Sp. p. 197; Gaz. vol. 145; p. 35.  
 Van Buren, H., Philadelphia, Pa. Combined gas-burner and water-heater for ranges. No. 911,347; Feb. 2; Sp. p. 634; Gaz. vol. 139; p. 108.  
 Van Buren, W. M., *et al.* (See Gordon, C. H., assignor.)  
 Van Camp, E. (See Van Camp, F., Sr., and E.)  
 Van Camp, F., Sr., and E., St. Thomas, N. D. Grain-door. No. 908,523; Jan. 5; Sp. p. 191; Gaz. vol. 138; p. 33.  
 Van Camp, F. W., Thousand Island Park, N. Y. Device for holding cut-out forms. No. 919,500; Apr. 27; Sp. p. 5487; Gaz. vol. 141; p. 942.  
 Van Cantfort, V. E., Akron, Ohio. Tire. No. 934,639; Sept. 21; Sp. p. 3361; Gaz. vol. 146; p. 585.  
 Van Cantfort, V. E., Akron, Ohio. Vehicle-wheel. No. 936,587; Oct. 12; Sp. p. 2082; Gaz. vol. 147; p. 345.  
 Van Cleave, R. A., Philadelphia, Pa. Nursing-bottle. No. 927,013; July 6; Sp. p. 640; Gaz. vol. 144; p. 104.  
 Van Cott, F. J., Unadilla, N. Y. Silo. No. 939,355; Nov. 9; Sp. p. 2011; Gaz. vol. 148; p. 339.  
 Van Denburgh, S. V., and J. H. Glismann, Syracuse, N. Y. Douche-cabinet. No. 920,225; May 4; Sp. p. 272; Gaz. vol. 142; p. 43.  
 Van Denburgh, S. V., and J. H. Glismann, Syracuse, N. Y. Rubber spading-boot. No. 928,718; July 20; Sp. p. 4183; Gaz. vol. 144; p. 729.  
 Van der Harst, J. W. C. (See Gaudron, E. B., assignor.)  
 Van der Hoek, B. (See Schatz and Van der Hoek.)  
 Van Dervort, A. O., Troy, N. Y. Bell-ringer. No. 926,444; June 29; Sp. p. 7008; Gaz. vol. 143; p. 1234.  
 Van Dervort, A. O., Troy, N. Y. Radius-grinder. No. 944,300; Dec. 28; Sp. p. 4859; Gaz. vol. 149; p. 857.  
 Van Deventer & Company, C. (See Bassler, E. M., assignor.)  
 Van Dillen, J. T. (See Coe, C. E., assignor.)  
 Van Dine, E. E., Elmira, N. Y. Music-turner. No. 940,219; Nov. 16; Sp. p. 3932; Gaz. vol. 148; p. 663.  
 Van Dolsen, E. L., Berwyn, assignor to Western Electric Company, Chicago, Ill. Electrical heating apparatus. No. 908,712; Jan. 5; Sp. p. 599; Gaz. vol. 138; p. 93.  
 Van Dolsen, E. L., assignor of one-half to T. J. Dolan, Berwyn, Ill. Wheel for traction-engines. No. 914,324; Mar. 2; Sp. p. 1425; Gaz. vol. 140; p. 220.  
 Van Dorn Electric and Manufacturing Company. (See Hafemeister, W. C., assignor.)  
 Van Duzee, H. (See Taylor and Van Duzee.)  
 Van Dyck Gravure Company. (See Saalburg, C. W., assignor.)  
 Van Dyck Gravure Company. (See Van Middlesworth, C., assignor.)  
 Van Dyke, J. M., and F. R. Rowell, Canastota, N. Y. Transmission-gearing. No. 921,754; May 18; Sp. p. 3414; Gaz. vol. 142; p. 608.  
 Van Dyke, J. M., and F. R. Rowell, Canastota, N. Y. Clutch. No. 924,404; June 8; Sp. p. 2838; Gaz. vol. 143; p. 463.  
 Van Dyke, R. B., Anderson, Ind. Mechanism for feeding envelopes. No. 921,185; May 11; Sp. p. 2224; Gaz. vol. 142; p. 391.  
 Van Dyne, J. R., Sedalia, Mo. Disinfecting apparatus. No. 931,817; Aug. 24; Sp. p. 4648; Gaz. vol. 145; p. 805.  
 Van Eys, W. B., Rochester, N. Y. Scalp-sprayer. No. 910,884; Jan. 26; Sp. p. 5016; Gaz. vol. 138; p. 903.  
 Van Eyck, G., Oeflingen, Germany. Sterilization vessel. No. 936,767; Oct. 12; Sp. p. 2446; Gaz. vol. 147; p. 407.  
 Van Fossen, W. H., assignor of one-half to N. B. Crawford, Eureka, Ill. Mail-bag-delivery apparatus. No. 916,902; Mar. 30; Sp. p. 6543; Gaz. vol. 140; p. 1168.  
 Van Guelpen, O. H., New York, N. Y. Candelabrum. No. 941,213; Nov. 23; Sp. p. 6118; Gaz. vol. 148; p. 1026.  
 Van Heusen, R. F., New York, N. Y. Hygienic shoe-tree. No. 921,570; May 11; Sp. p. 3019; Gaz. vol. 142; p. 518.  
 Van Hoozenberg, H., Lake Placid, N. Y. Combination locking mechanism. No. 943,493; Dec. 14; Sp. p. 3128; Gaz. vol. 149; p. 528.  
 Van Hoesebeke, C., *et al.* (See Hamilton, J. L., assignor.)  
 Van Horn, F. E. (See Van Horn, W. E. and F. E.)  
 Van Horn, W. E. and F. E., El Centro, Cal. Push or buck rake. No. 936,197; Oct. 5; Sp. p. 1244; Gaz. vol. 147; p. 188.  
 Van Horn, W. W., Shelby, Ohio. Signal mechanism. No. 936,835; Oct. 12; Sp. p. 2579; Gaz. vol. 147; p. 430.  
 Van Horne, C., Chicago, Ill. Table. No. 915,910; Mar. 23; Sp. p. 4634; Gaz. vol. 140; p. 822.  
 Van Horne, C., Chicago, Ill. Table. No. 943,718; Dec. 21; Sp. p. 3648; Gaz. vol. 149; p. 634.  
 Van Horne, C. F., *et al.* (See Ross, J. F., assignor.)  
 Van Houten, F. H., assignor to Dutchess Tool Company, Fishkill-on-the-Hudson, N. Y. Dough molding or shaping machine. No. 942,153; Dec. 7; Sp. p. 278; Gaz. vol. 149; p. 42.  
 Van Houten, F. H., Jr., assignor to Dutchess Tool Company, Fishkill-on-the-Hudson, N. Y. Machine for rounding up lumps of dough in the manufacture of bread. No. 942,154; Dec. 7; Sp. p. 280; Gaz. vol. 149; p. 43.  
 Van Houten, F. H., and H. M. Bachman, assignors to Dutchess Tool Company, Fishkill-on-the-Hudson, N. Y. Beating and mixing machine. No. 942,116; Dec. 7; Sp. p. 189; Gaz. vol. 149; p. 28.  
 Van Huffel, I. J., Jr., Mishawaka, Ind. Adjustable work-holder. No. 933,799; Sept. 14; Sp. p. 1699; Gaz. vol. 146; p. 282.  
 Van Kempen, A., Berlin, Germany. Measure-indicating tag for fabrics. No. 917,913; Apr. 13; Sp. p. 1928; Gaz. vol. 141; p. 349.  
 Van Kirk, L. R., San Francisco, Cal. Shoe-cleaner. No. 921,485; May 11; Sp. p. 2858; Gaz. vol. 142; p. 492.  
 Van Landingham, L. E., Paris, Tex. Clothes-pounder. No. 935,949; Oct. 5; Sp. p. 743; Gaz. vol. 147; p. 110.  
 Van Liew, A. M. (See Van Liew, J. and A. M.)  
 Van Liew, A. M., assignor of one-half to J. Van Liew, Houghton, Mich. Miner's lamp. No. 934,243; Sept. 14; Sp. p. 2589; Gaz. vol. 146; p. 429.  
 Van Liew, J. (See Van Liew, A. M., assignor.)  
 Van Liew, J. and A. M., Houghton, Mich. Miner's lamp. No. 941,897; Nov. 30; Sp. p. 7589; Gaz. vol. 148; p. 1277.  
 Van Loozen Automatic Printing Press Company. (See Van Loozen, F. H., assignor.)  
 Van Loozen, F. H., assignor to Van Loozen Automatic Printing Press Company, Cleveland, Ohio. Printing-press. No. 928,525; July 20; Sp. p. 3791; Gaz. vol. 144; p. 665.  
 Van Loozen, F. H., assignor to Van Loozen Automatic Printing Press Company, Cleveland, Ohio. Printing-press. No. 933,006; Aug. 31; Sp. p. 7092; Gaz. vol. 145; p. 1220.  
 Van Luven, M. E., Oakland, Cal. Egg-case. No. 912,922; Feb. 16; Sp. p. 3920; Gaz. vol. 139; p. 691.  
 Van Matre, J., Paso Robles, Cal. Draft-equalizer. No. 937,895; Oct. 26; Sp. p. 4786; Gaz. vol. 147; p. 827.  
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 Van Meter, A. A., assignor of one-half to F. H. Howard, Harrisonville, Mo. Platform-scale. No. 921,920; May 18; Sp. p. 3763; Gaz. vol. 142; p. 663.  
 Van Middlesworth, C., Brooklyn, assignor to Van Dyck Gravure Company, New York, N. Y. Printing-press attachment. No. 935,339; Sept. 28; Sp. p. 4763; Gaz. vol. 146; p. 843.  
 Van Middlesworth, C., Brooklyn, assignor to Van Dyck Gravure Company, New York, N. Y. Paper-cutting device. No. 935,340; Sept. 28; Sp. p. 4766; Gaz. vol. 146; p. 843.  
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- Van Nest, W. H. (See Buchmaier, H. C., assignor.)
- Van Niekirk, J. W., Oshkosh, Nebr. Wire-gate fastener. No. 915,511; Mar. 16; Sp. p. 3808; Gaz. vol. 140; p. 662.
- Van Niekerk, J. (See Dawson, B. F. H., assignor.)
- Van Noorden, E., assignor to E. Van Noorden Company, Boston, Mass. Mechanism for operating windows or shutters. No. 931,239; Aug. 17; Sp. p. 3419; Gaz. vol. 145; p. 593.
- Van Norman, C. E., Springfield, Mass. Metal-working machinery. No. 938,803; Nov. 2; Sp. p. 758; Gaz. vol. 148; p. 122.
- Van Norstran, E. M. (See Pumpelly, J. K., assignor.)
- Van Nort, J. L., St. Louis, Mo. Self-propelled vehicle. No. 917,684; Apr. 6; Sp. p. 1398; Gaz. vol. 141; p. 246.
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- Van Nostrand, C. H., Orange, N. J. Gasket or packing. No. 916,805; Mar. 30; Sp. p. 6354; Gaz. vol. 140; p. 1136.
- Van Nostrand, H. L., Tekamah, Nebr. Tube. No. 941,745; Nov. 30; Sp. p. 7253; Gaz. vol. 148; p. 1223.
- Van Ormer, L. G., Trafford, Pa. Wrench. No. 939,879; Nov. 9; Sp. p. 3137; Gaz. vol. 148; p. 518.
- Van Otteren, N. C., Grand Rapids, Mich. Bottle and ticket holder. No. 917,914; Apr. 13; Sp. p. 1929; Gaz. vol. 141; p. 349.
- Van Patten, J. W., Chetek, Wis. Revolving ribbon-cabinet. No. 934,774; Sept. 21; Sp. p. 3614; Gaz. vol. 146; p. 630.
- Van Pelt, J. B. (See Dewein, Roberts, and Van Pelt.)
- Van Pelt, T. J., State Center, Iowa. Gate. No. 915,911; Mar. 23; Sp. p. 4635; Gaz. vol. 140; p. 822.
- Van Pelt, T. J., State Center, Iowa. Automobile carriage. No. 933,007; Aug. 31; Sp. p. 7098; Gaz. vol. 145; p. 1220.
- Van Rensselaer, C. H., Philadelphia, Pa. Powder-distributor and closure for bottles, cans, etc. No. 914,766; Mar. 9; Sp. p. 2345; Gaz. vol. 140; p. 393.
- Van Riper, G. T., Freeport, N. Y. Clothes-line hanger. No. 941,898; Nov. 30; Sp. p. 7591; Gaz. vol. 148; p. 1278.
- Van Riper, L. C., New York, N. Y. Envelop. No. 937,490; Oct. 19; Sp. p. 3970; Gaz. vol. 147; p. 674.
- Van Riper, L. C., New York, N. Y. Envelop. No. 941,392; Nov. 30; Sp. p. 6509; Gaz. vol. 148; p. 1106.
- Van Scooter, W., Buffalo, N. Y. Water-wheel. No. 941,474; Nov. 30; Sp. p. 6688; Gaz. vol. 148; p. 1133.
- Van Sickle, W. H., Philadelphia, Pa., assignor to Thos. H. Dallett Co. Pneumatic tool. No. 934,640; Sept. 21; Sp. p. 3363; Gaz. vol. 146; p. 585.
- Van Sickle, W. H., Jr., Amsterdam, N. Y. Machine for removing stems from broom-corn. No. 925,615; June 22; Sp. p. 5271; Gaz. vol. 143; p. 926.
- Van Slyck, F. W., Mount Vernon, N. Y. Combined match box and scratcher. No. 909,969; Jan. 19; Sp. p. 3107; Gaz. vol. 138; p. 575.
- Van Slyke, J. R. (See Gracey, J. G., assignor.)
- Van Swieten, T. H. M., Hilversum, near Amsterdam, Netherlands. Gearing. No. 927,385; July 6; Sp. p. 1365; Gaz. vol. 144; p. 227.
- Van Syckle, L. H., Fort Lee, N. J. Tellurian. No. 913,074; Feb. 23; Sp. p. 4234; Gaz. vol. 139; p. 767.
- Van Valkenburg, H. L. (See Walker and Van Valkenburg.)
- Van Valkenburg, H. L., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Oil-switch. No. 922,825; May 25; Sp. p. 5629; Gaz. vol. 142; p. 986.
- Van Valkenburg, H. L., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. System of distribution. No. 933,211; Sept. 7; Sp. p. 402; Gaz. vol. 146; p. 63.
- Van Valkenburg, H. L., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Automatic voltage-regulator. No. 922,218; May 18; Sp. p. 4377; Gaz. vol. 142; p. 760.
- Van Valkenburg, H. L., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Automatic voltage-regulator. No. 922,219; May 18; Sp. p. 4384; Gaz. vol. 142; p. 761.
- Van Valkenburg, H. L., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Measuring instrument. No. 922,362; May 18; Sp. p. 4636; Gaz. vol. 142; p. 805.
- Van Valkenburg, H. L., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Electrical indicating instrument. No. 925,403; June 15; Sp. p. 4833; Gaz. vol. 143; p. 827.
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- Van Vleck, C. E. (See Whitlatch, M., assignor.)
- Van Vliet, L., Pomona, Cal. Gas-generator. No. 937,341; Oct. 19; Sp. p. 3634; Gaz. vol. 147; p. 624.
- Van Voorhis, G. S., Boston, Mass. Removable rim for vehicle-wheels. No. 934,862; Sept. 21; Sp. p. 3793; Gaz. vol. 146; p. 658.
- Van Wagnen, G. (See Shoemaker, G. A., assignor.)
- Van Wagner, E. B., Syracuse, N. Y. Casting apparatus. No. 924,858; June 15; Sp. p. 3792; Gaz. vol. 143; p. 648.
- Van Wart, G. L., Waterville, Conn. Electric lamp. No. 936,747; Oct. 12; Sp. p. 2407; Gaz. vol. 147; p. 400.
- Van Wie, W., East Oakland, Cal. Counterbalance-hoist with adjustable counterweight. No. 909,970; Jan. 19; Sp. p. 3108; Gaz. vol. 138; p. 575.
- Van Wie, W., Oakland, Cal. Adjustable counterbalance radius-crane. No. 911,093; Feb. 2; Sp. p. 139; Gaz. vol. 139; p. 26.
- Van Wie, W., Oakland, Cal. Adjustable counterbalance pivot-crane. No. 911,632; Feb. 9; Sp. p. 1204; Gaz. vol. 139; p. 228.
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- Van Wie, W., Oakland, Cal. Spring-relief coaster. No. 913,786; Mar. 2; Sp. p. 235; Gaz. vol. 140; p. 39.
- Van Wie, W., Oakland, Cal. Wrench. No. 916,507; Mar. 30; Sp. p. 5823; Gaz. vol. 140; p. 1045.
- Van Winkle, A., assignor to Hanson & Van Winkle Co., Newark, N. J. Electrolyte. No. 930,815; Aug. 10; Sp. p. 2450; Gaz. vol. 145; p. 424.
- Van Winkle, K. R., Hillsboro, Iowa. Plow attachment. No. 936,962; Oct. 12; Sp. p. 2827; Gaz. vol. 147; p. 471.
- Van Winkle, W. H., New York, N. Y. Machine for tapping mains. No. 921,629; May 11; Sp. p. 1901; Gaz. vol. 142; p. 337.
- Van Wormer, A., assignor to Horton Manufacturing Company, Fort Wayne, Ind. Gearing for washing-machines. No. 939,645; Nov. 9; Sp. p. 2651; Gaz. vol. 148; p. 438.
- Van Wormer, C. C. (See Tuthill and Van Wormer.)
- Van Wormer, J. R., Toledo, Ohio. Paper-box-blank machine. No. 939,571; Nov. 9; Sp. p. 2482; Gaz. vol. 148; p. 411.
- Van Wye, G. P., New York, N. Y. Vacuum-insulated bottle. No. 917,816; Apr. 13; Sp. p. 1719; Gaz. vol. 141; p. 317.
- Van Wye, G. P., New York, N. Y. Stopper for vacuum-bottles. No. 918,246; Apr. 13; Sp. p. 2625; Gaz. vol. 141; p. 464.
- Van Wye, G. P., assignor to W. B. Morrison, New York, N. Y. Vacuum-insulated bottle. No. 922,363; May 18; Sp. p. 4639; Gaz. vol. 142; p. 806.
- Van Wye, G. P., Chicago, Ill., assignor to W. B. Morrison, New York, N. Y. Vacuum-insulated bottle. No. 922,364; May 18; Sp. p. 4640; Gaz. vol. 142; p. 806.
- Van Zandt, J. H., and W. E. Thacher, Fort Worth, Tex. Flushing-cistern for closet-bowls. No. 935,341; Sept. 28; Sp. p. 4769; Gaz. vol. 146; p. 843.
- Van Zeck. (See Zeck and Van Zeck.)
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- Van Zoelen, R. F. O. G., Helder, Netherlands. Lubricating device. No. 943,959; Dec. 21; Sp. p. 4139; Gaz. vol. 149; p. 717.
- Vanaman, H. R., Millville, N. J. Bottle-cap. No. 917,196; Apr. 6; Sp. p. 481; Gaz. vol. 141; p. 84.
- Vanaman, W. R. (See Sharp and Vanaman.)
- Vanaman, W. R., Atlantic City, N. J. Combined fuse and switch box. No. 923,466; June 1; Sp. p. 795; Gaz. vol. 143; p. 118.
- Vanaman, W. R., Atlantic City, N. J. Locking attachment for fuse-boxes. No. 934,950; Sept. 21; Sp. p. 3969; Gaz. vol. 146; p. 689.
- Vance, A., Kennewick, Wash. Comb-rack. No. 936,196; Oct. 5; Sp. p. 1243; Gaz. vol. 147; p. 188.
- Vance, E. P., et al. (See Ward and Davidson, assignors.)
- Vance, W. N., Waukegan, Ill. Locker-hook. No. 928,717; July 20; Sp. p. 4182; Gaz. vol. 144; p. 729.
- Vandegrift, J. N., Bryn Mawr, Pa. Motor-cycle-railway system. No. 936,682; Oct. 12; Sp. p. 2283; Gaz. vol. 147; p. 379.
- Vandegrift, J. N., Bryn Mawr, Pa. Motor-cycle-railway system. No. 936,683; Oct. 12; Sp. p. 2287; Gaz. vol. 147; p. 379.
- Vandenbroek, J. C. (See Jones, I. N., assignor.)
- Vander Toorn, W. H. J., Flushing, Netherlands. Bench-plane. No. 917,915; Apr. 13; Sp. p. 1930; Gaz. vol. 141; p. 349.
- Vanderauwera, P., assignor to Webb Wire Works, New Brunswick, N. J. Plate-stand for wire-drawing. No. 922,979; May 25; Sp. p. 5939; Gaz. vol. 143; p. 1036.
- Vanderbeek, H., Hartford, Conn. Universal joint. No. 927,087; July 6; Sp. p. 822; Gaz. vol. 144; p. 131.
- Vanderboos, J. F., Chicago, Ill. Exercising-machine. No. 928,085; July 13; Sp. p. 2860; Gaz. vol. 144; p. 488.
- Vanderoock, F. E., assignor to W. S. Atwood, Waterbury, Conn. Rotary wire-straightener. No. 937,489; Oct. 19; Sp. p. 3968; Gaz. vol. 147; p. 674.
- Vanderford, A. A., Peru, Nebr. Combination garment-hanger. No. 941,115; Nov. 23; Sp. p. 5890; Gaz. vol. 148; p. 992.
- Vanderheyden, M. D., assignor to C. W. Smith, Buffalo, N. Y. Safety device for elevators. No. 911,631; Feb. 9; Sp. p. 1202; Gaz. vol. 139; p. 228.
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- Vanderslice, T. J., Lewiston, Idaho, assignor, by mesne assignments, to L. L. Osborn and M. M. Johnson, Portland, Ore. Water-power machine. No. 921,637; May 11; Sp. p. 3176; Gaz. vol. 142; p. 543.
- Vanderstegen, E., Caversham, near Reading, England. Sash-balance. No. 937,395; Oct. 19; Sp. p. 3752; Gaz. vol. 147; p. 642.
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- Vandervell, C. A., and F. I. Hoffman, London, England. Magneto-electric machine for ignition purposes. No. 939,357; Nov. 9; Sp. p. 2015; Gaz. vol. 148; p. 340.
- Vandewerker, W. R., Clark, S. D. Soap-holder. No. 914,619; Mar. 9; Sp. p. 2028; Gaz. vol. 140; p. 345.
- Vandiver, L. A., assignor to Star Novelty Manufacturing Co., Inc., Chicago, Ill. Spurious-coin detector for vending-machines. No. 920,697; May 4; Sp. p. 1226; Gaz. vol. 142; p. 198.
- Vandiver, L. A., assignor to Star Novelty Mfg. Co., Inc., Chicago, Ill. Cigar-vending machine. No. 942,527; Dec. 7; Sp. p. 1047; Gaz. vol. 149; p. 169.
- Vanes, A. B., Uitenhage, Cape Colony. Lock. No. 915,252; Mar. 16; Sp. p. 3308; Gaz. vol. 140; p. 578.
- Vangezell, E. T., Camden, N. J. Carousel. No. 925,402; June 15; Sp. p. 4832; Gaz. vol. 143; p. 826.
- Vanhorn, R. R. (See Hendershot, J. L., assignor.)
- Vanmanen, W., Grand Rapids, Mich. Roller-bearing. No. 943,128; Dec. 14; Sp. p. 2375; Gaz. vol. 149; p. 403.
- Vannauker, A. H., Hazleton, Pa. Dynamite-heater. No. 911,463; Feb. 2; Sp. p. 834; Gaz. vol. 139; p. 146.
- Vannauker, A. H., Hazleton, Pa. Dynamite-heater. No. 929,902; Aug. 3; Sp. p. 606; Gaz. vol. 145; p. 95.
- Vannort, C. L., Louisville, Ky. Automatic electric-igniter switch. No. 914,537; Mar. 9; Sp. p. 1865; Gaz. vol. 140; p. 317.
- Vanvactor, D. E., Argos, Ind. Machine for threading bands in staves. No. 927,696; July 13; Sp. p. 2072; Gaz. vol. 144; p. 360.
- Vanvactor, D. E., Argos, Ind. Stave-punching machine. No. 928,289; July 20; Sp. p. 3328; Gaz. vol. 144; p. 588.
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- Vapor Heating Company. (See Arnold, J. D., assignor.)
- Vardell, A. A., Dallas, Tex. Doffer. No. 922,545; May 25; Sp. p. 5042; Gaz. vol. 142; p. 895.
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- Varley Duplex Magnet Company. (See Varley, R., assignor.)
- Varley, R., Englewood, N. J., assignor to Autocoil Company. Circuit-controller for explosion-engines. No. 915,388; Mar. 16; Sp. p. 3575; Gaz. vol. 140; p. 622.
- Varley, R., Englewood, N. J., assignor to Autocoil Company. Ignition system for explosion-engines. No. 915,389; Mar. 16; Sp. p. 3578; Gaz. vol. 140; p. 623.
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- Varley, T. W., assignor of one-half to W. S. Rugg, New York, N. Y. Electrical measuring instrument. No. 944,061; Dec. 21; Sp. p. 4361; Gaz. vol. 149; p. 752.
- Varnell, T. R., Emory, Va. Gate-latch. No. 931,163; Aug. 17; Sp. p. 3252; Gaz. vol. 145; p. 567.
- Varney, S., Scarville, Iowa. Hame-fastener. No. 910,031; Jan. 19; Sp. p. 3222; Gaz. vol. 138; p. 594.
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- Varney, T. (See Storer and Varney.)
- Varney, T., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-hanger. No. 931,353; Aug. 17; Sp. p. 3670; Gaz. vol. 145; p. 633.
- Varney, T., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Overhead-line construction for electric railways. No. 931,354; Aug. 17; Sp. p. 3671; Gaz. vol. 145; p. 634.
- Varney, T., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-clamp. No. 931,355; Aug. 17; Sp. p. 3673; Gaz. vol. 145; p. 634.
- Varney, T., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-hanger. No. 931,358; Aug. 17; Sp. p. 3677; Gaz. vol. 145; p. 635.
- Varney, T., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley. No. 932,651; Aug. 31; Sp. p. 6403; Gaz. vol. 145; p. 1105.
- Varney, T., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley for electrical vehicles. No. 932,652; Aug. 31; Sp. p. 6406; Gaz. vol. 145; p. 1106.
- Varney, T., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley. No. 932,653; Aug. 31; Sp. p. 6407; Gaz. vol. 145; p. 1106.
- Varney, T., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Trolley-hanger. No. 931,356; Aug. 17; Sp. p. 3674; Gaz. vol. 145; p. 634.
- Varney, T., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Trolley-clamp. No. 931,357; Aug. 17; Sp. p. 3675; Gaz. vol. 145; p. 635.
- Varney, T., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Section-break insulator. No. 933,800; Sept. 14; Sp. p. 1700; Gaz. vol. 146; p. 282.
- Varney, T., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Strain-insulator. No. 938,092; Oct. 26; Sp. p. 5212; Gaz. vol. 147; p. 895.
- Varney, T., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Trolley. No. 932,654; Aug. 31; Sp. p. 6409; Gaz. vol. 145; p. 1106.
- Varney, T., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Trolley for electric vehicles. No. 932,655; Aug. 31; Sp. p. 6409; Gaz. vol. 145; p. 1106.
- Varney, T., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Trolley for electric vehicles. No. 932,656; Aug. 31; Sp. p. 6411; Gaz. vol. 145; p. 1107.
- Varney, T., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Strain-insulator. No. 937,897; Oct. 26; Sp. p. 4788; Gaz. vol. 147; p. 828.
- Varney, T., and N. W. Storer, Pittsburg, assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Trolley for electric vehicles. No. 932,519; Aug. 31; Sp. p. 6109; Gaz. vol. 145; p. 1060.
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- Varoga, J., Pittsburg, Pa. Milk-can lock. No. 932,194; Aug. 24; Sp. p. 5464; Gaz. vol. 145; p. 930.
- Vasconcellos, E. R., Chicago, Ill. Safety device for gentlemen's hats. No. 944,062; Dec. 21; Sp. p. 4362; Gaz. vol. 149; p. 752.
- Vasconcellos, H. J., Jacksonville, Ill. Cooling apparatus. No. 911,785; Feb. 9; Sp. p. 1492; Gaz. vol. 139; p. 279.
- Vasey, J. D., assignor to Bennett Manufacturing Company, Buffalo, N. Y. Scraper. No. 908,629; Jan. 5; Sp. p. 415; Gaz. vol. 138; p. 67.
- Vasicek, J., Lagrange, Tex. Pencil. No. 915,130; Mar. 16; Sp. p. 3074; Gaz. vol. 140; p. 539.
- Vasseux, A., Ailly-sur-Noye, France. Manufacture of manure and alkali salts. No. 909,350; Jan. 12; Sp. p. 1864; Gaz. vol. 138; p. 334.
- Vater, G. C. F., St. Louis, Mo. Gas-producer. No. 916,806; Mar. 30; Sp. p. 6356; Gaz. vol. 140; p. 1136.
- Vaucher, C., assignor to Dye-Works formerly L. Durand, Huguenin & Co., Basel, Switzerland. Leuco derivatives of galloxyanin arylids, &c., and making same. No. 929,350; July 27; Sp. p. 5535; Gaz. vol. 144; p. 970.
- Vauclain, A. C., Philadelphia, Pa. Brake-shoe. No. 934,775; Sept. 21; Sp. p. 3615; Gaz. vol. 146; p. 630.
- Vauclain, A. C., assignor to Burnham, Williams & Company, Philadelphia, Pa. Brake mechanism for railway-cars. No. 935,436; Sept. 28; Sp. p. 4943; Gaz. vol. 146; p. 873.
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- Vauclain, S. M., assignor to Burnham, Williams & Company, Philadelphia, Pa. Superheater for locomotives. No. 922,365; May 13; Sp. p. 4641; Gaz. vol. 142; p. 807.
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- Vaclair, S. M., assignor to Burnham, Williams & Company, Philadelphia, Pa. Locomotive. No. 927,386; July 6; Sp. p. 1367; Gaz. vol. 144; p. 227.
- Vaclair, S. M., assignor to Baldwin Locomotive Works, Philadelphia, Pa. Locomotive. No. 936,198; Oct. 5; Sp. p. 1246; Gaz. vol. 147; p. 189.
- Vaughan & Bushnell Manufacturing Company. (See Vaughan, S. S., assignor.)
- Vaughan, D. F., Haddonfield, N. J. Anticreeping device for railway-rails. No. 923,388; June 1; Sp. p. 642; Gaz. vol. 143; p. 92.
- Vaughan, D. F., Haddonfield, N. J. Jack. No. 944,706; Dec. 28; Sp. p. 5761; Gaz. vol. 149; p. 997.
- Vaughan, D. O., McPherson, Kans. Fountain attachment for penholders. No. 931,530; Aug. 17; Sp. p. 4007; Gaz. vol. 145; p. 690.
- Vaughan, E. (See Black, J., assignor.)
- Vaughan, F., San Francisco, Cal. Shoe-polisher. No. 933,504; Sept. 7; Sp. p. 1127; Gaz. vol. 146; p. 162.
- Vaughan, F. L., and J. R. McKenzie, Rochester, N. Y. Carbureter. No. 930,443; Aug. 10; Sp. p. 1652; Gaz. vol. 145; p. 299.
- Vaughan, F. P., Chicago, Ill. Vehicle-wheel. No. 944,641; Dec. 28; Sp. p. 5627; Gaz. vol. 149; p. 976.
- Vaughan, H. G., San Francisco, Cal. Window-cleaning device. No. 916,635; Mar. 30; Sp. p. 6055; Gaz. vol. 140; p. 1086.
- Vaughan, H. H., Montreal, Quebec, Canada. Railway-truck. No. 917,979; Apr. 13; Sp. p. 2062; Gaz. vol. 141; p. 373.
- Vaughan, H. L., Chicago, Ill. Bottle-opener. No. 943,759; Dec. 21; Sp. p. 3723; Gaz. vol. 149; p. 648.
- Vaughan, J. L., Dearing, Kans. Water-glass and gage-cock fountain. No. 911,786; Feb. 9; Sp. p. 1493; Gaz. vol. 139; p. 279.
- Vaughan, R. (See Shonefelt and Vaughan.)
- Vaughan, S. S., assignor to Vaughan & Bushnell Manufacturing Company, Chicago, Ill. Wrench. No. 913,995; Mar. 2; Sp. p. 716; Gaz. vol. 140; p. 113.
- Vaughan, T. C., Alberta, Minn. Grain-separator. No. 914,997; Mar. 9; Sp. p. 2760; Gaz. vol. 140; p. 466.
- Vaughn, C. W., Cuyahoga Falls, Ohio. Press for making sewer-pipe and the like. No. 915,640; Mar. 16; Sp. p. 4098; Gaz. vol. 140; p. 708.
- Vaughn, W. E., St. Paul, Minn. Automatic injector for gas service-pipes. No. 911,464; Feb. 2; Sp. p. 835; Gaz. vol. 139; p. 147.
- Vayro, A. H., *et al.* (See Smith, B. M., assignor.)
- Veck, R., Algenrodt, Germany. Device for shrinking rings on bottles and other objects. No. 934,951; Sept. 21; Sp. p. 3970; Gaz. vol. 146; p. 689.
- Veeder, C. H., assignor to Veeder Manufacturing Company, Hartford, Conn. Measuring or indicating instrument. No. 937,015; Oct. 12; Sp. p. 2934; Gaz. vol. 147; p. 488.
- Veeder Manufacturing Company. (See Veeder, C. H., assignor.)
- Veeyers, E., and G. H. Butterworth, Liverpool, England. Tramway-point. No. 917,197; Apr. 6; Sp. p. 482; Gaz. vol. 141; p. 84.
- Vega Company. (See Day, D. L., assignor.)
- Veghte, A., Albany, assignor to Troy Malleable Iron Co., Troy, N. Y. Annealing-oven. No. 930,507; Aug. 10; Sp. p. 1785; Gaz. vol. 145; p. 320.
- Veit, J. W., and J. N. Higgins, Wapakoneta, Ohio. Whip-socket. No. 934,109; Sept. 14; Sp. p. 2328; Gaz. vol. 146; p. 382.
- Veitch, A., Canton, N. Y. Gage and marking device. No. 927,903; July 13; Sp. p. 2511; Gaz. vol. 144; p. 428.
- Veitch, G. (See Matthews and Veitch.)
- Veitch, M. B., administratrix. (See Veitch, R. C.)
- Veitch, R. C., deceased; M. B. Veitch, Bessemer, Ala., administratrix. Tilting device for cinder-cars. No. 916,636; Mar. 30; Sp. p. 6056; Gaz. vol. 140; p. 1086.
- Veitch, T., Dumont, assignor to International Patent Corporation, Jersey City, N. J. Shock-absorber. No. 910,974; Jan. 26; Sp. p. 5174; Gaz. vol. 138; p. 974.
- Veley, E. E., Cedar Rapids, Iowa. Counterboring-tool. No. 911,787; Feb. 9; Sp. p. 1494; Gaz. vol. 139; p. 279.
- Velle, W. L. (See Fuller, L. M., assignor.)
- Velling, H. A., Oneida, N. Y. Push-cart. No. 934,244; Sept. 14; Sp. p. 2591; Gaz. vol. 146; p. 429.
- Velochrome Company. (See Jacques, C. A., assignor.)
- Veneer Machinery Company. (See Dennis, A. A., assignor.) (Reissue.)
- Veneer Machinery Company. (See Nystrom and Taxon, assignors.)
- Venier, W., Klosterneuburg-Weidling, Austria-Hungary. Small-arm. No. 937,396; Oct. 19; Sp. p. 3753; Gaz. vol. 147; p. 642.
- Venn, J., and J. A., Cambridge, England. Bowling-machine. No. 943,494; Dec. 14; Sp. p. 3131; Gaz. vol. 149; p. 528.
- Venn, J. A. (See Venn, J. and J. A.)
- Venner, R. F., Addiscombe, England. Means for securing glass beads on single perforated sign-boards. No. 936,199; Oct. 5; Sp. p. 1248; Gaz. vol. 147; p. 189.
- Venner, R. F., and A. W. Brown, London, England. Atomizer. No. 931,240; Aug. 17; Sp. p. 3420; Gaz. vol. 145; p. 593.
- Venners, J. H. (See Frank and Venners.)
- Venning, F. J., Pittsburg, Pa. Trolley frog and crossing. No. 914,207; Mar. 2; Sp. p. 1176; Gaz. vol. 140; p. 185.
- Venter, O., Chemnitz, Germany. Apparatus for removing lye from fabrics. No. 934,110; Sept. 14; Sp. p. 2329; Gaz. vol. 146; p. 382.
- Venter, O., Chemnitz, Germany. Apparatus for concentrating liquids. No. 937,976; Oct. 26; Sp. p. 4952; Gaz. vol. 147; p. 854.
- Ventilating Window Shade Company. (See Hughes and Robinson, assignors.)
- Ver Bryck, S. A., Belleville, N. J., assignor to Hanlon & Goodman Co., New York, N. Y. Brush. No. 930,816; Aug. 10; Sp. p. 2451; Gaz. vol. 145; p. 424.
- Ver Planck, W. E. (See Hamilton and Ver Planck.)
- Verbeck, F. S., Chicago, Ill. Art lamp-shade. No. 938,093; Oct. 26; Sp. p. 5214; Gaz. vol. 147; p. 895.
- Verbeck, H. A., San Francisco, Cal. Pantograph. No. 925,669; June 22; Sp. p. 5384; Gaz. vol. 143; p. 943.
- Verbeck, W., Manlius, N. Y. Photographic-camera mechanism. No. 933,801; Sept. 14; Sp. p. 1702; Gaz. vol. 146; p. 282.
- Vercellini, J. (See Stragiotti and Vercellini.)
- Vereinigte Chininfabriken Zimmer & Co., G. m. b. H. (See Mezger and Weller, assignors.)
- Vereinigte Chininfabriken Zimmer & Co., G. m. b. H. (See Sprüngers, E., assignor.)
- Vereinigte Maschinenfabrik Augsburg Maschinenbaugesellschaft Nürnberg A. G. (See Holzer, H., assignor.)
- Vereinigte Wunderkerzen-Fabriken Gesellschaft mit beschränkter Haftung. (See Welter, F. J., assignor.)
- Vergennes Drug Company. (See Warner, W. R., assignor.)
- Verges, G., Norfolk, Va. Newspaper-holder. No. 926,786; July 6; Sp. p. 156; Gaz. vol. 144; p. 26.
- Verges, H. A. (See Duenkel, C. L., assignor.)
- Verges, H. A., *et al.* (See Mockridge, J. B., assignor.)
- Verhoeven, A., Marianna, Ark. Burglar-alarm. No. 932,358; Aug. 24; Sp. p. 5763; Gaz. vol. 145; p. 984.
- Vermillion, J. L., *et al.* (See Dunn, F. P., assignor.)
- Vermont Farm Machine Company. (See Kimball, P. L., assignor.)
- Vernam, J. W. (See Daellenbach, C. R., assignor.)
- Vernon, C. D., and J. P. Morningstar, Wheeling, W. Va.; said Morningstar assignor to said Vernon. Self-locking expansion-bolt. No. 922,980; May 25; Sp. p. 5942; Gaz. vol. 142; p. 1036.
- Vernon, C. D., and J. P. Morningstar, Wheeling, W. Va.; said Morningstar assignor to said Vernon. Expansion-bolt. No. 939,457; Nov. 9; Sp. p. 2247; Gaz. vol. 148; p. 373.
- Vernon, C. D., and J. P. Morningstar, Wheeling, W. Va.; said Morningstar assignor to said Vernon. Nut-locking expansion-bolt. No. 942,226; Dec. 7; Sp. p. 426; Gaz. vol. 149; p. 65.
- Vernsten, S. J., Chicago, Ill. Continuous press. No. 921,921; May 18; Sp. p. 3764; Gaz. vol. 142; p. 663.
- Vernsten, S. J., Chicago, Ill. Drier. No. 944,707; Dec. 28; Sp. p. 5763; Gaz. vol. 149; p. 998.
- Veronneau, L. H., Viauville, near Montreal, Quebec, Canada. Floor-dressing machine. No. 942,474; Dec. 7; Sp. p. 937; Gaz. vol. 149; p. 151.
- Verplanck, H. M., assignor to Lansing Wheelbarrow Company, Lansing, Mich. Turn-table. No. 922,643; May 25; Sp. p. 5243; Gaz. vol. 142; p. 927.
- Verplanck, H. M., assignor to Lansing Wheelbarrow Company, Lansing, Mich. Turn-table. No. 938,920; Nov. 2; Sp. p. 1035; Gaz. vol. 148; p. 164.
- Verplast, F., Boston, Mass. Automatic weighing-machine. No. 918,614; Apr. 20; Sp. p. 3381; Gaz. vol. 141; p. 612.
- Verry, I. H. (See Holmes and Verry.)
- Verschöyle, W. D., Tanrago, Ballisodare, Ireland. Portable turning-lathe. No. 918,227; Apr. 13; Sp. p. 2572; Gaz. vol. 141; p. 458.
- Verschuer, E. von. (See Morsey-Picard and Verschuer.)
- Verschuren, A., Antwerp, Belgium. Elevating and dumping apparatus. No. 919,795; Apr. 27; Sp. p. 6055; Gaz. vol. 141; p. 1041.
- Verschuren, A., Antwerp, Belgium. Street-sweeping vehicle. No. 932,195; Aug. 24; Sp. p. 5465; Gaz. vol. 145; p. 930.
- Ves-Tong Mfg. Co. (See Parrett, J., assignor.)
- Vessels, O. E., Indianapolis, Ind. Printer's quoin. No. 911,094; Feb. 2; Sp. p. 140; Gaz. vol. 139; p. 26.
- Vest, E. W., Mulberry Grove, Ill. Gate. No. 916,807; Mar. 30; Sp. p. 6357; Gaz. vol. 140; p. 1136.
- Vest, E. W., Mulberry Grove, Ill. Latching device. No. 917,198; Apr. 6; Sp. p. 485; Gaz. vol. 141; p. 85.

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- Vial, H., Hamilton, Mont. Box-cover press. No. 913,178; Feb. 23; Sp. p. 4445; Gaz. vol. 139; p. 801.
- Viano, F., Lexington, assignor to Columbia Jewelry Company, North Cambridge, Mass. Making link fabric. No. 934,952; Sept. 21; Sp. p. 3971; Gaz. vol. 146; p. 690.
- Viascope Manufacturing Company. (See Pink, J. J., assignor.)
- Vibber, W. H., assignor of one-half to Gillette-Vibber Co., New London, Conn. Adjustable coupling for electric-installation tubes. No. 913,588; Feb. 23; Sp. p. 5311; Gaz. vol. 139; p. 940.
- Vibber, W. H., assignor of one-half to Gillette-Vibber Co., New London, Conn. Electric installation outlet-box. No. 932,196; Aug. 24; Sp. p. 5468; Gaz. vol. 145; p. 931.
- Vibber, W. H., assignor of one-half to Gillette-Vibber Co., New London, Conn. Conduit-cap for electric installation. No. 943,287; Dec. 14; Sp. p. 2703; Gaz. vol. 149; p. 457.
- Vicarey, R. W. (See Guyon and Vicarey.)
- Vick, R. M., Alliance, Ohio. Educational device. No. 940,093; Nov. 16; Sp. p. 3651; Gaz. vol. 148; p. 623.
- Vick, R. M., Alliance, Ohio. Credit-cabinet. No. 942,387; Dec. 7; Sp. p. 738; Gaz. vol. 149; p. 121.
- Vick, R. M., Alliance, Ohio. Partition-holder. No. 943,719; Dec. 21; Sp. p. 3651; Gaz. vol. 149; p. 634.
- Vick, R. M., Alliance, Ohio. Guide-card. No. 943,720; Dec. 21; Sp. p. 3652; Gaz. vol. 149; p. 634.
- Vick, W. J., Ravenna, Ohio. Division-plate for document-files. No. 928,346; July 20; Sp. p. 3447; Gaz. vol. 144; p. 608.
- Vickers, A. L., New Sharon, Iowa. Cleat for electric wires. No. 910,975; Jan. 26; Sp. p. 5176; Gaz. vol. 138; p. 933.
- Vickers Sons & Maxim. (See Dawson and Buckham, assignors.)
- Vickers Sons & Maxim. (See Williamson, A. D., assignor.)
- Vickers Sons & Maxim Limited. (See Dawson and Horne, assignors.)
- Vickers, T. E., and A. L. Henry, Wrightsville, Ga. Detachable book-rest for chairs. No. 939,764; Nov. 9; Sp. p. 2919; Gaz. vol. 148; p. 479.
- Vickery, B. F., Girard, Ala. Friction tool-holder. No. 925,854; June 22; Sp. p. 5805; Gaz. vol. 143; p. 1005.
- Vickery, G. (See Vickery, W. and G.)
- Vickery, G. S. (See Alden and Vickery.)
- Vickery, W., Milverton, and G. Vickery, North Fitzwarren, England. Seal-fastening. No. 917,199; Apr. 6; Sp. p. 486; Gaz. vol. 141; p. 85.
- Vicksell, J. V., Mediapolis, Iowa. Lifting and lowering apparatus. No. 938,728; Nov. 2; Sp. p. 605; Gaz. vol. 148; p. 95.
- Victor, A., assignor to La Societe Ribayron et Victor, Lyon, France. Rotary cutter. No. 937,558; Oct. 19; Sp. p. 4107; Gaz. vol. 147; p. 698.
- Victor, A. F., Elmira, N. Y. Gearing for washing-machines. No. 916,068; Mar. 23; Sp. p. 4934; Gaz. vol. 140; p. 874.
- Victor Safe & Lock Company. (See Bausmith, W. T., assignor.)
- Victor Safe & Lock Company. (See Hattersley, G. A., assignor.)
- Victor Safe & Lock Company. (See Keller, J. R., assignor.)
- Victor Safe & Lock Company. (See Spivey, T. S., assignor.)
- Victor Talking Machine Company. (See Cheney, G. K., assignor.)
- Victor Talking Machine Company. (See Dennison, W. N., assignor.)
- Victor Talking Machine Company. (See English, J. C., assignor.)
- Victor Talking Machine Company. (See Gibson, R. L., assignor.)
- Victor Talking Machine Company. (See Miller, H. C., assignor.) (Reissue.)
- Victor Talking Machine Company. (See Wickes, C. S., assignor.)
- Victor Typewriter Company. (See Hagerstrom, J. A., assignor.)
- Victoria Self-Lacing Company. (See Leonard, C. N., assignor.)
- Victoria Self-Lacing Company. (See Smith, J. J., assignor.)
- Vierorius, L. M., New York, N. Y. Loop-tape. No. 938,028; Oct. 26; Sp. p. 5066; Gaz. vol. 147; p. 871.
- Vidina, J., Chicago, Ill. Oiling device. No. 934,111; Sept. 14; Sp. p. 2331; Gaz. vol. 146; p. 382.
- Viedt, H., Morristown, N. J. Ice-cream freezer. No. 911,348; Feb. 2; Sp. p. 635; Gaz. vol. 139; p. 109.
- Viedt, H., Morristown, N. J. Ice-cream freezer. No. 936,060; Oct. 5; Sp. p. 977; Gaz. vol. 147; p. 147.
- Viehmeier, G. J., Gandy, Nebr. Calf and sheep yoke. No. 929,903; Aug. 3; Sp. p. 607; Gaz. vol. 145; p. 95.
- Viel, P. L., Paris, France. Pneumatic tire. No. 929,351; July 27; Sp. p. 5536; Gaz. vol. 144; p. 970.
- Vierengel, M., Brooklyn, N. Y., assignor to U. S. Paper Goods Co., Cincinnati, Ohio. Paper bag. No. 936,588; Oct. 12; Sp. p. 2084; Gaz. vol. 147; p. 346.
- Vierling, J., Pittsburg, Pa. Vending-machine. No. 929,733; Aug. 3; Sp. p. 200; Gaz. vol. 145; p. 35.
- Viersen, I. A., Chicago, Ill. Automatic-feed match box and safe. No. 916,230; Mar. 23; Sp. p. 5240; Gaz. vol. 140; p. 925.
- Viertel, H., Charlottenburg, assignor to Gebr. Siemens & Co., Lichtenberg, near Berlin, Germany. Electrode for search-lights. No. 917,200; Apr. 6; Sp. p. 489; Gaz. vol. 141; p. 85.
- Viet, J., Ackley, Iowa. Pole-disconnector. No. 944,224; Dec. 21; Sp. p. 4685; Gaz. vol. 149; p. 803.
- Vietor, K., Neustadt-on-the-Main-Weserbahn, Germany. Device for taking off the trousers. No. 916,508; Mar. 30; Sp. p. 5824; Gaz. vol. 140; p. 1045.
- Viezzi, L., Jersey City, N. J. Mail-box and letter-carrier's pouch. No. 934,245; Sept. 14; Sp. p. 2594; Gaz. vol. 146; p. 429.
- Viganego, J. T., San Francisco, Cal. Garment-hanger. No. 928,086; July 13; Sp. p. 2862; Gaz. vol. 144; p. 488.
- Viggars, C. H., and E. H. Stolz, Chicago, Ill.; said Viggars assignor to said Stolz. Telephone apparatus. No. 911,531; Feb. 2; Sp. p. 970; Gaz. vol. 139; p. 169.
- Vignos, A., et al. (See Filizet, H. J., assignor.)
- Vignos, A. A., assignor to Novelty Cutlery Company, Canton, Ohio. Knife-blade. No. 938,186; Oct. 26; Sp. p. 5427; Gaz. vol. 147; p. 926.
- Viguie, E., and R. G. Forget, Paris, France. Motor fore-carriage for vehicles. No. 938,094; Oct. 26; Sp. p. 5215; Gaz. vol. 147; p. 894.
- Vik, A. A., Northwood, N. D. Wagon-seat. No. 922,546; May 25; Sp. p. 5043; Gaz. vol. 142; p. 895.
- Vikla, M. R., Wesely, Minn. Cockeye. No. 924,859; June 15; Sp. p. 3801; Gaz. vol. 143; p. 649.
- Viktor, J. A., and F. J. John, Cedar Rapids, Iowa. Dipping-tank. No. 933,935; Sept. 14; Sp. p. 1979; Gaz. vol. 146; p. 326.
- Villani, L. (See Gaglio and Villani.)
- Villard, R. H., New York, N. Y. Portable baby-fence. No. 913,075; Feb. 23; Sp. p. 4236; Gaz. vol. 139; p. 767.
- Villard, R. H., New York, N. Y. Baby-fence. No. 915,131; Mar. 16; Sp. p. 3075; Gaz. vol. 140; p. 539.
- Villard, R. H., Rochester, assignor to Diamond Expansion Bolt Company, New York, N. Y. Coupling for sectional rods. No. 921,487; May 11; Sp. p. 2860; Gaz. vol. 142; p. 492.
- Villars, J. R. (See Meiklejohn and Villars.)
- Villeneuve, A., assignor of one-third to E. Trombley, Concord, and one-third to A. Lefevre, Salisbury, N. H. Stone and stump removing machine. No. 935,132; Sept. 28; Sp. p. 4352; Gaz. vol. 146; p. 776.
- Villiers, F., Okmulgee, Okla. Caster. No. 928,087; July 13; Sp. p. 2863; Gaz. vol. 144; p. 488.
- Villiers-Stuart, H., Louisville, Ky. Shock-absorbing coupling. No. 925,250; June 15; Sp. p. 4561; Gaz. vol. 143; p. 780.
- Villwock, H. F., Jr., Millston, Wis. Wire-reeling machine. No. 914,998; Mar. 9; Sp. p. 2763; Gaz. vol. 140; p. 466.
- Vincent, A., et al. (See Goyette, F. W., assignor.)
- Vincent, J. G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 910,749; Jan. 26; Sp. p. 4743; Gaz. vol. 138; p. 861.
- Vincent, J. G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 913,960; Mar. 2; Sp. p. 395; Gaz. vol. 140; p. 65.
- Vincent, J. G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Line and column gage for adding-machines. No. 922,547; May 25; Sp. p. 5044; Gaz. vol. 142; p. 896.
- Vincent, J. G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 926,151; June 29; Sp. p. 6415; Gaz. vol. 143; p. 1138.
- Vincent, J. G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Carriage mechanism for adding-machines. No. 929,056; July 27; Sp. p. 4866; Gaz. vol. 144; p. 870.
- Vincent, J. G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 932,073; Aug. 24; Sp. p. 5215; Gaz. vol. 145; p. 889.
- Vincent, J. G., and N. White, assignors to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 919,656; Apr. 27; Sp. p. 5785; Gaz. vol. 141; p. 995.
- Vincent, J. G., and R. E. Benner, assignors to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 924,118; June 8; Sp. p. 2189; Gaz. vol. 143; p. 366.
- Vincent, J. T. (See Jones and Vincent.)
- Vincent, W. W., Kenosha, Wis. Lacquering bedsteads. No. 908,911; Jan. 5; Sp. p. 989; Gaz. vol. 138; p. 158.
- Vincent, W. W., assignor to Simmons Manufacturing Company, Kenosha, Wis. Bed-spring. No. 908,524; Jan. 5; Sp. p. 193; Gaz. vol. 138; p. 83.
- Vincent, W. W., assignor to Simmons Manufacturing Company, Kenosha, Wis. Heating device for lacquering. No. 928,291; July 20; Sp. p. 3339; Gaz. vol. 144; p. 589.



*Alphabetical list of patentees—Continued.*

- Vindrier, J., *et al.* (See Vindrier, P., assignor.)  
 Vindrier, L., *et al.* (See Vindrier, P., assignor.)  
 Vindrier, P., Lyon, assignor of two-thirds to J. and L. Vindrier, Roanne, France. Winding-machine. No. 908,525; Jan. 5; Sp. p. 195; Gaz. vol. 138; p. 34.  
 Vinet, G., Neuilly-sur-Seine, France. Vehicle-wheel. No. 910,612; Jan. 26; Sp. p. 4486; Gaz. vol. 138; p. 818.  
 Vinette, H., Pittsfield, Mass. Hose-cock. No. 936,496; Oct. 12; Sp. p. 1902; Gaz. vol. 147; p. 314.  
 Vining, G. H., Kansas City, Mo. T-slot bar. No. 931,164; Aug. 17; Sp. p. 3254; Gaz. vol. 145; p. 567.  
 Vining, G. H., Kansas City, Mo. Machine for sawing and trimming type, plates, &c. No. 943,129; Dec. 14; Sp. p. 2376; Gaz. vol. 149; p. 404.  
 Vinson, H. M., Cornish, Okla. Cotton-chopper. No. 918,800; Apr. 20; Sp. p. 3808; Gaz. vol. 141; p. 676.  
 Violette, E. P., Wichita, Kans. Pie and biscuit dough mixer. No. 927,387; July 6; Sp. p. 1368; Gaz. vol. 144; p. 227.  
 Virckler, A. G., Lowville, N. Y. High-pressure reducing and noiseless valve for flush-tanks. No. 926,787; July 6; Sp. p. 157; Gaz. vol. 144; p. 26.  
 Virgillito, J., New York, N. Y. Auxiliary piano-pedal. No. 931,662; Aug. 17; Sp. p. 4280; Gaz. vol. 145; p. 731.  
 Virgin, C., Baltimore, Md. Fruit-picker. No. 938,355; Oct. 26; Sp. p. 5795; Gaz. vol. 147; p. 984.  
 Virginia Laboratory Company. (See Kügelgen and Seward, assignors.)  
 Virginia Laboratory Company. (See Seward and Kügelgen, assignors.)  
 Virtue, F. A., Porterville, Cal. Rustic square. No. 921,488; May 11; Sp. p. 2863; Gaz. vol. 142; p. 493.  
 Vissat, A. L., Bridgeville, Pa. Switch. No. 912,049; Feb. 9; Sp. p. 2115; Gaz. vol. 139; p. 365.  
 Vissat, A. L., Bridgeville, Pa. Switch. No. 940,566; Nov. 16; Sp. p. 4713; Gaz. vol. 148; p. 785.  
 Vissering, H., Chicago, Ill. Track-sander. No. 943,238; Dec. 14; Sp. p. 2705; Gaz. vol. 149; p. 457.  
 Vititoe, C. P. (See Lee and Vititoe.)  
 Vizens, H. C. (See Jackson and Vizens.)  
 Vizens, H. C., Chicago, Ill., assignor, by mesne assignments, to T. McNaughton, London, England. Time-stamp gage device. No. 909,731; Jan. 12; Sp. p. 2624; Gaz. vol. 138; p. 463.  
 Vizens, H. C., Chicago, Ill., assignor, by mesne assignments, to T. McNaughton, London, England. Electric secondary clock. No. 909,732; Jan. 12; Sp. p. 2626; Gaz. vol. 138; p. 464.  
 Vlach, F., Chicago, Ill. Hose-coupling. No. 938,095; Oct. 26; Sp. p. 5216; Gaz. vol. 147; p. 894.  
 Vlasto, I. (See Clark and Vlasto.)  
 Voegel, H., St. Louis, Mo. Moving-picture apparatus. No. 938,729; Nov. 2; Sp. p. 606; Gaz. vol. 148; p. 96.  
 Voegeli, J., and J. Rosenberg, Granite City, Ill. Combined metallic railway-tie and rail-fastener. No. 912,760; Feb. 16; Sp. p. 3638; Gaz. vol. 139; p. 641.  
 Voegeli, J., and J. Rosenberg, Granite City, Ill. Metallic railway-tie and rail-fastener. No. 912,761; Feb. 16; Sp. p. 3639; Gaz. vol. 139; p. 641.  
 Voelcker, J. C. H., Louisville, Ky. Faucet. No. 918,714; Apr. 20; Sp. p. 3659; Gaz. vol. 141; p. 648.  
 Voelkel, G. W. and J. L., Beauparc, Ill. Clod-cutter. No. 928,088; July 13; Sp. p. 2863; Gaz. vol. 144; p. 488.  
 Voelkel, J. L. (See Voelkel, G. W. and J. L.)  
 Voelkel, W. E., Jr., *et al.* (See Jordan, W. A., assignor.)  
 Voelkner, H. A., Detroit, Mich. Sprayer. No. 916,808; Mar. 30; Sp. p. 6359; Gaz. vol. 140; p. 1136.  
 Vogel, B. (See Vogel, W., assignor.)  
 Vogel and Brothers, W. (See Gaus, F. J., assignor.)  
 Vogel, C. (See Rogers and Vogel.)  
 Vogel, C., Fort Lee, N. J. Machine for turning crank-pins and eccentrics. No. 923,219; June 1; Sp. p. 203; Gaz. vol. 143; p. 34.  
 Vogel, E. W., Chicago, Ill. Lightning-arrester. No. 940,220; Nov. 16; Sp. p. 3934; Gaz. vol. 148; p. 668.  
 Vogel, F. M., Lynn, Mass., assignor to General Electric Company. Electric meter. No. 941,436; Nov. 30; Sp. p. 6606; Gaz. vol. 148; p. 1120.  
 Vogel, H. E., Chicago, Ill. Hot-air syringe. No. 911,687; Feb. 9; Sp. p. 1325; Gaz. vol. 139; p. 246.  
 Vogel, H. F., *et al.* (See Spandau, R. C., assignor.)  
 Vogel, J. C., Philadelphia, Pa. Ground-joint connection. No. 944,752; Dec. 28; Sp. p. 5882; Gaz. vol. 149; p. 1013.  
 Vogel, J. C., Philadelphia, Pa., assignor to Fairmount Electric and Manufacturing Company. Electrolier holder or hanger. No. 926,445; June 29; Sp. p. 7010; Gaz. vol. 143; p. 1235.  
 Vogel, L. H., Jamaica Plain, Mass. Window-fastening device. No. 922,644; May 25; Sp. p. 5244; Gaz. vol. 142; p. 928.  
 Vogel, W., assignor to B. Vogel, New York, N. Y. Cutting-tool for appliqué-work. No. 941,967; Nov. 30; Sp. p. 7723; Gaz. vol. 148; p. 1300.  
 Vogel, W. C., and H. K. Snell, Rockford, Ill. Capstan-screw. No. 925,057; June 15; Sp. p. 4199; Gaz. vol. 143; p. 715.  
 Vogelmann, J. A., Brooklyn, N. Y. Self-filling fountain-pen. No. 940,909; Nov. 23; Sp. p. 5448; Gaz. vol. 148; p. 923.  
 Vogl, L., assignor of one-half to F. Gotfredsen, New York, N. Y. Fire-escape. No. 942,604; Dec. 7; Sp. p. 1193; Gaz. vol. 149; p. 195.  
 Vogler, C. H., Houston, Tex. Self-cleaning tank. No. 934,246; Sept. 14; Sp. p. 2597; Gaz. vol. 146; p. 430.  
 Voglhut, F. (See Rosenbaum and Voglhut.)  
 Vogt, A., *et al.* (See Kendrick, S., assignor.)  
 Vogt, E. M., administratrix. (See Vogt, F. W.)  
 Vogt, F. W., deceased, Philadelphia, Pa.; E. M. Vogt, administratrix. Device for resisting swinging movements of suspended railway-cars. No. 919,268; Apr. 20; Sp. p. 4936; Gaz. vol. 141; p. 828.  
 Vogt, G., New York, and G. Dietz, Yonkers, N. Y.; said Dietz assignor to said Vogt. Photographic camera. No. 926,912; July 6; Sp. p. 435; Gaz. vol. 144; p. 70.  
 Vogt, J., Hampton, Nebr. Match-box. No. 915,514; Mar. 16; Sp. p. 3813; Gaz. vol. 140; p. 663.  
 Vogt, J., New Rochelle, N. Y. Flower stand or rack. No. 933,142; Sept. 7; Sp. p. 214; Gaz. vol. 146; p. 37.  
 Voight, H. G., New Britain, Conn. Panic-bolt. No. 912,211; Feb. 9; Sp. p. 2403; Gaz. vol. 139; p. 414.  
 Voight, H. G., New Britain, Conn. Panic-bolt-lock. No. 917,685; Apr. 6; Sp. p. 1403; Gaz. vol. 141; p. 247.  
 Voight, H. G., New Britain, Conn. Snap-flask for molders' use. No. 921,922; May 18; Sp. p. 3768; Gaz. vol. 142; p. 664.  
 Voight, H. G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Panic-bolt. No. 919,269; Apr. 20; Sp. p. 4938; Gaz. vol. 141; p. 828.  
 Voight, H. G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Panic-bolt for outside doors. No. 920,507; May 4; Sp. p. 838; Gaz. vol. 142; p. 135.  
 Voight, H. G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock. No. 929,638; July 27; Sp. p. 6071; Gaz. vol. 144; p. 1061.  
 Voight, H. G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock and latch mechanism. No. 932,730; Aug. 31; Sp. p. 6569; Gaz. vol. 145; p. 1132.  
 Voight, H. G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Sash-lock. No. 937,197; Oct. 19; Sp. p. 3321; Gaz. vol. 147; p. 577.  
 Voight, H. G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock. No. 938,444; Oct. 26; Sp. p. 5988; Gaz. vol. 147; p. 1014.  
 Voight, H. G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Panic-bolt. No. 938,526; Nov. 2; Sp. p. 190; Gaz. vol. 148; p. 27.  
 Voight, H. G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock. No. 938,921; Nov. 2; Sp. p. 1038; Gaz. vol. 148; p. 164.  
 Voightmann & Company. (See Duffy, T. I., assignor.)  
 Voigt, J. T., Seattle, Wash. Pulley. No. 932,838; Aug. 31; Sp. p. 6793; Gaz. vol. 145; p. 1165.  
 Voigt, P. R. (See Läubli, P., assignor.)  
 Vojáček, L., Prague, Austria-Hungary. Submerged feathering paddle-wheel. No. 913,787; Mar. 2; Sp. p. 236; Gaz. vol. 140; p. 40.  
 Vojáček, L., Prague, Austria-Hungary. Submerged vertical paddle-wheel. No. 923,737; June 1; Sp. p. 1363; Gaz. vol. 143; p. 213.  
 Vokel, G. J., assignor of one-half to C. T. Waltz, Philadelphia, Pa. Gyro-electric generator. No. 928,089; July 13; Sp. p. 2864; Gaz. vol. 144; p. 488.  
 Volck, W. H. (See Luther and Volck.)  
 Volckening, C. K. (See Davis, A. N., assignor.)  
 Volckening, C. K., New York, N. Y. Arm and brush for bottle-washers. No. 922,981; May 25; Sp. p. 5944; Gaz. vol. 142; p. 1036.  
 Volckening, C. K., New York, N. Y. Stem for bottle-washing brushes. No. 922,982; May 25; Sp. p. 5945; Gaz. vol. 142; p. 1037.  
 Vold, L. H., Westville, N. J., assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Lathe. No. 941,475; Nov. 30; Sp. p. 6690; Gaz. vol. 148; p. 1133.  
 Vollva, A. R., North Yakima, Wash. Coin-holder. No. 938,922; Nov. 2; Sp. p. 1041; Gaz. vol. 148; p. 165.  
 Volk, F., Pittsburg, Pa. Trolley-base. No. 933,505; Sept. 7; Sp. p. 1128; Gaz. vol. 146; p. 162.  
 Volk, J. A., Jr., South Norwalk, Conn. Renewable fuse for electric circuits. No. 924,860; June 15; Sp. p. 3802; Gaz. vol. 143; p. 649.  
 Volk, T., Cleveland, Ohio. Mechanical training-machine. No. 921,755; May 18; Sp. p. 3418; Gaz. vol. 142; p. 608.  
 Volker, W. (See Leach, S. H., assignor.)

*Alphabetical list of patentees—Continued.*

- Volkman, P., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Naphthylpyrazolone sulfonic acid. No. 910,437; Jan. 19; Sp. p. 4099; Gaz. vol. 138; p. 735.
- Volkman, P., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Yellow azo dye. No. 935,829; Oct. 5; Sp. p. 496; Gaz. vol. 147; p. 71.
- Volkman, P., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 935,830; Oct. 5; Sp. p. 497; Gaz. vol. 147; p. 71.
- Volkmar, B., New York, N. Y. Chronological chart. No. 915,254; Mar. 16; Sp. p. 3312; Gaz. vol. 140; p. 579.
- Voll, J. (See Quaresima and Voll.)
- Volland, M., Buffalo, N. Y. Adjustable bearing. No. 921,571; May 11; Sp. p. 3021; Gaz. vol. 142; p. 519.
- Voller, J. A. and L. Etna, Pa. Amusement apparatus. No. 941,828; Nov. 30; Sp. p. 7448; Gaz. vol. 148; p. 1252.
- Völler, K., Dusseldorf, assignor to Rheinische Metallwaren-und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Braking mechanism for guns having recoiling barrels. No. 910,976; Jan. 26; Sp. p. 5177; Gaz. vol. 138; p. 933.
- Völler, K., Dusseldorf, assignor to Rheinische Metallwaren-und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Fuse for projectiles. No. 920,793; May 4; Sp. p. 1420; Gaz. vol. 142; p. 229.
- Voller, L. (See Voller, J. A. and L.)
- Vollmann, C. W., Montreal, Quebec, Canada. Rotary pump. No. 944,708; Dec. 28; Sp. p. 5768; Gaz. vol. 149; p. 998.
- Vollmer, D. F., Monroe, La. Hydrostatic propelling and steering apparatus. No. 917,201; Apr. 6; Sp. p. 490; Gaz. vol. 141; p. 86.
- Vollmer, D. F., Monroe, La. Socket reversible ratchet-wrench. No. 943,905; Dec. 21; Sp. p. 4031; Gaz. vol. 149; p. 698.
- Vollom, A. P. (See Rustad, T., assignor.)
- Vollrath, L. H. (See Ebel and Vollrath.)
- Volney, C. W., Keyport, N. J. Drying. No. 909,261; Jan. 12; Sp. p. 1691; Gaz. vol. 138; p. 305.
- Voltz, G. C., *et al.* (See Washington, D. E., assignor.)
- Volunteer Disc Plow Co. (See Sholar and Pace, assignors.)
- Volunteer Disc Plow Company. (See Austin, H. S., assignor.)
- Volunteer Disc Plow Company. (See Sholar, E. H., assignor.)
- Volz, S., Milwaukee, Wis., assignor to one-half to H. Scarborough, Chicago, Ill. Bottle-soaking machine. No. 919,796; Apr. 27; Sp. p. 6057; Gaz. vol. 141; p. 1042.
- Von Duprin Fire Exit Latch Co. (See Hood, A. M., assignor.)
- Vonhausen, A., Wiesbaden, assignor, by mesne assignments, to Hamburg-Amerikanische Uhrenfabrik, Schramberg, Germany. Telephone-clock. No. 917,202; Apr. 6; Sp. p. 491; Gaz. vol. 141; p. 86.
- Vonnegut, A. (See Mueller, O. N., assignor.)
- Voorhees, G. T., Boston, Mass. Multiple-effect absorption refrigerating system. No. 932,657; Aug. 31; Sp. p. 6413; Gaz. vol. 145; p. 1107.
- Voorhees, G. T., Boston, Mass. Multiple-effect receiver. No. 933,682; Sept. 7; Sp. p. 1465; Gaz. vol. 146; p. 221.
- Voorhees, J. K., Cedar Falls, and V. V. Speer, Cedar Falls township, Iowa. Separable pulley-block. No. 909,971; Jan. 19; Sp. p. 3109; Gaz. vol. 138; p. 575.
- Voorhees, J. K., and V. V. Speer, Cedar Falls, Iowa. Wagon-loading device. No. 911,633; Feb. 9; Sp. p. 1206; Gaz. vol. 139; p. 228.
- Voorhees, J. K., and V. V. Speer, Cedar Falls, Iowa. Shifter. No. 935,711; Oct. 5; Sp. p. 190; Gaz. vol. 147; p. 30.
- Voorhees, J. S., New York, N. Y. Interchangeable locking-border. No. 919,094; Apr. 20; Sp. p. 4412; Gaz. vol. 141; p. 771.
- Voorhees, F., Logansport, Ind. Boiler-cleaner. No. 917,203; Apr. 6; Sp. p. 494; Gaz. vol. 141; p. 86.
- Voorhies, F. E., Broussard, La. Press-radiator. No. 937,397; Oct. 19; Sp. p. 3755; Gaz. vol. 147; p. 643.
- Vornhold, W. J., assignor to Vornhold Wall Paper Company, Philadelphia, Pa. Wall-paper-drying apparatus. No. 914,767; Mar. 9; Sp. p. 2346; Gaz. vol. 140; p. 394.
- Vornhold Wall Paper Company. (See Vornhold, W. J., assignor.)
- Vorreiter, A., Berlin, Germany. Controller for electrically-driven automobiles. No. 918,402; Apr. 13; Sp. p. 2916; Gaz. vol. 141.4; p. 5.
- Vortex Vacuum Company. (See Lacock, J. F., assignor.)
- Vosburgh, H. E., Norristown, assignor to S. D. Rhoades, Phoenixville, and J. J. Quay, Norristown, Pa. Thill-coupling. No. 930,246; Aug. 3; Sp. p. 1281; Gaz. vol. 145; p. 211.
- Vosburgh, R. L., Aberdeen, Wash. Feed-water heater. No. 921,756; May 18; Sp. p. 3420; Gaz. vol. 142; p. 609.
- Vose, A. S. (See Ayer and Vose.)
- Vose, A. S., assignor to R. L. Vose, Brookline, Mass. Shoe-trimming machine. No. 942,987; Dec. 14; Sp. p. 2049; Gaz. vol. 149; p. 355.
- Vose, R. L. (See Ayer, A. E., assignor.)
- Vose, R. L. (See Ayer and Vose, assignors.)
- Vose, R. L. (See Vose, A. S., assignor.)
- Voshardt, H. F. (See Friedley and Voshardt.)
- Voshardt, H. F., assignor to Friedley-Voshardt Company, Chicago, Ill. Sheet-metal convertible pipe-elbow. No. 912,336; Feb. 16; Sp. p. 2714; Gaz. vol. 139; p. 495.
- Vosmaer, A., assignor to United Water Improvement Company, Philadelphia, Pa. Apparatus for the production of ozone. No. 919,403; Apr. 27; Sp. p. 5239; Gaz. vol. 141; p. 908.
- Vosper, W. W., assignor to Shaw-Kendall Engineering Company, Toledo, Ohio. Multiple drilling-machine. No. 934,776; Sept. 21; Sp. p. 3616; Gaz. vol. 146; p. 630.
- Voss, A. E., Gunnersbury, England. Speed indicator and recorder. No. 919,657; Apr. 27; Sp. p. 5803; Gaz. vol. 141; p. 995.
- Voss, R. (See Schmidt and Voss.)
- Voss, W. H., Davenport, Iowa. Gearing for washing-machines. No. 918,934; Apr. 20; Sp. p. 4109; Gaz. vol. 141; p. 721.
- Vosseler, M., and M. Schlenker, Elizabeth, N. J. Shade-bracket. No. 944,642; Dec. 28; Sp. p. 5629; Gaz. vol. 149; p. 977.
- Vossler, W., Richmond, Ind. Lawn-sprinkler. No. 935,071; Sept. 28; Sp. p. 4224; Gaz. vol. 146; p. 756.
- Vote-Berger Co. (See Enochs, C. D., assignor.)
- Vote-Berger Company. (See Wallace, J. N., assignor.)
- Voter, H. M., Bowden, N. D. Animal-trap. No. 936,836; Oct. 12; Sp. p. 2581; Gaz. vol. 147; p. 430.
- Vought, G. J. (See Dunn and Vought.)
- Vought, G. W., Hollis, N. Y. Concrete-wall construction. No. 924,405; June 8; Sp. p. 2840; Gaz. vol. 143; p. 463.
- Vowell, C. O., Red Lodge, Mont. Detachable hook for shaft-work. No. 913,589; Feb. 23; Sp. p. 5311; Gaz. vol. 139; p. 940.
- Voynow, C. B., Philadelphia, Pa. Pole-sleeve. No. 942,761; Dec. 7; Sp. p. 1503; Gaz. vol. 149; p. 247.
- Vreeland, F. K., Montclair, N. J., assignor to Wireless Telegraph Exploitation Company, New York, N. Y. Receiver for high-frequency electrical oscillations. No. 930,508; Aug. 10; Sp. p. 1787; Gaz. vol. 145; p. 321.
- Vreeland, F. K., Montclair, N. J., assignor to Wireless Telegraphy Exploitation Company, New York, N. Y. Receiving system for high-frequency electrical oscillations. No. 936,684; Oct. 12; Sp. p. 2289; Gaz. vol. 147; p. 379.
- Vroman, J. C. (See McCarthy and Vroman.)
- Vrooman, E. E., Hyattsville, Md., assignor to J. J. Ridgway, Chicago, Ill., and E. G. Thomas, Brookline, Mass. Conveyer-belt support. No. 909,833; Jan. 12; Sp. p. 2808; Gaz. vol. 138; p. 495.
- Vuillaume, E., Paris, France. Double top. No. 926,083; June 22; Sp. p. 6270; Gaz. vol. 143; p. 1080.
- Vulcan Foundry Company. (See Peck, J. E., assignor.)
- Vulcan Iron Works Company. (See Webber, J. B., Jr., assignor.)
- Vulcan Plow Company. (See Rosencranz, A. C., assignor.)
- Vulkan Maschinenfabriks-Actien-Gesellschaft. (See Ast, H., assignor.)
- W. Gassage & Sons. (See Weismüller, R. E., assignor.)
- W. Graaff & Compagnie, Ges. mit beschr. Haftung. (See Böckem, W., assignor.)
- W. D. Allen Manufacturing Company. (See Allen, W. D., assignor.)
- W. D. Allen Manufacturing Company. (See Gibbs, H., assignor.)
- W. & E. T. Fitch Co. (See Hubbard, G. M., assignor.)
- W. & E. T. Fitch Co. (See Petrie, W. E., assignor.)
- W. F. Barnes Commercial Co. (See Barnes, W. F., assignor.)
- W. F. & John Barnes Company. (See Barnes, J. S., assignor.)
- W. G. Nagel Electric Company. (See Peirce, C. L., Jr., assignor.)
- W. G. Stowell Co. (See Stowell, W. G., assignor.)
- W. H. Miner Company. (See Barber, F. L., assignor.)
- W. H. Miner Company. (See Haseltine, S. B., assignor.)
- W. H. Miner Company. (See Miner, W. H., assignor.)
- W. H. Miner Company. (See Nash, C. J., assignor.)
- W. H. Miner Company. (See O'Connor, J. F., assignor.)
- W. J. Faul Co. (See Faul, E. L., assignor.)
- W. J. Gage & Co. (See Spence, G., assignor.)
- W. J. Young Machinery Company. (See Grover, G. B., assignor.)



*Alphabetical list of patentees—Continued.*

- W. L. Kaestner Co. (See Kaestner, L., assignor.)  
W. L. McCullough Co. (See Good and McCullough, assignors.)  
W. M. Miner Company. (See O'Connor, J. F., assignor.)  
W. P. Davis Machine Co. (See Davis and Parsons, assignors.)  
W. P. Taylor Company. (See Gibney, J. W., assignor.)  
W. S. Reed Coupling Company. (See Reed, W. S., assignor.)  
W. S. Rockwell Company. (See Rockwell, W. S., assignor.)  
W. W. Kimball Company. (See Bartlett, E. B., assignor.)  
W. W. Kimball Company. (See Hiscock, E. C., assignor.)  
W. W. Kimball Company. (See Kinder, H. G., assignor.)  
Waag, A., Perrysville, Pa. Match-box. No. 914,208; Mar. 2; Sp. p. 1178; Gaz. vol. 140; p. 185.  
Wachtel, C. W., Jr., Newark, N. J. Floor-conduit and detachable cover therefor. No. 922,368; May 18; Sp. p. 4646; Gaz. vol. 142; p. 808.  
Wachtel, P., Geneseo, Ill. Wire-holder for cement posts. No. 920,407; May 4; Sp. p. 641; Gaz. vol. 142; p. 103.  
Wachter, H., Clinton, Mo. Wagon-body. No. 939,114; Nov. 2; Sp. p. 1409; Gaz. vol. 148; p. 229.  
Wachter, L. E. F., Hartford, Conn. Pendant-bow. No. 916,809; Mar. 30; Sp. p. 6361; Gaz. vol. 140; p. 1137.  
Wachtermann, E., Alvarado, Cal. Envelop. No. 943,205; Dec. 14; Sp. p. 2522; Gaz. vol. 149; p. 428.  
Wächtler, F. L., Grossenhain, Germany. Change-gear for mechanical looms. No. 930,707; Aug. 10; Sp. p. 2227; Gaz. vol. 145; p. 387.  
Wächtler, F. L., Grossenhain, Germany, assignor to Crompton & Knowles Loom Works. Loom. No. 918,801; Apr. 20; Sp. p. 3809; Gaz. vol. 141; p. 676.  
Wack, A. D., Ferguson, Mo. Mail-receiving and delivering apparatus. No. 925,966; June 22; Sp. p. 6024; Gaz. vol. 143; p. 1041.  
Wack, H. E., Baltimore, Md. Grain-screen. No. 922,220; May 18; Sp. p. 4389; Gaz. vol. 142; p. 761.  
Wacker, H., *et al.* (See Huber, G. A., assignor.)  
Wackerow, G. L. (See Braun and Wackerow.)  
Wadagaki, Y., Sasebo, Japan. System for utilizing exhaust-steam. No. 913,330; Feb. 23; Sp. p. 4764; Gaz. vol. 139; p. 853.  
Wadagaki, Y., Sasebo, Japan. Surface condenser. No. 942,423; Dec. 7; Sp. p. 810; Gaz. vol. 149; p. 133.  
Waddell, A. F., assignor of one-half to C. B. Sheldon, Los Angeles, Cal. Culinary utensil. No. 930,634; Aug. 10; Sp. p. 2089; Gaz. vol. 145; p. 364.  
Waddell, C. T., Birmingham, Ala. Electrical switchboard for theaters. No. 925,732; June 22; Sp. p. 5522; Gaz. vol. 143; p. 963.  
Waddell, J. A. L., and J. L. Harrington, Kansas City, Mo. Lift-bridge. No. 932,359; Aug. 24; Sp. p. 5764; Gaz. vol. 145; p. 984.  
Waddell, M., New York, N. Y. Drawbridge. No. 908,713; Jan. 5; Sp. p. 603; Gaz. vol. 138; p. 93.  
Waddell, M., assignor of one-half to T. J. Ryan, New York, N. Y. Reinforced concrete construction for floors, walls, ceilings, and other structures. No. 926,152; June 29; Sp. p. 6423; Gaz. vol. 143; p. 1139.  
Waddell, T. J., assignor of three-tenths to C. M. Goodell, Philbrook, Mont., one-tenth to L. C. Wood and one-tenth to C. C. David, Alden, Iowa. Fertilizer-distributor. (Reissue.) No. 12,997; July 27; Sp. p. 6091; Gaz. vol. 144; p. 1065.  
Wade, C. A., Coffinton, Ga. Can-opener. No. 912,212; Feb. 9; Sp. p. 2405; Gaz. vol. 139; p. 415.  
Wade, C. C. (See Norris, J. T., assignor.)  
Wade, C. T., U. S. Navy. Gas-engine. No. 931,531; Aug. 17; Sp. p. 4008; Gaz. vol. 145; p. 690.  
Wade, F. M., Wauwatosa, assignor to A. Geo. Schulz Co., Milwaukee, Wis. Collapsible box. No. 916,509; Mar. 30; Sp. p. 5825; Gaz. vol. 140; p. 1045.  
Wade, G. H., Atlanta, Ga. Water-heater. No. 941,215; Nov. 23; Sp. p. 6124; Gaz. vol. 148; p. 1021.  
Wade, H. B., Omaha, Neb. Combination hat and garment hook. (Reissue.) No. 12,998; July 27; Sp. p. 6094; Gaz. vol. 144; p. 1066.  
Wade, I. L., and W. L. Smith, Roanoke, Va. Locomotive-headlight. No. 936,200; Oct. 5; Sp. p. 1249; Gaz. vol. 147; p. 189.  
Wade, J. R., Millfield, Ohio. Wire-stretcher. No. 938,029; Oct. 26; Sp. p. 5067; Gaz. vol. 147; p. 872.  
Wade, T., I. Erickson, and F. Pusch, Fountain, Minn. Implement truck and gage wheel. No. 911,788; Feb. 9; Sp. p. 1495; Gaz. vol. 139; p. 280.  
Wade, W. E., Rockland, assignor to United Shoe Machinery Company, Boston, Mass. Lasting-machine. No. 944,116; Dec. 21; Sp. p. 4481; Gaz. vol. 149; p. 770.  
Wadhams, D. T., assignor to N. Gray, Jr., Oswego, N. Y. Paper-cutting machine. No. 921,757; May 18; Sp. p. 3422; Gaz. vol. 142; p. 609.  
Wadhams, M. H., Las Animas, Colo. Beet-harvester. No. 926,837; July 6; Sp. p. 273; Gaz. vol. 144; p. 44.  
Wadkin, J. W., Preston, and T. Scott-King, Penarth, England. Woodworking-machine. No. 934,484; Sept. 21; Sp. p. 3055; Gaz. vol. 146; p. 533.  
Wadleigh, P. V., Needles, Cal. Flying-machine. No. 926,913; July 6; Sp. p. 436; Gaz. vol. 144; p. 70.  
Wadleigh, W. M., Chicago, Ill. Short-turning two-wheeled tongue-truck for harvesters and other machines. No. 919,404; Apr. 27; Sp. p. 6240; Gaz. vol. 141; p. 908.  
Wadleigh, W. M., Chicago, Ill. Tongue-truck for harvesters and other machines. No. 931,902; Aug. 24; Sp. p. 4817; Gaz. vol. 145; p. 831.  
Wadsack, T. F. (See Draper, H. C., assignor.)  
Wadsworth, C. J. (See Adelson and Bliss, assignors.)  
Wadsworth, D. W., Bangor, Mich. Portable spraying apparatus. No. 932,520; Aug. 31; Sp. p. 6110; Gaz. vol. 145; p. 1060.  
Wadsworth, F. L. O., Sewickley, Pa. Teeming glass. No. 921,923; May 18; Sp. p. 3771; Gaz. vol. 142; p. 664.  
Wadsworth, F. L. O., Sewickley, Pa. Ratchet-and-pawl-actuating mechanism. No. 925,855; June 22; Sp. p. 5806; Gaz. vol. 143; p. 1005.  
Wadsworth, F. L. O., Sewickley, Pa. Treating metal. No. 936,389; Oct. 12; Sp. p. 1647; Gaz. vol. 147; p. 279.  
Wadsworth, F. L. O., Sewickley, Pa., assignor to Pressed Prism Plate Glass Company, New York, N. Y. Glass storage-battery case. No. 938,445; Oct. 26; Sp. p. 5990; Gaz. vol. 147; p. 1015.  
Wadsworth, G. A., assignor to Dennison Manufacturing Co., South Framingham, Mass. Tag-fastener. No. 938,446; Oct. 26; Sp. p. 5991; Gaz. vol. 147; p. 1015.  
Wadsworth, G. H., Cuyahoga Falls, Ohio. Core-oven. No. 916,069; Mar. 23; Sp. p. 4936; Gaz. vol. 140; p. 875.  
Wadsworth, L., Troy, N. Y. Lock for freight-car doors. No. 932,658; Aug. 31; Sp. p. 6416; Gaz. vol. 145; p. 1107.  
Waechter, F. F., and C. H. Wurster, Jr., Philadelphia, Pa., assignors to Link-Belt Company, Chicago, Ill. Clamp-operating mechanism for casting apparatus. No. 918,403; Apr. 13; Sp. p. 2918; Gaz. vol. 141; p. 514.  
Waern, A. W., Bethlehem, Pa., and C. von Philip, New York, N. Y., assignors to Bethlehem Steel Company, South Bethlehem, Pa. Machine for cutting round and oval holes. No. 934,863; Sept. 21; Sp. p. 3794; Gaz. vol. 146; p. 658.  
Waffenfabrik Mauser Actiengesellschaft, Firm of. (See Mauser, P., assignor.)  
Wagar, E. E., *et al.* (See Brodton, E. R., assignor.)  
Wagar, E. G., *et al.* (See Brodton, E. R., assignor.)  
Wagener, C. (See Mikorey and Wagener.)  
Wagenhauser, A. D., and H. J. Newland, Monroe, Mich. Cabbage-core-slitting machine. No. 927,904; July 13; Sp. p. 2513; Gaz. vol. 144; p. 428.  
Wagg, S. R., Appleton, Wis. Multiple bar construction for refining-engines. No. 930,904; Aug. 10; Sp. p. 2643; Gaz. vol. 145; p. 453.  
Wagg, S. R., Appleton, Wis. Pulp-grinder. No. 933,603; Sept. 7; Sp. p. 1318; Gaz. vol. 146; p. 194.  
Wagg, S. R., Appleton, Wis. Paper-stock-squeezing rolls. No. 933,604; Sept. 7; Sp. p. 1321; Gaz. vol. 146; p. 195.  
Waggett, J. H., La Salle, Ill. Display apparatus. No. 915,392; Mar. 16; Sp. p. 3585; Gaz. vol. 140; p. 624.  
Wagner, A. D. (See Stanbro and Wagner.)  
Wagner, B. (See Geissler, F., assignor.)  
Wagner, B., Stettin, Germany. Apparatus for treating briquets. No. 908,912; Jan. 5; Sp. p. 992; Gaz. vol. 138; p. 158.  
Wagner, C. (See Engelberg and Wagner.)  
Wagner, C., and F. X. Malocay, assignors to International Banding Machine Company, New York, N. Y. Banding-machine. No. 920,698; May 4; Sp. p. 1230; Gaz. vol. 142; p. 198.  
Wagner, C. D., Cedar Rapids, Iowa. Sheet-metal shears. No. 935,072; Sept. 28; Sp. p. 4226; Gaz. vol. 146; p. 756.  
Wagner, C. F. (See Hufschmidt and Wagner.)  
Wagner, C. W., Danville, Pa. Self-winding clock. No. 909,485; Jan. 12; Sp. p. 2128; Gaz. vol. 138; p. 377.  
Wagner, E., Cincinnati, Ohio. Scarf-pin. No. 940,094; Nov. 16; Sp. p. 3652; Gaz. vol. 148; p. 623.  
Wagner, E. E., Lamar, Mo. Portable holder for films and illustrated-song outfits. No. 940,757; Nov. 23; Sp. p. 5132; Gaz. vol. 148; p. 874.  
Wagner Electric Manufacturing Company. (See Begole, J. F., assignor.)  
Wagner Electric & Manufacturing Company. (See Schnur, C. A., assignor.)  
Wagner Electric Manufacturing Company. (See Selinger, H. F., assignor.)  
Wagner Electric Manufacturing Company. (See Timmerman, A. H., assignor.)  
Wagner, F., New York, N. Y., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Gapped wheel. No. 923,467; June 1; Sp. p. 797; Gaz. vol. 143; p. 119.  
Wagner, F., assignor of one-third to J. M. Betz and one-third to F. F. Hammer, Newport, Ky. Steam-boiler furnace. No. 937,898; Oct. 26; Sp. p. 4790; Gaz. vol. 147; p. 828.  
Wagner, F. H., assignor to Bartlett, Hayward & Co., Baltimore, Md. Hoisting and suspension apparatus. No. 917,686; Apr. 6; Sp. p. 1404; Gaz. vol. 141; p. 247.

*Alphabetical list of patentees—Continued.*

- Wagner, F. H., assignor to Bartlett, Hayward & Co., Baltimore, Md. Gas-holder. No. 917,687; Apr. 6; Sp. p. 1407; Gaz. vol. 141; p. 248.
- Wagner, F. H., assignor to Bartlett, Hayward & Co., Baltimore, Md. Means for controlling the feed of oil and steam in the manufacture of gas. No. 926,628; June 29; Sp. p. 7339; Gaz. vol. 143; p. 1295.
- Wagner, F. X., assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 918,103; Apr. 13; Sp. p. 2321; Gaz. vol. 141; p. 416.
- Wagner, F. X., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. (Reissue.) No. 12,970; June 8; Sp. p. 3294; Gaz. vol. 143; p. 538.
- Wagner, G. W., Huntersville, W. Va. Railway-tie. No. 935,133; Sept. 28; Sp. p. 4355; Gaz. vol. 146; p. 776.
- Wagner, J. (See Wagner, N. and J.)
- Wagner, J., Rochester, N. Y. Fruit-basket. No. 934,485; Sept. 21; Sp. p. 3061; Gaz. vol. 146; p. 533.
- Wagner, J., and J. Ferencz, Cleveland, Ohio. Core-forming material. No. 921,030; May 11; Sp. p. 1902; Gaz. vol. 142; p. 337.
- Wagner, J. W., Marietta, Ohio. Drop-hammer. No. 916,231; Mar. 23; Sp. p. 5241; Gaz. vol. 140; p. 926.
- Wagner, L. (See Jerseman and Wagner.)
- Wagner Manufacturing Company. (See Henle, E. M., assignor.)
- Wagner Manufacturing Company. (See Meyer and Caldbeck, assignors.)
- Wagner Manufacturing Company. (See Wulff, A., assignor.)
- Wagner, N. and J., Caldwell, Idaho. Windmill. No. 930,905; Aug. 10; Sp. p. 2644; Gaz. vol. 145; p. 453.
- Wagner, P. F., assignor of one-half to J. W. White, Greensburg, Ind. Adjustable drop-light. No. 929,639; July 27; Sp. p. 6075; Gaz. vol. 144; p. 1062.
- Wagner, T. B., Chicago, Ill. Preserved milk. No. 934,641; Sept. 21; Sp. p. 3366; Gaz. vol. 146; p. 586.
- Wagner, W. F., Detroit, Mich., and W. E. Shiels, assignors to Gravity Lockout Company, Toledo, Ohio. Lock-out for party-line telephones. No. 914,468; Mar. 9; Sp. p. 1716; Gaz. vol. 140; p. 295.
- Wagner, W. S., assignor to L. P. Smith, Syracuse, N. Y. Fly-trap. No. 909,041; Jan. 5; Sp. p. 1238; Gaz. vol. 138; p. 199.
- Wagniere, A., assignor to E. W. Peck and T. R. Owen, Los Angeles, Cal. Pencil-vending machine. No. 931,903; Aug. 24; Sp. p. 4827; Gaz. vol. 145; p. 831.
- Wagoner, H. V., Brooklyn, N. Y. Binder. No. 938,621; Nov. 2; Sp. p. 398; Gaz. vol. 148; p. 60.
- Wahl, B. (See Lamberty, J., assignor.)
- Wahl, B., and J. Lamberty, Kewanee, Ill. Music-leaf turner. No. 921,124; May 11; Sp. p. 2101; Gaz. vol. 142; p. 370.
- Wahl, J., Basel, Switzerland. Extensible support for cooking vessels. No. 927,300; July 6; Sp. p. 1220; Gaz. vol. 144; p. 200.
- Wahlberg, A. F., Perth Amboy, N. J. Sash-balance. No. 929,805; Aug. 3; Sp. p. 376; Gaz. vol. 145; p. 62.
- Wahlberg, J., New York, N. Y. Indicating micrometer-gage. No. 937,662; Oct. 19; Sp. p. 4283; Gaz. vol. 147; p. 731.
- Waid, I. E., et al. (See Waid, W. H., assignor.)
- Waid, O. J., et al. (See Waid, W. H., assignor.)
- Waid, W. H., Rice, assignor to O. J. Waid, St. Paul, J. Gazett and I. F. Waid, Rice, Minn. Strainer. No. 919,797; Apr. 27; Sp. p. 6059; Gaz. vol. 141; p. 1042.
- Wain, A., Chicago, Ill. Automatic leveling apparatus. No. 925,058; June 15; Sp. p. 4200; Gaz. vol. 143; p. 715.
- Waindzioch, A. (See Bollbach and Waindzioch.)
- Wainwright, C., Erie, Pa. Valve. No. 931,532; Aug. 17; Sp. p. 4009; Gaz. vol. 145; p. 691.
- Wainwright, C., Erie, Pa. Valve. No. 938,292; Oct. 26; Sp. p. 5630; Gaz. vol. 147; p. 963.
- Wais, C. C., Cincinnati, Ohio. Water-wheel. No. 937,491; Oct. 19; Sp. p. 3971; Gaz. vol. 147; p. 674.
- Wait, H. H., Chicago, Ill. Steam-equalizer. No. 938,356; Oct. 26; Sp. p. 5797; Gaz. vol. 147; p. 984.
- Wait, H. H., Chicago, Ill. Apparatus for utilizing exhaust-steam. No. 938,357; Oct. 26; Sp. p. 5800; Gaz. vol. 147; p. 984.
- Wait, W. B., New York, N. Y. Apparatus for embossing punctographic writing. No. 910,330; Jan. 19; Sp. p. 3882; Gaz. vol. 138; p. 698.
- Waite, C. B., Mexico, Mexico. Compound for the treatment of photographic prints. No. 930,578; Aug. 10; Sp. p. 1965; Gaz. vol. 145; p. 346.
- Waite, F., Otley, England. Feeding mechanism. No. 913,929; Mar. 2; Sp. p. 560; Gaz. vol. 140; p. 90.
- Waite, F., Otley, England. Printing-press. No. 923,220; June 1; Sp. p. 208; Gaz. vol. 143; p. 34.
- Waite, F., Otley, England, assignor to J. J. Palmer, Toronto, Canada. Machine for printing shop-counter check-books and the like. No. 918,104; Apr. 13; Sp. p. 2328; Gaz. vol. 141; p. 417.
- Waite, G. B., New York, N. Y. Rib for walls and the like. No. 932,197; Aug. 24; Sp. p. 5469; Gaz. vol. 145; p. 931.
- Waite, H. C., assignor of one-half to N. A. Christensen, Milwaukee, Wis. Transmission mechanism for automobiles. No. 912,513; Feb. 16; Sp. p. 3078; Gaz. vol. 139; p. 554.
- Waite, J. H., Brockton, Mass. Boot or shoe. No. 918,615; Apr. 20; Sp. p. 3383; Gaz. vol. 141; p. 612.
- Waite, W. G., Fremont, assignor to National Carbon Company, Cleveland, Ohio. Dry-battery-posting machine. No. 921,186; May 11; Sp. p. 2225; Gaz. vol. 142; p. 392.
- Waltz, C. A., Rouseville, Pa. Casing-head. No. 910,885; Jan. 26; Sp. p. 5017; Gaz. vol. 138; p. 904.
- Wakefield, C. C., London, England. Force-feed lubricator. No. 912,337; Feb. 16; Sp. p. 2716; Gaz. vol. 139; p. 495.
- Wakefield, E., et al. (See Westhaver, J., assignor.)
- Wakefield, F. W., Vermillion, Ohio. Lighting-fixture. No. 925,143; June 15; Sp. p. 4361; Gaz. vol. 143; p. 744.
- Wakefield, F. W., Vermillion, Ohio. Chain. No. 937,663; Oct. 19; Sp. p. 4289; Gaz. vol. 147; p. 731.
- Wakefield, H. W., and C. F. Harter, Seattle, Wash. Combined creel and kit. No. 938,293; Oct. 26; Sp. p. 5632; Gaz. vol. 147; p. 963.
- Wakeley, R. B., Philadelphia, Pa. Tack-lifter. No. 941,476; Nov. 30; Sp. p. 6692; Gaz. vol. 148; p. 1134.
- Wakeman, A., Syracuse, N. Y. Truss. No. 932,074; Aug. 24; Sp. p. 5218; Gaz. vol. 145; p. 890.
- Wakeman, B. S., assignor of one-half to E. P. Reynolds, Scranton, Pa. Portable bank. No. 928,483; July 20; Sp. p. 3709; Gaz. vol. 144; p. 652.
- Wakler, W. H., Norwood, England. Cock or valve. No. 913,861; Mar. 2; Sp. p. 402; Gaz. vol. 140; p. 66.
- Walberg, B., Worcester, Mass. Drum. No. 929,175; July 27; Sp. p. 5117; Gaz. vol. 144; p. 909.
- Walbridge, H. L., assignor to Chandler Company, Springfield, Mass. Tire. No. 936,837; Oct. 12; Sp. p. 2583; Gaz. vol. 147; p. 431.
- Walbridge, T. H., Toledo, Ohio. Wheel. No. 911,926; Feb. 9; Sp. p. 1752; Gaz. vol. 139; p. 324.
- Walbridge, T. H., Toledo, Ohio. Spoke. No. 922,737; May 25; Sp. p. 5441; Gaz. vol. 142; p. 958.
- Walbridge, T. H., Toledo, Ohio. Axle. No. 925,537; June 22; Sp. p. 5112; Gaz. vol. 143; p. 900.
- Walchner, C. A., Frankfurt-on-the-Main, Germany. Window with wings adapted to be opened outward and inward. No. 926,522; June 29; Sp. p. 7133; Gaz. vol. 143; p. 1260.
- Walcott, C. D., Washington, D. C. Spike. No. 927,301; July 6; Sp. p. 1221; Gaz. vol. 144; p. 201.
- Walcutt, J. M., New York, N. Y. Post-card. No. 930,108; Aug. 3; Sp. p. 1026; Gaz. vol. 145; p. 165.
- Waldburger, J. A., assignor to Forter-Miller Engineering Company, McKeesport, Pa. Gas-producer. No. 913,591; Feb. 23; Sp. p. 5314; Gaz. vol. 139; p. 940.
- Waldeen, H. C., assignor of one-half to J. Keenan, Austin, Minn. Lock. No. 930,000; Aug. 3; Sp. p. 803; Gaz. vol. 145; p. 128.
- Walder, F. E., Worcester, Mass. Combination ratchet-wrench. No. 912,338; Feb. 16; Sp. p. 2718; Gaz. vol. 139; p. 496.
- Walden, F. E., Worcester, Mass. Bracket. No. 936,061; Oct. 5; Sp. p. 979; Gaz. vol. 147; p. 147.
- Walden, F. E., assignor to Walden Manufacturing Company, Worcester, Mass. Ratchet-wrench. No. 928,719; July 20; Sp. p. 4185; Gaz. vol. 144; p. 729.
- Walden, J. A., Dover, Okla. Adjustable support. No. 919,405; Apr. 27; Sp. p. 5246; Gaz. vol. 141; p. 909.
- Walden Manufacturing Company. (See Walden, F. E., assignor.)
- Walder, A., Archbold, Ohio. Fluid-tight rotary joint for pipes. No. 929,734; Aug. 3; Sp. p. 205; Gaz. vol. 145; p. 36.
- Waldie, F. (See Puckett, W. J., assignor.)
- Waldmann, G., Geestmünde, Germany. Closure for bottles. No. 920,794; May 4; Sp. p. 1423; Gaz. vol. 142; p. 230.
- Waldrip, C. W., and G. D. Pope, San Pedro, Cal. Truing-gage. No. 913,331; Feb. 23; Sp. p. 4766; Gaz. vol. 139; p. 853.
- Waldron, C. D., New York, N. Y. Photographic developing apparatus. No. 926,153; June 29; Sp. p. 6425; Gaz. vol. 143; p. 1139.
- Waldron, E. D., assignor of one-half to E. G. Palmer, Folsom, Cal. Automatic ignition-regulator. No. 924,119; June 8; Sp. p. 2198; Gaz. vol. 143; p. 366.
- Waldron, J. M., Yonkers, N. Y., assignor to Union Switch & Signal Company, Swissvale, Pa. Signaling system for railways. No. 921,758; May 18; Sp. p. 3425; Gaz. vol. 142; p. 610.
- Waldschmitt, F., Jr., Rockaway Beach, N. Y. Handle-cap for dress-suit cases, traveling-bags, and the like. No. 933,936; Sept. 14; Sp. p. 1980; Gaz. vol. 146; p. 326.
- Waldt, A., St. Louis, Mo. Matrix making and drying machine. No. 927,615; July 13; Sp. p. 1888; Gaz. vol. 144; p. 333.
- Wales, C., Cleveland, Ohio. Adding-machine. No. 940,758; Nov. 23; Sp. p. 5133; Gaz. vol. 148; p. 874.
- Wales, E. L., Monson, Mass., assignor to Heimann & Lichten, New York, N. Y. Fabric-reducing machine for felt hats. No. 930,001; Aug. 3; Sp. p. 805; Gaz. vol. 145; p. 129.
- Wales, E. L., Monson, Mass., assignor to Heimann & Lichten, New York, N. Y. Felt hat. No. 941,746; Nov. 30; Sp. p. 7255; Gaz. vol. 148; p. 1224.
- Wales, N. B., Braintree, Mass. Heating apparatus. No. 940,567; Nov. 16; Sp. p. 4715; Gaz. vol. 148; p. 785.



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- Wales, S. S., Munhall, assignor to Carnegie Steel Company, Pittsburg, Pa. Ballistic plate. No. 921,924; May 18; Sp. p. 3773; Gaz. vol. 142; p. 664.
- Wales, S. S., Munhall, assignor to Carnegie Steel Company, Pittsburg, Pa. Treating armor or deck plates. No. 921,925; May 18; Sp. p. 3775; Gaz. vol. 142; p. 664.
- Wales, S. S., Munhall, assignor to Carnegie Steel Company, Pittsburg, Pa. Toughening steel. No. 928,347; July 20; Sp. p. 3449; Gaz. vol. 144; p. 608.
- Wales, S. S., Munhall, assignor to Carnegie Steel Company, Pittsburg, Pa. Ballistic plate. No. 928,348; July 20; Sp. p. 3449; Gaz. vol. 144; p. 608.
- Wales, S. S., Munhall, assignor to Carnegie Steel Company, Pittsburg, Pa. Treating armor-plate. No. 941,477; Nov. 30; Sp. p. 6693; Gaz. vol. 148; p. 1134.
- Walsh, A. G., assignor of one-half to Cascade Gas & Electric Fixture Co., Seattle, Wash. Electric ceiling-fixture. No. 937,342; Oct. 19; Sp. p. 3635; Gaz. vol. 147; p. 625.
- Walker, A., Mount Gambier, South Australia, Australia. Pencil-case and other cylinder. No. 924,406; June 8; Sp. p. 2841; Gaz. vol. 143; p. 464.
- Walker, A. C. (See Walker, F. E. and A. C.)
- Walker, A. C., *et al.* (See Parker, T. A., assignor.)
- Walker, B., Jr., Austin, Tex. Flush-tank. No. 938,294; Oct. 26; Sp. p. 5633; Gaz. vol. 147; p. 963.
- Walker, B. O., Tacoma, Wash. Camera. No. 910,750; Jan. 26; Sp. p. 4763; Gaz. vol. 138; p. 861.
- Walker Brothers, Wigan, Limited. (See Thomas, F., assignor.)
- Walker, C., Charleston, S. C. Cuff-holder. No. 923,738; June 1; Sp. p. 1364; Gaz. vol. 143; p. 213.
- Walker, C., Charleston, S. C. Automatic valve-operating mechanism. No. 944,927; Dec. 28; Sp. p. 6237; Gaz. vol. 149; p. 1072.
- Walker, C. T., Leeds, England. Loom-picker. No. 929,352; July 27; Sp. p. 5537; Gaz. vol. 144; p. 970.
- Walker, C. V., Bozeman, Mont. Ventilating device for windows. No. 937,899; Oct. 26; Sp. p. 4791; Gaz. vol. 147; p. 828.
- Walker, D. E., Indianapolis, Ind. Shield for rubber tires. No. 920,699; May 4; Sp. p. 1251; Gaz. vol. 142; p. 199.
- Walker, D. E., Indianapolis, Ind. Shield for rubber tires. No. 920,795; May 4; Sp. p. 1423; Gaz. vol. 142; p. 230.
- Walker, E. J., assignor of one-half to E. F. Yost, Johnsonburg, Pa. Tonges. No. 928,090; July 13; Sp. p. 2866; Gaz. vol. 144; p. 489.
- Walker, E. L., St. Louis, Mo. Knockdown or foldable box. No. 917,384; Apr. 6; Sp. p. 865; Gaz. vol. 141; p. 148.
- Walker, E. M. (See Brady, J. W., assignor.)
- Walker Electric Company. (See Walker and Van Valkenburg, assignors.)
- Walker, F., Los Angeles, Cal. Incandescent-electric-lamp holder. No. 910,158; Jan. 19; Sp. p. 3472; Gaz. vol. 138; p. 635.
- Walker, F. E., *et al.* (See Parker, T. A., assignor.)
- Walker, F. E. and A. C., River Point, R. I. Electric-light cord or cable adjuster. No. 914,768; Mar. 9; Sp. p. 2350; Gaz. vol. 140; p. 394.
- Walker, F. J., New Rochelle, N. Y. Composer's bracket-cabinet. No. 930,579; Aug. 10; Sp. p. 1966; Gaz. vol. 145; p. 346.
- Walker, G., assignor to Landers, Frary and Clark, New Britain, Conn. Price-scale. No. 909,486; Jan. 12; Sp. p. 2130; Gaz. vol. 138; p. 378.
- Walker, G., New York, N. Y., assignor to H. T. Yaryan, Toledo, Ohio. Extracting resin and turpentine. No. 922,369; May 18; Sp. p. 4659; Gaz. vol. 142; p. 808.
- Walker, G. C. (See Morehouse, B. J., assignor.)
- Walker, G. M., Lincoln, Nebr. Refrigerator. No. 915,515; Mar. 16; Sp. p. 3814; Gaz. vol. 140; p. 663.
- Walker, G. M., St. Louis, Mo. Apparatus for drying veneering. No. 922,983; May 25; Sp. p. 5947; Gaz. vol. 142; p. 1037.
- Walker, G. S., Lemont, Ill. Food-steaming tray. No. 935,177; Sept. 28; Sp. p. 4434; Gaz. vol. 146; p. 790.
- Walker, G. W., *et al.* (See Estes, W. B., assignor.)
- Walker, H., Modena, Pa. Damper-regulator. No. 912,213; Feb. 9; Sp. p. 2407; Gaz. vol. 139; p. 415.
- Walker, H., Knights, Transvaal. Composition for oxidizing and purifying explosion-gases. No. 925,670; June 22; Sp. p. 5385; Gaz. vol. 143; p. 943.
- Walker, H. Wilmington, Del. Pan-lifter. No. 938,187; Oct. 26; Sp. p. 5428; Gaz. vol. 147; p. 926.
- Walker, H., Attleboro, Mass., assignor to George H. Cahoon Company. Setting. No. 921,759; May 18; Sp. p. 3430; Gaz. vol. 142; p. 610.
- Walker, H. B., Mount Vernon, Ohio, assignor to Oil Well Supply Company, Pittsburg, Pa. Well-drilling apparatus. No. 931,101; Aug. 17; Sp. p. 3107; Gaz. vol. 145; p. 545.
- Walker, H. D., Grimsby, Ontario, Canada, assignor of one-half to D. W. Sowers, Buffalo, N. Y. Split pulley. No. 937,742; Oct. 19; Sp. p. 4461; Gaz. vol. 147; p. 756.
- Walker, H. E., Chicago, Ill. Dry-graphite lubricator. No. 918,616; Apr. 20; Sp. p. 3386; Gaz. vol. 141; p. 613.
- Walker, H. K., Kankakee, Ill. Garment fastener and supporter. No. 928,091; July 13; Sp. p. 2868; Gaz. vol. 144; p. 489.
- Walker, H. S., and H. L. Van Valkenburg, assignors to Walker Electric Company, Philadelphia, Pa. Panel-board. No. 926,154; June 29; Sp. p. 6427; Gaz. vol. 143; p. 1139.
- Walker, J. (See Lapham and Walker.)
- Walker, J., *et al.* (See Osten, J. H., assignor.)
- Walker, J., Boston, Mass. Grinding-mill. No. 938,923; Nov. 2; Sp. p. 1042; Gaz. vol. 148; p. 165.
- Walker, J., Jr. (See Hewitt, J. H., assignor.)
- Walker, J., Jr., Putney, London, England. File, temporary binder, loose-leaf book, and the like. No. 920,508; May 4; Sp. p. 841; Gaz. vol. 142; p. 135.
- Walker, J., Jr., London, England. Temporary binder, file, loose-leaf book, and the like. No. 931,819; Aug. 24; Sp. p. 4654; Gaz. vol. 145; p. 806.
- Walker, J. A. (See Gould, E. J., assignor.)
- Walker, J. A., Los Angeles, Cal. Combined portable folding cot and tent. No. 925,059; June 15; Sp. p. 4202; Gaz. vol. 143; p. 715.
- Walker, J. D. (See Farls and Walker.)
- Walker, J. D., Brisbin, Pa. Garment-support. No. 915,393; Mar. 16; Sp. p. 3587; Gaz. vol. 140; p. 624.
- Walker, J. H., Lexington, Ky. Trolley-pole catcher. No. 941,216; Nov. 23; Sp. p. 6125; Gaz. vol. 148; p. 1027.
- Walker, J. J., London, England. Automatic player for musical instruments. No. 911,789; Feb. 9; Sp. p. 1496; Gaz. vol. 139; p. 280.
- Walker, J. L., Mobile, Ala. Coupling. No. 934,028; Sept. 14; Sp. p. 2152; Gaz. vol. 146; p. 356.
- Walker, J. S., and S. N. Wilcox, Pittsburg, Pa. Heater. No. 918,935; Apr. 20; Sp. p. 4111; Gaz. vol. 141; p. 722.
- Walker, L. C., and C. E. Wilson, assignors to Shaw-Walker Company, Muskegon, Mich. Drawer attachment for desks. No. 923,739; June 1; Sp. p. 1367; Gaz. vol. 143; p. 213.
- Walker, M., New York, N. Y. Depressible-runner dirigible sled. No. 940,221; Nov. 16; Sp. p. 3935; Gaz. vol. 148; p. 669.
- Walker, M., Hale, England, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Brush-holder for dynamo-electric machines. No. 909,834; Jan. 12; Sp. p. 2812; Gaz. vol. 138; p. 495.
- Walker Manufacturing Company. (See Rasmussen, L. T., assignor.)
- Walker, N., Newkirk, Okla. Lawn-mower. No. 937,977; Oct. 26; Sp. p. 4954; Gaz. vol. 147; p. 854.
- Walker, R., Plymouth, England. Driving and braking mechanism for cycles and the like. No. 913,332; Feb. 23; Sp. p. 4768; Gaz. vol. 139; p. 853.
- Walker, R. A., and J. V. Parrish, Skidmore, Mo. Combination sewing-material holder. No. 942,802; Dec. 7; Sp. p. 1581; Gaz. vol. 149; p. 260.
- Walker, R. L., Brooklyn, N. Y. Smoke-consuming furnace. No. 911,688; Feb. 9; Sp. p. 1329; Gaz. vol. 139; p. 247.
- Walker, R. L., Brooklyn, N. Y., assignor, by mesne assignments, to M. Green, Boston, Mass., and J. N. Catlow, New York, N. Y., trustees. Furnace. No. 908,913; Jan. 5; Sp. p. 993; Gaz. vol. 138; p. 159.
- Walker, R. S., *et al.* (See Perry, C. S., assignor.)
- Walker, T. H., Missoula, Mont. Excavator. No. 916,232; Mar. 23; Sp. p. 5244; Gaz. vol. 140; p. 926.
- Walker, W., assignor to C. L. Fetterly, Philadelphia, Pa. Woven fabric. No. 932,198; Aug. 24; Sp. p. 5470; Gaz. vol. 145; p. 931.
- Walker, W., Shields, and H. W. Croft, assignors to Harbison-Walker Refractories Company, Pittsburg, Pa. Reducing rock for refractory material. No. 909,835; Jan. 12; Sp. p. 2813; Gaz. vol. 138; p. 496.
- Walker, W. H., Racine, Wis. Rail-anchor. No. 911,856; Feb. 9; Sp. p. 1623; Gaz. vol. 139; p. 301.
- Walker, W. O. (See Mitchell and Walker.)
- Walker, W. R., Pelahatchee, Miss. Iron-cutter. No. 914,620; Mar. 9; Sp. p. 2029; Gaz. vol. 140; p. 345.
- Walker, W. R., New York, N. Y. Manufacture of steel. No. 934,247; Sept. 14; Sp. p. 2599; Gaz. vol. 146; p. 430.
- Walkup, S. T. (See Peto, J. T., assignor.)
- Walkup, S. T. (See Pfister, L. F., assignor.)
- Wall, J. H., Bristol, R. I. Apparatus for varnishing rubber shoes. No. 918,228; Apr. 13; Sp. p. 2574; Gaz. vol. 141; p. 459.
- Wall, J. M. (See Baham and Carr, assignors.)
- Wall, W., Bradford, England. Coat hanger or suspender. No. 919,501; Apr. 27; Sp. p. 5488; Gaz. vol. 141; p. 943.
- Wall, W. A., Marianna, Ark. Fastener. No. 944,225; Dec. 21; Sp. p. 4687; Gaz. vol. 149; p. 803.
- Wall, W. J. (See Derby, S. B., assignor.)
- Wallace, E., New York, N. Y. Spoon-rest. No. 927,088; July 6; Sp. p. 823; Gaz. vol. 144; p. 132.

*Alphabetical list of patentees—Continued.*

- Wallace, E. D. (See Adams and Wallace.)  
 Wallace, E. D., Minneapolis, Minn., assignor, by mesne assignments, to Adams Letter Folding Machine Company, Chicago, Ill. Folding-machine. No. 941,747; Nov. 30; Sp. p. 7256; Gaz. vol. 148; p. 1224.  
 Wallace, E. L., and F. Meyer, assignors to Shredded Wheat Company, Niagara Falls, N. Y. Drier. No. 922,070; May 18; Sp. p. 4068; Gaz. vol. 142; p. 711.  
 Wallace, E. W., Detroit, Mich. Pneumatic-tube switch. No. 933,406; Sept. 7; Sp. p. 835; Gaz. vol. 146; p. 130.  
 Wallace, F. C. (See Forsyth and Wallace.)  
 Wallace, G. L., Girard, Ala., and H. Hart, Gentian, Ga. Letter-box support. No. 910,613; Jan. 26; Sp. p. 4487; Gaz. vol. 138; p. 818.  
 Wallace, G. L., Bridgeport, Conn. Electroplating-tank. No. 943,721; Dec. 21; Sp. p. 3654; Gaz. vol. 149; p. 635.  
 Wallace, G. L., Bridgeport, Conn., and R. Dow, assignors to Dow Chemical Mfg. Co., Mansfield, Ohio. Belt-tightener. No. 934,248; Sept. 14; Sp. p. 2600; Gaz. vol. 146; p. 430.  
 Wallace, G. W., Irma, Mo. Combined wedge and balancing-weight for axes. No. 935,712; Oct. 5; Sp. p. 191; Gaz. vol. 147; p. 30.  
 Wallace, H. C., Salt Lake City, Utah. Station-indicator. No. 922,984; May 25; Sp. p. 5948; Gaz. vol. 142; p. 1037.  
 Wallace, H. M., Clovis, N. Mex. Ter. Wind-wheel for windmills. No. 932,521; Aug. 31; Sp. p. 6112; Gaz. vol. 145; p. 1060.  
 Wallace, H. P., assignor of one-half to A. J. Archambo, Minneapolis, Minn. Water-closet vent. No. 917,385; Apr. 6; Sp. p. 866; Gaz. vol. 141; p. 149.  
 Wallace Invalid Bed Company. (See Mitchell, F. W., assignor.)  
 Wallace, J. E., assignor of two-fifths to J. Burke, Los Angeles, Cal. Child's chair. No. 936,685; Oct. 12; Sp. p. 2291; Gaz. vol. 147; p. 380.  
 Wallace, J. H., New York, N. Y. Paper-making machine. No. 940,950; Nov. 23; Sp. p. 5539; Gaz. vol. 148; p. 938.  
 Wallace, J. M., Spartanburg, S. C. Safety-razor. No. 913,076; Feb. 23; Sp. p. 4237; Gaz. vol. 139; p. 767.  
 Wallace, J. N., assignor to Vote-Berger Company, La Crosse, Wis. Telephone system. No. 940,994; Nov. 23; Sp. p. 5618; Gaz. vol. 148; p. 952.  
 Wallace, J. T., New York, N. Y. Apparatus for manufacturing letters and other characters. No. 909,487; Jan. 12; Sp. p. 2135; Gaz. vol. 138; p. 378.  
 Wallace, L., *et al.* (See Burks, W. E., assignor.)  
 Wallace, R. H. (See Weimer and Wallace.)  
 Wallace, R. H., New Brighton, assignor of one-third to F. J. Lucius, Bellevue, and one-third to W. F. Seefeldt, Beaver Falls, Pa. Pneumatic tool. No. 941,748; Nov. 30; Sp. p. 7258; Gaz. vol. 148; p. 1224.  
 Wallace, R. S., Forney, Tex. Head-rest for barbers' chairs. No. 937,343; Oct. 19; Sp. p. 3636; Gaz. vol. 147; p. 625.  
 Wallace, W., Sydney, Nova Scotia, Canada. Rail-fastener. No. 911,790; Feb. 9; Sp. p. 1501; Gaz. vol. 139; p. 280.  
 Wallace, W., Sydney, Nova Scotia, Canada. Railway-rail joint. No. 939,358; Nov. 9; Sp. p. 2010; Gaz. vol. 148; p. 340.  
 Wallace, W. E. (See Betz and Wallace.)  
 Walder, C. E., Hawthorn, and H. M. Ashton, Coburg, Victoria, Australia. Skinning and cutting tool. No. 941,829; Nov. 30; Sp. p. 7456; Gaz. vol. 148; p. 1252.  
 Wallén, K. P., assignor to M. Wallén, Providence, R. I. Massage apparatus. No. 916,637; Mar. 30; Sp. p. 6059; Gaz. vol. 140; p. 1086.  
 Wallén, M. (See Wallén, K. P., assignor.)  
 Waller, A. E., Pawtucket, R. I. Cutting-tool. No. 939,359; Nov. 9; Sp. p. 2017; Gaz. vol. 148; p. 341.  
 Waller, C., Seattle, Wash. Wrench. No. 911,096; Feb. 2; Sp. p. 142; Gaz. vol. 139; p. 27.  
 Waller, W. E., Charles City, Iowa. Wire-tightener. No. 913,590; Feb. 23; Sp. p. 5313; Gaz. vol. 139; p. 940.  
 Wallerstein, A., St. Louis, Mo. Steam-generator. No. 930,817; Aug. 10; Sp. p. 2453; Gaz. vol. 145; p. 424.  
 Wallerstein, M., New York, N. Y. Composition of matter for use in preparing fermented beverages. No. 908,630; Jan. 5; Sp. p. 417; Gaz. vol. 138; p. 67.  
 Walles, H. J., Coal Creek, near Roxburgh, New Zealand. Life-boat for submarine vessels. No. 932,921; Aug. 31; Sp. p. 6937; Gaz. vol. 145; p. 1192.  
 Walley, A. S., Stanford University, Cal. Rack. No. 921,926; May 18; Sp. p. 3776; Gaz. vol. 142; p. 664.  
 Wallin, G. E., and D. F. Shryock, Kansas City, Mo. Knife-wiping device. No. 937,664; Oct. 19; Sp. p. 4290; Gaz. vol. 147; p. 732.  
 Walling, T. S., Passaic, N. J. Holder for surgical instruments. No. 934,486; Sept. 21; Sp. p. 3063; Gaz. vol. 146; p. 533.  
 Wallner, M., and M. Owens, Bedford, Ind. Stone-sawing machine. No. 936,748; Oct. 12; Sp. p. 2408; Gaz. vol. 147; p. 401.  
 Walls, J. W., Trinidad, Colo. Switch-frog. No. 909,351; Jan. 12; Sp. p. 1865; Gaz. vol. 138; p. 334.  
 Walls, J. W., Jr., Cheshunt, England. Siphon-discharge flushing-cistern. No. 926,155; June 29; Sp. p. 6429; Gaz. vol. 143; p. 1139.  
 Walls Limited. (See Morgan and Densley, assignors.)  
 Wallischlaeger, O., Milwaukee, Wis. Fastening for threshing-machine teeth. No. 923,221; June 1; Sp. p. 210; Gaz. vol. 143; p. 35.  
 Wallstein, M., assignor to M. Cohn & Co., New York, N. Y. Corset-clasp. No. 931,820; Aug. 24; Sp. p. 4655; Gaz. vol. 145; p. 806.  
 Wallwork, R., Manchester, England. Gear-generating machine. No. 915,811; Mar. 23; Sp. p. 4449; Gaz. vol. 140; p. 700.  
 Wallwork, W. B., Kansas City, Mo. Carcass-splitting machine. No. 910,614; Jan. 26; Sp. p. 4488; Gaz. vol. 138; p. 818.  
 Walmsley, D. C., Indianapolis, Ind. Smoke-consuming furnace. No. 910,032; Jan. 19; Sp. p. 3223; Gaz. vol. 138; p. 594.  
 Walpole, B. M., Providence, R. I. Elevator. No. 933,506; Sept. 7; Sp. p. 1130; Gaz. vol. 146; p. 162.  
 Walpuski, T. G. (See Phillipson, E., assignor.)  
 Walrath, A. A., Fort Plain, N. Y. Merry-go-round. No. 929,523; July 27; Sp. p. 5825; Gaz. vol. 144; p. 1023.  
 Walrath, L. L., Sacramento, Cal. Sign. No. 935,713; Oct. 5; Sp. p. 192; Gaz. vol. 147; p. 30.  
 Walrod, F. B., and W. S. May, Brandon, Miss. Addressing-machine. No. 914,999; Mar. 9; Sp. p. 2764; Gaz. vol. 140; p. 467.  
 Walser, J. B., Lebanon, Mo. Gate-latch. No. 928,825; July 20; Sp. p. 4390; Gaz. vol. 144; p. 765.  
 Walser, J. J., assignor to Goss Printing Press Company, Chicago, Ill. Rotary folding mechanism for printing-presses. No. 926,223; June 29; Sp. p. 6588; Gaz. vol. 143; p. 1163.  
 Walser, J. J., assignor to Goss Printing Press Company, Chicago, Ill. Driving mechanism. No. 940,095; Nov. 16; Sp. p. 3653; Gaz. vol. 148; p. 623.  
 Walser, J. J., assignor to Goss Printing Press Company, Chicago, Ill. Variable-speed driving mechanism. No. 940,096; Nov. 16; Sp. p. 3662; Gaz. vol. 148; p. 624.  
 Walser, J. J., assignor to Goss Printing Press Company, Chicago, Ill. Variable-speed driving mechanism. No. 940,626; Nov. 16; Sp. p. 4825; Gaz. vol. 148; p. 804.  
 Walsh, C. J. (See Hughes, T., assignor.)  
 Walsh, F. X. (See Cohen and Walsh.)  
 Walsh, J., Atchison, Kans. Identification device. No. 919,983; Apr. 27; Sp. p. 6455; Gaz. vol. 141; p. 1103.  
 Walsh, J. C., Baltimore, Md. Shoe-shining bracket. No. 915,516; Mar. 16; Sp. p. 3815; Gaz. vol. 140; p. 664.  
 Walsh, J. D., St. Louis, Mo. Display-rack. No. 928,292; July 20; Sp. p. 3341; Gaz. vol. 144; p. 589.  
 Walsh, J. F. (See Johns and Stevens, assignors.)  
 Walsh, J. J., Syracuse, N. Y. Ticket-holder. No. 909,972; Jan. 19; Sp. p. 3111; Gaz. vol. 138; p. 576.  
 Walsh, J. J., assignor to Yonkers Specialty Company, Yonkers, N. Y. Electric connector. No. 918,617; Apr. 20; Sp. p. 3389; Gaz. vol. 141; p. 613.  
 Walsh, J. R., Boston, Mass. Signal system. No. 918,229; Apr. 13; Sp. p. 2575; Gaz. vol. 141; p. 459.  
 Walsh, P. J., Detroit, Mich. Disinfecting apparatus. No. 940,097; Nov. 16; Sp. p. 3668; Gaz. vol. 148; p. 624.  
 Walsh, R. A. B., St. Louis, Mo. Method of and machine for making wire-glass. No. 940,837; Nov. 23; Sp. p. 5313; Gaz. vol. 148; p. 901.  
 Walsh, R. A. B., St. Louis, Mo. Method of and machine for making wire-glass. No. 940,838; Nov. 23; Sp. p. 5316; Gaz. vol. 148; p. 901.  
 Walsh, R. A. B., St. Louis, Mo. Method of and machine for making wire-glass. No. 940,840; Nov. 23; Sp. p. 5320; Gaz. vol. 148; p. 902.  
 Walsh, R. A. B., St. Louis, Mo. Method of and machine for making wire-glass. No. 940,841; Nov. 23; Sp. p. 5321; Gaz. vol. 148; p. 902.  
 Walsh, R. A. B., St. Louis, Mo. Method and apparatus for making wire-glass. No. 940,843; Nov. 23; Sp. p. 5326; Gaz. vol. 148; p. 903.  
 Walsh, R. A. B., St. Louis, Mo. Apparatus for making wire-glass. No. 940,844; Nov. 23; Sp. p. 5327; Gaz. vol. 148; p. 903.  
 Walsh, R. A. B., St. Louis, Mo. Method and apparatus for making wire-glass. No. 940,845; Nov. 23; Sp. p. 5329; Gaz. vol. 148; p. 903.  
 Walsh, R. A. B., St. Louis, Mo. Method and apparatus for making wire-glass. No. 940,846; Nov. 23; Sp. p. 5330; Gaz. vol. 148; p. 904.  
 Walsh, R. A. B., assignor to Mississippi Glass Company, St. Louis, Mo. Method of and machine for making wire-glass. No. 940,834; Nov. 23; Sp. p. 5304; Gaz. vol. 148; p. 900.  
 Walsh, R. A. B., assignor to Mississippi Glass Company, St. Louis, Mo. Method of and machine for making wire-glass. No. 940,836; Nov. 23; Sp. p. 5311; Gaz. vol. 148; p. 901.  
 Walsh, R. A. B., assignor to Mississippi Glass Company, St. Louis, Mo. Method of and machine for making wire-glass. No. 940,839; Nov. 23; Sp. p. 5318; Gaz. vol. 148; p. 901.  
 Walsh, R. A. B., assignor to Mississippi Glass Company, St. Louis, Mo. Method of and machine for making wire-glass. No. 940,842; Nov. 23; Sp. p. 5324; Gaz. vol. 148; p. 902.  
 Walsh, R. A. B., St. Louis, Mo., assignor to Mississippi Wire Glass Company, New York, N. Y. Method of and machine for making wire-glass. No. 940,835; Nov. 23; Sp. p. 5309; Gaz. vol. 148; p. 900.  
 Walsh, T. J. (See Barberie and Walsh.)  
 Walsh, W. E., Morris, Ill. Tent-window. No. 922,067; May 18; Sp. p. 4061; Gaz. vol. 142; p. 710.  
 Walsh, W. E., Morris, Ill. Window-tent. No. 922,068; May 18; Sp. p. 4063; Gaz. vol. 142; p. 710.



*Alphabetical list of patentees—Continued.*

- Walsh, W. E., Morris, III. Tent-window. No. 922,069; May 18; Sp. p. 4066; Gaz. vol. 142; p. 711.  
 Walsh, W. E., Morris, III. Flexible window. No. 928,349; July 20; Sp. p. 3450; Gaz. vol. 144; p. 608.  
 Walsh, W. E., Morris, III. Window-tent. No. 930,002; Aug. 3; Sp. p. 809; Gaz. vol. 145; p. 129.  
 Walstead, G. A., and S. Moe, assignors to M. C. Moyer, Chicago, Ill. Machine for making books. No. 909,130; Jan. 5; Sp. p. 1439; Gaz. vol. 138; p. 230.  
 Walston, J. T., Asheville, N. C. Churn-motor. No. 943,580; Dec. 14; Sp. p. 3302; Gaz. vol. 149; p. 556.  
 Walte, C., Louisville, Ky. Rotary lawn-rake. No. 939,765; Nov. 9; Sp. p. 2921; Gaz. vol. 148; p. 480.  
 Waltemeyer, T. S., et al. (See Wiest, J. H., assignor.)  
 Walter, A. G., assignor to one-half to B. M. Inman, Fremont, Ohio. Binding means for chairs. No. 940,759; Nov. 23; Sp. p. 5140; Gaz. vol. 148; p. 874.  
 Walter, A. G., and B. M. Inman, Fremont, assignors to National Mausoleum Company, Shelby, Ohio. Deodorizing and disinfecting device. No. 915,000; Mar. 9; Sp. p. 2765; Gaz. vol. 140; p. 467.  
 Walter, B., Pittsburg, Pa. Pneumatic hoist. No. 917,688; Apr. 6; Sp. p. 1409; Gaz. vol. 141; p. 248.  
 Walter, B., Pittsburg, Pa. Brine-cooler. No. 937,344; Oct. 19; Sp. p. 3637; Gaz. vol. 147; p. 625.  
 Walter, C. R., assignor to J. B. Foote Foundry Company, Fredericktown, Ohio. Block-forming machine. No. 934,112; Sept. 14; Sp. p. 2332; Gaz. vol. 146; p. 383.  
 Walter, E. G. (See Kohl and Walter.)  
 Walter, F., Königsberg, Germany. Cord-clamp. No. 935,870; Oct. 5; Sp. p. 590; Gaz. vol. 147; p. 84.  
 Walter, F. A., Rochester, N. Y. Forming designs by electrodeposition. No. 924,020; June 8; Sp. p. 2022; Gaz. vol. 143; p. 335.  
 Walter, F. B., Chicago, Ill. Hair-cutting instrument. No. 942,298; Dec. 7; Sp. p. 575; Gaz. vol. 149; p. 91.  
 Walter, H. B., assignor, by mesne assignments, to Already Box Company, Danville, Ill. Box. No. 915,394; Mar. 16; Sp. p. 3588; Gaz. vol. 140; p. 624.  
 Walter, H. B., assignor, by mesne assignments, to Already Box Company, Danville, Ill. Box. No. 915,395; Mar. 16; Sp. p. 3589; Gaz. vol. 140; p. 625.  
 Walter, J. E., Collinwood, Ohio. Dish-washer. No. 927,905; July 13; Sp. p. 2515; Gaz. vol. 144; p. 429.  
 Walter, J. E., Mountain Home, Idaho. Vacuum-leech. No. 931,102; Aug. 17; Sp. p. 3111; Gaz. vol. 145; p. 545.  
 Walter, R. C., Parsons township, Alfalfa county, Okla. Adjustable door-knob. No. 942,605; Dec. 7; Sp. p. 1194; Gaz. vol. 149; p. 195.  
 Walters, G. (See Galvin and Walters.)  
 Walters, G. L., Chicago, Ill. Basket-rack. No. 932,199; Aug. 24; Sp. p. 5471; Gaz. vol. 145; p. 932.  
 Walters, G. O., Longbeach, Cal. Traveling thresher. No. 925,967; June 22; Sp. p. 6026; Gaz. vol. 143; p. 1041.  
 Walters, J. H. (See Deininger, M. F., assignor.)  
 Walters, J. W., Glens Falls, N. Y. Stuffing-box. No. 909,263; Jan. 12; Sp. p. 1695; Gaz. vol. 138; p. 306.  
 Walters, J. W., Glens Falls, N. Y. Exhaust for motor-boats. No. 929,057; July 27; Sp. p. 4878; Gaz. vol. 144; p. 870.  
 Walters, M. L., Findlay, Ohio. Desk attachment. No. 911,097; Feb. 2; Sp. p. 143; Gaz. vol. 139; p. 27.  
 Walters, W. H., Enid, Okla. Device to prevent rails from spreading. No. 921,572; May 11; Sp. p. 3023; Gaz. vol. 142; p. 519.  
 Waltherthum, N. C., Jersey City, N. J. Valve. No. 914,902; Mar. 9; Sp. p. 2614; Gaz. vol. 140; p. 437.  
 Waltham Mfg. Company. (See Howe, F. D., assignor.)  
 Waltham Watch Company. (See Ohlson, O., assignor.)  
 Walther, G. (See Salzer and Walther.)  
 Walther, H., Frankfurt-on-the-Main, Germany. Pulling-over machine. No. 942,155; Dec. 7; Sp. p. 282; Gaz. vol. 149; p. 43.  
 Walther, O., Radebeul, Germany. Fabric multicolor-printing press. No. 927,616; July 13; Sp. p. 1889; Gaz. vol. 144; p. 334.  
 Walther, P. A., Chicago, Ill. Hose-coupling. No. 917,204; Apr. 6; Sp. p. 498; Gaz. vol. 141; p. 87.  
 Walther, R., Jr., and W. H. Scherer, Pittsburg, Pa. Clothes-wringer. No. 938,358; Oct. 26; Sp. p. 5803; Gaz. vol. 147; p. 985.  
 Waltman, S., Wesson, Miss. Cultivator. No. 939,766; Nov. 9; Sp. p. 2922; Gaz. vol. 148; p. 480.  
 Walton, A. (See McDevitt and Walton.)  
 Walton, A. G. (See Hartwell, L. L., assignor.)  
 Walton, C. B., and G. E. Pauck, Trenton, N. J. Manufacturing siphon closet-bowls. No. 927,906; July 13; Sp. p. 2516; Gaz. vol. 144; p. 429.  
 Walton, E., and F. W. Macke, Kokomo, Ind., assignors to H. B. Sherman Manufacturing Company, Battle Creek, Mich. Nail-making machine. No. 919,095; Apr. 20; Sp. p. 4414; Gaz. vol. 141; p. 771.  
 Walton, G. A., New York, N. Y. Steam-generator. No. 910,615; Jan. 26; Sp. p. 4490; Gaz. vol. 138; p. 819.  
 Walton, G. E., Daytona, Fla. Storage and dispensing vessel. No. 927,195; July 6; Sp. p. 1023; Gaz. vol. 144; p. 166.  
 Walton, H. D. (See Morrill, W. H., assignor.)  
 Walton, J. A., Taunton, assignor of one-half to F. L. Adams, Boston, Mass. Rotary spinning-ring and adjustable holder therefor. No. 921,031; May 11; Sp. p. 1903; Gaz. vol. 142; p. 337.  
 Walton, J. L., Pinole, Cal. Pulper. No. 928,009; July 13; Sp. p. 2713; Gaz. vol. 144; p. 462.  
 Walton, J. M., New Orleans, La. Muffler. No. 937,665; Oct. 19; Sp. p. 4292; Gaz. vol. 147; p. 732.  
 Walton, R. N., Los Angeles, Cal. Rail-clamp. No. 934,376; Sept. 14; Sp. p. 2835; Gaz. vol. 146; p. 473.  
 Walton, S. T., Brooklyn, N. Y. Machine for corrugating sheet metal. No. 927,302; July 6; Sp. p. 1222; Gaz. vol. 144; p. 201.  
 Walton, S. T., assignor to Unit Steel Cabinet Company, Brooklyn, N. Y. Card-file. No. 927,303; July 6; Sp. p. 1226; Gaz. vol. 144; p. 201.  
 Waltz, C. T. (See Vokel, G. J., assignor.)  
 Waltz, J. P. (See Snider, J. C., assignor.)  
 Waltz, W. S., Medina, Ohio. Extensible-shade trimmer. No. 916,638; Mar. 30; Sp. p. 6060; Gaz. vol. 140; p. 1086.  
 Waltz, W. S., Medina, Ohio. Headlight for cars. No. 916,639; Mar. 30; Sp. p. 6062; Gaz. vol. 140; p. 1087.  
 Walz, W., Toronto, Ontario, Canada. Electric controller. No. 944,525; Dec. 28; Sp. p. 5377; Gaz. vol. 149; p. 936.  
 Wanamaker, C. B. (See Leedy and Wanamaker.)  
 Wanamaker, C. B., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Clamp. No. 923,610; June 1; Sp. p. 1122; Gaz. vol. 143; p. 171.  
 Wander, A. K. (See Dalmar and Wander.)  
 Wandersleb, E., assignor to Firm of C. Zeiss, Jena, Germany. Photographic filter. No. 926,523; June 29; Sp. p. 7134; Gaz. vol. 143; p. 1260.  
 Wandersleb, E., assignor to Firm of C. Zeiss, Jena, Germany. Telescope. No. 943,105; Dec. 14; Sp. p. 2331; Gaz. vol. 149; p. 396.  
 Wandscheer, D., and J. Sioux Center, Iowa. Corn harvesting and husking machine. No. 915,912; Mar. 23; Sp. p. 4637; Gaz. vol. 140; p. 823.  
 Wandscheer, G., Springfield, S. D. Corn-sheller. No. 929,735; Aug. 3; Sp. p. 206; Gaz. vol. 145; p. 36.  
 Wandscheer, J. (See Wandscheer, D. and J.)  
 Wance, G. M., Red Bluff, Cal. Gun-sight. No. 912,050; Feb. 9; Sp. p. 2117; Gaz. vol. 139; p. 365.  
 Wangemann, A. T. E., assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-horn. No. 913,930; Mar. 2; Sp. p. 563; Gaz. vol. 140; p. 91.  
 Wann, E. E., Los Angeles, Cal. Pulverizing-machine. No. 942,424; Dec. 7; Sp. p. 813; Gaz. vol. 149; p. 133.  
 Wanner, A., Jr., et al. (See Wilkinson, J. A., assignor.)  
 Wanner, A., Jr., Hoboken, N. J. Opera-chair. No. 931,821; Aug. 24; Sp. p. 4656; Gaz. vol. 145; p. 806.  
 Wanner, A., Jr., Hoboken, N. J. Chair-seat. No. 938,730; Nov. 2; Sp. p. 607; Gaz. vol. 148; p. 96.  
 Wanner, E. P., et al. (See Wilkinson, J. A., assignor.)  
 Wanner, E. P., New York, N. Y. Screw-driving machine. No. 922,221; May 18; Sp. p. 4390; Gaz. vol. 142; p. 761.  
 Wanner, E. P., New York, N. Y. Arm-chair. No. 940,995; Nov. 23; Sp. p. 5620; Gaz. vol. 148; p. 952.  
 Wanstall, W., Arlington, N. J. Steam-trap. No. 936,963; Oct. 12; Sp. p. 2828; Gaz. vol. 147; p. 471.  
 Wantling, L., Peoria, Ill. Flour-sifter. No. 927,697; July 13; Sp. p. 2077; Gaz. vol. 144; p. 360.  
 Wanzel, F. W., Rossmore, Pa. Sad-iron heater and receptacle. No. 930,003; Aug. 3; Sp. p. 811; Gaz. vol. 145; p. 130.  
 Wanzel, F. M. (See Eberline and Wanzel.)  
 Waples, R., Wayne, Pa. Railway cross-tie. No. 924,705; June 15; Sp. p. 3464; Gaz. vol. 143; p. 596.  
 Waples, R., Wayne, Pa. Railway construction. No. 925,404; June 15; Sp. p. 4836; Gaz. vol. 143; p. 827.  
 Wappler Electric Controller Company. (See Wappler, R. H., assignor.)  
 Wappler, R. H., assignor to American Cystoscope Makers Inc., New York, N. Y. Endoscope. No. 922,985; May 25; Sp. p. 5951; Gaz. vol. 142; p. 1038.  
 Wappler, R. H., assignor to Wappler Electric Controller Company, New York, N. Y. Interrupter. No. 929,353; July 27; Sp. p. 5538; Gaz. vol. 144; p. 970.  
 Warburton, C., Pawtucket, R. I. Percolator and extractor. No. 912,634; Feb. 16; Sp. p. 3332; Gaz. vol. 139; p. 597.  
 Warcup, J., Lemesurier, Quebec, Canada. Snow-road machine. No. 913,788; Mar. 2; Sp. p. 238; Gaz. vol. 140; p. 40.  
 Ward, A. (See Roberts and Ward.)  
 Ward, A. D., Chicago, Ill. Ventilator. No. 925,144; June 15; Sp. p. 4363; Gaz. vol. 143; p. 744.  
 Ward, A. R., Intervale, N. H., assignor of one-half to B. L. Burbank, Woodfords, Me. Checking and unchecking device. No. 911,857; Feb. 9; Sp. p. 1624; Gaz. vol. 139; p. 301.  
 Ward, C. A., Forestville, Conn. Railway lighting and signaling device. No. 933,802; Sept. 14; Sp. p. 1705; Gaz. vol. 146; p. 283.

*Alphabetical list of patentees—Continued.*

- Ward, C. D., New York, N. Y., assignor to Duplex Adding Machine Company, St. Louis, Mo. Calculating-machine. No. 924,298; June 8; Sp. p. 2630; Gaz. vol. 143; p. 428.
- Ward, C. R. (See Schlappich, Ward, and Sheridan.)
- Ward, D. (See Herbert and Ward.)
- Ward, D., Paterson, N. J. Stop-motion for looms. No. 917,817; Apr. 13; Sp. p. 1720; Gaz. vol. 141; p. 317.
- Ward, E. E., Harrison, Mo. Egg-crate. No. 932,922; Aug. 31; Sp. p. 6939; Gaz. vol. 145; p. 1192.
- Ward, E. N., and C. D. Guffey, assignors of one-third to C. M. Jones, Baxter Springs, Kans. Glass-tube cutter. No. 934,487; Sept. 21; Sp. p. 3064; Gaz. vol. 146; p. 534.
- Ward, E. S., and J. A. Hamilton, Portland, Oreg. Gage for crosscut-saws. No. 943,760; Dec. 21; Sp. p. 3725; Gaz. vol. 149; p. 648.
- Ward Equipment Company, (See Ward, J. E., assignor.)
- Ward, F., Chicago, Ill. Illuminated sign. No. 940,847; Nov. 23; Sp. p. 5331; Gaz. vol. 148; p. 904.
- Ward, F. H., et al. (See Smith, G. A., assignor.)
- Ward, F. H., New York, N. Y. Line-spacing mechanism for type-writers. No. 924,021; June 8; Sp. p. 2024; Gaz. vol. 143; p. 335.
- Ward, G. E., assignor to Geo. E. Keith Company, Brockton, Mass. Sole stamping and slitting machine. No. 921,573; May 11; Sp. p. 3024; Gaz. vol. 142; p. 519.
- Ward, G. H., et al. (See Watts, H. I., assignor.)
- Ward, H. C., Newark, N. J. Separable stud. No. 931,822; Aug. 24; Sp. p. 4657; Gaz. vol. 145; p. 807.
- Ward, H. C., Vashon, Wash. Earth-scraping apparatus. No. 932,075; Aug. 24; Sp. p. 5221; Gaz. vol. 145; p. 890.
- Ward, H. T., Ingleside, Tex. Beehive. No. 909,973; Jan. 19; Sp. p. 3112; Gaz. vol. 138; p. 576.
- Ward, H. W., Pittsburg, Pa. Water-closet. No. 936,388; Oct. 12; Sp. p. 1645; Gaz. vol. 147; p. 279.
- Ward, J., Grange-over-Sands, England. Apparatus for making tar paving. No. 933,803; Sept. 14; Sp. p. 1707; Gaz. vol. 146; p. 283.
- Ward, J., Oak Park, Ill., assignor to Ingersoll-Rand Company, New York, N. Y. Swivel-block mounting. No. 914,683; Mar. 9; Sp. p. 2170; Gaz. vol. 140; p. 364.
- Ward, J. A. (See Ross and Ward.)
- Ward, J. A., et al. (See Holly, C., assignor.)
- Ward, J. A., Jr., Fort Smith, Ark. Adjustable collar-fastener. No. 910,751; Jan. 26; Sp. p. 4764; Gaz. vol. 138; p. 862.
- Ward, J. C., Epworth, Iowa. Portable and detachable disk-grinder. No. 939,115; Nov. 2; Sp. p. 1411; Gaz. vol. 148; p. 220.
- Ward, J. E., New York, N. Y. Ventilator for railway-cars. No. 911,689; Feb. 9; Sp. p. 1330; Gaz. vol. 139; p. 247.
- Ward, J. E., assignor to Ward Equipment Company, New York, N. Y. Valve. No. 924,861; June 15; Sp. p. 3803; Gaz. vol. 143; p. 649.
- Ward, J. E., assignor to Ward Equipment Company, New York, N. Y. Ventilator for railway-cars. No. 936,686; Oct. 12; Sp. p. 2292; Gaz. vol. 147; p. 380.
- Ward, J. E., assignor to Ward Equipment Company, New York, N. Y. Hose-coupling and gasket therefor. No. 938,731; Nov. 2; Sp. p. 608; Gaz. vol. 148; p. 96.
- Ward, J. E., assignor to Ward Equipment Company, New York, N. Y. Hose-coupling. No. 939,195; Nov. 2; Sp. p. 1595; Gaz. vol. 148; p. 258.
- Ward, J. E., assignor to Ward Equipment Company, New York, N. Y. Ventilator for railway-cars. No. 941,290; Nov. 23; Sp. p. 6280; Gaz. vol. 148; p. 1051.
- Ward, J. F., and C. L. Davidson, assignors of one-tenth to O. E. Halslup and one-twentieth to E. P. Vance, Indianapolis, Ind. Automatic pipe-coupling head. No. 918,230; Apr. 13; Sp. p. 2578; Gaz. vol. 141; p. 459.
- Ward, J. W., Larue, Ohio. Adjustable holdback. No. 908,914; Jan. 5; Sp. p. 995; Gaz. vol. 138; p. 159.
- Ward, L. E., Lake City, Ill. Draft-equalizer. No. 937,900; Oct. 26; Sp. p. 4792; Gaz. vol. 147; p. 829.
- Ward, L. W., Buckhannon, W. Va. Invalid-bed. No. 912,214; Feb. 9; Sp. p. 2408; Gaz. vol. 139; p. 415.
- Ward Leonard Electric Co. (See Schwagermann, W., assignor.)
- Ward, M., Houtzdale, Pa. Ventilating system for mines. No. 942,950; Dec. 14; Sp. p. 1970; Gaz. vol. 149; p. 342.
- Ward, P. C. (See Robinson, C. S., assignor.)
- Ward, S. E., Allen, Nebr. Pan-lifter. No. 923,389; June 1; Sp. p. 644; Gaz. vol. 143; p. 93.
- Ward, T. H., Springfield, and C. R. Yerrick, Danville, assignors to Chapman Valve Manufacturing Company, Indian Orchard, Mass. Dis-engaging device for motor-driven valves. No. 928,720; July 20; Sp. p. 4188; Gaz. vol. 144; p. 730.
- Ward, T. H., Springfield, Mass., and C. R. Yerrick, Avoca, Pa., assignors to Chapman Valve Manufacturing Company, Indian Orchard, Mass. Hand-wheel lock. No. 928,893; July 20; Sp. p. 4533; Gaz. vol. 144; p. 789.
- Ward, W., Mayo, Md. Anchor. No. 917,818; Apr. 13; Sp. p. 1721; Gaz. vol. 141; p. 317.
- Ward, W. C. (See Bracken and Ward.)
- Ward, W. S., assignor to H. D. Smith and Company, Plantsville, Conn. Hatchet. No. 939,458; Nov. 9; Sp. p. 2249; Gaz. vol. 148; p. 373.
- Ward, W. Z., assignor to Pneumelectric Machine Company, Syracuse, N. Y. Electropneumatic tool. No. 923,913; June 8; Sp. p. 1811; Gaz. vol. 143; p. 302.
- Wardell, D. (See Beardsley and Wardell.)
- Wardell, F. (See Stecker, A. J., assignor.)
- Warden, T. G., et al. (See Gurney, A. J., assignor.)
- Warden, W. F., Akron, Ohio. Ventilator-clip. No. 925,251; June 15; Sp. p. 4563; Gaz. vol. 143; p. 780.
- Warden, W. F., Akron, Ohio. Ventilator. No. 925,252; June 15; Sp. p. 4564; Gaz. vol. 143; p. 780.
- Wardle, A., Toronto, Ontario, Canada. Rail-chair. No. 943,206; Dec. 14; Sp. p. 2524; Gaz. vol. 149; p. 428.
- Wardle, R. M. (See Hisey and Wardle.)
- Wardwell, E. F., Woodstock, Vt. Pipe-expanding tool. No. 936,838; Oct. 12; Sp. p. 2584; Gaz. vol. 147; p. 431.
- Wardwell, E. F., Woodstock, Vt. Reinforced lead pipe. No. 936,839; Oct. 12; Sp. p. 2586; Gaz. vol. 147; p. 431.
- Wardwell, S. W. (See Parks and Wardwell.)
- Wardwell, S. W., Providence, R. I. Filling carrier or bobbin. No. 919,502; Apr. 27; Sp. p. 5489; Gaz. vol. 141; p. 943.
- Wardwell, S. W., Providence, R. I. Creel. No. 932,522; Aug. 31; Sp. p. 6114; Gaz. vol. 145; p. 1061.
- Wardwell, S. W., Providence, R. I. Winding-machine. No. 940,489; Nov. 16; Sp. p. 4539; Gaz. vol. 148; p. 750.
- Wardwell, S. W., Providence, R. I., assignor to Supreme Knitting Bobbin Company, Portland, Me. Winding-machine. No. 937,666; Oct. 19; Sp. p. 4294; Gaz. vol. 147; p. 732.
- Wardwell, S. W., Providence, R. I., assignor to Supreme Knitting Bobbin Company, Portland, Me. Bobbin-holder. No. 941,595; Nov. 30; Sp. p. 6922; Gaz. vol. 148; p. 1172.
- Wardzinski, A., Bromberg, Germany. Furnace. No. 909,488; Jan. 12; Sp. p. 2137; Gaz. vol. 138; p. 378.
- Ware, E. J. (See Bernin and Ware.)
- Ware, H. W., assignor of forty-nine one-hundredths to J. A. Ballard, Henshaw, Ky. Disk-roller sharpener. No. 929,904; Aug. 3; Sp. p. 608; Gaz. vol. 145; p. 96.
- Ware, J. L., Terry, Miss. Water-power blower. No. 913,592; Feb. 23; Sp. p. 5316; Gaz. vol. 139; p. 941.
- Ware, J. L., assignor of one-half to A. E. O'Brien, Terry, Miss. Catching and delivering apparatus for mail-pouches. No. 942,762; Dec. 7; Sp. p. 1505; Gaz. vol. 149; p. 247.
- Ware, T. D., Milesburg, Pa. Machine for distributing dry insecticides or like materials. No. 912,635; Feb. 16; Sp. p. 3334; Gaz. vol. 139; p. 598.
- Warehock, J., assignor of one-half to J. Harcourt, Seney, Mich. Rail-straightening device. No. 924,514; June 8; Sp. p. 3045; Gaz. vol. 143; p. 498.
- Warfel, H. E., et al. (See Graham, E., assignor.)
- Warfield, A., Toronto, Ontario, Canada. Cement railway-tie and rail-fastening. No. 926,788; July 6; Sp. p. 159; Gaz. vol. 144; p. 27.
- Warfield, A. B., U. S. Army. Sign-board. No. 930,509; Aug. 10; Sp. p. 1788; Gaz. vol. 145; p. 321.
- Warfield, A. R., and J. B. Nicholson, Washington, D. C. Lamp-operating mechanism. No. 935,437; Sept. 28; Sp. p. 4945; Gaz. vol. 146; p. 873.
- Warg, R., Milwaukee, Wis. Steam-radiator. No. 916,640; Mar. 30; Sp. p. 6063; Gaz. vol. 140; p. 1087.
- Warg, R., Milwaukee, Wis. Steam-radiator. No. 916,641; Mar. 30; Sp. p. 6064; Gaz. vol. 140; p. 1087.
- Waring, E. C., Huntsville, Mo. Washing-machine. No. 943,581; Dec. 14; Sp. p. 3304; Gaz. vol. 149; p. 557.
- Waring, J. B., Jersey City, N. J., assignor of one-fourth to F. S. Sanchez, Brooklyn, and one-fourth to F. Rodriguez, Port Chester, N. Y. Speed-indicator. No. 944,709; Dec. 28; Sp. p. 5770; Gaz. vol. 149; p. 998.
- Warmack, J. H., et al. (See Pitts, E. L., assignor.)
- Warmcastle, C. A., et al. (See Kyle, J. D., assignor.)
- Warne, I. F., Syracuse, N. Y., assignor to Continental Can Company, Baltimore, Md. Mechanism for feeding caps or disks. No. 931,003; Aug. 10; Sp. p. 2882; Gaz. vol. 145; p. 484.
- Warmsley, A. H., Ilford, England. Carburetor. No. 941,393; Nov. 30; Sp. p. 6511; Gaz. vol. 148; p. 1106.
- Warrant-Créon, J. W., Hoignée-Cheratte, near Liege, Belgium. Automatic rifle. No. 908,631; Jan. 5; Sp. p. 418; Gaz. vol. 138; p. 67.
- Warne, A. T., Leytonstone, assignor to Spicer Brothers, London, England. Loose-leaf book, such as ledger, order-book, and the like. No. 915,812; Mar. 23; Sp. p. 4451; Gaz. vol. 140; p. 791.
- Warner, A. A., assignor to Landers, Frary and Clark, New Britain, Conn. Meat-cutter. No. 908,714; Jan. 5; Sp. p. 605; Gaz. vol. 138; p. 94.



*Alphabetical list of patentees—Continued.*

- Warner, A. A., assignor to Landers, Frary, and Clark, New Britain, Conn. Vapor-lamp. No. 913,789; Mar. 2; Sp. p. 240; Gaz. vol. 140; p. 40.
- Warner, A. A., assignor to Landers, Frary and Clark, New Britain, Conn. Coffee or spice mill. No. 933,008; Aug. 31; Sp. p. 7100; Gaz. vol. 145; p. 1221.
- Warner, A. C., assignor to Peoria Lawn Mower Grinder Co., Peoria, Ill. Grinding-machine. No. 937,035; Oct. 12; Sp. p. 2982; Gaz. vol. 147; p. 495.
- Warner Arc Lamp Company. (See Warner, W. F., assignor.)
- Warner, C. A., New York, N. Y. Reclining-chair. No. 936,589; Oct. 12; Sp. p. 2085; Gaz. vol. 147; p. 346.
- Warner Clutch Company. (See Warner, E. P., assignor.)
- Warner, D., Bronson, Mich., assignor of one-sixth to F. A. Eckler, Mendon, N. Y., and one-third to J. N. Neal, Coldwater, Mich. Spring-wheel. No. 920,226; May 4; Sp. p. 273; Gaz. vol. 142; p. 43.
- Warner, E. P., assignor to Warner Clutch Company, Chicago, Ill. Power-transmission device. No. 917,205; Apr. 6; Sp. p. 500; Gaz. vol. 141; p. 87.
- Warner, E. P., and C. Wiler, assignors to Western Electric Company, Chicago, Ill. Gas-chamber for arc-lamps. No. 929,354 July 27; Sp. p. 5541; Gaz. vol. 144; p. 971.
- Warner Elevator Manufacturing Co. (See Shepard, O. F., Jr., assignor.)
- Warner, F. H., Ashtabula, Ohio. Spring-equalizer. No. 924,862; June 15; Sp. p. 3805; Gaz. vol. 143; p. 650.
- Warner, G., Hometown, Ind. Sulky-plow. No. 910,752; Jan. 26; Sp. p. 4765; Gaz. vol. 138; p. 862.
- Warner, G. W., Beatrice, Nebr. Device for adjustably holding flexible spouts. No. 908,715; Jan. 5; Sp. p. 607; Gaz. vol. 138; p. 94.
- Warner, J. F., Muncie, Ind. Controlling mechanism for variable-speed gearing. No. 927,698; July 13; Sp. p. 2078; Gaz. vol. 144; p. 361.
- Warner, J. L., Girard, Kans. Violin-piano. No. 924,706; June 15; Sp. p. 3466; Gaz. vol. 143; p. 596.
- Warner, M. A., Edenton, N. C. Food-tray for steam-cookers. No. 931,533; Aug. 17; Sp. p. 4011; Gaz. vol. 145; p. 691.
- Warner, W. F., assignor to Warner Arc Lamp Company, Muncie, Ind. Arc-lamp. No. 914,684; Mar. 9; Sp. p. 2172; Gaz. vol. 140; p. 365.
- Warner, W. R., assignor to Vergennes Drug Company, Vergennes, Vt. Closure for bottles. No. 936,062; Oct. 5; Sp. p. 980; Gaz. vol. 147; p. 147.
- Warnock, O., Brooklyn, N. Y. Faucet. No. 917,689; Apr. 6; Sp. p. 1410; Gaz. vol. 141; p. 248.
- Warnock, W. S., Chicago, Ill. Plate-holder. No. 934,249; Sept. 14; Sp. p. 2601; Gaz. vol. 146; p. 431.
- Warnock, W. S., Chicago, Ill. Printing-plate foundation. No. 935,073; Sept. 28; Sp. p. 4227; Gaz. vol. 146; p. 756.
- Warp Twisting-In Machine Company. (See Landfear, W. R., assignor.)
- Warren Axe & Tool Company. (See Rounds, H. M., assignor.)
- Warren, B. S., and S. Herbert, assignors to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 933,143; Sept. 7; Sp. p. 215; Gaz. vol. 146; p. 37.
- Warren Brothers Company. (See Ash, H. W., assignor.)
- Warren Brothers Company. (See Warren, W. B., assignor.)
- Warren, C. A., Columbus, Ohio. Dressing-table. No. 915,913; Mar. 23; Sp. p. 4641; Gaz. vol. 140; p. 823.
- Warren, E. A., Thorndale, Tex. Track-leveling device. No. 932,076; Aug. 24; Sp. p. 5224; Gaz. vol. 145; p. 891.
- Warren, E. F., Detroit, assignor of one-half to M. E. Garrett, Wayne county, Mich. Carbureter. No. 926,039; June 22; Sp. p. 6171; Gaz. vol. 143; p. 1065.
- Warren, F. A., Jr., assignor to Marine Hardware Company, Peabody, Mass. Steering device for power-boats. No. 912,215; Feb. 9; Sp. p. 2410; Gaz. vol. 139; p. 416.
- Warren, F. H., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-indenting machine. No. 930,510; Aug. 10; Sp. p. 1791; Gaz. vol. 145; p. 321.
- Warren, F. H., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Edge-setting machine. No. 943,207; Dec. 14; Sp. p. 2525; Gaz. vol. 149; p. 428.
- Warren Featherbone Company. (See Webster, W., assignor.)
- Warren Featherbone Company of Michigan. (See Doty, M. S., assignor.)
- Warren, G. E., Hartford, Mich. Hay-press. No. 909,974; Jan. 19; Sp. p. 3113; Gaz. vol. 138; p. 576.
- Warren, G. E., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making eyelets. No. 942,988; Dec. 14; Sp. p. 2054; Gaz. vol. 149; p. 356.
- Warren, G. E., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Die for use in the manufacture of eyelets. No. 942,989; Dec. 14; Sp. p. 2057; Gaz. vol. 149; p. 356.
- Warren, H. E., Ashland, Mass. Electric apparatus for driving clock or similar mechanisms. No. 927,907; July 13; Sp. p. 2518; Gaz. vol. 144; p. 429.
- Warren, H. E., assignor to Lombard Governor Company, Ashland, Mass. Relief-valve for the supply-pipes for water-motors. No. 920,099; Apr. 27; Sp. p. 6722; Gaz. vol. 141; p. 1141.
- Warren, H. E., assignor to Lombard Governor Company, Ashland, Mass. Centrifugal apparatus. No. 931,707; Aug. 17; Sp. p. 4402; Gaz. vol. 145; p. 747.
- Warren, H. E., assignor to Lombard Governor Company, Ashland, Mass. Governor for motors. No. 936,261; Oct. 5; Sp. p. 1356; Gaz. vol. 147; p. 209.
- Warren, H. W., Cuyahoga Falls, Ohio. Surgeon's glove. No. 919,406; Apr. 27; Sp. p. 5247; Gaz. vol. 141; p. 909.
- Warren, J. N., *et al.* (See Goodrich, O. A., assignor.)
- Warren, J. R., and G. W. Packard, Jr., Deadwood, S. D. Advertising device. No. 919,096; Apr. 20; Sp. p. 4417; Gaz. vol. 141; p. 772.
- Warren, J. T., Hempill, Tex. Bolster for log-wagons. No. 943,495; Dec. 14; Sp. p. 3135; Gaz. vol. 149; p. 528.
- Warren, M., Rochester, N. Y. Valve. No. 916,642; Mar. 30; Sp. p. 6065; Gaz. vol. 140; p. 1087.
- Warren, M., Rochester, N. Y. Nozzle. No. 930,444; Aug. 10; Sp. p. 1653; Gaz. vol. 145; p. 299.
- Warren, P. R., Lowell, Mass. Folding box. No. 944,063; Dec. 21; Sp. p. 4363; Gaz. vol. 149; p. 752.
- Warren, R. Q., East Orange, N. J. Wrench. No. 916,510; Mar. 30; Sp. p. 5828; Gaz. vol. 140; p. 1045.
- Warren Steam Pump Company. (See Gage, B. O., assignor.)
- Warren, T., Balboa, Panama. Combined the lifter and holder. No. 938,528; Nov. 2; Sp. p. 199; Gaz. vol. 148; p. 28.
- Warren, T. E., Ticonderoga, N. Y. Circulating system. No. 916,810; Mar. 30; Sp. p. 6363; Gaz. vol. 140; p. 1137.
- Warren, W. B., Newton, assignor to Warren Brothers Company, Boston, Mass. Pavement. No. 916,070; Mar. 23; Sp. p. 4939; Gaz. vol. 140; p. 875.
- Warren, W. H. (See Terrey and Warren.)
- Warren, W. J., assignor of one-half to C. L. Wilbur, Yuba City, Cal. Reinforced concrete construction. No. 918,231; Apr. 13; Sp. p. 2580; Gaz. vol. 141; p. 460.
- Warren, W. P., Sheridan, Ill. Raising and lowering attachment for buggy-tops. No. 929,806; Aug. 3; Sp. p. 377; Gaz. vol. 145; p. 63.
- Warren, W. R., New York, N. Y. Apparatus for moving material from granulators. No. 916,233; Mar. 23; Sp. p. 5246; Gaz. vol. 140; p. 926.
- Warren Webster & Co. (See Midgley, J. G., assignor.)
- Warren Webster & Company. (See Comfort, E. W., assignor.)
- Warren Webster & Company. (See Pitts, J. L., assignor.)
- Warren Webster & Company. (See Osbourn, M. F., assignor.)
- Warren Webster & Company. (See Serrell and Osbourn, assignors.)
- Warrington, G., Washington, D. C., and L. D. Lovekin, Philadelphia, Pa.; said G. Warrington assignor to J. N. Warrington, Honolulu, Hawaii. Bridge-wall for furnaces. No. 944,753; Dec. 28; Sp. p. 5883; Gaz. vol. 149; p. 1014.
- Warrington, J. N. (See Warrington and Lovekin, assignors.)
- Warshavsky, A. W. H., New York, N. Y. Flying-machine. No. 944,301; Dec. 28; Sp. p. 4862; Gaz. vol. 149; p. 857.
- Warson, W. A., Seattle, Wash. Plastering-machine. No. 916,811; Mar. 30; Sp. p. 6365; Gaz. vol. 140; p. 1138.
- Warstler, W. F., Goshen, Ind. Carbureter. No. 915,132; Mar. 16; Sp. p. 3076; Gaz. vol. 140; p. 539.
- Warter, F. A., Perth Amboy, N. J. Valve. No. 930,635; Aug. 10; Sp. p. 2090; Gaz. vol. 145; p. 364.
- Warth, N. G., Gallipolis, Ohio. Telephone repeater apparatus. No. 937,901; Oct. 26; Sp. p. 4793; Gaz. vol. 147; p. 829.
- Wartmann, O., Tottenham, London, England. Apparatus for manufacturing cigarettes. No. 927,196; July 6; Sp. p. 1025; Gaz. vol. 144; p. 166.
- Warwood Tool Company. (See Tyler, S., assignor.)
- Wascinski, A. v., Passaic, N. J. Double-keyed violin. No. 926,370; June 29; Sp. p. 6870; Gaz. vol. 143; p. 1208.
- Wasden, W. W., Rexburg, Idaho. Sliding gate. No. 922,548; May 25; Sp. p. 5045; Gaz. vol. 142; p. 896.
- Washam, F., Hume, Ill. Railway-crossing. No. 930,004; Aug. 3; Sp. p. 812; Gaz. vol. 145; p. 130.
- Washburn, A. E., Bastrop, La. Attachment for compasses. No. 931,359; Aug. 17; Sp. p. 3678; Gaz. vol. 145; p. 635.
- Washburn, C. W., Saratoga Springs, N. Y. Pruning-shears. No. 936,390; Oct. 12; Sp. p. 1649; Gaz. vol. 147; p. 280.
- Washburn, E. C., Minneapolis, Minn. Lateral-motion car-truck. No. 913,333; Feb. 23; Sp. p. 4769; Gaz. vol. 139; p. 854.
- Washburn, E. C., Minneapolis, Minn., assignor, by mesne assignments, to Commonwealth Steel Company, St. Louis, Mo. Bumper-beam draft-rigging. No. 930,247; Aug. 3; Sp. p. 1282; Gaz. vol. 145; p. 211.

*Alphabetical list of patentees—Continued.*

- Washburn, E. C., Minneapolis, Minn., assignor, by mesne assignments, to Commonwealth Steel Company, St. Louis, Mo. Bumper-beam draft-rigging. No. 930,248; Aug. 3; Sp. p. 1283; Gaz. vol. 145; p. 211.
- Washburn, F., Michigan City, Ind. Window shade and curtain bracket. No. 909,975; Jan. 19; Sp. p. 3115; Gaz. vol. 138; p. 576.
- Washburn, H. D., Salem, Mass. Ink-supplying apparatus for printing-presses. No. 929,736; Aug. 3; Sp. p. 211; Gaz. vol. 145; p. 37.
- Washburn, V. C., Clifton Springs, N. Y. Air-valve. No. 919,658; Apr. 27; Sp. p. 5806; Gaz. vol. 141; p. 996.
- Washburne, J. V., Syracuse, N. Y. Shade-roller attachment. No. 912,636; Feb. 16; Sp. p. 3335; Gaz. vol. 139; p. 598.
- Washburne, L. A., St. Johns, Mich. Pump-bracket. No. 939,360; Nov. 9; Sp. p. 2018; Gaz. vol. 148; p. 341.
- Washefski, J. (See Williams, J. K., assignor.)
- Washington, D. E., assignor of one-fourteenth to J. F. Tippet, one-fourteenth to G. C. Voltz, one-fourteenth to A. E. Bottoff, one-fourteenth to M. Conway, one-fourteenth to H. Hunt, one-fourteenth to C. W. Patton, one twenty-eighth to P. D. Finlayson, and one thirty-fifth to R. C. Harwood, Chicago, Ill. Transmission-gearing. No. 918,936; Apr. 20; Sp. p. 4113; Gaz. vol. 141; p. 722.
- Washington Iron Works. (See Davis, S. J., assignor.)
- Wason Manufacturing Company. (See Pearson, H., assignor.)
- Wason Manufacturing Company. (See Rice, C. F., assignor.)
- Wassell, C. R. (See Cecil and Wassell.)
- Wassman, C., *et al.* (See Morris, W. H., assignor.)
- Wassmann, A. (See Hertzberg, Low, and Wassmann.)
- Wasson, S. B., Peoria, Ill. Rubbing-post. No. 936,687; Oct. 12; Sp. p. 2294; Gaz. vol. 147; p. 380.
- Watanabe, K., Seattle, Wash. Brush. No. 916,071; Mar. 23; Sp. p. 4940; Gaz. vol. 140; p. 875.
- Watchpocket, J. (See Lilley, G. W., assignor.)
- Waterbury Buckle Company. (See De Lancey, D., assignor.)
- Waterbury Buckle Company. (See Moore, R. A., assignor.)
- Waterbury Clock Co. (See Horn, E. H., assignor.)
- Waterbury Clock Co. (See Lux, P., assignor.)
- Waterbury Farrel Foundry and Machine Company. (See Candee, Z. P., assignor.)
- Waterbury, J. L., Minneapolis, Minn. Hot-air register. No. 915,133; Mar. 16; Sp. p. 3077; Gaz. vol. 140; p. 539.
- Waterbury, J. L., Minneapolis, Minn. Heating apparatus. No. 915,134; Mar. 16; Sp. p. 3077; Gaz. vol. 140; p. 540.
- Waterbury Mfg. Co. (See Perkins, W. H., assignor.)
- Waterbury Tool Co. (See Janney, J., assignor.)
- Waterbury Tool Company. (See Williams, H. D., assignor.)
- Waterhouse, A. (See Smith and Waterhouse.)
- Waterhouse, A. G., Good Ground, N. Y. Distilling alcohols and other volatile liquids. No. 939,361; Nov. 9; Sp. p. 2019; Gaz. vol. 148; p. 341.
- Waterhouse, R. and V., Falls City, Oreg. Hook. No. 926,156; June 29; Sp. p. 6430; Gaz. vol. 143; p. 1140.
- Waterhouse, V. (See Waterhouse, R. and V.)
- Waterloo Gasoline Engine Company. (See Witry, L. W., assignor.)
- Waterman, B. E., East Bridgewater, Mass., assignor to American Shoe Finding Company: Tack-feeding device. No. 924,707; June 15; Sp. p. 3470; Gaz. vol. 143; p. 597.
- Waterman, C. F., Portland, Me. Gage-cock for steam-boilers. No. 931,004; Aug. 10; Sp. p. 2885; Gaz. vol. 145; p. 485.
- Waterman, E. M., and N. Brown, Centralia, Wash. Hair-tonic. No. 921,927; May 18; Sp. p. 3778; Gaz. vol. 142; p. 665.
- Waterman, F. E., Parkersburg, W. Va. Fountain-pen. No. 909,262; Jan. 12; Sp. p. 1693; Gaz. vol. 138; p. 305.
- Waterman, F. M. (See Corthell, W. M., assignor.)
- Waterman, F. W., Elyria, Ohio. Automatic device for operating valves and other mechanisms. No. 937,122; Oct. 19; Sp. p. 3155; Gaz. vol. 147; p. 554.
- Waterman, H. A., Liberal, Mo. Hand-hook. No. 920,700; May 4; Sp. p. 1252; Gaz. vol. 142; p. 199.
- Waterman, I. G., Santa Barbara, Cal. Electrically-operated valve. No. 921,760; May 18; Sp. p. 3431; Gaz. vol. 142; p. 611.
- Waterman, I. G. Santa Barbara Cal. Electrical switch. No. 921,761; May 18; Sp. p. 3434; Gaz. vol. 142; p. 611.
- Waterman, L. E., assignor to Emerson Manufacturing Company, Rockford, Ill. Corn-planter. No. 928,293; July 20; Sp. p. 3342; Gaz. vol. 144; p. 589.
- Waterman, L. E., assignor to Emerson Manufacturing Company, Rockford, Ill. Wheeled plow. No. 930,249; Aug. 3; Sp. p. 1284; Gaz. vol. 145; p. 211.
- Waterman, L. E., assignor to Emerson Manufacturing Company, Rockford, Ill. Alfalfa-harrow. No. 930,250; Aug. 3; Sp. p. 1285; Gaz. vol. 145; p. 212.
- Waterman, L. E., assignor to Emerson Manufacturing Company, Rockford, Ill. Revolving harrow. No. 930,251; Aug. 3; Sp. p. 1287; Gaz. vol. 145; p. 212.
- Waterman, L. E., assignor to Emerson Manufacturing Company, Rockford, Ill. Revolving harrow. No. 930,252; Aug. 3; Sp. p. 1287; Gaz. vol. 145; p. 212.
- Waterproof Welt and Filter Company. (See Reynolds, J. R., assignor.)
- Waters, B. L., Aurora, Ill. Shelving. No. 910,616; Jan. 26; Sp. p. 4495; Gaz. vol. 138; p. 819.
- Waters, B. L., Aurora, Ill. Shelving. No. 914,685; Mar. 9; Sp. p. 2177; Gaz. vol. 140; p. 365.
- Waters, C. E., Los Angeles, Cal. Lawn-trimmer. No. 925,671; June 22; Sp. p. 5386; Gaz. vol. 143; p. 943.
- Waters Engine Company. (See Waters, F. J., assignor.)
- Waters, F. E. (See Doughty, H. W., assignor.)
- Waters, F. J., Providence, R. I., assignor to Waters Engine Company, Saco, Me. Rotary steam-engine. No. 926,914; July 6; Sp. p. 439; Gaz. vol. 144; p. 71.
- Waters, F. J., Providence, R. I., assignor to Waters Engine Company, Saco, Me. Feed-motion device. No. 926,915; July 6; Sp. p. 442; Gaz. vol. 144; p. 71.
- Waters, G. H., Greer, S. C. Combination-tool. No. 933,278; Sept. 7; Sp. p. 569; Gaz. vol. 146; p. 87.
- Waters, H. B., *et al.* (See Sloane, G. H., assignor.)
- Waters, M., New Albany, Ind. Claw-bar. No. 935,714; Oct. 5; Sp. p. 194; Gaz. vol. 147; p. 31.
- Waters, W. P. (See Dawson, W. H., assignor.)
- Watervliet Novelty Co. (See Olmstead, A. P., assignor.)
- Watkins, A., Hereford, England. Apparatus for determining relative times of development of photographic plates or films for different temperatures. No. 933,605; Sept. 7; Sp. p. 1323; Gaz. vol. 146; p. 195.
- Watkins, B. F., Rye, assignor to Consolidated Cross Tie Company, New York, N. Y. Apparatus for impregnation of wood. No. 913,593; Feb. 23; Sp. p. 5317; Gaz. vol. 139; p. 941.
- Watkins, D. M., Providence, R. I. Metal-working machine. No. 918,105; Apr. 13; Sp. p. 2331; Gaz. vol. 141; p. 417.
- Watkins, D. M., Providence, R. I. Safety device. No. 918,106; Apr. 13; Sp. p. 2333; Gaz. vol. 141; p. 417.
- Watkins, E., Cleveland, and J. H. Miller, Elyria, Ohio. Hose-coupling. No. 927,388; July 6; Sp. p. 1369; Gaz. vol. 144; p. 228.
- Watkins, E. G., assignor to Heywood Brothers and Wakefield Company, Gardner, Mass. Adjustable furniture. No. 914,538; Mar. 9; Sp. p. 1867; Gaz. vol. 140; p. 317.
- Watkins, G., Washington, assignor to Roberts, Johnson & Rand Shoe Company, St. Louis, Mo. Boot. No. 941,116; Nov. 23; Sp. p. 5892; Gaz. vol. 148; p. 992.
- Watkins, H., assignor of one-half to D. D. Smyth, Utica, N. Y. Saw-setting machine. No. 937,902; Oct. 26; Sp. p. 4797; Gaz. vol. 147; p. 829.
- Watkins, H., assignor of one-half to D. D. Smyth, Utica, N. Y. Saw-setting machine. No. 937,903; Oct. 26; Sp. p. 4800; Gaz. vol. 147; p. 830.
- Watkins, H., assignor of one-half to D. D. Smyth, Utica, N. Y. Saw-setting machine. No. 937,904; Oct. 26; Sp. p. 4802; Gaz. vol. 147; p. 830.
- Watkins, H., and J. C. Kempf, Utica, N. Y. Music-rack. No. 909,489; Jan. 12; Sp. p. 2138; Gaz. vol. 138; p. 379.
- Watkins, J. B., St. Louis, Mo., assignor of one-half to Essmuller Mill Furnishing Company. Conditioning and tempering corn for degeneration and milling. No. 943,722; Dec. 21; Sp. p. 3656; Gaz. vol. 149; p. 635.
- Watkins, J. W., Zanesville, Ohio, assignor of one-half to J. T. Adams, Terre Haute, Ind. Lubricant. No. 939,646; Nov. 9; Sp. p. 2653; Gaz. vol. 148; p. 439.
- Watkins, M. F., Star Lime Works, Ky. Driving mechanism for sickle-bars. No. 937,123; Oct. 19; Sp. p. 3157; Gaz. vol. 147; p. 555.
- Watkins, R. L. (See Head, R., assignor.)
- Watkins, R. L., and R. Head, New York, N. Y.; said Head assignor to said Watkins. Photomicrographic apparatus. No. 921,317; May 11; Sp. p. 2502; Gaz. vol. 142; p. 435.
- Watkins, R. L., and R. Head, New York, N. Y.; said Head assignor to said Watkins. Combined moving-picture taking and projecting apparatus. No. 926,970; July 6; Sp. p. 546; Gaz. vol. 144; p. 89.
- Watkins, W. P., Iowa City, Iowa. Bale and package tie. No. 923,222; June 1; Sp. p. 212; Gaz. vol. 143; p. 35.
- Watrous, E. G., Chicago, Ill. Water-closet. No. 914,539; Mar. 9; Sp. p. 1869; Gaz. vol. 140; p. 318.



*Alphabetical list of patentees—Continued.*

- Watrous, E. L., Des Moines, Iowa. Fastening-button. No. 934,488; Sept. 21; Sp. p. 3065; Gaz. vol. 146; p. 534.
- Watrous, E. L., Des Moines, Iowa. Spout. No. 938,402; Oct. 26; Sp. p. 5897; Gaz. vol. 147; p. 1000.
- Watrous, E. L., Des Moines, Iowa. Sheet-metal socket. No. 938,403; Oct. 26; Sp. p. 5898; Gaz. vol. 147; p. 1000.
- Watson, C. E. (See Bearinger, Donahey, and Watson.)
- Watson, F. L., Lynchburg, Va. Radiator-valve. No. 914,209; Mar. 2; Sp. p. 1181; Gaz. vol. 140; p. 185.
- Watson, G. B., Chicago, Ill., assignor to Cordes-Watson Company. Waxing and scouring pad. No. 926,789; July 6; Sp. p. 162; Gaz. vol. 144; p. 27.
- Watson, G. R., North Yakima, Wash. Car-fender. No. 919,097; Apr. 20; Sp. p. 4419; Gaz. vol. 141; p. 772.
- Watson, H. (See James and Watson.)
- Watson, H., Washington, D. C. Safety device for elevators. No. 910,247; Jan. 19; Sp. p. 3696; Gaz. vol. 138; p. 670.
- Watson, H., Paterson, N. J. Warping-reed. No. 920,701; May 4; Sp. p. 1253; Gaz. vol. 142; p. 199.
- Watson, H. A., Kendallville, Ind. Time-relay for selective signaling. No. 917,916; Apr. 13; Sp. p. 1931; Gaz. vol. 141; p. 350.
- Watson, H. F., Oak Park, Ill. Driving mechanism. No. 944,585; Dec. 28; Sp. p. 1519; Gaz. vol. 149; p. 958.
- Watson, H. W., Denver, Colo., assignor of one-half to J. P. Bedford, New York, N. Y. Condiment-holder. No. 923,390; June 1; Sp. p. 646; Gaz. vol. 143; p. 93.
- Watson, H. W. and W. W., Jamestown, N. Y. Guide-strip for sliding screens. No. 943,800; Dec. 21; Sp. p. 3807; Gaz. vol. 149; p. 662.
- Watson, J. A. (See Johnson, C. C., assignor.)
- Watson, J. C., Terre Haute, Ind. Safety-valve. No. 941,478; Nov. 30; Sp. p. 6695; Gaz. vol. 148; p. 1134.
- Watson, J. H. (See Watson, W. E. and J. H.)
- Watson, J. L., Sr., and J. L., Jr., Los Angeles, Cal. Frangible receptacle. No. 939,572; Nov. 9; Sp. p. 2485; Gaz. vol. 148; p. 412.
- Watson, J. M., Ferris, Miss. Mail-box support. No. 935,715; Oct. 5; Sp. p. 195; Gaz. vol. 147; p. 31.
- Watson, J. S. (See Wayland, E. A., assignor.)
- Watson, J. T., Osage City, Kans. Safety device for railway-frogs. No. 944,754; Dec. 28; Sp. p. 5885; Gaz. vol. 149; p. 1014.
- Watson and McDaniel Company. (See Jahn, F. L., assignor.)
- Watson, O. A., Columbus, Miss. Artificial leg. No. 911,532; Feb. 2; Sp. p. 972; Gaz. vol. 139; p. 169.
- Watson, P. B., et al. (See Watson, W. P., assignor.)
- Watson, R. E., Winfield, La. Excavator. No. 933,683; Sept. 7; Sp. p. 1469; Gaz. vol. 146; p. 221.
- Watson, R. H., Munhall, Pa. Recovering nickel-steel scrap. No. 934,864; Sept. 21; Sp. p. 3798; Gaz. vol. 146; p. 659.
- Watson-Stillman Company. (See Stillman, F. H., assignor.)
- Watson, T. M., Maxton, N. C. Cotton-planter. No. 929,176; July 27; Sp. p. 5119; Gaz. vol. 144; p. 910.
- Watson, T. P., Houlton, Me. Spraying device. No. 926,791; July 6; Sp. p. 168; Gaz. vol. 144; p. 28.
- Watson, T. S., Milwaukee, Wis. Portable drill-driver. No. 933,144; Sept. 7; Sp. p. 216; Gaz. vol. 146; p. 37.
- Watson, W. E., Portland, Ore. Receptacle for phonograph-needles. No. 931,103; Aug. 17; Sp. p. 3112; Gaz. vol. 145; p. 545.
- Watson, W. E. and J. H., Hinsdale, N. H. Suction-nozzle. No. 917,819; Apr. 13; Sp. p. 1723; Gaz. vol. 141; p. 318.
- Watson, W. E. and J. H., Hinsdale, N. H. Suction-fan. No. 923,914; June 8; Sp. p. 1813; Gaz. vol. 143; p. 302.
- Watson, W. P., Middletown, Conn., assignor of one-third to P. B. Watson, Columbia, Pa., and one-third to E. H. Burckhardt, New York, N. Y. Attachment for looms. No. 926,447; June 29; Sp. p. 7014; Gaz. vol. 143; p. 1236.
- Watson, W. W. (See Watson, H. W. and W. W.)
- Watson, W. W., Jamestown, N. Y. Window-sash. No. 948,801; Dec. 21; Sp. p. 3809; Gaz. vol. 149; p. 662.
- Watt, A. B. (See Watt, R. S. and R. B.)
- Watt, F. J., Detroit, Mich. Spark-plug. No. 914,540; Mar. 9; Sp. p. 1872; Gaz. vol. 140; p. 318.
- Watt, F. J., New York, N. Y. Carburetor. No. 932,360; Aug. 24; Sp. p. 5765; Gaz. vol. 145; p. 984.
- Watt, J., Baltimore, Md. Combined step-ladder, ironing-board, and clothes-rack. No. 938,924; Nov. 2; Sp. p. 1047; Gaz. vol. 148; p. 165.
- Watt, J. A., et al. (See Gorman, F., assignor.)
- Watt, R. B. (See Watt, R. S. and A. B.)
- Watt, R. S., R. B., and A. B., Los Angeles, Cal. Ore-crusher. No. 929,177; July 27; Sp. p. 5120; Gaz. vol. 144; p. 910.
- Watters, C. V. and I. H., Galesburg, Ill. Non-refillable bottle. No. 935,074; Sept. 28; Sp. p. 4228; Gaz. vol. 146; p. 756.
- Watters, I. H. (See Watters, C. V. and I. H.)
- Watters, J. T., Chicago, Ill. Vehicle-hub. No. 928,413; July 20; Sp. p. 3567; Gaz. vol. 144; p. 631.
- Watters, W. W., Atlanta, Ga. Stop and waste cock. No. 911,858; Feb. 9; Sp. p. 1626; Gaz. vol. 139; p. 301.
- Wattie, W., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Lay for looms. No. 923,223; June 1; Sp. p. 212; Gaz. vol. 143; p. 35.
- Wattie, W. M., Worcester, Mass. Mat. No. 910,332; Jan. 19; Sp. p. 3887; Gaz. vol. 138; p. 699.
- Wattles, C. B., assignor to Surfacing Machine Company, Providence, R. I. Flexible support for abrasive material. No. 926,524; June 29; Sp. p. 7138; Gaz. vol. 143; p. 1260.
- Wattles, L. H., Providence, assignor of one-half to M. C. Messler, Pawtucket, R. I. Sparking igniter. No. 909,264; Jan. 12; Sp. p. 1697; Gaz. vol. 138; p. 306.
- Wattne, F. (See Opsal, S., assignor.)
- Watts, A., New Brighton, assignor of one-third to J. M. Richards and one-third to J. T. Moltrup, Beaver Falls, Pa. Bottle-making machine. No. 913,996; Mar. 2; Sp. p. 717; Gaz. vol. 140; p. 113.
- Watts, C. J., Trowbridge, England. Circulator. No. 917,206; Apr. 6; Sp. p. 503; Gaz. vol. 141; p. 87.
- Watts, H. I., assignor of one-third to E. S. Goodrich and one-third to G. H. Ward, Winchester, Ind. Word-meter. No. 935,178; Sept. 28; Sp. p. 4434; Gaz. vol. 146; p. 790.
- Watts, R. A., Keo, Ark. Paper-serving apparatus. No. 910,886; Jan. 26; Sp. p. 5019; Gaz. vol. 138; p. 904.
- Watts, R. E. (See Blackstone and Watts.)
- Watts, R. I., assignor to O. G. Woolverton, Topeka, Kans. Bit. No. 919,503; Apr. 27; Sp. p. 5490; Gaz. vol. 141; p. 943.
- Waugh, D. S., assignor to Denver Rock Drill & Machinery Company, Denver, Colo. Motive-fluid-operated tool. No. 915,813; Mar. 23; Sp. p. 4452; Gaz. vol. 140; p. 791.
- Waugh, D. S., assignor to Denver Rock Drill and Machinery Company, Denver, Colo. Hammer-drill. No. 919,270; Apr. 20; Sp. p. 4940; Gaz. vol. 141; p. 829.
- Waugh, D. S., assignor to Denver Rock Drill and Machinery Co., Denver, Colo. Drill-steel holding and packing means. No. 942,869; Dec. 7; Sp. p. 1744; Gaz. vol. 149; p. 283.
- Waugh, J. C., assignor of one-half to J. E. Bernier, St. Paul, Minn. Coin-holder for belt-buckles. No. 931,823; Aug. 24; Sp. p. 4658; Gaz. vol. 145; p. 807.
- Waugh, J. M., Chicago, Ill. Spring. No. 908,716; Jan. 5; Sp. p. 610; Gaz. vol. 138; p. 95.
- Way, G. W. (See Protheroe, Smith, and Way.)
- Way, S. B., St. Louis, Mo. Cross-arm fitting and insulator-support. No. 928,010; July 13; Sp. p. 2714; Gaz. vol. 144; p. 463.
- Way, S. B., and E. C. Freeze, St. Louis, Mo. Underground conduit. No. 928,826; July 20; Sp. p. 4392; Gaz. vol. 144; p. 765.
- Way, W. M., Austin, assignor to G. W. Trommlitz, Galveston, Tex. Wireless-telegraph receiver. No. 918,618; Apr. 20; Sp. p. 3391; Gaz. vol. 141; p. 614.
- Waycott, A., Cleveland, Ohio. Brake-head. No. 944,526; Dec. 28; Sp. p. 5386; Gaz. vol. 149; p. 937.
- Wayland, E. A., assignor of one-half to J. S. Watson, Chicago, Ill. Burglar-screen. No. 931,360; Aug. 17; Sp. p. 3679; Gaz. vol. 145; p. 636.
- Wayte, H., Milwaukee, Wis., assignor to M. Desenberg, Jr., Kalamazoo, Mich. Starting device for explosive-engines. No. 936,964; Oct. 12; Sp. p. 2829; Gaz. vol. 147; p. 471.
- Weagant, R. A., assignor of one-fiftieth to J. T. Flint and two-fiftieths to A. G. Flint, Derby Line, Vt., and two-fiftieths to R. J. Meekren, Stanstead, Canada. System for the distribution of electric power for traction purposes. No. 914,365; Mar. 2; Sp. p. 1521; Gaz. vol. 140; p. 235.
- Wear, F. F., San Francisco, Cal. Display-bin. No. 922,738; May 25; Sp. p. 5443; Gaz. vol. 142; p. 958.
- Wear, I. O., Oberlin, Kans. Sleeping doll. No. 912,637; Feb. 16; Sp. p. 3337; Gaz. vol. 139; p. 598.
- Weaser, W. H., Pittsfield, Mass. Eyeglasses. No. 934,113; Sept. 14; Sp. p. 2337; Gaz. vol. 146; p. 383.
- Weatherbee, E. M., New York, N. Y. Manicurist's buffer. No. 908,917; Jan. 5; Sp. p. 1001; Gaz. vol. 138; p. 160.
- Weatherill, H. G., Elgin, Ill. Whip-holder. No. 909,718; Jan. 12; Sp. p. 2598; Gaz. vol. 138; p. 459.
- Weatherly, J. R., Atlanta, Ga. Stalk-cutter. No. 939,573; Nov. 9; Sp. p. 2486; Gaz. vol. 148; p. 412.
- Weatherly, J. R., assignor of one-half to J. T. Taylor, Americus, Ga. Lever. No. 939,574; Nov. 9; Sp. p. 2487; Gaz. vol. 148; p. 412.
- Weatherly, W. M., Greensboro, N. C. Closet-fitting. No. 922,222; May 18; Sp. p. 4392; Gaz. vol. 142; p. 761.
- Weave-Print Company. (See Jacobson, J., assignor.)
- Weaver, A. B. (See Milliken and Weaver.)
- Weaver, B. L. (See Reimohle and Weaver.)
- Weaver, C. A., Roswell, Ga. Crutch. No. 929,524; July 27; Sp. p. 5827; Gaz. vol. 144; p. 1024.
- Weaver, C. B. (See Weaver, T. W. and C. B.)
- Weaver, C. E., Chelsea, Iowa. Continuous rail. No. 931,104; Aug. 17; Sp. p. 3113; Gaz. vol. 145; p. 546.
- Weaver, C. H., Hot Springs, Ark. Papeterie-display box. No. 910,753; Jan. 26; Sp. p. 4766; Gaz. vol. 138; p. 862.

*Alphabetical list of patentees—Continued.*

- Weaver, C. W., and P. G. Anderson, Toronto, Ontario, Canada. Ball-cock. No. 925,538; June 22; Sp. p. 5113; Gaz. vol. 143; p. 900.
- Weaver, E. E. (See Flanigan, R., assignor.)
- Weaver, E. L. (See Smith, E. L., assignor.)
- Weaver, E. M., Ozone Park, N. Y. Insulator for third rails. No. 932,523; Aug. 31; Sp. p. 6115; Gaz. vol. 145; p. 1061.
- Weaver, F. M., Philadelphia, Pa. Railway-tie. No. 913,246; Feb. 23; Sp. p. 4595; Gaz. vol. 139; p. 824.
- Weaver, H. E., Dallas, Tex. Apparatus for supplying, heating, and burning crude oil and air. No. 936,688; Oct. 12; Sp. p. 2296; Gaz. vol. 147; p. 381.
- Weaver, H. M., Mansfield, Ohio. Bath or basin waste. No. 913,077; Feb. 23; Sp. p. 4238; Gaz. vol. 139; p. 767.
- Weaver, H. M., Mansfield, Ohio. Bath and basin fitting. No. 916,643; Mar. 30; Sp. p. 6067; Gaz. vol. 140; p. 1087.
- Weaver, H. M., Mansfield, Ohio. Lavatory. No. 921,574; May 11; Sp. p. 3026; Gaz. vol. 142; p. 519.
- Weaver, J., Jr., and A. Martin, Pittsburg, Pa. Clothes-marker. No. 930,005; Aug. 3; Sp. p. 814; Gaz. vol. 145; p. 130.
- Weaver, J. B. (See Weaver, J. S. and J. B.)
- Weaver, J. H. (See Young and Weaver.)
- Weaver, J. J. (See Stanley, C. M., assignor.)
- Weaver, J. J., Ludlow, Ky. Turn-table. No. 910,754; Jan. 26; Sp. p. 4768; Gaz. vol. 138; p. 862.
- Weaver, J. P., Terre Haute, Ind. Reel-holder. No. 934,114; Sept. 14; Sp. p. 2339; Gaz. vol. 146; p. 383.
- Weaver, J. S. and J. B., New Oxford, Pa. Trough. No. 927,197; July 6; Sp. p. 1032; Gaz. vol. 144; p. 167.
- Weaver, J. W., Bremond, assignor of one-half to J. B. Murphy and J. V. Wright, Calvert, Tex. Carbide-feed device for acetylene-gas-generators. No. 937,124; Oct. 19; Sp. p. 3158; Gaz. vol. 147; p. 555.
- Weaver, L. E., East Hampton, Conn. Bobbin-case. No. 939,647; Nov. 9; Sp. p. 2654; Gaz. vol. 148; p. 439.
- Weaver, L. F. (See Hough and Weaver.)
- Weaver, L. F., Banning, Pa. Check-holder for mines. No. 936,201; Oct. 5; Sp. p. 1250; Gaz. vol. 147; p. 189.
- Weaver, M. S., Johnson City, Tenn. Receptacle. No. 930,445; Aug. 10; Sp. p. 1654; Gaz. vol. 145; p. 299.
- Weaver, P., Fort Worth, Tex. Beehive. No. 933,606; Sept. 7; Sp. p. 1325; Gaz. vol. 146; p. 196.
- Weaver, R. B., assignor to Long Arm System Company, Cleveland, Ohio. Apparatus for chamfering gear-teeth. No. 909,719; Jan. 12; Sp. p. 2599; Gaz. vol. 138; p. 460.
- Weaver, S. S., Shelby, Ohio. Merchandise-hanger. No. 914,469; Mar. 9; Sp. p. 1721; Gaz. vol. 140; p. 295.
- Weaver, T. A., Santa Rosa, Cal. Reinforcement for brick walls, &c. No. 938,925; Nov. 2; Sp. p. 1049; Gaz. vol. 148; p. 166.
- Weaver, T. W. and C. B., assignors of one-third to S. W. Shahan, Tunnelton, W. Va. Mine-car. No. 926,446; June 29; Sp. p. 7013; Gaz. vol. 143; p. 1235.
- Webb, A. N., Youngsville, Pa. Furniture-joint for wooden structures. No. 909,720; Jan. 12; Sp. p. 2603; Gaz. vol. 138; p. 460.
- Webb, C. W. (See Anderson, E. W., assignor.)
- Webb, D. L., Brooklyn, N. Y. Electric-lamp socket and bulb remover and replacer. No. 927,908; July 13; Sp. p. 2521; Gaz. vol. 144; p. 430.
- Webb, E. W., assignor of one-half to S. S. David, Chicago, Ill. Window-shade. No. 918,404; Apr. 13; Sp. p. 2920; Gaz. vol. 141; p. 515.
- Webb, F. M., Monroeville, Ind. Metallic-tie and track fastener. No. 910,249; Jan. 19; Sp. p. 3700; Gaz. vol. 138; p. 670.
- Webb, G. R. (See Comer, J. J., assignor.)
- Webb, J. B., St. Louis, Mo. Antifriction-bearing latch-bar for locks. No. 928,721; July 20; Sp. p. 4190; Gaz. vol. 144; p. 730.
- Webb, J. C., Chicago, Ill. Show-card stand. No. 934,489; Sept. 21; Sp. p. 3066; Gaz. vol. 146; p. 534.
- Webb, J. F., Jr., assignor to Electric Signograph & Semaphore Co., New York, N. Y. Train-stopping mechanism. No. 925,733; June 22; Sp. p. 5527; Gaz. vol. 143; p. 964.
- Webb, J. F., Jr., assignor to Electric Signograph and Semaphore Company, New York, N. Y. Train-stopping system. No. 932,923; Aug. 31; Sp. p. 6940; Gaz. vol. 145; p. 1193.
- Webb, J. F., Jr., assignor to Electric Signograph and Semaphore Co., New York, N. Y. Contact-maker. No. 932,924; Aug. 31; Sp. p. 6944; Gaz. vol. 145; p. 1193.
- Webb, J. F., Jr., assignor to Electric Signograph and Semaphore Co., New York, N. Y. Closed-circuit wiring for automatic train-stopping systems. No. 932,925; Aug. 31; Sp. p. 6946; Gaz. vol. 145; p. 1194.
- Webb, J. F., Jr., assignor to Electric Signograph and Semaphore Company, New York, N. Y. Train-stopping system. No. 932,926; Aug. 31; Sp. p. 6952; Gaz. vol. 145; p. 1194.
- Webb, J. F., Jr., Denver, Colo., assignor to Electric Signograph and Semaphore Company, Incorporated, New York, N. Y. Relay. No. 929,525; July 27; Sp. p. 5828; Gaz. vol. 144; p. 1024.
- Webb, J. F. and J. F., Jr., Denver, Colo., assignors to Electric Signograph and Semaphore Company, Incorporated, New York, N. Y. Means for controlling the operation of trains. No. 928,350; July 20; Sp. p. 3452; Gaz. vol. 144; p. 609.
- Webb, J. L., Oakley, Idaho. Door-stop. No. 942,686; Dec. 7; Sp. p. 1353; Gaz. vol. 149; p. 222.
- Webb, J. R., Jr. (See Stocks and Webb.)
- Webb, J. W., Becks Run, Pa. Grate. No. 931,534; Aug. 17; Sp. p. 4012; Gaz. vol. 145; p. 691.
- Webb, K., West Conshohocken, Pa. Oven-bottom. No. 921,762; May 18; Sp. p. 3438; Gaz. vol. 142; p. 612.
- Webb, M. F., Birmingham, Ala. Gas-valve. No. 917,386; Apr. 6; Sp. p. 868; Gaz. vol. 141; p. 149.
- Webb, M. G. (See Smith, C. D., assignor.)
- Webb, S. J., Minden, La. Compress. No. 921,489; May 11; Sp. p. 2864; Gaz. vol. 142; p. 493.
- Webb, S. J., Minden, La. Power-crane. No. 925,968; June 22; Sp. p. 6028; Gaz. vol. 143; p. 1042.
- Webb, S. J., Minden, La. Press. No. 944,392; Dec. 28; Sp. p. 5056; Gaz. vol. 149; p. 890.
- Webb, W., and W. W. Hildreth, Gloversville, N. Y. Work-holder attachment for lathe-chucks. No. 917,387; Apr. 6; Sp. p. 869; Gaz. vol. 141; p. 149.
- Webb, W. H., W. G. Brettell, and A. J. Adamson, Liverpool, England. Apparatus for air-moistening. No. 943,638; Dec. 14; Sp. p. 3481; Gaz. vol. 149; p. 578.
- Webb Wire Works. (See Vanderauwera, P., assignor.)
- Webber, A. (See Kush and Webber.)
- Webber, A. C., Marrickville, Sydney, New South Wales, Australia. Tire-tool. No. 929,905; Aug. 3; Sp. p. 610; Gaz. vol. 145; p. 96.
- Webber, J. B., Jr., assignor to Vulcan Iron Works Company, Toledo, Ohio. Excavator-controlling mechanism. No. 910,617; Jan. 26; Sp. p. 4496; Gaz. vol. 138; p. 820.
- Webber, W. F., Denver, Colo. Sash-lock. No. 915,001; Mar. 9; Sp. p. 2767; Gaz. vol. 140; p. 467.
- Weber, A. (See Roy and Weber.)
- Weber, A., New York, N. Y. Floor-oiler. No. 908,915; Jan. 5; Sp. p. 996; Gaz. vol. 138; p. 159.
- Weber, A., Long Branch, N. J. Shutter-operator. No. 910,248; Jan. 19; Sp. p. 3698; Gaz. vol. 138; p. 670.
- Weber, A., Long Branch, N. J. Shutter-operator. No. 941,899; Nov. 30; Sp. p. 7592; Gaz. vol. 148; p. 1278.
- Weber, A., Jr. (See Weber, A., Sr., A., Jr., and J.)
- Weber, A., Jr., Schenectady, N. Y. Fuse-plug. No. 925,539; June 22; Sp. p. 5115; Gaz. vol. 143; p. 901.
- Weber, A., Jr., assignor to A. Weber, Sr., Schenectady, N. Y. Insulator. No. 917,207; Apr. 6; Sp. p. 505; Gaz. vol. 141; p. 88.
- Weber, A., Sr. (See Weber, A., Jr., assignor.)
- Weber, A., Sr., assignor to Weber Electric Company, Schenectady, N. Y. Incandescent-electric-lamp socket. No. 915,135; Mar. 16; Sp. p. 3079; Gaz. vol. 140; p. 540.
- Weber, A., Sr., A., Jr., and J., assignors to Weber Electric Company, Schenectady, N. Y. Incandescent-electric-lamp socket. No. 916,812; Mar. 30; Sp. p. 6368; Gaz. vol. 140; p. 1138.
- Weber, C. H., Alton, and J. L. Brown, Columbus, Ohio. Manure-spreader. No. 918,232; Apr. 13; Sp. p. 2582; Gaz. vol. 141; p. 460.
- Weber Company. (See Witthoefft, C. H., assignor.)
- Weber Dental Manufacturing Company. (See Weber, H. E., assignor.)
- Weber Electric Company. (See Weber, A., Sr., assignor.)
- Weber Electric Company. (See Weber, A., Sr., A., Jr., and J., assignors.)
- Weber, F. M., Carsonville, Mich. Vending-machine. No. 942,117; Dec. 7; Sp. p. 191; Gaz. vol. 149; p. 29.
- Weber, G., Hagen, Germany. Manufacturing butt-hinges. No. 919,504; Apr. 27; Sp. p. 5491; Gaz. vol. 141; p. 943.
- Weber, G. A., Stamford Conn., assignor to Rail Joint Company, New York, N. Y. Rail-joint. No. 910,618; Jan. 26; Sp. p. 4498; Gaz. vol. 138; p. 820.
- Weber, G. C., Chicago, Ill. Opening device for receptacles. No. 911,927; Feb. 9; Sp. p. 1755; Gaz. vol. 139; p. 325.
- Weber, G. C., Chicago, Ill. Opening device for receptacles. No. 925,145; June 15; Sp. p. 4364; Gaz. vol. 143; p. 745.
- Weber, G. W., assignor to American Can Company, New York, N. Y. Hermetically securing covers on drawn or seamless sardine-cans. No. 918,619; Apr. 20; Sp. p. 3393; Gaz. vol. 141; p. 614.
- Weber, G. W., assignor to American Can Company, New York, N. Y. Sheet-metal tobacco-box. No. 919,659; Apr. 27; Sp. p. 5807; Gaz. vol. 141; p. 996.
- Weber, G. W., assignor to American Can Company, New York, N. Y. Sheet-metal pocket tobacco-box. No. 919,660; Apr. 27; Sp. p. 5809; Gaz. vol. 141; p. 997.



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- Weber, G. W., assignor to American Can Company, New York, N. Y. Detachable spout for shipping-cans. No. 927,617; July 13; Sp. p. 1890; Gaz. vol. 144; p. 334.
- Weber, G. W., assignor to American Can Company, New York, N. Y. Seamless or drawn sheet-metal can. No. 932,597; Aug. 31; Sp. p. 6280; Gaz. vol. 145; p. 1086.
- Weber, G. W., assignor to American Can Company, New York, N. Y. Sifter-top can or vessel. No. 933,507; Sept. 7; Sp. p. 1133; Gaz. vol. 146; p. 163.
- Weber, G. W., and W. J. Montgomery, Cumberland, Md. Railway safety device. No. 927,909; July 13; Sp. p. 2523; Gaz. vol. 144; p. 430.
- Weber, G. W., and G. F. Miller, assignors to American Can Company, New York, N. Y. Sheet-metal caddy for spices and other articles. No. 911,859; Feb. 9; Sp. p. 1627; Gaz. vol. 139; p. 302.
- Weber, G. W., F. Eberhart, New York, N. Y., and E. V. Swangren, Maywood, Ill., assignors to American Can Company, New York, N. Y. Can-cover-coating machine. No. 938,529; Nov. 2; Sp. p. 200; Gaz. vol. 148; p. 28.
- Weber, H. E., assignor to Weber Dental Manufacturing Company, Canton, Ohio. Cuspidor. No. 924,515; June 8; Sp. p. 3046; Gaz. vol. 143; p. 499.
- Weber, J. (See Goldschmidt and Weber.) (Reissue.)
- Weber, J. (See Weber, A. Sr., A. Jr., and J.)
- Weber, J., Wallington, N. J. Sawing device. No. 913,078; Feb. 23; Sp. p. 4239; Gaz. vol. 139; p. 768.
- Weber, J., Chicago, Ill. Lawn-trimmer. No. 913,790; Mar. 2; Sp. p. 243; Gaz. vol. 140; p. 41.
- Weber, J. B., Union Hill, N. J. Picture-frame. No. 918,233; Apr. 13; Sp. p. 2585; Gaz. vol. 141; p. 460.
- Weber, J. F., West Allis, Wis. Floor scraper or planer. No. 913,862; Mar. 2; Sp. p. 404; Gaz. vol. 140; p. 66.
- Weber, J. F., West Allis, Wis. Floor-polisher. No. 913,863; Mar. 2; Sp. p. 408; Gaz. vol. 140; p. 66.
- Weber, J. M. (See Patterson, R. B. Sr., assignor.)
- Weber, P., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 932,200; Aug. 24; Sp. p. 5472; Gaz. vol. 145; p. 932.
- Weber, P., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 932,201; Aug. 24; Sp. p. 5474; Gaz. vol. 145; p. 932.
- Weber, P., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 932,202; Aug. 24; Sp. p. 5476; Gaz. vol. 145; p. 933.
- Weber, P., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 936,266; Oct. 5; Sp. p. 1368; Gaz. vol. 147; p. 211.
- Weber, P., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 937,905; Oct. 26; Sp. p. 4805; Gaz. vol. 147; p. 831.
- Weber, P., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 942,475; Dec. 7; Sp. p. 939; Gaz. vol. 149; p. 151.
- Weber, R. H., Sioux Falls, S. D. Repair-plug. No. 926,371; June 29; Sp. p. 6871; Gaz. vol. 143; p. 1209.
- Weber, W. L., Boston, Mass., assignor to Belding & Franklin Machine Co., New York, N. Y. Decorticator. No. 930,511; Aug. 10; Sp. p. 1793; Gaz. vol. 145; p. 322.
- Webley and Scott Limited. (See Whiting, W. J., assignor.)
- Webster, A. A., Pittsburg, Pa. Lubricator. No. 922,223; May 18; Sp. p. 4393; Gaz. vol. 142; p. 762.
- Webster, A. L., assignor to Adjustable Seal Company, New York, N. Y. Device for impressing seals on papers. No. 909,836; Jan. 12; Sp. p. 2815; Gaz. vol. 138; p. 496.
- Webster, B. (See Shields and Webster.)
- Webster, C. B., administratrix. (See Webster, H. A.)
- Webster, C. R. (See Morgan and Webster.)
- Webster, D., Jr., Philadelphia, Pa. Automatic closer for powder-receptacles. No. 920,227; May 4; Sp. p. 275; Gaz. vol. 142; p. 44.
- Webster, E. A., Groveland, assignor to Haverhill Channeling Machine Company, Haverhill, Mass. Sole-channeling machine. No. 916,381; Mar. 23; Sp. p. 5505; Gaz. vol. 140; p. 977.
- Webster, E. A., and C. R. Towle, Haverhill, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Cementing attachment for heel-nailing machines. No. 943,723; Dec. 21; Sp. p. 3657; Gaz. vol. 149; p. 635.
- Webster, E. P., Bridgeport, Conn. Driving mechanism. No. 928,565; July 20; Sp. p. 3871; Gaz. vol. 144; p. 678.
- Webster, E. P., Bridgeport, Conn., assignor to National Blank Book Co., Holyoke, Mass. Loose-leaf binder. No. 938,530; Nov. 2; Sp. p. 207; Gaz. vol. 148; p. 29.
- Webster, E. S., *et al.* (See MacKaye, J., assignor.)
- Webster, F. D., St. Louis, Mo. Adjustable chart. No. 943,130; Dec. 14; Sp. p. 2378; Gaz. vol. 149; p. 404.
- Webster Full Expansion Rotary Engine Company. (See Webster, G. L., assignor.)
- Webster, G., Christiana, Pa. Separator-bowl. No. 913,079; Feb. 23; Sp. p. 4240; Gaz. vol. 139; p. 768.
- Webster, G., assignor to York Bridge Company, York, Pa. Sheathing metallic frames of buildings. No. 928,092; July 13; Sp. p. 2868; Gaz. vol. 144; p. 489.
- Webster, G. L., Midlothian, Tex., assignor to Webster Full Expansion Rotary Engine Company, St. Joseph, Mo. Rotary engine. No. 913,443; Feb. 23; Sp. p. 4979; Gaz. vol. 139; p. 891.
- Webster, H. A., assignor, by mesne assignments, to C. K. Fox, Haverhill, Mass. Sole-leveling machine. No. 940,627; Nov. 16; Sp. p. 4831; Gaz. vol. 148; p. 805.
- Webster, H. A., deceased; C. B. Webster, administratrix, assignor to Single Thread Lock Stitch Company, Haverhill, Mass. Shoe-stitching machine. No. 914,091; Mar. 2; Sp. p. 937; Gaz. vol. 140; p. 147.
- Webster, H. G., Chicago, Ill., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone-exchange system. No. 921,187; May 11; Sp. p. 2227; Gaz. vol. 142; p. 392.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Telephone system. No. 921,318; May 11; Sp. p. 2506; Gaz. vol. 142; p. 435.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Signaling system. No. 921,319; May 11; Sp. p. 2510; Gaz. vol. 142; p. 436.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Signaling system. No. 921,320; May 11; Sp. p. 2514; Gaz. vol. 142; p. 436.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Telephone system. No. 921,321; May 11; Sp. p. 2517; Gaz. vol. 142; p. 437.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Telephone-exchange system. No. 930,512; Aug. 10; Sp. p. 1794; Gaz. vol. 145; p. 322.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Telephone-exchange system. No. 930,513; Aug. 10; Sp. p. 1802; Gaz. vol. 145; p. 323.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Telephone-exchange system. No. 930,514; Aug. 10; Sp. p. 1814; Gaz. vol. 145; p. 324.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Telephone-exchange system. No. 930,515; Aug. 10; Sp. p. 1820; Gaz. vol. 145; p. 324.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Telephone system. No. 930,516; Aug. 10; Sp. p. 1823; Gaz. vol. 145; p. 325.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Telephone-exchange system. No. 930,517; Aug. 10; Sp. p. 1831; Gaz. vol. 145; p. 325.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Telephone system. No. 930,518; Aug. 10; Sp. p. 1839; Gaz. vol. 145; p. 326.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Telephone-exchange system. No. 930,519; Aug. 10; Sp. p. 1844; Gaz. vol. 145; p. 326.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Telephone system. No. 930,520; Aug. 10; Sp. p. 1849; Gaz. vol. 145; p. 327.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Telephone-exchange system. No. 930,521; Aug. 10; Sp. p. 1855; Gaz. vol. 145; p. 328.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Telephone system. No. 931,904; Aug. 24; Sp. p. 4829; Gaz. vol. 145; p. 832.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Telephone system. No. 931,905; Aug. 24; Sp. p. 4842; Gaz. vol. 145; p. 833.
- Webster, H. G., assignor to M. G. Kellogg, Chicago, Ill. Telephone system. No. 931,906; Aug. 24; Sp. p. 4854; Gaz. vol. 145; p. 833.
- Webster, H. G., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 941,666; Nov. 30; Sp. p. 7075; Gaz. vol. 148; p. 1186.
- Webster, H. M., Chicago, Ill. Display apparatus. No. 936,497; Oct. 12; Sp. p. 1903; Gaz. vol. 147; p. 314.
- Webster, J., Victorville, Cal. Latex-cup. No. 919,098; Apr. 20; Sp. p. 4421; Gaz. vol. 141; p. 772.
- Webster, J. E., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Brush-holder for dynamo-electric machines. No. 930,006; Aug. 3; Sp. p. 815; Gaz. vol. 145; p. 131.
- Webster, J. E., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Brush-holder for dynamo-electric machines. No. 930,007; Aug. 3; Sp. p. 817; Gaz. vol. 145; p. 131.
- Webster, J. E., Pittsburg, Pa., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Commutator for dynamo-electric machines. No. 931,105; Aug. 17; Sp. p. 3115; Gaz. vol. 145; p. 546.
- Webster, J. E., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flexible connection for cooperating members. No. 931,165; Aug. 17; Sp. p. 3255; Gaz. vol. 145; p. 568.

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- Webster, J. E., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Vehicle-wheel. No. 937,345; Oct. 19; Sp. p. 3638; Gaz. vol. 147; p. 625.
- Webster, J. E., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Resilient connection. No. 937,346; Oct. 19; Sp. p. 3640; Gaz. vol. 147; p. 626.
- Webster, J. E., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Resilient driving connection. No. 937,347; Oct. 19; Sp. p. 3642; Gaz. vol. 147; p. 626.
- Webster, L. H., Belvidere, N. Y. Telephone-mouthpiece guard. No. 935,618; Sept. 28; Sp. p. 5329; Gaz. vol. 146; p. 935.
- Webster, O. E., assignor of one-half to J. F. Fulton, Summitville, Ind. Wheel-plow. No. 917,208; Apr. 6; Sp. p. 506; Gaz. vol. 141; p. 88.
- Webster and Perks Tool Company. (See Forbes and Singer, assignors.)
- Webster, R. M., *et al.* (See Welling, J. E., assignor.)
- Webster, R. W., London, and L. Chew, assignors to H. J. West and Company, "Limited," Saxilby, England. Counter-pressure bottling-machine for beer, mineral waters, and the like. No. 921,032; May 11; Sp. p. 1906; Gaz. vol. 142; p. 337.
- Webster, T. B., Baltimore, Md. Oyster-dredge. No. 929,355; July 27; Sp. p. 5542; Gaz. vol. 144; p. 971.
- Webster, W., Minneapolis, Minn. Excavating and hoisting device. No. 925,734; June 22; Sp. p. 5530; Gaz. vol. 143; p. 964.
- Webster, W., London, Ontario, Canada, assignor, by mesne assignments, to Warren Featherbone Company of Michigan, Three Oaks, Mich. Machine for preparing stiffening materials. No. 926,790; July 6; Sp. p. 163; Gaz. vol. 144; p. 28.
- Webster, W., London, Ontario, Canada, assignor, by mesne assignments, to Warren Featherbone Company of Michigan, Three Oaks, Mich. Machine for treating quill substances. No. 927,439; July 6; Sp. p. 1486; Gaz. vol. 144; p. 246.
- Webster, W. H., Hartford, Conn. Combined match-box and cigar-cutter. No. 924,022; June 8; Sp. p. 2026; Gaz. vol. 143; p. 336.
- Wecht, P., and J. Winfield, Fostoria Ohio. Machine for making concrete blocks. No. 915,517; Mar. 16; Sp. p. 3816; Gaz. vol. 140; p. 664.
- Weck, E., New York, N. Y. Razor. No. 929,058; July 27; Sp. p. 4880; Gaz. vol. 144; p. 871.
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- Weckerly, F., St. Davids, Pa. Composition of material for and manufacture of railway-ties, posts, and similar articles. No. 933,145; Sept. 7; Sp. p. 217; Gaz. vol. 146; p. 37.
- Weckesser, O. H., Ross township, Allegheny county, Pa. Mixing-machine. No. 941,830; Nov. 30; Sp. p. 7452; Gaz. vol. 148; p. 1253.
- Wedderburn, G., Vienna, Va. Extensible drop-light. No. 929,060; July 27; Sp. p. 4881; Gaz. vol. 144; p. 871.
- Weddington, W. M., Hugo, Okla. Grinder. No. 919,407; Apr. 27; Sp. p. 5248; Gaz. vol. 141; p. 909.
- Weddle, D. J., Suisun, Cal. Propeller. No. 915,136; Mar. 16; Sp. p. 3080; Gaz. vol. 140; p. 541.
- Weddle, J., Lebanon, Kans. Automatic hay-holder. No. 932,524; Aug. 31; Sp. p. 6116; Gaz. vol. 145; p. 1061.
- Wedekind, G. A., and H. P. R. L. Poerscke, Hamburg, Germany; said Poerscke assignor to said Wedekind. Battery-electrode. No. 937,730; Oct. 19; Sp. p. 4440; Gaz. vol. 147; p. 753.
- Wedell, O. B., Elgin, Ill. Eyeglass-chain reel. No. 938,359; Oct. 26; Sp. p. 5804; Gaz. vol. 147; p. 985.
- Wedge, U., Ardmore, Pa. Furnace. No. 916,234; Mar. 23; Sp. p. 5247; Gaz. vol. 140; p. 927.
- Wedge, U., Ardmore, Pa. Stirring and conveying device for furnaces. No. 927,389; July 6; Sp. p. 1371; Gaz. vol. 144; p. 228.
- Wedge, U., Ardmore, Pa. Roasting and like furnace. No. 939,880; Nov. 9; Sp. p. 3138; Gaz. vol. 143; p. 518.
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- Wedge, U., Ardmore, Pa. Furnace. No. 939,934; Nov. 9; Sp. p. 3267; Gaz. vol. 143; p. 539.
- Wedin, H. P., Christianstad, Sweden. Piston-pump. No. 931,535; Aug. 17; Sp. p. 4014; Gaz. vol. 145; p. 692.
- Wedlake, G. K., assignor to Cockshutt Plow Co., Limited, Brantford, Canada. Traction-plow. No. 926,306; June 29; Sp. p. 6741; Gaz. vol. 143; p. 1189.
- Wedmore, D. A., assignor to Philadelphia Steel & Wire Co., Philadelphia, Pa. Metallic reinforce for concrete construction. No. 918,715; Apr. 20; Sp. p. 3660; Gaz. vol. 141; p. 649.
- Wedmore, D. A., assignor to Philadelphia Steel & Wire Co., Philadelphia, Pa. Metallic reinforce for concrete construction. No. 918,716; Apr. 20; Sp. p. 3662; Gaz. vol. 141; p. 649.
- Wedmore, D. A., assignor to Philadelphia Steel & Wire Co., Philadelphia, Pa. Wire tie for metallic reinforces. No. 919,099; Apr. 20; Sp. p. 4422; Gaz. vol. 141; p. 773.
- Wedmore, D. A., assignor to Philadelphia Steel & Wire Co., Philadelphia, Pa. Metallic reinforce for concrete construction. No. 919,100; Apr. 20; Sp. p. 4423; Gaz. vol. 141; p. 773.
- Wedmore, E. B., Rugby, England, assignor to General Electric Company. Electric switch. No. 910,333; Jan. 19; Sp. p. 3888; Gaz. vol. 138; p. 699.
- Wedmore, E. B., Rugby, England, assignor to General Electric Company. Switch for electric circuits. No. 917,209; Apr. 6; Sp. p. 507; Gaz. vol. 141; p. 88.
- Weeber, R., Vienna, Austria-Hungary. Production of a leather substitute. No. 927,198; July 6; Sp. p. 1033; Gaz. vol. 144; p. 167.
- Weed, C. A. (See Penney, H. D., assignor.)
- Weed, C. A. (See Penney, H. D., assignor.) (Reissue.)
- Weed, J. L., Wheaton, Ill. Coin-controlled vending-machine. No. 918,107; Apr. 13; Sp. p. 2335; Gaz. vol. 141; p. 418.
- Weed, J. L., Wheaton, Ill. Coin-controlled vending-machine. No. 921,763; May 18; Sp. p. 3439; Gaz. vol. 142; p. 612.
- Weedon, W. S., Schenectady, N. Y., assignor to General Electric Company. Electric-arc lamp. No. 926,792; July 6; Sp. p. 170; Gaz. vol. 144; p. 29.
- Weedon, W. S., Schenectady, N. Y., assignor to General Electric Company. Arc-lamp. No. 926,793; July 6; Sp. p. 174; Gaz. vol. 144; p. 29.
- Weeks, C. A., Philadelphia, Pa., assignor to Rail Joint Company, New York, N. Y. Pattern for rail-joint castings. No. 934,703; Sept. 21; Sp. p. 3483; Gaz. vol. 146; p. 606.
- Weeks, F. D., Salida, Colo., assignor to Ohio and Colorado Smelting and Refining Company, New York, N. Y. Calcining, desulfurizing, agglomerating, and sintering ores and the like. No. 916,903; Mar. 30; Sp. p. 6545; Gaz. vol. 140; p. 1168.
- Weeks, G. M., Newark, N. J. Milk-can. No. 911,465; Feb. 2; Sp. p. 838; Gaz. vol. 139; p. 147.
- Weeks, N., Richmond Hill, N. Y., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical-lamp fixture. No. 912,514; Feb. 16; Sp. p. 3081; Gaz. vol. 139; p. 554.
- Weeks, O. J., New York, N. Y. Receptacle. No. 924,205; June 8; Sp. p. 2436; Gaz. vol. 143; p. 397.
- Weeks, W. C., Seattle, Wash. Excavating device. No. 921,928; May 18; Sp. p. 3778; Gaz. vol. 142; p. 665.
- Weelans, C. (See Clifford and Weelans.)
- Weerts, E., Wentworth, S. D. Agricultural implement. No. 915,814; Mar. 23; Sp. p. 4458; Gaz. vol. 140; p. 791.
- Weese, O. R., assignor of one-half to I. L. Oppenheimer, Pomeroy, Ohio. Packing for stuffing-boxes. No. 917,690; Apr. 6; Sp. p. 1410; Gaz. vol. 141; p. 249.
- Weever, J. B., Evansville, Ind. Rail-joint. No. 922,224; May 18; Sp. p. 4396; Gaz. vol. 142; p. 762.
- Wege, F. M., assignor to General Fireproofing Company, Youngstown, Ohio. Metallic structure. No. 913,334; Feb. 23; Sp. p. 4772; Gaz. vol. 139; p. 854.
- Wegener, C., Charlottenburg, Germany. Boiler. No. 931,907; Aug. 24; Sp. p. 4865; Gaz. vol. 145; p. 834.
- Wegener, G., Miskolcz, Austria-Hungary. Composition for preventing scale in boilers. No. 911,928; Feb. 9; Sp. p. 1757; Gaz. vol. 139; p. 325.
- Weglein, L., Jr., Philadelphia, Pa. Combination reflecting device and sound-conveyer. No. 927,910; July 13; Sp. p. 2526; Gaz. vol. 144; p. 431.
- Weglein, L., Jr., Philadelphia, Pa. Knockdown box. No. 941,117; Nov. 23; Sp. p. 5893; Gaz. vol. 148; p. 993.
- Wegner, F., Fairport, N. Y. Can-body-making machine. No. 923,740; June 1; Sp. p. 1368; Gaz. vol. 143; p. 214.
- Wegner, F., assignor to Sanitary Can Company, Fairport, N. Y. Can-body and blank therefor. No. 923,741; June 1; Sp. p. 1372; Gaz. vol. 143; p. 214.
- Wegner, H. J., Auburn, Nebr. Gasolene-engine. No. 923,093; May 25; Sp. p. 6182; Gaz. vol. 142; p. 1072.
- Wegner, J. (See Williams and Wegner.)
- Wegner, W. F., assignor of one-half to H. H. Chipps, New York, N. Y. Rotary brush. No. 922,225; May 18; Sp. p. 4398; Gaz. vol. 142; p. 763.
- Wehling, H. C., Houston, Tex. Mail delivery and receiving device. No. 908,632; Jan. 5; Sp. p. 421; Gaz. vol. 138; p. 68.
- Wehling, H. C., Houston, Tex. Mail-catcher. No. 909,042; Jan. 5; Sp. p. 1239; Gaz. vol. 138; p. 199.
- Wehner, B., North Braddock, Pa. Driving-center for lathes. No. 913,594; Feb. 23; Sp. p. 5319; Gaz. vol. 139; p. 941.
- Wehner, W. (See Hilekman, K., assignor.)
- Wehrenberg, C. E., Mound City, assignor to Belleville Baler Company, Belleville, Ill. Baling-press. No. 918,620; Apr. 20; Sp. p. 3396; Gaz. vol. 141; p. 614.
- Wehrle, G. M., assignor to National Water Main Cleaning Co., New York, N. Y. Device for joining parts of conduits. No. 940,098; Nov. 16; Sp. p. 3670; Gaz. vol. 148; p. 625.
- Wehrman, W. A., and J. C. Trueblood, Belle Plain, Iowa. Cylinder-ring. No. 928,294; July 20; Sp. p. 3343; Gaz. vol. 144; p. 589.
- Weichel, T. A., Elyria, Ohio. Rail-anchoring device. No. 921,929; May 18; Sp. p. 3780; Gaz. vol. 142; p. 665.
- Weichold, C. F., Columbus, Ohio. Stair-rail-projecting device. No. 908,526; Jan. 5; Sp. p. 197; Gaz. vol. 138; p. 34.
- Weichselbaum, W., Savannah, Ga. Deutal plugger. No. 915,137; Mar. 16; Sp. p. 3081; Gaz. vol. 140; p. 541.
- Weickel, H., and H. E. Frentzel, assignors to Pawling & Harnischfeger, Milwaukee, Wis. Load-brake. No. 933,866; Sept. 14; Sp. p. 1843; Gaz. vol. 146; p. 304.



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- Weidely, G. A., assignor of one-half to H. O. Smith, Indianapolis, Ind. Sparker. No. 928,484; July 20; Sp. p. 3710; Gaz. vol. 144; p. 653.
- Weidemann, T. R., Jersey City, N. J., assignor to Adolph Raudnitz Co. Hand-bag and the like. No. 910,619; Jan. 26; Sp. p. 4501; Gaz. vol. 138; p. 820.
- Weidenbach, M. F. (See Smith and Weidenbach.)
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- Weidenbach, M. F., and F. B. Peters, assignors to Manuel-Smith Heating Company, Minneapolis, Minn. Combined heating and ventilating system. No. 931,824; Aug. 24; Sp. p. 4659; Gaz. vol. 145; p. 807.
- Weidenbauer, A., *et al.* (See Nordhaus, W. H., assignor.)
- Weidener, F., Bredeneu, near Essen, Germany. Gas-producer. No. 933,804; Sept. 14; Sp. p. 1709; Gaz. vol. 146; p. 283.
- Weidhaas, G. A. (See Daly, Weidhaas, and Henry.)
- Weidlein, E., Augusta, Kans. Cleaning attachment for horse-rakes. No. 909,721; Jan. 12; Sp. p. 2604; Gaz. vol. 138; p. 460.
- Weidmann & Co. (See Siegrist, H., assignor.)
- Weidner, E. J., Lindsay, Nebr. Tire-protector. No. 922,739; May 25; Sp. p. 5444; Gaz. vol. 142; p. 958.
- Weigel, E. (See Hauck, J., assignor.)
- Weigel, J., Flandreau, S. D. Finger bar and guard. No. 936,063; Oct. 5; Sp. p. 981; Gaz. vol. 147; p. 147.
- Weigel, M. K., assignor to Killing Molding Machine Co., Davenport, Iowa. Molding-machine. No. 916,511; Mar. 30; Sp. p. 5829; Gaz. vol. 140; p. 1046.
- Weigert-Sterne, L. (See Wilson and Weigert-Sterne.)
- Weightze, F. E., Denver, Colo. Skein-holder. No. 935,342; Sept. 28; Sp. p. 4771; Gaz. vol. 146; p. 844.
- Weigte, N. E., Weir, Kans. Attachment for coat-hangers. No. 926,794; July 6; Sp. p. 178; Gaz. vol. 144; p. 29.
- Weigte, T., assignor to Gebrueder Gabler, Schorndorf, Germany. Thimble. No. 926,040; June 22; Sp. p. 6172; Gaz. vol. 143; p. 1066.
- Weigley, W. W., *et al.* (See MacFarland, A. M., assignor.)
- Weigt, A., New York, N. Y. Puzzle. No. 943,496; Dec. 14; Sp. p. 3137; Gaz. vol. 149; p. 529.
- Weil, J., Mansfield, Ohio. Rotary skating-rink. No. 916,072; Mar. 23; Sp. p. 4941; Gaz. vol. 140; p. 875.
- Weil, M. I. (See Durdin, A. C., Jr., assignor.)
- Weil, O. (See Goldschmidt and Weil.)
- Weil, S. H., *et al.* (See Raders, J. F., assignor.)
- Weiland, A., Philadelphia, Pa. Carbureter. No. 911,349; Feb. 2; Sp. p. 638; Gaz. vol. 139; p. 109.
- Weiland, C., Chicago, Ill. Cushion-tire. No. 919,661; Apr. 27; Sp. p. 5810; Gaz. vol. 141; p. 997.
- Weiland, G., Stockton, Cal. Underfed fuel-stoker. No. 931,536; Aug. 17; Sp. p. 4016; Gaz. vol. 145; p. 692.
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- Weimer, J., Swissvale, and R. H. Wallace, New Brighton, Pa. Drilling-machine for rails. No. 922,226; May 18; Sp. p. 4399; Gaz. vol. 142; p. 763.
- Welmer, R., Sheboygan, Wis. Substitute for tin oxid used for enameling metal ware. No. 932,839; Aug. 31; Sp. p. 6795; Gaz. vol. 145; p. 1165.
- Weinacht, E., Elizabeth, N. J. Packing case or box for motor-cars. No. 919,798; Apr. 27; Sp. p. 6060; Gaz. vol. 141; p. 1042.
- Weinat, E. M., Maywood, assignor of one-half to W. D. Kane, Chicago, Ill. Rotary explosion-engine. No. 908,916; Jan. 5; Sp. p. 998; Gaz. vol. 138; p. 160.
- Weinbeer, G., Nuremberg, Germany. Malt-spreading-out apparatus. No. 934,115; Sept. 14; Sp. p. 2341; Gaz. vol. 146; p. 384.
- Weinberg, A., Pittsburg, Pa. Electric time-switch. No. 937,559; Oct. 19; Sp. p. 4109; Gaz. vol. 147; p. 699.
- Weinberg, I. J., Chicago, Ill. Mattress. No. 931,361; Aug. 17; Sp. p. 3682; Gaz. vol. 145; p. 636.
- Weinel, A. A. (See Brenner, G., assignor.)
- Weiner, J., assignor to J. J. Cassidy and A. Larson, Cleveland, Ohio. Coin-controlled electrical device or machine. No. 912,924; Feb. 16; Sp. p. 3928; Gaz. vol. 139; p. 691.
- Weiner, L., assignor to Frank P. Heid and Company, Philadelphia, Pa. Head-covering. No. 917,210; Apr. 6; Sp. p. 509; Gaz. vol. 141; p. 89.
- Weinfeld, W., assignor of one-half to W. Greenfield, New York, N. Y. Fly-catcher. No. 925,616; June 22; Sp. p. 5273; Gaz. vol. 143; p. 927.
- Weingarden, I. M., and A. Cummings, Chicago, Ill. Theatrical apparatus. No. 938,927; Nov. 2; Sp. p. 1051; Gaz. vol. 148; p. 166.
- Weinhauer, F. H., New York, N. Y. Spark-plug. No. 913,595; Feb. 23; Sp. p. 5320; Gaz. vol. 139; p. 942.
- Weinhauer, F. H., New York, N. Y. Spark-plug. No. 920,702; May 4; Sp. p. 1255; Gaz. vol. 142; p. 200.
- Weinhauer, F. H., New York, N. Y. Spark-plug. No. 938,188; Oct. 26; Sp. p. 5429; Gaz. vol. 147; p. 925.
- Weinheim E., New York, N. Y. Artificial tanned fabric with finished coating and making same. No. 926,525; June 29; Sp. p. 7137; Gaz. vol. 143; p. 1260.
- Weinheim, E., New York, N. Y. Leatherlike-surfaced fabric and making same. No. 926,526; June 29; Sp. p. 7140; Gaz. vol. 143; p. 1261.
- Weinheim, E., New York, N. Y. Artificial tanned fabric and making same. No. 926,527; June 29; Sp. p. 7143; Gaz. vol. 143; p. 1261.
- Weinger, H., assignor to Progress Typewriter Supply Co., Ltd., London, England. Machine for composing or setting up type. No. 919,408; Apr. 27; Sp. p. 5250; Gaz. vol. 141; p. 910.
- Weinkauf, F., *et al.* (See Schirra, J., assignor.)
- Weinland, H. F., assignor to Lagonda Manufacturing Company, Springfield, Ohio. Flue-cleaner. No. 917,211; Apr. 6; Sp. p. 512; Gaz. vol. 141; p. 89.
- Weinland, H. F. and H. G., and G. H. Ainge, assignors to Lagonda Manufacturing Company, Springfield, Ohio. Turbine for driving boiler-tube cleaners. No. 936,498; Oct. 12; Sp. p. 1908; Gaz. vol. 147; p. 315.
- Weinland, H. G. (See Weinland and Ainge.)
- Weinrich, A. and C., Worris, Germany. Pyrotechnic toy. No. 909,265; Jan. 12; Sp. p. 1700; Gaz. vol. 138; p. 306.
- Weinrich, C. (See Weinrich, A. and C.)
- Weinschenker, S., Chester Park, N. Y. Garment. No. 925,146; June 15; Sp. p. 4366; Gaz. vol. 143; p. 745.
- Weinschenker, G. (See Enz and Weinschenker.)
- Weinstock, D., New York, N. Y. Fire-escape. No. 930,580; Aug. 10; Sp. p. 1967; Gaz. vol. 145; p. 346.
- Weintraub, E., Schenectady, N. Y., assignor to General Electric Company. Envelop for vapor electric conductors. No. 917,212; Apr. 6; Sp. p. 514; Gaz. vol. 141; p. 90.
- Weintraub, E., Schenectady, N. Y., assignor to General Electric Company. Suspension of carbon in alkali metals and making same. No. 922,645; May 25; Sp. p. 5245; Gaz. vol. 142; p. 928.
- Weintraub, E., Schenectady, N. Y., assignor to General Electric Company. Vapor electric apparatus. No. 925,060; June 15; Sp. p. 4204; Gaz. vol. 143; p. 716.
- Weintraub, E., Schenectady, N. Y., and M. C. A. Latour, Paris, France, assignors to General Electric Company. Producing amplified current variations. No. 921,930; May 18; Sp. p. 3783; Gaz. vol. 142; p. 666.
- Weintz, J., Cleveland, Ohio. Gas-burner. No. 941,437; Nov. 30; Sp. p. 6608; Gaz. vol. 148; p. 1120.
- Weintz, J., assignor to Strong, Carlisle & Hammond Company, Cleveland, Ohio. Oil-burner. No. 941,479; Nov. 30; Sp. p. 6696; Gaz. vol. 148; p. 1134.
- Weir, H., Portland, Oreg. Inhaler. No. 921,034; May 11; Sp. p. 1910; Gaz. vol. 142; p. 338.
- Weir, J. L., Chatham, Ontario, Canada. Shoe-dauber. No. 936,590; Oct. 12; Sp. p. 2086; Gaz. vol. 147; p. 346.
- Weir, O. M., Laurel, Ind. Ratchet-wrench. No. 927,618; July 13; Sp. p. 1891; Gaz. vol. 144; p. 334.
- Weis, F. N., and C. F. Hehle, assignors to Weis Manufacturing Company, Monroe, Mich. Door-guide for sectional bookcases. No. 928,566; July 20; Sp. p. 3874; Gaz. vol. 144; p. 678.
- Weis, J., St. Paul, Minn. Combined pick and crowbar. No. 914,541; Mar. 9; Sp. p. 1873; Gaz. vol. 140; p. 319.
- Weis, J., Port Clinton, Ohio. Suspensers. No. 928,722; July 20; Sp. p. 4192; Gaz. vol. 144; p. 738.
- Weis, J. P., Brooklyn, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Company. Needle-clamp for sewing-machines. No. 914,325; May 2; Sp. p. 1427; Gaz. vol. 140; p. 221.
- Weis, J. P., Brooklyn, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Company. Sewing-machine. No. 921,182; May 11; Sp. p. 2234; Gaz. vol. 142; p. 393.
- Weis, J. P., assignor to Metropolitan Sewing Machine Company, Nyack, N. Y. Seam for sewed articles. No. 921,189; May 11; Sp. p. 2237; Gaz. vol. 142; p. 393.
- Weis, J. P., Brooklyn, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Company. Binding sewing-machine. No. 922,646; May 25; Sp. p. 5246; Gaz. vol. 142; p. 928.
- Weis, J. P., assignor to Metropolitan Sewing Machine Company, Nyack, N. Y. Loooper mechanism for sewing-machines. No. 933,407; Sept. 7; Sp. p. 837; Gaz. vol. 146; p. 130.
- Weis, J. P., assignor to Metropolitan Sewing Machine Company, Nyack, N. Y. Thread-controlling mechanism for sewing-machines. No. 933,408; Sept. 7; Sp. p. 840; Gaz. vol. 146; p. 131.

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 Weisler, A., assignor of one-half to E. Robb, Perryville, Mo. Vehicle-coupling. No. 934,250; Sept. 14; Sp. p. 2609; Gaz. vol. 146; p. 431.  
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 Weismann, A., Berlin, Germany. Advertising apparatus. No. 942,021; Nov. 30; Sp. p. 7816; Gaz. vol. 143; p. 1317.  
 Weismantel, J. W., Newark, N. J. Snow-remover. No. 929,737; Aug. 3; Sp. p. 213; Gaz. vol. 145; p. 37.  
 Weiss, A. H., Evanston, assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Subscriber's-telephone instrument. No. 916,235; Mar. 23; Sp. p. 5249; Gaz. vol. 140; p. 927.  
 Weiss, A. H., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Microphone desk-stand. No. 934,865; Sept. 21; Sp. p. 3799; Gaz. vol. 146; p. 659.  
 Weiss, C., Brooklyn, N. Y. Tape tension device for sewing-machines. No. 914,769; Mar. 9; Sp. p. 2351; Gaz. vol. 140; p. 394.  
 Weiss, C., Brooklyn, N. Y. Cloth-handling machine. No. 937,398; Oct. 19; Sp. p. 3756; Gaz. vol. 147; p. 643.  
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 Weiss, C. W., New York, N. Y. Turbine-engine. No. 926,157; June 29; Sp. p. 6431; Gaz. vol. 143; p. 1140.  
 Weiss, C. W., assignor of one-half to A. Mietz, New York, N. Y. Internal-combustion engine. No. 908,527; Jan. 5; Sp. p. 199; Gaz. vol. 138; p. 34.  
 Weiss, E., Monroe, Wis. Stirring device. No. 913,864; Mar. 2; Sp. p. 412; Gaz. vol. 140; p. 67.  
 Weiss, G. F., Mobile, Ala., assignor of one-fourth to E. H. Britton, one-fourth to W. A. Ramsey, and one-fourth to V. P. Gaines. Railway-switch device. No. 933,730; Sept. 7; Sp. p. 1585; Gaz. vol. 146; p. 239.  
 Weiss, G. L., assignor to Cleveland Car Specialty Company, Cleveland, Ohio. Strengthening device for the ends of railway box-cars. No. 943,497; Dec. 14; Sp. p. 3139; Gaz. vol. 149; p. 529.  
 Weiss, G. W., New York, N. Y. Thread and tape holder. No. 934,251; Sept. 14; Sp. p. 2610; Gaz. vol. 146; p. 431.  
 Weiss, K., Waterbury, Conn. Self-timing speed-indicator. No. 916,512; Mar. 30; Sp. p. 5832; Gaz. vol. 140; p. 1046.  
 Weiss, M., New York, N. Y. Horse-boot. No. 933,508; Sept. 7; Sp. p. 1135; Gaz. vol. 146; p. 163.  
 Weiss, M. L., St. Louis, Mo. Renovating apparel. No. 930,522; Aug. 10; Sp. p. 1860; Gaz. vol. 145; p. 328.  
 Weiss, N., assignor to American Cigar Company, New York, N. Y. Cigar-press. No. 910,977; Jan. 26; Sp. p. 5178; Gaz. vol. 138; p. 933.  
 Weissenborn, A. B., Appleton, Wis. Seam for Fourdrinier wires. No. 932,361; Aug. 24; Sp. p. 5768; Gaz. vol. 145; p. 985.  
 Weissenborn, J. E., St. Louis, Mo. Pyrotechnic picture. No. 915,256; Mar. 16; Sp. p. 3316; Gaz. vol. 140; p. 579.  
 Weissenborn, P., assignor to Kruse & Breying, Barmen, Germany. Electrical pattern for the manufacture of jacquard-cards. No. 933,805; Sept. 14; Sp. p. 1712; Gaz. vol. 146; p. 284.  
 Weissich, W. O., San Francisco, Cal. Register for telephones. No. 919,662; Apr. 27; Sp. p. 5812; Gaz. vol. 141; p. 997.  
 Weissmüller, R. E., Runcorn, assignor to W. Gossage & Sons Limited, Widnes, England. Manufacture of soluble alkali silicates. No. 932,204; Aug. 24; Sp. p. 5479; Gaz. vol. 145; p. 933.  
 Weisz, A. R., Brooklyn, N. Y., assignor to Weisz Rotary Piston and Atmospheric Motor Company. Screw-propeller. No. 915,255; Mar. 16; Sp. p. 3315; Gaz. vol. 140; p. 579.  
 Weisz, A. R., assignor to Matchless Cigar Lighter Company, New York, N. Y. Screw-cutter. No. 919,271; Apr. 20; Sp. p. 4944; Gaz. vol. 141; p. 829.  
 Weisz, L., Budapest, Austria-Hungary. Briquetting metallic iron. No. 943,724; Dec. 21; Sp. p. 3661; Gaz. vol. 149; p. 636.  
 Weisz Rotary Piston and Atmospheric Motor Company. (See Weisz, A. R., assignor.)  
 Weitbrech, J. T., Denver, Colo. Pressure-controlled regulator. No. 910,033; Jan. 19; Sp. p. 3225; Gaz. vol. 138; p. 595.  
 Weitzel, R. C. (See Jensen and Weitzel.)  
 Weizenback, A., Glehn, near Neuss, Germany. Register for filing documents. No. 921,931; May 18; Sp. p. 3785; Gaz. vol. 142; p. 666.  
 Weizmann, C., Rusholme, Manchester, assignor to Clayton Aniline Company, Limited, Clayton, England. Making isobornyl esters. No. 910,978; Jan. 26; Sp. p. 5181; Gaz. vol. 138; p. 934.  
 Welch, A. R. and F. S. Pontiac, Mich. Apparatus for circulating and cooling fluid. No. 914,686; Mar. 9; Sp. p. 2180; Gaz. vol. 140; p. 366.  
 Welch, C. W. (See Williams and Welch.)  
 Welch, D. J., Mabel, Minn. Disk fender for plows. No. 925,541; June 22; Sp. p. 5118; Gaz. vol. 143; p. 902.  
 Welch, D. S., Iowa City, Iowa. Safety spring-bolt. No. 927,824; July 13; Sp. p. 2331; Gaz. vol. 144; p. 402.  
 Welch, E. G., Nankin, Ohio. Lap-joint for roofing or siding sheets or the like. No. 917,213; Apr. 6; Sp. p. 517; Gaz. vol. 141; p. 90.  
 Welch, E. J., and A. Crocker, assignors to Union Screen Plate Company, Fitchburg, Mass. Making screen-plates. No. 919,505; Apr. 27; Sp. p. 5493; Gaz. vol. 141; p. 944.  
 Welch, E. F., Denver, Colo. Testing or reducing ores. No. 919,663; Apr. 27; Sp. p. 5814; Gaz. vol. 141; p. 998.  
 Welch, F. S. (See Welch, A. R. and F. S.)  
 Welch, J. J. (See Greene, L. A., assignor.)  
 Welch, J. P., assignor of one-half to J. J. Snider, Salt Lake City, Utah. Smelter-furnace. No. 937,030; Oct. 12; Sp. p. 2968; Gaz. vol. 147; p. 493.  
 Welch, J. P., assignor of one-half to J. J. Snider, Salt Lake City, Utah. Smelting ore. No. 937,031; Oct. 12; Sp. p. 2970; Gaz. vol. 147; p. 494.  
 Welch, L. E., Meriden, Conn. Waste-trap. No. 933,279; Sept. 7; Sp. p. 571; Gaz. vol. 146; p. 87.  
 Welch, L. W., Grand Rapids, Mich. Display-cabinet. No. 942,022; Nov. 30; Sp. p. 7820; Gaz. vol. 148; p. 1317.  
 Welch, S. F., assignor to Western Wheeled Scraper Company, Aurora, Ill. Portable bin for handling crushed stone, &c. No. 932,598; Aug. 31; Sp. p. 6281; Gaz. vol. 145; p. 1087.  
 Welch, W. B., Jr., Los Angeles, Cal. Washer-retainer. No. 917,388; Apr. 6; Sp. p. 869; Gaz. vol. 141; p. 149.  
 Welch, W. H., assignor to Harvey Frost & Company, Limited, London, England. Vulcanizing apparatus. No. 923,224; June 1; Sp. p. 214; Gaz. vol. 143; p. 35.  
 Welch, W. S., and J. D. Mumford, Westfield, N. J. Wire screen for windows and the like. No. 932,731; Aug. 31; Sp. p. 6572; Gaz. vol. 145; p. 1132.  
 Weld, C. G., North Chatham, Mass. Internal-combustion engine. No. 942,227; Dec. 7; Sp. p. 427; Gaz. vol. 149; p. 66.  
 Weld, G. A., Winchester, Mass. Thermostat. No. 934,116; Sept. 14; Sp. p. 2344; Gaz. vol. 146; p. 384.  
 Weld, M., New York, N. Y. Invalid's foot-rest for beds. No. 931,908; Aug. 24; Sp. p. 4869; Gaz. vol. 145; p. 834.  
 Welde, R. (See Holmoka and Welde.)  
 Welde, R. (See Linde, Welde, Fickler, and Roderwald.)  
 Weldless Steel Tube Co. (See Jackson and Joseph, assignors.)  
 Weldon, F. M., Canton, Tex. Baling-press. No. 921,190; May 11; Sp. p. 2239; Gaz. vol. 142; p. 393.  
 Weldon, H. O., Schenectady, N. Y., assignor to General Electric Company. Combined throttle and trip valve. No. 932,525; Aug. 31; Sp. p. 6118; Gaz. vol. 145; p. 1062.  
 Welds, O. D., assignor of one-half to F. D. Handy, Jackson, Mich. Churn. No. 940,099; Nov. 16; Sp. p. 3672; Gaz. vol. 148; p. 625.  
 Welin, A., London, England, assignor to Welin Quadrant Davit, New York, N. Y. Apparatus for raising and lowering ships' boats. (Re-issue.) No. 12,979; June 22; Sp. p. 6285; Gaz. vol. 143; p. 1083.  
 Welin, A., London, England, assignor to Welin Quadrant Davit, New York, N. Y. Apparatus for raising or lowering ships' boats. (Re-issue.) No. 12,980; June 22; Sp. p. 6286; Gaz. vol. 143; p. 1084.  
 Welin, A., London, England, assignor to Welin Quadrant Davit. Davit for hoisting and lowering boats. No. 938,447; Oct. 26; Sp. p. 5993; Gaz. vol. 147; p. 1015.  
 Welin, A., London, England, assignor to Welin Quadrant Davit. Davit for hoisting and lowering boats. No. 938,448; Oct. 26; Sp. p. 5994; Gaz. vol. 147; p. 1015.  
 Welin, P., assignor, by mesne assignments, to A. Krell, New Castle, Ind. Automatic playing attachment for musical instruments. No. 923,295; July 20; Sp. p. 3344; Gaz. vol. 144; p. 590.  
 Welin, P., assignor to A. Krell, New Castle, Ind. Pneumatic action for musical instruments. No. 928,296; July 20; Sp. p. 3351; Gaz. vol. 144; p. 590.  
 Welin, P., New Castle, assignor, by mesne assignments, to Krell Auto Grand-Piano Co. of America, Connersville, Ind. Paper-winding mechanism for musical instruments. No. 944,006; Dec. 21; Sp. p. 4260; Gaz. vol. 149; p. 733.  
 Welin, P., Worcester, Mass., assignor, by mesne assignments, to Krell Auto-Grand Piano Co. of America, Connersville, Ind. Paper-winding mechanism for musical instruments. No. 943,802; Dec. 21; Sp. p. 3810; Gaz. vol. 149; p. 662.  
 Welin Quadrant Davit. (See Welin, A., assignor.)



*Alphabetical list of patentees—Continued.*

- Welker, E., Cheektowaga, and E. H. Long, Buffalo, N. Y. Jar closure or fastener. No. 927,390; July 6; Sp. p. 1373; Gaz. vol. 144; p. 228.
- Welker, H. S., Akron, Ohio. Ventilator. No. 932,659; Aug. 31; Sp. p. 6420; Gaz. vol. 145; p. 1108.
- Welker, L., Jr., Williamsport, Pa. Table. No. 940,490; Nov. 16; Sp. p. 4545; Gaz. vol. 148; p. 760.
- Weldde, L. G. (See Jesdale and Weldde.)
- Wellensiek, F. W., Syracuse, Nebr. Corn harvesting and husking machine. No. 921,490; May 11; Sp. p. 2867; Gaz. vol. 142; p. 493.
- Weller, A. (See Mezger and Weller.)
- Weller, C., Newark, N. J. Ear-jewel fastening. No. 927,199; July 6; Sp. p. 1034; Gaz. vol. 144; p. 167.
- Weller, C. H., Canton, Pa. Elevator-cupboard. No. 943,498; Dec. 14; Sp. p. 3140; Gaz. vol. 149; p. 529.
- Weller, C. N., Pineville, Ky. Shade-holder. No. 932,927; Aug. 31; Sp. p. 6957; Gaz. vol. 145; p. 1195.
- Welles, F. (See Davis, I. N., assignor.)
- Welles, R. H., assignor to Badger Brass Mfg. Co., Kenosha, Wis. Headlight. No. 913,997; Mar. 2; Sp. p. 720; Gaz. vol. 140; p. 114.
- Welles, R. H., assignor to Badger Brass Mfg. Co., Kenosha, Wis. Headlight. No. 922,826; May 25; Sp. p. 5632; Gaz. vol. 142; p. 986.
- Welles, R. H., assignor to Badger Brass Mfg. Co., Kenosha, Wis. Union-coupling for lamps. No. 926,528; June 29; Sp. p. 7146; Gaz. vol. 143; p. 1262.
- Welling, A. F., New York, N. Y. Attachment for linotype-machines. No. 933,509; Sept. 7; Sp. p. 1136; Gaz. vol. 146; p. 163.
- Welling, D. G., Syracuse, N. Y. Transmission-gear. No. 920,796; May 4; Sp. p. 1425; Gaz. vol. 142; p. 230.
- Welling, J. E., Cynthiana, Ky., assignor to R. M. Webster, Spokane, Wash., and H. C. Norris, Jr., Cynthiana, Ky. Rain-spout filter. No. 943,106; Dec. 14; Sp. p. 2332; Gaz. vol. 149; p. 396.
- Welling, J. F. (See Baldwin, F., assignor.)
- Wellman, C. A., Ottumwa, Iowa. Fruit-carrier. No. 911,634; Feb. 9; Sp. p. 1210; Gaz. vol. 139; p. 229.
- Wellman-Seaver-Morgan Company. (See Douglas, P. H., assignor.)
- Wellman-Seaver-Morgan Company. (See Douglas and Thomas, assignors.)
- Wellner, J., Philadelphia, Pa. Sound-reproducing machine. No. 928,567; July 20; Sp. p. 3875; Gaz. vol. 144; p. 678.
- Wells, A. C., Amityville, N. Y. Starting device for internal-combustion engines. No. 916,073; Mar. 23; Sp. p. 4942; Gaz. vol. 140; p. 876.
- Wells, A. S., *et al.* (See Hallwood, H. S., assignor.)
- Wells, B., Chicago, Ill. Egg-steamer. No. 936,965; Oct. 12; Sp. p. 2831; Gaz. vol. 147; p. 472.
- Wells, B. M., and F. W. Simister, Paterson, N. J. Hammer with shingle-cutting attachment. No. 920,228; May 4; Sp. p. 276; Gaz. vol. 142; p. 44.
- Wells, C. A., Memphis, Tenn. Automatic tray-lifter for trunks and the like. No. 909,837; Jan. 12; Sp. p. 2816; Gaz. vol. 138; p. 496.
- Wells, C. A., Chicago, Ill., assignor to Magnetic Equipment Company. Electromagnetic traction device and emergency-brake. (Reissue.) No. 12,950; Apr. 27; Sp. p. 6761; Gaz. vol. 141; p. 1145.
- Wells, C. B., Scranton, Pa. Tool-holder. No. 943,499; Dec. 14; Sp. p. 3142; Gaz. vol. 149; p. 530.
- Wells, C. P., McKnight, assignor of one-half to R. L. Williams, Hollis, Okla. Scraper. No. 934,777; Sept. 21; Sp. p. 3620; Gaz. vol. 146; p. 631.
- Wells, D. D., Jacksonville, Fla. Skid for aerial navigating devices. No. 935,075; Sept. 28; Sp. p. 4230; Gaz. vol. 146; p. 757.
- Wells, D. W., Oakland, Cal. Lawn-sprinkler. No. 913,791; Mar. 2; Sp. p. 244; Gaz. vol. 140; p. 41.
- Wells, D. W., Oakland, Cal. Automobile curved-road illuminator. No. 927,619; July 13; Sp. p. 1893; Gaz. vol. 144; p. 335.
- Wells, E. H., Montclair, N. J., assignor to Babcock & Wilcox Company, New York, N. Y. Superheater-boiler. No. 938,449; Oct. 26; Sp. p. 5995; Gaz. vol. 147; p. 1016.
- Wells, E. J., Grinnell, Iowa. Hay-rack. No. 938,928; Nov. 2; Sp. p. 1054; Gaz. vol. 148; p. 166.
- Wells, E. S., Ipswich, Queensland, Australia. Butter-cutting machine. No. 925,542; June 22; Sp. p. 5119; Gaz. vol. 143; p. 902.
- Wells, F., Philadelphia, and G. E. Potts, Pottsville, Pa., assignors to Potts Powder Company. Means for detonating dynamite and other explosives. No. 918,907; Apr. 20; Sp. p. 4064; Gaz. vol. 141; p. 713.
- Wells, F. E. and F. W., Greenfield, Mass.; said F. E. Wells assignor to said F. W. Wells. Die-stock. No. 939,648; Nov. 9; Sp. p. 2656; Gaz. vol. 148; p. 439.
- Wells, F. M., Fort Robinson, Nebr. Automatic releasing device. No. 936,202; Oct. 5; Sp. p. 1252; Gaz. vol. 147; p. 190.
- Wells, F. W. (See Wells, F. E. and F. W.)
- Wells, G. W., Southbridge, Mass. Eyeglass-spring. No. 922,227; May 18; Sp. p. 4400; Gaz. vol. 142; p. 763.
- Wells, G. W., Amesbury, Mass., assignor of one-half to D. J. Marston. Friction-gearing. No. 917,691; Apr. 6; Sp. p. 1414; Gaz. vol. 141; p. 249.
- Wells, H., Oakland, Cal. Air-ship. No. 917,695; Apr. 6; Sp. p. 1421; Gaz. vol. 141; p. 250.
- Wells, H., and R. B. Meek, Kahoka, Mo. Skirt-marker. No. 922,740; May 25; Sp. p. 5445; Gaz. vol. 142; p. 958.
- Wells, H. L., New Haven, Conn. Separating copper, nickel, and other metals from copper-nickel matte. No. 940,292; Nov. 16; Sp. p. 4083; Gaz. vol. 148; p. 693.
- Wells, H. L., New Haven, Conn. Recovering hydrochloric acid from nickel-chlorid solution. No. 940,293; Nov. 16; Sp. p. 4087; Gaz. vol. 148; p. 693.
- Wells, H. W., Poughkeepsie, N. Y. Engraving-tool. No. 914,621; Mar. 9; Sp. p. 2030; Gaz. vol. 140; p. 346.
- Wells, J., Forsyth, Mont., assignor to J. D. Wheeler, Salem, Ore. Burglar-alarm. No. 908,918; Jan. 5; Sp. p. 1003; Gaz. vol. 138; p. 161.
- Wells, J. A., Detroit, Mich. Electric insulator. No. 936,840; Oct. 12; Sp. p. 2587; Gaz. vol. 147; p. 431.
- Wells, M. C., Nederland, Colo. Lantern. No. 937,125; Oct. 19; Sp. p. 3159; Gaz. vol. 147; p. 555.
- Wells, R. S., assignor to American Harrow Company, Detroit, Mich. Cultivator. No. 930,109; Aug. 3; Sp. p. 1027; Gaz. vol. 145; p. 165.
- Wells, W. (See Bunch, C., assignor.)
- Wells, W. F., assignor of one-half to R. O. Floyd, Mannington, W. Va. Chair. No. 912,216; Feb. 9; Sp. p. 2412; Gaz. vol. 139; p. 416.
- Welsbach Light Company. (See Russell, J. H., assignor.)
- Welsbach Light Company. (See Simonini, A., assignor.)
- Welsh, C. F., Detroit, Mich. Syringe. No. 918,234; Apr. 13; Sp. p. 2586; Gaz. vol. 141; p. 461.
- Welsh, C. W., Buffalo, Ala. Combined guano-distributor and cotton-seed planter. No. 908,919; Jan. 5; Sp. p. 1004; Gaz. vol. 138; p. 161.
- Welsh, H. J. (See Dillon and Welsh.)
- Welsh, L. E., assignor to American Concrete Piling Company, Philadelphia, Pa. Means for filling holes with concrete. No. 940,100; Nov. 16; Sp. p. 3675; Gaz. vol. 148; p. 626.
- Welter, F. J., assignor to Vereinigte Wunderkerzen-Fabriken Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Spark-emitting candle. No. 910,755; Jan. 26; Sp. p. 4771; Gaz. vol. 138; p. 863.
- Weltinaegeli, W. (See Imhoff, M., assignor.)
- Weltmer, C. E., Nevada, Mo. Printing-frame. No. 917,696; Apr. 6; Sp. p. 1422; Gaz. vol. 141; p. 250.
- Weltner, R. G., and G. R. Allebaugh, McClellandtown, Pa. Burial-vault. No. 916,074; Mar. 23; Sp. p. 4944; Gaz. vol. 140; p. 876.
- Welton, C. (See Culbertson, G. W. R., assignor.)
- Welton, J. A., Canal Dover, Ohio. Drive-gear for motor-vehicles. No. 934,117; Sept. 14; Sp. p. 2347; Gaz. vol. 146; p. 385.
- Welty, C. J., New Springfield, Ohio. Composition fence-post. No. 920,888; May 4; Sp. p. 1625; Gaz. vol. 142; p. 259.
- Welty, R. C., Omaha, Nebr. Signaling apparatus for telephone systems. No. 942,763; Dec. 7; Sp. p. 1508; Gaz. vol. 149; p. 248.
- Welty, R. W., San Francisco, Cal. Tire-armor. No. 925,405; June 15; Sp. p. 4840; Gaz. vol. 143; p. 827.
- Welty, W. A., Waterloo, Iowa. Self-filling fountain-pen. No. 916,513; Mar. 30; Sp. p. 5833; Gaz. vol. 140; p. 1046.
- Weman, K., Buffalo, N. Y. Ringing-key. No. 913,080; Feb. 23; Sp. p. 4242; Gaz. vol. 139; p. 768.
- Weman, K., Buffalo, N. Y. Ringer for telephone systems. No. 917,214; Apr. 6; Sp. p. 518; Gaz. vol. 141; p. 90.
- Weman, K., Buffalo, N. Y. Four-party telephone-line. No. 937,399; Oct. 19; Sp. p. 3758; Gaz. vol. 147; p. 643.
- Weman, K., and T. S. Hemenway, Buffalo, N. Y. Clear-out system for telephone-switchboards. No. 919,409; Apr. 27; Sp. p. 5253; Gaz. vol. 141; p. 910.
- Wernhoff, G. E., Decatur, Ind. Coin-holder for rural mail-boxes. No. 935,076; Sept. 28; Sp. p. 4231; Gaz. vol. 146; p. 757.
- Wempe, C. L., Dillon, Mont. Pitman connection. No. 918,717; Apr. 20; Sp. p. 3663; Gaz. vol. 141; p. 649.
- Wempe, G. W., Boston, assignor of one-half to J. C. L. Sheafe, Brookline, Mass. Apparatus for defabberizing meats. No. 923,742; June 1; Sp. p. 1373; Gaz. vol. 143; p. 214.
- Wenborne, C. A., Chicago, Ill. Kiln. No. 918,621; Apr. 20; Sp. p. 3403; Gaz. vol. 141; p. 615.
- Wendel, P., *et al.* (See Towle, A. W., assignor.)
- Wendel, P., trustee, *et al.* (See Towle, A. W., assignor.)
- Wendell, H. A. (See Wendell, I. A., assignor.)
- Wendell, I. A., assignor of one-half to H. A. Wendell, Philadelphia, Pa. Lathe. No. 917,389; Apr. 6; Sp. p. 870; Gaz. vol. 141; p. 150.
- Wendler, J., Berlin, Germany. Revolving door. No. 921,322; May 11; Sp. p. 2524; Gaz. vol. 142; p. 437.
- Wendt, F. H., assignor of one-third to E. Crotteau, Marshfield, Wis. Knuckle-opener. No. 931,708; Aug. 17; Sp. p. 4406; Gaz. vol. 145; p. 747.
- Wendt, F. H., assignor of one-third to E. Crotteau, Marshfield, Wis. Knuckle-opener for car-couplers. No. 931,709; Aug. 17; Sp. p. 4409; Gaz. vol. 145; p. 748.
- Wendland, W., New York, N. Y. Machine for reeling covered electric wire for vulcanization. No. 918,235; Apr. 13; Sp. p. 2587; Gaz. vol. 141; p. 461.

*Alphabetical list of patentees—Continued.*

- Wenger, M., New Holland, Pa. Nail-extractor. No. 911,098; Feb. 2; Sp. p. 145; Gaz. vol. 139; p. 27.
- Wenner, C. W., *et al.* (See Kleinfeldt, A., assignor.)
- Wenning, E. (See Hartman, G., assignor.)
- Wenning, J. C. A., assignor to Société Alsacienne de Constructions Mécaniques, Mülhausen, Germany. Feeding device of Heilmann combing-machine. No. 938,189; Oct. 26; Sp. p. 5431; Gaz. vol. 147; p. 927.
- Wenstrom, J., Suffern, N. Y. Swivel. No. 925,406; June 15; Sp. p. 4841; Gaz. vol. 143; p. 827.
- Wenstrom, J. L., Suffern, N. Y., assignor to American Gem Mining Syndicate, St. Louis, Mo. Machine for cupping sapphires and other precious stones. No. 942,425; Dec. 7; Sp. p. 816; Gaz. vol. 149; p. 133.
- Wensinger, C. F., Fremont, Ohio. Storm-shield. No. 940,413; Nov. 16; Sp. p. 4388; Gaz. vol. 148; p. 734.
- Wenström, S. F. A., Oskarshamn, Sweden. Apparatus for introducing gases into liquids. No. 913,596; Feb. 23; Sp. p. 5322; Gaz. vol. 139; p. 942.
- Wentworth Company. (See Wentworth, S. J., assignor.)
- Wentworth, H. A., Newton, assignor to Huff Electrostatic Separator Company, Boston, Mass. Roasting separation process. No. 938,732; Nov. 2; Sp. p. 609; Gaz. vol. 148; p. 96.
- Wentworth, M. and W. J. Garbutt, Milwaukee, Wis. Rotary dental apparatus. No. 937,126; Oct. 19; Sp. p. 3160; Gaz. vol. 147; p. 555.
- Wentworth, S. J., Newport, Ky., assignor to Wentworth Company, Cincinnati, Ohio. Cement heating and distributing apparatus. No. 929,178; July 27; Sp. p. 5123; Gaz. vol. 144; p. 910.
- Wentworth, W. V., and A. B. Larchar, Oldtown, Me., assignors to Penobscot Chemical Fibre Company. Apparatus for handling the electrolytic products of brine in the treatment of fiber. No. 912,339; Feb. 16; Sp. p. 2719; Gaz. vol. 139; p. 496.
- Wentworth, W. V., and A. B. Larchar, Oldtown, Me., assignors to Penobscot Chemical Fibre Company. Handling the electrolytic products of brine in the treatment of fiber. No. 912,340; Feb. 16; Sp. p. 2722; Gaz. vol. 139; p. 497.
- Wentz, S. L., Newark, N. J. Bill-fold. No. 932,205; Aug. 24; Sp. p. 5480; Gaz. vol. 145; p. 933.
- Wentzel, A. E., executrix. (See Wentzel, W. E.)
- Wentzel, W. E., deceased; A. E. Wentzel, executrix, Lynn, Mass. Edge-blackening machine. No. 933,009; Aug. 31; Sp. p. 7102; Gaz. vol. 145; p. 1221.
- Wenzel, J. M., Corsica, S. D. Flue-cutter. No. 940,222; Nov. 16; Sp. p. 3937; Gaz. vol. 148; p. 669.
- Wenzel, W., Appleton, Wis. Apparatus for pasteurizing and cooling beer. No. 934,377; Sept. 14; Sp. p. 2837; Gaz. vol. 146; p. 474.
- Wenzell, C., Racine, Wis. Anticrepper for railway-rails. No. 929,061; July 27; Sp. p. 4883; Gaz. vol. 144; p. 871.
- Wenzelman, G., Galesburg, Ill. Seed-corn-drying rack. No. 921,932; May 18; Sp. p. 3786; Gaz. vol. 142; p. 666.
- Werber, H. T., New York, N. Y. Reversing turbine. No. 937,492; Oct. 19; Sp. p. 3973; Gaz. vol. 147; p. 675.
- Werd, W. E., Roundup, Mont. Valve. No. 923,611; June 1; Sp. p. 1123; Gaz. vol. 143; p. 171.
- Werden, C. H. (See Pearson, F., assignor.)
- Werden, E. W., Mount Vernon, N. Y. Cultivator. No. 928,723; July 20; Sp. p. 4192; Gaz. vol. 144; p. 731.
- Werden, H. (See Coe and Werden.)
- Werden, H. T., assignor of one-half to S. L. W. Coe, New York, N. Y. Coin-detector. No. 940,568; Nov. 16; Sp. p. 4721; Gaz. vol. 148; p. 786.
- Wergin, W. L., assignor to Stancliff Well Screen Mfg. Co., Houston, Tex. Notching means for wire-winding machines. No. 942,118; Dec. 7; Sp. p. 193; Gaz. vol. 149; p. 29.
- Werkiser, A. W. (See Ireland and Werkiser.)
- Werkiser, R., Budapest, Austria-Hungary. Controlling device for vehicles. No. 927,014; July 6; Sp. p. 642; Gaz. vol. 144; p. 105.
- Wernstrom, C., St. Paul, Minn. Horseshoe. No. 914,903; Mar. 9; Sp. p. 2615; Gaz. vol. 140; p. 437.
- Werner, E., Philadelphia, Pa. Furniture-leg fastening. No. 920,509; May 4; Sp. p. 843; Gaz. vol. 142; p. 135.
- Werner, E., Philadelphia, Pa., assignor of one-half to C. C. Pearson, Woodbury, N. J. Article of furniture. No. 915,002; Mar. 9; Sp. p. 2768; Gaz. vol. 140; p. 468.
- Werner, E., assignor of one-half to A. S. Garman, Philadelphia, Pa. Garment-marking device. No. 924,516; June 8; Sp. p. 3048; Gaz. vol. 143; p. 499.
- Werner, E. B., Hoopeston, Ill. Pipe-vise and die-carrier. No. 920,797; May 4; Sp. p. 1429; Gaz. vol. 142; p. 231.
- Werner, G. C., Beatrice, Nebr. Cushioning member for pumps. No. 929,263; July 27; Sp. p. 5304; Gaz. vol. 144; p. 938.
- Werner, G. C., Brooklyn, N. Y. Aseptic deflector-lamp. No. 936,499; Oct. 12; Sp. p. 1910; Gaz. vol. 147; p. 315.
- Werner, J., Rochester, N. Y. Cream breaker and melter. No. 915,139; Mar. 16; Sp. p. 3084; Gaz. vol. 140; p. 541.
- Werner, F. R., Philadelphia, Pa. Ignition system for explosion-engines. No. 940,376; Nov. 16; Sp. p. 4295; Gaz. vol. 143; p. 721.
- Werner, S. (See Goldsmith and Werner.)
- Werner, T. O., Bangor, Pa. Automatic skip or bucket dumping device. No. 930,253; Aug. 3; Sp. p. 1288; Gaz. vol. 145; p. 212.
- Werner, T. O., Bangor, Pa. Automatic dumping device for elevated carriers. No. 940,760; Nov. 23; Sp. p. 5141; Gaz. vol. 148; p. 875.
- Wermette, J. J., Grand Rapids, Mich. Pump. No. 913,179; Feb. 23; Sp. p. 4446; Gaz. vol. 139; p. 802.
- Werstad, T., Eau Claire, Wis. Post-box. No. 931,826; Aug. 24; Sp. p. 4662; Gaz. vol. 145; p. 808.
- Wert, C. S., Kendallville, Ind. Post-mold. No. 910,620; Jan. 26; Sp. p. 4502; Gaz. vol. 138; p. 820.
- Wert, C. S., Kendallville, Ind. Brick-mold. No. 910,621; Jan. 26; Sp. p. 4503; Gaz. vol. 138; p. 821.
- Wert, D. S., Pittsburg, Pa. Rail-clamp. No. 942,427; Dec. 7; Sp. p. 819; Gaz. vol. 149; p. 134.
- Wert, H. O., Bloomsburg, Pa. Tie and brace for railway-rails. No. 941,217; Nov. 23; Sp. p. 6129; Gaz. vol. 148; p. 1027.
- Wertheimer, S., Chicago, Ill. Spool-holder. No. 912,341; Feb. 16; Sp. p. 2724; Gaz. vol. 139; p. 497.
- Wertz, C. V., Portsmouth, Ohio, assignor to National Fire Works Distributing Company, Boston, Mass. Toy pistol. No. 926,308; June 29; Sp. p. 6748; Gaz. vol. 143; p. 1189.
- Wertz, C. V., assignor of one-half to W. J. Keys, Portsmouth, Ohio, and one-half to National Fire Works Distributing Company, Boston, Mass. Cane for exploding caps. No. 926,307; June 29; Sp. p. 6744; Gaz. vol. 143; p. 1189.
- Wertz, D., assignor of one-half to J. F. Flowers, Toledo, Ohio. Garment-supporter. No. 926,916; July 6; Sp. p. 444; Gaz. vol. 144; p. 71.
- Wescott, C. R., *et al.* (See Williams, W. S., assignor.)
- Wescott, J. J., Monroe, Wis. Vehicle connection. No. 930,636; Aug. 10; Sp. p. 2091; Gaz. vol. 145; p. 365.
- Wesol Manufacturing Company. (See Gibbon, R. J., assignor.)
- Wesener, R. and W., Cleveland, Wis. Receptacle. No. 918,405; Apr. 13; Sp. p. 2923; Gaz. vol. 141; p. 515.
- Wesener, W. (See Wesener, R. and W.)
- Weser, J. A., New York, N. Y. Mechanical musical instrument. No. 923,225; June 1; Sp. p. 215; Gaz. vol. 143; p. 36.
- Wesle, H. and H., Medford, Wis. Sleigh-knee. No. 933,510; Sept. 7; Sp. p. 1139; Gaz. vol. 146; p. 164.
- Wesley, J. J., Hackensack, N. J., assignor to Metropolitan Switchboard Company. Panel-board. No. 926,372; June 29; Sp. p. 6872; Gaz. vol. 143; p. 1209.
- Wesp, E., assignor to Gilliam Manufacturing Company, Canton, Ohio. Terret-bur holder. No. 910,334; Jan. 19; Sp. p. 3890; Gaz. vol. 138; p. 700.
- Wessel, Z., assignor of one-half to E. Schwarcz, Budapest, Austria-Hungary. Signaling means. No. 930,446; Aug. 10; Sp. p. 1655; Gaz. vol. 145; p. 300.
- Wessell, A. L. (See Wessell, Nickel, and Wessell.)
- Wessell, E. (See Crouse, F. L., assignor.)
- Wessell, F. A., H. A. Nickel, and A. L. Wessell, assignors to Wessell, Nickel & Gross, New York, N. Y. Repeating-action for grand-pianos. No. 939,362; Nov. 9; Sp. p. 2023; Gaz. vol. 148; p. 342.
- Wessell, Nickel & Gross. (See Wessell, Nickel, and Wessell, assignors.)
- Wessels, F., Jr., Düsseldorf, Germany. Glass roof. No. 937,667 Oct. 19; Sp. p. 4300; Gaz. vol. 147; p. 733.
- Wessels, H. G. F., and C. B. Ingraham, Laurel, Iowa. Overshoe-holder. No. 943,582; Dec. 14; Sp. p. 3306; Gaz. vol. 149; p. 557.
- Wessels, H. J., German Valley, Ill. Fence-post, &c. No. 940,996; Nov. 23; Sp. p. 5621; Gaz. vol. 148; p. 952.
- Wessely, Z. von, Prague, Austria-Hungary. Cleansing filter-beds. No. 944,527; Dec. 28; Sp. p. 5388; Gaz. vol. 149; p. 937.
- Wessely, Z. von, Prague, Austria-Hungary. Apparatus for cleaning filter-beds. No. 944,528; Dec. 28; Sp. p. 5389; Gaz. vol. 149; p. 937.
- Wessendorf, J. G., *et al.* (See Gaskill, J. L., assignor.)
- Wessnes, A. (See Tanner, L., assignor.)
- Wesson, I. A., Wingo, Ky. Gate. No. 912,217; Feb. 9; Sp. p. 2413; Gaz. vol. 139; p. 417.
- Wesson, J. H., Springfield, Mass. Vehicle-brake. No. 925,543; June 22; Sp. p. 5120; Gaz. vol. 143; p. 902.
- Wesson, J. H., assignor to Smith & Wesson, Incorporated, Springfield, Mass. Revolver-frame clamp. No. 923,915; June 8; Sp. p. 1814; Gaz. vol. 143; p. 302.
- Wesson, J. H., assignor to Smith & Wesson, Springfield, Mass. Recoil-pad. No. 926,529; June 29; Sp. p. 7148; Gaz. vol. 143; p. 1262.
- West, A., Chicago, Ill. Ventilating system. No. 929,738; Aug. 3; Sp. p. 215; Gaz. vol. 145; p. 37.
- West, A., Chicago, Ill. Sleeping-car berth. No. 938,929; Nov. 2; Sp. p. 1056; Gaz. vol. 148; p. 167.
- West, A. A., Brooklyn, N. Y. Game apparatus. No. 932,206; Aug. 24; Sp. p. 5483; Gaz. vol. 145; p. 934.
- West, A. A., Brooklyn, N. Y., assignor to West Electric Hair Curler Company, Philadelphia, Pa. Hair-curler. No. 944,226; Dec. 21; Sp. p. 4688; Gaz. vol. 149; p. 803.



*Alphabetical list of patentees—Continued.*

- West, A. J., Pittsburg, Pa., assignor to Westinghouse Machine Company. Internal-combustion engine. No. 939,459; Nov. 9; Sp. p. 2250; Gaz. vol. 148; p. 373.
- West, A. J., Pittsburg, Pa., assignor to Westinghouse Machine Company. Piston-rod packing. No. 941,394; Nov. 30; Sp. p. 6515; Gaz. vol. 148; p. 1107.
- West, A. M. (See West, C. N. and A. M.)
- West, A. M., *et al.* (See West, C. N. and A. M., assignors.)
- West, C., Poole, England. Brake for perambulators. No. 924,708; June 15; Sp. p. 3472; Gaz. vol. 143; p. 597.
- West, C. E., Little Rock, Ark. Attachment for locomotives. No. 928,093; July 13; Sp. p. 2870; Gaz. vol. 144; p. 490.
- West, C. F., Philadelphia, Pa. Snelled-fish-hook holder. No. 909,722; Jan. 12; Sp. p. 2606; Gaz. vol. 138; p. 461.
- West, C. N., *et al.* (See West, C. N. and A. M., assignors.)
- West, C. N. and A. M., San Francisco, assignors of one-half to W. E. Deacon, Bakersfield, and one-fourth to said C. N. West and one-fourth to said A. M. West, San Francisco, Cal. Producing impressions on metal plates. No. 916,236; Mar. 23; Sp. p. 5252; Gaz. vol. 140; p. 928.
- West Disinfecting Company. (See Sholes, Z. G., assignor.)
- West, E. E., near Mount Sterling, Ky. Corn-sheller. No. 937,668; Oct. 19; Sp. p. 4301; Gaz. vol. 147; p. 733.
- West Electric Hair Curler Company. (See West, A. A., assignor.)
- West, F., *et al.* (See Lyon, G. L., assignor.)
- West, F. D. (See Wilson, L., assignor.)
- West, F. D., Chicago, Ill. Weighing-scale. No. 931,909; Aug. 24; Sp. p. 4870; Gaz. vol. 145; p. 834.
- West, G. F., Plaistow, London, England. Ball-and-socket flexible joint. No. 927,391; July 6; Sp. p. 1374; Gaz. vol. 144; p. 228.
- West, H. E., Jonesboro, Ark. Post-hole auger. No. 934,029; Sept. 14; Sp. p. 2153; Gaz. vol. 146; p. 356.
- West, H. H., Plymouth, Pa. Comb attachment. No. 928,485; July 20; Sp. p. 3712; Gaz. vol. 144; p. 653.
- West, H. H., Plymouth, Pa. Controller for yarn-changers. No. 930,581; Aug. 10; Sp. p. 1969; Gaz. vol. 145; p. 346.
- West, H. H., assignor of one-half to T. West, Sr., Plymouth, Pa. Attachment for circular-knitting machines. No. 926,629; June 29; Sp. p. 7342; Gaz. vol. 143; p. 1295.
- West, I. S., Difficult, Tenn. Hub-attaching device. No. 938,804; Nov. 2; Sp. p. 763; Gaz. vol. 148; p. 123.
- West, J. (See Ramsey and West.)
- West, J. A., Miertown, Ind. Paint. No. 936,203; Oct. 5; Sp. p. 1255; Gaz. vol. 147; p. 190.
- West, J. F., F. S. Masters, and W. E. Lott, Brookville, Ind. Compound for filling vehicle-tires. No. 909,976; Jan. 19; Sp. p. 3116; Gaz. vol. 138; p. 577.
- West, J. M. (See Enos and West.)
- West, J. T., Bowling Green, Ky. Railway-track-rail holder and brace. No. 939,767; Nov. 9; Sp. p. 2923; Gaz. vol. 148; p. 480.
- West, J. W., Omaha, Neb. Fluid-pressure engine. No. 944,064; Dec. 21; Sp. p. 4365; Gaz. vol. 149; p. 752.
- West, R. H., Oakland, Md. Sack-holder. No. 917,820; Apr. 13; Sp. p. 1724; Gaz. vol. 141; p. 318.
- West, T., Sr. (See West, H. H., assignor.)
- West, T. C., Petal, Miss. Frame for cultivators or harrows. No. 920,408; May 4; Sp. p. 642; Gaz. vol. 142; p. 103.
- West, T. D., Sharpville, Pa. Mold for making chilled car-wheels and other circular objects. No. 918,236; Apr. 13; Sp. p. 2589; Gaz. vol. 141; p. 461.
- West, W. B., Columbia, Mo. Means for starting internal-combustion engines. No. 937,127; Oct. 19; Sp. p. 3162; Gaz. vol. 147; p. 556.
- West, W. C., Pleasant Green, Mo. Templet. No. 930,637; Aug. 10; Sp. p. 2092; Gaz. vol. 145; p. 365.
- West, W. L., Franklin, Pa. Carbon-paper. No. 910,887; Jan. 26; Sp. p. 5020; Gaz. vol. 138; p. 904.
- West, W. T., Camden, N. J. Golf-ball-marking device. No. 943,851; Dec. 21; Sp. p. 3911; Gaz. vol. 149; p. 680.
- Westaway, W. C., assignor to T. Dunn, Jr., Rockford, Ill. Carbureter. No. 909,490; Jan. 12; Sp. p. 2139; Gaz. vol. 138; p. 379.
- Westaway, W. C., Rockford, assignor, by mesne assignments, to J. W. Duntley, Chicago, Ill. Valve. No. 922,986; May 25; Sp. p. 5952; Gaz. vol. 142; p. 1038.
- Westaway, W. C., Rockford, assignor to J. W. Duntley, Chicago, Ill. Carbureter. No. 936,064; Oct. 5; Sp. p. 983; Gaz. vol. 147; p. 148.
- Westbrook, C. G. (See Westbrook, M. A., assignor.)
- Westbrook, E. L. (See Morelock, W. H. H., assignor.)
- Westbrook, M. A., assignor of one-third to C. G. Westbrook, Winnsboro, Tex. Hay-press. No. 935,179; Sept. 28; Sp. p. 4437; Gaz. vol. 146; p. 790.
- Westburg, A. E., Jamestown, N. Y. Gas cut-off. No. 921,191; May 11; Sp. p. 2241; Gaz. vol. 142; p. 394.
- Westburg, A. E., and G. H. Bates, Jamestown, N. Y. Combined scoop and sifter. No. 933,212; Sept. 7; Sp. p. 405; Gaz. vol. 146; p. 63.
- Westby, G. C. (See Sørensen and Westby.)
- Westby, G. C., Murray, Utah. Thionous precipitation. No. 923,916; June 8; Sp. p. 1815; Gaz. vol. 143; p. 303.
- Westcott, C. B. (See Oliver and Westcott.)
- Westcott, C. H. (See Jewell and Westcott.)
- Westcott, D., Salem, N. J. Non-refillable attachment for bottles. No. 924,299; June 8; Sp. p. 2634; Gaz. vol. 143; p. 428.
- Westcott, L. W., Hartford, Mich. Mail-carrying apparatus. No. 924,206; June 8; Sp. p. 2439; Gaz. vol. 143; p. 397.
- Westerbeck, F., St. Louis, Mo. Bail-ear. No. 913,335; Feb. 23; Sp. p. 4773; Gaz. vol. 139; p. 854.
- Westerbeck, F., St. Louis, Mo. Implement for applying and removing can-stoppers. No. 913,336; Feb. 23; Sp. p. 4774; Gaz. vol. 139; p. 854.
- Westerbeck, F., St. Louis, Mo. Sheet-metal can. No. 925,061; June 15; Sp. p. 4206; Gaz. vol. 143; p. 716.
- Westerbeck, F., St. Louis, Mo. Sheet-metal display-box. No. 925,062; June 15; Sp. p. 4206; Gaz. vol. 143; p. 716.
- Westerbeck, F., St. Louis, Mo. Box or can. No. 936,841; Oct. 12; Sp. p. 2588; Gaz. vol. 147; p. 432.
- Westerdahl, A., Carney, Mich. Shears. No. 916,075; Mar. 23; Sp. p. 4945; Gaz. vol. 140; p. 876.
- Westerlund, A. V., New York, N. Y., assignor to Westerlund-Luderer Bottle Company. Non-refillable bottle. No. 919,664; Apr. 27; Sp. p. 5815; Gaz. vol. 141; p. 998.
- Westerlund, A. V., New York, N. Y., assignor to Westerlund-Luderer Bottle Company. Non-refillable bottle. No. 929,356; July 27; Sp. p. 5544; Gaz. vol. 144; p. 971.
- Westerlund-Luderer Bottle Company. (See Westerlund, A. V., assignor.)
- Western Book and Manufacturing Company. (See Schaub and Larsen, assignors.)
- Western Clock Manufacturing Company. (See Neureuther, A. H., assignor.)
- Western Electric Company. (See Albright, H. F., assignor.)
- Western Electric Company. (See Atwood, G. F., assignor.)
- Western Electric Company. (See Bullard, A. M., assignor.)
- Western Electric Company. (See Coursen, W. L., assignor.)
- Western Electric Company. (See Craft, E. B., assignor.)
- Western Electric Company. (See Craft and Harris, assignors.)
- Western Electric Company. (See Crawford, J. G., assignor.)
- Western Electric Company. (See Crouch, H. D., assignor.)
- Western Electric Company. (See Dixon, A. F., assignor.)
- Western Electric Company. (See Fiske, B. A., assignor.) (Reissue.)
- Western Electric Company. (See Hendry, W. F., assignor.)
- Western Electric Company. (See Holland, N. H., assignor.)
- Western Electric Company. (See Larned, S. J., assignor.)
- Western Electric Company. (See Launbranch, M. E., assignor.)
- Western Electric Company. (See Loveridge, F. H., assignor.)
- Western Electric Company. (See Luschka, A. R., assignor.)
- Western Electric Company. (See Lyng, J. J., assignor.)
- Western Electric Company. (See McBerty, F. R., assignor.)
- Western Electric Company. (See McQuarrie, J. L., assignor.)
- Western Electric Company. (See Platter, F. D., assignor.)
- Western Electric Company. (See Pruessman, A., assignor.)
- Western Electric Company. (See Smoot and Hertz, assignors.)
- Western Electric Company. (See Van Dolsen, E. L., assignor.)
- Western Electric Company. (See Warner and Wiler, assignors.)
- Western Electric Company. (See Wiler, C., assignor.)
- Western Union Telegraph Company. (See Field, S. D., assignor.)
- Western Wheeled Scraper Company. (See McKnight, T. R., assignor.)
- Western Wheeled Scraper Company. (See Rhodes, J. B., assignor.)
- Western Wheeled Scraper Company. (See Welch, S. F., assignor.)
- Westervelt, H. V., assignor to Great American Automatic Vending Machine Company, Hoboken, N. J. Vending-machine. No. 916 514; Mar. 30; Sp. p. 5835; Gaz. vol. 140; p. 1047.

*Alphabetical list of patentees—Continued.*

- Westhauser, C. P., New York, N. Y. Adjustable shade-support. No. 930,818; Aug. 10; Sp. p. 2455; Gaz. vol. 145; p. 425.  
 Westhaver, H., *et al.* (See Westhaver, J., assignor.)  
 Westhaver, J., assignor, by mesne assignments, of one-third to E. Wakefield and two-thirds to H. Westhaver, Edgewater, Colo. Bedstead. No. 942,426; Dec. 7; Sp. p. 818; Gaz. vol. 149; p. 134.  
 Westinghouse Air Brake Company. (See Austin, W. M., assignor.)  
 Westinghouse Air Brake Company. (See Cloud, J. W., assignor.)  
 Westinghouse Air Brake Company. (See Farmer, C. C., assignor.)  
 Westinghouse Air Brake Company. (See Hedendahl, T. A., assignor.)  
 Westinghouse Air Brake Company. (See Hinkens, G. F., assignor.)  
 Westinghouse Air Brake Company. (See Key, J. E., assignor.)  
 Westinghouse Air Brake Company. (See McCurdy, O. S., assignor.)  
 Westinghouse Air Brake Company. (See Turner, W. V., assignor.)  
 Westinghouse Air Brake Company. (See Turner and Blackall, assignors.)  
 Westinghouse Air Brake Company. (See Turner and Custer, assignors.)  
 Westinghouse Air Brake Company. (See Turner and Farmer, assignors.)  
 Westinghouse Air Brake Company. (See Turner and Lewis, assignors.)  
 Westinghouse Air Brake Company. (See Westinghouse, H. H., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Aalborg, C., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Abtmeier, T., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Baird, J. A., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Beach, H. L., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Boldman, C. F., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Bradshaw, W. M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Braun, R., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Carson, C., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Clary, F. W., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Conrad, F., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Cooper, W., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Cox, F. W., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Darlington, F., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Davis, H. P., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Davis and MacGahan, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Davis and Varney, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Dearborn, R. J., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Denham, E., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Dick, W. A., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Dusinger, G. B., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Dusinger, S. B. and G. B., assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Eaton, G. M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Elers, K. F., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Feicht, R. S., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Forrer, J. D., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Fortescue, C. Le G., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Garrett, F. W., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Griffith, I. L., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Heimbecker and Orum, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Hellmund, R. E., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Housekeeper, W. G., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Jackson, R. P., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Jackson and Aalborg, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See James, H. D., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See James and Dick, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Kintner, S. M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Kunkel, F. R., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Lamme, B. G., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Lamme, Feicht, and Garcelon, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Lange, P. A., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Lasher, A. C., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Lincoln, P. M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Little, G. M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Lynch and Crane, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Mahoney, J. N., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Mills, C. B., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Mueller, F., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Neall, N. J., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Paris, W. A., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Peck, J. S., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Perkins, T. S., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Psilander, C. A., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Randall, K. C., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Ridings, W. R., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Rose, E. E., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Rowe and Kintner, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Rypinski, M. C., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Sandborgh, O. A., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Schairer, O. S., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Schaumberg, O., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Scheibe, H. M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Shedd, H. M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Shepard, F. H., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Siegfried, R., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Smith, H. B., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Soule, H. C., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Specht, H. C., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Steen and Loguin, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Storer, N. W., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Storer and Varney, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Stuart, H. R., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Summers, H. D., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Tucker, C. A., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Varney, T., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Varney and Storer, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Walker, M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Webster, J. E., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Wilbur, S. P., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Zimmermann, J. H., assignor.)  
 Westinghouse, G. (See Cook, S., assignor.)  
 Westinghouse, G. (See Kando, K. von, assignor.)  
 Westinghouse, G., Pittsburg, Pa. Gearing. No. 922,827; May 25; Sp. p. 5633; Gaz. vol. 142; p. 987.  
 Westinghouse, G., Pittsburg, Pa. Turbine blade and vane. No. 930,907; Aug. 10; Sp. p. 2649; Gaz. vol. 145; p. 454.  
 Westinghouse, G., Pittsburg, Pa. Elastic-fluid turbine. No. 930,908; Aug. 10; Sp. p. 2650; Gaz. vol. 145; p. 464.  
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- Westinghouse, G., Pittsburg, Pa., assignor to Westinghouse Machine Company. Nozzle control for elastic-fluid turbines. No. 930,906; Aug. 10; Sp. p. 2646; Gaz. vol. 145; p. 454.
- Westinghouse, G., Pittsburg, Pa., assignor to Westinghouse Machine Company. Elastic-fluid turbine. No. 935,286; Sept. 28; Sp. p. 4646; Gaz. vol. 146; p. 825.
- Westinghouse, G., Pittsburg, Pa., assignor to Westinghouse Machine Company. Fluid-pressure turbine. No. 935,438; Sept. 28; Sp. p. 4948; Gaz. vol. 146; p. 874.
- Westinghouse, G., Pittsburg, Pa., assignor to Westinghouse Machine Company. Elastic-fluid turbine. No. 935,567; Sept. 28; Sp. p. 5232; Gaz. vol. 146; p. 913.
- Westinghouse, G., Pittsburg, Pa., assignor to Westinghouse Machine Company. Elastic-fluid turbine. No. 935,568; Sept. 28; Sp. p. 5234; Gaz. vol. 146; p. 913.
- Westinghouse, G., Pittsburg, Pa., assignor to Westinghouse Machine Company. Elastic-fluid turbine. No. 935,569; Sept. 28; Sp. p. 5236; Gaz. vol. 146; p. 919.
- Westinghouse, G., Pittsburg, Pa., assignor to Westinghouse Machine Company. Elastic-fluid turbine. No. 941,395; Nov. 30; Sp. p. 6518; Gaz. vol. 148; p. 1107.
- Westinghouse, H. H. (See Dutton, C. S., assignor.)
- Westinghouse, H. H., New York, N. Y., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Relief-valve for compound steam-pumps. No. 917,215; Apr. 6; Sp. p. 521; Gaz. vol. 141; p. 91.
- Westinghouse, H. H., New York, N. Y., assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Relief mechanism for compound pumps. No. 917,216; Apr. 6; Sp. p. 522; Gaz. vol. 141; p. 91.
- Westinghouse Machine Company. (See Barton, H. L., assignor.)
- Westinghouse Machine Company. (See Crist, M. B., assignor.)
- Westinghouse Machine Company. (See Dow, H. H., assignor.)
- Westinghouse Machine Company. (See Ehrhart, R. N., assignor.)
- Westinghouse Machine Company. (See Flanders, L. H., assignor.)
- Westinghouse Machine Company. (See Flint, W. P., assignor.)
- Westinghouse Machine Company. (See Gilson, C., assignor.)
- Westinghouse Machine Company. (See Green, J. S., assignor.)
- Westinghouse Machine Company. (See Hodgkinson, F., assignor.)
- Westinghouse Machine Company. (See Kasley, A. T., assignor.)
- Westinghouse Machine Company. (See Lea, H. I., assignor.)
- Westinghouse Machine Company. (See London, W. J. A., assignor.)
- Westinghouse Machine Company. (See Loud and Panter, assignors.)
- Westinghouse Machine Company. (See MacMurchy, J. A., assignor.)
- Westinghouse Machine Company. (See Moore, J. L., assignor.)
- Westinghouse Machine Company. (See Snyder, J. E., assignor.)
- Westinghouse Machine Company. (See Stringham, J. H., assignor.)
- Westinghouse Machine Company. (See Sweet, C. E., assignor.)
- Westinghouse Machine Company. (See West, A. J., assignor.)
- Westinghouse Machine Company. (See Westinghouse, G., assignor.)
- Westinghouse Storage Battery Company. (See Flanders, L. H., assignor.)
- Westinghouse Storage Battery Company. (See Rodman, H., assignor.)
- Westlake, C. T., assignor to C. H. Howard, St. Louis, Mo. Pilot for locomotives and the like. No. 924,709; June 15; Sp. p. 3473; Gaz. vol. 143; p. 597.
- Westlake, C. T., assignor to C. H. Howard, St. Louis, Mo. Pilot for locomotives and the like. No. 924,949; June 15; Sp. p. 3970; Gaz. vol. 143; p. 679.
- Westlake, C. T., assignor to C. H. Howard, St. Louis, Mo. Coupling draw-bar pocket for locomotive-engines and the like. No. 929,062; July 27; Sp. p. 4886; Gaz. vol. 144; p. 872.
- Westlake, C. T., and A. R. Thomas, assignors to Davis Locomotive Wheel Company, St. Louis, Mo. Draft-gear for locomotive engines and tenders. No. 918,237; Apr. 13; Sp. p. 2605; Gaz. vol. 141; p. 462.
- Westling, L. L., Pittsburg, Pa. Edible-cone shaper. No. 913,597; Feb. 23; Sp. p. 5324; Gaz. vol. 139; p. 942.
- Westman, E., Minneapolis, Minn. Electric igniter for explosive-engines. No. 922,987; May 25; Sp. p. 5953; Gaz. vol. 142; p. 1038.
- Westman, L. A., Cleveland, Ohio. Shaft-coupling. No. 938,531; Nov. 2; Sp. p. 209; Gaz. vol. 148; p. 29.
- Westmeyer, H., Silver Creek township, Merrick county, Nebr. Attachment for wheeled plows. No. 930,447; Aug. 10; Sp. p. 1657; Gaz. vol. 145; p. 300.
- Westmore, H. G., assignor to A. O. Smith Company, Milwaukee, Wis. Upholstering attachment. No. 931,106; Aug. 17; Sp. p. 3117; Gaz. vol. 145; p. 546.
- Westmoreland Automatic Machine Company. (See Magidson, F., assignor.)
- Weston, C. H., La Crosse, Wis. Propeller. No. 917,217; Apr. 6; Sp. p. 524; Gaz. vol. 141; p. 91.
- Weston, E. B., Dayton, Ohio. Display-rack attachment. No. 918,238; Apr. 13; Sp. p. 2607; Gaz. vol. 141; p. 462.
- Weston, E. B., Dayton, Ohio. Knockdown crate. No. 943,500; Dec. 14; Sp. p. 3144; Gaz. vol. 149; p. 530.
- Weston, F. W., New York, assignor to F. Wesel Manufacturing Company, Brooklyn, N. Y. Register-hook. No. 930,582; Aug. 10; Sp. p. 1973; Gaz. vol. 145; p. 347.
- Weston, P. L., Annandale, Sydney, New South Wales, Australia. Bevel-gear-milling machine. No. 935,077; Sept. 28; Sp. p. 4233; Gaz. vol. 146; p. 757.
- Weston, W. S., Chicago, Ill. Railway-tie plate. No. 914,092; Mar. 2; Sp. p. 940; Gaz. vol. 140; p. 148.
- Weston, W. S., Chicago, Ill. Railway-tie plate. No. 914,093; Mar. 2; Sp. p. 943; Gaz. vol. 140; p. 148.
- Weston, W. S., assignor to Buda Foundry & Manufacturing Company, Chicago, Ill. Automatic switch-latch. No. 933,511; Sept. 7; Sp. p. 1139; Gaz. vol. 146; p. 164.
- Westover, H. J. (See Mailloux and Westover.)
- Westra, M., Orange City, Iowa. Car-coupling. No. 925,544; June 22; Sp. p. 5122; Gaz. vol. 143; p. 903.
- Westra, M., Orange City, Iowa. Traction-coupling. No. 942,764; Dec. 7; Sp. p. 1514; Gaz. vol. 149; p. 248.
- Westring, C. A., *et al.* (See Giddings, F. M., assignor.)
- Weström, E., Hamburg, Germany. Electrical-current connection for boats. No. 920,229; May 4; Sp. p. 277; Gaz. vol. 142; p. 45.
- Westwater, W. G., Columbus, Ohio. Stop-cock. No. 908,717; Jan. 5; Sp. p. 614; Gaz. vol. 138; p. 95.
- Westwood, F., Wheeling, W. Va. Scrap-bundler. No. 944,929; Dec. 28; Sp. p. 6243; Gaz. vol. 149; p. 1072.
- Wetherbee, C. P., Bath, Me. Steam-packing for turbines. No. 911,350; Feb. 2; Sp. p. 641; Gaz. vol. 139; p. 109.
- Wetherla, W. W., Chicago, Ill. Automatic heat-regulating incubator. No. 938,190; Oct. 26; Sp. p. 5433; Gaz. vol. 147; p. 927.
- Wetmore, C. P., Chicago, Ill., assignor to Comptograph Company. Actuating mechanism for adding-machines. No. 938,532; Nov. 2; Sp. p. 211; Gaz. vol. 148; p. 30.
- Wetmore, L. (See Burlingame, W. R., assignor.)
- Wetmore, W. H., Greensboro, N. C. Inkstand. No. 909,491; Jan. 12; Sp. p. 2142; Gaz. vol. 138; p. 379.
- Wetter Numbering Machine Company. (See Porter, W. A., assignor.)
- Wettergren, A. G., assignor to Star Patent Table Company, New York, N. Y. Extension-table. No. 927,911; July 13; Sp. p. 2527; Gaz. vol. 144; p. 431.
- Wettstein, H., New York, N. Y. Burglar-alarm. No. 909,492; Jan. 12; Sp. p. 2143; Gaz. vol. 138; p. 380.
- Wettstein, H. A., Hazleton, Pa. Hitching device. No. 926,448; June 29; Sp. p. 7015; Gaz. vol. 143; p. 1236.
- Wetz, C., Dayton, Ohio. Skirt-gage. No. 914,542; Mar. 9; Sp. p. 1875; Gaz. vol. 140; p. 319.
- Wetzel, A., Evansville, Ind. Automatic vehicle-shaft holder. No. 913,247; Feb. 23; Sp. p. 4596; Gaz. vol. 139; p. 824.
- Wetzel, F. G., Prairie du Chien, Wis. Wagon brake or lock. No. 919,985; Apr. 27; Sp. p. 6458; Gaz. vol. 141; p. 1104.
- Wetzel, G. L., Baltimore, Md. Automatic gun-hose. No. 940,101; Nov. 16; Sp. p. 3677; Gaz. vol. 148; p. 626.
- Wetzel, L. C., assignor to Toledo Computing Scale Company, Toledo, Ohio. Computing-scale. No. 938,096; Oct. 26; Sp. p. 5217; Gaz. vol. 147; p. 894.
- Wetzler, J., New York, N. Y. Powder-puff pin. No. 932,526; Aug. 31; Sp. p. 6121; Gaz. vol. 145; p. 1062.
- Wever, W., South Milwaukee, Wis. Mail-bag catcher. No. 940,102; Nov. 16; Sp. p. 3680; Gaz. vol. 148; p. 627.
- Weyant, T. R., New York, N. Y. Automatic weighing-machine. No. 934,420; Sept. 14; Sp. p. 2921; Gaz. vol. 146; p. 489.
- Weyant, T. R., assignor to United States Automatic Weighing Machine Company, New York, N. Y. Packing-machine. No. 932,732; Aug. 31; Sp. p. 6573; Gaz. vol. 145; p. 1132.
- Weyel, R., and H. Jäger, Kuppersteg, Germany, assignors to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Igniting appliance for safety-fuses. No. 932,077; Aug. 24; Sp. p. 5225; Gaz. vol. 145; p. 891.
- Weyer, J. J., assignor to Bolte & Weyer Company, Chicago, Ill. Inverted burner. No. 935,241; Sept. 28; Sp. p. 4560; Gaz. vol. 146; p. 811.
- Weyer, T. G., assignor to R. Deimel, Chicago, Ill. Sofa-bed. No. 925,545; June 22; Sp. p. 5123; Gaz. vol. 143; p. 903.

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 Weyn, G. J., Armour, S. D. Stovepipe-cleaner. No. 934,491; Sept. 21; Sp. p. 3070; Gaz. vol. 146; p. 535.  
 Weyher, C., Paris, France. Construction of hulls for vessels. No. 932,733; Aug. 31; Sp. p. 6576; Gaz. vol. 145; p. 1133.  
 Weyl, M. N., *et al.* (See Haile, L. T., assignor.)  
 Weyrs, F. S., Philadelphia, Pa. Telephone apparatus. No. 915,518; Mar. 16; Sp. p. 3819; Gaz. vol. 140; p. 664.  
 Wexel, J., Leipzig-Stötteritz, Germany. Apparatus for the production of artificial lithographic stones. No. 917,218; Apr. 6; Sp. p. 525; Gaz. vol. 141; p. 92.  
 Whalen Company. (See Whalen, J. T., assignor.)  
 Whalen, J. T., Brooklyn, N. Y. Electrical controlling device. No. 914,094; Mar. 2; Sp. p. 944; Gaz. vol. 140; p. 148.  
 Whalen, J. T., Brooklyn, N. Y. Indicating and recording device. No. 940,761; Nov. 23; Sp. p. 5142; Gaz. vol. 148; p. 875.  
 Whalen, J. T., Brooklyn, N. Y., assignor to Whalen Company, Jersey City, N. J. Permutation-lock. No. 923,743; June 1; Sp. p. 1376; Gaz. vol. 143; p. 215.  
 Whalen, J. T., New York, N. Y., assignor to Whalen Company, Jersey City, N. J. Permutation-padlock. No. 923,744; June 1; Sp. p. 1378; Gaz. vol. 143; p. 215.  
 Whalen, J. T., New York, N. Y., assignor, by mesne assignments, to Whalen Company, Jersey City, N. J. Permutation-padlock. No. 940,762; Nov. 23; Sp. p. 5144; Gaz. vol. 148; p. 875.  
 Whalen, J. T., New York, N. Y., assignor to Whalen Company, Jersey City, N. J. Permutation-padlock. No. 940,763; Nov. 23; Sp. p. 5146; Gaz. vol. 148; p. 876.  
 Whalen, M. H., New York, N. Y. Air-ship. No. 922,228; May 18; Sp. p. 4402; Gaz. vol. 142; p. 763.  
 Whaley, C. L., Augusta, Ga. Clutch mechanism. No. 919,101; Apr. 20; Sp. p. 4426; Gaz. vol. 141; p. 773.  
 Whaley, G. W., Philadelphia, Pa. Shoe tree or form. No. 910,102; Jan. 19; Sp. p. 3363; Gaz. vol. 138; p. 618.  
 Whaley, J. M. (See Wilson, W. A., assignor.)  
 Whaley, J. N., Crowell, Tex., assignor of one-half to J. H. Self. T-square. No. 914,211; Mar. 2; Sp. p. 1183; Gaz. vol. 140; p. 186.  
 Whaley, W., Knoxville, Tenn. Shovel-machine. No. 940,997; Nov. 23; Sp. p. 5622; Gaz. vol. 148; p. 953.  
 Whaley, W., Knoxville, Tenn. Shovel-machine. No. 940,998; Nov. 23; Sp. p. 5632; Gaz. vol. 148; p. 953.  
 Whaley, W., Knoxville, Tenn. Shovel-machine. No. 940,999; Nov. 23; Sp. p. 5635; Gaz. vol. 148; p. 953.  
 Whalley, C., Blackpool, England. Mixing-machine. No. 920,703; May 4; Sp. p. 1257; Gaz. vol. 142; p. 200.  
 Wharton, J. S. L., *et al.* (See Gibson, G. H., assignor.)  
 Whatley, A. H., assignor to United States Floor Surfacing Machine Company, Providence, R. I. Grinding and polishing roll. No. 919,665; Apr. 27; Sp. p. 5816; Gaz. vol. 141; p. 998.  
 Whatley, A. H., assignor to United States Floor Surfacing Machine Company, Providence, R. I. Surfacing-machine. No. 939,363; Nov. 9; Sp. p. 2024; Gaz. vol. 148; p. 842.  
 Whearley, C. O., Fort Wayne, Ind. Gage for paper-ruling machines. No. 935,716; Oct. 5; Sp. p. 197; Gaz. vol. 147; p. 31.  
 Wheary, G. H., Racine, Wis. Clothes-hanger. No. 917,219; Apr. 6; Sp. p. 527; Gaz. vol. 141; p. 92.  
 Wheary, G. H., Racine, Wis. Hat-carrier. No. 939,364; Nov. 9; Sp. p. 2027; Gaz. vol. 148; p. 842.  
 Wheary, G. H., Racine, Wis. Wardrobe-trunk. No. 939,575; Nov. 9; Sp. p. 2489; Gaz. vol. 148; p. 413.  
 Wheary, G. H., assignor to Hartmann Trunk Company, Racine, Wis. Attachment for garment-receptacles. No. 912,442; Feb. 16; Sp. p. 2726; Gaz. vol. 139; p. 497.  
 Wheat, H. M. (See O'Brien and Wheat.)  
 Wheat, J. E., Bridgeport, Conn. Flush hinge. No. 918,802; Apr. 20; Sp. p. 3818; Gaz. vol. 141; p. 676.  
 Wheat, L. A., Battle Creek, Mich. Printing-press. No. 926,795; July 6; Sp. p. 179; Gaz. vol. 144; p. 30.  
 Wheat, L. A., Battle Creek, Mich. Throw-off mechanism for the inking-rolls of rotary printing-presses. No. 942,119; Dec. 7; Sp. p. 196; Gaz. vol. 149; p. 30.  
 Wheatley, T., Syracuse, N. Y. Steam and hot-water boiler. No. 943,761; Dec. 21; Sp. p. 3727; Gaz. vol. 149; p. 648.  
 Wheaton, C. M. (See Doble and Wheaton.)  
 Wheaton, C. M. (See Miller and Wheaton.)  
 Wheelan, F. H., *et al.* (See Jessup, R. W., assignor.)  
 Wheeler, A. (See Lawson and Wheeler.)  
 Wheeler, A. A., M. V. Haskins, and A. H. Wheeler, Worcester, Mass. Door. No. 940,294; Nov. 16; Sp. p. 4087; Gaz. vol. 148; p. 693.  
 Wheeler, A. H. (See Wheeler, Haskins, and Wheeler.)  
 Wheeler, A. H., Worcester, Mass. Blower for peas or the like. No. 921,764; May 18; Sp. p. 3440; Gaz. vol. 142; p. 612.  
 Wheeler, A. H., Worcester, Mass. Playing-cards. No. 931,977; Aug. 24; Sp. p. 5003; Gaz. vol. 145; p. 857.  
 Wheeler, A. S., assignor to F. S. Webster Co., Boston, Mass. Ribbon-attaching device. No. 930,327; Aug. 3; Sp. p. 1417; Gaz. vol. 145; p. 235.  
 Wheeler, B. F., Detroit, Mich. Lavatory. No. 944,586; Dec. 28; Sp. p. 5524; Gaz. vol. 149; p. 958.  
 Wheeler, C. C., Holland, Mich. Edge-trimmer for lawns. No. 918,239; Apr. 13; Sp. p. 2609; Gaz. vol. 141; p. 463.  
 Wheeler, C. M., *et al.* (See Santsche, E., assignor.)  
 Wheeler, C. W. (See Wheeler, E. A. and C. W.)  
 Wheeler, E., Kingfisher, Okla. Metallic rail tie and chair. No. 943,852; Dec. 21; Sp. p. 3911; Gaz. vol. 149; p. 681.  
 Wheeler, E. A. and C. W., McLean, Nebr. Wire-stretcher. No. 936,749; Oct. 12; Sp. p. 2409; Gaz. vol. 147; p. 401.  
 Wheeler, F. (See White and Wheeler.)  
 Wheeler, F., Chicago, Ill. Pointer-baton for music instructors. No. 915,914; Mar. 23; Sp. p. 4642; Gaz. vol. 140; p. 823.  
 Wheeler, F. M. (See Hall, A. F., assignor.)  
 Wheeler, F. T., assignor to Trumbull Electric Manufacturing Company, Plainville, Conn. Flush plate for flush receptacles. No. 943,958; Dec. 21; Sp. p. 4137; Gaz. vol. 149; p. 717.  
 Wheeler, G. A., Wakefield, Mass. Pianissimo device. No. 922,828; May 25; Sp. p. 5635; Gaz. vol. 142; p. 987.  
 Wheeler, G. A., Wakefield, Mass. Piano-action. No. 937,560; Oct. 19; Sp. p. 4110; Gaz. vol. 147; p. 699.  
 Wheeler, G. E., Auburn, N. Y. Neck-yoke. No. 938,295; Oct. 26; Sp. p. 5634; Gaz. vol. 147; p. 963.  
 Wheeler, G. M., Winstboro, Tex. Sweep-brace for plows. No. 933,146; Sept. 7; Sp. p. 220; Gaz. vol. 146; p. 38.  
 Wheeler, H., Hartford, Conn. Signal-lamp. No. 932,207; Aug. 24; Sp. p. 5484; Gaz. vol. 145; p. 934.  
 Wheeler, J. A., Onaway, Mich. Tire-patch. No. 925,969; June 22; Sp. p. 6030; Gaz. vol. 143; p. 1042.  
 Wheeler, J. A., New York, N. Y., assignor to Alignum Asbestos Lumber Company, South River, N. J. Composite tile. No. 921,036; May 11; Sp. p. 1913; Gaz. vol. 142; p. 339.  
 Wheeler, J. D. (See Wells, J., assignor.)  
 Wheeler, J. H., Bellingham, Wash. Cattle-guard for railways. No. 931,537; Aug. 17; Sp. p. 4017; Gaz. vol. 145; p. 692.  
 Wheeler, J. H., assignor to Martin Firearms Company, New Haven, Conn. Magazine cut-off for repeating firearms. No. 940,764; Nov. 23; Sp. p. 5150; Gaz. vol. 148; p. 876.  
 Wheeler, J. N., Geneva, Ill. Clothes-rack. No. 910,250; Jan. 19; Sp. p. 3702; Gaz. vol. 138; p. 671.  
 Wheeler, J. N., Geneva, Ill. Piano-bench. No. 918,240; Apr. 13; Sp. p. 2610; Gaz. vol. 141; p. 463.  
 Wheeler, L. B., Asheville, N. C. Sanitary attachment for drain-boards. No. 921,192; May 11; Sp. p. 2243; Gaz. vol. 142; p. 394.  
 Wheeler, M., Lakeview, Mich. Curtain-bracket. No. 932,078; Aug. 24; Sp. p. 5226; Gaz. vol. 145; p. 891.  
 Wheeler, M. M., Winstboro, Tex. Swingletree. No. 925,735; June 22; Sp. p. 5535; Gaz. vol. 143; p. 965.  
 Wheeler, N. S., Hartford, Conn. Rope-clamp. No. 909,352; Jan. 12; Sp. p. 1867; Gaz. vol. 138; p. 335.  
 Wheeler, O. D., Charlotte, N. C. Water-closet floor-coupling. No. 938,533; Nov. 2; Sp. p. 214; Gaz. vol. 148; p. 30.  
 Wheeler, P. G., Orange, Mass. Test-indicator. No. 937,978; Oct. 26; Sp. p. 4955; Gaz. vol. 147; p. 854.  
 Wheeler, P. H., New York, N. Y. Photographic timing apparatus. No. 912,516; Feb. 16; Sp. p. 3085; Gaz. vol. 139; p. 555.  
 Wheeler, R. O. (See Goldsmith, Rees, and Wheeler.)  
 Wheeler, R. O., and A. H. Hilekman, assignors to Bankers Construction Company, Cincinnati, Ohio. Movable partition or book-support. No. 931,362; Aug. 17; Sp. p. 3684; Gaz. vol. 145; p. 636.  
 Wheeler, R. S., Norristown, Pa. Cotton-picker. No. 922,647; May 25; Sp. p. 5253; Gaz. vol. 142; p. 928.  
 Wheeler, S., Castleton, N. Y. Paper package. No. 912,762; Feb. 16; Sp. p. 3641; Gaz. vol. 139; p. 642.  
 Wheeler, S., Castleton, N. Y. Paper-roll bracket. No. 935,078; Sept. 28; Sp. p. 4240; Gaz. vol. 146; p. 758.  
 Wheeler, S., Albany, N. Y. Package-wiring machine. No. 921,193; May 11; Sp. p. 2245; Gaz. vol. 142; p. 395.  
 Wheeler, S., Jr., Castleton, N. Y. Paper package. No. 910,756; Jan. 26; Sp. p. 4772; Gaz. vol. 138; p. 863.  
 Wheeler, S. D., Chicago, Ill. Air-ship. No. 922,549; May 25; Sp. p. 5047; Gaz. vol. 142; p. 896.  
 Wheeler, S. D., Chicago, Ill. Apparatus for ascertaining the buoyancy of gas-bags or the like. No. 922,648; May 25; Sp. p. 5255; Gaz. vol. 142; p. 929.  
 Wheeler, W., Swissvale, assignor of one-half to F. W. Chattin, Butler, Pa. Pneumatic tool. (Reissue.) No. 12,945; Apr. 20; Sp. p. 5021; Gaz. vol. 141; p. 844.  
 Wheeler, W. H., Prescott, Iowa. Wagon-cleat. No. 937,669; Oct. 19; Sp. p. 4302; Gaz. vol. 147; p. 733.



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- Wheeler, W. W., Meriden, Conn. Rotary engine. No. 935,079; Sept. 28; Sp. p. 4243; Gaz. vol. 146; p. 758.
- Wheeler, W. W., Meriden, Conn. Rotary engine. No. 942,476; Dec. 7; Sp. p. 941; Gaz. vol. 149; p. 152.
- Wheeler, W. W., Cloquet, Minn. Painter's scaffold. No. 944,529; Dec. 28; Sp. p. 5389; Gaz. vol. 149; p. 938.
- Wheelless, L. F., Vilonia, Ark. Harrow. No. 924,517; June 8; Sp. p. 3049; Gaz. vol. 143; p. 499.
- Wheeling Stamping Company. (See Edwards, A. L., assignor.)
- Wheeling Stamping Company. (See Paul and McGinnis, assignors.)
- Wheelock, C. H. (See Trowbridge and Wheelock.)
- Wheelock, G. D., Cleveland, Ohio. Sash-fastener. No. 937,348; Oct. 19; Sp. p. 3643; Gaz. vol. 147; p. 627.
- Wheelwright, C. S., Bristol, R. I. Garbage and rendering apparatus. No. 925,970; June 22; Sp. p. 6031; Gaz. vol. 143; p. 1042.
- Wheelwright, C. S., Bristol, R. I. Extracting grease and oil from garbage. No. 925,971; June 22; Sp. p. 6034; Gaz. vol. 143; p. 1043.
- Wheelwright, C. S., Bristol, assignor to International Continuous Filter Press Company, Providence, R. I. Carrying and pressing apparatus. No. 939,576; Nov. 9; Sp. p. 2490; Gaz. vol. 148; p. 413.
- Wheldon, W. M., Ashland, Mass. Fastening device. No. 929,063; July 27; Sp. p. 4887; Gaz. vol. 144; p. 872.
- Wheldon, W. M., assignor of one-third to G. B. Doane, Boston, and one-third to A. H. Knight, Shrewsbury, Mass. Fastening device. No. 924,710; June 15; Sp. p. 3475; Gaz. vol. 147; p. 280.
- Whelan, T. F., St. Louis, Mo., assignor to Ellis Lacer Company, Haverhill, Mass. Fastening device for shoe-uppers. No. 936,391; Oct. 12; Sp. p. 1651; Gaz. vol. 147; p. 280.
- Whelan, T. J., Hawthorn, near Melbourne, Victoria, Australia. Reversible label and address holder. No. 919,666; Apr. 27; Sp. p. 5819; Gaz. vol. 141; p. 998.
- Whelan, W., St. Joseph, Mo. Gasolene-burner. No. 918,622; Apr. 20; Sp. p. 3407; Gaz. vol. 141; p. 615.
- Wheland, E. L. (See Furgeson and Wheland.)
- Wherry, W. H., assignor to Electric Railway Improvement Company, Cleveland, Ohio. Mold for casting rail-bond terminals. No. 918,108; Apr. 13; Sp. p. 2337; Gaz. vol. 141; p. 418.
- Whipple, C. A., Elk River, and C. A. Johnson, Alexandria, Minn. Evener-bar. No. 926,917; July 6; Sp. p. 445; Gaz. vol. 144; p. 72.
- Whipple, G. W. (See Garrison and Whipple.)
- Whipple, J. D., Omaha, Nebr. Horse-collar. No. 922,988; May 25; Sp. p. 5955; Gaz. vol. 142; p. 1039.
- Whisler, A., Burlington, Kans. Screw-driver. No. 915,003; Mar. 9; Sp. p. 2770; Gaz. vol. 140; p. 468.
- Whisler, I. R., Louisville, Ky. Ice-creeper for horses. No. 936,966; Oct. 12; Sp. p. 2832; Gaz. vol. 147; p. 472.
- Whisner, J., Appleton, Wis. Suction-box. No. 920,100; Apr. 27; Sp. p. 6723; Gaz. vol. 141; p. 1141.
- Whitacre, E. G., Wellsville, Ohio. Driving-gear for automobiles. No. 939,116; Nov. 2; Sp. p. 1412; Gaz. vol. 148; p. 230.
- Whitaker, C. H. (See McGrath, P. H., assignor.)
- Whitaker, D. J., Council Bluffs, Iowa. Advertising device. No. 930,583; Aug. 10; Sp. p. 1974; Gaz. vol. 145; p. 347.
- Whitaker, G., Temple, Tex. Railway-tie. No. 928,827; July 20; Sp. p. 4395; Gaz. vol. 144; p. 766.
- Whitaker, J., Newhaven, Pa. Door for coke ovens or furnaces. No. 912,218; Feb. 9; Sp. p. 2414; Gaz. vol. 139; p. 417.
- Whitaker, J., assignor to North Wales Machine Co., North Wales, Pa. Door-retaining device. No. 921,765; May 18; Sp. p. 3447; Gaz. vol. 142; p. 612.
- Whitaker, L. P., assignor to Pneumatic Tobacco Stemmer Company, Washington, D. C. Feeding device for tobacco-leaves. No. 937,906; Oct. 26; Sp. p. 4807; Gaz. vol. 147; p. 831.
- Whitaker, R., New Brunswick, N. J., assignor to Brunswick Refrigerating Company. Refrigerating apparatus. No. 911,635; Feb. 9; Sp. p. 1212; Gaz. vol. 139; p. 229.
- Whitaker, R., New Brunswick, N. J., assignor to Brunswick Refrigerating Company. Coupling. No. 916,382; Mar. 23; Sp. p. 5506; Gaz. vol. 140; p. 977.
- Whitaker, R., New Brunswick, N. J., assignor to Brunswick Refrigerating Company. Refrigerating-machine. No. 932,599; Aug. 31; Sp. p. 6284; Gaz. vol. 145; p. 1087.
- Whitaker, R., New Brunswick, N. J., assignor to Brunswick Refrigerating Company. Cut-off device for ice-machines. No. 936,065; Oct. 5; Sp. p. 986; Gaz. vol. 147; p. 148.
- Whitaker, R., assignor to Brunswick Refrigerating Company, New Brunswick, N. J. Expansion-coil for refrigerating and ice-making plants. No. 943,725; Dec. 21; Sp. p. 3662; Gaz. vol. 149; p. 636.
- Whitaker Reed Company. (See Geer, C. A., assignor.)
- Whitall, Tatum Company. (See Meinecke, C. W., assignor.)
- Whitcher, C. H., Lakeport, N. H. Thread-controlled stop-motion mechanism. No. 918,803; Apr. 20; Sp. p. 3819; Gaz. vol. 141; p. 676.
- Whitcher, C. H., Franklin, N. H. Thread-controlled stop-motion mechanism. (Reissue.) No. 13,018; Aug. 31; Sp. p. 7189; Gaz. vol. 145; p. 1234.
- Whitcher, F. B., West Springfield, assignor of two-thirds to Maynard Rubber Corporation, Springfield, Mass. Toy. No. 940,223; Nov. 16; Sp. p. 3939; Gaz. vol. 148; p. 669.
- Whitcomb, C. C. (See Randall and Whitcomb.)
- Whitcomb, C. O., and W. Cleaver, Oxford, Mich. Foldable display-rack for caskets. No. 915,641; Mar. 16; Sp. p. 4101; Gaz. vol. 140; p. 708.
- Whitcomb, G. F., Los Angeles, Cal. Washing-machine. No. 935,570; Sept. 28; Sp. p. 5240; Gaz. vol. 146; p. 919.
- Whitcomb, J., assignor to W. H. Wilson, Corunna, and W. S. Lockwood, Lansing, Mich. Electrolyte for primary batteries. No. 918,623; Apr. 20; Sp. p. 3408; Gaz. vol. 141; p. 616.
- Whitcomb, L., Brookline, assignor to National Brake and Clutch Company, Boston, Mass. Friction device. No. 917,220; Apr. 6; Sp. p. 528; Gaz. vol. 141; p. 92.
- Whitcomb, L., Brookline, assignor to National Brake and Clutch Company, Boston, Mass. Pulley. No. 921,766; May 18; Sp. p. 3448; Gaz. vol. 142; p. 613.
- Whitcomb, S., assignor of one-half to J. E. Brelsford, Dayton, Ohio. Match-safe. No. 924,407; June 8; Sp. p. 2843; Gaz. vol. 143; p. 464.
- Whitcomb, W. C., Rochelle, Ill. Motor. No. 908,922; Jan. 5; Sp. p. 1009; Gaz. vol. 138; p. 162.
- Whitcomb, W. C., Chicago, Ill., assignor to George D. Whitcomb Company. Motor-actuated hand-tool. No. 908,920; Jan. 5; Sp. p. 1005; Gaz. vol. 138; p. 161.
- Whitcomb, W. C., Chicago, assignor to Geo. D. Whitcomb Company, Rochelle, Ill. Motor-actuated hand-tool. No. 908,921; Jan. 5; Sp. p. 1007; Gaz. vol. 138; p. 161.
- Whitcomb, W. E. (See Moore and Simmons, assignors.)
- White, A., *et al.* (See Cartin, J., assignor.)
- White, A., Sunderland, England. Contact for electric controllers or switches. No. 913,061; Feb. 23; Sp. p. 4244; Gaz. vol. 139; p. 769.
- White, A., Sheboygan Falls, Wis. Building-block. No. 919,272; Apr. 20; Sp. p. 4946; Gaz. vol. 141; p. 830.
- White, A., Sheboygan Falls, Wis. Structural surface for receiving and holding plaster. No. 921,767; May 18; Sp. p. 3450; Gaz. vol. 142; p. 613.
- White, A. C. (See Biddle, G. C., assignor.)
- White, A. F., Evansville, Ind. Closure for bottles, jars, and the like receptacles. No. 934,252; Sept. 14; Sp. p. 2613; Gaz. vol. 146; p. 432.
- White, B. C., Rochester, assignor, by mesne assignments, to Colona Manufacturing Company, Pittsburg, Pa. Thread-protector. No. 944,643; Dec. 28; Sp. p. 5630; Gaz. vol. 149; p. 977.
- White, B. F., Newark, N. J. Automatic soldering-tool. No. 941,218; Nov. 23; Sp. p. 6130; Gaz. vol. 148; p. 1027.
- White, C. A., Boston, Mass., and E. R. Hunter, Sound Beach, Conn. Metronome. No. 923,094; May 25; Sp. p. 6184; Gaz. vol. 142; p. 1072.
- White, C. E., Philadelphia, Pa. Making water-gas. No. 935,344; Sept. 28; Sp. p. 4776; Gaz. vol. 146; p. 845.
- White, C. F., Denver, Colo. Ditching-machine. No. 917,821; Apr. 13; Sp. p. 1725; Gaz. vol. 141; p. 318.
- White, C. H., Webster, Mass. Shade-hanger. No. 926,630; June 29; Sp. p. 7344; Gaz. vol. 143; p. 1296.
- White, C. J., New Britain, Conn. Garment-supporter. No. 912,517; Feb. 16; Sp. p. 3087; Gaz. vol. 139; p. 556.
- White, C. J., New Britain, Conn. Hose-supporter. No. 913,998; Mar. 2; Sp. p. 722; Gaz. vol. 140; p. 114.
- White, C. L. (See Foss and White.)
- White, C. P., Greensboro, N. C. Track-sanding device. No. 920,230; May 4; Sp. p. 279; Gaz. vol. 142; p. 45.
- White, C. P., Greensboro, N. C. Track-sanding apparatus. No. 930,008; Aug. 3; Sp. p. 819; Gaz. vol. 145; p. 131.
- White, C. P., Greensboro, N. C. Cylinder relief-valve. No. 933,147; Sept. 7; Sp. p. 222; Gaz. vol. 146; p. 38.
- White, C. R., assignor of one-half to D. L. Sellers, Hayden, Colo. Windmill. No. 925,063; June 15; Sp. p. 4208; Gaz. vol. 143; p. 717.
- White, C. W., Waco, Tex. Mattress-making machine. No. 917,221; Apr. 6; Sp. p. 529; Gaz. vol. 141; p. 92.
- White Company. (See Rust, J. H., assignor.)
- White Company. (See White, R. H., assignor.)
- White Company. (See Wilson, J. P. L., assignor.)
- White, E., New York, N. Y. Metal reinforce for concrete structures. No. 917,822; Apr. 13; Sp. p. 1730; Gaz. vol. 141; p. 318.
- White, E., Boone, Iowa. Fly attachment for screens. No. 942,120; Dec. 7; Sp. p. 197; Gaz. vol. 149; p. 30.
- White, E. A., Oconomowoc, Wis. Shocker attachment for grain harvesters and binders. No. 944,160; Dec. 21; Sp. p. 4569; Gaz. vol. 149; p. 784.
- White, E. F. (See Bliss and White.)

*Alphabetical list of patentees—Continued.*

- White, E. F., Spokane, Wash. Electric generator. No. 930,819; Aug. 10; Sp. p. 2456; Gaz. vol. 145; p. 425.
- White, E. L., New York, assignor to J. H. White Manufacturing Co., Brooklyn, N. Y. Gas-burner. No. 922,989; May 25; Sp. p. 5958; Gaz. vol. 142; p. 1030.
- White, E. N., Holquin, Cuba. Method and means of making panoramic photographs. No. 928,724; July 20; Sp. p. 4193; Gaz. vol. 144; p. 731.
- White, F. C., assignor to Wilcox & White Company, Meriden, Conn. Tracker-board. No. 939,178; Nov. 2; Sp. p. 1559; Gaz. vol. 148; p. 253.
- White, F. C., assignor to Wilcox & White Company, Meriden, Conn. Pedal-folding apparatus. No. 942,359; Dec. 7; Sp. p. 691; Gaz. vol. 149; p. 112.
- White, F. G., assignor of one-half to H. D. Lewis, Chicago, Ill. Match-safe. No. 908,923; Jan. 5; Sp. p. 1011; Gaz. vol. 138; p. 162.
- White, F. J., Brooklyn, N. Y., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 915,915; Mar. 23; Sp. p. 4644; Gaz. vol. 140; p. 824.
- White, F. L., Cambridge, Mass. Automatic antiscalding and mixing valve. No. 941,596; Nov. 30; Sp. p. 6924; Gaz. vol. 148; p. 1172.
- White, F. L., and H. P. Jarvis, Little Rock, Ark. Churning apparatus. No. 908,924; Jan. 5; Sp. p. 1013; Gaz. vol. 138; p. 163.
- White, G., Ashtabula, Ohio. Boat. No. 919,102; Apr. 20; Sp. p. 4427; Gaz. vol. 141; p. 773.
- White, G. H., Oil City, assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Blank for the manufacture of middle rings for pipe-couplings, &c. No. 922,990; May 25; Sp. p. 5960; Gaz. vol. 142; p. 1039.
- White, G. H., Oil City, assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Making metal rings for pipe-couplings. No. 940,414; Nov. 16; Sp. p. 4390; Gaz. vol. 148; p. 734.
- White, G. P., Wallace, Idaho. Wall construction. No. 926,224; June 29; Sp. p. 6590; Gaz. vol. 143; p. 1164.
- White, G. W., Steubenville, Ohio. Combined window shade and curtain bracket. No. 909,353; Jan. 12; Sp. p. 1868; Gaz. vol. 138; p. 335.
- White, H., Marion, Ohio. Valve structure. No. 915,321; Mar. 16; Sp. p. 3442; Gaz. vol. 140; p. 600.
- White, H. B., and P. E. Medford, Washington, D. C. Lathe head-stock. No. 938,030; Oct. 26; Sp. p. 5068; Gaz. vol. 147; p. 872.
- White, H. E., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 917,222; Apr. 6; Sp. p. 532; Gaz. vol. 141; p. 93.
- White, H. E., Schenectady, N. Y., assignor to General Electric Company. System of motor control. No. 921,768; May 18; Sp. p. 3452; Gaz. vol. 142; p. 614.
- White, H. E., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 941,397; Nov. 30; Sp. p. 6521; Gaz. vol. 148; p. 1108.
- White, H. E., assignor to General Fireproofing Company, Youngstown, Ohio. Reinforcing-truss for concrete structures. No. 919,273; Apr. 20; Sp. p. 4949; Gaz. vol. 141; p. 830.
- White, H. E., assignor to General Fireproofing Company, Youngstown, Ohio. Attachment for diamond lath-machines. No. 919,274; Apr. 20; Sp. p. 4951; Gaz. vol. 141; p. 830.
- White, H. E., Youngstown, Ohio, assignor to General Fireproofing Company, New York, N. Y. Concrete-reinforce. No. 934,378; Sept. 14; Sp. p. 2842; Gaz. vol. 146; p. 474.
- White, H. H., Brookline, Mass. Wind-shield for automobiles. No. 909,266; Jan. 12; Sp. p. 1701; Gaz. vol. 138; p. 307.
- White, H. J., Andrew county, Mo. Truck. No. 908,633; Jan. 5; Sp. p. 424; Gaz. vol. 138; p. 68.
- White, H. R., Philadelphia, Pa. Tobacco-pipe. No. 927,015; July 6; Sp. p. 645; Gaz. vol. 144; p. 105.
- White, H. R., Lowell, Mass., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 940,765; Nov. 23; Sp. p. 5153; Gaz. vol. 148; p. 876.
- White, H. Z., Buffalo, N. Y. Carbureter for internal-combustion engines. No. 920,231; May 4; Sp. p. 281; Gaz. vol. 142; p. 45.
- White, J., Boundbrook, assignor to Hall Printing Press Company, Dunellen, N. J. Clamp for flexible printing-plates. No. 935,439; Sept. 28; Sp. p. 4950; Gaz. vol. 146; p. 874.
- White, J. A., Oxford, Ohio. Mop-wringer. No. 923,391; June 1; Sp. p. 648; Gaz. vol. 143; p. 93.
- White, J. A., assignor to Moore and White Company, Philadelphia, Pa. Paper-making machine. No. 941,968; Nov. 30; Sp. p. 7725; Gaz. vol. 148; p. 1301.
- White, J. B., and F. Wheeler, Appleton, Wis. Machine for feeding can-tops. No. 934,586; Sept. 21; Sp. p. 3245; Gaz. vol. 146; p. 565.
- White, J. D., Philadelphia, Pa. Extinguisher. No. 921,323; May 11; Sp. p. 2525; Gaz. vol. 142; p. 438.
- White, J. D., London, England. Compound boat. No. 942,687; Dec. 7; Sp. p. 1354; Gaz. vol. 149; p. 222.
- White, J. F. (See Cooper, White, and Cooper.)
- White, J. F. (See Gilmore, C. B., assignor.)
- White, J. H., assignor of one-half to L. J. Galarneault, Foley, Minn. Track-laying machine. No. 931,166; Aug. 17; Sp. p. 3256; Gaz. vol. 145; p. 568.
- White, J. L., Coaldale, Ark. Peanut-stripper. No. 912,343; Feb. 16; Sp. p. 2727; Gaz. vol. 139; p. 497.
- White, J. L., and J. B. Polo, Clear Lake, S. D. Starting device for gasoline-engines. No. 921,769; May 18; Sp. p. 3457; Gaz. vol. 142; p. 614.
- White, J. M., Selma, Oreg. Pan-rifle. No. 923,392; June 1; Sp. p. 649; Gaz. vol. 143; p. 94.
- White, J. M., and W. C. Sanders, Maben, Miss. Grate attachment. No. 937,349; Oct. 19; Sp. p. 3645; Gaz. vol. 147; p. 627.
- White, J. N., *et al.* (See Shephard, G., assignor.)
- White, J. P., Trenton, assignor of two-thirds to J. M. Schwerin, Newark, N. J. Sewing-machine. No. 913,598; Feb. 23; Sp. p. 5325; Gaz. vol. 139; p. 943.
- White, J. R., Scroggins, Tex. Vehicle-coupling. No. 935,134; Sept. 28; Sp. p. 4356; Gaz. vol. 146; p. 777.
- White, J. W. (See Wagner, P. F., assignor.)
- White, K., and J. (See Thomson, W., assignor.)
- White, L., Chicago, Ill. Reinforced concrete structure. No. 912,219; Feb. 9; Sp. p. 2415; Gaz. vol. 139; p. 417.
- White, L. S., Waterbury, Conn. Oven-thermometer. No. 941,667; Nov. 30; Sp. p. 7080; Gaz. vol. 148; p. 1196.
- White, M., Wheatley, Ontario, Canada. Rotary engine. No. 917,390; Apr. 6; Sp. p. 872; Gaz. vol. 141; p. 150.
- White, M. C., Kenilworth, Ill. Strainer. No. 942,121; Dec. 7; Sp. p. 200; Gaz. vol. 149; p. 31.
- White, M. C., and O. C. Duryea, Los Angeles, Cal., assignors to American Gas Tool Company, Phoenix, Ariz. Ter. Power appliance. No. 911,187; Feb. 2; Sp. p. 319; Gaz. vol. 139; p. 56.
- White, M. C., and O. C. Duryea, Los Angeles, Cal., assignors to American Gas Tool Company, Phoenix, Ariz. Ter. Power appliance. (Reissue.) No. 12,957; May 18; Sp. p. 4825; Gaz. vol. 142; p. 835.
- White, M. R., Deal Island, Md. Propeller. No. 938,733; Nov. 2; Sp. p. 611; Gaz. vol. 148; p. 96.
- White, N. (See Vincent and White.)
- White, N., Detroit, Mich., assignor to Adder Machine Company, Kingston, Pa. Lock for numeral-wheels for adding-machines. No. 940,766; Nov. 23; Sp. p. 5158; Gaz. vol. 148; p. 877.
- White, O. (See Lanphier and White.)
- White, O., assignor to Sangamo Electric Company, Springfield, Ill. Resetting mechanism for recording-trains. No. 936,591; Oct. 12; Sp. p. 2087; Gaz. vol. 147; p. 347.
- White, O. T., *et al.* (See Foley, J., assignor.)
- White, R., and T. Cornick, St. John's, Newfoundland, assignors to A. J. Dove, Halifax, Nova Scotia, Canada. Occulting light. No. 938,031; Oct. 26; Sp. p. 5070; Gaz. vol. 147; p. 872.
- White, R. H., assignor, by mesne assignments, to White Company, Cleveland, Ohio. Driving mechanism for railway-cars. No. 921,491; May 11; Sp. p. 2870; Gaz. vol. 142; p. 494.
- White, R. J., Wilkinsburg, Pa. Apparatus for the control of railway-trains. No. 932,928; Aug. 31; Sp. p. 6958; Gaz. vol. 145; p. 1195.
- White, S. P. A. (See Meek, A. S., assignor.)
- White, T., Portland, Oreg. Clutch. No. 943,208; Dec. 14; Sp. p. 2528; Gaz. vol. 149; p. 428.
- White, T., Portland, Oreg. Shaft or pulley coupling. No. 943,209; Dec. 14; Sp. p. 2530; Gaz. vol. 149; p. 429.
- White, T. H. (See Lamb and White.)
- White, W. (See Kirkland and White.)
- White, W. (See Otis and White.) (Reissue.)
- White, W., Chicago, Ill. System of washing and filling locomotive-boilers. No. 933,937; Sept. 14; Sp. p. 1981; Gaz. vol. 146; p. 327.
- White, W., Lawrence, Mass. Wet-machine. No. 939,460; Nov. 9; Sp. p. 2251; Gaz. vol. 148; p. 374.
- White, W. C., Columbus, Ohio. Water-motor. No. 917,917; Apr. 13; Sp. p. 1934; Gaz. vol. 141; p. 350.
- White, W. C., De Smet, S. D. Compensating draft appliance. No. 944,755; Dec. 28; Sp. p. 5887; Gaz. vol. 149; p. 1014.
- White, W. E., and L. K. Hof, Los Angeles, Cal. Water-glass. No. 922,829; May 25; Sp. p. 5636; Gaz. vol. 142; p. 987.
- White, W. G., Washington, D. C., assignor to Linotype and Machinery Limited, London, England. Justifying type-writer. No. 943,502; Dec. 14; Sp. p. 3148; Gaz. vol. 149; p. 531.
- White, W. G., Washington, D. C., assignor to Linotype and Machinery Limited, London, England. Mechanical-controller composing-machine. No. 943,611; Dec. 14; Sp. p. 3366; Gaz. vol. 149; p. 568.
- White, W. G., Washington, D. C., assignor to Linotype and Machinery Limited, London, England. Type casting and composing machine. No. 943,612; Dec. 14; Sp. p. 3384; Gaz. vol. 149; p. 568.
- White, W. J., Oyster Bay, N. Y. Tide-motor. No. 917,523; Apr. 13; Sp. p. 1731; Gaz. vol. 141; p. 319.
- White, W. J., Oyster Bay, N. Y. Water-motor. No. 924,300; June 8; Sp. p. 2635; Gaz. vol. 143; p. 429.



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- White, W. J., Oyster Bay, N. Y. Water-motor. No. 943,501; Dec. 14; Sp. p. 3145; Gaz. vol. 149; p. 530.
- White, W. L., Cynwyd, assignor to S. S. White Dental Mfg. Co., Philadelphia, Pa. Lathe-chuck release. No. 931,167; Aug. 17; Sp. p. 3262; Gaz. vol. 145; p. 568.
- White, W. L., and F. W. Chickering, Hardwick, Vt.; said Chickering assignor to said White. Roll-carpet fastener. No. 923,468; June 1; Sp. p. 798; Gaz. vol. 143; p. 119.
- White, W. O., Republic, Pa. Damper. No. 921,194; May 11; Sp. p. 2247; Gaz. vol. 142; p. 395.
- White, W. O., Republic, Pa. Door for coke-ovens. No. 941,398; Nov. 30; Sp. p. 6524; Gaz. vol. 148; p. 1108.
- White, W. W. (See Giles, H. C., assignor.)
- Whitehair, B. W., *et al.* (See Fox and Reeves, assignors.)
- Whitehall, S., *et al.* (See Flora, C. P., assignor.)
- Whitehall, S., South Bend, Ind. Joint for cleats. No. 935,871; Oct. 5; Sp. p. 590; Gaz. vol. 147; p. 84.
- Whitehall, S., South Bend, Ind. Box-fastener. No. 935,872; Oct. 5; Sp. p. 592; Gaz. vol. 147; p. 84.
- Whitehead & Company. (See Jones, A. E., assignor.)
- Whitehead, E. F., assignor to M. Whitehead, Newark, Ohio. Folding trestle. No. 943,328; Dec. 14; Sp. p. 2783; Gaz. vol. 149; p. 469.
- Whitehead, G. L., *et al.* (See Grove, J. R., assignor.)
- Whitehead, H. H., assignor of one-half to R. H. Whitehead, Palmetto, Fla. Internal-combustion engine. No. 919,103; Apr. 20; Sp. p. 4428; Gaz. vol. 141; p. 774.
- Whitehead, J. H. (See Layland and Whitehead.)
- Whitehead, M. (See Whitehead, E. F., assignor.)
- Whitehead, P. B., Stockport, England. Mule and twiner for spinning yarn. No. 921,770; May 18; Sp. p. 3458; Gaz. vol. 142; p. 615.
- Whitehead, P. B., Stockport, England. Twisting and doubling frame. No. 924,950; June 15; Sp. p. 3972; Gaz. vol. 143; p. 679.
- Whitehead, R. H. (See Whitehead, H. H., assignor.)
- Whitehead, S. R., Overton, Nev. Milk-strainer. No. 915,519; Mar. 16; Sp. p. 3820; Gaz. vol. 140; p. 665.
- Whitehill, D. B., North Clarendon, Pa. Means for cooling the cylinders of explosive-engines. No. 913,599; Feb. 23; Sp. p. 5326; Gaz. vol. 139; p. 943.
- Whitehorn, M. O., Worthing, England. Hoe. No. 917,980; Apr. 13; Sp. p. 2065; Gaz. vol. 141; p. 373.
- Whitehouse, J. N., assignor to Dusto-Mfg. Co., New York, N. Y. Vacuum-cleaner. No. 943,583; Dec. 14; Sp. p. 3306; Gaz. vol. 149; p. 557.
- Whitehouse, N. L. G., Lewisham, London, England. Making ammonia and chlorine or hydrochloric acid. No. 925,253; June 15; Sp. p. 4567; Gaz. vol. 143; p. 781.
- Whitelaw, A. E., Clifton Hill, Victoria, Australia. Upper for boots or shoes. No. 937,493; Oct. 19; Sp. p. 3975; Gaz. vol. 147; p. 675.
- Whitely Exerciser Company. (See Simmons, C. B., assignor.)
- Whiteman, G. W., Philadelphia, Pa. Anticreeping device for rails. No. 914,095; Mar. 2; Sp. p. 946; Gaz. vol. 140; p. 148.
- Whiteman, G. W., Philadelphia, Pa. Anticreeping device for spring-frogs. No. 930,708; Aug. 10; Sp. p. 2231; Gaz. vol. 145; p. 388.
- Whiteman, G. W., Philadelphia, Pa. Cushioning device for loose rails of spring-frogs. No. 930,709; Aug. 10; Sp. p. 2233; Gaz. vol. 145; p. 388.
- Whiteman, G. W., Philadelphia, assignor to C. J. Buck, Gallitzin, Pa. Insulated rail-joint. No. 941,175; Nov. 23; Sp. p. 6027; Gaz. vol. 148; p. 1013.
- Whiteman, G. W., Philadelphia, and C. W. Reinohl, Steelton, Pa. Insulated switch-bar for railways. No. 932,208; Aug. 24; Sp. p. 5485; Gaz. vol. 145; p. 934.
- Whiteman, G. W., Philadelphia, and H. R. Leonard, Wayne, Pa. Tie-plate. No. 916,904; Mar. 30; Sp. p. 6549; Gaz. vol. 140; p. 1169.
- Whitesell, F. N., assignor to Sheffield Car Company, Three Rivers, Mich. Valve. No. 942,122; Dec. 7; Sp. p. 202; Gaz. vol. 149; p. 31.
- Whitesell, W. H. (See Hoffer, Whitesell, and Bente.)
- Whiteside, D. I. (See Larkin, D. F., assignor.)
- Whiteside, D. I., San Francisco, Cal. Rotatable sign. No. 939,768; Nov. 9; Sp. p. 2924; Gaz. vol. 148; p. 480.
- Whiteside, J., New York, N. Y. Apparatus for teaching gun practice. No. 936,066; Oct. 5; Sp. p. 988; Gaz. vol. 147; p. 149.
- Whiteway, A., Sale, and C. Hubbard, Heaton Moor, England. Fluid-pressure heat-engine. No. 923,226; June 1; Sp. p. 220; Gaz. vol. 143; p. 36.
- Whitin Machine Works. (See Aldrich, W. O., assignor.)
- Whitin Machine Works. (See Owen, O. L., assignor.)
- Whitin Machine Works. (See Owen and Pratt, assignors.)
- Whitin Machine Works. (See Rooney, E. H., assignor.)
- Whitin Machine Works. (See Rooney, E. H., assignor.) (Reissue.)
- Whiting, A. C. (See Fernald and Whiting.)
- Whiting Company. (See Whiting, J., assignor.)
- Whiting Company. (See Whiting and Burgess, assignors.)
- Whiting Foundry Equipment Company. (See Hyslop, J., assignor.)
- Whiting Foundry Equipment Company. (See Lewis and Mansfield, assignors.)
- Whiting, H., New York, N. Y. Pleasure-railway. No. 938,404; Oct. 26; Sp. p. 5899; Gaz. vol. 147; p. 1001.
- Whiting, J., Jr., trustee. (See Maxwell, B. C., assignor.)
- Whiting, J., assignor to Whiting Company, Boston, Mass. Circulating device for mercury. No. 938,191; Oct. 26; Sp. p. 5435; Gaz. vol. 147; p. 928.
- Whiting, J., Boston, Mass., and C. F. Burgess, Madison, Wis., assignors to Whiting Company, Boston, Mass. Oxidizing metals dissolved in mercury. No. 937,128; Oct. 19; Sp. p. 3164; Gaz. vol. 147; p. 556.
- Whiting, M. V., Elbert, Colo. Non-refillable bottle. No. 908,718; Jan. 5; Sp. p. 615; Gaz. vol. 138; p. 95.
- Whiting, N. C., Glouster, Ohio. Vehicle. No. 914,212; Mar. 2; Sp. p. 1184; Gaz. vol. 140; p. 186.
- Whiting, W. J., Handsworth, near Birmingham, England. Automatic small-arm. No. 936,967; Oct. 12; Sp. p. 2833; Gaz. vol. 147; p. 472.
- Whiting, W. J., Handsworth, near Birmingham, England. Automatic firearm. No. 939,882; Nov. 9; Sp. p. 3145; Gaz. vol. 148; p. 519.
- Whiting, W. J., Handsworth, near Birmingham, England. Automatic pistol and rifle. No. 944,930; Dec. 28; Sp. p. 6246; Gaz. vol. 149; p. 1073.
- Whiting, W. J., Handsworth, assignor to Webley and Scott Limited, Birmingham, England. Automatic pistol. No. 918,406; Apr. 13; Sp. p. 2924; Gaz. vol. 141; p. 516.
- Whitlatch, M., assignor of one-half to C. E. Van Vleck, Montclair, N. J. Machine for treatment of pelts. No. 909,977; Jan. 19; Sp. p. 3117; Gaz. vol. 138; p. 577.
- Whitley, R., Philadelphia, Pa. Warping-machine. No. 910,979; Jan. 26; Sp. p. 5182; Gaz. vol. 138; p. 954.
- Whitlock, A. W., Lake Arthur, N. Mex. Water-elevator. No. 936,204; Oct. 5; Sp. p. 1256; Gaz. vol. 147; p. 190.
- Whitlock Coil Pipe Company. (See Brinkman, L. H., assignor.)
- Whitlock Coil Pipe Company. (See Gordon, C., assignor.)
- Whitlock, M. J., Ansonia, Conn. Hollow roll. No. 921,771; May 18; Sp. p. 3460; Gaz. vol. 142; p. 615.
- Whitlock, R. G., Los Angeles, Cal. Folding umbrella. No. 911,636; Feb. 9; Sp. p. 1215; Gaz. vol. 139; p. 230.
- Whitlock, W. A., Ukiah, Cal. Surgical instrument. No. 928,011; July 13; Sp. p. 2716; Gaz. vol. 144; p. 463.
- Whitman & Barnes Manufacturing Company. (See Polley, F. S., assignor.)
- Whitman & Barnes Mfg. Co. (See Motherwell, D. M., assignor.)
- Whitman, C. B., Watervliet, N. Y. Door. No. 933,512; Sept. 7; Sp. p. 1442; Gaz. vol. 146; p. 164.
- Whitman, F. M., Tucson, Ariz. Ter. Rotary engine. No. 909,493; Jan. 12; Sp. p. 2144; Gaz. vol. 138; p. 380.
- Whitman, O. H., Denver, Colo. Broken-shell extractor. No. 929,526; July 27; Sp. p. 5830; Gaz. vol. 144; p. 1024.
- Whitman, W., Philadelphia, Pa. Automatic warning-signal and stopping device for the safe movement of public conveyances. No. 942,388; Dec. 7; Sp. p. 740; Gaz. vol. 149; p. 121.
- Whitman, W. W., *et al.* (See Hachmann, F., assignor.)
- Whitmer, R. F. (See Rung, H. H., assignor.)
- Whitmore, A. O., Salt Lake City, Utah. Electric smoothing-iron. No. 930,638; Aug. 10; Sp. p. 2093; Gaz. vol. 145; p. 365.
- Whitmore, C. P., Salt Lake City, Utah. Feed-distributor for vanners. No. 914,096; Mar. 2; Sp. p. 949; Gaz. vol. 140; p. 149.
- Whitmore, E. W., Worcester, Mass. Miter-box. No. 914,543; Mar. 9; Sp. p. 1876; Gaz. vol. 140; p. 320.
- Whitmore, E. W., Lynn, Mass. Hose-coupling. No. 916,076; Mar. 23; Sp. p. 4946; Gaz. vol. 140; p. 876.
- Whitmore, F. A., Philadelphia, Pa., assignor to Crompton & Knowles Loom Works. Molding-machine. No. 914,770; Mar. 9; Sp. p. 2353; Gaz. vol. 140; p. 395.
- Whitmore, F. A., Philadelphia, Pa., assignor to Crompton & Knowles Loom Works. Loom for weaving tufted or chenille fabrics. No. 916,077; Mar. 23; Sp. p. 4947; Gaz. vol. 140; p. 877.
- Whitmore, F. A., Philadelphia, Pa., assignor to Crompton & Knowles Loom Works. Spooler for pile-fabric looms. No. 933,213; Sept. 7; Sp. p. 407; Gaz. vol. 146; p. 63.
- Whitmore, F. A., Philadelphia, Pa., assignor to Crompton & Knowles Loom Works. Loom for making tufted fabrics. No. 941,176; Nov. 23; Sp. p. 6029; Gaz. vol. 148; p. 1013.

*Alphabetical list of patentees—Continued.*

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- Whitmore, S. M., Preguall, S. C. Rail-brace. No. 937,494; Oct. 19; Sp. p. 3976; Gaz. vol. 147; p. 675.
- Whitner, H. K., Chicago, Ill. Safety-support for window-cleaners. No. 917,506; Apr. 6; Sp. p. 1074; Gaz. vol. 141; p. 188.
- Whitner, H. K., Chicago, Ill. Expansion-bolt. No. 921,037; May 11; Sp. p. 1916; Gaz. vol. 142; p. 339.
- Whitney, A. E. (See McIndoe, J. W., assignor.)
- Whitney, A. E., Winchester, Mass. Supplemental wheel for motor-cars. No. 936,750; Oct. 12; Sp. p. 2411; Gaz. vol. 147; p. 401.
- Whitney, B. S., Putnam, Conn. Dumb-bell. No. 916,813; Mar. 30; Sp. p. 6371; Gaz. vol. 140; p. 1138.
- Whitney, C. H., assignor of one-half to L. W. Newby, Longmont, Colo. Hay-retainer. No. 936,500; Oct. 12; Sp. p. 1913; Gaz. vol. 147; p. 315.
- Whitney Duplicating Check Company. (See Whitney, L. G., assignor.)
- Whitney, E., Omaha, Nebr. Scaffold-coupling stirrup. No. 930,110; Aug. 3; Sp. p. 1029; Gaz. vol. 145; p. 166.
- Whitney, E. B., Oakland, Cal. Smoking-pipe. No. 942,688; Dec. 7; Sp. p. 1355; Gaz. vol. 149; p. 223.
- Whitney, E. D., Portland, Ore. Compressible concrete-pile former. No. 933,280; Sept. 7; Sp. p. 572; Gaz. vol. 146; p. 88.
- Whitney, E. R., Lynn, Mass., assignor to General Electric Company. Brush-holder. No. 917,223; Apr. 6; Sp. p. 536; Gaz. vol. 141; p. 94.
- Whitney, E. R., Lynn, Mass., assignor to General Electric Company. Electric drive for machines. No. 919,986; Apr. 27; Sp. p. 6459; Gaz. vol. 141; p. 1104.
- Whitney, F., Cimarron, N. Mex. Ter. Combined bed-sheet and shelter-tent. No. 929,357; July 27; Sp. p. 5546; Gaz. vol. 144; p. 972.
- Whitney, F., Lakeside, Ill. Photographic plate or film holder. No. 937,129; Oct. 19; Sp. p. 3166; Gaz. vol. 147; p. 556.
- Whitney, F. E., Syracuse, N. Y. Handle attachment. No. 911,791; Feb. 9; Sp. p. 1503; Gaz. vol. 139; p. 280.
- Whitney, F. E., Melrose, Mass. Ice-cream freezer. No. 916,237; Mar. 23; Sp. p. 5254; Gaz. vol. 140; p. 928.
- Whitney, F. L., Lincoln, Nebr. Implement for digging, transplanting plants, and pulling weeds. No. 944,393; Dec. 28; Sp. p. 5060; Gaz. vol. 149; p. 890.
- Whitney, G. E., Boston, Mass., assignor, by mesne assignments, to Stanley Motor Carriage Company. Exhaust-dissipating apparatus for motor-vehicles. No. 922,741; May 25; Sp. p. 5447; Gaz. vol. 142; p. 959.
- Whitney, G. E., Boston, Mass., assignor, by mesne assignments, to Stanley Motor Carriage Company. Hydrocarbon-burner. No. 933,684; Sept. 7; Sp. p. 1473; Gaz. vol. 146; p. 222.
- Whitney, G. F., East Orange, N. J., assignor, by mesne assignments, to National Water Main Cleaning Company, New York, N. Y. Pipe-cleaning device. No. 944,710; Dec. 28; Sp. p. 5773; Gaz. vol. 149; p. 999.
- Whitney, J. B., Brooklyn, N. Y. Stop-motion mechanism for looms. No. 923,393; June 1; Sp. p. 650; Gaz. vol. 143; p. 94.
- Whitney, L. D., Deering, N. D. Drill-cup cleaner. No. 935,873; Oct. 5; Sp. p. 593; Gaz. vol. 147; p. 85.
- Whitney, L. G., assignor to Whitney Duplicating Check Company, New York, N. Y. Manifold order or sales book. No. 933,513; Sept. 7; Sp. p. 1143; Gaz. vol. 146; p. 164.
- Whitney Manufacturing Company. (See Butler, W. M., assignor.)
- Whitney, W. C., assignor to Highland Falls Manufacturing Company, Highland Falls, N. Y. Drill. No. 938,534; Nov. 2; Sp. p. 215; Gaz. vol. 148; p. 31.
- Whitney, W. D. (See Brown and Whitney.)
- Whitney, W. D., Hoiley, N. Y. Gate. No. 942,228; Dec. 7; Sp. p. 431; Gaz. vol. 149; p. 66.
- Whitney, W. H. (See Chase, R. A., assignor.)
- Whitney, W. H., assignor of one-half to B. J. Orendorff, Kewanee, Ill. Surveying instrument. No. 916,238; Mar. 23; Sp. p. 5256; Gaz. vol. 140; p. 928.
- Whitney, W. R., Boston, Mass., assignor to General Electric Company. Arc-lamp. No. 915,052; Mar. 9; Sp. p. 2861; Gaz. vol. 140; p. 485.
- Whitney, W. R., Glenview, N. Y., assignor to General Electric Company. Carbon, filament, and making the same. No. 916,905; Mar. 30; Sp. p. 6552; Gaz. vol. 140; p. 1169.
- Whitney, W. R., Schenectady, N. Y., assignor to General Electric Company. Means for reducing the freezing-point of oil. No. 919,506; Apr. 27; Sp. p. 5494; Gaz. vol. 141; p. 944.
- Whitney, W. R., Schenectady, N. Y., assignor to General Electric Company. Insulating sheet metal. No. 923,228; June 1; Sp. p. 223; Gaz. vol. 143; p. 37.
- Whitney, W. R., Schenectady, N. Y., assignor to General Electric Company. Electric meter. No. 925,064; June 15; Sp. p. 4210; Gaz. vol. 143; p. 717.
- Whitney, W. R., Alplaus, N. Y., assignor to General Electric Company. Purification of porous materials. No. 923,227; June 1; Sp. p. 222; Gaz. vol. 143; p. 36.
- Whitney, W. R., Alplaus, N. Y., assignor to General Electric Company. Purification of porous material. No. 923,745; June 1; Sp. p. 1381; Gaz. vol. 143; p. 215.
- Whitney, W. S., Fort Smith, Ark. Churn-power. No. 928,297; July 20; Sp. p. 3359; Gaz. vol. 144; p. 591.
- Whitton, E. V., assignor to Williamson Pen Company, Janesville, Wis. Feed-bar for fountain-pens. No. 910,980; Jan. 26; Sp. p. 5184; Gaz. vol. 138; p. 954.
- Whitridge, J. C., and C. B. Goodspeed, assignors to Buckeye Steel Castings Co., Columbus, Ohio. Car-truck. No. 943,853; Dec. 21; Sp. p. 3913; Gaz. vol. 149; p. 681.
- Whitsel, J. D., Liberal, Kans., assignor of one-half to H. A. Severin, Oklahoma, Okla. Melon-seeder. No. 917,824; Apr. 13; Sp. p. 1734; Gaz. vol. 141; p. 319.
- Whitson, R. M., Chicago, Ill. Closure for vessels. No. 911,099; Feb. 2; Sp. p. 147; Gaz. vol. 139; p. 28.
- Whitson, W. W., *et al.* (See Marks, R. C., assignor.)
- Whittaker, J. E., Hollidays Cove, W. Va. Speed-regulator. No. 944,394; Dec. 28; Sp. p. 5062; Gaz. vol. 149; p. 890.
- Whittaker, L., Butler, Pa. Furnace. No. 941,480; Nov. 30; Sp. p. 6698; Gaz. vol. 148; p. 1135.
- Whittall, M. J. (See Farmer, F., assignor.)
- Whittall, M. J., *et al.* (See Thibert, N. R., assignor.)
- Whittemore, J. (See Graves and Whittemore.)
- Whitten, E., Jr., and A. A. Harrell, Grand View, Tex. Automatic measuring-machine. No. 943,854; Dec. 21; Sp. p. 3914; Gaz. vol. 149; p. 681.
- Whitten, L. W., Greenville, S. C., assignor to himself, and L. T. Davidson, Louisville, Ky. Envelop-feeder for printing-presses. No. 915,140; Mar. 16; Sp. p. 3086; Gaz. vol. 140; p. 542.
- Whittier, A. E., Bristol, Conn. Oven-thermometer. No. 917,391; Apr. 6; Sp. p. 876; Gaz. vol. 141; p. 151.
- Whittington, C. C., Lake Providence, La. Plow. No. 943,584; Dec. 14; Sp. p. 3308; Gaz. vol. 149; p. 558.
- Whittle, W. H., *et al.* (See Reynolds, H. B., assignor.)
- Whitton, J. A., assignor of one-half to J. W. Miller, Los Angeles, Cal. Spark-ignition device for explosive-engines. No. 924,863; June 15; Sp. p. 3806; Gaz. vol. 143; p. 650.
- Whitton, L., assignor to C. R. Foley, Chicago, Ill. Bottle-filling device. No. 932,362; Aug. 24; Sp. p. 5769; Gaz. vol. 145; p. 985.
- Whittridge, C. D., Saugus, assignor to Wm. Filene's Sons Company, Boston, Mass. Exhibiting apparatus. No. 941,118; Nov. 23; Sp. p. 5895; Gaz. vol. 148; p. 993.
- Whittridge, C. D., Saugus, assignor to Wm. Filene's Sons Company, Boston, Mass. Exhibiting apparatus. No. 942,123; Dec. 7; Sp. p. 207; Gaz. vol. 149; p. 52.
- Whitworth, J. S., Norfolk, Va. Stake-holder. No. 916,239; Mar. 23; Sp. p. 5258; Gaz. vol. 140; p. 929.
- Whitworth, J. W. (See Immer, A. C., assignor.)
- Whonn, S. W., assignor of two-thirds to N. Moulton and one-third to O. W. Kellogg, Seattle, Wash. Extension-table. No. 937,350; Oct. 19; Sp. p. 3646; Gaz. vol. 147; p. 627.
- Whyte, C., Marrickville, Sydney, and A. Rau, St. Peters, Sydney, New South Wales, Australia; said Rau assignor to said Whyte. Manifold copying-book. No. 942,023; Nov. 30; Sp. p. 7820; Gaz. vol. 148; p. 1318.
- Whyte, F., and H. Geschwinder, Pittsburg, Pa. Washing-machine. No. 914,213; Mar. 2; Sp. p. 1186; Gaz. vol. 140; p. 186.
- Wiard, J. B., Lynn, Mass., assignor to General Electric Company. Induction-motor. No. 917,224; Apr. 6; Sp. p. 539; Gaz. vol. 141; p. 94.
- Wiard, J. B., Lynn, Mass., assignor to General Electric Company. Means for cooling electric motors. No. 920,798; May 4; Sp. p. 1431; Gaz. vol. 142; p. 231.
- Wiard, J. B., Lynn, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 925,254; June 15; Sp. p. 4568; Gaz. vol. 143; p. 781.
- Wiard, J. B., Lynn, Mass., assignor to General Electric Company. Dynamo-electric machine. No. 943,503; Dec. 14; Sp. p. 3162; Gaz. vol. 149; p. 531.
- Wible, T. H., Grand Junction, Colo. Box-covering machine. No. 916,078; Mar. 23; Sp. p. 4950; Gaz. vol. 140; p. 877.
- Wich, F. J., Cape Town, Cape Colony, assignor to Linotype and Machinery, Limited, London, England. Assembling mechanism for typographic composing-machines equipped with alternative fonts. No. 926,158; June 29; Sp. p. 6433; Gaz. vol. 143; p. 1141.
- Wichman, H. J., St. Louis, Mo. Measuring-pump. No. 937,198; Oct. 19; Sp. p. 3322; Gaz. vol. 147; p. 578.
- Wichmann, G. B., and D. Rich, St. Louis, Mo. Mop. No. 939,883; Nov. 9; Sp. p. 3148; Gaz. vol. 148; p. 519.
- Wick, C., Bingham Canyon, Utah. Portable winch. No. 927,200; July 6; Sp. p. 1035; Gaz. vol. 144; p. 167.



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- Wickersham, C. A., *et al.* (See Jacob, R. F., assignor.)
- Wickersham, C. A., *et al.* (See Moritz, A., assignor.)
- Wickes Boiler Co. (See Fisher, E. C., assignor.)
- Wickes Bros. (See Huyette, W. S., assignor.)
- Wickes Brothers. (See Graham, J. L., assignor.)
- Wickes Brothers. (See Miles, W. L., assignor.)
- Wickes, C. S., Camden, N. J., assignor to Victor Talking Machine Company. Apparatus for making sound-records for talking-machines. No. 941,291; Nov. 23; Sp. p. 6281; Gaz. vol. 148; p. 1052.
- Wickey, E. W., East Chicago, Ind. Traction device. No. 920,510; May 4; Sp. p. 845; Gaz. vol. 142; p. 135.
- Wickham, H. J. (See Shepard, W. L., assignor.)
- Wicksteed, J. H., Leeds, England. Planing, shaping, or slotting machine with reciprocating strokes of variable lengths. No. 932,734; Aug. 31; Sp. p. 6577; Gaz. vol. 145; p. 1133.
- Wickstrom, J., Warren, Pa. Trolley-harp. No. 908,719; Jan. 5; Sp. p. 616; Gaz. vol. 138; p. 96.
- Wideman, F. M. (See Butler and Wideman.)
- Widman, J. C. (See Krastin, P., assignor.)
- Widmann, F. C., Cleveland, Ohio. Tool for jewel-setters. No. 941,831; Nov. 30; Sp. p. 7457; Gaz. vol. 148; p. 1253.
- Widmann, F. C., Cleveland, Ohio. Ring-clamp. No. 941,832; Nov. 30; Sp. p. 7460; Gaz. vol. 148; p. 1254.
- Widmar, S., Peoria, Ill. Telescope or field-glass. No. 937,351; Oct. 19; Sp. p. 3647; Gaz. vol. 147; p. 627.
- Widmer, A. and S., Paterson, N. J. Harness-leveling mechanism for looms. No. 915,916; Mar. 23; Sp. p. 6645; Gaz. vol. 140; p. 824.
- Widmer, A. and S., Paterson, N. J. Shedding mechanism for looms. No. 921,772; May 18; Sp. p. 3463; Gaz. vol. 142; p. 615.
- Widmer, C. J., assignor to Philip Smith Manufacturing Company, Sidney, Ohio. Corn-sheller. No. 921,324; May 11; Sp. p. 2527; Gaz. vol. 142; p. 438.
- Widmer, S. (See Widmer, A. and S.)
- Widmer, W. A., Danbury, Conn. Variable-speed gearing. No. 928,568; July 20; Sp. p. 3885; Gaz. vol. 144; p. 679.
- Wiebe, P. W., Minot, N. D. Washtub or wringer stand. No. 929,739; Aug. 3; Sp. p. 218; Gaz. vol. 145; p. 38.
- Wiebke, C., Newark, N. J. Button-covering machine. No. 915,141; Mar. 16; Sp. p. 3088; Gaz. vol. 140; p. 542.
- Wiebke, C., Newark, N. J. Brake for trucks. No. 917,392; Apr. 6; Sp. p. 878; Gaz. vol. 141; p. 151.
- Wiebke, C., Newark, N. J. Cycloidal milling-machine. No. 935,345; Sept. 28; Sp. p. 4777; Gaz. vol. 146; p. 845.
- Wiebking, Hardinge & Co. (See Hardinge, H. H., assignor.)
- Wiechmann, F. G., New York, N. Y., assignor to Protal Company. Treating vegetable albumen and animal casein and the product therefrom. No. 932,527; Aug. 31; Sp. p. 6122; Gaz. vol. 145; p. 1062.
- Wiechmann, H. (See Menton and Wiechmann.)
- Wiechmann, J., Albany, N. Y. Boiler-flue cleaner. No. 932,209; Aug. 24; Sp. p. 5486; Gaz. vol. 145; p. 934.
- Wiechmann, J., Albany, N. Y. Flue-cleaner. No. 932,210; Aug. 24; Sp. p. 5488; Gaz. vol. 145; p. 935.
- Wieck, E. A. (See Lindewirth and Wieck.)
- Wiedeke & Company, G. (See Wiedeke, G., Sr., assignor.)
- Wiedeke, G., Sr., assignor to G. Wiedeke & Company, Dayton, Ohio. Tube-expander. No. 930,820; Aug. 10; Sp. p. 2459; Gaz. vol. 145; p. 426.
- Wiedeke, G., Sr., assignor to G. Wiedeke & Company, Dayton, Ohio. Tube-expander. No. 930,821; Aug. 10; Sp. p. 2460; Gaz. vol. 145; p. 426.
- Wiedeman, J. M., Mount Pleasant, Pa. Curtain-pole. No. 922,229; May 18; Sp. p. 4403; Gaz. vol. 142; p. 764.
- Wiedeman, L. A., Louisville, Ky. Table-slide. No. 937,731; Oct. 19; Sp. p. 4441; Gaz. vol. 147; p. 753.
- Wiedemann, J. A., Eldorado, Kans. Sign construction. No. 937,670; Oct. 19; Sp. p. 4303; Gaz. vol. 147; p. 733.
- Wiedemann, T., and J. H. Templin, Philadelphia, Pa., assignors, by mesne assignments, to Keller Manufacturing Company. Vacuum-cleaner. No. 939,117; Nov. 2; Sp. p. 1414; Gaz. vol. 148; p. 230.
- Wiedemeyer, W. I., assignor of one-half to J. Ruge, Carroll, Iowa. Manure-spreader. No. 922,830; May 25; Sp. p. 5637; Gaz. vol. 142; p. 988.
- Wiedenbeck, F. J., Glenrock, Wis. Optical-illusion device. No. 914,904; Mar. 9; Sp. p. 2616; Gaz. vol. 140; p. 438.
- Wiederhold, O., Jersey City, N. J. Inverted incandescent gas-lamp. No. 923,469; June 1; Sp. p. 800; Gaz. vol. 143; p. 119.
- Wiederhold, O., Jersey City, N. J. Incandescent gas-lamp. No. 930,822; Aug. 10; Sp. p. 2460; Gaz. vol. 145; p. 426.
- Wiederhold, O., Jersey City, N. J. Incandescent gas-lamp. No. 936,501; Oct. 12; Sp. p. 1914; Gaz. vol. 147; p. 316.
- Wiegand, F. B. (See Buchanan and Wiegand.)
- Wiegand, H., and C. W. Kronenberg, assignors of one-third to C. A. Kearns, New York, N. Y. Fly-catcher. No. 919,507; Apr. 27; Sp. p. 5495; Gaz. vol. 141; p. 944.
- Wiegand, H. J., assignor to Cutler-Hammer Mfg. Co., Milwaukee, Wis. Multiple-switch starter. No. 913,865; Mar. 2; Sp. p. 414; Gaz. vol. 140; p. 67.
- Wiegand, H. J., assignor to Cutler-Hammer Mfg. Co., Milwaukee, Wis. Multiple-switch starter. No. 913,999; Mar. 2; Sp. p. 723; Gaz. vol. 140; p. 115.
- Wiegand, H. J., assignor to Cutler-Hammer Mfg. Co., Milwaukee, Wis. Grid resistance. No. 942,156; Dec. 7; Sp. p. 283; Gaz. vol. 149; p. 43.
- Wiegand, J. J. (See Smith, Graver, and Wiegand.)
- Wiegand, W., Merseburg, assignor of one-half to R. Rieder, Frankfurt-on-the-Main, Germany. Making extracts. No. 930,909; Aug. 10; Sp. p. 2652; Gaz. vol. 145; p. 455.
- Wiegert, P. G., assignor of one-half to Standard Company, Chicago, Ill. Window frame and sash. No. 911,351; Feb. 2; Sp. p. 643; Gaz. vol. 139; p. 110.
- Wiegert, P. G., assignor of one-half to Standard Company, Chicago, Ill. Sash-weight. No. 911,352; Feb. 2; Sp. p. 647; Gaz. vol. 139; p. 110.
- Wieland, W. E., Durango, Colo. Nail-holder for hammers or hatchets. No. 932,211; Aug. 24; Sp. p. 5489; Gaz. vol. 145; p. 935.
- Wieman, F. W., Lawrence, Kans. Self-cleaning rake. No. 941,292; Nov. 23; Sp. p. 6287; Gaz. vol. 148; p. 1052.
- Wien, A., Prague, Austria-Hungary. Basket-grate for drying purposes. No. 927,699; July 13; Sp. p. 2081; Gaz. vol. 144; p. 361.
- Wienand, F. (See Caulkins and Wienand.)
- Wienl, J., Denver, Colo. Lemon-squeezer. No. 940,628; Nov. 16; Sp. p. 4835; Gaz. vol. 148; p. 805.
- Wiener, C., Philadelphia, Pa. Expansive boot-tree. No. 924,023; June 8; Sp. p. 2027; Gaz. vol. 143; p. 336.
- Wiener, C. C. (See Bebin, N. C., assignor.)
- Wiens, A. R., Milwaukee, Wis. Brush. No. 908,823; Jan. 5; Sp. p. 818; Gaz. vol. 138; p. 128.
- Wiens, A. R., Milwaukee, Wis. Sieve-cleaner brush. No. 914,687; Mar. 9; Sp. p. 2181; Gaz. vol. 140; p. 366.
- Wienshienk, C. (See Herks, J., assignor.)
- Wiese, C. S. J. (See Kjaersgaard and Wiese.)
- Wiesedeppe, S. H., Olympia, Wash. Screw-driver. No. 909,723; Jan. 12; Sp. p. 2607; Gaz. vol. 138; p. 461.
- Wiesenmeyer, C. F., Springfield, Ill. Harness-saddle. No. 915,520; Mar. 16; Sp. p. 3821; Gaz. vol. 140; p. 665.
- Wieser, J., St. Johnsville, N. Y. Duplex tracker-bar for pneumatic musical instruments. No. 917,825; Apr. 13; Sp. p. 1737; Gaz. vol. 141; p. 320.
- Wieser, J., St. Johnsville, N. Y. Automatic speed-regulator for pneumatic motors. No. 929,264; July 27; Sp. p. 5305; Gaz. vol. 144; p. 938.
- Wieser, J., St. Johnsville, N. Y. Expression device for pneumatic piano-playing mechanisms. No. 929,740; Aug. 3; Sp. p. 220; Gaz. vol. 145; p. 38.
- Wieser, J., assignor to F. Engelhardt & Sons, St. Johnsville, N. Y. Xylophone attachment for pianos. No. 932,212; Aug. 24; Sp. p. 5491; Gaz. vol. 145; p. 935.
- Wieser, J., assignor to F. Engelhardt & Sons, St. Johnsville, N. Y. Drum and cymbal attachment for autopneumatic pianos. No. 932,213; Aug. 24; Sp. p. 5493; Gaz. vol. 145; p. 935.
- Wieser, K., Bredene, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Impact-fuse. No. 911,792; Feb. 9; Sp. p. 1505; Gaz. vol. 139; p. 281.
- Wieser, K., Bredene-on-the-Ruhr, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Projectile. No. 932,214; Aug. 24; Sp. p. 5497; Gaz. vol. 145; p. 936.
- Wiesner, M., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Clamp for paper-filing devices. No. 931,978; Aug. 24; Sp. p. 5010; Gaz. vol. 145; p. 858.
- Wiest, J. H., assignor to Indiana Concrete Form Co., Indianapolis, Ind. Concrete shingle. No. 938,930; Nov. 2; Sp. p. 1057; Gaz. vol. 148; p. 167.
- Wiest, J. H., assignor to Indiana Concrete Form Co., Indianapolis, Ind. Combination concrete-molding machine. No. 939,118; Nov. 2; Sp. p. 1416; Gaz. vol. 148; p. 231.
- Wiest, J. H., assignor of one-half to C. A. Wolcott and T. S. Waltemeyer, Boulder, Colo. Pipe-clamp. No. 918,407; Apr. 13; Sp. p. 2927; Gaz. vol. 141; p. 516.
- Wiest, F. C., York, Pa. Antirattler for window-sashes. No. 934,253; Sept. 14; Sp. p. 2614; Gaz. vol. 146; p. 432.
- Wiethoff, C., Minneapolis, Minn. Dental-instrument sharpener. No. 939,365; Nov. 9; Sp. p. 2028; Gaz. vol. 148; p. 342.
- Wiffin, S. G., Des Plaines, Ill. Vacuum preserving-can. No. 913,337; Feb. 23; Sp. p. 4775; Gaz. vol. 139; p. 855.

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- Wiggenhorn, G. J., Los Angeles, Cal. Water-percolator. No. 944,395; Dec. 28; Sp. p. 5065; Gaz. vol. 149; p. 891.
- Wiggin, J. M., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Nalling-machine. No. 931,107; Aug. 17; Sp. p. 3118; Gaz. vol. 145; p. 547.
- Wiggin, J. N., Orange, N. J., assignor to H. B. Wiggin's Sons Company. Method of and device for exhibiting decorative schemes. No. 917,393; Apr. 6; Sp. p. 879; Gaz. vol. 141; p. 151.
- Wiggins, B. K., Blairsville, Pa. Potato masher and ricer. No. 917,225; Apr. 6; Sp. p. 541; Gaz. vol. 141; p. 94.
- Wiggins, G. D., Saginaw, Mich. Boring-machine. No. 942,389; Dec. 7; Sp. p. 741; Gaz. vol. 149; p. 121.
- Wigginton, G. P., assignor to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Binder. No. 941,481; Nov. 30; Sp. p. 6700; Gaz. vol. 148; p. 1135.
- Wigginton, G. P., and F. W. Hodges, assignors to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Binder. No. 941,482; Nov. 30; Sp. p. 6703; Gaz. vol. 148; p. 1135.
- Wiggler Manufacturing Company. (See Wilcox, C. M., assignor.)
- Wigglesworth, A. W., Chicago, Ill. Automatic feed-stop device for drilling-machines. No. 924,120; June 8; Sp. p. 2199; Gaz. vol. 143; p. 366.
- Wigh, L., Philadelphia, Pa. Wheelbarrow. No. 936,968; Oct. 12; Sp. p. 2836; Gaz. vol. 147; p. 473.
- Wigham, E. C., Boston, Mass. Inclosed meter-loop. No. 936,067; Oct. 5; Sp. p. 990; Gaz. vol. 147; p. 149.
- Wight, A. M., assignor to General Package Company, New York, N. Y. Knockdown box. No. 923,920; June 8; Sp. p. 1820; Gaz. vol. 143; p. 304.
- Wight, B. D., Toronto, Ontario, Canada. Cloth-measuring machine. No. 944,161; Dec. 21; Sp. p. 4574; Gaz. vol. 149; p. 785.
- Wight, C. W., Worcester, Mass. Attachments for lathes. No. 920,704; May 4; Sp. p. 1260; Gaz. vol. 142; p. 201.
- Wight, W. G., assignor of one-half to H. E. Beard, Yale, Mich. Sectional conduit. No. 909,354; Jan. 12; Sp. p. 1869; Gaz. vol. 138; p. 335.
- Wigner, S. W., Douglas, Ariz. Ter. Washboard. No. 910,335; Jan. 19; Sp. p. 3891; Gaz. vol. 138; p. 700.
- Winggaard, A. G. P., Copenhagen, Denmark. Clock and coin-freed winding apparatus. No. 912,220; Feb. 9; Sp. p. 2418; Gaz. vol. 139; p. 417.
- Winggaard, A. G. P., Copenhagen, Denmark. Clock combined with coin-freed winding-up apparatus. No. 914,907; Mar. 9; Sp. p. 2620; Gaz. vol. 140; p. 439.
- Wikander, G. R. (See Erikson and Wikander.)
- Wiking, H., Gottenborg, and B. J. Bengtsson, Källered, Sweden. Massage device. No. 942,299; Dec. 7; Sp. p. 576; Gaz. vol. 149; p. 92.
- Wikström, N., Höfators, Russia. Reducing ores. No. 914,622; Mar. 9; Sp. p. 2030; Gaz. vol. 140; p. 346.
- Wilbraham, W., Chicago, Ill. Ceiling-rosette for drop electric lamps. No. 921,038; May 11; Sp. p. 1917; Gaz. vol. 142; p. 339.
- Wilbur, C. F. (See Warren, W. J., assignor.)
- Wilbur, F. P., and E. B. Marshall, Milwaukee, Wis. Receptacle-closure. No. 940,653; Nov. 16; Sp. p. 4887; Gaz. vol. 148; p. 814.
- Wilbur, P. L., New York, N. Y. Syringe. No. 915,917; Mar. 23; Sp. p. 4647; Gaz. vol. 140; p. 825.
- Wilbur, R. M., Leadville, Colo. Animal-trap. No. 942,528; Dec. 7; Sp. p. 1051; Gaz. vol. 149; p. 170.
- Wilbur, S. P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-lamp. No. 931,168; Aug. 17; Sp. p. 3263; Gaz. vol. 145; p. 569.
- Wilbur, S. P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrode for arc-lamps. No. 931,169; Aug. 17; Sp. p. 3264; Gaz. vol. 145; p. 569.
- Wilbur, W. C., Charleston, S. C., assignor to Libbey Glass Company, Toledo, Ohio. Furnace. No. 931,663; Aug. 17; Sp. p. 4281; Gaz. vol. 145; p. 731.
- Wilchinsky, H., New York, N. Y. Convertible carriage and cradle. No. 913,082; Feb. 23; Sp. p. 4245; Gaz. vol. 139; p. 769.
- Wilck, U. (See Schwartz and Wilck.)
- Wicklerling, C., and H. F. Rediske, Milwaukee, Wis. Portable folding seat. No. 936,502; Oct. 12; Sp. p. 1916; Gaz. vol. 147; p. 316.
- Wilcox, A. C., and A. Burkholder, Clarksburg, Iowa. Device for attaching wires to posts. No. 936,751; Oct. 12; Sp. p. 2413; Gaz. vol. 147; p. 402.
- Wilcox, A. J., executor. (See Mauksch, A.)
- Wilcox, C. L., Houghton, assignor of one-half to J. G. McFee, Seattle, Wash. Cattle-guard. No. 938,032; Oct. 26; Sp. p. 5071; Gaz. vol. 147; p. 873.
- Wilcox, C. M., New Paris, Ohio, assignor to Wiggler Manufacturing Company, Elwood, Ind. Fish-lure. No. 923,095; May 25; Sp. p. 6186; Gaz. vol. 142; p. 1073.
- Wilcox, Crittenden and Company. (See Mowry, E. S., assignor.)
- Wilcox, E. C., assignor to Connecticut Telephone & Electric Company, Meriden, Conn. Electrical spark apparatus. No. 909,043 Jan. 5; Sp. p. 1241; Gaz. vol. 138; p. 200.
- Wilcox, E. F., assignor to Urban Construction Company, Kansas City, Mo. Reinforced concrete construction. No. 913,083; Feb. 23; Sp. p. 4247; Gaz. vol. 139; p. 769.
- Wilcox, H., Newark, N. J., assignor of one-half to W. W. Gage, New York, N. Y., and one-half to F. Brabson, Newark, N. J. Safety-razor. No. 939,935; Nov. 9; Sp. p. 3268; Gaz. vol. 148; p. 539.
- Wilcox, H., and F. Brabson, Newark, N. J. Air-compressor. No. 915,815; Mar. 23; Sp. p. 4459; Gaz. vol. 140; p. 792.
- Wilcox, H. S., and W. Bartholomew, assignors to Troy Laundry Machinery Company, Chicago, Ill. Centrifugal extractor. No. 924,864; June 15; Sp. p. 3808; Gaz. vol. 143; p. 650.
- Wilcox, H. S., and W. Bartholomew, assignors to Troy Laundry Machinery Company, Chicago, Ill. Power-controller for machines. No. 940,767; Nov. 23; Sp. p. 5167; Gaz. vol. 148; p. 877.
- Wilcox, J., Athol, Mass. Barrette. No. 916,079; Mar. 23; Sp. p. 4952; Gaz. vol. 140; p. 878.
- Wilcox, J. D., Pine City, Minn. Potato-digger. No. 912,344; Feb. 16; Sp. p. 2728; Gaz. vol. 139; p. 498.
- Wilcox, M. A., Los Angeles, Cal. Hot-water house-heater. No. 941,597; Nov. 30; Sp. p. 6927; Gaz. vol. 148; p. 1172.
- Wilcox Manufacturing Company. (See Prouty, T. C., assignor.)
- Wilcox, N. E., Pearce, Ariz. Vehicle-truck. No. 935,874; Oct. 5; Sp. p. 595; Gaz. vol. 147; p. 85.
- Wilcox, S. G., North Adams, Mass. Trolley-guard. No. 937,495; Oct. 19; Sp. p. 3977; Gaz. vol. 147; p. 675.
- Wilcox, S. N. (See Walker and Wilcox.)
- Wilcox, W. D., Chicago, Ill. Combined spring and friction draft-gear. No. 932,215; Aug. 24; Sp. p. 5498; Gaz. vol. 145; p. 936.
- Wilcox, W. W., and S. Putnam, Ohio City, Ohio. Car-placer. No. 934,778; Sept. 21; Sp. p. 3621; Gaz. vol. 146; p. 631.
- Wilcox & White Company. (See Gourlay, R. S., assignor.)
- Wilcox & White Company. (See Hosley, N. D., assignor.)
- Wilcox & White Company. (See Thompson, C. H., assignor.)
- Wilcox & White Company. (See White, F. C., assignor.)
- Wilcoxon, J. E., South Bend, Ind. Constructing axle-skins for vehicles. No. 933,806; Sept. 14; Sp. p. 1716; Gaz. vol. 146; p. 285.
- Wild, C., Jr., Valatie, N. Y. Composition of matter to be used as an indelible marking agent. No. 919,410; Apr. 27; Sp. p. 5256; Gaz. vol. 141; p. 910.
- Wild, F. W., Jr., Baltimore, Md., assignor to Burt Machine Company. Labeling-machine. No. 923,096; May 25; Sp. p. 6188; Gaz. vol. 142; p. 1073.
- Wild, F. W., Jr., Baltimore, Md., assignor to Burt Machine Company. Machine for measuring and packaging seeds. No. 934,118; Sept. 14; Sp. p. 2348; Gaz. vol. 146; p. 385.
- Wild, F. W., Jr., Govans, Md., assignor to Burt Machine Company. Can-lacquering machine. No. 942,951; Dec. 14; Sp. p. 1972; Gaz. vol. 149; p. 343.
- Wild, H., assignor to Firm of C. Zeiss, Jena, Germany. Telescope-level. No. 921,773; May 18; Sp. p. 3465; Gaz. vol. 142; p. 616.
- Wild, H., assignor to Firm of C. Zeiss, Jena, Germany. Telemeter. No. 939,366; Nov. 9; Sp. p. 2030; Gaz. vol. 148; p. 343.
- Wild, J. (See Earlam and Wild.)
- Wild, R., Los Angeles, Cal. Manicure implement. No. 920,409; May 4; Sp. p. 643; Gaz. vol. 142; p. 103.
- Wilde, D., Washington, Iowa. Hinge. No. 942,689; Dec. 7; Sp. p. 1356; Gaz. vol. 149; p. 223.
- Wilde, E., Philadelphia, Pa. Pneumatic propulsion of vessels. No. 915,004; Mar. 9; Sp. p. 2772; Gaz. vol. 140; p. 468.
- Wilde, E. W. (See McLane, H., assignor.)
- Wilde, J. G., et al. (See Poole, J. H., assignor.)
- Wilde, O. W., Wichita, Kans. Combined whip, rein, and lap-robe lock for vehicles. No. 944,530; Dec. 28; Sp. p. 5330; Gaz. vol. 149; p. 938.
- Wildemann, F. J., Newark, N. J. Cigar-lighter. No. 934,119; Sept. 14; Sp. p. 2350; Gaz. vol. 146; p. 386.
- Wilder, J., assignor to Wilder Metal Coating and Manufacturing Company, Connellsville, Pa. Plated metal and making the same. No. 942,803; Dec. 7; Sp. p. 1582; Gaz. vol. 149; p. 260.
- Wilder Metal Coating and Manufacturing Company. (See Wilder, J., assignor.)
- Wilder, R. T., El Paso, Tex. Filtering-machine. No. 925,856; June 22; Sp. p. 5810; Gaz. vol. 143; p. 1006.
- Wilder, W. D., and F. W. Cowan, Brockton, Mass. Shoe-tree. No. 925,736; June 22; Sp. p. 5535; Gaz. vol. 143; p. 965.
- Wilder, W. J., Gowanda, N. Y. Plow-colter. No. 938,097; Oct. 26; Sp. p. 5221; Gaz. vol. 147; p. 895.
- Wilderman, J. M., St. Louis, Mo. Transmission-gear. No. 932,216; Aug. 24; Sp. p. 5500; Gaz. vol. 145; p. 937.
- Wilderman, M., London, England. Manufacture of rubber. No. 908,925; Jan. 5; Sp. p. 1014; Gaz. vol. 138; p. 163.



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- Wilderson, C. G., assignor to Crescent Machine Company, Leetonia, Ohio. Pressure device for woodworking-machines. No. 942,804; Dec. 7; Sp. p. 1584; Gaz. vol. 149; p. 261.
- Wildhack, L. A., Frisco, Colo. Picture-holder. No. 923,394; June 1; Sp. p. 651; Gaz. vol. 143; p. 94.
- Wildhagen, H. J., Palatine, Ill. Spring-wheel. No. 933,807; Sept. 14; Sp. p. 1716; Gaz. vol. 146; p. 285.
- Wildish, H. R., Faighton, England. Billiard-marker and the like. No. 909,494; Jan. 12; Sp. p. 2146; Gaz. vol. 138; p. 380.
- Wildman Mfg. Co. (See Ballard, G. L., assignor.)
- Wildrick, W. H., Phillipsburg, N. J. Spring-wheel. No. 931,241; Aug. 17; Sp. p. 3421; Gaz. vol. 145; p. 592.
- Wildt, E. A., Scranton, Pa. Steam-jetting device. No. 924,121; June 8; Sp. p. 2202; Gaz. vol. 143; p. 367.
- Wildt, E. A., Scranton, Pa. Grate-bar. No. 944,162; Dec. 21; Sp. p. 4578; Gaz. vol. 149; p. 785.
- Wiler, C. (See Warner and Wiler.)
- Wiler, C., assignor to Western Electric Company, Chicago, Ill. Electrical measuring instrument. No. 915,257; Mar. 16; Sp. p. 3317; Gaz. vol. 140; p. 579.
- Wiles, E. B., New York, N. Y. Lock-nut. No. 909,495; Jan. 12; Sp. p. 2148; Gaz. vol. 138; p. 381.
- Wiles, O. W., Oakland, Cal. Patch for vehicle-tires. No. 915,918; Mar. 23; Sp. p. 4649; Gaz. vol. 140; p. 825.
- Wiles, R., Chicago, Ill. Automatic pistol. No. 930,710; Aug. 10; Sp. p. 2235; Gaz. vol. 145; p. 389.
- Wiles, R., Chicago, Ill., assignor to C. P. Clement, Liege, Belgium. Automatic pistol. No. 941,749; Nov. 30; Sp. p. 7259; Gaz. vol. 148; p. 1224.
- Wiley, C. A., Morton, assignor of one-half to G. Wüstner, Philadelphia, Pa. Holder for fences of poultry or other stock yards. No. 934,779; Sept. 21; Sp. p. 3622; Gaz. vol. 146; p. 631.
- Wiley, C. H., St. Louis, Mo. Gas-cock. No. 915,005; Mar. 9; Sp. p. 2774; Gaz. vol. 140; p. 469.
- Wiley, C. O., Delphi, Ind. Post-molding machine. No. 929,906; Aug. 3; Sp. p. 611; Gaz. vol. 145; p. 96.
- Wiley, C. S., *et al.* (See Hopkirk, J., assignor.)
- Wiley, R. R. and W. K., and W. S. Hough, Jr., St. Catharines, Ontario, Canada. Illuminated sign. No. 926,796; July 6; Sp. p. 184; Gaz. vol. 144; p. 31.
- Wiley & Russell Manufacturing Co. (See Cain, T. A., assignor.)
- Wiley, W., Sioux City, Iowa. Locomotive-economizer. No. 910,758; Jan. 26; Sp. p. 4775; Gaz. vol. 138; p. 864.
- Wiley, W. A., West Point, Miss. Cartridge and game belt. No. 942,390; Dec. 7; Sp. p. 742; Gaz. vol. 149; p. 121.
- Wiley, W. A., J. E. Hall, and G. F. Hall, assignors to American Sterilizer Company, Erie, Pa. Sterilizer. No. 918,409; Apr. 13; Sp. p. 2929; Gaz. vol. 141; p. 516.
- Wiley, W. K. (See Wiley and Hough.)
- Wiley, W. S., assignor to C. D. Brinegar, Wichita, Kans. Lamp-chimney. No. 931,538; Aug. 17; Sp. p. 4019; Gaz. vol. 145; p. 693.
- Wilfley, A. R., Denver, Colo., assignor of one-half to J. Seep, Titusville, Pa. Ore-roasting furnace. No. 930,254; Aug. 3; Sp. p. 1290; Gaz. vol. 145; p. 213.
- Wilfley, A. R., Denver, Colo., assignor of one-half to J. Seep, Oil City, Pa. Roasting-furnace. No. 939,936; Nov. 9; Sp. p. 3270; Gaz. vol. 148; p. 540.
- Wilfong, C. G., *et al.* (See Brenizer, O. W., assignor.)
- Wilfong, M. F., Philadelphia, Pa. Annealing-box. No. 915,258; Mar. 16; Sp. p. 3319; Gaz. vol. 140; p. 580.
- Wilfong, M. F., Philadelphia, Pa. Annealing-box. No. 915,259; Mar. 16; Sp. p. 3320; Gaz. vol. 140; p. 580.
- Wilgis, J. L., Upland, assignor of one-half to R. Ross, Chester, Pa. Window-screen. No. 940,569; Nov. 16; Sp. p. 4723; Gaz. vol. 148; p. 786.
- Wilgus, D. C., Los Angeles, Cal. Engine-starter. No. 921,933; May 18; Sp. p. 3787; Gaz. vol. 142; p. 666.
- Wilhelm, E. B., Cedar Rapids, Iowa. Stamping-machine. No. 931,170; Aug. 17; Sp. p. 3265; Gaz. vol. 145; p. 569.
- Wilhelm, F. G. (See Reinecke, Landgrebe, and Wilhelm.)
- Wilhelm, J. F., New York, N. Y., assignor to Singer Manufacturing Company. Glove and fur sewing machine. No. 921,774; May 18; Sp. p. 3466; Gaz. vol. 142; p. 616.
- Wilhelm, L., Worcester, assignor to Globe Optical Co., Boston, Mass. Lens-grinding machine. No. 912,518; Feb. 16; Sp. p. 3088; Gaz. vol. 139; p. 556.
- Wilhelm, L., Worcester, assignor to Globe Optical Company, Boston, Mass. Lens-drilling device. No. 943,289; Dec. 14; Sp. p. 2710; Gaz. vol. 149; p. 457.
- Wilbite, B. M., Gordon, Nebr. End-gate for wagons. No. 933,514; Sept. 7; Sp. p. 1147; Gaz. vol. 146; p. 165.
- Wilken, C. H., Monarch, Wyo. Pencil-holder. No. 908,528; Jan. 5; Sp. p. 200; Gaz. vol. 138; p. 35.
- Wilken, W. W., *et al.* (See Bryant, W. A., assignor.)
- Wilkendorf, F. A., Woodland, Cal. Parcel-button. No. 910,438; Jan. 19; Sp. p. 4100; Gaz. vol. 138; p. 735.
- Wilkenfeld, H. (See Pugatsky, Wilkenfeld, and Mannes.)
- Wilkes, C. H., and H. Lyke, Little Falls, N. Y. Brush-head. No. 929,064; July 27; Sp. p. 4889; Gaz. vol. 144; p. 872.
- Wilkey, A. W., Gideon, Mo. Valve mechanism. No. 914,771; Mar. 9; Sp. p. 2355; Gaz. vol. 140; p. 395.
- Wilkie, J., Yuba City, Cal. Fruit-processing machine. No. 910,336; Jan. 19; Sp. p. 3892; Gaz. vol. 138; p. 700.
- Wilkin, A., New York, N. Y. Garment-hanger. No. 921,492; May 11; Sp. p. 2872; Gaz. vol. 142; p. 494.
- Wilkin, J. T., assignor to Connerville Blower Co., Connerville, Ind. Vacuum-pump. No. 924,024; June 8; Sp. p. 2028; Gaz. vol. 148; p. 336.
- Wilkin, T. S., Oshkosh, Wis. Taper-movement for sawmill-knees. No. 934,866; Sept. 21; Sp. p. 3801; Gaz. vol. 146; p. 659.
- Wilkins, H. V., Natchez, Miss. Broom-head. No. 911,466; Feb. 2; Sp. p. 839; Gaz. vol. 139; p. 147.
- Wilkins, J., Newark, N. J. Mattress-supporter. No. 933,215; Sept. 7; Sp. p. 414; Gaz. vol. 146; p. 64.
- Wilkins, M. W., assignor to E. J. Wilkins Company, Gloversville, N. Y. Rivet-setting machine. No. 918,624; Apr. 20; Sp. p. 3409; Gaz. vol. 141; p. 616.
- Wilkins, T. M., East Randolph, assignor to C. S. Grover, Jamestown, N. Y. Regulating-valve. No. 942,360; Dec. 7; Sp. p. 693; Gaz. vol. 149; p. 112.
- Wilkins, V. P., assignor of one-half to E. Scott, Laporte, Ind. Setting mechanism for gas-meters. No. 915,521; Mar. 16; Sp. p. 3823; Gaz. vol. 140; p. 665.
- Wilkins, W. A., El Paso, Tex. Head-rest support. No. 923,746; June 1; Sp. p. 1382; Gaz. vol. 143; p. 215.
- Wilkinson, A. R., Ashburnham, Mass. Wood-rosier. No. 915,919; Mar. 23; Sp. p. 4650; Gaz. vol. 140; p. 825.
- Wilkinson, E. A., *et al.* (See Norstrom, J. K., assignor.)
- Wilkinson, J., Birmingham, Ala., assignor to Wilkinson Steam Turbine Company. Governor for elastic turbines. No. 915,716; Mar. 16; Sp. p. 4254; Gaz. vol. 140; p. 733.
- Wilkinson, J., Birmingham, Ala., assignor to Wilkinson Turbine Company. Marine turbine. No. 930,584; Aug. 10; Sp. p. 1976; Gaz. vol. 145; p. 347.
- Wilkinson, J., Providence, R. I., assignor to Wilkinson Turbine Company, Birmingham, Ala. Steam-turbine. No. 920,232; May 4; Sp. p. 283; Gaz. vol. 142; p. 46.
- Wilkinson, J. A., assignor to J. C. Pennie, A. Wanner, Jr., and E. P. Wanner, New York, N. Y. Chair with adjustable seat. No. 916,080; Mar. 23; Sp. p. 4953; Gaz. vol. 140; p. 878.
- Wilkinson, J. D., Plattsburg, assignor to A. A. Rea and G. H. Rea, Beekmantown, N. Y. Sliding-door fastener. No. 917,226; Apr. 6; Sp. p. 541; Gaz. vol. 141; p. 94.
- Wilkinson, J. F., Gloucester, Mass. Foot-power driving mechanism. No. 927,201; July 6; Sp. p. 1036; Gaz. vol. 144; p. 167.
- Wilkinson, J. W., assignor of forty-nine one-hundredths to L. Mayer, Beaumont, Tex. Pocket-closure. No. 926,530; June 29; Sp. p. 7148; Gaz. vol. 143; p. 1263.
- Wilkinson, L. A., Des Moines, Iowa. Guide for marking ballots. No. 911,100; Feb. 2; Sp. p. 149; Gaz. vol. 139; p. 28.
- Wilkinson Manufacturing Company. (See Coleman, W. H., assignor.)
- Wilkinson, R. E., Kenosha, Wis. Antirattler for windows, &c. No. 918,625; Apr. 20; Sp. p. 3414; Gaz. vol. 141; p. 616.
- Wilkinson, S., Osceola Mills, Pa. Car-wheel. No. 910,034; Jan. 19; Sp. p. 3227; Gaz. vol. 138; p. 595.
- Wilkinson Steam Turbine Company. (See Wilkinson, J., assignor.)
- Wilkinson, T. B., Los Angeles, Cal. Oil-gun. No. 928,351; July 20; Sp. p. 3456; Gaz. vol. 144; p. 609.
- Wilkinson Turbine Company. (See Wilkinson, J., assignor.)
- Wilkinson, W. A., Minneapolis, Minn. Log stopping and holding mechanism for sawmills. No. 932,217; Aug. 24; Sp. p. 5502; Gaz. vol. 145; p. 937.
- Wilkinson, W. D., Finger, and F. H. Seeley, Brinly, Tenn. Nut-lock. No. 919,667; Apr. 27; Sp. p. 5820; Gaz. vol. 141; p. 999.
- Wilkinson, W. E., assignor to York Safe & Lock Company, York, Pa. Operating mechanism for bolts of safe-doors. No. 930,328; Aug. 3; Sp. p. 1418; Gaz. vol. 145; p. 236.
- Wilkinson, W. E., and G. L. Mummert, assignors to York Safe & Lock Company, York, Pa. Safe-door. No. 909,496; Jan. 12; Sp. p. 2150; Gaz. vol. 138; p. 381.
- Wilkinson, W. E., and G. L. Mummert, assignors to York Safe & Lock Company, York, Pa. Boltwork for circular doors for safes. No. 929,907; Aug. 3; Sp. p. 615; Gaz. vol. 145; p. 97.
- Wilkinson, W. S., Wytheville, Va. Producing bituminous binders and compositions. No. 915,260; Mar. 16; Sp. p. 3321; Gaz. vol. 140; p. 580.

*Alphabetical list of patentees—Continued.*

- Wilkoshesky, E. Z., Chicago, Ill. Canceling-stamp. No. 938,098; Oct. 26; Sp. p. 5222; Gaz. vol. 147; p. 895.
- Will & Baumer Company. (See Will, L., assignor.)
- Will, J. M., Oakes, N. D. Harvester attachment for traction-engines. No. 914,097; Mar. 2; Sp. p. 951; Gaz. vol. 140; p. 149.
- Will, L., assignor to Will & Baumer Company, Syracuse, N. Y. Sad-iron waxer. No. 929,065; July 27; Sp. p. 4890; Gaz. vol. 144; p. 872.
- Williams & Robinson. (See Peache and Robinson, assignors.)
- Willard, A. G., Bakersfield, Cal. Starting device for automobile and other engines. No. 932,735; Aug. 31; Sp. p. 6580; Gaz. vol. 145; p. 1134.
- Willard, G. A., Norwood, Ohio. Laundry-tag. No. 916,939; Mar. 30; Sp. p. 6632; Gaz. vol. 140; p. 1181.
- Willard, G. A., Jr., Blair, Nev. Garment-hanger. No. 937,400; Oct. 19; Sp. p. 3760; Gaz. vol. 147; p. 644.
- Willard, J. M., Los Angeles, Cal. Apparatus for producing gas from liquid hydrocarbons. No. 921,934; May 18; Sp. p. 3788; Gaz. vol. 142; p. 667.
- Willard, M. D., Buffalo, N. Y. Washer. No. 937,199; Oct. 19; Sp. p. 3225; Gaz. vol. 147; p. 578.
- Willard, T. A., Cleveland, Ohio. Storage-battery tank. No. 942,990; Dec. 14; Sp. p. 2059; Gaz. vol. 149; p. 356.
- Willcocks, A. L., and A. P. Thorley, New York, N. Y. Bluing device. No. 939,649; Nov. 9; Sp. p. 2658; Gaz. vol. 148; p. 440.
- Willcox & Gibbs Sewing Machine Company. (See Madison, A. L., assignor.)
- Wille, R., Charlottenburg, Germany. Shrapnel. No. 911,793; Feb. 9; Sp. p. 1506; Gaz. vol. 139; p. 281.
- Willebrands, G. W. (See Kaltschmidt, A. E., assignor.)
- Willenborg, C. B., Dyersville, Iowa. Carrier. No. 940,768; Nov. 23; Sp. p. 5170; Gaz. vol. 148; p. 878.
- Willett, J. G., assignor of eighteen one-hundredths to I. Michael, eighteen one-hundredths to E. Michael, eighteen one-hundredths to C. L. Ingham, and eighteen one-hundredths to E. C. Lufkin, Buffalo, N. Y. Gas-engine. No. 914,366; Mar. 2; Sp. p. 1523; Gaz. vol. 140; p. 235.
- Willett, B. F., *et al.* (See Rogers, W. A., assignor.)
- Willett, F. M., Indianapolis, Ind. Tire-filling compound. No. 927,304; July 6; Sp. p. 1228; Gaz. vol. 144; p. 202.
- Willett, G. I., Ree Heights, S. D. Post-hole auger. No. 915,522; Mar. 16; Sp. p. 3825; Gaz. vol. 140; p. 665.
- Willett, G. I., Ree Heights, S. D. Mail-bag lock. No. 935,287; Sept. 28; Sp. p. 4649; Gaz. vol. 146; p. 826.
- Willett, O. A., Wellington, Kans. Attachment for lanterns. No. 911,533; Feb. 2; Sp. p. 972; Gaz. vol. 139; p. 169.
- Willett, S., London, England. Safety-razor. No. 936,068; Oct. 5; Sp. p. 993; Gaz. vol. 147; p. 150.
- Willett, W. J., Coolemees, assignor of one-half to F. J. Murdoch, Salisbury, N. C. Detachable implement for spinning-frames. No. 916,940; Mar. 30; Sp. p. 6634; Gaz. vol. 140; p. 1182.
- Willets, A. J., Minneapolis, Minn. Twine-cutter. No. 916,515; Mar. 30; Sp. p. 5837; Gaz. vol. 140; p. 1047.
- Willets, J. E., Pittsburg, Pa. Strainer for coffee-pots. No. 938,099; Oct. 26; Sp. p. 5224; Gaz. vol. 147; p. 895.
- Willey, A. L., Fitchburg, Mass. Slug-catcher. No. 917,692; Apr. 6; Sp. p. 1417; Gaz. vol. 141; p. 249.
- Willey, C. E., Louisville, Ky. Means for holding in place laminations of alternating-current dynamos and motors. No. 938,033; Oct. 26; Sp. p. 5073; Gaz. vol. 147; p. 873.
- Willey, R. H., *et al.* (See Houze, L., assignor.)
- Willgeroth, E., Elizabeth, N. J. Binder. No. 917,227; Apr. 6; Sp. p. 543; Gaz. vol. 141; p. 95.
- Willhahn, M. (See Alexander and Willhahn.)
- Willhide, E., Grafton, W. Va. Holder for train-signal flags. No. 918,626; Apr. 20; Sp. p. 3415; Gaz. vol. 141; p. 616.
- William A. Zeidler Company. (See Zeidler, W. A., assignor.)
- William B. Mershon and Company. (See Gilbert, H. J., assignor.)
- William B. Pollock Company. (See Jones, G. P., assignor.)
- William B. Pollock Company. (See Sherman and McKelvey, assignors.) (Reissue.)
- William Galloway Company. (See Smith, C. W., assignor.)
- William Galloway Company. (See Wilson, D. K., assignor.)
- William Galloway Company. (See Wilson and Lee, assignors.)
- William Heap & Sons. (See Heap, W. L., assignor.)
- William J. Ehrsam Co. *et al.*, trustees. (See Morscher, L. N., assignor.)
- William J. Oliver Manufacturing Company. (See Thompson, H. E., assignor.)
- William L. Gilbert Clock Company. (See Alford, F. R., assignor.)
- William L. Imlay Rapid Cyanide Process Company. (See Imlay, W. L., assignor.)
- William R. Pitt Composite Iron Works. (See Coomes, H. M., assignor.)
- William Sauttry Metals Company. (See Hayes, A., assignor.)
- William Schimper & Company. (See Babst, J., assignor.)
- William Sellers & Company. (See Benzoni, G. H., Jr., assignor.)
- William Sellers & Company. (See Burt, J., assignor.)
- William Sellers & Company. (See Haynes, W. L., assignor.)
- William Sellers & Company. (See Vold, L. H., assignor.)
- William Shakespeare Jr. Company. (See Kenyon, B. C., assignor.)
- William Wharton, Jr., & Company Incorporated. (See Davenport and Reigart, assignors.)
- Williams, A., Cambridge, Kans. Vegetable-washer. No. 919,668; Apr. 27; Sp. p. 5621; Gaz. vol. 141; p. 999.
- Williams, A., Acton, London, assignor to Crompton & Company, Limited, London, England. Apparatus for raising and lowering stage scenery and the like. No. 915,523; Mar. 16; Sp. p. 3826; Gaz. vol. 140; p. 666.
- Williams, A. A., Charlotte, N. C. Germicide lining for mouthpieces for voice-transmitting instruments. No. 913,792; Mar. 2; Sp. p. 244; Gaz. vol. 140; p. 41.
- Williams, A. D., Oakland, Cal. Flush-tank. No. 933,409; Sept. 7; Sp. p. 843; Gaz. vol. 146; p. 131.
- Williams, A. D., Roseville, Cal. Trunk-harness. No. 941,969; Nov. 30; Sp. p. 7726; Gaz. vol. 148; p. 1301.
- Williams, A. F., Victor, Colo. End-gate fastener. No. 930,585; Aug. 10; Sp. p. 1980; Gaz. vol. 145; p. 348.
- Williams, A. G. R., Petone, New Zealand. Sewing-machine shuttle. No. 932,929; Aug. 31; Sp. p. 6965; Gaz. vol. 145; p. 1196.
- Williams, A. L., assignor of one-half to C. Doescher, Waterbury, Conn. Incandescent-lamp socket. No. 921,935; May 18; Sp. p. 3795; Gaz. vol. 142; p. 667.
- Williams, A. S., Galveston, Tex. Self-serving dining-table. No. 944,931; Dec. 28; Sp. p. 6248; Gaz. vol. 149; p. 1073.
- Williams, A. W., Homestead, Pa. Quick return for screw-press mechanisms. No. 924,122; June 8; Sp. p. 2204; Gaz. vol. 143; p. 367.
- Williams, B. A., assignor of one-half to W. F. Ruwell, Philadelphia, Pa. Cigar-wrapper-cutting machine. No. 944,163; Dec. 21; Sp. p. 4580; Gaz. vol. 149; p. 785.
- Williams, B. C., Stamford, and A. C. Scott, Temple, Tex. Bed or douche pan. No. 931,539; Aug. 17; Sp. p. 4020; Gaz. vol. 145; p. 693.
- Williams, Brown & Earle. (See Brown, N. H., assignor.)
- Williams, C., *et al.* (See Mower, T., assignor.)
- Williams, C., Turney, Mo. Plow attachment. No. 943,762; Dec. 21; Sp. p. 3729; Gaz. vol. 149; p. 649.
- Williams, C. C. (See Hurlbut and Williams.)
- Williams, C. C., Columbus, Ohio. Dipper and server. No. 923,229; June 1; Sp. p. 224; Gaz. vol. 143; p. 37.
- Williams, C. C., Cleveland, Ohio. Clam-shell bucket. No. 937,496; Oct. 19; Sp. p. 3979; Gaz. vol. 147; p. 676.
- Williams, C. E., Natick, Mass. Audiphone-transmitter. No. 910,622; Jan. 26; Sp. p. 4504; Gaz. vol. 138; p. 821.
- Williams, C. E., Natick, Mass. Audiphone-transmitter. No. 911,101; Feb. 2; Sp. p. 150; Gaz. vol. 139; p. 28.
- Williams, C. E., Natick, Mass. Magnetic regulator for audiphone-receivers. No. 936,503; Oct. 12; Sp. p. 1918; Gaz. vol. 147; p. 316.
- Williams, C. E., Kennerdell, Pa. Lubricant-filling device. No. 934,254; Sept. 14; Sp. p. 2615; Gaz. vol. 146; p. 432.
- Williams, C. H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam detector. No. 931,005; Aug. 10; Sp. p. 2886; Gaz. vol. 145; p. 485.
- Williams, C. H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 938,535; Nov. 2; Sp. p. 217; Gaz. vol. 148; p. 31.
- Williams, C. I., Utica, N. Y. Check-valve. No. 911,353; Feb. 2; Sp. p. 648; Gaz. vol. 139; p. 110.
- Williams, C. I., Utica, N. Y. Valve. No. 923,470; June 1; Sp. p. 802; Gaz. vol. 143; p. 120.
- Williams, D. A., assignor of one-half to C. Murray, Represa, Cal. Bottle seal and closure. No. 916,814; Mar. 30; Sp. p. 6373; Gaz. vol. 140; p. 1139.
- Williams, D. A., assignor of one-half to C. Murray, Represa, Cal. Bottle casing and closure. No. 916,815; Mar. 30; Sp. p. 6375; Gaz. vol. 140; p. 1139.
- Williams, D. J., Provo, Utah. Combined directory and index. No. 933,281; Sept. 7; Sp. p. 574; Gaz. vol. 146; p. 88.
- Williams, D. T., Paterson, N. J., assignor to Vacuum Engineering Company. Valve. No. 917,981; Apr. 13; Sp. p. 2066; Gaz. vol. 141; p. 374.
- Williams, D. T., Paterson, N. J., assignor to Vacuum Engineering Company. Pipe-fitting. No. 921,039; May 11; Sp. p. 1918; Gaz. vol. 142; p. 340.
- Williams, D. T., Paterson, N. J., assignor to Vacuum Engineering Company, New York, N. Y. Valve. No. 919,508; Apr. 27; Sp. p. 5495; Gaz. vol. 141; p. 994.
- Williams, D. T., Paterson, N. J., assignor to Vacuum Engineering Company, New York, N. Y. Pneumatic suction-pump. No. 921,040; May 11; Sp. p. 1919; Gaz. vol. 142; p. 340.



*Alphabetical list of patentees—Continued.*

- Williams, D. T., Paterson, N. J., assignor to Vacuum Engineering Company, New York, N. Y. Pneumatic cleaning implement. No. 929,066; July 27; Sp. p. 4891; Gaz. vol. 144; p. 873.
- Williams, E. A., Jacksonville, Ill. Combined square and bevel. No. 928,569; July 20; Sp. p. 3886; Gaz. vol. 144; p. 679.
- Williams, E. B., Quincy, Mass. Clothes-pin holder. No. 918,408; Apr. 13; Sp. p. 2928; Gaz. vol. 141; p. 516.
- Williams, E. C., Stillwater, Minn. Attachment for twine-spinning machines. No. 931,827; Aug. 24; Sp. p. 4663; Gaz. vol. 145; p. 808.
- Williams, E. C., Chicago, Ill. Molding-press. No. 943,504; Dec. 14; Sp. p. 3164; Gaz. vol. 149; p. 532.
- Williams, E. E., Redmond, assignor to H. D. Mentzer, Seattle, Wash. Pipe-turning apparatus. No. 909,724; Jan. 12; Sp. p. 2608; Gaz. vol. 138; p. 461.
- Williams, E. F., and C. W. Patterson, Tampa, Fla. Bicycle-prop. No. 927,620; July 13; Sp. p. 1894; Gaz. vol. 144; p. 335.
- Williams, E. J., Salt Lake City, Utah. Vehicle-tire grip. No. 917,228; Apr. 6; Sp. p. 544; Gaz. vol. 141; p. 95.
- Williams, E. O., Jacksonville, Fla., assignor to Perfection Card Rack Company, New York, N. Y. Holder for illustrated post-cards. No. 909,497; Jan. 12; Sp. p. 2151; Gaz. vol. 138; p. 381.
- Williams, E. O., assignor to Perfection Card Rack Company, New York, N. Y. Card-rack. No. 909,498; Jan. 12; Sp. p. 2153; Gaz. vol. 138; p. 382.
- Williams, E. R., Sharpsburg, Pa. Metallic receptacle. No. 935,440; Sept. 28; Sp. p. 4952; Gaz. vol. 146; p. 875.
- Williams, E. R., St. Joseph, Mo. Trigger mechanism. No. 938,192; Oct. 26; Sp. p. 5437; Gaz. vol. 147; p. 728.
- Williams, E. R., Swissvale, assignor to Pittsburgh Steel Foundry, Pittsburg, Pa. Annealing-box. No. 934,867; Sept. 21; Sp. p. 3803; Gaz. vol. 146; p. 660.
- Williams, F. C., *et al.* (See Spiegel, J. F., assignor.)
- Williams, F. C., Cleveland, Ohio. Card-index. No. 923,471; June 1; Sp. p. 804; Gaz. vol. 143; p. 120.
- Williams, F. H., and C. W. Welch, Greene, N. Y. Automatic pole-changer. No. 931,242; Aug. 17; Sp. p. 3423; Gaz. vol. 145; p. 594.
- Williams, F. L., Tamaroa, Ill. Liquid-strainer. No. 942,428; Dec. 7; Sp. p. 821; Gaz. vol. 149; p. 134.
- Williams, F. M., *et al.* (See Lewis, G. T., assignor.)
- Williams, F. M., Potsdam, N. Y. Device for stropping the blades of safety-razors. No. 932,736; Aug. 31; Sp. p. 6582; Gaz. vol. 145; p. 1134.
- Williams, F. T., assignor to Edward Miller & Company, Meriden, Conn. Gas-regulator for Bunsen burners. No. 920,705; May 4; Sp. p. 1262; Gaz. vol. 142; p. 201.
- Williams Foundry and Machine Company. (See Williams, J. K., assignor.)
- Williams, G. A., Salt Lake City, Utah. Injector-twyer. No. 941,833; Nov. 30; Sp. p. 7461; Gaz. vol. 148; p. 1254.
- Williams, G. N., Jr., New York, N. Y. Stone-working tool. No. 925,546; June 22; Sp. p. 5125; Gaz. vol. 143; p. 903.
- Williams, G. N., Jr., New York, N. Y. Stone-futing machine. No. 939,577; Nov. 9; Sp. p. 2497; Gaz. vol. 148; p. 413.
- Williams, G. N., Jr., and J. Tinlin, New York, N. Y.; said Tinlin assignor to said Williams. Tension device. No. 916,081; Mar. 23; Sp. p. 4955; Gaz. vol. 140; p. 878.
- Williams, G. N., Jr., and J. Wegner, New York, N. Y., assignors to said Williams. Cap-plate for cylindrical saw-blades and attachment of the saw-blade thereto. No. 922,649; May 25; Sp. p. 5255; Gaz. vol. 142; p. 929.
- Williams, G. N., Jr., and J. Wegner, New York, N. Y., assignors to said Williams. Cap-plate for cylindrical saw-blades and means for attachment of the saw-blade thereto. No. 922,650; May 25; Sp. p. 5259; Gaz. vol. 142; p. 929.
- Williams, G. R. (See Lahey and Williams.)
- Williams, G. R., Little Rock, Ark. Vehicle-wheel. No. 921,493; May 11; Sp. p. 2873; Gaz. vol. 142; p. 494.
- Williams, G. T., New York, N. Y. Record-pocket. No. 911,794; Feb. 9; Sp. p. 1508; Gaz. vol. 139; p. 281.
- Williams, H., assignor to S. Rich, New York, N. Y. Combination gas-burner. No. 934,120; Sept. 14; Sp. p. 2351; Gaz. vol. 146; p. 386.
- Williams, H. B., Chocowinity, N. C. Wardrobe for bedsteads. No. 936,969; Oct. 12; Sp. p. 2837; Gaz. vol. 147; p. 473.
- Williams, H. C., Milwaukee, Wis. Sewer-vent. No. 924,711; June 15; Sp. p. 3476; Gaz. vol. 143; p. 598.
- Williams, H. C., Utica, assignor of one-third to F. B. Harrington, Menands, and one-third to S. R. Payne, Syracuse, N. Y. Railway switch and signal apparatus. No. 919,275; Apr. 20; Sp. p. 4956; Gaz. vol. 141; p. 831.
- Williams, H. D., Washington, D. C. Power-transmission gearing. No. 908,529; Jan. 5; Sp. p. 202; Gaz. vol. 138; p. 35.
- Williams, H. D., Washington, D. C., assignor to Waterbury Tool Company, Waterbury, Conn. Variable-speed gear. No. 925,148; June 15; Sp. p. 4368; Gaz. vol. 143; p. 746.
- Williams, H. E., Portsmouth, England. Variable-speed gear. No. 928,486; July 20; Sp. p. 3713; Gaz. vol. 144; p. 653.
- Williams, H. G., Granville, N. Y., assignor of one-half to S. F. Culbertson, Baltimore, Md. Rock-drilling tool. No. 912,925; Feb. 16; Sp. p. 3929; Gaz. vol. 139; p. 691.
- Williams, H. H., Chicago, Ill. Manufacture of generating-plates for X-ray machines. No. 914,623; Mar. 9; Sp. p. 2032; Gaz. vol. 140; p. 346.
- Williams, H. J., Willis, Kans. Automatic wagon-brake. No. 925,617; June 22; Sp. p. 5274; Gaz. vol. 143; p. 927.
- Williams, H. J., Ittabena, Miss., assignor to F. W. Griffith, Rushford, N. Y. Shipping box or crate. No. 923,395; June 1; Sp. p. 652; Gaz. vol. 143; p. 95.
- Williams, H. M. (See Burger and Williams.)
- Williams, H. O. (See Williams, J. C. and H. O.)
- Williams, J., Ottawa, Ill. Railway-switch. No. 916,082; Mar. 23; Sp. p. 4956; Gaz. vol. 140; p. 878.
- Williams, J. A., Cleveland, Ohio. Dynamo-electric machine. No. 926,225; June 29; Sp. p. 6592; Gaz. vol. 143; p. 1164.
- Williams, J. A., Fort Wayne, Ind. Artificial tooth. No. 944,836; Dec. 28; Sp. p. 6051; Gaz. vol. 149; p. 1042.
- Williams, J. B. (See Willison and Williams.)
- Williams, J. B., Coraopolis, Pa. Leak-detector. No. 932,079; Aug. 24; Sp. p. 5227; Gaz. vol. 145; p. 891.
- Williams, J. C. (See Robinson, J. E., assignor.)
- Williams, J. C., *et al.* (See Hill, A. D., assignor.)
- Williams, J. C. and H. O., Orange, Cal. Cultivator. No. 928,487; July 20; Sp. p. 3715; Gaz. vol. 144; p. 653.
- Williams, J. D., Clay City, Ky. Washing-machine. No. 935,441; Sept. 28; Sp. p. 4954; Gaz. vol. 146; p. 875.
- Williams, J. E., Dayton, Ohio. Weather-strip for windows. No. 919,509; Apr. 27; Sp. p. 5496; Gaz. vol. 141; p. 944.
- Williams, J. F., Bevier, Mo. Horse-detaching device. No. 909,044; Jan. 5; Sp. p. 1246; Gaz. vol. 138; p. 200.
- Williams, J. F., Sandusky, Ohio. Thermostat-controlled heater. No. 918,804; Apr. 20; Sp. p. 3825; Gaz. vol. 141; p. 677.
- Williams, J. F., Sandusky, Ohio. Combined ash-pan and burner. No. 926,531; June 29; Sp. p. 7149; Gaz. vol. 143; p. 1263.
- Williams, J. F., Sandusky, Ohio. Blowpipe. No. 942,690; Dec. 7; Sp. p. 1357; Gaz. vol. 149; p. 223.
- Williams, J. F., Sandusky, Ohio. Thermostat. No. 942,870; Dec. 7; Sp. p. 1748; Gaz. vol. 149; p. 283.
- Williams, J. G., Buffalo, N. Y. Locking and controlling device for liquid-receptacles. No. 927,621; July 13; Sp. p. 1895; Gaz. vol. 144; p. 335.
- Williams, J. H., New London, Iowa. Power-transmission gear. No. 910,623; Jan. 26; Sp. p. 4506; Gaz. vol. 138; p. 821.
- Williams, J. K., assignor of one-half to Williams Foundry and Machine Company, Akron, Ohio. Mold. No. 911,861; Feb. 9; Sp. p. 1629; Gaz. vol. 139; p. 302.
- Williams, J. K., assignor of one-half to Williams Foundry and Machine Company, Akron, Ohio. Vulcanizer. No. 914,905; Mar. 9; Sp. p. 2617; Gaz. vol. 140; p. 438.
- Williams, J. K., assignor of one-half to Williams Foundry and Machine Company, Akron, Ohio. Apparatus for manufacturing wheel-tires. No. 943,054; Dec. 14; Sp. p. 2232; Gaz. vol. 149; p. 379.
- Williams, J. K., assignor of one-half to Williams Foundry and Machine Company, Akron, Ohio. Vulcanizing-mold. No. 943,055; Dec. 14; Sp. p. 2237; Gaz. vol. 149; p. 379.
- Williams, J. K., Akron, Ohio, assignor of one-half to Williams Foundry and Machine Company. Combined press and vulcanizer. No. 933,868; Sept. 14; Sp. p. 1848; Gaz. vol. 146; p. 305.
- Williams, J. K., assignor of one-half to J. Washcofski, Nanticoke, Pa. Safety device for mine-elevators. No. 927,440; July 6; Sp. p. 1493; Gaz. vol. 144; p. 247.
- Williams, J. M., Guthrie, Okla., assignor to Electric Catalytic Air Company. Treating flour. (Reissue.) No. 13,064; Dec. 28; Sp. p. 6414; Gaz. vol. 149; p. 1100.
- Williams, J. R. (See Hamilton and Williams.)
- Williams, J. R., Milwaukee, Wis. Ferrule for pipes. No. 909,725; Jan. 12; Sp. p. 2610; Gaz. vol. 138; p. 461.
- Williams, J. R., Milwaukee, Wis. Catch-basin and trap. No. 913,338; Feb. 23; Sp. p. 4776; Gaz. vol. 139; p. 855.
- Williams, J. R., Milwaukee, Wis. Vent-cap. No. 941,668; Nov. 30; Sp. p. 7081; Gaz. vol. 148; p. 1196.
- Williams, J. R., Scranton, Pa. Making steel-center calks. No. 939,884; Nov. 9; Sp. p. 3149; Gaz. vol. 148; p. 519.
- Williams, J. S., Hartford, Ark. Horse-detacher. No. 915,006; Mar. 9; Sp. p. 2775; Gaz. vol. 140; p. 469.
- Williams, L. A., Kalamazoo, Mich. Attachment for picked stringed instruments. No. 916,906; Mar. 30; Sp. p. 6561; Gaz. vol. 140; p. 1169.
- Williams, L. N. D. (See Scott, R. W., assignor.)
- Williams, L. N. D. (See Scott and Swinglehurst, assignors.)
- Williams, L. N. D., *et al.* (See Swinglehurst, H., assignor.)
- Williams, L. P. (See Falls and Williams.)
- Williams, L. W. (See Sharp and Williams.)
- Williams, L. Y., Toledo, Ohio. Machine for making head-linings. No. 908,720; Jan. 5; Sp. p. 617; Gaz. vol. 138; p. 96.
- Williams, L. Y., Toledo, Ohio. Machine for cutting head-linings for barrels. No. 909,045; Jan. 5; Sp. p. 1247; Gaz. vol. 138; p. 200.

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- Williams, M., Birmingham, Ala. Locking device. No. 909,726; Jan. 12; Sp. p. 2611; Gaz. vol. 138; p. 462.
- Williams, M. C., Bedford, Ky., assignor of one-half to E. Farley, Bethlehem, Ind. Sifter. No. 934,492; Sept. 21; Sp. p. 3071; Gaz. vol. 146; p. 535.
- Williams, M. E., *et al.* (See Mears, W., assignor.)
- Williams, M. F., and E. H. Frickey, assignors to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Shredding-machine. No. 938,734; Nov. 2; Sp. p. 612; Gaz. vol. 148; p. 96.
- Williams, M. J., Chicago, Ill. Pulverizer. No. 939,769; Nov. 9; Sp. p. 2925; Gaz. vol. 148; p. 481.
- Williams, M. J., Chicago, Ill. Pulverizer. No. 939,770; Nov. 9; Sp. p. 2927; Gaz. vol. 148; p. 481.
- Williams, M. J., Chicago, Ill. Pulverizer. No. 939,771; Nov. 9; Sp. p. 2928; Gaz. vol. 148; p. 481.
- Williams, M. J., Chicago, Ill. Pulverizer. No. 939,772; Nov. 9; Sp. p. 2929; Gaz. vol. 148; p. 482.
- Williams, M. J., Chicago, Ill. Pulverizer. No. 939,773; Nov. 9; Sp. p. 2930; Gaz. vol. 148; p. 482.
- Williams, M. J., Chicago, Ill. Pulverizer. No. 939,774; Nov. 9; Sp. p. 2932; Gaz. vol. 148; p. 482.
- Williams, M. J., Chicago, Ill. Pulverizer. No. 939,775; Nov. 9; Sp. p. 2933; Gaz. vol. 148; p. 483.
- Williams, M. J., Chicago, Ill. Pulverizer. No. 939,776; Nov. 9; Sp. p. 2934; Gaz. vol. 148; p. 483.
- Williams, M. J., Chicago, Ill. Pulverizer. No. 939,777; Nov. 9; Sp. p. 2935; Gaz. vol. 148; p. 483.
- Williams, M. J., Chicago, Ill. Pulverizer. No. 939,778; Nov. 9; Sp. p. 2936; Gaz. vol. 148; p. 484.
- Williams, M. L., South Bend, Ind. Rear-axle transmission mechanism for automobiles. No. 913,084; Feb. 23; Sp. p. 4249; Gaz. vol. 139; p. 770.
- Williams, M. L., South Bend, Ind. Transmission-gearing for automobiles. No. 926,797; July 6; Sp. p. 185; Gaz. vol. 144; p. 31.
- Williams, N. H., Perry, N. Y. Thread-controlled stop-motion for circular-knitting machines. No. 909,727; Jan. 12; Sp. p. 2612; Gaz. vol. 138; p. 462.
- Williams, O. (See Arrington, J. B., assignor.)
- Williams, O. J. (See Williams, W. J. and O. J.)
- Williams, P. F., Chicago, Ill. Ground-pipe cap. No. 937,130; Oct. 19; Sp. p. 3173; Gaz. vol. 147; p. 557.
- Williams Patent Crusher & Pulverizer Company. (See Frickey, E. H., assignor.)
- Williams Patent Crusher & Pulverizer Company. (See Sheward, A. T., assignor.)
- Williams Patent Crusher & Pulverizer Company. (See Williams and Frickey, assignors.)
- Williams, R. (See Horath and Williams.)
- Williams, R., Washington, D. C., assignor of one-fourth to W. E. De Witt, Glen Echo, Md., one-fourth to G. W. Emery, Seaford, Del., and one-half to F. J. Frea, Washington, D. C. Butter-making machine. No. 929,908; Aug. 3; Sp. p. 616; Gaz. vol. 145; p. 97.
- Williams, R. L. (See Wells, C. P., assignor.)
- Williams, R. L., Birmingham, Ala. Bottle. No. 919,987; Apr. 27; Sp. p. 6461; Gaz. vol. 141; p. 1104.
- Williams, R. L., McDeade, Tex. Press for forming hollow articles. No. 927,622; July 13; Sp. p. 1898; Gaz. vol. 144; p. 336.
- Williams, S., Texola, Okla. Cotton-cleaner. No. 917,693; Apr. 6; Sp. p. 1418; Gaz. vol. 141; p. 250.
- Williams, S. E., Lexington, N. C. Steam-cooker. No. 921,041; May 11; Sp. p. 1921; Gaz. vol. 142; p. 340.
- Williams, S. S., Rousseville, Pa. Buoyant propeller. No. 915,398; Mar. 16; Sp. p. 3595; Gaz. vol. 140; p. 626.
- Williams, S. S., Chicago, Ill. Gyroscopic aeroplane. No. 942,691; Dec. 7; Sp. p. 1361; Gaz. vol. 149; p. 223.
- Williams, S. W. (See Archibald, N. A., assignor.)
- Williams, T., West Smithfield, London, England. Cutting-plate for meat-cutters. No. 931,828; Aug. 24; Sp. p. 4665; Gaz. vol. 145; p. 808.
- Williams, T., New York, N. Y., assignor to R. W. Buckley, Jr. Transmission device for automobiles. No. 910,981; Jan. 26; Sp. p. 5185; Gaz. vol. 138; p. 954.
- Williams, T. A., Falls Church, Va. Glazing-strip for window-frames. No. 915,142; Mar. 16; Sp. p. 3091; Gaz. vol. 140; p. 542.
- Williams, T. B. (See Smith and Williams.)
- Williams, T. B., assignor to Leavitt Machine Company, Orange, Mass. Machine for facing valves, &c. No. 913,085; Feb. 23; Sp. p. 4251; Gaz. vol. 139; p. 770.
- Williams, T. B., assignor to Leavitt Machine Company, Orange, Mass. Machine for reseating valves, &c. No. 918,805; Apr. 20; Sp. p. 3830; Gaz. vol. 141; p. 677.
- Williams, T. B., assignor to Leavitt Machine Company, Orange, Mass. Valve-reseating tool. No. 934,642; Sept. 21; Sp. p. 3366; Gaz. vol. 146; p. 586.
- Williams, T. C. (See Fisher, F., assignor.)
- Williams, T. E., Punxsutawney, Pa. Pipe-coupling. No. 931,171; Aug. 17; Sp. p. 3268; Gaz. vol. 145; p. 570.
- Williams, T. E., Liscard, England. Life-buoy. No. 935,717; Oct. 5; Sp. p. 199; Gaz. vol. 147; p. 32.
- Williams, T. H., Utica, N. Y. Apparatus for forming cement boxes. No. 922,651; May 25; Sp. p. 5261; Gaz. vol. 142; p. 930.
- Williams, T. H., Utica, N. Y. Grapple. No. 944,644; Dec. 28; Sp. p. 5631; Gaz. vol. 149; p. 977.
- Williams, T. J., Washington, D. C. Hopper-releasing device. No. 916,816; Mar. 30; Sp. p. 6376; Gaz. vol. 140; p. 1140.
- Williams, T. J., Washington, D. C. Chain-link or chain. No. 925,407; June 15; Sp. p. 4841; Gaz. vol. 143; p. 828.
- Williams, T. M., Los Angeles, Cal. Drag-handle for fishing-reels. No. 940,415; Nov. 16; Sp. p. 4392; Gaz. vol. 148; p. 735.
- Williams, V. A., Sedalia, Mo. Disinfecting apparatus. No. 914,544; Mar. 9; Sp. p. 1878; Gaz. vol. 140; p. 320.
- Williams, W., *et al.* (See Fox, A. E., assignor.)
- Williams, W., *et al.* (See Fox and Reeves, assignors.)
- Williams, W., Hopkinsville, Ky. Sterilizing attachment for the mouthpieces of speaking instruments. No. 944,397; Dec. 28; Sp. p. 5068; Gaz. vol. 149; p. 892.
- Williams, W. B., Waxahachie, Tex. Changeable exhibitor. No. 931,910; Aug. 24; Sp. p. 4873; Gaz. vol. 145; p. 835.
- Williams, W. D., Pittsburg, Pa. Awning-blind. No. 928,012; July 13; Sp. p. 2718; Gaz. vol. 144; p. 463.
- Williams, W. E. (See Neel, Williams, and Owesney.)
- Williams, W. E., Chicago, Ill. Machine for making shredded wheat biscuits. No. 931,243; Aug. 17; Sp. p. 3427; Gaz. vol. 145; p. 595.
- Williams, W. G., Hove, assignor to W. G. Kent, London, England. Ornamenting glass. No. 916,516; Mar. 30; Sp. p. 5838; Gaz. vol. 140; p. 1047.
- Williams, W. G., assignor of one-half to J. A. Gill, Vinita, Okla. Combined water-bag and syringe. No. 930,009; Aug. 3; Sp. p. 820; Gaz. vol. 145; p. 132.
- Williams, W. J., Franklin, Pa. Metal-working rolls. No. 921,042; May 11; Sp. p. 1923; Gaz. vol. 142; p. 341.
- Williams, W. J., Franklin, Pa. Rolling tie-plate bars. No. 921,043; May 11; Sp. p. 1924; Gaz. vol. 142; p. 341.
- Williams, W. J., Franklin, Pa. Rail-tie plate. No. 921,044; May 11; Sp. p. 1926; Gaz. vol. 142; p. 342.
- Williams, W. J. and O. J., Pittsfield, Ill. Switch-operating means. No. 916,817; Mar. 30; Sp. p. 6378; Gaz. vol. 140; p. 1140.
- Williams, W. K., assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Inclosed display-rack. No. 941,483; Nov. 30; Sp. p. 6707; Gaz. vol. 148; p. 1136.
- Williams, W. M., assignor of one-half to J. L. Mints, Gridley, Cal. Ore-jigger. No. 923,917; June 8; Sp. p. 1817; Gaz. vol. 143; p. 303.
- Williams, W. S., assignor of twenty-eight one-hundredths to C. W. Pifer, twenty-eight one-hundredths to C. R. Wescott, and fifteen one-hundredths to W. H. H. Hastings, Clinton, Ill. Grain-door for cars. No. 927,700; July 13; Sp. p. 2082; Gaz. vol. 144; p. 361.
- Williams, W. V., and W. K. Lane, Goldsboro, N. C. Lamp attachment. No. 925,255; June 15; Sp. p. 4570; Gaz. vol. 143; p. 781.
- Williams, White & Company. (See Cornbrooks, W. A., assignor.)
- Williams, White & Company. (See Freeland, G. W., assignor.)
- Williams, White & Company. (See Lowe, G. S., assignor.)
- Williamson, A. D., assignor to Vickers Sons & Maxim Limited, Sheffield, England. Electrical apparatus for working planing-machines and other reciprocating tools. No. 919,411; Apr. 27; Sp. p. 5256; Gaz. vol. 141; p. 911.
- Williamson, A. D., assignor to Vickers Sons & Maxim Limited, Sheffield, England. Gearing. No. 938,805; Nov. 2; Sp. p. 764; Gaz. vol. 148; p. 123.
- Williamson, A. D., assignor to Vickers Sons & Maxim Limited, Sheffield, England. Gearing. No. 939,179; Nov. 2; Sp. p. 1560; Gaz. vol. 148; p. 253.
- Williamson, A. M., assignor to International Acheson Graphite Company, Niagara Falls, N. Y. Graphite article and making the same. No. 935,180; Sept. 28; Sp. p. 4440; Gaz. vol. 146; p. 791.
- Williamson Bros. Company. (See Riley, R. S., assignor.)
- Williamson, C. A., Jersey City, N. J. Brake-operating mechanism for cars. No. 941,219; Nov. 23; Sp. p. 6133; Gaz. vol. 148; p. 1028.
- Williamson, D., New York, N. Y. Power-transmitter. No. 912,345; Feb. 16; Sp. p. 2730; Gaz. vol. 139; p. 498.
- Williamson, F. F., and D. Brennan, Jr., assignors to Sicilian Asphalt Paving Co., New York, N. Y. Road construction. No. 909,499; Jan. 12; Sp. p. 2154; Gaz. vol. 138; p. 382.
- Williamson, F. G., St. Louis, Mo. Graphite-lubricator. No. 936,970; Oct. 12; Sp. p. 2838; Gaz. vol. 147; p. 473.
- Williamson, F. W., assignor to M. P. Williamson, Chicago, Ill. Dispensing apparatus. No. 928,230; July 13; Sp. p. 3152; Gaz. vol. 144; p. 537.
- Williamson, G. (See Shavaliar, J., assignor.)
- Williamson, G. F., Brandon, Manitoba, Canada. Windmill. No. 916,240; Mar. 23; Sp. p. 5259; Gaz. vol. 140; p. 929.
- Williamson, G. F., Savannah, Ga. Closure for barrels, &c. No. 918,718; Apr. 20; Sp. p. 3665; Gaz. vol. 141; p. 650.



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 Williamson, H. C., Worcester, Mass. Circuit-closer. No. 924,123; June 8; Sp. p. 2205; Gaz. vol. 143; p. 367.  
 Williamson, H. J., Mapletown, Pa. Horse-detacher. No. 944,302; Dec. 23; Sp. p. 4866; Gaz. vol. 149; p. 858.  
 Williamson, J. (See Levey, J., assignor.)  
 Williamson, J. G., Russell, Ill. Double bit. No. 908,824; Jan. 5; Sp. p. 819; Gaz. vol. 138; p. 128.  
 Williamson, L. A., Providence, R. I. Portable electric-light fixture. No. 914,772; Mar. 9; Sp. p. 2356; Gaz. vol. 140; p. 395.  
 Williamson, M. P. (See Williamson, F. W., assignor.)  
 Williamson, P. C., Oakland, Cal. Variable-speed gear. No. 923,472; June 1; Sp. p. 806; Gaz. vol. 143; p. 120.  
 Williamson, P. L. (See Slater, C. J., assignor.)  
 Williamson Pen Company. (See Whiton, E. V., assignor.)  
 Williamson, W., and G. Blue, Sharpsburg, Pa. Sieve. No. 932,930; Aug. 31; Sp. p. 6966; Gaz. vol. 145; p. 1196.  
 Williamson, W. J., Lewistown, Ill. Hose-coupling. No. 929,067; July 27; Sp. p. 4892; Gaz. vol. 144; p. 873.  
 Williar, J. O., Mount Airy, Md. Machine for skinning meat. No. 935,181; Sept. 28; Sp. p. 4441; Gaz. vol. 146; p. 791.  
 Willig, E. (See Gonser, A. B., assignor.)  
 Willimack, V., Lost Nation, Iowa. Sharpener for lawn-mower cutters. No. 939,885; Nov. 9; Sp. p. 3152; Gaz. vol. 148; p. 520.  
 Willingham, J. J., Chicago, Ill. Match-lighter. No. 944,756; Dec. 28; Sp. p. 5888; Gaz. vol. 149; p. 1014.  
 Willis, A. C., Columbus, Ohio. Washing-machine. No. 915,143; Mar. 16; Sp. p. 3093; Gaz. vol. 140; p. 542.  
 Willis, C. J., Blackwell, Okla. Music-stand attachment. No. 938,450; Oct. 26; Sp. p. 5996; Gaz. vol. 147; p. 1016.  
 Willis, C. M., Austin, Tex. Fish-hook. No. 914,906; Mar. 9; Sp. p. 2619; Gaz. vol. 140; p. 438.  
 Willis, G. C. (See Buck and Willis.)  
 Willis, G. M., Chicago, Ill. Circuit-controlling instrument. No. 913,086; Feb. 23; Sp. p. 4253; Gaz. vol. 139; p. 770.  
 Willis, G. M., Chicago, Ill. Burglar alarm and signal system. No. 918,627; Apr. 20; Sp. p. 3416; Gaz. vol. 141; p. 617.  
 Willis, G. M., Chicago, Ill. Process and apparatus for extracting bitumen from bitumen-bearing ore. No. 918,628; Apr. 20; Sp. p. 3422; Gaz. vol. 141; p. 617.  
 Willis, G. M., Chicago, Ill. Means for separating bitumen from bitumen-bearing ore. No. 918,629; Apr. 20; Sp. p. 3425; Gaz. vol. 141; p. 618.  
 Willis, G. W., Hoosick Falls, N. Y. Mowing-machine. No. 938,100; Oct. 26; Sp. p. 5225; Gaz. vol. 147; p. 896.  
 Willis, H. M., East Williston, N. Y. Combined packing-case and tag. No. 929,068; July 27; Sp. p. 4893; Gaz. vol. 144; p. 873.  
 Willis, J. F., Minneapolis, Minn. Valve for water-closet tanks. No. 940,295; Nov. 16; Sp. p. 4083; Gaz. vol. 148; p. 693.  
 Willis, J. W., New York, N. Y., assignor of one-half to A. Blumenauer, Jersey City, N. J. Producing relief-plates for press-printing by the method known as photo-engraving. No. 918,806; Apr. 20; Sp. p. 3833; Gaz. vol. 141; p. 678.  
 Willis, L. (See Ball, D., assignor.)  
 Willis, L., assignor to Bateman Manufacturing Company, Grenloch, N. J. Hanger for the leading wheels of potato-diggers. No. 910,337; Jan. 19; Sp. p. 3894; Gaz. vol. 138; p. 701.  
 Willis, L., assignor to Bateman Manufacturing Company, Grenloch, N. J. Rod-adjusting device. No. 912,221; Feb. 9; Sp. p. 2419; Gaz. vol. 139; p. 418.  
 Willis, S. H., administrator. (See McCreary, T. W.)  
 Willison, A. C., and J. B. Williams, Cumberland, Md. Fastening device for emergency-exit doors. No. 941,000; Nov. 23; Sp. p. 5644; Gaz. vol. 148; p. 954.  
 Willison, E. C. (See Simpson, G. C., assignor.)  
 Willits, J. A., Aledo, Ill. Apparatus for dipping animals. No. 923,473; June 1; Sp. p. 810; Gaz. vol. 143; p. 120.  
 Willix, E. E., Mount Vernon, Iowa. Voting-machine. No. 920,706; May 4; Sp. p. 1263; Gaz. vol. 142; p. 201.  
 Willmann, J., Shelton, Conn. Pasteurizing milk. No. 913,600; Feb. 23; Sp. p. 5328; Gaz. vol. 139; p. 943.  
 Willmann, J., Shelton, Conn. Apparatus for recovering liquids from receptacles. No. 932,931; Aug. 31; Sp. p. 6967; Gaz. vol. 145; p. 1196.  
 Willmann, J., Derby, Conn. Pasteurizing and cooling process. No. 930,910; Aug. 10; Sp. p. 2654; Gaz. vol. 145; p. 455.  
 Willmon, J. C., Los Angeles, Cal. Vehicle-wheel. No. 930,111; Aug. 3; Sp. p. 1031; Gaz. vol. 145; p. 166.  
 Willms, C., assignor to Willms Sanitary Works, Incorporated, Baltimore, Md. Flushing-tank. No. 908,825; Jan. 5; Sp. p. 820; Gaz. vol. 138; p. 128.  
 Willms Sanitary Works. (See Willms, C., assignor.)  
 Willock, C. M., *et al.*, executors. (See Kruse, A. T.)  
 Willoughby, R. S. (See Dorner and Norquist, assignors.)  
 Willour, L., assignor of one-half to C. G. Phillips, Ashland, Ohio. Lifting-jack. No. 938,806; Nov. 2; Sp. p. 767; Gaz. vol. 148; p. 123.  
 Willows, W. V., Janesville, Wis. Ballot-box. No. 939,367; Nov. 9; Sp. p. 2033; Gaz. vol. 148; p. 343.  
 Willsie, H. E., New York, N. Y. Machine for melting snow from streets and sidewalks. No. 939,461; Nov. 9; Sp. p. 2253; Gaz. vol. 148; p. 374.  
 Willson, F. R., Worthington, Ohio. Spring-whiffletree. No. 932,932; Aug. 31; Sp. p. 6969; Gaz. vol. 145; p. 1197.  
 Willson, F. R., Jr., Worthington, Ohio, assignor, by mesne assignments, to Jeffrey Manufacturing Company. Coal-washer. No. 933,808; Sept. 14; Sp. p. 1717; Gaz. vol. 146; p. 285.  
 Willson, S. T., Denver, Colo. Gas-burner. No. 927,825; July 13; Sp. p. 2333; Gaz. vol. 144; p. 402.  
 Willson, T. L., Ottawa, Ontario, Canada. Signal-light. No. 923,474; June 1; Sp. p. 811; Gaz. vol. 143; p. 121.  
 Willson, T. L., Ottawa, Ontario, Canada. Bell-striker. No. 931,172; Aug. 17; Sp. p. 3269; Gaz. vol. 145; p. 570.  
 Willson, T. L., and M. M. Hafl, Ottawa, Ontario, Canada; said Hafl assignor to said Willson. Producing calcium silicid. No. 934,379; Sept. 14; Sp. p. 2843; Gaz. vol. 146; p. 474.  
 Willyerd, J. B., St. Louis, Mo. Combined portable photographic apparatus and dark room. No. 929,807; Aug. 3; Sp. p. 379; Gaz. vol. 145; p. 63.  
 Willyerd, J. B., St. Louis, Mo. Combined portable photographic apparatus and dark room. No. 929,808; Aug. 3; Sp. p. 381; Gaz. vol. 145; p. 63.  
 Willyerd, J. B., St. Louis, Mo. Combined portable photographic apparatus and dark room. No. 929,809; Aug. 3; Sp. p. 384; Gaz. vol. 145; p. 64.  
 Wilmore, J. T., Denver, Colo. Means for automatically controlling liquid-supply. No. 909,355; Jan. 12; Sp. p. 1870; Gaz. vol. 138; p. 335.  
 Wilmore, S. E., St. Louis, Mo. Lock for vending-machines. No. 944,398; Dec. 23; Sp. p. 5070; Gaz. vol. 149; p. 892.  
 Wilmore, W. M., Van Wert, Ohio. Display-rack. No. 918,937; Apr. 20; Sp. p. 4125; Gaz. vol. 141; p. 722.  
 Wilmot, C. W., Redondo, Cal. Electric curling-iron. No. 930,586; Aug. 10; Sp. p. 1981; Gaz. vol. 145; p. 348.  
 Wilmot, F. A. (See Palmer, W. R., assignor.)  
 Wilmot, J. F., Detroit, Mich. Vehicle-tire. No. 909,978; Jan. 19; Sp. p. 3119; Gaz. vol. 138; p. 577.  
 Wilmot, J. F., Detroit, Mich. Adjustable reclining-chair. No. 944,065; Dec. 21; Sp. p. 4370; Gaz. vol. 149; p. 753.  
 Wilms, L. W., Chicago, Ill. Garment wrapper and protector. No. 911,278; Feb. 2; Sp. p. 509; Gaz. vol. 139; p. 87.  
 Wilsch, A., Chicago, Ill. Hammock. No. 916,517; Mar. 30; Sp. p. 5839; Gaz. vol. 140; p. 1047.  
 Wilshire, N. F., Los Angeles, Cal. Cupola. No. 924,025; June 8; Sp. p. 2030; Gaz. vol. 143; p. 337.  
 Wilske, F. A. (See Kaufman and Wilske.)  
 Wilson, A., Wilson, Pa. Reel. No. 932,218; Aug. 24; Sp. p. 5504; Gaz. vol. 145; p. 937.  
 Wilson, A. J. E., Jr. (See Joseph, J. S., assignor.)  
 Wilson, A. L., Brunswick, Ga. Step or platform attachment. No. 933,148; Sept. 7; Sp. p. 224; Gaz. vol. 146; p. 38.  
 Wilson, A. L., Brunswick, Ga. Revolving grate. No. 940,570; Nov. 16; Sp. p. 4725; Gaz. vol. 148; p. 786.  
 Wilson, A. R. (See Iveson and Wilson.)  
 Wilson, B., Cambridge City, Ind. Auditorium-seat. No. 937,131; Oct. 19; Sp. p. 3175; Gaz. vol. 147; p. 557.  
 Wilson, B. F., Hastings, Nebr. Shock-loader. No. 934,587; Sept. 21; Sp. p. 3247; Gaz. vol. 146; p. 566.  
 Wilson, B. F., Knoxville, Iowa. Jar-closure. No. 934,868; Sept. 21; Sp. p. 3804; Gaz. vol. 146; p. 660.  
 Wilson, C., Brookline, Mass. Valve. No. 924,207; June 8; Sp. p. 2446; Gaz. vol. 143; p. 398.  
 Wilson, C., Richmond, Va. Portable fence. No. 925,256; June 15; Sp. p. 4571; Gaz. vol. 143; p. 781.  
 Wilson, C. A., Camden, Me. Marine port-screen. No. 923,396; June 1; Sp. p. 654; Gaz. vol. 143; p. 95.  
 Wilson, C. C. (See Leibly and Wilson.)  
 Wilson, C. C., *et al.* (See Culbertson, G. W. R., assignor.)  
 Wilson, C. C., Delhi, La. Cotton-picker. No. 915,816; Mar. 23; Sp. p. 4462; Gaz. vol. 140; p. 792.  
 Wilson, C. E. (See Walker and Wilson.)  
 Wilson, C. E., Hood River, Ore. Electric smelting-furnace. No. 921,325; May 11; Sp. p. 2528; Gaz. vol. 142; p. 438.  
 Wilson, C. E., Hood River, Ore. Electric furnace. No. 943,290; Dec. 14; Sp. p. 2712; Gaz. vol. 149; p. 458.  
 Wilson, C. G. (See Becker, E. D., assignor.)  
 Wilson, C. H., *et al.* (See Tator, L. A., assignor.)  
 Wilson, C. I. (See Wilson, G. F. and C. I.)  
 Wilson, C. W., Formoso, Kans. Line-holder. No. 924,026; June 8; Sp. p. 2032; Gaz. vol. 143; p. 337.  
 Wilson, D., Spokane, Wash. Nut-lock. No. 915,642; Mar. 16; Sp. p. 4103; Gaz. vol. 140; p. 709.

*Alphabetical list of patentees—Continued.*

- Wilson, D., Spokane, Wash. Locking device for nuts and the like. No. 915,643; Mar. 16; Sp. p. 4104; Gaz. vol. 140; p. 709.
- Wilson, D. K., assignor to William Galloway Company, Waterloo, Iowa. Mechanical movement. No. 925,547; June 22; Sp. p. 5127; Gaz. vol. 143; p. 903.
- Wilson, D. K., assignor to William Galloway Company, Waterloo, Iowa. Manure-spreader. No. 933,515; Sept. 7; Sp. p. 1149; Gaz. vol. 146; p. 165.
- Wilson, D. K., and A. W. Lee, assignors to William Galloway Company, Waterloo, Iowa. Manure-spreader. No. 921,045; May 11; Sp. p. 1927; Gaz. vol. 142; p. 342.
- Wilson, E., assignor of one-half to R. E. Adreon, St. Louis, Mo. Bell-ringer. No. 931,108; Aug. 17; Sp. p. 3124; Gaz. vol. 145; p. 547.
- Wilson, E. A., Niles, Ohio. Metal lath. No. 930,255; Aug. 3; Sp. p. 1291; Gaz. vol. 145; p. 213.
- Wilson, E. C., Oskaloosa, Kans. Pittman-head. No. 919,669; Apr. 27; Sp. p. 5822; Gaz. vol. 141; p. 999.
- Wilson, E. E. (See Hough, E. D., assignor.)
- Wilson, E. E. (See Hough and Wilson.)
- Wilson, E. E., Scottsville, Kans. Auto-propeller. No. 941,970; Nov. 30; Sp. p. 7727; Gaz. vol. 148; p. 1301.
- Wilson, E. E., Glenside, Pa., assignor to Revoli Photo-Tint and Chemical Company. Color-box. No. 924,865; June 15; Sp. p. 3809; Gaz. vol. 143; p. 651.
- Wilson, E. M., assignor to Indiana Silo Company, Anderson, Ind. Silo. No. 932,737; Aug. 31; Sp. p. 6584; Gaz. vol. 145; p. 1134.
- Wilson, E. R., Hillsdale, Ind. Generator and mixer. No. 939,779; Nov. 9; Sp. p. 2938; Gaz. vol. 148; p. 484.
- Wilson, F. H., Earely, England. Saddle for velocipedes. No. 917,982; Apr. 13; Sp. p. 2067; Gaz. vol. 141; p. 374.
- Wilson, F. H., Montrose, Pa. Sewing or work basket holder. No. 926,798; July 6; Sp. p. 190; Gaz. vol. 144; p. 31.
- Wilson, F. Y. (See Smith, F., assignor.)
- Wilson, G., Pasadena, Cal. Railway-rail joint. No. 927,305; July 6; Sp. p. 1228; Gaz. vol. 144; p. 202.
- Wilson, G. B., Columbus, Ohio. Clothes-washing device. No. 927,202; July 6; Sp. p. 1038; Gaz. vol. 144; p. 168.
- Wilson, G. E., Clinton, Iowa. Connection for corrugated pipe. No. 926,532; June 29; Sp. p. 7152; Gaz. vol. 143; p. 1263.
- Wilson, G. F. and C. L., Savannah, Mo. Ironing-board. No. 923,097; May 25; Sp. p. 6191; Gaz. vol. 142; p. 1073.
- Wilson, G. H., *et al.* (See Campbell, N., assignor.)
- Wilson, G. H., Spokane, Wash. Governor. No. 935,442; Sept. 28; Sp. p. 4957; Gaz. vol. 146; p. 875.
- Wilson, H., assignor of one-half to F. T. Roosa, Conneaut, Ohio. Combined bandage and dressing. No. 917,694; Apr. 6; Sp. p. 1420; Gaz. vol. 141; p. 250.
- Wilson, H. B. (See Chesney and Wilson.)
- Wilson, H. B., Milwaukee, Wis. Program-clock. No. 917,394; Apr. 6; Sp. p. 881; Gaz. vol. 141; p. 152.
- Wilson, H. B., San Francisco, Cal. Window-screen. No. 939,780; Nov. 9; Sp. p. 2939; Gaz. vol. 148; p. 484.
- Wilson, H. D., Jackson, Mich. Cabbage-core shredder. No. 920,799; May 4; Sp. p. 1432; Gaz. vol. 142; p. 231.
- Wilson, H. D., Jackson, Mich. Shredding-machine. No. 920,800; May 4; Sp. p. 1434; Gaz. vol. 142; p. 232.
- Wilson, H. G. (See Jacobs, B. F., assignor.)
- Wilson, H. N., Pittsfield, Mass. Floor or like construction. No. 910,757; Jan. 26; Sp. p. 4773; Gaz. vol. 138; p. 863.
- Wilson, H. S., Kirkwood, assignor to Inland Type Foundry, St. Louis Mo. Type-perfecting mechanism. No. 908,634; Jan. 5; Sp. p. 426; Gaz. vol. 138; p. 69.
- Wilson, H. W., Jersey City, and N. H. Tallman, West Hoboken, N. J.; said Tallman assignor to said Wilson. Automatic train-stop. No. 910,338; Jan. 19; Sp. p. 3895; Gaz. vol. 138; p. 701.
- Wilson, J. A., Marple, Nebr. Pitman. No. 927,392; July 6; Sp. p. 1375; Gaz. vol. 144; p. 229.
- Wilson, J. A., Jr., assignor to Noye Manufacturing Company, Buffalo, N. Y. Steering-gear for vehicles. No. 939,180; Nov. 2; Sp. p. 1563; Gaz. vol. 148; p. 253.
- Wilson, J. B. (See Wilson, L. E. and J. B.)
- Wilson, J. E. (See McConnell and Wilson.)
- Wilson, J. G., Larchmont, N. Y. Rolling shutter. No. 918,719; Apr. 20; Sp. p. 3666; Gaz. vol. 141; p. 650.
- Wilson, J. G., New York, N. Y. Gas-pressure regulator. No. 934,780; Sept. 21; Sp. p. 3623; Gaz. vol. 146; p. 632.
- Wilson, J. H., Annapolis, Md. Pocket-knife and opening-key therefor. No. 915,007; Mar. 9; Sp. p. 2777; Gaz. vol. 140; p. 469.
- Wilson, J. H., Carmi, Ill. Fish-trap. No. 925,972; June 22; Sp. p. 6037; Gaz. vol. 143; p. 1043.
- Wilson, J. H., Middlesex township, Cumberland county, Pa. Flying-machine. No. 926,159; June 29; Sp. p. 6435; Gaz. vol. 143; p. 1141.
- Wilson, J. H., Rome, Ga. Wall distributing-ring for telephone constructions. No. 934,255; Sept. 14; Sp. p. 2616; Gaz. vol. 146; p. 433.
- Wilson, J. H., and T. S. Friend, Chicago, Ill. Heat-conserving receptacle. No. 928,414; July 20; Sp. p. 3569; Gaz. vol. 144; p. 631.
- Wilson, J. J., Berlin, N. J. Fitting for steam-radiators. No. 933,869; Sept. 14; Sp. p. 1850; Gaz. vol. 146; p. 306.
- Wilson, J. M., Montclair, N. J. Removing finish. No. 932,738; Aug. 31; Sp. p. 6585; Gaz. vol. 145; p. 1135.
- Wilson, J. M., Montclair, N. J. Removing paint, varnish, and finishes. No. 936,842; Oct. 12; Sp. p. 2589; Gaz. vol. 147; p. 432.
- Wilson, J. M., assignor to Connecticut Telephone & Electric Company, Meriden, Conn. Circuit-interrupter. No. 921,046; May 11; Sp. p. 1930; Gaz. vol. 142; p. 343.
- Wilson, J. P., Trenton, Nebr. Safety ball-bearing neck-yoke. No. 927,306; July 6; Sp. p. 1230; Gaz. vol. 144; p. 202.
- Wilson, J. P., assignor to White Company, Cleveland, Ohio. Ambulance. No. 940,104; Nov. 16; Sp. p. 3683; Gaz. vol. 148; p. 627.
- Wilson, J. T., Jersey Shore, Pa. Balanced slide-valve. No. 914,470; Mar. 9; Sp. p. 1722; Gaz. vol. 140; p. 295.
- Wilson, J. T., Jersey Shore, Pa. Balanced valve. No. 914,471; Mar. 9; Sp. p. 1724; Gaz. vol. 140; p. 296.
- Wilson, J. T., Jersey Shore, Pa. Lap-joint for packings. No. 942,024; Nov. 30; Sp. p. 7823; Gaz. vol. 148; p. 1318.
- Wilson, J. W. (See Wood, J. I., assignor.)
- Wilson, K. J., New York, N. Y. Knife. No. 936,592; Oct. 12; Sp. p. 2090; Gaz. vol. 147; p. 347.
- Wilson, L. (See Lloyd and Wilson.)
- Wilson, L., Sidney, W. Va. Telegraph-key. No. 925,737; June 22; Sp. p. 5537; Gaz. vol. 143; p. 965.
- Wilson, L., assignor to F. D. West, Chicago, Ill. Scale-spring hanger. No. 937,907; Oct. 26; Sp. p. 4811; Gaz. vol. 147; p. 831.
- Wilson, L. A., New York, N. Y. Storm-front cleaner. No. 910,624; Jan. 26; Sp. p. 4508; Gaz. vol. 138; p. 821.
- Wilson, L. E. and J. B., Pittsburg, Pa. Cupidator-cover. No. 927,307; July 6; Sp. p. 1231; Gaz. vol. 144; p. 202.
- Wilson, L. G., Larchmont, N. Y. Fire-resisting shutter. No. 917,983; Apr. 13; Sp. p. 2068; Gaz. vol. 141; p. 374.
- Wilson, L. G., Larchmont, N. Y. Wicket-door for rolling shutters. No. 929,741; Aug. 3; Sp. p. 221; Gaz. vol. 145; p. 38.
- Wilson, L. G., Larchmont, N. Y. Mechanism for operating rolling metallic shutters. No. 929,742; Aug. 3; Sp. p. 222; Gaz. vol. 145; p. 39.
- Wilson, L. G., Larchmont, N. Y. Electrical controlling system for rolling or sliding shutters, elevators, &c. No. 939,650; Nov. 9; Sp. p. 2659; Gaz. vol. 148; p. 440.
- Wilson, L. J., Lockport, Ill. Covered bed. No. 928,298; July 20; Sp. p. 3361; Gaz. vol. 144; p. 591.
- Wilson, L. L., and E. Paquette, assignors to Lawrence Manufacturing Company, Lowell, Mass. Knitting-machine. No. 928,165; July 13; Sp. p. 3005; Gaz. vol. 144; p. 514.
- Wilson, L. L., and E. Paquette, Elyria, Ohio, assignors to Lawrence Manufacturing Company, Lowell, Mass. Knitting-machine. No. 928,166; July 13; Sp. p. 3013; Gaz. vol. 144; p. 514.
- Wilson, L. M., Blairstown, N. J. Washing-machine. No. 917,826; Apr. 13; Sp. p. 1739; Gaz. vol. 141; p. 320.
- Wilson, M. (See Bickle and Wilson.)
- Wilson, M. W., *et al.* (See Tator, L. A., assignor.)
- Wilson, P. H., Talent, Oreg. Gate. No. 913,444; Feb. 23; Sp. p. 4982; Gaz. vol. 139; p. 892.
- Wilson, P. H., assignor of one-half to L. Lager, Talent, Oreg. Attachment for beds. No. 942,606; Dec. 7; Sp. p. 1196; Gaz. vol. 149; p. 195.
- Wilson, R., St. Louis, Mo. Stream-motor. No. 922,652; May 25; Sp. p. 5263; Gaz. vol. 142; p. 930.
- Wilson, R. A., Tampa, Fla. Collapsible rack. No. 916,241; Mar. 23; Sp. p. 5261; Gaz. vol. 140; p. 929.
- Wilson, R. B., Chicago, Ill. Loose-leaf binder. No. 913,793; Mar. 2; Sp. p. 246; Gaz. vol. 140; p. 41.
- Wilson, S. A., Estherville, Iowa. Animal-trap. No. 914,000; Mar. 2; Sp. p. 727; Gaz. vol. 140; p. 115.
- Wilson, S. F., and W. L. Field, Los Angeles, Cal. Chronometric baby-tender. No. 910,888; Jan. 26; Sp. p. 5021; Gaz. vol. 138; p. 905.
- Wilson, S. F., and L. D. Culley, Los Angeles, Cal. Self-adjusting chronometric baby-tender. No. 928,415; July 20; Sp. p. 3571; Gaz. vol. 144; p. 631.
- Wilson, S. G., Philadelphia, Pa. Broom. No. 923,918; June 8; Sp. p. 1818; Gaz. vol. 143; p. 303.
- Wilson, S. W., Atwater, Ohio. Safety attachment for pocket-books. No. 921,775; May 18; Sp. p. 3469; Gaz. vol. 142; p. 617.
- Wilson, T., New Haven, Conn. Sulky. No. 915,008; Mar. 9; Sp. p. 2777; Gaz. vol. 140; p. 470.
- Wilson, T. H., Brisbane, Queensland, assignor of one-half to J. R. Sankey, Brisbane, Australia. Sash-holder. No. 917,827; Apr. 13; Sp. p. 1740; Gaz. vol. 141; p. 320.
- Wilson, T. M., Philadelphia, Pa. Drier. No. 930,587; Aug. 10; Sp. p. 1983; Gaz. vol. 145; p. 348.
- Wilson, W. (See James, Benson, and Wilson.)
- Wilson, W., Blair, Nebr. Separable sectional draft-beam for harrows. No. 941,177; Nov. 23; Sp. p. 6032; Gaz. vol. 148; p. 1014.
- Wilson, W., Edinburgh, Scotland. Geographical map, globe, and other geographical appliance. No. 944,248; Dec. 21; Sp. p. 4732; Gaz. vol. 149; p. 811.
- Wilson, W., and L. Weigert-Sterne, Kentish Town, England. Water-closet and apparatus for flushing the same. No. 921,047; May 11; Sp. p. 1932; Gaz. vol. 142; p. 343.



*Alphabetical list of patentees—Continued.*

- Wilson, W. A., *et al.* (See McConaghy, J. G., assignor.)
- Wilson, W. A., Jasper, Ala. Hame-clip. No. 935,080; Sept. 28; Sp. p. 4245; Gaz. vol. 146; p. 759.
- Wilson, W. A., assignor of one-half to J. M. Whaley, De Leon, Tex. Seed-planter. No. 944,396; Dec. 28; Sp. p. 5066; Gaz. vol. 149; p. 891.
- Wilson, W. C. (See Harrington, S. H., assignor.)
- Wilson, W. G., Brooklyn, assignor to Eastern Sales Book Company, Glendale, Long Island, N. Y. Triplicate sales-book. No. 936,504; Oct. 12; Sp. p. 1919; Gaz. vol. 147; p. 317.
- Wilson, W. H., *et al.* (See Whitcomb, J., assignor.)
- Wilson, W. H., Dubois, Pa. Radial door. No. 929,265; July 27; Sp. p. 5307; Gaz. vol. 144; p. 938.
- Wilson, W. J., Osborne, Kans. Sled-propeller. No. 927,912; July 13; Sp. p. 2530; Gaz. vol. 144; p. 431.
- Wilson, W. L., Kansas City, Mo. Collapsible bait-bucket. No. 933,216; Sept. 7; Sp. p. 415; Gaz. vol. 146; p. 64.
- Wilson, W. R., Cincinnati, Ohio. Vehicle-hub. No. 923,919; June 8; Sp. p. 1819; Gaz. vol. 143; p. 303.
- Wilson, W. S. (See Brewster, B. F., assignor.)
- Wilstam, A., Los Angeles, Cal. Impulse-reaction turbine. No. 925,065; June 15; Sp. p. 4212; Gaz. vol. 143; p. 717.
- Wilstam, A., Los Angeles, Cal. Motive-power system. No. 940,769; Nov. 23; Sp. p. 5171; Gaz. vol. 148; p. 878.
- Wilt, A. D., Jr., Detroit, Mich. Steering-gear. No. 923,230; June 1; Sp. p. 226; Gaz. vol. 143; p. 37.
- Wilton, G., London, England. Gas-washer. No. 929,358; July 27; Sp. p. 5548; Gaz. vol. 144; p. 972.
- Wilton, R. P., Wrightsville, Pa. Safety-faucet. No. 927,308; July 6; Sp. p. 1232; Gaz. vol. 144; p. 203.
- Wiltrout, F. M. (See Raber, Lang, and Wiltrout.)
- Wiltrout, F. M., Corunna, Ind. Portable concrete-tile mold. No. 939,578; Nov. 9; Sp. p. 2499; Gaz. vol. 148; p. 414.
- Wilzin, A., Clichy, France. Screw-capping bottles. No. 937,401; Oct. 19; Sp. p. 3761; Gaz. vol. 147; p. 644.
- Wilzin, A., St. Ouen, France, assignor to E. W. Bliss Co., Brooklyn, N. Y. Apparatus for flanging the tins or canisters for preserves. No. 928,618; July 20; Sp. p. 3987; Gaz. vol. 144; p. 696.
- Wilzin, A., Clichy, France, assignor to E. W. Bliss Co., Brooklyn, N. Y. Hydromechanical press. No. 933,010; Aug. 31; Sp. p. 7106; Gaz. vol. 145; p. 1222.
- Wimble, F. A., Shepherds Bush, London, England. Apparatus for cleaning windows and the like. No. 925,788; June 22; Sp. p. 5663; Gaz. vol. 143; p. 982.
- Wimbrough, E. C., Mobile, Ala. Rail-joint. No. 912,926; Feb. 16; Sp. p. 3930; Gaz. vol. 139; p. 692.
- Wimmer, K., Seckenheim, near Mannheim, K. Hart and A. Hertel, Mannheim, Germany. Apparatus for pressing cigars. No. 923,231; June 1; Sp. p. 229; Gaz. vol. 143; p. 38.
- Wimmer, K. H., Bremen, Germany. Obtaining coffee free from caffeine. No. 936,392; Oct. 12; Sp. p. 1652; Gaz. vol. 147; p. 280.
- Wimmer, R., assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Stable indigo-white and making same. No. 910,889; Jan. 26; Sp. p. 5024; Gaz. vol. 138; p. 905.
- Winand, P., Cologne, Germany. Explosive mixture for combustion-engines. No. 914,624; Mar. 9; Sp. p. 2033; Gaz. vol. 140; p. 346.
- Winans, T. J., assignor to "1900" Washer Company, Binghamton, N. Y. Power-transmitting device for washing-machines. No. 912,927; Feb. 16; Sp. p. 3932; Gaz. vol. 139; p. 692.
- Winans, T. J., assignor to Nineteen Hundred Washer Company, Binghamton, N. Y. Gearing. No. 913,652; Feb. 23; Sp. p. 5457; Gaz. vol. 139; p. 961.
- Winans, W. C. (See McGurrian, P. A., assignor.)
- Winans, W. G., Spokane, Wash. Folding seat. No. 939,937; Nov. 9; Sp. p. 3272; Gaz. vol. 148; p. 540.
- Winas, W. J., Saginaw, Mich. Adjustable support for shade-rollers. No. 909,269; Jan. 12; Sp. p. 1707; Gaz. vol. 138; p. 308.
- Winberg, A. F., Boundbrook, N. J. Awning. No. 924,951; June 15; Sp. p. 3972; Gaz. vol. 143; p. 679.
- Winborne, W. H., Conway, S. C. Journal-box for side-head frames. No. 916,242; Mar. 23; Sp. p. 5262; Gaz. vol. 140; p. 930.
- Winchester, R. C., Gotebo, Okla. Catapult. No. 942,300; Dec. 7; Sp. p. 578; Gaz. vol. 149; p. 92.
- Winchester Repeating Arms Co. (See Bennett, W., assignor.)
- Winchester Repeating Arms Co. (See Burton, F. F., assignor.)
- Winchester Repeating Arms Co. (See Johnson, T. C., assignor.)
- Winchester Repeating Arms Co. (See Knous, F. F., assignor.)
- Winchester Repeating Arms Co. (See Laudensack, A. F., assignor.)
- Winchester Repeating Arms Co. (See Matteson, G. F., assignor.)
- Winckler, O. G., New York, N. Y. Veterinary medicine. No. 917,507; Apr. 6; Sp. p. 1075; Gaz. vol. 141; p. 188.
- Wincerantz, J. S., Pittsburg, Pa. Telephone-transmitter attachment. No. 909,356; Jan. 12; Sp. p. 1871; Gaz. vol. 138; p. 336.
- Wind, F., Lübbecke, Germany. Vegetable-cutting machine. No. 910,159; Jan. 19; Sp. p. 3473; Gaz. vol. 138; p. 636.
- Windekecht, A., Charlottenburg, Germany. Joint for crossing bars, particularly in window-sashes. No. 920,707; May 4; Sp. p. 1267; Gaz. vol. 142; p. 202.
- Windell, F. D., Philadelphia, Pa. Playing-cards. No. 922,370; May 18; Sp. p. 4663; Gaz. vol. 142; p. 809.
- Winder, C. B., Columbus, Ohio. Wind-indicating device for practice-shooting. No. 910,035; Jan. 19; Sp. p. 3229; Gaz. vol. 138; p. 595.
- Winder, S. E., assignor of one-half to J. D. Dilworth, Salem, N. J. Bottle-blowing machine. No. 927,913; July 13; Sp. p. 2531; Gaz. vol. 144; p. 432.
- Windle, J., Spokane, Wash. Show-window fastener. No. 909,267; Jan. 12; Sp. p. 1704; Gaz. vol. 138; p. 307.
- Windle, J., Spokane, Wash. Show-window fastener. No. 909,268; Jan. 12; Sp. p. 1705; Gaz. vol. 138; p. 307.
- Windle, J. T., and R. E. Ollershaw, Bradford, England. Device for supplying adhesive fluids. No. 933,938; Sept. 14; Sp. p. 1986; Gaz. vol. 146; p. 327.
- Windom, C. E., Sterling, Ill. Cooling-board. No. 944,531; Dec. 28; Sp. p. 5393; Gaz. vol. 149; p. 938.
- Window Glass Machine Company. (See Lubbers, J. H., assignor.)
- Window Glass Machine Company. (See Thornburg, L. A., assignor.)
- Window Glass Machine Company. (See Wurts, E. V., assignor.)
- Windschild, G., Cossebaude, Germany. Water-filter. No. 932,219; Aug. 24; Sp. p. 5506; Gaz. vol. 145; p. 938.
- Windsor, F. E., *et al.* (See Cobham, F. P., assignor.)
- Wine, N. L., Polo, Ill. Pole-changer. No. 924,712; June 15; Sp. p. 3478; Gaz. vol. 143; p. 598.
- Winecoff, J. E. L., Whiteville, N. C. Violin. No. 936,505; Oct. 12; Sp. p. 1920; Gaz. vol. 147; p. 317.
- Winer, M. (See Markey, J., assignor.)
- Winestock, O. C. (See Winestock, T., assignor.)
- Winestock, O. C., Pekinsville, Vt. Spark-plug. No. 937,908; Oct. 26; Sp. p. 4812; Gaz. vol. 147; p. 832.
- Winestock, T., Stuttgart, Germany, assignor to O. C. Winestock, Pekinsville, Vt. Spark-plug. No. 919,276; Apr. 20; Sp. p. 4961; Gaz. vol. 141; p. 831.
- Winfield, J. (See Wecht and Winfield.)
- Winfield, J. B., and C. F. Ackerman, Mansfield, Ohio. Spraying-nozzle. No. 924,866; June 15; Sp. p. 3810; Gaz. vol. 143; p. 651.
- Winfield, J. B., and C. F. Ackerman, Mansfield, Ohio. Fire-hose nozzle. No. 924,867; June 15; Sp. p. 3812; Gaz. vol. 143; p. 651.
- Winfield Manufacturing Company. (See Winfield, W. C., assignor.)
- Winfield Manufacturing Company. (See Winfield and Taylor, assignors.)
- Winfield, W. C., Warren, Ohio. Electrical welding-machine. No. 935,346; Sept. 28; Sp. p. 4781; Gaz. vol. 146; p. 845.
- Winfield, W. C., assignor to Winfield Manufacturing Company, Warren, Ohio. Faucet. No. 914,473; Mar. 9; Sp. p. 1729; Gaz. vol. 140; p. 296.
- Winfield, W. C., assignor to Winfield Manufacturing Company, Warren, Ohio. Tubular lantern. No. 914,688; Mar. 9; Sp. p. 2182; Gaz. vol. 140; p. 366.
- Winfield, W. C., and A. C. Taylor, assignors to Winfield Manufacturing Company, Warren, Ohio. Electric-welding machine. No. 924,868; June 15; Sp. p. 3813; Gaz. vol. 143; p. 651.
- Winfree, J. D., Louisburg, N. C. Washbasin-or-plate. No. 936,393; Oct. 12; Sp. p. 1654; Gaz. vol. 147; p. 280.
- Wing, F. T., Lincoln, Nebr. Folding coop or crate. No. 935,443; Sept. 28; Sp. p. 4958; Gaz. vol. 146; p. 876.
- Wing, I. J., Lincoln, Nebr. Folding and sliding safe-cabinet. No. 941,052; Nov. 23; Sp. p. 5756; Gaz. vol. 148; p. 971.
- Wing, J. F., Chicago, Ill., assignor to Continental Can Company, Baltimore, Md. Runway for can ends. No. 928,725; July 20; Sp. p. 4197; Gaz. vol. 144; p. 731.
- Wing, L. J., New York, N. Y. Fan. No. 941,834; Nov. 30; Sp. p. 7462; Gaz. vol. 148; p. 1254.
- Wing, M. T. C., Pittsburg, Pa. Toy. No. 916,243; Mar. 23; Sp. p. 5264; Gaz. vol. 140; p. 930.
- Wing, M. T. C., Sewickley, Pa. Toy derrick. No. 942,229; Dec. 7; Sp. p. 432; Gaz. vol. 149; p. 66.
- Wingate, E. E., Watertown, Mass. Clothes-drier for laundries. No. 942,692; Dec. 7; Sp. p. 1363; Gaz. vol. 149; p. 224.
- Winger, W. W., Wolcott, Ind. Draft-equalizer. No. 918,630; Apr. 20; Sp. p. 3429; Gaz. vol. 141; p. 618.
- Winger, W. W., Wolcott, Ind. Draft-appliance. No. 935,135; Sept. 28; Sp. p. 4358; Gaz. vol. 146; p. 777.
- Wingerson, J. (See Spachholz and Wingerson.)
- Wingo, C. C., Baltimore, Md. Apparatus for forming headstones from plastic material. No. 918,241; Apr. 13; Sp. p. 2612; Gaz. vol. 141; p. 463.
- Wingreen, O., Mount Pleasant, Wis. Fertilizer and seed distributor. No. 926,160; June 29; Sp. p. 6437; Gaz. vol. 143; p. 1141.

*Alphabetical list of patentees—Continued.*

- Winkel, C., assignor to National Sewing Machine Company, Belvidere, Ill. Combined bobbin-case and tension for rotary sewing-machines. No. 934,869; Sept. 21; Sp. p. 3805; Gaz. vol. 146; p. 660.
- Winkelman, R., Philadelphia, Pa. Detachable drip-cup for umbrellas. No. 927,914; July 13; Sp. p. 2538; Gaz. vol. 144; p. 432.
- Winkelmeyer, J., assignor of one-half to T. S. Gettle, Anderson, Ind. Combined meat slicer and cutter. No. 908,826; Jan. 5; Sp. p. 822; Gaz. vol. 138; p. 129.
- Winkelspecht, F. C., Riverside, N. J. Stocking-shaping-board holder. No. 919,412; Apr. 27; Sp. p. 5265; Gaz. vol. 141; p. 911.
- Winkler, C., and K. H. Thoenne, Lockhart, Tex. Cotton-chopper. No. 915,009; Mar. 9; Sp. p. 2778; Gaz. vol. 140; p. 470.
- Winkler, E. T., assignor to E. Lane Smokeless Furnace and Boiler Co., Kansas City, Mo. Fuel-feeder for furnaces. No. 935,875; Oct. 5; Sp. p. 596; Gaz. vol. 147; p. 85.
- Winkler, J., Philadelphia, Pa. Safety-cock. No. 925,257; June 15; Sp. p. 4572; Gaz. vol. 143; p. 782.
- Winkler, J. F., Marquette, Mich. Miter-box. No. 920,708; May 4; Sp. p. 1268; Gaz. vol. 142; p. 202.
- Winkler, R., Covington, Ky. Boring-machine. No. 922,371; May 18; Sp. p. 4664; Gaz. vol. 142; p. 809.
- Winkles, A. T. (See Kirkby, R., assignor.)
- Winkley Company. (See Strong, W. E. S., assignor.)
- Winkley, E. E., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-skiving machine. No. 910,339; Jan. 19; Sp. p. 3899; Gaz. vol. 138; p. 701.
- Winkley, E. E., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Form-adjusting device. No. 930,823; Aug. 10; Sp. p. 2462; Gaz. vol. 145; p. 427.
- Winkley, E. E., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 932,220; Aug. 24; Sp. p. 5508; Gaz. vol. 145; p. 938.
- Winkley, E. E., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 939,462; Nov. 9; Sp. p. 2256; Gaz. vol. 148; p. 375.
- Winkley, E. E., and F. V. Hart, Lynn, Mass., assignors, by mesne assignments, to Winkley Engineering Company, Kittery, Me. Hydro-carbon-motor. No. 909,728; Jan. 12; Sp. p. 2614; Gaz. vol. 138; p. 462.
- Winkley Engineering Company. (See Winkley and Hart, assignors.)
- Winkley, F. D., assignor to Fuller & Johnson Manufacturing Company, Madison, Wis. Pump. No. 925,147; June 15; Sp. p. 4367; Gaz. vol. 143; p. 745.
- Winlund Knitting Company. (See Redin, A. W., assignor.)
- Winlund Knitting Company. (See Winlund, N. J., assignor.)
- Winlund, N. J., assignor to Winlund Knitting Company, Rockford, Ill. Knitting-machine. No. 927,915; July 13; Sp. p. 2539; Gaz. vol. 144; p. 432.
- Winner Natural Gas Burner Company. (See Conrad and Gehring, assignors.)
- Winner Natural Gas Burner Company. (See Gehring and Conrad, assignors.)
- Winquest, W. W., Brady, Nebr. Base-ball curver. No. 912,763; Feb. 16; Sp. p. 3642; Gaz. vol. 139; p. 642.
- Winseh, R. M., Lansdale, Pa. Antiskidding device for wheels. No. 921,936; May 18; Sp. p. 3796; Gaz. vol. 142; p. 667.
- Winship, R. D., Chicago, Ill. Aerating agitator for liquids. No. 932,221; Aug. 24; Sp. p. 5515; Gaz. vol. 145; p. 939.
- Winship, W. E., New York, N. Y., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 941,690; Nov. 30; Sp. p. 7128; Gaz. vol. 148; p. 1204.
- Winslow Bros. Company. (See Winslow, F. A., assignor.)
- Winslow, E. J., Chicago, Ill. Making cement. No. 913,794; Mar. 2; Sp. p. 249; Gaz. vol. 140; p. 42.
- Winslow, F. A., assignor to Winslow Bros. Company, Chicago, Ill. Fireproof stairway. No. 913,087; Feb. 23; Sp. p. 4256; Gaz. vol. 139; p. 771.
- Winslow, F. A., assignor to Winslow Bros. Company, Chicago, Ill. Sealing means. No. 938,193; Oct. 26; Sp. p. 5438; Gaz. vol. 147; p. 923.
- Winslow, G. C., Kalamazoo, Mich. Wrench. No. 928,167; July 13; Sp. p. 3015; Gaz. vol. 144; p. 515.
- Winslow, G. E., Waltham, Mass. Transmitting instrument. No. 911,354; Feb. 2; Sp. p. 650; Gaz. vol. 139; p. 111.
- Winslow, H., Providence, R. I., assignor to Cassella Color Company, New York, N. Y. Dyeing wool. No. 941,399; Nov. 30; Sp. p. 6527; Gaz. vol. 148; p. 1109.
- Winslow, L. R., Chicago, Ill. General-voting machine. No. 920,101; Apr. 27; Sp. p. 6725; Gaz. vol. 141; p. 1142.
- Winslow, L. R., Chicago, Ill. Independent-voting mechanism for voting-machines. No. 920,102; Apr. 27; Sp. p. 6741; Gaz. vol. 141; p. 1142.
- Winslow, M. H., Terre Haute, Ind. Platform-scale. No. 916,818; Mar. 30; Sp. p. 6381; Gaz. vol. 140; p. 1140.
- Winslow, M. H., Terre Haute, Ind. Platform-scale. No. 941,119; Nov. 23; Sp. p. 5896; Gaz. vol. 148; p. 993.
- Winslow, S. E., Bridgeport, Conn. Combined shaft-tug and buckle. No. 910,759; Jan. 26; Sp. p. 4777; Gaz. vol. 138; p. 864.
- Winston, C. S., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Three-wire telephone system. No. 908,926; Jan. 5; Sp. p. 1017; Gaz. vol. 138; p. 163.
- Winston, C. S., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Telephone trunking system. No. 911,188; Feb. 2; Sp. p. 324; Gaz. vol. 139; p. 57.
- Winston, C. S., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Testing system for telephone-lines. No. 913,795; Mar. 2; Sp. p. 251; Gaz. vol. 140; p. 42.
- Winston, C. S., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Telephone trunking system. No. 933,149; Sept. 7; Sp. p. 225; Gaz. vol. 146; p. 39.
- Winston, C. S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 933,150; Sept. 7; Sp. p. 229; Gaz. vol. 146; p. 39.
- Winston, C. S., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Wiring telephone-switchboards. No. 937,909; Oct. 26; Sp. p. 4814; Gaz. vol. 147; p. 832.
- Winston, O. B., Luxora, Ark. Show-rack. No. 938,194; Oct. 26; Sp. p. 5440; Gaz. vol. 147; p. 929.
- Winston, O. J., *et al.* (See Marks, R. C., assignor.)
- Winter, G. B., London, England. Motor-car wheel. No. 942,025; Nov. 30; Sp. p. 7824; Gaz. vol. 148; p. 1318.
- WINTERKIGHT, H. A., Philadelphia, Pa. Cooking apparatus. No. 925,672; June 22; Sp. p. 5387; Gaz. vol. 143; p. 944.
- WINTERKIGHT, H. A., assignor of one-half to J. M. Cornyn, Philadelphia, Pa. Cooking apparatus. No. 936,262; Oct. 5; Sp. p. 1357; Gaz. vol. 147; p. 209.
- WINTERKIGHT, H. A., assignor of one-half to J. M. Cornyn, Philadelphia, Pa. Cooking-stove. No. 944,757; Dec. 28; Sp. p. 5891; Gaz. vol. 149; p. 1015.
- Wintermeyer, M., Hanover, Germany. Machine for cutting bacon in dies. No. 935,182; Sept. 28; Sp. p. 4442; Gaz. vol. 146; p. 791.
- Wintermute, J. S., St. Thomas, Ontario, Canada. Combination rack and car. No. 918,109; Apr. 13; Sp. p. 2339; Gaz. vol. 141; p. 419.
- Wintermute, M. W., Buffalo, N. Y. Joint-fastener. No. 942,693; Dec. 7; Sp. p. 1365; Gaz. vol. 149; p. 224.
- Winters-Coleman Scale Company. (See Sonander, A., assignor.)
- Winters, H. B., Sewickley, Pa. Muffler. No. 938,101; Oct. 26; Sp. p. 5226; Gaz. vol. 147; p. 896.
- Winters, J., *et al.* (See Grott, F., assignor.)
- Winters, M., *et al.* (See Grott, F., assignor.)
- Winters, W., Tryon, Nebr. Hay-rake. No. 932,528; Aug. 31; Sp. p. 6123; Gaz. vol. 145; p. 1063.
- Wintersmith, C. H., *et al.* (See Kerrick, L. C., assignor.)
- Wintgens, P. J., Ford City, Pa. Cooling device for tin-sheet mills. No. 912,764; Feb. 16; Sp. p. 3642; Gaz. vol. 139; p. 642.
- Winton, A., Cleveland, Ohio. Sparking mechanism for explosive-engines. No. 915,644; Mar. 16; Sp. p. 4105; Gaz. vol. 140; p. 709.
- Winton, A., Cleveland, Ohio. Oil-filter. No. 923,747; June 1; Sp. p. 1383; Gaz. vol. 143; p. 216.
- Winton, A., Cleveland, Ohio. Pressure-governor for explosive-engines. No. 924,301; June 8; Sp. p. 2637; Gaz. vol. 143; p. 429.
- Winton, A., Cleveland, Ohio. Carbureter. No. 928,828; July 20; Sp. p. 4396; Gaz. vol. 144; p. 766.
- Winton, A., and H. B. Anderson, assignors to Winton Motor Carriage Company, Cleveland, Ohio. Rear-axle-driving mechanism for automobiles. No. 915,920; Mar. 23; Sp. p. 4652; Gaz. vol. 140; p. 825.
- Winton, A., and H. B. Anderson, assignors to Winton Motor Carriage Company, Cleveland, Ohio. Valve-actuating mechanism for explosive-engines. No. 919,104; Apr. 20; Sp. p. 4430; Gaz. vol. 141; p. 774.
- Winton, A., and H. B. Anderson, assignors to Winton Motor Carriage Company, Cleveland, Ohio. Propelling mechanism for motor-driven vehicles. No. 922,372; May 18; Sp. p. 4666; Gaz. vol. 142; p. 809.
- Winton, A., and H. B. Anderson, assignors to Winton Motor Carriage Company, Cleveland, Ohio. Lubricating system for automobiles. No. 925,258; June 15; Sp. p. 4574; Gaz. vol. 143; p. 782.
- Winton, A., and H. B. Anderson, assignors to Winton Motor Carriage Company, Cleveland, Ohio. Carbureter. No. 925,973; June 22; Sp. p. 6039; Gaz. vol. 143; p. 1043.
- Winton, A., and H. B. Anderson, assignors to Winton Motor Carriage Company, Cleveland, Ohio. Carbureter. No. 926,533; June 29; Sp. p. 7153; Gaz. vol. 143; p. 1263.
- Winton, J. S., Milford, Iowa. Corn-rack. No. 942,694; Dec. 7; Sp. p. 1367; Gaz. vol. 149; p. 225.
- Winton Motor Carriage Company. (See Winton and Anderson, assignors.)
- Wipder, C. W., Detroit, Mich. Register. No. 911,102; Feb. 2; Sp. p. 153; Gaz. vol. 139; p. 29.



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- Wireless Telegraphy Exploitation Company. (See Vreeland, F. K., assignor.)
- Wiris, E. J., Memphis, Tenn. Refrigerator or cold-storage room. No. 944,117; Dec. 21; Sp. p. 4487; Gaz. vol. 149; p. 771.
- Wirgovits, J., assignor of one-third to H. Heller and one-third to G. M. Smith, New York, N. Y. Aluminum-solder. No. 941,835; Nov. 30; Sp. p. 7465; Gaz. vol. 148; p. 1255.
- Wirt, H. C. (See Sanford, F. W., assignor.)
- Wirt, H. C., Schenectady, N. Y., assignor to General Electric Company. Receptacle for incandescent lamps. No. 917,229; Apr. 6; Sp. p. 545; Gaz. vol. 141; p. 95.
- Wirt, R. D., Philadelphia, Pa. Hose-rack. No. 912,928; Feb. 16; Sp. p. 3934; Gaz. vol. 139; p. 692.
- Wirt, R. D., Philadelphia, Pa. Hose-rack. No. 927,623; July 13; Sp. p. 1899; Gaz. vol. 144; p. 336.
- Wirt, R. D., Philadelphia, Pa. Hose-rack. No. 927,624; July 13; Sp. p. 1902; Gaz. vol. 144; p. 336.
- Wirth, C., and C. Beck, Nuremberg, Germany. Receiving electric system. No. 930,588; Aug. 10; Sp. p. 1987; Gaz. vol. 145; p. 348.
- Wirths, E. E. (See Larsen, J., assignor.)
- Wirtz, L., Bilston, England. Change-speed and reversing gear. No. 918,631; Apr. 20; Sp. p. 3431; Gaz. vol. 141; p. 619.
- Wischow, E., Luebeck, Germany. Hewing apparatus for open-air mining. No. 919,105; Apr. 20; Sp. p. 4432; Gaz. vol. 141; p. 774.
- Wisconsin Engine Company. (See Sargent, C. E., assignor.)
- Wise, B. P., Cleveland, Ohio. Tile greenhouse-bench. No. 923,921; June 8; Sp. p. 1821; Gaz. vol. 143; p. 304.
- Wise Furnace Company. (See Wise, W. G., assignor.)
- Wise, I., New York, N. Y. Registry-certificate. No. 934,643; Sept. 21; Sp. p. 3368; Gaz. vol. 146; p. 587.
- Wise, J., Chicago, Ill. Self-heating soldering-tool. No. 930,010; Aug. 3; Sp. p. 823; Gaz. vol. 145; p. 132.
- Wise, J., Chicago, Ill. Lantern. No. 930,011; Aug. 3; Sp. p. 824; Gaz. vol. 145; p. 132.
- Wise, J. A., assignor of one-half to R. N. Traylor, Daingerfield, Tex. Potato-cutter. No. 941,001; Nov. 23; Sp. p. 5646; Gaz. vol. 148; p. 954.
- Wise, J. B., Watertown, N. Y. Combined waste and overflow. No. 917,395; Apr. 6; Sp. p. 884; Gaz. vol. 141; p. 152.
- Wise, J. B., Watertown, N. Y. L for waste and overflow. No. 938,102; Oct. 26; Sp. p. 5228; Gaz. vol. 147; p. 896.
- Wise, J. C., Watertown, N. Y. Agitating sulfur-burner. (Reissue.) No. 12,921; Feb. 16; Sp. p. 4054; Gaz. vol. 139; p. 712.
- Wise, J. C., Charlottesville, Va. Rail-chair. No. 922,653; May 25; Sp. p. 5264; Gaz. vol. 142; p. 930.
- Wise, J. C., Metropolis, Ill. Switch-rod connection. No. 915,524; Mar. 16; Sp. p. 3830; Gaz. vol. 140; p. 666.
- Wise, L. A., New York, N. Y. Lock. No. 921,048; May 11; Sp. p. 1936; Gaz. vol. 142; p. 344.
- Wise, S. G., J. E. Troyer, Jr., Gas City, and J. E. Smisor, Marion, Ind. Computing-pump. No. 936,069; Oct. 5; Sp. p. 994; Gaz. vol. 147; p. 150.
- Wise, W. D., Detroit, Minn. Cross-line buckle. No. 938,536; Nov. 2; Sp. p. 218; Gaz. vol. 148; p. 31.
- Wise, W. D., Detroit, Minn., assignor of one-half to C. R. Stone, Fargo, N. D. Cement and concrete mixer. No. 944,399; Dec. 28; Sp. p. 5072; Gaz. vol. 149; p. 893.
- Wise, W. G., assignor to Wise Furnace Company, Akron, Ohio. Water-heating appliance. No. 935,876; Oct. 5; Sp. p. 597; Gaz. vol. 147; p. 86.
- Wiselogel, F. G., Indianapolis, Ind., assignor to United States Construction and Utilization Company, Rochester, N. Y. Press for expressing fluids from solids. No. 942,301; Dec. 7; Sp. p. 578; Gaz. vol. 149; p. 92.
- Wiseman, D. E., San Francisco, Cal., and F. F. Hedden, Chicago, Ill. Pavement-cutter. No. 928,488; July 20; Sp. p. 3717; Gaz. vol. 144; p. 654.
- Wishaar, L. B., Giant, Cal. Rotary engine. No. 944,400; Dec. 28; Sp. p. 5075; Gaz. vol. 149; p. 893.
- Wisner, A. J., Philadelphia, Pa. Air-brake. No. 927,016; July 6; Sp. p. 647; Gaz. vol. 144; p. 105.
- Wisner, C. H., Flint, Mich. Priming-cup for gasoline-engines. No. 915,399; Mar. 16; Sp. p. 3596; Gaz. vol. 140; p. 626.
- Wisniewski, K., *et al.* (See Matlak, A., assignor.)
- Wiss, E., *et al.* (See Draeger, J. H., assignor.)
- Wiss, E., Griesheim-on-the-Main, assignor to Chemische Fabrik Griesheim Electron, Frankfurt-on-the-Main, Germany. Device for severing metals. No. 932,739; Aug. 31; Sp. p. 6587; Gaz. vol. 145; p. 1135.
- Wiss, E., Griesheim-on-the-Main, assignor to Chemische Fabrik Griesheim Electron, Frankfurt-on-the-Main, Germany. Device for severing metal bodies. No. 932,740; Aug. 31; Sp. p. 6589; Gaz. vol. 145; p. 1135.
- Wissinger, J. L., Gallitzin, Pa. Water-supplying device for locomotive-tenders. No. 926,373; June 29; Sp. p. 6873; Gaz. vol. 143; p. 1209.
- Wisterman, F. S., Galion, Ohio. Burial-vault door. No. 911,189; Feb. 2; Sp. p. 327; Gaz. vol. 139; p. 57.
- Witbeck, H. N. (See Doe, W. S., assignor.)
- Witcomb, W., assignor to Atlas Engine Works, Indianapolis, Ind. Boiler-bracket. No. 939,368; Nov. 9; Sp. p. 2038; Gaz. vol. 148; p. 344.
- Witherell, G. E., and E. R. Seward, assignors to Hartford Machine Screw Company, Hartford, Conn. Die-holder. No. 915,144; Mar. 16; Sp. p. 3093; Gaz. vol. 140; p. 543.
- Witherow, W. (See Pennington and Witherow.)
- Withington, F. H., assignor to American Fork and Hoe Company, Cleveland, Ohio. Hand agricultural tool. No. 919,799; Apr. 27; Sp. p. 6062; Gaz. vol. 141; p. 1043.
- Withrow, J. F., Englewood, Kans. Feed-rack. No. 914,001; Mar. 2; Sp. p. 730; Gaz. vol. 140; p. 116.
- Witney, F. E., Fishkill-on-the-Hudson, N. Y. Carrier for tubs. No. 927,309; July 6; Sp. p. 1234; Gaz. vol. 144; p. 203.
- Witry, L. W., assignor to Waterloo Gasoline Engine Company, Waterloo, Iowa. Combined charging and feeding device for gasoline-engines. No. 935,718; Oct. 5; Sp. p. 201; Gaz. vol. 147; p. 32.
- Witt, D., Sheffield, Iowa. Stovepipe-elbow. No. 941,836; Nov. 30; Sp. p. 7466; Gaz. vol. 148; p. 1255.
- Witt, G. E., San Francisco, Cal. Lubricator. No. 934,953; Sept. 21; Sp. p. 3974; Gaz. vol. 146; p. 690.
- Witt, J. F., Chicago, Ill. Combination rail plate and brace. No. 915,921; Mar. 23; Sp. p. 4654; Gaz. vol. 140; p. 826.
- Witt, O. H., Frazee, Minn. Scrubbing-machine. No. 930,256; Aug. 3; Sp. p. 1292; Gaz. vol. 145; p. 213.
- Witt, W., Ripon, Wis. Washing-machine. No. 943,855; Dec. 21; Sp. p. 3914; Gaz. vol. 149; p. 681.
- Witte, H., assignor to St. Louis Car Company, St. Louis, Mo. Extensible leg-rest for car-seats. No. 926,309; June 29; Sp. p. 6746; Gaz. vol. 143; p. 1189.
- Witte, H., assignor to St. Louis Car Company, St. Louis, Mo. Car-seat. No. 934,121; Sept. 14; Sp. p. 2353; Gaz. vol. 146; p. 387.
- Witte, H., assignor to St. Louis Car Company, St. Louis, Mo. Car-seat. No. 935,242; Sept. 28; Sp. p. 4551; Gaz. vol. 146; p. 811.
- Witte, H., and J. B. Schuermann, assignors to St. Louis Car Company, St. Louis, Mo. Car-seat. No. 925,066; June 15; Sp. p. 4213; Gaz. vol. 143; p. 718.
- Wittier, J., Bucyrus, Ohio. Trench-cutting machine. No. 935,288; Sept. 28; Sp. p. 4651; Gaz. vol. 146; p. 826.
- Wittier, W., Hamburg, Germany. Recovering volatile metals and metalloids from lead and copper slags. No. 927,916; July 13; Sp. p. 2543; Gaz. vol. 144; p. 433.
- Witthaus, G. H., New York, N. Y. Disappearing table. No. 928,726; July 20; Sp. p. 4198; Gaz. vol. 144; p. 731.
- Witthoefft, C. H., St. Louis, Mo., assignor to Weber Company, Chicago, Ill. Scaffold or mold for erecting concrete or cement walls for buildings. No. 916,083; Mar. 23; Sp. p. 4957; Gaz. vol. 140; p. 879.
- Witthoefft, C. H., St. Louis, Mo., assignor to Weber Company, Chicago, Ill. Mold for use in erecting concrete walls. No. 916,084; Mar. 23; Sp. p. 4960; Gaz. vol. 140; p. 879.
- Wittig, H. F., assignor to J. Schellenberger, Baltimore, Md. Attachment for talking-machines. No. 910,103; Jan. 19; Sp. p. 3364; Gaz. vol. 138; p. 618.
- Wittig, H. F., assignor of one-half to G. W. E. Brooks, Baltimore, Md. Box-opener. No. 933,410; Sept. 7; Sp. p. 845; Gaz. vol. 146; p. 122.
- Wittler, W. (See Kindig and Wittler.)
- Wittliff, J., Minneapolis, Minn. Core. No. 915,817; Mar. 23; Sp. p. 4463; Gaz. vol. 140; p. 792.
- Wittmann, H., Cincinnati, Ohio. Shade-bracket. No. 928,829; July 20; Sp. p. 4398; Gaz. vol. 144; p. 766.
- Wittmer, G. X., Pittsburg, Pa. Apparatus for turning bolts, screws, &c. No. 918,632; Apr. 20; Sp. p. 3435; Gaz. vol. 141; p. 619.
- Wittner, J., Hoboken, N. J. Hame. No. 914,689; Mar. 9; Sp. p. 2184; Gaz. vol. 140; p. 367.
- Wittner, J., Hoboken, N. J. Trace attachment. No. 922,373; May 18; Sp. p. 4668; Gaz. vol. 142; p. 810.
- Wittstein, C. T., Newark, N. J. Neck-chain. No. 910,346; Jan. 19; Sp. p. 3901; Gaz. vol. 138; p. 702.
- Wittstein, C. T., Newark, N. J. Collar-supporter. No. 919,800; Apr. 27; Sp. p. 6063; Gaz. vol. 141; p. 1043.
- Wittstein, C. T., Newark, N. J. Collar-supporter. No. 919,801; Apr. 27; Sp. p. 6064; Gaz. vol. 141; p. 1043.
- Wittstock, F., Berlin, Germany. Producing mosaic or marble paper. No. 915,145; Mar. 16; Sp. p. 3096; Gaz. vol. 140; p. 543.
- Wittwer, J. G., Great Falls, Mont. Railway-tie. No. 911,279; Feb. 2; Sp. p. 512; Gaz. vol. 139; p. 88.
- Witty, G. (See Shamiab and Witty.)
- Witty, J. S., *et al.* (See Dickson, G. B., assignor.)
- Witty, T. B., *et al.* (See Dickson, G. B., assignor.)
- Witzal, A., Scranton, Pa. Combined shade-bracket and lace-curtain fixture. No. 919,988; Apr. 27; Sp. p. 6462; Gaz. vol. 141; p. 1104.
- Witzel, C. J., New York, N. Y. Wire mattress. No. 921,494; May 11; Sp. p. 2876; Gaz. vol. 142; p. 495.
- Witzenmann, E., Pforzheim, Germany. Metallic hose. No. 910,104; Jan. 19; Sp. p. 3365; Gaz. vol. 138; p. 618.
- Witzenmann, E., Pforzheim, Germany. Compensator for pipes. No. 916,907; Mar. 30; Sp. p. 6563; Gaz. vol. 140; p. 1170.
- Witzenmann, E., Pforzheim, Germany. Connecting-hose for railway-cars. No. 933,516; Sept. 7; Sp. p. 1152; Gaz. vol. 146; p. 166.
- Wixcel, S. M., Sioux City, Iowa. Hay-loader. No. 931,109; Aug. 17; Sp. p. 3126; Gaz. vol. 145; p. 548.

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- Wixford, J. F., assignor to Wixford Water Patents Company, St. Louis, Mo. Water-purification system. No. 917,918; Apr. 13; Sp. p. 1936; Gaz. vol. 141; p. 351.
- Wixford Water Patents Company. (See Wixford, J. F., assignor.)
- Wixon, H., Chicago, Ill. Device for displaying ribbons and like articles. No. 911,280; Feb. 2; Sp. p. 513; Gaz. vol. 139; p. 88.
- Wizard Patent Developing Company. (See Irving, J. A., assignor.)
- Wladika, J. (See Redlich and Wladika.)
- Wm. B. Scaife & Sons Company. (See Greth, J. C. W., assignor.)
- Wm. B. Scaife & Sons Company. (See Newman, M. F., assignor.)
- Wm. Bros Boiler & Manufacturing Co. (See Ashenden, E. W., assignor.)
- Wm. Filene's Sons Company. (See Whittredge, C. D., assignor.)
- Wm. J. Oliver Manufacturing Company. (See Rossetter, J. R., assignor.)
- Wm. L. Gilbert Clock Company. (See Alford, F. R., assignor.)
- Wm. Wrigley, Jr., & Co. (See Langschmidt, E., assignor.)
- Wobensmith, J. C. (See Duhring and Wobensmith.)
- Woburn Machine Company. (See Marrinan, T. H., assignor.)
- Wobus, A. (See Holm and Wobus.)
- Woher, J., *et al.* (See Bretney, H. R., assignor.)
- Woher, W. F., R. L. Lemon, and L. H. Mortsoff, Indianapolis, Ind. Safety electrical circuit-breaker. No. 922,654; May 25; Sp. p. 5267; Gaz. vol. 142; p. 931.
- Woher, W. F., R. L. Lemon, and L. H. Mortsoff, Indianapolis, Ind. Safety electrical-circuit breaker. No. 940,910; Nov. 23; Sp. p. 5449; Gaz. vol. 148; p. 923.
- Woher, W. F., R. L. Lemon, and L. H. Mortsoff, Indianapolis, Ind. Safety electrical-circuit breaker. No. 941,002; Nov. 23; Sp. p. 5648; Gaz. vol. 148; p. 955.
- Wodzinski, C. W., Menominee, Mich. Car-truck. No. 941,293; Nov. 23; Sp. p. 6288; Gaz. vol. 148; p. 1052.
- Wodzinski, O. W., Milwaukee, Wis. Sad-iron. No. 942,026; Nov. 30; Sp. p. 7826; Gaz. vol. 148; p. 1318.
- Woelfel, M. S., South Bend, Ind., assignor to C. T. Fluegel. Composition of matter and tempering same. No. 916,244; Mar. 23; Sp. p. 5265; Gaz. vol. 140; p. 930.
- Woerner, L., St. Louis, Mo. Baffle for water-tube boilers. No. 911,281; Feb. 2; Sp. p. 514; Gaz. vol. 139; p. 88.
- Woerner, L. C., Westend, near Berlin, assignor to Ludw. Loewe & Company, Berlin, Germany. Expansion-reamer. No. 937,404; Oct. 19; Sp. p. 3778; Gaz. vol. 147; p. 645.
- Woerner, M., Leipzig, Germany. Construction of hollow bodies. No. 930,012; Aug. 3; Sp. p. 825; Gaz. vol. 145; p. 133.
- Woerner, R., Mannheim, Germany. Apparatus for pressing cigars. No. 917,984; Apr. 13; Sp. p. 2070; Gaz. vol. 141; p. 374.
- Woerner, R., Mannheim, Germany. Cigar-pressing box. No. 944,758; Dec. 28; Sp. p. 5892; Gaz. vol. 149; p. 1015.
- Woerner, W. H., Omaha, Neb. Plant-support. No. 915,146; Mar. 16; Sp. p. 3098; Gaz. vol. 140; p. 543.
- Woerth, E., Brooklyn, N. Y. Amusement apparatus. No. 909,500; Jan. 12; Sp. p. 2159; Gaz. vol. 138; p. 383.
- Woesley, J. F. (See Woesley, J. F. and J. F.)
- Woesley, J. F. and J. F., Providence, R. I. Fishing apparatus. No. 935,877; Oct. 5; Sp. p. 599; Gaz. vol. 147; p. 86.
- Woglum, J. I. (See Loomis and Woglum.)
- Wohl, M. J. (See Hertzberg and Wohl.)
- Wohl, M. J., *et al.*, trustees. (See Low, A. A., assignor.)
- Wohl, M. J., *et al.*, trustees. (See Wohl and Hertzberg, assignors.)
- Wohl, M. J., New York, and A. A. Low, Horseshoe, assignors to Economy Electric Company, Brooklyn, N. Y. Electrically-heated tool. No. 912,765; Feb. 16; Sp. p. 3645; Gaz. vol. 139; p. 643.
- Wohl, M. J., New York, and H. Hertzberg, Brooklyn, assignors to A. A. Low, Horseshoe, M. J. Wohl, New York, and H. Hertzberg, Brooklyn, N. Y., trustees. Electromagnet-coil construction. No. 931,540; Aug. 17; Sp. p. 4021; Gaz. vol. 145; p. 693.
- Wohl, M. J., New York, and H. Hertzberg, Brooklyn, assignors to A. A. Low, Horseshoe, M. J. Wohl, New York, and H. Hertzberg, Brooklyn, N. Y., trustees. Electromagnet-coil construction. No. 931,541; Aug. 17; Sp. p. 4023; Gaz. vol. 145; p. 694.
- Wohl, M. J., New York, and H. Hertzberg, Brooklyn, assignors to A. A. Low, Horseshoe, M. J. Wohl, New York, and H. Hertzberg, Brooklyn, N. Y., trustees. Electromagnet-coil construction. No. 931,542; Aug. 17; Sp. p. 4024; Gaz. vol. 145; p. 694.
- Wohl, M. J., and H. Hertzberg, New York, assignors to A. A. Low, Horseshoe, N. Y. Regulator for internal-combustion engines. No. 943,726; Dec. 21; Sp. p. 3664; Gaz. vol. 149; p. 636.
- Wohlmeier, R., Vienna, Austria-Hungary. Game device. No. 930,711; Aug. 10; Sp. p. 2237; Gaz. vol. 145; p. 389.
- Wohlreb, P. B., Racine, Wis. Hook-locking device. No. 917,508; Apr. 6; Sp. p. 1076; Gaz. vol. 141; p. 188.
- Woitnyek, A., La Salle, Ill. Clothes-line reel. No. 908,927; Jan. 5; Sp. p. 1020; Gaz. vol. 138; p. 164.
- Wojan, R., New York, N. Y. Tobacco-pipe. No. 935,950; Oct. 5; Sp. p. 744; Gaz. vol. 147; p. 110.
- Wokurka, W., Cincinnati, Ohio. Bedstead. No. 933,810; Sept. 14; Sp. p. 1723; Gaz. vol. 146; p. 286.
- Wolcott, A. H., Winthrop, assignor, by mesne assignments, to John L. Whiting-J. J. Adams Co., Boston, Mass. Brush. No. 909,501; Jan. 12; Sp. p. 2160; Gaz. vol. 138; p. 383.
- Wolcott, C. A., *et al.* (See Wiest, J. H., assignor.)
- Wolcott, C. R., McLouth, Kans. Rotary motor. No. 925,149; June 15; Sp. p. 4372; Gaz. vol. 143; p. 746.
- Wolcott, H. R. (See Merryman, W. F., assignor.)
- Wolcott, H. W. (See Murray, W. J., assignor.)
- Wolcott, J. A., and T. C. Schwartz, Wyandotte, Mich. Valve. No. 913,866; Mar. 2; Sp. p. 419; Gaz. vol. 140; p. 68.
- Wolcott, J. B. (See Bees and Wolcott.)
- Wolcott, V. A., Schenectady, N. Y., assignor to General Electric Company. Acceleration-controlling device. No. 928,013; July 13; Sp. p. 2720; Gaz. vol. 144; p. 464.
- Wold, C. O., Minneapolis, Minn. Culvert-pipe. No. 912,638; Feb. 16; Sp. p. 3338; Gaz. vol. 139; p. 599.
- Wold, C. O., Minneapolis, Minn. Grading-machine. No. 918,633; Apr. 20; Sp. p. 3437; Gaz. vol. 141; p. 620.
- Wold, O. C., Chicago, Ill. Air-brush. No. 910,341; Jan. 19; Sp. p. 3902; Gaz. vol. 138; p. 702.
- Wold, S., Estevan, Saskatchewan, Canada. Trace-carrier. No. 913,601; Feb. 23; Sp. p. 5331; Gaz. vol. 139; p. 944.
- Woldridge, F. S., Brooklyn, N. Y. Display-cabinet. No. 927,625; July 13; Sp. p. 1903; Gaz. vol. 144; p. 337.
- Wolever, F. H., assignor to Illinois Pneumatic Transmission Co., Chicago, Ill. Automatic cut-off for pneumatic-despatch-tube systems. No. 929,909; Aug. 3; Sp. p. 617; Gaz. vol. 145; p. 97.
- Wolever, F. H., assignor of one-half to S. Feist, Chicago, Ill., and one-half to Illinois Pneumatic Transmission Co. Pneumatic-despatch tube system. No. 943,329; Dec. 14; Sp. p. 2784; Gaz. vol. 149; p. 469.
- Wolf, A. C., New York, N. Y., assignor to A. T. Prescott, East Orange, N. J. Amusement apparatus. No. 942,230; Dec. 7; Sp. p. 435; Gaz. vol. 149; p. 67.
- Wolf, A. M., New York, N. Y. Speed-controlling mechanism. No. 928,727; July 20; Sp. p. 4200; Gaz. vol. 144; p. 732.
- Wolf, A. M., New York, N. Y. Change-speed gearing. No. 933,870; Sept. 14; Sp. p. 1851; Gaz. vol. 146; p. 306.
- Wolf, A. M., New York, N. Y. Valve-gear. No. 938,360; Oct. 26; Sp. p. 5806; Gaz. vol. 147; p. 985.
- Wolf, A. Q., assignor to Wolf Machine Company, Dayton, Ohio. Shaft-hanger. No. 915,645; Mar. 16; Sp. p. 4107; Gaz. vol. 140; p. 710.
- Wolf, C. W., Lima, Ohio. Combination megaphone and horn. No. 914,472; Mar. 9; Sp. p. 1727; Gaz. vol. 140; p. 296.
- Wolf Company. (See Halstead, J. W., assignor.)
- Wolf Company. (See Wolf, H. G., assignor.)
- Wolf, E. E., Springfield, Ohio, assignor, by mesne assignments, to Empire Voting Machine Company, Rochester, N. Y. Voting-machine. No. 942,991; Dec. 14; Sp. p. 2060; Gaz. vol. 149; p. 357.
- Wolf Electrical Promoting Company. (See Meyer, H. A., assignor.)
- Wolf, F., New York, N. Y. Automatic railway-switch. No. 911,190; Feb. 2; Sp. p. 328; Gaz. vol. 139; p. 58.
- Wolf, F., New York, N. Y. Collision-preventing device for railroads. No. 912,346; Feb. 16; Sp. p. 2733; Gaz. vol. 139; p. 498.
- Wolf, F., New York, N. Y. Garment-rack. No. 922,991; May 25; Sp. p. 5960; Gaz. vol. 142; p. 1040.
- Wolf, F., New York, N. Y. Garment-rack. No. 928,728; July 20; Sp. p. 4202; Gaz. vol. 144; p. 732.
- Wolf, F., New York, N. Y. Support for garment-hangers. No. 937,497; Oct. 19; Sp. p. 3984; Gaz. vol. 147; p. 676.
- Wolf, F. E., Klein-Glienicke, near Potsdam, Germany. Fluid-turbine. No. 914,625; Mar. 9; Sp. p. 2035; Gaz. vol. 140; p. 346.
- Wolf, F. J., Brooklyn, N. Y. Mechanism for operating draft-controlling means and other devices. No. 935,719; Oct. 5; Sp. p. 202; Gaz. vol. 147; p. 32.
- Wolf, G. N., Anderson, Ind. Cream-separator. No. 935,183; Sept. 28; Sp. p. 4443; Gaz. vol. 146; p. 791.
- Wolf, H. G., assignor to Wolf Company, Chambersburg, Pa. Bushing for pulleys, gears, and the like. No. 941,602; Nov. 30; Sp. p. 6940; Gaz. vol. 148; p. 1174.
- Wolf, J., Cologne, Germany. Mold for machines for making hollow glassware. No. 922,071; May 18; Sp. p. 4070; Gaz. vol. 142; p. 712.
- Wolf, L., Dübendorf, Switzerland. Apparatus for treating distillation-gases. No. 909,125; Jan. 5; Sp. p. 1429; Gaz. vol. 138; p. 228.
- Wolf, L., Boston, Mass. Liquid gas suitable for illuminating and heating purposes and making said gas. No. 928,729; July 20; Sp. p. 4204; Gaz. vol. 144; p. 733.



*Alphabetical list of patentees—Continued.*

- Wolf, M. D., Brookville, Ohio. Hammock-supporting frame. No. 935,445; Sept. 28; Sp. p. 4961; Gaz. vol. 146; p. 876.
- Wolf Machine Company. (See Wolf, A. Q., assignor.)
- Wolf, R., St. Louis, Mo. Snow-shovel. No. 925,789; June 22; Sp. p. 5665; Gaz. vol. 143; p. 983.
- Wolf, R. D., Peru, Ind. Clothes-support for ironing-boards. No. 930,712; Aug. 10; Sp. p. 2239; Gaz. vol. 145; p. 389.
- Wolf, Sayer & Heller. (See Heller, I., assignor.)
- Wolf, W. K., Brownstown, Pa. Loss-preventing device. No. 942,695; Dec. 7; Sp. p. 1368; Gaz. vol. 149; p. 225.
- Wolf, W. R., Burlington, Iowa. Cabinet. No. 924,027; June 8; Sp. p. 2032; Gaz. vol. 143; p. 337.
- Wolfe, O. A., and W. H. Steinmetz, Van Wert, Ohio. Shade and curtain-pole support. No. 910,625; Jan. 26; Sp. p. 4509; Gaz. vol. 138; p. 822.
- Wolfe, C. J., Hummelstown, Pa. Door-operating mechanism. No. 917,230; Apr. 6; Sp. p. 547; Gaz. vol. 141; p. 96.
- Wolfe, R., Denver, Colo. Wheeled vehicle. No. 944,645; Dec. 28; Sp. p. 5632; Gaz. vol. 149; p. 977.
- Wolfe, S. C., Angola, Ind. Tire-protector anchor. No. 938,537; Nov. 2; Sp. p. 220; Gaz. vol. 148; p. 32.
- Wolfe, W. M., Milwaukee, Wis. Shirt. No. 937,498; Oct. 19; Sp. p. 3988; Gaz. vol. 147; p. 677.
- Wolfenden, C., Minneapolis, Minn. Ash-sifter. No. 938,103; Oct. 26; Sp. p. 5231; Gaz. vol. 147; p. 897.
- Wolfensberger, A., Milwaukee, Wis. Bottle-rinsing machine. No. 934,870; Sept. 21; Sp. p. 3807; Gaz. vol. 146; p. 660.
- Wolfer, H. R., Springvalley, Ill. Muffin-pan. No. 924,209; June 8; Sp. p. 2456; Gaz. vol. 143; p. 398.
- Wolff, E., New York, N. Y. Toy drum. No. 913,796; Mar. 2; Sp. p. 254; Gaz. vol. 140; p. 42.
- Wolff, F. W., assignor to Selas-Gesellschaft mit beschränkter Haftung, Berlin, Germany. Manufacture of a mixture of gas and air for illuminating purposes. No. 935,444; Sept. 28; Sp. p. 4960; Gaz. vol. 146; p. 876.
- Wolff, F. W., assignor to Selas-Gesellschaft mit beschränkter Haftung, Berlin, Germany. Mechanism for the production of a constant mixture of gas and air. No. 937,016; Oct. 12; Sp. p. 2936; Gaz. vol. 147; p. 488.
- Wolff, H. (See Isler, Wolff, and Kacer.)
- Wolff, H. W., assignor to American Car & Foundry Company, St. Louis, Mo. Tank-car. No. 943,803; Dec. 21; Sp. p. 3812; Gaz. vol. 149; p. 663.
- Wolff, O. (See Rose and Wolff.)
- Wolff, R. H., New York, N. Y. Jar or receptacle. No. 943,585; Dec. 14; Sp. p. 3309; Gaz. vol. 149; p. 558.
- Wolff, W. (See Quandt and Wolff.)
- Wolfenstein, R. (See Boeters and Wolfenstein.)
- Wolfenstein, R. F., Berlin, assignor to P. Beiersdorf & Company, Hamburg, Germany. Manufacture of soaps containing peroxids. No. 917,828; Apr. 13; Sp. p. 1741; Gaz. vol. 141; p. 320.
- Wolfsohn, J. (See Wolfsohn, L. M., assignor.)
- Wolfsohn, L. M., assignor to J. Wolfsohn, New York, N. Y. Vehicle-wheel. No. 927,910; Oct. 26; Sp. p. 4818; Gaz. vol. 147; p. 832.
- Wolffgram, F. D., and E. Klausman, assignors to Sanitary Brush and Compound Company, Milwaukee, Wis. Brush. No. 938,735; Nov. 2; Sp. p. 616; Gaz. vol. 148; p. 97.
- Wolffgram, F. D., and E. Klausman, assignors to Sanitary Brush and Compound Company, Milwaukee, Wis. Sweeping compound. No. 939,369; Nov. 9; Sp. p. 2039; Gaz. vol. 148; p. 344.
- Wolfe, L., Prescott, Ariz. Ter. Concrete piling and production thereof. No. 910,252; Jan. 19; Sp. p. 3716; Gaz. vol. 138; p. 672.
- Wolfe, L., Prescott, Ariz. Ter. Dump-bucket. No. 910,253; Jan. 19; Sp. p. 3719; Gaz. vol. 138; p. 672.
- Wolfe, L., Prescott, Ariz. Ter. Wave-power. No. 910,439; Jan. 19; Sp. p. 4101; Gaz. vol. 138; p. 735.
- Wolford, C. H., Salem, Ohio. Hen's nest. No. 911,103; Feb. 2; Sp. p. 154; Gaz. vol. 139; p. 29.
- Wolfram, E. J., Salida, Colo. Cutter-bar. No. 941,400; Nov. 30; Sp. p. 6528; Gaz. vol. 148; p. 1109.
- Wolfsdorf, J. B., New York, N. Y. Machine for brushing felt. No. 915,525; Mar. 16; Sp. p. 3830; Gaz. vol. 140; p. 666.
- Wolfscholz, A., Wilmersdorf, Berlin, Germany. Consolidating loose soils, quicksand, &c. No. 935,081; Sept. 28; Sp. p. 4246; Gaz. vol. 146; p. 759.
- Wolfson, A. L., New York, N. Y. Turbo-blower. No. 910,036; Jan. 19; Sp. p. 3232; Gaz. vol. 138; p. 596.
- Wolhaupter, B., New York, N. Y. Composite rail-tie. No. 937,132; Oct. 19; Sp. p. 3176; Gaz. vol. 147; p. 557.
- Wolhaupter, B., New York, N. Y. Composite rail tie and fastening. No. 937,133; Oct. 19; Sp. p. 3180; Gaz. vol. 147; p. 557.
- Wolhaupter, B., assignor to Rail Joint Company, New York, N. Y. Rail-joint. No. 908,530; Jan. 5; Sp. p. 207; Gaz. vol. 138; p. 35.
- Wolhaupter, B., assignor to Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 920,801; May 4; Sp. p. 1436; Gaz. vol. 142; p. 232.
- Wolhaupter, B., New York, N. Y., assignor to Rail Joint Company. Insulating rail-joint. No. 922,742; May 25; Sp. p. 5450; Gaz. vol. 142; p. 959.
- Wolhaupter, B., and B. G. Braine, assignors to Rail Joint Company, New York, N. Y. Rail-joint pattern. No. 925,738; June 22; Sp. p. 5538; Gaz. vol. 143; p. 965.
- Wolhaupter, B., and L. F. Braine, assignors to Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 937,499; Oct. 19; Sp. p. 3981; Gaz. vol. 147; p. 677.
- Wolke, H., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 932,222; Aug. 24; Sp. p. 5516; Gaz. vol. 145; p. 939.
- Wolke, H., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Gearing. No. 936,264; Oct. 5; Sp. p. 1362; Gaz. vol. 147; p. 210.
- Wolke, H., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 936,268; Oct. 5; Sp. p. 1372; Gaz. vol. 147; p. 211.
- Wolke, H., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 936,269; Oct. 5; Sp. p. 1374; Gaz. vol. 147; p. 212.
- Wolke, H., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Feeding mechanism for phonographs. No. 936,274; Oct. 5; Sp. p. 1384; Gaz. vol. 147; p. 214.
- Wolkenstein, A., Vienna, Austria-Hungary. Condiment-holder. No. 934,493; Sept. 21; Sp. p. 3072; Gaz. vol. 146; p. 535.
- Woll, A. (See Woll, J. and A.)
- Woll, J. and A., Duquesne, Pa. Propeller. No. 929,529; July 27; Sp. p. 5834; Gaz. vol. 144; p. 1025.
- Woll, P., Jr. (See Scott, W. R., assignor.)
- Wollam, E. W., New York, N. Y. Picture-lifter. No. 909,729; Jan. 12; Sp. p. 2620; Gaz. vol. 138; p. 463.
- Wollé, C. E., Burnham, Pa. Manufacture of car-wheels. No. 922,655; May 25; Sp. p. 5270; Gaz. vol. 142; p. 931.
- Wollé, J. A. (See Budd and Wollé.)
- Wollner, A., assignor to G. Gilchrist, New York, N. Y. Fastener for barrel-heads and the like. No. 916,819; Mar. 30; Sp. p. 6382; Gaz. vol. 140; p. 1141.
- Wollner, B., Brooklyn, and J. B. Elsemann, New York, N. Y. Hat-body and making same. No. 924,408; June 8; Sp. p. 2845; Gaz. vol. 143; p. 465.
- Wolman, K. H., Idaweiche, near Oppeln, Germany, assignor to M. Barschall, New York, N. Y. Liquor for impregnating wood. No. 936,070; Oct. 5; Sp. p. 996; Gaz. vol. 147; p. 150.
- Wolman, K. H., and B. Diamond, Idaweiche, Oberschlesien, Germany, assignors to M. Barschall, Nice-Cimiez, France. Preserving composition for fibrous material. No. 934,871; Sept. 21; Sp. p. 3809; Gaz. vol. 146; p. 661.
- Wolman, L., assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 935,878; Oct. 5; Sp. p. 600; Gaz. vol. 147; p. 86.
- Wolpert, S. (See Wurmfeld and Wolpert.)
- Wolsey, G., and L. Fussey, assignors to J. Murray, Alpena, Mich. Blasting-cartridge. No. 939,886; Nov. 9; Sp. p. 3153; Gaz. vol. 148; p. 520.
- Wolstenholme, R. (See Lea, E. S., assignor.)
- Wolverine Brass Works. (See McBee, R., assignor.)
- Wolverton, H. A., W. E. Pixley, and C. W. Derrickson, Albany, Ind. Horse-collar fastener. No. 930,448; Aug. 10; Sp. p. 1658; Gaz. vol. 145; p. 300.
- Womelsdorf, G. H., Philadelphia, Pa. Ring for jar-closures. No. 937,500; Oct. 19; Sp. p. 3994; Gaz. vol. 147; p. 677.
- Wonderlich, H., Providence, R. I. Sad-iron. No. 911,795; Feb. 9; Sp. p. 1510; Gaz. vol. 139; p. 282.
- Wonderlich, H., Providence, R. I. Sad-iron. No. 912,222; Feb. 9; Sp. p. 2421; Gaz. vol. 139; p. 418.
- Wonner, W. W., York, assignor to one-half to M. E. Kunkel, Rossville, Pa. Electric-arc steam-generator. No. 915,526; Mar. 16; Sp. p. 3832; Gaz. vol. 140; p. 667.
- Wood, A. A., Atlanta, Ga. Belt-shifting mechanism. No. 938,931; Nov. 2; Sp. p. 1059; Gaz. vol. 148; p. 168.
- Wood, A. E., Charleston, W. Va. Dust-preventive attachment for coal-cutting machines. No. 908,928; Jan. 5; Sp. p. 1021; Gaz. vol. 138; p. 164.
- Wood, A. H. (See Angel, J. E., assignor.)
- Wood, A. L., et al. (See Larouette, H. P., assignor.)
- Wood, A. L., Jacksonville, Ill. Electric-light-controlling device. No. 929,069; July 27; Sp. p. 4895; Gaz. vol. 144; p. 873.
- Wood Airmoter Co. (See Wood, D. B., assignor.)

*Alphabetical list of patentees—Continued.*

- Wood, B. B., Helena, Mont. Wire-fence tool. No. 919,989; Apr. 27; Sp. p. 6463; Gaz. vol. 141; p. 1104.
- Wood, C. D., assignor of one-half to N. H. Myers, Kents Store, Va. Door-check. No. 932,933; Aug. 31; Sp. p. 6972; Gaz. vol. 145; p. 1197.
- Wood, C. L., Winthrop, Mass. Toy cannon. No. 936,689; Oct. 12; Sp. p. 2297; Gaz. vol. 147; p. 381.
- Wood, D. B., assignor to Wood Airmotor Co., Almyra, Ark. Air-motor. No. 910,342; Jan. 19; Sp. p. 3906; Gaz. vol. 138; p. 702.
- Wood, E. C., Somerville, F. M. Durkee, Newton, W. F. Kelley and J. B. Millet, Boston, Mass., assignors to Submarine Signal Company, Waterville, Me. Submarine signaling apparatus. No. 921,326; May 11; Sp. p. 2530; Gaz. vol. 142; p. 439.
- Wood, E. E., Jackson, Mich. Metal-working machine. No. 916,085; Mar. 23; Sp. p. 4964; Gaz. vol. 140; p. 879.
- Wood, E. H., assignor to Anchor Spring and Bedding Company, Nashville, Tenn. Spring. No. 936,971; Oct. 12; Sp. p. 2840; Gaz. vol. 147; p. 473.
- Wood, E. S. (See Draper and Wood.)
- Wood, E. S. (See Northrop and Wood.)
- Wood, F. A., Otsego, Mich. Pail-support. No. 930,824; Aug. 10; Sp. p. 2464; Gaz. vol. 145; p. 427.
- Wood, F. J., assignor to Marx & Rawolle, New York, N. Y. Distilling glycerin. No. 910,440; Jan. 19; Sp. p. 4104; Gaz. vol. 138; p. 736.
- Wood, F. T., Lidgerwood, N. D. Whip-socket. No. 937,200; Oct. 19; Sp. p. 3326; Gaz. vol. 147; p. 578.
- Wood, F. W., Newport News, Va., assignor to C. and J. M. Cory, New York, N. Y. Contact-maker for helm-indicators. No. 914,626; Mar. 9; Sp. p. 2037; Gaz. vol. 140; p. 347.
- Wood, F. W., Newport News, Va., assignor to C. and J. M. Cory, New York, N. Y. Telephone system. No. 914,690; Mar. 9; Sp. p. 2185; Gaz. vol. 140; p. 367.
- Wood, F. W., Newport News, Va., assignor to C. and J. M. Cory, New York, N. Y. Time-controlled circuit-controlling mechanism. No. 933,217; Sept. 7; Sp. p. 417; Gaz. vol. 146; p. 65.
- Wood, F. W., Newport News, Va., assignor to C. Cory & Son, New York, N. Y. Danger-zone signal for turrets. No. 933,218; Sept. 7; Sp. p. 421; Gaz. vol. 146; p. 65.
- Wood, F. W., and J. T. New, Fornfelt, Mo. Fastening device for draw-bars and yokes. No. 937,402; Oct. 19; Sp. p. 3764; Gaz. vol. 147; p. 644.
- Wood, G. E., Southington, Conn. Tool-handle. No. 913,339; Feb. 23; Sp. p. 4777; Gaz. vol. 139; p. 855.
- Wood, G. E., Southington, Conn. Making hand-tools. No. 924,210; June 8; Sp. p. 2457; Gaz. vol. 143; p. 398.
- Wood, G. E., Southington, Conn. Manufacturing tools. No. 932,223; Aug. 24; Sp. p. 5518; Gaz. vol. 145; p. 939.
- Wood, G. E., Plantsville, Conn. Percussively-operated hand-tool. No. 913,340; Feb. 23; Sp. p. 4778; Gaz. vol. 139; p. 856.
- Wood, G. P., Peekskill, N. Y. Retaining or quay wall of plastic material, such as concrete, &c. No. 936,843; Oct. 12; Sp. p. 2593; Gaz. vol. 147; p. 433.
- Wood, G. W., St. Louis, Mo. Handle-connecting device for suit-cases. No. 928,619; July 20; Sp. p. 3990; Gaz. vol. 144; p. 696.
- Wood, H. A. W., assignor to Campbell Printing Press & Manufacturing Company, New York, N. Y. Stereotype-casting device. No. 932,225; Aug. 24; Sp. p. 5522; Gaz. vol. 145; p. 940.
- Wood, H. A. W., assignor to Campbell Printing Press & Mfg. Co., New York, N. Y. Combined perfecting or two-color printing-machine. No. 941,598; Nov. 30; Sp. p. 6930; Gaz. vol. 148; p. 1173.
- Wood, H. C. (See Spinasse, A. E., assignor.)
- Wood, H. E., Bloomfield, N. J., assignor to Tower & Lyon Company, New York, N. Y. Thumb-cuff. No. 929,910; Aug. 3; Sp. p. 622; Gaz. vol. 145; p. 98.
- Wood, H. E., Bloomfield, N. J., assignor to Tower & Lyon Company, New York, N. Y. Handcuff-lock. No. 930,013; Aug. 3; Sp. p. 826; Gaz. vol. 145; p. 133.
- Wood, H. E., Bloomfield, N. J., assignor to Tower & Lyon Company, New York, N. Y. Handcuff. No. 930,014; Aug. 3; Sp. p. 828; Gaz. vol. 145; p. 133.
- Wood, H. I., Schenectady, N. Y., assignor to General Electric Company. Vapor electric apparatus. No. 942,157; Dec. 7; Sp. p. 284; Gaz. vol. 149; p. 43.
- Wood, H. I., Schenectady, N. Y., assignor to General Electric Company. Vapor electric apparatus. No. 942,871; Dec. 7; Sp. p. 1752; Gaz. vol. 149; p. 283.
- Wood, H. K., Piqua, Ohio. Shovel-blade. No. 916,820; Mar. 30; Sp. p. 6383; Gaz. vol. 140; p. 1141.
- Wood, H. K., Hartford, Conn., assignor to A. H. Berry, New York, N. Y. Electric time-controller. No. 912,347; Feb. 16; Sp. p. 2738; Gaz. vol. 139; p. 499.
- Wood, H. M., Denver, Colo. Plane. No. 917,231; Apr. 6; Sp. p. 548; Gaz. vol. 141; p. 96.
- Wood, H. M., Los Angeles, Cal. Saw-clamp. No. 932,224; Aug. 24; Sp. p. 5520; Gaz. vol. 145; p. 940.
- Wood, J., Grand Island, Nebr. Attachment for self-propelled vehicles. No. 919,990; Apr. 27; Sp. p. 6465; Gaz. vol. 141; p. 1105.
- Wood, J., Noroton, Conn. Combined ventilator and smoke-consumer. No. 941,900; Nov. 30; Sp. p. 7593; Gaz. vol. 148; p. 1278.
- Wood, J., assignor of one-third to W. E. Brown and one-third to D. Provost, Ottawa, Ontario, Canada. Mail catching and delivering apparatus. No. 925,618; June 22; Sp. p. 5276; Gaz. vol. 143; p. 927.
- Wood, J., Jr., Conshohocken, Pa. Feed-water purifier. No. 932,660; Aug. 31; Sp. p. 6423; Gaz. vol. 145; p. 1108.
- Wood, J. C., Marsland, Nebr. Potato-planter. No. 915,527; Mar. 16; Sp. p. 3835; Gaz. vol. 140; p. 667.
- Wood, J. C., Mount Vernon, Wash. Trap. No. 928,352; July 20; Sp. p. 3458; Gaz. vol. 144; p. 610.
- Wood, J. H., *et al.* (See Bryant, R. F., assignor.)
- Wood, J. I., assignor of one-third to J. W. Wilson, Philadelphia, Pa. Manufacture of fibrous materials. No. 931,979; Aug. 24; Sp. p. 501, Gaz. vol. 145; p. 858.
- Wood, J. J., Fort Wayne, Ind. Edgewise-winding machine. No. 919,510; Apr. 27; Sp. p. 5498; Gaz. vol. 141; p. 945.
- Wood, J. J., Fort Wayne, Ind. Dynamo-electric machine. No. 919,511; Apr. 27; Sp. p. 5501; Gaz. vol. 141; p. 945.
- Wood, J. J., Fort Wayne, Ind. Coin-operated mechanism. No. 925,548; June 22; Sp. p. 5129; Gaz. vol. 143; p. 904.
- Wood, J. M., Kenton, Ohio. Adjustable caster. No. 935,289; Sept. 28; Sp. p. 4653; Gaz. vol. 146; p. 826.
- Wood, J. M., deceased, Kansas City, Mo.; S. B. Strother, administrator, assignor to K. G. Smith, Kansas City, Mo. Seismometer. No. 923,397; June 1; Sp. p. 655; Gaz. vol. 143; p. 95.
- Wood, J. R., Chicago, Ill. Placer-machine. No. 912,766; Feb. 16; Sp. p. 3647; Gaz. vol. 139; p. 643.
- Wood, J. S., Bristol, Tenn. Grate. No. 913,341; Feb. 23; Sp. p. 4779; Gaz. vol. 139; p. 856.
- Wood, J. W., Mobile, Ala. Carbureter. No. 920,511; May 4; Sp. p. 846; Gaz. vol. 142; p. 137.
- Wood, L. C., *et al.* (See Waddell, T. J., assignor.) (Reissue.)
- Wood, M. M., Schenectady, N. Y., assignor to General Electric Company. Deflector for electric fans. No. 910,760; Jan. 26; Sp. p. 4778; Gaz. vol. 138; p. 864.
- Wood, M. M., Berwyn, Ill., assignor to General Electric Company. Fuel-supply system. No. 924,869; June 15; Sp. p. 3815; Gaz. vol. 143; p. 652.
- Wood, P. S., Burton, Wash. Bread-roll. No. 943,586; Dec. 14; Sp. p. 3310; Gaz. vol. 149; p. 558.
- Wood, R., Bolton, England. Reciprocating hydraulic pump. No. 923,748; June 1; Sp. p. 1384; Gaz. vol. 143; p. 216.
- Wood, R. N., Point Richmond, assignor to E. R. Smith, Palo Alto, Cal. Air-lift. No. 932,934; Aug. 31; Sp. p. 6973; Gaz. vol. 145; p. 1197.
- Wood, S., Manchester, England. Corset. No. 929,179; July 27; Sp. p. 5124; Gaz. vol. 144; p. 911.
- Wood, S. A., assignor to United Electric Signal Company, Providence, R. I. Block-signaling apparatus. No. 939,370; Nov. 9; Sp. p. 2040; Gaz. vol. 148; p. 344.
- Wood, T. W., Anderson, Ind. Machine for forming glassware. No. 933,939; Sept. 14; Sp. p. 1987; Gaz. vol. 146; p. 327.
- Wood, V. A. (See Staggs, Tucker, and Wood.)
- Wood, W. A., and C. W. Kahrlerth, New York, N. Y. Fall-rope carrier. No. 944,118; Dec. 21; Sp. p. 4489; Gaz. vol. 149; p. 771.
- Wood, W. E., Peekskill, N. Y. Making bottom cleats on stoves. No. 910,254; Jan. 19; Sp. p. 3720; Gaz. vol. 138; p. 672.
- Wood, W. H. (See Haase, C. H., assignor.)
- Wood, W. H., Media, Pa. Metal railway-tie. No. 918,110; Apr. 13; Sp. p. 2342; Gaz. vol. 141; p. 419.
- Wood, W. P., assignor to Jenckes Spinning Company, Pawtucket, R. I. Spinning or twisting machine. No. 928,830; July 20; Sp. p. 4399; Gaz. vol. 144; p. 767.
- Wood, W. P., assignor to Jenckes Spinning Company, Pawtucket, R. I. Yarn. No. 928,831; July 20; Sp. p. 4402; Gaz. vol. 144; p. 767.
- Wood, W. R., assignor to Underfeed Stoker Company, Limited, London, England. Apparatus for heating air or other gases. No. 924,409; June 8; Sp. p. 2847; Gaz. vol. 143; p. 465.
- Wood, W. S. (See Rowlands, G., assignor.)
- Wood, W. W., Tacoma, Wash. Veneer-scoring mechanism. No. 915,147; Mar. 16; Sp. p. 3099; Gaz. vol. 140; p. 544.
- Woodard, H. F. (See Minzy, G. A., assignor.)
- Woodard, J. W., Washington, D. C. Clip for connecting temples and nose-pieces to lenses. No. 937,732; Oct. 19; Sp. p. 4442; Gaz. vol. 147; p. 754.
- Woodard, W. E. (See Dalton and Woodard.)
- Woodard, W. E., Schenectady, assignor to American Locomotive Company, New York, N. Y. Car-truck. No. 918,807; Apr. 20; Sp. p. 3834; Gaz. vol. 141; p. 678.
- Woodard, W. E., Schenectady, assignor to American Locomotive Company, New York, N. Y. Car-truck. No. 918,808; Apr. 20; Sp. p. 3836; Gaz. vol. 141; p. 678.



*Alphabetical list of patentees—Continued.*

- Woodard, W. E., Schenectady, assignor to American Locomotive Company, New York, N. Y. Car-truck. No. 918,809; Apr. 20; Sp. p. 3837; Gaz. vol. 141; p. 678.
- Woodard, W. E., Schenectady, assignor to American Locomotive Company, New York, N. Y. Spring and equalizer system for electric locomotives. No. 918,810; Apr. 20; Sp. p. 3838; Gaz. vol. 141; p. 678.
- Woodard, W. E., Schenectady, assignor to American Locomotive Company, New York, N. Y. Car-truck. No. 934,955; Sept. 21; Sp. p. 3978; Gaz. vol. 146; p. 691.
- Woodbridge, J. E. (See Chapman and Woodbridge.)
- Woodbridge, J. L., Philadelphia, Pa. System of electrical distribution. No. 919,670; Apr. 27; Sp. p. 5823; Gaz. vol. 141; p. 1000.
- Woodbridge, J. L., Philadelphia, Pa. Means for rectifying single-phase currents. No. 941,599; Nov. 30; Sp. p. 6935; Gaz. vol. 148; p. 1173.
- Woodbridge, J. L., Philadelphia, Pa. System of electrical distribution. No. 941,600; Nov. 30; Sp. p. 6936; Gaz. vol. 148; p. 1173.
- Woodbridge, J. L., Philadelphia, Pa. System of electrical distribution. No. 941,601; Nov. 30; Sp. p. 6938; Gaz. vol. 148; p. 1174.
- Woodbury, C. A., Chester, Pa., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Detonator. No. 939,371; Nov. 9; Sp. p. 2044; Gaz. vol. 148; p. 345.
- Woodbury, F. E., Milwaukee, Wis., and B. Harris and C. H. Benedict, Lake Linden, Mich.; said Harris assignor to said Woodbury and Benedict. Apparatus for treating ore. No. 914,002; Mar. 2; Sp. p. 731; Gaz. vol. 140; p. 116.
- Woodbury, H. P. (See Earnest, G. R., assignor.)
- Woodbury, M., Beverly, Mass. Slipper-package. No. 926,041; June 22; Sp. p. 6172; Gaz. vol. 143; p. 1056.
- Woodbury, S. S., Bradford, Pa. Tank-heater. No. 931,980; Aug. 24; Sp. p. 5012; Gaz. vol. 145; p. 858.
- Woodcock, L. H., Spokane, Wash. Display-rack. No. 910,105; Jan. 19; Sp. p. 3366; Gaz. vol. 138; p. 618.
- Wooden, E. M., assignor of one-half to R. R. Fogel, New York N. Y. Kinetoscope. No. 929,743; Aug. 3; Sp. p. 225; Gaz. vol. 145; p. 39.
- Woodford, W. H., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 923,749; June 1; Sp. p. 1388; Gaz. vol. 143; p. 216.
- Woodhead, F. (See Pickles and Woodhead.)
- Woodhead, F., Cheltenham, Pa. Pump. No. 911,929; Feb. 9; Sp. p. 1757; Gaz. vol. 139; p. 325.
- Woodhead, L. F., Roswell, N. Mex. Device for holding and dispensing pins. No. 909,270; Jan. 12; Sp. p. 1708; Gaz. vol. 138; p. 308.
- Woodhouse, B. F., Morris Run, Pa. Trace-fastener. No. 922,992; May 25; Sp. p. 5962; Gaz. vol. 142; p. 1040.
- Woodin, W. H. (See Ostrander, A. E., assignor.)
- Wooding, B. F., Denver, Colo. Lawn-sprinkler. No. 924,519; June 8; Sp. p. 3053; Gaz. vol. 143; p. 500.
- Woodland, F. O., Worcester, Mass. Label-supply mechanism. No. 917,509; Apr. 6; Sp. p. 1078; Gaz. vol. 141; p. 189.
- Woodland, F. O., Worcester, Mass. Wiper mechanism for labeling-machines. No. 918,242; Apr. 13; Sp. p. 2613; Gaz. vol. 141; p. 463.
- Woodland, F. O., Worcester, Mass. Label-affixing mechanism. No. 918,811; Apr. 20; Sp. p. 3840; Gaz. vol. 141; p. 679.
- Woodland, F. O., Worcester, Mass. Wiper for labeling-machines. No. 919,991; Apr. 27; Sp. p. 6466; Gaz. vol. 141; p. 1105.
- Woodland, F. O., Worcester, Mass. Labeling-machine. No. 937,403; Oct. 19; Sp. p. 3765; Gaz. vol. 147; p. 644.
- Woodland, F. O., Worcester, Mass. Labeling-machine. No. 938,807; Nov. 2; Sp. p. 769; Gaz. vol. 148; p. 124.
- Woodland, F. O., Worcester, Mass. Labeling-machine. No. 940,105; Nov. 16; Sp. p. 3684; Gaz. vol. 148; p. 628.
- Woodland, F. O., Worcester, Mass. Labeling-machine. No. 941,178; Nov. 23; Sp. p. 6034; Gaz. vol. 148; p. 1014.
- Woodman, E. L., Chicago, Ill. Initiation-step. No. 934,122; Sept. 14; Sp. p. 2354; Gaz. vol. 146; p. 387.
- Woodman, G. A. (See Gebhardt, F., assignor.)
- Woodman, G. A., Chicago, Ill. Brake-shoe. No. 909,271; Jan. 12; Sp. p. 1711; Gaz. vol. 138; p. 308.
- Woodman, G. A., Chicago, Ill. Car-axle bearing. No. 920,802; May 4; Sp. p. 1438; Gaz. vol. 142; p. 232.
- Woodman, G. A., assignor to Kirby Equipment Company, Chicago, Ill. Journal-box. No. 914,326; Mar. 2; Sp. p. 1429; Gaz. vol. 140; p. 221.
- Woodman, H., Joliet, Ill. Bag-holder. No. 942,231; Dec. 7; Sp. p. 439; Gaz. vol. 149; p. 67.
- Woodmansee, F., assignor of one-half to J. W. Porter and one-half to Electric Service Supplies Company, Chicago, Ill. Insulator-support. No. 927,701; July 13; Sp. p. 2084; Gaz. vol. 144; p. 362.
- Woodnutt, P. C., Port Washington, N. Y. Signal and tail light. No. 936,394; Oct. 12; Sp. p. 1655; Gaz. vol. 147; p. 281.
- Woodring, W. W. (See Scritchfield, A. J., assignor.)
- Woodrome, G. H. (See Dully and Woodrome.)
- Woodrow, O. B., Newton, Iowa. Driving mechanism. No. 921,195; May 11; Sp. p. 2248; Gaz. vol. 142; p. 395.
- Woodruff, A. C., Juntura, Oreg. Nut-lock. No. 938,932; Nov. 2; Sp. p. 1062; Gaz. vol. 148; p. 168.
- Woodruff, C. E., *et al.* (See Horner, S. E., assignor.)
- Woodruff Company. (See Woods, R. V., assignor.)
- Woodruff, E. N., Peoria, Ill. Condenser. No. 935,446; Sept. 28; Sp. p. 4963; Gaz. vol. 146; p. 877.
- Woodruff, F., assignor to H. C. Fry Glass Company, Rochester, Pa. Grinding-machine. No. 930,639; Aug. 10; Sp. p. 2095; Gaz. vol. 145; p. 365.
- Woodruff, J. B., Springfield, Tenn. Hypodermic syringe. No. 936,205; Oct. 5; Sp. p. 1257; Gaz. vol. 147; p. 190.
- Woodruff, R. T., and A. A. Macy, assignors of one-half to J. H. Blake and H. M. Roys, Wenatchee, Wash. Machine for holding fruit-boxes for nailing. No. 933,282; Sept. 7; Sp. p. 575; Gaz. vol. 146; p. 88.
- Woodruff, W. B., Cadiz, Ky. Recording-annunciator. No. 909,502; Jan. 12; Sp. p. 2162; Gaz. vol. 138; p. 383.
- Woodruff, W. B., Cadiz, Ky. Lumber-measuring device. No. 920,803; May 4; Sp. p. 1440; Gaz. vol. 142; p. 233.
- Woodruff, W. B., Cadiz, Ky. Lumber-measurer. No. 926,631; June 29; Sp. p. 7345; Gaz. vol. 143; p. 1296.
- Woods, A. N., Corvallis, Oreg. Reversing-gear. No. 913,445; Feb. 23; Sp. p. 4984; Gaz. vol. 139; p. 892.
- Woods, A. N., Corvallis, Oreg. Friction-clutch. No. 916,086; Mar. 23; Sp. p. 4967; Gaz. vol. 140; p. 880.
- Woods, E. S., Chicago, Ill. Antifriction-bearing for railway-cars and the like. No. 912,519; Feb. 16; Sp. p. 3091; Gaz. vol. 139; p. 556.
- Woods, H. A., Indianapolis, Ind. Cylindrical insulation. No. 932,080; Aug. 24; Sp. p. 5228; Gaz. vol. 145; p. 891.
- Woods, H. E., Chicago, Ill. Incandescent gas-lamp. No. 913,088; Feb. 23; Sp. p. 4258; Gaz. vol. 139; p. 772.
- Woods, H. E., Chicago, Ill. Shock-absorbing device for gas-mantle fixtures. No. 940,629; Nov. 16; Sp. p. 4841; Gaz. vol. 148; p. 806.
- Woods, H. E., Chicago, Ill., assignor of one-half to H. S. Woods. Phonograph attachment. No. 918,111; Apr. 13; Sp. p. 2343; Gaz. vol. 141; p. 419.
- Woods, H. S. (See Woods, H. E., assignor.)
- Woods, J., Maxwell, Tenn. Domestic boiler. No. 921,776; May 18; Sp. p. 3471; Gaz. vol. 142; p. 617.
- Woods, J., assignor of one-third to C. C. Fowler, Unity, and one-third to E. A. Carpenter, Brooks, Me. Folding crate. No. 925,408; June 15; Sp. p. 4842; Gaz. vol. 143; p. 828.
- Woods, J. W., Portland, Ark. Insecticide. No. 929,527; July 27; Sp. p. 5832; Gaz. vol. 144; p. 1025.
- Woods, L. G., Pittsburg, Pa. Reinforced truck-frame. No. 913,602; Feb. 23; Sp. p. 5332; Gaz. vol. 139; p. 944.
- Woods, L. G., Pittsburg, Pa. Railway journal-box and truck-frame. No. 933,809; Sept. 14; Sp. p. 1721; Gaz. vol. 146; p. 286.
- Woods, M., Carlton, and T. J. Gilbert, Brunswick, Victoria, Australia. Rail milling and dressing machine. No. 918,634; Apr. 20; Sp. p. 3439; Gaz. vol. 141; p. 620.
- Woods, M. S., Lufkin, Tex. Fire-escape. No. 935,447; Sept. 28; Sp. p. 4966; Gaz. vol. 146; p. 877.
- Woods, O. E. (See Prella, A. F. W., assignor.)
- Woods, R. V., assignor of one-half to Woodruff Company, San Francisco, Cal. Concrete building construction. No. 941,837; Nov. 30; Sp. p. 7467; Gaz. vol. 148; p. 1255.
- Woods, S. E., Lockwood, Okla. Corn-topper. No. 919,106; Apr. 20; Sp. p. 4435; Gaz. vol. 141; p. 775.
- Woods-Sherwood Company. (See Humphreys, A. E., assignor.)
- Woods, W. A., assignor to H. D. Freiermuth, Watsonville, Cal. Acetylene-gas generator. No. 933,607; Sept. 7; Sp. p. 1326; Gaz. vol. 146; p. 196.
- Woods, W. E., Griffin, Ind. Automatic wagon-brake. No. 913,342; Feb. 23; Sp. p. 4781; Gaz. vol. 139; p. 856.
- Woodside, A. T., Chillicothe, Ohio. Egg-poacher. No. 919,277; Apr. 20; Sp. p. 4963; Gaz. vol. 141; p. 832.
- Woodson, W. E. (See Self, M. D., assignor.)
- Woodward, A. S. (See Smith and Woodward.)
- Woodward, B. C. (See Gardner, A. M., assignor.)
- Woodward, C. E. W., Chicopee Falls, Mass. Pneumatic tire. No. 910,441; Jan. 19; Sp. p. 4106; Gaz. vol. 138; p. 736.
- Woodward, C. E. W., assignor to Fisk Rubber Company, Chicopee Falls, Mass. Automobile-tire. No. 943,505; Dec. 14; Sp. p. 3166; Gaz. vol. 149; p. 532.
- Woodward, E., Somerville, assignor, by mesne assignments, to T. G. Plant, Boston, Mass. Automatic leveler. No. 939,372; Nov. 9; Sp. p. 2045; Gaz. vol. 148; p. 345.
- Woodward, E. C. (See McMillen, J., assignor.)
- Woodward, E. C., Raleigh, N. C. Reinforcing-bar for concrete-work. No. 913,603; Feb. 23; Sp. p. 5334; Gaz. vol. 139; p. 944.
- Woodward, F. S., Brooklyn, N. Y., assignor to General Electric Company. Cable-threading head. No. 929,528; July 27; Sp. p. 5832; Gaz. vol. 144; p. 1025.
- Woodward, H., Knoxville, Tenn. Golf-ball-cleaning device. No. 928,832; July 20; Sp. p. 4404; Gaz. vol. 144; p. 767.
- Woodward, J. W., Rochester, N. Y. Trolley holding and retrieving device. No. 925,549; June 22; Sp. p. 5131; Gaz. vol. 143; p. 904.

*Alphabetical list of patentees—Continued.*

- Woodward, O., Montclair, N. J., assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 918,243; Apr. 13; Sp. p. 2617; Gaz. vol. 141; p. 464.
- Woodward, O., Montclair, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 941,120; Nov. 23; Sp. p. 5897; Gaz. vol. 148; p. 993.
- Woodward, O., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 918,938; Apr. 20; Sp. p. 4127; Gaz. vol. 141; p. 723.
- Woodward, O., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 927,626; July 13; Sp. p. 1904; Gaz. vol. 144; p. 337.
- Woodward, O., New York, assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 923,099; May 25; Sp. p. 6194; Gaz. vol. 142; p. 1074.
- Woodward, O., New York, assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 933,219; Sept. 7; Sp. p. 425; Gaz. vol. 146; p. 66.
- Woodward, R. G., Waukegan, assignor to Union Special Sewing Machine Co., Chicago, Ill. Overseaming sewing-machine. No. 920,804; May 4; Sp. p. 1441; Gaz. vol. 142; p. 233.
- Woodward, R. G., Waukegan, assignor to Union Special Sewing Machine Company, Chicago, Ill. Overseaming sewing mechanism and pull-off device therefor. No. 909,838; Jan. 12; Sp. p. 2817; Gaz. vol. 138; p. 497.
- Woodward, R. G., Waukegan, assignor to Union Special Sewing Machine Company, Chicago, Ill. Looper-thread pull-off for sewing-machines. No. 909,839; Jan. 12; Sp. p. 2821; Gaz. vol. 138; p. 497.
- Woodward, R. G., Waukegan, assignor to Union Special Sewing Machine Company, Chicago, Ill. Trimming mechanism for sewing-machines. No. 909,840; Jan. 12; Sp. p. 2822; Gaz. vol. 138; p. 498.
- Woodward, R. G., Waukegan, assignor to Union Special Sewing Machine Company, Chicago, Ill. Tension device for overseaming sewing-machines. No. 920,805; May 4; Sp. p. 1446; Gaz. vol. 142; p. 234.
- Woodward, R. G., Waukegan, assignor to Union Special Sewing Machine Co., Chicago, Ill. Sewing-machine. No. 923,750; June 1; Sp. p. 1390; Gaz. vol. 143; p. 217.
- Woodward, R. G., Waukegan, assignor to Union Special Sewing Machine Company, Chicago, Ill. Needle-guard for sewing-machines. No. 934,954; Sept. 21; Sp. p. 3976; Gaz. vol. 146; p. 690.
- Woodward, R. L., Jersey City, N. J. Telephone-transmitter attachment. No. 916,245; Mar. 23; Sp. p. 5266; Gaz. vol. 140; p. 930.
- Woodworth, C. C., Portland, Oreg. Incandescent lamp. No. 925,790; June 22; Sp. p. 5666; Gaz. vol. 143; p. 983.
- Woodworth, C. C., Portland, Oreg. Caloric circuit-breaker. No. 934,781; Sept. 21; Sp. p. 3624; Gaz. vol. 146; p. 632.
- Woodworth, C. E., assignor of one-half to A. F. Marsh, Cleveland, Ohio. Corset. No. 930,015; Aug. 3; Sp. p. 830; Gaz. vol. 145; p. 133.
- Woodworth, D. C., Chicago, Ill. Moving-picture machine. No. 917,697; Apr. 6; Sp. p. 1429; Gaz. vol. 141; p. 251.
- Woodworth, D. C., assignor to C. Laemmle, Chicago, Ill. Automatic light-shield for moving-picture machines. No. 922,743; May 25; Sp. p. 5453; Gaz. vol. 142; p. 960.
- Woodworth, E. B., *et al.* (See Dahlquist, J. L., assignor.)
- Woodworth, J. B., Fayetteville, assignor to A. H. Turnbull and W. H. Smith, Syracuse, N. Y. Faucet. No. 926,713; June 29; Sp. p. 7521; Gaz. vol. 143; p. 1323.
- Woodworth, R. B., Pittsburg, Pa. Driving-cap for sheet-piling. No. 914,098; Mar. 2; Sp. p. 954; Gaz. vol. 140; p. 150.
- Woodworth, R. B., Pittsburg, Pa. Wheel construction. No. 932,081; Aug. 24; Sp. p. 5229; Gaz. vol. 145; p. 892.
- Woody, J. C. (See Larkin and Woody.)
- Woody, M. P., *et al.* (See Dill and Marsh, assignors.)
- Woody, M. T., *et al.* (See Dill, H. E., assignor.)
- Wooley, H. E., assignor to Fairmont Machine Company, Fairmont, Minn. Governor for explosive-engines. No. 937,743; Oct. 19; Sp. p. 4465; Gaz. vol. 147; p. 757.
- Wooley, F. H., New York, N. Y. Sash-lock. No. 928,014; July 13; Sp. p. 2722; Gaz. vol. 144; p. 464.
- Wooley, J. W., Norfolk, Va. Sash-holder. No. 925,974; June 22; Sp. p. 6041; Gaz. vol. 143; p. 1044.
- Wooll, B., and T. W. Richards, New York, N. Y. Mouth and nose protector. No. 925,409; June 15; Sp. p. 4844; Gaz. vol. 143; p. 828.
- Wooll, S., and C. W. Rafferty, Lynch, Nebr. Condensing system. No. 932,226; Aug. 24; Sp. p. 5527; Gaz. vol. 145; p. 940.
- Woollatt, E., Chicago, assignor, by mesne assignments, of one-half to E. F. Dyrenforth, Evanston, Ill. Oven. No. 910,255; Jan. 19; Sp. p. 3721; Gaz. vol. 138; p. 672.
- Wooley, C., Waukege, Iowa. Automatic high-pressure acetylene-gas generator. No. 926,632; June 29; Sp. p. 7348; Gaz. vol. 143; p. 1296.
- Wooley, L. G., Lunatic, Kenton, Ohio; J. A. Morison, guardian. Caloric-engine. No. 925,975; June 22; Sp. p. 6042; Gaz. vol. 143; p. 1044.
- Woolliscroft, J. H., Hawarden, England. Brush-holder for electrical machines. No. 921,327; May 11; Sp. p. 2535; Gaz. vol. 142; p. 439.
- Woolner, A., Jr., and A. Lászlóffy, assignors to Woolner Distilling Company, Peoria, Ill. Making alcohol. No. 923,232; June 1; Sp. p. 230; Gaz. vol. 143; p. 38.
- Woolner Distilling Company. (See Woolner and Lászlóffy, assignors.)
- Woolsey, A. K. (See Woolsey, J. F., assignor.)
- Woolsey, J. F., assignor to A. K. Woolsey, Salina, Kans. Revolving register stand and cabinet. No. 936,281; Oct. 5; Sp. p. 1396; Gaz. vol. 147; p. 216.
- Woolsey, N., Los Angeles, Cal. Needle-plate for sewing-machines. No. 922,744; May 25; Sp. p. 5456; Gaz. vol. 142; p. 960.
- Woolson, H. H., Medford, Mass. Tailor's indicator. No. 909,046; Jan. 5; Sp. p. 1249; Gaz. vol. 138; p. 201.
- Woolverton, O. G. (See Watts, R. L., assignor.)
- Woolverton, O. G., Topeka, Kans. Hoof-pad. No. 914,003; Mar. 2; Sp. p. 735; Gaz. vol. 140; p. 116.
- Woop, W., Ossining, N. Y. Carriage-top. No. 938,933; Nov. 2; Sp. p. 1062; Gaz. vol. 148; p. 168.
- Wooster, C., assignor to Richmond Brothers Company, Newark, N. J. Button-setting machine. No. 909,047; Jan. 5; Sp. p. 1250; Gaz. vol. 138; p. 201.
- Wooster Machine Company. (See Porter, E. E., assignor.)
- Wooster, P. L., Yonkers, N. Y., assignor to Duryea Manufacturing Company. Belting. No. 933,011; Aug. 31; Sp. p. 7109; Gaz. vol. 145; p. 1222.
- Wooster, W. W., Berlin, N. J. Talking-machine. No. 939,781; Nov. 9; Sp. p. 2940; Gaz. vol. 148; p. 485.
- Wooten, F. F., Milford, Mich. Fishing-bob. No. 943,506; Dec. 14; Sp. p. 3169; Gaz. vol. 149; p. 533.
- Wooten, O., Pacific, Mo. Wagon-brake-rod connection. No. 911,355; Feb. 2; Sp. p. 654; Gaz. vol. 139; p. 111.
- Wootton, W. S., Roanoke, Va. Shirt-suspensory. No. 924,870; June 15; Sp. p. 3817; Gaz. vol. 143; p. 652.
- Worcester, A., New York, N. Y. Spring-winding tool. No. 922,656; May 25; Sp. p. 5271; Gaz. vol. 142; p. 932.
- Worcester Brush & Scraper Company. (See Bemis, G. C., assignor.)
- Worcester, J. S., Newark, N. J. Garden hoe and weeder. No. 924,124; June 8; Sp. p. 2207; Gaz. vol. 143; p. 368.
- Worcester Pressed Steel Company. (See Anderson, A. G., assignor.)
- Worcester, S. A., Victor, Colo. Pressure-governor. No. 930,257; Aug. 3; Sp. p. 1293; Gaz. vol. 145; p. 213.
- Worcester, W. W., Canton, Ohio. Wire fabric. No. 908,827; Jan. 5; Sp. p. 828; Gaz. vol. 138; p. 129.
- Worcester, W. W., Canton, Ohio. Letter-tray. No. 933,517; Sept. 7; Sp. p. 1153; Gaz. vol. 146; p. 166.
- Worcester, W. W., Canton, Ohio. Trap. No. 940,911; Nov. 23; Sp. p. 5453; Gaz. vol. 148; p. 924.
- Word Bros. (See Word, J. B. and W. W., assignors.)
- Word, J. B. and W. W., assignors to Word Bros., San Francisco, Cal. Coal-puncher-sharpening machine. No. 941,484; Nov. 30; Sp. p. 6709; Gaz. vol. 148; p. 1136.
- Word, W. W. (See Word, J. B. and W. W.)
- Worden, H. L., and H. O. Wurrner, Lorain, Ohio. Hot-water and steam boiler. No. 944,759; Dec. 28; Sp. p. 5895; Gaz. vol. 149; p. 1016.
- Worfel, H. E. (See Graham, E., assignor.)
- Work, I. E., St. Louis, Mo. Fare-register. No. 932,082; Aug. 24; Sp. p. 5231; Gaz. vol. 145; p. 892.
- Workley, E. W., Smethport, Pa. Seal-lock fastener for tags. No. 929,359; July 27; Sp. p. 5550; Gaz. vol. 144; p. 972.
- Workman, E., New Martinsville, W. Va. Folding table. No. 921,495; May 11; Sp. p. 2877; Gaz. vol. 142; p. 495.
- Workman, J. F., Harrisburg, Pa. Dirt-remover. No. 932,227; Aug. 24; Sp. p. 5528; Gaz. vol. 145; p. 941.
- Worley, G. D., assignor of one-half to J. D. Clark, Texarkana, Ark. Railway-switch. No. 941,220; Nov. 23; Sp. p. 6134; Gaz. vol. 148; p. 1023.
- Wormeley, P. L., Jr., Washington, D. C. Valve-controlling mechanism. No. 919,992; Apr. 27; Sp. p. 6468; Gaz. vol. 141; p. 1105.
- Worrell, C. P., Zanesville, Ohio. Target-holder. No. 937,733; Oct. 19; Sp. p. 4443; Gaz. vol. 147; p. 754.
- Worsey, C. H., Lynn, Mass., assignor to General Electric Company. Strainer for lubricating systems. No. 922,657; May 25; Sp. p. 5273; Gaz. vol. 142; p. 932.
- Worsham, H., New York, N. Y., assignor to National Wire Bound Box Company, South Bend, Ind. Seal for packages. No. 932,228; Aug. 24; Sp. p. 5530; Gaz. vol. 145; p. 941.
- Worst, E. J., Ashland, Ohio, assignor, by mesne assignments, to F. C. Dormont, Detroit, Mich. Atomizer. No. 915,646; Mar. 16; Sp. p. 4108; Gaz. vol. 140; p. 710.
- Worst, J. W., *et al.* (See Dunfe, J. W., assignor.)



*Alphabetical list of patentees—Continued.*

- Worth, J. S., *et al.* (See Worth and Harrison, assignors.)  
 Worth, J. S., assignor of one-half to W. P. Worth, Coatesville, Pa. Tube-trough for tube-mills. No. 931,544; Aug. 17; Sp. p. 4028; Gaz. vol. 145; p. 694.  
 Worth, J. S., and W. F. Harrison, assignors to J. S. and W. P. Worth, Coatesville, Pa. Rolling-mill tube-trough. No. 931,543; Aug. 17; Sp. p. 4026; Gaz. vol. 145; p. 694.  
 Worth, J. S., and W. F. Harrison, assignors to said Worth and W. P. Worth, Coatesville, Pa. Conveyer for tube and bar mills. No. 931,545; Aug. 17; Sp. p. 4031; Gaz. vol. 145; p. 695.  
 Worth, M. G., New York, N. Y. Head-rest. No. 933,811; Sept. 14; Sp. p. 1725; Gaz. vol. 146; p. 286.  
 Worth, P. W. (See Evans, T. C., assignor.)  
 Worth, R. A. (See Swasey, B. A., assignor.)  
 Worth, W. E., Wilmington, N. C., assignor to United States Cotton Seed Oil Company, Portland, Me. Cotton-seed-delinting machine. No. 936,282; Oct. 5; Sp. p. 1398; Gaz. vol. 147; p. 216.  
 Worth, W. P. (See Worth, J. S., assignor.)  
 Worth, W. P., *et al.* (See Worth and Harrison, assignors.)  
 Worthington, A. G., Duquoin, Ill. Scale. No. 935,571; Sept. 28; Sp. p. 5241; Gaz. vol. 146; p. 919.  
 Worthington, C., New York, N. Y. Transportation system. No. 936,395; Oct. 12; Sp. p. 1656; Gaz. vol. 147; p. 281.  
 Worthington, C. C., Dunnfield, N. J. Cooling system for internal-combustion engines. No. 917,232; Apr. 6; Sp. p. 552; Gaz. vol. 141; p. 96.  
 Worthington Company. (See Worthington, G. C., assignor.)  
 Worthington, F. A. (See Fay, J. L., assignor.)  
 Worthington, G. C., assignor to Worthington Company, Elyria, Ohio. Velocipede. No. 941,121; Nov. 23; Sp. p. 5902; Gaz. vol. 148; p. 994.  
 Worthington, H. W., Richfield, Kans. Nut-lock. No. 919,993; Apr. 27; Sp. p. 6470; Gaz. vol. 141; p. 1106.  
 Wortman, G. C., Wortman, Colo. Push-car. No. 908,635; Jan. 5; Sp. p. 431; Gaz. vol. 138; p. 69.  
 Wortman, G. C., Wortman, Colo. Dumping and loading car. No. 910,626; Jan. 26; Sp. p. 4510; Gaz. vol. 138; p. 822.  
 Wortman, G. C., Wortman, Colo. Push-car. No. 911,191; Feb. 2; Sp. p. 331; Gaz. vol. 139; p. 58.  
 Worzalla, J. S. (See Klimowicz and Worzalla.)  
 Wosinski, F., Brooklyn, N. Y. Numbering-machine. No. 943,210; Dec. 14; Sp. p. 2532; Gaz. vol. 149; p. 429.  
 Wotherspoon, I. S. (See Denison, F. W., assignor.)  
 Wottring, S. L., assignor to Wottring & Sutphen Company, Prospect, Ohio. Fire-extinguisher-bottle closure. No. 924,211; June 8; Sp. p. 2457; Gaz. vol. 143; p. 399.  
 Wottring & Sutphen Company. (See Wottring, S. L., assignor.)  
 Woude, F. V. D. (See Quäck and Woude.)  
 Wouters, A. H., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 917,510; Apr. 6; Sp. p. 1082; Gaz. vol. 141; p. 189.  
 Wouters, A. H., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. High-speed dynamo-electric machine. No. 925,976; June 22; Sp. p. 6043; Gaz. vol. 143; p. 1044.  
 Wouters, A. H., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Turbo-rotor. No. 932,083; Aug. 24; Sp. p. 5232; Gaz. vol. 145; p. 892.  
 Wouters, A. H., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Direct-current turbo-generator. No. 932,661; Aug. 31; Sp. p. 6425; Gaz. vol. 145; p. 1109.  
 Wouters, A. H., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Rotor construction. No. 932,662; Aug. 31; Sp. p. 6427; Gaz. vol. 145; p. 1109.  
 Wouters, A. H., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 933,220; Sept. 7; Sp. p. 431; Gaz. vol. 146; p. 66.  
 Wouters, A. H., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 934,256; Sept. 14; Sp. p. 2617; Gaz. vol. 146; p. 433.  
 Wouters, A. H., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Adjusting mechanism. No. 937,134; Oct. 19; Sp. p. 3184; Gaz. vol. 147; p. 558.  
 Wranischar, J. A., Lincoln, Ill. Squib-igniter. No. 921,049; May 11; Sp. p. 1939; Gaz. vol. 142; p. 344.  
 Wrather, W. W., Chicago, Ill. Ball. No. 942,952; Dec. 14; Sp. p. 1980; Gaz. vol. 149; p. 343.  
 Wratzke, A., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Cartridge. No. 911,796; Feb. 9; Sp. p. 1511; Gaz. vol. 139; p. 282.  
 Wratzke, A., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Impact-fuse. No. 913,343; Feb. 23; Sp. p. 4783; Gaz. vol. 139; p. 857.  
 Wratzke, A., Essen-Rüttenscheid, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Cartouche charge for guns. No. 923,922; June 8; Sp. p. 1824; Gaz. vol. 143; p. 304.  
 Wray, E. W., Chicago, Ill. Automatic scale. No. 910,627; Jan. 26; Sp. p. 4513; Gaz. vol. 138; p. 822.  
 Wray, J. H., assignor of one-half to J. F. Parrish, Mountain View, Alberta, Canada. Fire-escape. No. 933,685; Sept. 7; Sp. p. 1477; Gaz. vol. 146; p. 222.  
 Wray, P. F., assignor of one-half to F. G. Faulkner, Sedalia, Mo. Bench-vise. No. 923,098; May 25; Sp. p. 6192; Gaz. vol. 142; p. 1073.  
 Wren, D. J., deceased, Indianapolis, Ind.; M. E. Wren, administratrix. Ditching-machine. No. 910,256; Jan. 19; Sp. p. 3723; Gaz. vol. 138; p. 673.  
 Wren, M. E., administratrix. (See Wren, D. J.)  
 Wren, W. M. (See Louque, W. N., assignor.)  
 Wrenn, E. B. (See Douglass, J. S., assignor.)  
 Wrenshall, C. E., Owen Sound, Ontario, Canada. Folding box. No. 924,410; June 8; Sp. p. 2849; Gaz. vol. 143; p. 465.  
 Wridgway, C. G., New York, N. Y. Internal-combustion engine. No. 942,124; Dec. 7; Sp. p. 210; Gaz. vol. 149; p. 32.  
 Wright, A. E. (See Speed and Wright.)  
 Wright, A. F., Nineveh, Ind. Mail receiving and delivering apparatus. No. 908,532; Jan. 5; Sp. p. 211; Gaz. vol. 138; p. 36.  
 Wright, A. H., Quincy, Mass. Film-pack holder for cameras. No. 908,531; Jan. 5; Sp. p. 209; Gaz. vol. 138; p. 36.  
 Wright, B. (See Wright, J. C. and B.)  
 Wright, C., assignor of one-half to G. E. Wright, South Greensburg, Pa. Combined shade-roller and curtain-bracket. No. 938,934; Nov. 2; Sp. p. 1063; Gaz. vol. 148; p. 168.  
 Wright, C. A., Philadelphia, Pa. Brake for printing-presses. No. 943,507; Dec. 14; Sp. p. 3170; Gaz. vol. 149; p. 533.  
 Wright, C. A., Rosendale, Mo., assignor to Wright's Stock Feeder Co., Inc., Virden, Ill. Stock-feeder. No. 920,806; May 4; Sp. p. 1448; Gaz. vol. 142; p. 234.  
 Wright, C. D., Palestine, Ill. Rail joint and chair. No. 924,713; June 15; Sp. p. 3480; Gaz. vol. 143; p. 599.  
 Wright, C. D., Dallas, Tex. Oil-burner. No. 928,620; July 20; Sp. p. 3992; Gaz. vol. 144; p. 697.  
 Wright, C. H., and W. K. Monroe, assignors to Brown Hoisting Machinery Company, Cleveland, Ohio. Coke-loader. No. 931,110; Aug. 17; Sp. p. 3131; Gaz. vol. 145; p. 548.  
 Wright, C. H., and H. E. Scott, assignors to Brown Hoisting Machinery Company, Cleveland, Ohio. Car-dumping apparatus. No. 932,529; Aug. 31; Sp. p. 6124; Gaz. vol. 145; p. 1063.  
 Wright, C. M., assignor to A. L. Reed, Anderson, Ind. Cheese-cutter. No. 910,442; Jan. 19; Sp. p. 4100; Gaz. vol. 138; p. 736.  
 Wright, C. M., assignor of two-thirds to A. L. Reed and T. S. Gettle, Anderson, Ind. Cheese-cutter. No. 910,443; Jan. 19; Sp. p. 4112; Gaz. vol. 138; p. 737.  
 Wright, C. S., Kansas City, Mo. End-gate. No. 925,739; June 22; Sp. p. 5541; Gaz. vol. 143; p. 966.  
 Wright, D. W., New Orleans, La. Apparatus for feeding live stock. No. 933,940; Sept. 14; Sp. p. 1992; Gaz. vol. 146; p. 328.  
 Wright, E. (See Clay, P., assignor.)  
 Wright, E., London, England. Organ. No. 912,767; Feb. 16; Sp. p. 3650; Gaz. vol. 139; p. 643.  
 Wright, E. C., Brockton, Mass. Shoe-form. No. 944,471; Dec. 28; Sp. p. 5237; Gaz. vol. 149; p. 917.  
 Wright, E. C., Newport, Ky., assignor to Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 911,797; Feb. 9; Sp. p. 1513; Gaz. vol. 139; p. 282.  
 Wright, E. C., Newport, Ky., assignor to Bullock Electric Manufacturing Company. Dynamo-electric machine with distributed balancing-winding. No. 932,084; Aug. 24; Sp. p. 5235; Gaz. vol. 145; p. 893.  
 Wright, E. G. (See Gruenewald and Wright.)  
 Wright, F., Muskegon Heights, Mich. Gate. No. 917,233; Apr. 6; Sp. p. 553; Gaz. vol. 141; p. 97.  
 Wright, F. F. (See Roesch and Wright.)  
 Wright, F. G. (See Foley and Wright.)  
 Wright, F. K., Syracuse, N. Y. Lantern-frame. No. 920,889; May 4; Sp. p. 1627; Gaz. vol. 142; p. 260.  
 Wright, F. K., Syracuse, N. Y. Bail-holder for lanterns. No. 927,760; July 13; Sp. p. 2203; Gaz. vol. 144; p. 381.  
 Wright, F. K., Syracuse, assignor to R. E. Dietz Company, New York, N. Y. Tubular lantern. No. 911,282; Feb. 2; Sp. p. 515; Gaz. vol. 139; p. 88.  
 Wright, F. W. (See Conrad, Sander, and Wright.)

*Alphabetical list of patentees—Continued.*

- Wright, F. W. (See Wright, W. E., F. W., and J. T.)
- Wright, G., Pittsfield, Mass., assignor to General Electric Company. Electric switch. No. 919,994; Apr. 27; Sp. p. 6472; Gaz. vol. 141; p. 1106.
- Wright, G. C., Cleveland, Ohio. Show-case. No. 926,374; June 29; Sp. p. 6875; Gaz. vol. 143; p. 1209.
- Wright, G. E. (See Wright, C., assignor.)
- Wright, G. W. (See Landrum and Wright.)
- Wright, G. W., Lapel, Ind. Mixer and vaporizer. No. 922,374; May 18; Sp. p. 4668; Gaz. vol. 142; p. 810.
- Wright, H. B. (See Hill and Wright.)
- Wright, H. H., West Haven, Conn. Fountain-pen. No. 929,360; July 27; Sp. p. 5551; Gaz. vol. 144; p. 973.
- Wright, I. O., assignor to Farlow Draft Gear Company, Baltimore, Md. Draft and buffing gear for cars. No. 923,398; June 1; Sp. p. 659; Gaz. vol. 143; p. 96.
- Wright, J. B., Greensboro, N. C. Shutter-hinge. No. 917,698; Apr. 6; Sp. p. 1431; Gaz. vol. 141; p. 251.
- Wright, J. C., Seymour, Tex. Safety-dog trip for cotton-presses. No. 937,135; Oct. 19; Sp. p. 3188; Gaz. vol. 147; p. 558.
- Wright, J. C., Beeston, Leeds, and B. Wright, assignors of one-half to A. Parsons, Leeds, and J. A. Morton, Leicester, England. Machine for lasting boots and shoes. No. 919,995; Apr. 27; Sp. p. 6476; Gaz. vol. 141; p. 1106.
- Wright, J. D., Brooklyn, N. Y. Car-fender. No. 909,730; Jan. 12; Sp. p. 2622; Gaz. vol. 138; p. 463.
- Wright, J. D., assignor of one-half to L. S. Clark, Brooklyn, N. Y. Car-fender. No. 942,027; Nov. 30; Sp. p. 7827; Gaz. vol. 148; p. 1319.
- Wright, J. E. (See O'Malley, E. J., assignor.)
- Wright, J. E., Caliente, Nev. Bundle-tie. No. 915,922; Mar. 23; Sp. p. 4656; Gaz. vol. 140; p. 826.
- Wright, J. F., Philadelphia, Pa. Wrench. No. 910,890; Jan. 26; Sp. p. 5025; Gaz. vol. 138; p. 905.
- Wright, J. M., Keokuk, Iowa. Air-ship. No. 918,410; Apr. 13; Sp. p. 2931; Gaz. vol. 141; p. 517.
- Wright, J. P., Newark, Del. Die for shaping composition plates. No. 910,257; Jan. 19; Sp. p. 3727; Gaz. vol. 138; p. 673.
- Wright, J. T. (See Wright, W. E., F. W., and J. T.)
- Wright, J. V., *et al.* (See Weaver, J. W., assignor.)
- Wright, O. and W., Dayton, Ohio. Mechanism for flexing the rudder of a flying-machine or the like. No. 908,929; Jan. 5; Sp. p. 1022; Gaz. vol. 138; p. 164.
- Wright, O. D., assignor to Oneida Community, Limited, Oneida, N. Y. Animal-trap. No. 912,348; Feb. 16; Sp. p. 2742; Gaz. vol. 139; p. 499.
- Wright, P. D., *et al.* (See Brickey, C. P., assignor.)
- Wright, Q. B., Shenandoah, Iowa. Weighing device. No. 933,608; Sept. 7; Sp. p. 1329; Gaz. vol. 146; p. 196.
- Wright, R. (See Humphrey and Wright.)
- Wright, R. C., Philadelphia, Pa., and F. E. Stebbins, Washington, D. C. Construction of car-trucks. No. 944,119; Dec. 21; Sp. p. 4491; Gaz. vol. 149; p. 771.
- Wright, S. M., Memphis, Tenn. Metallic barrel. No. 924,520; June 8; Sp. p. 3055; Gaz. vol. 143; p. 500.
- Wright, S. R., assignor to Telegraph Signal Company, Rochester, N. Y. Selective signaling device for railways. No. 928,570; July 20; Sp. p. 3887; Gaz. vol. 144; p. 679.
- Wright, S. R., and C. L. Deihle, assignors to Telegraph Signal Company, Rochester, N. Y. Railway selective apparatus. No. 928,571; July 20; Sp. p. 3892; Gaz. vol. 144; p. 680.
- Wright, S. W., Eden, Ala. Car-coupling. No. 938,104; Oct. 26; Sp. p. 5232; Gaz. vol. 147; p. 897.
- Wright, T., Jersey City, N. J. Dumping-wagon. No. 920,512; May 4; Sp. p. 848; Gaz. vol. 142; p. 137.
- Wright, T., Jersey City, N. J. Block for vehicle-springs. No. 933,686; Sept. 7; Sp. p. 1479; Gaz. vol. 146; p. 223.
- Wright, T., Jersey City, N. J. Dumping-wagon. No. 939,782; Nov. 9; Sp. p. 2945; Gaz. vol. 148; p. 485.
- Wright, T. C., Goldfield, Nev. Automatic catch for mining-buckets, &c. No. 922,375; May 18; Sp. p. 4671; Gaz. vol. 142; p. 810.
- Wright, T. C., Goldfield, Nev. Hoisting and dumping apparatus. No. 929,530; July 27; Sp. p. 5535; Gaz. vol. 144; p. 1025.
- Wright, W. (See Wright, O. and W.)
- Wright, W., assignor of one-half to D. M. Hall, Brookside, Ala. Agricultural implement. No. 916,087; Mar. 23; Sp. p. 4969; Gaz. vol. 140; p. 880.
- Wright, W., assignor of one-half to J. Scourfield, Adamsville, Ala. Rail-joint. No. 927,393; July 6; Sp. p. 1376; Gaz. vol. 144; p. 229.
- Wright, W. D. C. (See Smith, J. M., assignor.)
- Wright, W. D. C., Philadelphia, Pa. Gas-lighter. No. 932,935; Aug. 31; Sp. p. 6975; Gaz. vol. 145; p. 1198.
- Wright, W. E., F. W., and J. T., Newark, N. J. Multiple winding-machine. No. 913,604; Feb. 23; Sp. p. 5335; Gaz. vol. 139; p. 945.
- Wright, W. J., Chicago, Ill. Clamping or binding mechanism. No. 930,258; Aug. 3; Sp. p. 1295; Gaz. vol. 145; p. 214.
- Wright, W. J., Franklin, Pa. Explosive-engine. No. 936,972; Oct. 12; Sp. p. 2842; Gaz. vol. 147; p. 474.
- Wright, W. J., assignor of one-half to D. L. Gillespie, A. B. Dally, Jr., and A. F. Holliday, Pittsburg, Pa. Gas-engine. No. 915,717; Mar. 16; Sp. p. 4260; Gaz. vol. 140; p. 734.
- Wright, W. L., Newport News, Va. Car-coupling. No. 933,941; Sept. 14; Sp. p. 1994; Gaz. vol. 146; p. 328.
- Wright, W. L., Washington, D. C., assignor to American Dairy Supply Company, Augusta, Me. Machine for paraffining disks or the like. No. 930,911; Aug. 10; Sp. p. 2658; Gaz. vol. 145; p. 455.
- Wright, W. S., Newark, Ohio. Means for holding window-sash. No. 911,690; Feb. 9; Sp. p. 1332; Gaz. vol. 139; p. 248.
- Wright's Stock Feeder Co. (See Wright, C. A., assignor.)
- Wuerth, J. F., Ann Arbor, Mich. Pin setter and spotter for bowling-alleys. No. 913,797; Mar. 2; Sp. p. 255; Gaz. vol. 140; p. 43.
- Wuest, P. Jr., assignor to Blasius Piano Company, Woodbury, N. J. Musical instrument. No. 913,867; Mar. 2; Sp. p. 421; Gaz. vol. 140; p. 68.
- Wukmanic, F., Richmond, Va. Curtain-pole. No. 913,344; Feb. 23; Sp. p. 4785; Gaz. vol. 139; p. 857.
- Wulf, C. A., Indianapolis, Ind. Flushing apparatus. No. 931,546; Aug. 17; Sp. p. 4034; Gaz. vol. 145; p. 695.
- Wulf, C. A., Indianapolis, Ind. Flushing apparatus. No. 938,195; Oct. 26; Sp. p. 5442; Gaz. vol. 147; p. 929.
- Wulf, A., assignor to Wagner Manufacturing Company, Cedar Falls, Iowa. Roller-bearing wheel. No. 940,106; Nov. 16; Sp. p. 3687; Gaz. vol. 148; p. 628.
- Wulf, A., assignor to Wagner Manufacturing Company, Cedar Falls, Iowa. Track and hanger for doors. No. 940,770; Nov. 23; Sp. p. 5174; Gaz. vol. 148; p. 879.
- "Wulffing, Dahl & Co., Actiengesellschaft Farbenfabriken." (See Ulrichs, E., assignor.)
- Wulffing, Firm of J. A. (See Bergell, P., assignor.)
- Wulkan & Glass. (See Wulkan, L., assignor.)
- Wulkan, L., assignor to Wulkan & Glass, New York, N. Y. Artificial limb for display-figures. No. 924,521; June 8; Sp. p. 3056; Gaz. vol. 143; p. 601.
- Wunderlich, A., assignor to London Electric Firm, Croydon, England. Suspension device for electric-arc lamps. No. 935,136; Sept. 28; Sp. p. 4359; Gaz. vol. 146; p. 778.
- Wunderlich, F., Swissvale, and L. Koerber, East Pittsburg, Pa. Rotary engine. No. 928,094; July 13; Sp. p. 2872; Gaz. vol. 144; p. 490.
- Wundrach, J., assignor to Omaha Packing Company, Chicago, Ill. Sausage-machine. No. 931,363; Aug. 17; Sp. p. 3685; Gaz. vol. 145; p. 637.
- Wurl, M. (See Schlick and Wurl.)
- Wurmfeld, E., and S. Wolpert, assignors of one-half to R. E. Powell, New York, N. Y. Apparatus for removing wall-paper from walls. No. 934,123; Sept. 14; Sp. p. 2356; Gaz. vol. 146; p. 387.
- Wurmser, H. O. (See Worden and Wurmser.)
- Wurster, C. H., Jr. (See Waechter and Wurster.)
- Würrthner, E., assignor to Firm of G. Siegle & Co., G. m. b. H., Stuttgart, Germany. Lake from sulfonated azo dyes. No. 918,244; Apr. 13; Sp. p. 2622; Gaz. vol. 141; p. 464.
- Wurts, E. V., assignor, by mesne assignments, to Window Glass Machine Company, Pittsburg, Pa. Horse for glass cylinders. No. 916,518; Mar. 30; Sp. p. 5840; Gaz. vol. 140; p. 1048.
- Wurzburger, F. J., Plymouth, Mass. Match-box. No. 924,522; June 8; Sp. p. 3058; Gaz. vol. 143; p. 501.
- Wurzer, J. F., and J. G. Hartman, Millvale, Pa. Street-sweeper. No. 941,838; Nov. 30; Sp. p. 7468; Gaz. vol. 148; p. 1255.
- Wüst-Kunz, C., Seebach, near Zurich, Switzerland. Machine for milling double helical-toothed wheels. No. 936,973; Oct. 12; Sp. p. 2847; Gaz. vol. 147; p. 474.
- Wüstner, G. (See Wiley, C. A., assignor.)
- Wuthenow, W., Canton, Ohio. Gas-burner. No. 918,245; Apr. 13; Sp. p. 2623; Gaz. vol. 141; p. 464.
- Wyand, A. K., *et al.* (See Kenney, F. E., assignor.)
- Wyant, A. T., Neenah, Wis. Paper-making-machine-cleansing device. No. 941,750; Nov. 30; Sp. p. 7260; Gaz. vol. 148; p. 1225.
- Wyatt, C. G. (See Brown and Wyatt.)
- Wyatt, G. R., assignor of three-eighths to A. M. Taylor and one-fourth to T. D. Evans, Redwood City, Cal. Oil-burner. No. 936,206; Oct. 5; Sp. p. 1259; Gaz. vol. 147; p. 191.
- Wyatt, J. H., assignor of one-third to W. Haley, Rocky Ford, Colo. Level. No. 917,699; Apr. 6; Sp. p. 1433; Gaz. vol. 141; p. 252.
- Wyatt, J. H., assignor to W. M. Scott, Philadelphia, Pa. Snap-switch. No. 921,050; May 11; Sp. p. 1941; Gaz. vol. 142; p. 344.



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- Wyatt, J. H., assignor to W. M. Scott, Philadelphia, Pa. Snap-switch. No. 930,449; Aug. 10; Sp. p. 1659; Gaz. vol. 145; p. 300.
- Wyckoff, C. V., assignor of one-half to C. H. Hoyt, Redlands, Cal. Portable house. No. 932,663; Aug. 31; Sp. p. 6436; Gaz. vol. 145; p. 1110.
- Wyckoff, Seamans & Benedict. (See Ballou, G. F., assignor.)
- Wyckoff, Seamans & Benedict. (See Berry, E. H., assignor.)
- Wyckoff, Seamans & Benedict. (See Briggs, D., assignor.)
- Wyckoff, Seamans & Benedict. (See Burnett, W. F., assignor.)
- Wyckoff, Seamans & Benedict. (See Delvigne, C., assignor.)
- Wyckoff, Seamans & Benedict. (See Diss, L. A., assignor.)
- Wyckoff, Seamans & Benedict. (See Diss, L. P., assignor.)
- Wyckoff, Seamans & Benedict. (See Keene, W. P., assignor.)
- Wyckoff, Seamans & Benedict. (See Kessler, W. H., assignor.)
- Wyckoff, Seamans & Benedict. (See Robbins, C. C., assignor.)
- Wyckoff, Seamans & Benedict. (See Shepard, C. H., assignor.)
- Wyckoff, Seamans & Benedict. (See Smith, A. F., assignor.)
- Wyckoff, Seamans & Benedict. (See Snyder, A. G., assignor.)
- Wyckoff, Seamans & Benedict. (See Steele, H. H., assignor.)
- Wyckoff, Seamans & Benedict. (See Steiger, A. W., assignor.)
- Wyckoff, Seamans & Benedict. (See White, H. R., assignor.)
- Wyckoff, Seamans & Benedict. (See Woodward, O., assignor.)
- Wyckoff, Seamans & Benedict. (See Yaw, C. B., assignor.)
- Wygall, W. W., and C. L. Burgess, Bluefield, W. Va., assignors to B. N. Hawes, Washington, D. C. Butter-making process. No. 930,713; Aug. 10; Sp. p. 2239; Gaz. vol. 145; p. 389.
- Wygant, L. B., assignor of one-half to Ohio Cultivator Company, Bellevue, Ohio. Knotting mechanism. No. 909,272; Jan. 12; Sp. p. 1713; Gaz. vol. 138; p. 309.
- Wygonik, M. J., Natrona, Pa. Nut-lock. No. 930,016; Aug. 3; Sp. p. 831; Gaz. vol. 145; p. 134.
- Wyland, R. A., Smith Center, Kans. Compound for dipping cattle. No. 916,519; Mar. 30; Sp. p. 5841; Gaz. vol. 140; p. 1048.
- Wylder, L., Cathay, N. D. Railway-tie. No. 938,538; Nov. 2; Sp. p. 221; Gaz. vol. 148; p. 32.
- Wylder, L., Cathay, N. D. Railway-tie. No. 938,539; Nov. 2; Sp. p. 223; Gaz. vol. 148; p. 32.
- Wyler, O. J., and D. C. Reidy, Douglas, Ariz. Ter. Switch. No. 921,051; May 11; Sp. p. 1942; Gaz. vol. 142; p. 345.
- Wylie, T. A., Chaffee, Mo. Attachment for cultivators. No. 932,741; Aug. 31; Sp. p. 6590; Gaz. vol. 145; p. 1153.
- Wylie, W. A., Detroit, Mich. Metal bedstead. No. 938,405; Oct. 26; Sp. p. 5901; Gaz. vol. 147; p. 1001.
- Wyman, C., New York, N. Y. Valve. No. 918,720; Apr. 20; Sp. p. 3668; Gaz. vol. 141; p. 651.
- Wyman, C. E., Pekin, Ind. Ball grinding-mill. No. 910,761; Jan. 26; Sp. p. 4780; Gaz. vol. 138; p. 865.
- Wyman, C. O., Anoka, Minn. Running-gear. No. 938,196; Oct. 26; Sp. p. 5443; Gaz. vol. 147; p. 930.
- Wyman, C. O., Anoka, Minn. Reaper and binder. No. 943,856; Dec. 21; Sp. p. 3915; Gaz. vol. 149; p. 681.
- Wyman, D. G., Orange, Mass. Toe-calk machine. No. 931,364; Aug. 17; Sp. p. 3688; Gaz. vol. 145; p. 637.
- Wyman, H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 931,829; Aug. 24; Sp. p. 4666; Gaz. vol. 145; p. 809.
- Wyman, H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 935,720; Oct. 5; Sp. p. 206; Gaz. vol. 147; p. 33.
- Wyman, H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Warp stop-motion for looms. No. 937,136; Oct. 19; Sp. p. 3189; Gaz. vol. 147; p. 558.
- Wyman, H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 937,979; Oct. 26; Sp. p. 4956; Gaz. vol. 147; p. 855.
- Wyman, H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 937,980; Oct. 26; Sp. p. 4961; Gaz. vol. 147; p. 855.
- Wyman, H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing-loom magazine. No. 938,540; Nov. 2; Sp. p. 224; Gaz. vol. 148; p. 33.
- Wyman, H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Loom for weaving tufted fabrics. No. 942,953; Dec. 14; Sp. p. 1982; Gaz. vol. 149; p. 343.
- Wyman, H., and J. T. Cyr, Worcester, Mass., assignors to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 941,179; Nov. 23; Sp. p. 6046; Gaz. vol. 148; p. 1015.
- Wyman, J., Millbridge, Me. Drying and baking oven. No. 914,099; Mar. 2; Sp. p. 956; Gaz. vol. 140; p. 150.
- Wyman, N. D., Montclair, N. J. Temperature-annunciator. No. 913,180; Feb. 23; Sp. p. 4448; Gaz. vol. 139; p. 802.
- Wyman, O. J., Fairport, N. Y. Gate. No. 917,234; Apr. 6; Sp. p. 555; Gaz. vol. 141; p. 97.
- Wyman, W. F., assignor of one-half to J. A. Crum, Oshkosh, Wis. Packing and upholstery material. No. 934,782; Sept. 21; Sp. p. 3626; Gaz. vol. 146; p. 632.
- Wyman, W. F., assignor of one-half to J. A. Crum, Oshkosh, Wis. Treating grasses. No. 934,872; Sept. 21; Sp. p. 3811; Gaz. vol. 146; p. 661.
- Wyman, W. F., assignor of one-half to J. A. Crum, Oshkosh, Wis. Grass-crimping apparatus. No. 940,630; Nov. 16; Sp. p. 4842; Gaz. vol. 148; p. 806.
- Wynberg, A., Amsterdam, Netherlands. Wax-like product obtained from sugar-cane. No. 941,401; Nov. 30; Sp. p. 6530; Gaz. vol. 148; p. 1109.
- Wyne, L. E., *et al.* (See Sieben, H., assignor.)
- Wynn, J. S. (See McLaughlin and Wynn.)
- Wynne, W. A., Raleigh, N. C. Telephone-exchange system. No. 911,798; Feb. 9; Sp. p. 1515; Gaz. vol. 139; p. 283.
- Wynne, W. A., Raleigh, N. C. Telephone-exchange system. No. 944,120; Dec. 21; Sp. p. 4496; Gaz. vol. 149; p. 772.
- Wynne, W. A., Raleigh, N. C. Telephone system. No. 944,227; Dec. 21; Sp. p. 4689; Gaz. vol. 149; p. 804.
- Wyoming Track Sand Co. (See Robinson and McCabe, assignors.)
- Wyson, O. C., Greensboro, N. C. Abrasive apparatus. No. 918,247; Apr. 13; Sp. p. 2625; Gaz. vol. 141; p. 465.
- Wyson, O. C., Greensboro, N. C. Band-pulley. No. 918,248; Apr. 13; Sp. p. 2627; Gaz. vol. 141; p. 465.
- Wysinger, L., assignor of one-half to J. C. Frey, Hagerstown, Md. Wire-gate fastener. No. 925,410; June 15; Sp. p. 4845; Gaz. vol. 143; p. 828.
- Xardell, C. A. (See Xardell, J. A. and C. A.)
- Xardell, J. A. and C. A., Utica, N. Y. Exhaust-muffler. No. 944,646; Dec. 28; Sp. p. 5633; Gaz. vol. 149; p. 978.
- Xavier, J., Cleveland, Ohio, assignor to American Can Company, New York, N. Y. Sheet-metal display-can. No. 922,831; May 25; Sp. p. 5639; Gaz. vol. 142; p. 988.
- Xavier, J., Cleveland, Ohio, assignor to American Can Company, New York, N. Y. Sheet-metal display-can. No. 922,832; May 25; Sp. p. 5642; Gaz. vol. 142; p. 989.
- Xavier, J., Cleveland, Ohio, assignor to American Can Company, New York, N. Y. Sheet-metal display-can. No. 938,736; Nov. 2; Sp. p. 618; Gaz. vol. 148; p. 97.
- Yacobian, R. K., Philadelphia, Pa. Candy and making same. No. 921,052; May 11; Sp. p. 1944; Gaz. vol. 142; p. 345.
- Yadon, J. (See Ford, W. A., assignor.)
- Yaeger, M., Philadelphia, Pa., assignor to Crown Manufacturing Company. Machine for making wire hat-frames. No. 937,744; Oct. 19; Sp. p. 4468; Gaz. vol. 147; p. 757.
- Yager, H. M., Davenport, Iowa. Gas-engine. No. 928,299; July 20; Sp. p. 3362; Gaz. vol. 144; p. 591.
- Yale, L. P., and H. E. Reagan, Chicago, Ill. End-dumping device. No. 914,004; Mar. 2; Sp. p. 736; Gaz. vol. 140; p. 117.
- Yale Manufacturing Company. (See Arneson, O. A., assignor.)
- Yale & Towne Manufacturing Company. (See Augenbraun, P. F., assignor.)
- Yale & Towne Manufacturing Company. (See Haldy, F. G., assignor.)
- Yale & Towne Manufacturing Company. (See Regan, J. C., assignor.)
- Yale & Towne Manufacturing Company. (See Roehr, L., assignor.)
- Yale & Towne Manufacturing Company. (See Schoell, R., assignor.)
- Yale & Towne Manufacturing Company. (See Smith, F. E., assignor.)
- Yale & Towne Manufacturing Company. (See Taylor, W. H., assignor.)
- Yale & Towne Manufacturing Company. (See Towne, H. R., assignor.)
- Yampolsky, M. J., St. Louis, Mo. Making artificial fuel. No. 926,449; June 29; Sp. p. 7016; Gaz. vol. 143; p. 1236.
- Yancey, A., Dermott, Ark. Seining apparatus. No. 919,107; Apr. 20; Sp. p. 4438; Gaz. vol. 141; p. 775.
- Yancey, A., Biloxi, Miss. Means for securing the selvage-lines of seines. No. 919,108; Apr. 20; Sp. p. 4441; Gaz. vol. 141; p. 776.
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- Yankauer, S., New York, N. Y. Rotary valve. No. 930,017; Aug. 3; Sp. p. 832; Gaz. vol. 145; p. 134.
- Yankee Beet Topper Company. (See Giddings and Blevins, assignors.)
- Yanowsky, I., Toronto, Ontario, Canada. Corset. No. 933,610; Sept. 7; Sp. p. 1332; Gaz. vol. 146; p. 197.
- Yanzick, J., Jr. (See McDermott and Yanzick.)
- Yapp, T. A., assignor to E. R. Thomas Motor Company, Buffalo, N. Y. Valve for automobile drip-pans. No. 942,232; Dec. 7; Sp. p. 440; Gaz. vol. 149; p. 68.
- Yarberry, W. B., Goddard, Kans. Rural-mail-delivery car. No. 940,107; Nov. 16; Sp. p. 3688; Gaz. vol. 148; p. 628.
- Yarborough, E. and V. T., Gum Branch, Ga. Fireplace andirons and fender. No. 944,980; Dec. 28; Sp. p. 6344; Gaz. vol. 149; p. 1089.
- Yarborough, V. T. (See Yarborough, E. and V. T.)
- Yard, D. S., Olean, N. Y. Machine for capping milk-bottles. No. 935,879; Sp. p. t. 5; Oct. 01; Gaz. vol. 147; p. 86.
- Yard, W. T., Trenton, N. J. Spraying-nozzle. No. 912,520; Feb. 16; Sp. p. 3095; Gaz. vol. 139; p. 556.
- Yaryan, H. T. (See Walker, G., assignor.)
- Yaryan, H. T., Toledo, Ohio. Removing turpentine and rosin from resinous woods. No. 915,400; Mar. 16; Sp. p. 3598; Gaz. vol. 140; p. 626.
- Yaryan, H. T., Toledo, Ohio. Purifying rosin. No. 915,401; Mar. 16; Sp. p. 3600; Gaz. vol. 140; p. 627.
- Yaryan, H. T., Toledo, Ohio. Treatment of rosin. No. 915,402; Mar. 16; Sp. p. 3601; Gaz. vol. 140; p. 627.
- Yaryan, H. T., Toledo, Ohio. Purification of rosin. No. 934,257; Sept. 14; Sp. p. 2618; Gaz. vol. 146; p. 433.
- Yates, A. G., Friend, Nebr. Seedbox. No. 913,605; Feb. 23; Sp. p. 5340; Gaz. vol. 139; p. 945.
- Yates, A. L., Niagara Falls, N. Y. Furnace. No. 919,802; Apr. 27; Sp. p. 6066; Gaz. vol. 141; p. 1044.
- Yates, C. J., Norwood, Ohio, assignor to Allis-Chalmers Company and Bullock Electric Manufacturing Company. Commutator-type high-speed dynamo-electric machine. No. 922,230; May 18; Sp. p. 4404; Gaz. vol. 142; p. 764.
- Yates, F. G. (See Stites and Yates.)
- Yates, G. M., assignor of one-half to J. W. Davidson, Flemington, W. Va. Marking-gage. No. 937,352; Oct. 19; Sp. p. 3648; Gaz. vol. 147; p. 628.
- Yates, R., Passaic, N. J. Ice-skate. No. 940,108; Nov. 16; Sp. p. 3690; Gaz. vol. 148; p. 629.
- Yates, S., administratrix. (See McCormick, J. S.)
- Yates, W. B., Chicago, Ill. Gear-cutting machine. No. 912,349; Feb. 16; Sp. p. 2744; Gaz. vol. 139; p. 500.
- Yates, W. C., Schenectady, N. Y., assignor to General Electric Company. Motor-controlling rheostat. No. 910,343; Jan. 19; Sp. p. 3909; Gaz. vol. 138; p. 703.
- Yates, W. C., Schenectady, N. Y., assignor to General Electric Company. Rheostat. No. 910,478; Jan. 19; Sp. p. 4193; Gaz. vol. 138; p. 749.
- Yates, W. C., Schenectady, N. Y., assignor to General Electric Company. Automatic motor-starter. No. 910,762; Jan. 26; Sp. p. 4781; Gaz. vol. 138; p. 865.
- Yaw, C. B., Arlington, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 920,410; May 4; Sp. p. 644; Gaz. vol. 142; p. 103.
- Yaw, C. B., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 927,203; July 6; Sp. p. 1040; Gaz. vol. 144; p. 168.
- Yaw, C. B., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 941,122; Nov. 23; Sp. p. 5904; Gaz. vol. 148; p. 994.
- Yaw, C. B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 932,664; Aug. 31; Sp. p. 6431; Gaz. vol. 145; p. 1110.
- Yaw, C. B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 934,124; Sept. 14; Sp. p. 2357; Gaz. vol. 146; p. 388.
- Yaw, C. B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 939,579; Nov. 9; Sp. p. 2500; Gaz. vol. 148; p. 414.
- Yaw, C. B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 944,303; Dec. 28; Sp. p. 4868; Gaz. vol. 149; p. 858.
- Yawman & Erbe Manufacturing Company. (See Wiesner, M., assignor.)
- Yawman & Erbe Manufacturing Company. (See Yawman, P. H., assignor.)
- Yawman, P. H., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Paper-filing device. No. 918,112; Apr. 13; Sp. p. 2345; Gaz. vol. 141; p. 420.
- Yawman, P. H., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Roller copying-press. No. 932,665; Aug. 31; Sp. p. 6433; Gaz. vol. 145; p. 1110.
- Yaxley, E. E., Chicago, Ill. Clock winding mechanism. No. 922,550; May 25; Sp. p. 5047; Gaz. vol. 142; p. 897.
- Yaxley, E. E., Chicago, Ill. Motor. No. 929,744; Aug. 3; Sp. p. 227; Gaz. vol. 145; p. 40.
- Yaxley, E. E., assignor to Monarch Telephone Manufacturing Company, Chicago, Ill. Telephone system. No. 924,714; June 15; Sp. p. 3481; Gaz. vol. 143; p. 599.
- Yaxley, E. E., assignor to Monarch Telephone Manufacturing Company, Chicago, Ill. Clock system. No. 909,503; Jan. 12; Sp. p. 2166; Gaz. vol. 138; p. 384.
- Yeager, L., Jr., Catawissa, Pa. Car-step. No. 917,511; Apr. 6; Sp. p. 1085; Gaz. vol. 141; p. 190.
- Yeager, L., Jr., Catawissa, Pa. Car-step. No. 919,278; Apr. 20; Sp. p. 4964; Gaz. vol. 141; p. 832.
- Yeager, S., assignor of one-half to H. D. Miller, Pittsburg, Pa. Apparatus for steering vessels. No. 921,777; May 18; Sp. p. 3472; Gaz. vol. 142; p. 617.
- Yeakle, G. P., assignor of one-half to C. Keller, Norristown, Pa. Ice-tongs. No. 922,376; May 18; Sp. p. 4673; Gaz. vol. 142; p. 811.
- Yeakel, J. C., Waynesville, Ill. Ironing-board. No. 944,401; Dec. 28; Sp. p. 5076; Gaz. vol. 149; p. 893.
- Yearke, A. F. (See Yearke, J. C., assignor.)
- Yearke, J. C., assignor of one-half to A. F. Yearke, Buffalo, N. Y. Pipe-coupling. No. 943,330; Dec. 14; Sp. p. 2790; Gaz. vol. 149; p. 470.
- Yearneau, R., Clark, S. D. Rent-collecting means for telephone service. No. 910,628; Jan. 26; Sp. p. 4514; Gaz. vol. 138; p. 823.
- Yearneau, R., Clark, S. D. Rent-collecting means for telephone service. No. 931,547; Aug. 17; Sp. p. 4035; Gaz. vol. 145; p. 695.
- Yeatts, H., Vernon Hill, Va. Ax. No. 910,763; Jan. 26; Sp. p. 4783; Gaz. vol. 138; p. 865.
- Yeazell, O. R., Cincinnati, Ohio. Keg or cask. No. 944,164; Dec. 21; Sp. p. 4583; Gaz. vol. 149; p. 786.
- Yeiser, L. A., Philadelphia, Pa. Garment-hook. No. 910,106; Jan. 19; Sp. p. 3367; Gaz. vol. 138; p. 619.
- Yeiser, L. A., Philadelphia, Pa. Eye for garment-hooks. No. 910,764; Jan. 26; Sp. p. 4784; Gaz. vol. 138; p. 866.
- Yeiser, L. B., Cleveland, Ohio. Flushing-tank. No. 924,953; June 15; Sp. p. 3977; Gaz. vol. 143; p. 680.
- Yelmini, V. P., Alameda, Cal. Gold-saving apparatus. No. 932,936; Aug. 31; Sp. p. 6976; Gaz. vol. 145; p. 1198.
- Yenner, M. A., Chicago, Ill. Pillow or cushion frame. No. 929,810; Aug. 3; Sp. p. 386; Gaz. vol. 145; p. 64.
- Yeoman, E. C., De Kalb, Ill. Seal device. No. 926,161; June 29; Sp. p. 6439; Gaz. vol. 143; p. 1142.
- Yeomans, W. M., Hancock, N. Y. Hair-ribbon pin. No. 926,450; June 29; Sp. p. 7017; Gaz. vol. 143; p. 1236.
- Yerger, A. F., *et al.* (See Kennedy, F., assignor.)
- Yerger, A. F., *et al.* (See Kennedy, F. L., assignor.)
- Yerk, A. G., Chicago, Ill. Automatic grain-weigher. No. 936,593; Oct. 12; Sp. p. 2091; Gaz. vol. 147; p. 348.
- Yerkes, W. H., Sheridanville, Pa. Rail connection. No. 921,575; May 11; Sp. p. 3027; Gaz. vol. 142; p. 520.
- Yerks, O. R. (See Carver, C., assignor.)
- Yerrick, C. R. (See Ward and Yerrick.)
- Yingst, D. (See Bashore, D. H., assignor.)
- Yockey, F., and C. D. McLeod, Sioux City, Iowa. Safety gas-valve. No. 942,158; Dec. 7; Sp. p. 286; Gaz. vol. 149; p. 44.
- Yocum, F. H., London, Ontario, Canada. Tanning-machine. No. 916,821; Mar. 30; Sp. p. 6384; Gaz. vol. 140; p. 1141.
- Yoder, A. H., Canton, Ohio. Kiln. No. 944,304; Dec. 28; Sp. p. 4873; Gaz. vol. 149; p. 858.
- Yoder, F. S., Wernersville, assignor of one-half to K. N. Yoder, Reading, Pa. Trolley-wheel. No. 932,363; Aug. 24; Sp. p. 5771; Gaz. vol. 145; p. 986.
- Yoder, K. N. (See Yoder, F. S., assignor.)
- Yoder, M. S., Shipshewana, Ind. Hoisting or carrying mechanism for barns. No. 923,923; June 8; Sp. p. 1826; Gaz. vol. 143; p. 305.
- Yoerger, G., Brooklyn, N. Y. Heater attachment for gas-burners. No. 921,778; May 18; Sp. p. 3473; Gaz. vol. 142; p. 617.
- Yohe, P. M. (See Kaufman and Yohe.)
- Yoksch, L., Denver, Colo. Smoke-consuming furnace. No. 912,223; Feb. 9; Sp. p. 2423; Gaz. vol. 139; p. 418.
- Yonkers Specialty Company. (See Walsh, J. J., assignor.)
- York Bridge Company. (See Webster, G., assignor.)
- York, D. A., Northgrove, Ind. Draw-bar and coupling, &c. No. 915,403; Mar. 16; Sp. p. 3602; Gaz. vol. 140; p. 627.
- York, F. O., Lock Haven, Pa. Hame-fastener. No. 927,627; July 13; Sp. p. 1926; Gaz. vol. 144; p. 337.
- York, J. A., Mena, Ark. Knife. No. 917,829; Apr. 13; Sp. p. 1742; Gaz. vol. 141; p. 320.
- York, J. A., assignor, by mesne assignments, to Arrow Electric Company, Hartford, Conn. Contact device for switches. No. 931,911; Aug. 24; Sp. p. 4874; Gaz. vol. 145; p. 835.



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 York, J. E., New York, N. Y., assignor to York Rolling Process Company. Rerolling metal shapes from old railway-rails. No. 938,197; Oct. 26; Sp. p. 5446; Gaz. vol. 147; p. 930.  
 York Rolling Process Company. (See York, J. E., assignor.)  
 York Safe & Lock Company. (See Wilkinson, W. E., assignor.)  
 York Safe & Lock Company. (See Wilkinson and Mummert, assignors.)  
 York, W., Dixon, assignor to C. S. Palmer, Aurora, Ill. Combination whip and robe lock. No. 943,107; Dec. 14; Sp. p. 2334; Gaz. vol. 149; p. 396.  
 Yorke, E. H. (See Blood, C. E., assignor.)  
 Yorks, A. S., Neshanic Station, N. J. Pocket toilet set. No. 909,273; Jan. 12; Sp. p. 1718; Gaz. vol. 138; p. 309.  
 Yorty, E. D. (See Davison and Yorty.)  
 Yosi, F., Utica, N. Y. Steaming-table. No. 910,629; Jan. 26; Sp. p. 4518; Gaz. vol. 138; p. 823.  
 Yost, E. F. (See Walker, E. J., assignor.)  
 Yost, J. E., Arkansas City, Kans. Dry yeast compound. No. 941,221; Nov. 23; Sp. p. 6137; Gaz. vol. 148; p. 1029.  
 Yost, J. R., *et al.* (See Carpenter, J. H., assignor.)  
 Yost, P. G. (See Shaw and Yost.)  
 Yost, R. R., *et al.* (See Carpenter, J. H., assignor.)  
 Yost, W. H., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Dump-door-operating lever. No. 919,413; Apr. 27; Sp. p. 5266; Gaz. vol. 141; p. 912.  
 Yost Writing Machine Company. (See Smith, A. W., assignor.)  
 Yost Writing Machine Company. (See Woodward, O., assignor.)  
 Youds, J., Chislehurst, England. Golf-club. No. 922,444; May 18; Sp. p. 4823; Gaz. vol. 142; p. 834.  
 Young, A. (See Young, L. H. and A.)  
 Young, A. B., Salt Lake City, Utah. Sintering-machine. No. 930,259; Aug. 3; Sp. p. 1298; Gaz. vol. 145; p. 214.  
 Young, A. B. and S. L. Jones, Philadelphia, Pa.; said Young assignor to said Jones. Hydrocarbon incandescent lamp. No. 930,714; Aug. 10; Sp. p. 2240; Gaz. vol. 145; p. 390.  
 Young, A. C., Philadelphia, Pa. Telescope-lens adapter. No. 910,344; Jan. 19; Sp. p. 3911; Gaz. vol. 138; p. 703.  
 Young, A. M., Danville, Ill. Comb. No. 923,399; June 1; Sp. p. 661; Gaz. vol. 143; p. 96.  
 Young, A. W., Dedham, Mass. Hand-truck. No. 924,523; June 8; Sp. p. 3058; Gaz. vol. 143; p. 601.  
 Young, B. L. and R. Stokes, Jr., Providence, R. I. Window-shade bracket. No. 913,798; Mar. 2; Sp. p. 256; Gaz. vol. 140; p. 43.  
 Young Building and Investment Company. (See Humes, H. S., assignor.)  
 Young, C. and E. G., Livermore, Cal. Adjustable seat for sidewalk implements. No. 918,249; Apr. 13; Sp. p. 2629; Gaz. vol. 141; p. 465.  
 Young, C. and E. G., Livermore, Cal. Sidehill gang-plow. No. 929,070; July 27; Sp. p. 4897; Gaz. vol. 144; p. 874.  
 Young, C. D., Columbus, Ohio. Means for securing movable lathe-stocks. No. 927,628; July 13; Sp. p. 1927; Gaz. vol. 144; p. 338.  
 Young, C. D., Columbus, Ohio. Swing-motion truck for cars. No. 944,165; Dec. 21; Sp. p. 4584; Gaz. vol. 149; p. 786.  
 Young, C. D., Columbus, Ohio. Car-truck. No. 944,587; Dec. 28; Sp. p. 5527; Gaz. vol. 149; p. 958.  
 Young, C. G. (See Barnes, G. M., assignor.)  
 Young, C. W., Omaha, Nebr. Composite shingle. No. 933,221; Sept. 7; Sp. p. 435; Gaz. vol. 146; p. 67.  
 Young, E. D., Waukegan, Ill. Ditching-machine. No. 918,635; Apr. 20; Sp. p. 3443; Gaz. vol. 141; p. 621.  
 Young, E. G. (See Young, C. and E. G.)  
 Young, E. J., Buenos Ayres, Argentina. Shock-absorbing mechanism. No. 916,822; Mar. 30; Sp. p. 6385; Gaz. vol. 140; p. 1142.  
 Young, E. J., Buenos Ayres, Argentina. Apparatus for reading stadia. No. 922,833; May 25; Sp. p. 5044; Gaz. vol. 142; p. 989.  
 Young, E. J. and J. H. Weaver, assignors to Ohio Match Company, Wadsworth, Ohio. Machine for making matches. No. 920,513; May 4; Sp. p. 852; Gaz. vol. 142; p. 138.  
 Young, E. L. (See Levy and Young.)  
 Young, F., Denver, Colo. Adjustable nut-lock. No. 914,908; Mar. 9; Sp. p. 2622; Gaz. vol. 140; p. 439.  
 Young, F., New York, N. Y. Lady's hat-container. No. 923,924; June 8; Sp. p. 1828; Gaz. vol. 143; p. 305.  
 Young, F. A., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 921,779; May 18; Sp. p. 3475; Gaz. vol. 142; p. 618.  
 Young, F. A., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 925,411; June 15; Sp. p. 4846; Gaz. vol. 143; p. 828.  
 Young, F. J., Lowell, Ohio. Switch mechanism. No. 930,018; Aug. 3; Sp. p. 834; Gaz. vol. 145; p. 134.  
 Young, F. J., Fort Wayne, Ind. Self-measuring oil-pump. No. 924,715; June 15; Sp. p. 3486; Gaz. vol. 143; p. 599.  
 Young, F. W. (See Pearce, R. M., assignor.)  
 Young, F. W., East Orange, assignor to Crocker-Wheeler Company, Ampere, N. J. Air-deflector for dynamo-electric machines. No. 919,279; Apr. 20; Sp. p. 4965; Gaz. vol. 141; p. 832.  
 Young, F. W., East Orange, assignor to Crocker-Wheeler Company, Ampere, N. J. Bridging-block for dynamo-electric machines. No. 941,180; Nov. 23; Sp. p. 6053; Gaz. vol. 148; p. 1015.  
 Young, F. W., East Orange, assignor to Crocker-Wheeler Company, Ampere, N. J. Bridging-block for dynamo-electric machines. No. 941,182; Nov. 23; Sp. p. 6055; Gaz. vol. 148; p. 1016.  
 Young, F. W., East Orange, and E. Heitmann, Montclair, assignors to Crocker-Wheeler Company, Ampere, N. J. Lining for slots of dynamo-electric-machine elements. No. 941,181; Nov. 23; Sp. p. 6054; Gaz. vol. 148; p. 1015.  
 Young, G. F. (See Duering, F. E., assignor.)  
 Young, G. H., Des Moines, Iowa. Corn-planter. No. 915,148; Mar. 16; Sp. p. 3100; Gaz. vol. 140; p. 544.  
 Young, G. T., Stoneham, and A. H. Gleason, Stow, Mass. Calipers. No. 942,529; Dec. 7; Sp. p. 1052; Gaz. vol. 149; p. 170.  
 Young, G. W., Seattle, Wash. Parallel-ruler. No. 937,501; Oct. 19; Sp. p. 3995; Gaz. vol. 147; p. 677.  
 Young, H. A., Chicago, Ill. Piston-packing. No. 934,125; Sept. 14; Sp. p. 2370; Gaz. vol. 146; p. 338.  
 Young, H. B., Mount Holly, N. J. Calendar. No. 926,799; July 6; Sp. p. 191; Gaz. vol. 144; p. 32.  
 Young, H. B., Cleveland, Ohio, assignor to Oliver Typewriter Company, Chicago, Ill. Billing attachment for type-writers. No. 933,942; Sept. 14; Sp. p. 1995; Gaz. vol. 146; p. 328.  
 Young, H. B., and R. Palomino, Shafter, Tex. Tire-remover. No. 944,760; Dec. 28; Sp. p. 5896; Gaz. vol. 149; p. 1016.  
 Young, H. H., San Francisco, Cal. Dough-raising apparatus. No. 915,010; Mar. 9; Sp. p. 2780; Gaz. vol. 140; p. 470.  
 Young, H. P., Milwaukee, Wis. Automatic fire-escape. No. 916,823; Mar. 30; Sp. p. 6387; Gaz. vol. 140; p. 1142.  
 Young, H. R., Catasauqua, Pa. Boiler compound. No. 913,606; Feb. 23; Sp. p. 5342; Gaz. vol. 139; p. 945.  
 Young, H. V., New Cumberland, W. Va. Cover for automobile transmission-gears. No. 926,800; July 6; Sp. p. 192; Gaz. vol. 144; p. 32.  
 Young, H. W., Elmhurst, Cal. Sanitary commode-seat. No. 919,512; Apr. 27; Sp. p. 5503; Gaz. vol. 141; p. 945.  
 Young, J. (See Foll, G., assignor.)  
 Young, J. A. (See Sullivan and Young.)  
 Young, J. D., Seattle, Wash., assignor to one-fourth to H. B. Ritchie, Hyde Park, Mass. Preserving fish. No. 921,328; May 11; Sp. p. 2539; Gaz. vol. 142; p. 440.  
 Young, J. F., Morristown, N. J. Leaf-turner. No. 921,496; May 11; Sp. p. 2878; Gaz. vol. 142; p. 495.  
 Young, J. F., Owatonna, Minn. Flushing device for water-closet tanks. No. 936,396; Oct. 12; Sp. p. 1658; Gaz. vol. 147; p. 281.  
 Young, J. F., and F. A. Libby, Morristown, N. J. Buckle. No. 910,258; Jan. 19; Sp. p. 3729; Gaz. vol. 138; p. 673.  
 Young, J. M., and F. W. Robertshaw, assignors to Fort Pitt Supply Company, Pittsburg, Pa. Mechanism for operating flush-valves. No. 925,550; June 22; Sp. p. 5133; Gaz. vol. 143; p. 905.  
 Young, J. M., and C. M. Symonds, San Francisco, Cal., assignors to American Can Company, New York, N. Y. Can fusing and soldering machine for square, rectangular, or polygonal cans. (Reissue.) No. 13,007; Aug. 10; Sp. p. 2927; Gaz. vol. 145; p. 493.  
 Young, J. N., Albion, Mich. Carburetor. No. 915,647; Mar. 16; Sp. p. 4111; Gaz. vol. 140; p. 710.  
 Young, J. N., assignor of four-fifths to S. W. King, Dallas, Tex. Oil-burner. No. 942,028; Nov. 30; Sp. p. 7828; Gaz. vol. 148; p. 1319.  
 Young, J. R., Norfolk, Va. Making complete fertilizers. No. 911,283; Feb. 2; Sp. p. 516; Gaz. vol. 139; p. 89.  
 Young, L. A., Detroit, Mich. Tufting-button for cushion-seats. No. 913,248; Feb. 23; Sp. p. 4597; Gaz. vol. 139; p. 824.  
 Young, L. A., Detroit, Mich. Tufting-button for cushion-seats. No. 920,514; May 4; Sp. p. 854; Gaz. vol. 142; p. 138.  
 Young, L. H. and A., assignors of one-fourth to A. A. Schuller, Hagerstown, Md. Dump-cart. No. 938,198; Oct. 26; Sp. p. 5448; Gaz. vol. 147; p. 930.  
 Young, L. T., Red Bank, N. J. Game apparatus. No. 939,580; Nov. 9; Sp. p. 2509; Gaz. vol. 148; p. 414.  
 Young, L. W., Pittsburg, Pa. Globe for inverted incandescent gas-burners. No. 934,873; Sept. 21; Sp. p. 3812; Gaz. vol. 146; p. 661.  
 Young, M. G., Coventry township, Summit county, Ohio. Alarm for sprinkler systems. No. 941,053; Nov. 23; Sp. p. 5757; Gaz. vol. 148; p. 972.  
 Young-Mann-Averill Company. (See Young, O. W., assignor.)  
 Young, O. R., Riverhead, N. Y. Tube-cutter. No. 936,263; Oct. 5; Sp. p. 1359; Gaz. vol. 147; p. 210.  
 Young, O. W., Chicago, Ill., assignor to Young-Mann-Averill Company. Joint for shifting means for radius-rods. No. 940,224; Nov. 16; Sp. p. 3939; Gaz. vol. 148; p. 670.

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- Young, P. K., Omaha, Nebr. Groove-filling device for street-railway crossings. No. 939,463; Nov. 9; Sp. p. 2264; Gaz. vol. 148; p. 375.
- Young, P. M. (See Lovekin and Young.)
- Young, S. D., assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Guard for rotary garment-supports. No. 941,669; Nov. 30; Sp. p. 7082; Gaz. vol. 148; p. 1197.
- Young, S. L., assignor of one-half to H. C. Drake, New Castle, Pa. Sand-blast device. No. 923,100; May 25; Sp. p. 6196; Gaz. vol. 142; p. 1074.
- Young, S. M. (See Townsend, F., assignor.)
- Young, S. M. and F. Townsend, deceased, New York, N. Y., (J. J. Townsend administrator,) assignors to said Young. Electric signaling system. No. 919,996; Apr. 27; Sp. p. 6480; Gaz. vol. 141; p. 1107.
- Young, T. C., Furnessville, Ind. Boot and shoe. No. 927,017; July 6; Sp. p. 649; Gaz. vol. 144; p. 106.
- Young, W., Uledi, Pa. Recording-gage. No. 910,630; Jan. 26; Sp. p. 4519; Gaz. vol. 138; p. 823.
- Young, W. F., Spartanburg, S. C. Safety-envelop. No. 932,742; Aug. 31; Sp. p. 6591; Gaz. vol. 145; p. 1136.
- Young, W. F., Chicago, Ill. Checking attachment for carriages and wagons. No. 940,771; Nov. 23; Sp. p. 5175; Gaz. vol. 148; p. 879.
- Young, W. F., Detroit, Mich., assignor to Faultless Caster Company, Nebraska City, Nebr. Brake for casters. No. 918,636; Apr. 20; Sp. p. 3444; Gaz. vol. 141; p. 621.
- Young, W. H. (See Cannon, Young, and Bateholts.)
- Young, W. H., Decatur, Ga. Refrigerator. No. 940,416; Nov. 16; Sp. p. 4393; Gaz. vol. 148; p. 735.
- Young, W. J., Lynn, Mass. Counter-molding machine. No. 927,204; July 6; Sp. p. 1047; Gaz. vol. 144; p. 169.
- Young, W. W., Springfield, Mass. Sound-regulator. No. 940,109; Nov. 16; Sp. p. 3692; Gaz. vol. 148; p. 629.
- Youngberg, S. A., and J. B. Parnall, assignors of one-third to F. J. Kietzer, Rosthern, Saskatchewan Canada. Car-fender. No. 940,772; Nov. 23; Sp. p. 5176; Gaz. vol. 148; p. 879.
- Youngblood, D. F., San Antonio, Tex. Portable convict-cage. No. 922,993; May 25; Sp. p. 5963; Gaz. vol. 142; p. 1040.
- Youngblood, D. F., San Antonio, Tex. Forge locked grating. No. 940,912; Nov. 23; Sp. p. 5456; Gaz. vol. 148; p. 924.
- Youngblood, J. B., Cleveland, Ohio. Blow-off cock. No. 943,056; Dec. 14; Sp. p. 2241; Gaz. vol. 149; p. 380.
- Youngman, C. A., assignor of one-half to A. J. Pohlman, Louisville, Ky. Capping-machine. No. 931,244; Aug. 17; Sp. p. 3430; Gaz. vol. 145; p. 595.
- Yongs, F. E., Detroit, Mich., assignor to Equitable Meter Company, Pittsburg, Pa. Gas-regulator. No. 930,640; Aug. 10; Sp. p. 2096; Gaz. vol. 145; p. 366.
- Yongs, G. W., Greenwood, Wis. Cattle-guard. No. 936,974; Oct. 12; Sp. p. 2848; Gaz. vol. 147; p. 475.
- Youngstown Sheet and Tube Company. (See Hock, H. W., assignor.)
- Youngstown Steel Company. (See Phillips, T. M., assignor.)
- Yount, H. J., Vernon, Colo. Rein-holder. No. 915,528; Mar. 16; Sp. p. 3836; Gaz. vol. 140; p. 667.
- Yount, S. T., Chicago, Ill. Therapeutic device. No. 938,808; Nov. 2; Sp. p. 772; Gaz. vol. 148; p. 124.
- Yoxheimer, C. B., Lock Haven, Pa. Wall pocket and rack. No. 929,361; July 27; Sp. p. 5553; Gaz. vol. 144; p. 973.
- Ypsilanti Lubricator Company. (See McCoy, E., assignor.)
- Yulli, J. M., Manchester, N. H., assignor to Draper Company, Hopedale, Mass. Lease-controlled stop-motion for looms. No. 929,811; Aug. 3; Sp. p. 387; Gaz. vol. 145; p. 64.
- Yungel, E. A., New York, N. Y. Card-index case. No. 932,840; Aug. 31; Sp. p. 6795; Gaz. vol. 145; p. 1165.
- Yuster, M. L., assignor of one-half to O. B. Smith, Rochester, Ind. Automobile combination-lock. No. 931,981; Aug. 24; Sp. p. 5014; Gaz. vol. 145; p. 858.
- Yutzy, W. C., Chicago, Ill. Mute for violins. No. 917,512; Apr. 6; Sp. p. 1086; Gaz. vol. 141; p. 190.
- Yuzuk, P. R., New York, N. Y., assignor to General Electric Company. Detachable plug. No. 921,196; May 11; Sp. p. 2250; Gaz. vol. 142; p. 396.
- Zabel, B. (See Zabel, W. and B.)
- Zabel, C., Edgewood Park, Pa. Bowling device. No. 924,212; June 8; Sp. p. 2458; Gaz. vol. 143; p. 399.
- Zabel, M. W., *et al.* (See Leich, O. M., assignor.)
- Zabel, M. W., Chicago, Ill. Signaling system for railways. No. 917,830; Apr. 13; Sp. p. 1743; Gaz. vol. 141; p. 321.
- Zabel, W. and B., Edgewood Park, Pa. Foot-rest for chairs, swings, &c. No. 922,994; May 25; Sp. p. 5965; Gaz. vol. 142; p. 1040.
- Zabriskie, H. L., Brooklyn, N. Y., assignor to Diehl Manufacturing Company. Brush-holder. No. 912,350; Feb. 16; Sp. p. 2745; Gaz. vol. 139; p. 500.
- Zabst, W. E., Portage, Wis. Telephone call mechanism. No. 913,607; Feb. 23; Sp. p. 5342; Gaz. vol. 139; p. 945.
- Zaccaria, A., and A. Belvedere, Uniontown, Pa. Car-trolley. No. 917,396; Apr. 6; Sp. p. 888; Gaz. vol. 141; p. 153.
- Zacharias, R. (See Sauerwein, Zacharias, and Lewis.)
- Zachary, A. A., assignor of one-half to W. E. Flood, Fort Worth, Tex. Washing-machine. No. 937,734; Oct. 19; Sp. p. 4444; Gaz. vol. 147; p. 754.
- Zachau, C. E. K., Muskegon, Mich. Brush-holder for dynamo-electric machines or motors. No. 924,716; June 15; Sp. p. 3488; Gaz. vol. 143; p. 600.
- Zachow, C. A., Fortville, Ind. Attachment for vehicles. No. 913,608; Feb. 23; Sp. p. 5347; Gaz. vol. 139; p. 946.
- Zackey, W. W., Philadelphia, Pa., assignor of forty-nine one-hundredths to C. B. Hewitt, Burlington, N. J. Sound-box for recording and reproducing machines. No. 930,715; Aug. 10; Sp. p. 2241; Gaz. vol. 145; p. 390.
- Zagora, J., Chicago, Ill. Starting device for explosive-engines. No. 920,515; May 4; Sp. p. 855; Gaz. vol. 142; p. 138.
- Zahn, C. L., Los Angeles, Cal., assignor of one-fourth to E. E. Clement, Washington, D. C. Telephone-exchange system. No. 938,541; Nov. 2; Sp. p. 226; Gaz. vol. 148; p. 33.
- Zahn, C. L., Los Angeles, Cal., assignor of one-fourth to E. E. Clement, Washington, D. C. Telephone-exchange system. No. 941,839; Nov. 30; Sp. p. 7471; Gaz. vol. 148; p. 1256.
- Zahn, O., Berlin, Germany. Making sodium sulfate and sulfuric acid. No. 921,329; May 11; Sp. p. 2541; Gaz. vol. 142; p. 440.
- Zahn, O., Berlin, Germany. Plant for heating the gas and air for combustion in gas-furnaces. No. 936,844; Oct. 12; Sp. p. 2594; Gaz. vol. 147; p. 433.
- Zahn, O. F., assignor to Zahn Self Righting Roller Bearing Company, Los Angeles, Cal. Self-righting roller-bearing. No. 915,529; Mar. 16; Sp. p. 3837; Gaz. vol. 140; p. 668.
- Zahn, R., Plauen, Germany. Tension device for the thread-delivery rollers in embroidering-machines. No. 920,233; May 4; Sp. p. 287; Gaz. vol. 142; p. 46.
- Zahn, R., Plauen, Germany. Embroidering-machine. No. 941,123; Nov. 23; Sp. p. 5915; Gaz. vol. 148; p. 995.
- Zahn Self Righting Roller Bearing Company. (See Zahn, O. F., assignor.)
- Zahniser, G. S., New Castle, Pa. Anti-rail-creeper. No. 911,356; Feb. 2; Sp. p. 655; Gaz. vol. 139; p. 111.
- Zahnter, E. P. (See Hill and Zahnter.)
- Zaiss, G. A. (See Niemann, W. G., assignor.)
- Zajac, J., Chicago, Ill. Automatic baby-carriage. No. 915,149; Mar. 16; Sp. p. 3103; Gaz. vol. 140; p. 545.
- Zaleski, S. J., assignor to Simplex Rail Fastener & Metallic Tie Co., Chicago, Ill. Metallic tie and rail-fastener. No. 917,831; Apr. 13; Sp. p. 1746; Gaz. vol. 141; p. 321.
- Zaleski, S. J., assignor to Simplex Rail Fastener & Metallic Tie Co., Chicago, Ill. Metallic tie and rail-fastener. No. 917,832; Apr. 13; Sp. p. 1748; Gaz. vol. 141; p. 321.
- Zalondek, A. A., Oklahoma, Okla. Flying-machine. No. 929,362; July 27; Sp. p. 5553; Gaz. vol. 144; p. 973.
- Zamboni, L., New York, N. Y., assignor, by mesne assignments, to C. A. Sterling, Orange, N. J. Reflector. No. 935,347; Sept. 28; Sp. p. 4783; Gaz. vol. 146; p. 846.
- Zamboni, L., New York, N. Y., assignor, by mesne assignments, to C. A. Sterling, Orange, N. J. Means for use in connection with combined reflectors or shades and electric lamps. No. 935,348; Sept. 28; Sp. p. 4785; Gaz. vol. 146; p. 846.
- Zander, J., assignor to Acetylene Apparatus Manufacturing Co., Chicago, Ill. Acetylene-generator. No. 940,110; Nov. 16; Sp. p. 3694; Gaz. vol. 148; p. 629.
- Zander, J. L., Newark, N. J. Mechanical pyrometer or heat-measuring device. No. 938,034; Oct. 26; Sp. p. 5074; Gaz. vol. 147; p. 873.
- Zane, R. B., *et al.* (See Emberger, W., assignor.)
- Zang, A. J., *et al.* (See Mentzer, C. E., assignor.)
- Zang, J. (See Griswold and Zang.)
- Zangrilli, R. (See Germani, G., assignor.)
- Zarembo Company. (See Mantius, O., assignor.)
- Zart, A. (See Hesse, Günther, and Zart.)
- Zastrow, G. W., Baltimore, Md. Machine for treating pineapples. No. 925,150; June 15; Sp. p. 4374; Gaz. vol. 143; p. 746.
- Zdanowski, F. J. and M. A., Philadelphia, Pa. Leather-staking machine. No. 915,530; Mar. 16; Sp. p. 3841; Gaz. vol. 140; p. 668.
- Zdanowski, M. A. (See Zdanowski, F. J. and M. A.)
- Zdziarski, V., New York, N. Y. Running-gear mechanism and brake apparatus for tramway-cars. No. 926,534; June 29; Sp. p. 7155; Gaz. vol. 143; p. 1264.
- Zech, N. P., Milwaukee, Wis. Car-brake. No. 938,935; Nov. 2; Sp. p. 1065; Gaz. vol. 148; p. 169.



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- Zechendorf, L. (See Roberts, C. T., assignor.)  
 Zechenelly, J. (See Gleason, Zechenelly, and Blum.)  
 Zecher, F. J., assignor to Barry and Zecher Co., Lancaster, Pa. Gearing. No. 921,937; May 18; Sp. p. 3797; Gaz. vol. 142; p. 668.  
 Zecher, S. (See Jones, R. V., assignor.)  
 Zeck, A., and F. Van Zeck, Grafton, W. Va. Heating apparatus. No. 919,110; Apr. 20; Sp. p. 4445; Gaz. vol. 141; p. 776.  
 Zeese, A. E., St. Louis, Mo. Nut-lock. No. 925,067; June 15; Sp. p. 4215; Gaz. vol. 143; p. 718.  
 Zehnder, W. D. (See Richards and Zehnder.)  
 Zehner, E. R., Toledo, Ohio. Bristle-drying machine. No. 938,542; Nov. 2; Sp. p. 234; Gaz. vol. 148; p. 34.  
 Zehrbach, H. D., assignor of one-half to A. D. Lugibihl, Bluffton, Ohio. Casting. No. 908,828; Jan. 5; Sp. p. 829; Gaz. vol. 138; p. 130.  
 Zeiders, J. H. and L. S., Harrisburg, Pa. Bed-spring. No. 909,504; Jan. 12; Sp. p. 2173; Gaz. vol. 138; p. 385.  
 Zeiders, L. S. (See Zeiders, J. H. and L. S.)  
 Zeidler, W. A., assignor to William A. Zeidler Company, New York, N. Y. Turn-down-collar-seam-dampening machine. No. 942,233; Dec. 7; Sp. p. 442; Gaz. vol. 149; p. 68.  
 Zeiger, A. I., Pittsburg, Pa. Bank. No. 922,834; May 25; Sp. p. 5145; Gaz. vol. 142; p. 989.  
 Zeigler, D. G., Atlanta, Ga. Composition of matter. No. 923,925; June 8; Sp. p. 1829; Gaz. vol. 143; p. 305.  
 Zeiss, A., Charlottenburg, and F. Rudert, assignors to Shannon-Registrator-Co. Aug. Zeiss & Co., Berlin, Germany. Cutting device for copying-machines. No. 938,199; Oct. 26; Sp. p. 5449; Gaz. vol. 147; p. 931.  
 Zeiss, Firm of C. (See Dönitz, E., assignor.)  
 Zeiss, Firm of C. (See Eppenstein, O., assignor.)  
 Zeiss, Firm of C. (See Hofe, C. von, assignor.)  
 Zeiss, Firm of C. (See König, A., assignor.)  
 Zeiss, Firm of C. (See Pulfrich, C., assignor.)  
 Zeiss, Firm of C. (See Rohr, M. von, assignor.)  
 Zeiss, Firm of C. (See Siedentop, H., assignor.)  
 Zeiss, Firm of C. (See Straubel, R., assignor.)  
 Zeiss, Firm of C. (See Straubel and Rohr, assignors.)  
 Zeiss, Firm of C. (See Wandersleb, E., assignor.)  
 Zeiss, Firm of C. (See Wild, H., assignor.)  
 Zeitschner, H., München-Gladbach, Germany. Sanitary building. No. 926,042; June 22; Sp. p. 6173; Gaz. vol. 143; p. 1066.  
 Zelch, J., St. Paul Park, Minn. Corrugated metallic culvert. No. 919,997; Apr. 27; Sp. p. 6486; Gaz. vol. 141; p. 1107.  
 Zele, F., Cleveland, Ohio. Railway-switch. No. 924,717; June 15; Sp. p. 3490; Gaz. vol. 143; p. 600.  
 Zele, F., Cleveland, Ohio. Electric signal for railway-switches. No. 929,363; July 27; Sp. p. 5555; Gaz. vol. 144; p. 974.  
 Zelewski, R. von, Engis, Belgium. Mechanical roasting-furnace. No. 915,531; Mar. 16; Sp. p. 3846; Gaz. vol. 140; p. 668.  
 Zell, A. F. (See Gilda, J. R., assignor.)  
 Zell, E., Gottenborg, Sweden, assignor to General Electric Company. Manufacture of pure lithium compounds. No. 935,880; Oct. 5; Sp. p. 607; Gaz. vol. 147; p. 87.  
 Zell, H., assignor to American Board and Box Co., Dayton, Ohio. Paper box. No. 921,197; May 11; Sp. p. 2252; Gaz. vol. 142; p. 396.  
 Zell, H. J., assignor to American Board and Box Co., Dayton, Ohio. Paper lunch-box. No. 938,406; Oct. 26; Sp. p. 5904; Gaz. vol. 147; p. 1001.  
 Zell, J. W., assignor of one-half to G. Pennell, Duncannon, Pa. Coal-dust burner. No. 942,696; Dec. 7; Sp. p. 1369; Gaz. vol. 149; p. 226.  
 Zeller, A. F., Baltimore, Md. Bottle-guide for bottle-filling machines. No. 933,518; Sept. 7; Sp. p. 1155; Gaz. vol. 146; p. 166.  
 Zengel, H. B., Passaic, N. J. Dental swaging apparatus. No. 910,631; Jan. 26; Sp. p. 4521; Gaz. vol. 138; p. 824.  
 Zenke, F. W., Meriden, Conn. Shoe-cleaner. No. 919,111; Apr. 20; Sp. p. 4448; Gaz. vol. 141; p. 777.  
 Zenke, H., Bridgewater, S. D. Propeller for boats. No. 937,735; Oct. 19; Sp. p. 4446; Gaz. vol. 147; p. 754.  
 Zeno Manufacturing Company. (See Mills, M. B., assignor.)  
 Zent, S. W., Miamisburg, Ohio. Cooling device for engine-cylinders. No. 927,702; July 13; Sp. p. 2085; Gaz. vol. 144; p. 362.  
 Zepf, J. P., and A. E. Coulthard, Peterborough, Ontario, Canada. Woven fabric. No. 926,310; June 29; Sp. p. 6748; Gaz. vol. 143; p. 1190.  
 Zerbe, J. A., Lebanon, Pa. Clothes-pin. No. 930,912; Aug. 10; Sp. p. 2663; Gaz. vol. 145; p. 456.  
 Zerkle, E. E., Chicago, Ill. Respiratory apparatus. No. 909,979; Jan. 19; Sp. p. 3122; Gaz. vol. 138; p. 577.  
 Zerkowitcz, O., Cleveland, Ohio. Automatic liquid-separator. No. 924,524; June 8; Sp. p. 3060; Gaz. vol. 143; p. 501.  
 Zerkowitcz, O., Cleveland, Ohio. Funnel-separator. No. 935,722; Oct. 5; Sp. p. 211; Gaz. vol. 147; p. 34.  
 Zerning, H., Halensee, near Berlin, Germany. Decarbonizing filaments for incandescent lamps. No. 908,930; Jan. 5; Sp. p. 1025; Gaz. vol. 138; p. 164.  
 Zeugschmidt, S., Pittsburg, Pa. Leather goods. No. 927,761; July 13; Sp. p. 2205; Gaz. vol. 144; p. 381.  
 Zickel, J., Berlin, Germany. Annunciator-board. No. 931,548; Aug. 17; Sp. p. 4038; Gaz. vol. 145; p. 696.  
 Ziegenberg, R., Berlin, Germany. Charging lead-peroxid-zinc storage batteries. No. 912,351; Feb. 16; Sp. p. 2747; Gaz. vol. 139; p. 501.  
 Ziegenfuss, F., assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Projectile. No. 932,229; Aug. 24; Sp. p. 5531; Gaz. vol. 145; p. 941.  
 Ziegler, A. T., Allegheny, Pa. Music-leaf turner. No. 909,505; Jan. 12; Sp. p. 2175; Gaz. vol. 138; p. 386.  
 Ziegler, A. T., Pittsburg, Pa. Electric control for pantographs. No. 938,936; Nov. 2; Sp. p. 1067; Gaz. vol. 148; p. 169.  
 Ziegler, B., East Liverpool, Ohio. Combined tobacco cartridge and stem. No. 932,937; Aug. 31; Sp. p. 6977; Gaz. vol. 145; p. 1198.  
 Ziegler, C. F., and R. A. Bartling, assignors to Reynolds Electric Flasher Manufacturing Company, Chicago, Ill. Electric-lighted sign. No. 912,639; Feb. 16; Sp. p. 3339; Gaz. vol. 139; p. 599.  
 Ziegler, E. L., Jackson, Miss. Machine for cutting window-stiles. No. 916,520; Mar. 30; Sp. p. 5842; Gaz. vol. 140; p. 1048.  
 Ziegler, H., Baltimore, Md. Chin-rest for violins. No. 925,068; June 15; Sp. p. 4216; Gaz. vol. 143; p. 718.  
 Ziegler, J., Philadelphia, Pa. Scraper. No. 925,259; June 15; Sp. p. 4576; Gaz. vol. 143; p. 782.  
 Ziegler, K., Nuremberg, Germany. Handsaw. No. 938,105; Oct. 26; Sp. p. 5234; Gaz. vol. 147; p. 898.  
 Ziehn, W. C. L. (See Schneider and Ziehn.)  
 Zielenski, C., Fullman, Ill. Lock. No. 911,192; Feb. 2; Sp. p. 332; Gaz. vol. 139; p. 58.  
 Zieme, C. H. (See Patterson, Mornes, and Zieme.)  
 Zieme, C. H., assignor of two-thirds to G. L. Patterson, W. R. Kinnear, and C. W. Johnson, New Castle, Pa. Coating with metals. No. 909,274; Jan. 12; Sp. p. 1720; Gaz. vol. 138; p. 309.  
 Zieme, C. H., assignor of one-third to G. L. Patterson, one-sixth to W. R. Kinnear, and one-sixth to C. W. Johnson, New Castle, Pa. Depositing metals. No. 934,704; Sept. 21; Sp. p. 3486; Gaz. vol. 146; p. 607.  
 Ziemsen, F. C., Kluss, near Wismar, Germany. Device for cutting away reeds and water-plants growing in ponds and rivers. No. 911,357; Feb. 2; Sp. p. 657; Gaz. vol. 139; p. 112.  
 Ziemss, H., Jr., Chicago, Ill. Brake-beam. No. 923,475; June 1; Sp. p. 812; Gaz. vol. 143; p. 121.  
 Ziemss, H., Jr., Chicago, Ill. Brake-beam. No. 940,417; Nov. 16; Sp. p. 4394; Gaz. vol. 148; p. 735.  
 Zierlein, R. W., assignor of one-fourth to E. A. Horst, St. Louis, Mo. Vapor-burning lamp. No. 930,451; Aug. 10; Sp. p. 1663; Gaz. vol. 145; p. 301.  
 Zierlein, R. W., assignor of one-fourth to J. C. Goebel and three-fourths to Modern Gasoline Lighting Company, St. Louis, Mo. Vapor-generator. No. 931,664; Aug. 17; Sp. p. 4282; Gaz. vol. 145; p. 731.  
 Zifferer, L. R., San Francisco, Cal. Anchor-lock for building structures. No. 943,906; Dec. 21; Sp. p. 4032; Gaz. vol. 149; p. 698.  
 Zillgitt, C. J., and W. K. Stebbins, Fairmount, N. D.; said Zillgitt assignor to said Stebbins. Check-valve. No. 915,648; Mar. 16; Sp. p. 4113; Gaz. vol. 140; p. 711.  
 Zilliox, J., Buffalo, N. Y. Boiler-tube cleaner. No. 931,245; Aug. 17; Sp. p. 3431; Gaz. vol. 145; p. 595.  
 Zilliox, J., Buffalo, N. Y. Boiler-tube cleaner. No. 933,519; Sept. 7; Sp. p. 1156; Gaz. vol. 146; p. 167.  
 Zimmer, A. E., Butler, assignor to Standard Steel Car Company, Pittsburg, Pa. Non-chattering brake-hanger. No. 910,160; Jan. 19; Sp. p. 3474; Gaz. vol. 138; p. 636.  
 Zimmer, C., Barcelona, Spain. Mashing process. No. 934,783; Sept. 21; Sp. p. 3627; Gaz. vol. 146; p. 632.  
 Zimmer, J. P., assignor of one-half to G. E. Stowall, Minneapolis, Minn. Pipe or culvert joint. No. 914,909; Mar. 9; Sp. p. 2623; Gaz. vol. 140; p. 440.  
 Zimmer, P. H., Schenectady, N. Y., assignor to General Electric Company. Rheostat. No. 917,700; Apr. 6; Sp. p. 1433; Gaz. vol. 141; p. 252.  
 Zimmer, P. H., Schenectady, N. Y., assignor to General Electric Company. Starting-rheostat. No. 919,998; Apr. 27; Sp. p. 6486; Gaz. vol. 141; p. 1108.  
 Zimmer, P. H., Schenectady, N. Y., assignor to General Electric Company. Rheostat. No. 925,069; June 15; Sp. p. 4217; Gaz. vol. 143; p. 718.  
 Zimmerer, K. A., Detroit, Mich. Metallic beer-keg. No. 933,520; Sept. 7; Sp. p. 1160; Gaz. vol. 146; p. 167.  
 Zimmermann, F. M., Aurora, Ill. Switch mechanism for trolley-wires. No. 927,917; July 13; Sp. p. 2544; Gaz. vol. 144; p. 433.

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- Zimmerman, H., Fremont, Ohio. Bracket. No. 914,774; Mar. 9; Sp. p. 2359; Gaz. vol. 140; p. 396.
- Zimmerman, H., Fremont, Ohio. Article-turner. No. 917,833; Apr. 13; Sp. p. 1749; Gaz. vol. 141; p. 321.
- Zimmerman, H., Fremont, Ohio. Shutter-fastener. No. 921,781; May 18; Sp. p. 3480; Gaz. vol. 142; p. 619.
- Zimmerman, H., Fremont, Ohio. Sill-plate for shutter-bowers. No. 921,782; May 18; Sp. p. 3481; Gaz. vol. 142; p. 619.
- Zimmerman, H., Fremont, Ohio. Sill-plate. No. 921,783; May 18; Sp. p. 3482; Gaz. vol. 142; p. 619.
- Zimmerman, H., Fremont, Ohio. Shutter-bower. No. 921,784; May 18; Sp. p. 3483; Gaz. vol. 142; p. 619.
- Zimmerman, H., Fremont, Ohio. Shutter-bower. No. 921,785; May 18; Sp. p. 3485; Gaz. vol. 142; p. 620.
- Zimmerman, H., Fremont, Ohio. Shutter bower and fastener. No. 930,260; Aug. 3; Sp. p. 1300; Gaz. vol. 145; p. 214.
- Zimmerman, H., Fremont, Ohio. Shutter bower and fastener. No. 930,261; Aug. 3; Sp. p. 1301; Gaz. vol. 145; p. 215.
- Zimmerman, H., Fremont, Ohio. Shutter-bower. No. 930,262; Aug. 3; Sp. p. 1302; Gaz. vol. 145; p. 215.
- Zimmerman, H., Fremont, Ohio. Material-cutter. No. 931,830; Aug. 24; Sp. p. 4669; Gaz. vol. 145; p. 809.
- Zimmerman, I. F., Coffeyville, Kans. Burner. No. 908,636; Jan. 5; Sp. p. 433; Gaz. vol. 138; p. 70.
- Zimmerman, J. G., Milwaukee, Wis. Coupling. No. 931,173; Aug. 17; Sp. p. 3270; Gaz. vol. 145; p. 570.
- Zimmermann, C. R., and V. G. Gustafson, Joliet, Ill. Signaling device for graves. No. 925,260; June 15; Sp. p. 4577; Gaz. vol. 143; p. 783.
- Zimmermann, G. A., Renscheid, Germany. Saw. No. 921,330; May 11; Sp. p. 2541; Gaz. vol. 142; p. 440.
- Zimmermann, H. (See Bartholomae, W., assignor.)
- Zimmermann, J. E., Willow Grove, Pa., assignor to American Pulley Company. Sheet-metal pulley. No. 909,506; Jan. 12; Sp. p. 2180; Gaz. vol. 138; p. 386.
- Zimmermann, J. H., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Terminal structure for electrical apparatus. No. 921,053; May 11; Sp. p. 1945; Gaz. vol. 142; p. 345.
- Zimmermann, J. H., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Magnet-support for electrical measuring instruments. No. 921,054; May 11; Sp. p. 1946; Gaz. vol. 142; p. 346.
- Zimmermann, O., Magdeburg-Buckau, Germany. Briquet-press. No. 911,104; Feb. 2; Sp. p. 155; Gaz. vol. 139; p. 29.
- Zimmermann, O., Ludwigshafen-on-the-Rhine, Germany. Formation of stacks of tubes. No. 935,723; Oct. 5; Sp. p. 213; Gaz. vol. 147; p. 34.
- Zimmermann, R., Chicago, Ill. Garment-supporter. No. 920,234; May 4; Sp. p. 288; Gaz. vol. 142; p. 46.
- Zimmerman, R. M., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Door-operating mechanism. No. 942,234; Dec. 7; Sp. p. 447; Gaz. vol. 149; p. 69.
- Zimmerman, W., Chicago, Ill., assignor of one-third to E. Moehrlin. Molding mechanism. No. 939,581; Nov. 9; Sp. p. 2510; Gaz. vol. 148; p. 415.
- Zimmermann, W. F., Newark, N. J. Mechanical movement. No. 909,126; Jan. 5; Sp. p. 1431; Gaz. vol. 138; p. 229.
- Zimmermann, W. F., Newark, N. J. Cutting gears. No. 915,923; Mar. 23; Sp. p. 4657; Gaz. vol. 140; p. 826.
- Zimmermann, W. F., assignor to Gould & Eberhardt, Newark, N. J. Work-support for metal-working machines. No. 940,418; Nov. 16; Sp. p. 4396; Gaz. vol. 148; p. 736.
- Zimmermann, W. P., Schöneberg, near Berlin, Germany. Mechanism for manufacturing chenille strips. No. 931,365; Aug. 17; Sp. p. 3690; Gaz. vol. 145; p. 638.
- Zimmerschied, A. C., Topeka, Kans. Seam-binder for floor-coverings. No. 933,611; Sept. 7; Sp. p. 1333; Gaz. vol. 146; p. 198.
- Zinco, C. W., Albany, N. Y. Piano. No. 910,632; Jan. 26; Sp. p. 4523; Gaz. vol. 138; p. 824.
- Zindel, B., Green Bay, Wis. Pressure-regulator. No. 919,513; Apr. 27; Sp. p. 5504; Gaz. vol. 141; p. 946.
- Zingsheim, F. W., Ferguson, assignor to Moon Brothers Carriage Company, St. Louis, Mo. Carriage. No. 930,716; Aug. 10; Sp. p. 2243; Gaz. vol. 145; p. 390.
- Zinke, B., Saarbrücken, Germany. Piston-rod coupling. No. 919,112; Apr. 20; Sp. p. 4448; Gaz. vol. 141; p. 777.
- Zinn, E., Brooklyn, N. Y. Tool-handle. No. 941,901; Nov. 30; Sp. p. 7595; Gaz. vol. 148; p. 1278.
- Zinn, J. H., Indianapolis, Ind. Sewer construction. No. 932,743; Aug. 31; Sp. p. 6592; Gaz. vol. 145; p. 1136.
- Zinn, S. (See Schmidt, W., assignor.)
- Zinow, C., assignor of one-half to L. Solomon, Detroit, Mich. Bolt and nut lock. No. 930,450; Aug. 10; Sp. p. 1662; Gaz. vol. 145; p. 301.
- Zipfel, B., assignor of one-half to E. C. Zipfel, Toledo, Ohio. Top. No. 924,718; June 15; Sp. p. 3491; Gaz. vol. 143; p. 601.
- Zipfel, E. C. (See Zipfel, B., assignor.)
- Zipp, H. L. (See Dean and Zipp.)
- Zippler, M., Jr., executor. (See Zippler, M., Sr.)
- Zippler, M., Sr., deceased, Pittsburg, Pa.; M. Zippler, Jr., executor. Furnace. No. 942,872; Dec. 7; Sp. p. 1754; Gaz. vol. 149; p. 284.
- Ziron, F., New York, N. Y. Permutation-lock. No. 924,871; June 15; Sp. p. 3818; Gaz. vol. 143; p. 653.
- Zister, G., Chicago, Ill. Sheet-piling. No. 932,230; Aug. 24; Sp. p. 5532; Gaz. vol. 145; p. 942.
- Zister, G., Chicago, Ill. Sheet-piling. No. 932,231; Aug. 24; Sp. p. 5533; Gaz. vol. 145; p. 942.
- Zitzmann, A. J., assignor to Cleveland Art Metal Company, Cleveland, Ohio. Elevator-door. No. 913,181; Feb. 23; Sp. p. 4450; Gaz. vol. 139; p. 802.
- Zobelein, G., et al. (See Rademacher, F., assignor.)
- Zobler, O., Chicago, Ill. Oil-sealing tank. No. 909,733; Jan. 12; Sp. p. 2628; Gaz. vol. 138; p. 464.
- Zoerb, C. P., Stockton, Cal. Filling-case. No. 909,734; Jan. 12; Sp. p. 2630; Gaz. vol. 138; p. 464.
- Zollinger, A., Leipzig-Eutritzsch, assignor to Popper & Company, Leipzig, Germany. Endless bow for piano-violins. No. 918,637; Apr. 20; Sp. p. 3445; Gaz. vol. 141; p. 621.
- Zollinger, L. R., Philadelphia, Pa. Anticreeping tie-plate and rail-joint support. No. 921,576; May 11; Sp. p. 3029; Gaz. vol. 142; p. 520.
- Zolman, L. F. (See Parton, W. H., assignor.)
- Zook, E. B., Leola, Pa. Gearing. No. 916,521; Mar. 30; Sp. p. 5844; Gaz. vol. 140; p. 1048.
- Zook, E. B., Leola, Pa. Pump-jack. No. 931,831; Aug. 24; Sp. p. 4671; Gaz. vol. 145; p. 809.
- Zook, H. W., Easton, Pa., assignor to Ingersoll-Rand Company New York, N. Y. Electrically-controlled valve-operating mechanism. No. 925,673; June 22; Sp. p. 5390; Gaz. vol. 143; p. 944.
- Zook, T. L., assignor, by mesne assignments, to Toy Parachute Company, Lima, Ohio. Parachute. No. 930,452; Aug. 10; Sp. p. 1664; Gaz. vol. 145; p. 301.
- Zorge, R. J. (See Flora and Zorge.)
- Zorge Safety Railway Equipment Company. (See Flora and Zorge, assignors.)
- Zschech, G. H., deceased, Berwyn; J. F. Devine, administrator, assignor to Standard Machinery Company, Chicago, Ill. Vacuum-pump. No. 940,913; Nov. 23; Sp. p. 5458; Gaz. vol. 148; p. 925.
- Zschokke, A. J., Sunnyvale, Cal. Puzzle. No. 928,833; July 20; Sp. p. 4406; Gaz. vol. 144; p. 768.
- Zschokke, W., Steglitz, near Berlin, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Objective. No. 912,352; Feb. 16; Sp. p. 2749; Gaz. vol. 139; p. 501.
- Zschweigert, R., Plauen, Germany. Welt-replenishing loom. No. 933,813; Sept. 14; Sp. p. 1732; Gaz. vol. 146; p. 287.
- Zubillaga, J. (See Altolaguirre and Zubillaga.)
- Zubli, J. C., Seattle, Wash. Prism for electric lamps. No. 909,507; Jan. 12; Sp. p. 2182; Gaz. vol. 138; p. 387.
- Zuch, J. W., assignor to Lennox Furnace Co., Marshalltown, Iowa. Hot-air wall-pipe. No. 931,174; Aug. 17; Sp. p. 3271; Gaz. vol. 145; p. 570.
- Zuchtman, S., New York, N. Y. Lock-nut. No. 937,269; Oct. 19; Sp. p. 3484; Gaz. vol. 147; p. 602.
- Zucker & Levett & Loeb Company. (See Backus, C. G., assignor.)
- Zuckerfabrik Frankenthal. (See Spannagel, C., assignor.)
- Zuckriegel, P., Cleveland, Ohio. Abdominal supporter and suspensory. No. 908,533; Jan. 5; Sp. p. 214; Gaz. vol. 138; p. 38.
- Zuech, A. T., and G. H. Diemer, Trinidad, Colo. Shaker for fire-grates. No. 942,029; Nov. 30; Sp. p. 7830; Gaz. vol. 148; p. 1319.
- Zuill, W. J., Syracuse, N. Y. Washing-machine. No. 927,918; July 13; Sp. p. 2546; Gaz. vol. 144; p. 433.
- Zum Brunnen, G. (See Zum Brunnen, J. D., H. A., G., J., and L.)
- Zum Brunnen, H. A. (See Zum Brunnen, J. D., H. A., G., J., and L.)
- Zum Brunnen, J. (See Zum Brunnen, J. D., H. A., G., J., and L.)
- Zum Brunnen, J. D., H. A., G., J., and L., Monticello, Minn. Scraper. No. 932,954; Aug. 31; Sp. p. 7004; Gaz. vol. 145; p. 1204.
- Zum Brunnen, L. (See Zum Brunnen, J. D., H. A., G., J., and L.)
- Zünd-Burguet, A., Paris, France. Exercising apparatus. No. 913,799; Mar. 2; Sp. p. 257; Gaz. vol. 140; p. 43.
- Zurn, C. M., Bridgeton, N. J. Machine for producing glass insulators. No. 937,137; Oct. 19; Sp. p. 3191; Gaz. vol. 147; p. 559.
- Zwald, S., Portland, Ore. Machine for removing nap from carpet-seams. No. 943,613; Dec. 14; Sp. p. 3405; Gaz. vol. 149; p. 569.
- Zweigberg, T. von, Preston, England, assignor, by mesne assignments, to General Electric Company. Resistance. No. 912,267; Feb. 9; Sp. p. 2524; Gaz. vol. 139; p. 434.
- Zweigberg, T. von, Preston, England, assignor, by mesne assignments, to General Electric Company. Controller. No. 918,638; Apr. 20; Sp. p. 3445; Gaz. vol. 141; p. 621.
- Zwermann, C. H., Kalamazoo, Mich. Sheet-metal tank. No. 921,780; May 18; Sp. p. 3478; Gaz. vol. 142; p. 618.
- Zwermann, C. H., Kalamazoo, Mich. Tank. No. 932,530; Aug. 31; Sp. p. 6128; Gaz. vol. 145; p. 1063.
- Zwermann, C. H., Kalamazoo, Mich. Flushing device. No. 943,131; Dec. 14; Sp. p. 2383; Gaz. vol. 149; p. 405.



*Alphabetical list of patentees—Continued.*

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- Zwermann, T., Kalamazoo, Mich. Flush-tank. No. 926,633; June 29; Sp. p. 7349; Gaz. vol. 143; p. 1297.  
 Zwermann, T., Kalamazoo, Mich. Float-ball for flushing-tanks. No. 935,448; Sept. 28; Sp. p. 4968; Gaz. vol. 146; p. 877.  
 Zwicker, J. G., Mexico, Mexico. Floor and roof construction. No. 929,364; July 27; Sp. p. 5557; Gaz. vol. 144; p. 974.  
 Zwicky, H., Schindellegi, Switzerland. Weft-replenishing mechanism for looms. No. 926,918; July 6; Sp. p. 446; Gaz. vol. 144; p. 72.  
 Zwiesler, A., assignor to Burkhardt Furniture Co., Dayton, Ohio. Library-table. No. 929,365; July 27; Sp. p. 5559; Gaz. vol. 144; p. 974.  
 Zwiller, E., Stockholm, Sweden. Door-latch. No. 923,233; June 1; Sp. p. 234; Gaz. vol. 143; p. 38.  
 Zwingenberger, O. K., New York, N. Y. Gas-producer. No. 942,361; Dec. 7; Sp. p. 695; Gaz. vol. 149; p. 113.  
 Zwingenberger, O. K., New York, N. Y. Detining tin scraps and producing tin compounds. No. 943,508; Dec. 14; Sp. p. 3172; Gaz. vol. 149; p. 533.  
 Zwirman, M., Pittsburg, assignor of one-fourth to L. Kessler, Duquesne, and one-fourth to H. Marks, Pittsburg, Pa. Dispensing-tank. No. 944,472; Dec. 28; Sp. p. 5238; Gaz. vol. 149; p. 917.
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# ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

- Adams, F. O., Pittsburg, Pa. Inverted incandescent-gas-lamp body. No. 40,161; July 20; Gaz. vol. 144; p. 802.  
 Ahrenfeldt, C. J., New York, N. Y. Covered dish or similar article. No. 39,915; Apr. 13; Gaz. vol. 141; p. 548.  
 Ahrenfeldt, C. J., New York, N. Y. Plate or similar article. No. 39,916; Apr. 13; Gaz. vol. 141; p. 548.  
 Aizenman, J., New York, N. Y. Mantel-cover. No. 40,371; Nov. 23; Gaz. vol. 148; p. 1073.  
 Alart & McGuire. (See Annis, R. B., assignor.)  
 Alford, R., Seattle, Wash. Badge. No. 40,114; July 6; Gaz. vol. 144; p. 258.  
 Altman, M., Chicago, Ill. Menu-card. No. 39,912; Apr. 13; Gaz. vol. 141; p. 547.  
 American Can Company. (See Freundt, L. J., assignor.)  
 American Sanitary Works. (See Tilden, B. O., assignor.)  
 American Seating Company. (See Cogger, W. B., assignor.)  
 American Type Founders Company. (See Parker, W. A., assignor.)  
 Ames, W. M., Los Angeles, Cal. Filing-cabinet. No. 40,270; Sept. 21; Gaz. vol. 146; p. 703.  
 Anderson, F. O., Jamestown, N. Y. Dresser. No. 40,145; July 13; Gaz. vol. 144; p. 547.  
 Angiulli, L., New York, N. Y. Automobile-born. Nos. 40,251-3; Sept. 7; Gaz. vol. 146; p. 242.  
 Annis, R. B., assignor to Alart & McGuire, New York, N. Y. Bottle. No. 39,840; Feb. 23; Gaz. vol. 139; p. 971.  
 Anthony, E. W., Brookline, Mass. Stove. No. 39,888; Mar. 16; Gaz. vol. 140; p. 739.  
 Anthony, J. W., Lynn, Mass. Metal ornament. No. 40,008; May 25; Gaz. vol. 142; p. 1093.  
 Anthony, J. W., Lynn, Mass. Metal ornament. No. 40,228; Aug. 17; Gaz. vol. 145; p. 751.  
 Apfel, A. H., Chicago, Ill. Massaging-implement case. No. 40,158; July 20; Gaz. vol. 144; p. 802.  
 Armant, E., Binghamton, N. Y. Sachet or perfume container. No. 39,854; Mar. 2; Gaz. vol. 140; p. 239.  
 Armstrong, A., Los Angeles, Cal. Badge. No. 40,115; July 6; Gaz. vol. 144; p. 258.  
 Arneson, O. A., Chicago, Ill. Gasolene-lamp. No. 39,789; Jan. 26; Gaz. vol. 138; p. 949.  
 Ashworth, H., and A. D. Welch, Kennebunkport, Me. Junction-box. No. 39,911; Apr. 6; Gaz. vol. 141; p. 271.  
 Auer, G. S., Cleveland, Ohio. Wall-register. No. 40,038; June 8; Gaz. vol. 143; p. 542.  
 B. A. Ballou & Company. (See Dixon, A. E., assignor.)  
 Babst, J., assignor to William Schimper & Company, Hoboken, N. J. Holder for pocket-books. Nos. 40,174-5; July 27; Gaz. vol. 144; pp. 1069-70.  
 Baker, A. Z., New York, N. Y. Doll-pattern. No. 39,979; May 4; Gaz. vol. 142; p. 270.  
 Baker, A. Z., New York, N. Y. Doll-pattern. No. 40,047; June 8; Gaz. vol. 143; p. 543.  
 Baker Motor Vehicle Company. (See Remde, E. H., assignor.)  
 Barna, J. W., Chicago, Ill. Shoe. No. 39,893; Mar. 23; Gaz. vol. 140; p. 988.  
 Bauer, R. S., Lynn, Mass. Casing for mechanical toys. No. 39,776; Jan. 19; Gaz. vol. 138; p. 752.  
 Baxter, F., Passaic, N. J. Tea-cup. No. 40,365; Nov. 23; Gaz. vol. 148; p. 1072.  
 Baxter, N. J., Farnassus, Pa. Spoon. No. 40,210; Aug. 10; Gaz. vol. 145; p. 494.  
 Beach, H. L., Coshocton, Ohio. Display-stand. No. 39,816; Feb. 9; Gaz. vol. 139; p. 445.  
 Beattie, H. W., Quincy, Mass., assignor to Sill Stove Works, Rochester, N. Y. Stove. No. 40,356; Nov. 16; Gaz. vol. 148; p. 817.  
 Beadent, E. A., Erie, assignor to Glen Manufacturing Company, Ellwood City, Pa. Fabric for mats. No. 40,421; Dec. 28; Gaz. vol. 149; p. 1103.  
 Beatar, K., New York, N. Y. Rosary-bracelet. No. 40,321; Oct. 26; Gaz. vol. 147; p. 1020.  
 Belasco, I. D., Chicago, Ill. Gem-setting. No. 40,005; May 25; Gaz. vol. 142; p. 1093.  
 Belding-Hall Company. (See Rose, M., assignor.)  
 Bell, J. W., Dennyssville, Me. Rack for holding articles. No. 40,061; June 15; Gaz. vol. 143; p. 846.  
 Benedict Mfg. Co. (See Saunders, A. F., assignor.)  
 Benjamin Electric Manufacturing Company. (See Benjamin, R. B., assignor.)  
 Benjamin, R. B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-lamp socket. No. 40,380; Nov. 30; Gaz. vol. 148; p. 1327.  
 Benjamin, R. B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-light cluster. No. 40,407; Dec. 21; Gaz. vol. 149; p. 814.  
 Berry, G. H., Shelton, assignor to International Silver Company, Meriden, Conn. Back for mirrors, brushes, and similar toilet articles. Nos. 40,314-15; Oct. 19; Gaz. vol. 147; p. 759.  
 Bertram, W. L. (See Cope and Bertram.)  
 Bigelow Carpet Company. (See Elliot, W. A., assignor.)  
 Bigelow Carpet Company. (See Gauer, E. G., assignor.)  
 Billig, I. (See Soltmann and Billig.)  
 Birmingham, J. E., assignor to Shreve & Co., San Francisco, Cal. Handle of spoons, forks, or similar articles. Nos. 39,739-40; Jan. 5; Gaz. vol. 138; p. 233.  
 Birmingham, J. E., assignor to Shreve & Co., San Francisco, Cal. Handle of spoons, forks, or similar articles. No. 39,751; Jan. 12; Gaz. vol. 138; p. 505.  
 Birmingham, J. E., assignor to Shreve & Co., San Francisco, Cal. Handle of spoons, forks, or similar articles. No. 39,800; Feb. 2; Gaz. vol. 139; p. 180.  
 Birmingham, J. E., assignor to Shreve & Company, San Francisco, Cal. Handle of spoons, forks, or similar articles. Nos. 40,330-1; Nov. 2; Gaz. vol. 148; p. 264.  
 Blanchard, C. A., Pittsburg, Pa. Vessel. No. 39,896; Mar. 30; Gaz. vol. 140; p. 1192.  
 Boeck, A. A., New York, N. Y. Fabric for window-shades and the like. Nos. 40,303-5; Oct. 12; Gaz. vol. 147; p. 500.  
 Boeck, A. A., New York, N. Y. Fabric for window-shades or similar articles. Nos. 40,422-3; Dec. 28; Gaz. vol. 149; p. 1103.  
 Boigner, M., Chicago, Ill. Bath-tub for bird-cages. No. 39,869; Mar. 9; Gaz. vol. 140; p. 490.  
 Boldt, C., Cincinnati, Ohio. Bottle. No. 39,921; Apr. 20; Gaz. vol. 141; p. 845.  
 Boman, C. W., assignor to Eagle Pencil Company, New York, N. Y. Propelling-pencil. No. 39,906; Apr. 6; Gaz. vol. 141; p. 270.  
 Bomeisler, C., New York, N. Y. Corn-holder. No. 39,815; Feb. 9; Gaz. vol. 139; p. 445.  
 Bond, C., Brooklyn, N. Y. Dish. No. 40,244; Aug. 31; Gaz. vol. 145; p. 1236.  
 Booth, K., assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Artificial-light shade. No. 40,176; July 27; Gaz. vol. 144; p. 1070.  
 Booth, K., assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Artificial-light shade. No. 40,354; Nov. 16; Gaz. vol. 148; p. 816.  
 Booth, K., assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Artificial-light shade. No. 40,378; Nov. 30; Gaz. vol. 148; p. 1326.  
 Booth, K., assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Artificial-light shade. No. 40,408; Dec. 21; Gaz. vol. 149; p. 814.  
 Bourn Rubber Co. (See McKenna, F. R., assignor.)  
 Bowman, C. H., assignor to Breuker & Kessler Company, Philadelphia, Pa. Box-paper. No. 39,913; Apr. 13; Gaz. vol. 141; p. 547.  
 Boyden, F. S., Chicago, Ill. Brooch. No. 40,349; Nov. 16; Gaz. vol. 148; p. 815.  
 Bradford, F. L., St. Joseph, Mich. Purse. No. 39,824; Feb. 16; Gaz. vol. 139; p. 714.  
 Bradford, F. L., St. Joseph, Mich. Purse. No. 39,955; May 4; Gaz. vol. 142; p. 265.  
 Bragg, H. A., Seattle, Wash. Souvenir badge. No. 39,850; Mar. 2; Gaz. vol. 140; p. 238.  
 Bray, A., Leeds, England. Vertical inverted incandescent gas-burner. No. 40,346; Nov. 9; Gaz. vol. 148; p. 553.  
 Breuker & Kessler Company. (See Bowman, C. H., assignor.)  
 Breuker & Kessler Company. (See Simpson, M., assignor.)  
 Bright, C. E., Columbus, Ohio. Hat-trimming. No. 40,194; July 27; Gaz. vol. 144; p. 1073.  
 Bristol Brass Company. (See Large, S. J., assignor.)  
 Bromley & Sons, J. (See Petzold, A., assignor.)  
 Bronson, M. C., Rockville, Conn. Sweater. No. 39,894; Mar. 23; Gaz. vol. 140; p. 988.  
 Brotherhood of Railroad Trainmen. (See Lee and King, assignors.)  
 Brown, E., Paterson, N. J. Knitted fabric. No. 39,999; May 18; Gaz. vol. 142; p. 838.  
 Brunswick-Balke-Collender Company. (See Hine, C., assignor.)  
 Bunnell, S. H., assignor to Griscom-Spencer Company, New York, N. Y. Ice-cream-freezer casing. No. 40,381; Nov. 30; Gaz. vol. 149; p. 1327.



*Alphabetical list of patentees of designs—Continued.*

- Burchard, S., Brookline, Mass. Knitted bonnet. No. 39,940; Apr. 20; Gaz. vol. 141; p. 848.  
 Burgess, J. J. and S. P., Rock Island, Ill. Grill. No. 40,291; Oct. 12; Gaz. vol. 147; p. 497.  
 Burgess, S. P. (See Burgess, J. J. and S. P.)  
 Bush, W. E., Jersey City, N. J. Badge. No. 39,848; Mar. 2; Gaz. vol. 140; p. 238.  
 Butcher, J. J., Boston, Mass. Flag. No. 40,067; June 22; Gaz. vol. 143; p. 1084.  
 Butz, W. D., Norristown, Pa. Article of hosiery. No. 40,066; June 15; Gaz. vol. 143; p. 847.  
 C. Weinberg & Co. (See Weinberg, C., assignor.)  
 Cahill Iron Works. (See Caldwell, F. H., assignor.)  
 Caldwell & Co., J. E. (See Thomas, J. F., assignor.)  
 Caldwell, F. H., Lookout Mountain, assignor to Cahill Iron Works, Chattanooga, Tenn. Sink. No. 40,064; June 15; Gaz. vol. 143; p. 846.  
 Caldwell, F. H., Lookout Mountain, assignor to Cahill Iron Works, Chattanooga, Tenn. Sink. No. 40,088; June 22; Gaz. vol. 143; p. 1088.  
 Cambridge Novelty Company. (See Lightbody, F. J., assignor.)  
 Cantner, F. E. (See McNamara and Cantner.)  
 Cariddi, J. (See Melillo and Cariddi.)  
 Chance Brothers and Co. (See Woodward, T. J., assignor.)  
 Charbneau, J. L., Seattle, Wash. Medal and emblem. No. 39,866; Mar. 9; Gaz. vol. 140; p. 489.  
 Chartrey, R., San Francisco, Cal. Street-electroliter. No. 39,841; Feb. 23; Gaz. vol. 139; p. 971.  
 Cheney Brothers. (See Gattiker, R., assignor.)  
 Cheney Brothers. (See Mouton, P., assignor.)  
 Cheney Brothers. (See Scheidecker, P., assignor.)  
 Cheney Brothers. (See Sims, E., assignor.)  
 Chubbuck, B. A., Medina, N. Y. Clock-case. No. 40,126; July 6; Gaz. vol. 144; p. 260.  
 Clark, T. B., Honesdale, Pa. Cut-glass dish. No. 40,213; Aug. 10; Gaz. vol. 145; p. 495.  
 Clungeon, E. A., assignor to G. A. Reach, Philadelphia, Pa. Sign-board. No. 40,144; July 13; Gaz. vol. 144; p. 547.  
 Cocco, J. J., New York, N. Y. Badge. No. 39,941; Apr. 27; Gaz. vol. 141; p. 1146.  
 Cocco, J. J., Brooklyn, N. Y. Badge. No. 40,099; June 29; Gaz. vol. 143; p. 1327.  
 Codman, W. C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle of spoons, forks, or similar articles. Nos. 40,119-20; July 6; Gaz. vol. 144; pp. 258-9.  
 Codman, W. C., assignor to Gorham Manufacturing Company, Providence, R. I. Coffee-pot. No. 40,156; July 20; Gaz. vol. 144; p. 801.  
 Codman, W. C., assignor to Gorham Manufacturing Company, Providence, R. I. Tray or similar article. No. 40,240; Aug. 31; Gaz. vol. 145; p. 1236.  
 Codman, W. C., assignor to Gorham Manufacturing Company, Providence, R. I. Teapot or similar article. No. 40,366; Nov. 23; Gaz. vol. 148; p. 1072.  
 Cogger, W. B., Grand Rapids, Mich., assignor to American Seating Company, Chicago, Ill. School-desk standard. No. 40,044; June 8; Gaz. vol. 143; p. 543.  
 Cohn, C. W., New York, N. Y. Display-case. No. 40,190; July 27; Gaz. vol. 144; p. 1072.  
 Cohn, S., New York, N. Y. Label-blank. No. 40,263; Sept. 14; Gaz. vol. 146; p. 492.  
 Cohn, T., New York, N. Y. Sheet-metal plate. No. 40,323; Oct. 26; Gaz. vol. 147; p. 1020.  
 Colburn, S. M., assignor to Flour City Ornamental Iron Works, Minneapolis, Minn. Street-lamp. No. 39,759; Jan. 12; Gaz. vol. 138; p. 506.  
 Cole, L. A., Boston, assignor to G. & C. Merriam Company, Springfield, Mass. Book-cover. No. 40,403; Dec. 14; Gaz. vol. 149; p. 583.  
 Comerford, G. C. (See Grant, F. M., assignor.)  
 Complex Aural Company. (See Valiquet, L. P., assignor.)  
 Cooperative Foundry Company. (See Kennedy and King.)  
 Cope, G. W., and W. L. Bertram, Detroit, Mich., assignors to Howard Stove Co., Beaver Falls, Pa. Stove. No. 39,969; May 4; Gaz. vol. 142; p. 268.  
 Cope, G. W., and W. L. Bertram, Detroit, Mich., assignors to Economy Stove Company, Cleveland, Ohio. Stove. No. 40,271; Sept. 21; Gaz. vol. 146; p. 703.  
 Copland & Mittenenthal. (See Mittenenthal, A., assignor.)  
 Crane, R. E., Cameron, W. Va. Water-tank. No. 40,188; July 27; Gaz. vol. 144; p. 1072.  
 Crane, R. E., Cameron, W. Va. Lavatory-bowl. No. 40,401; Dec. 14; Gaz. vol. 149; p. 582.  
 Crane, W. M., New York, N. Y., assignor to William M. Crane Company. Gas-range. No. 40,058; June 15; Gaz. vol. 143; p. 845.  
 Cribben & Sexton Company. (See Harter, A. F., assignor.)  
 Crook, J. E., Providence, R. I. Collar-supporter. No. 39,939; Apr. 20; Gaz. vol. 141; p. 848.  
 Crowell, G. L., Jr., Arlington, N. J., assignor to Dominick & Haff, New York, N. Y. Spoon, fork, or similar article. No. 40,124; July 6; Gaz. vol. 144; p. 260.  
 Crowell, G. L., Jr., Arlington, N. J., assignor to Dominick & Haff, New York, N. Y. Spoon, fork, or similar article. No. 40,350; Nov. 16; Gaz. vol. 148; p. 815.  
 Cruver, C. L., Chicago, Ill. Double top. No. 39,757; Jan. 12; Gaz. vol. 138; p. 506.  
 Cruver, C. L., Chicago, Ill. Mirror. No. 40,148; July 20; Gaz. vol. 144; p. 800.  
 Curtis, J. E., Tacoma, Wash. Badge. No. 40,171; July 27; Gaz. vol. 144; p. 1069.  
 Darnell, J. J., Inola, Okla. Shaving-stand. No. 40,059; June 15; Gaz. vol. 143; p. 846.  
 Darnell, J. J., Inola, Okla. Furniture ornament. No. 39,997; May 18; Gaz. vol. 142; p. 838.  
 Davis, G., New York, N. Y. Shoe. No. 39,919; Apr. 13; Gaz. vol. 141; p. 548.  
 Davis, G. E., Farmersville, Cal. Watch-fob. No. 39,988; May 18; Gaz. vol. 142; p. 836.  
 De Goeij, W., Providence, R. I. Dish or similar article. No. 40,367; Nov. 23; Gaz. vol. 148; p. 1072.  
 Dean, J. R., New Britain, Conn. Padlock. No. 39,745; Jan. 5; Gaz. vol. 138; p. 234.  
 Dean, J. R., New Britain, assignor to International Silver Co., Meriden, Conn. Back for mirrors, brushes, or similar articles. No. 40,032; June 8; Gaz. vol. 143; p. 541.  
 Develon, T., Jr. (See White, H. C., assignor.)  
 Di Gioia, F., Derby, Conn. Clasp for shoes. No. 40,034; June 8; Gaz. vol. 143; p. 541.  
 Dickinson, A., Seattle, Wash. Badge. No. 39,985; May 18; Gaz. vol. 142; p. 836.  
 Dieges, C. J., New York, N. Y. Badge. Nos. 40,000-1; May 25; Gaz. vol. 142; pp. 1092-3.  
 Dieges, C. J., New York, N. Y. Memorial-tablet. No. 40,097; June 22; Gaz. vol. 143; p. 1089.  
 Discher, M. O., Mobile, Ala. Emblem or fob-jewel. No. 39,873; Mar. 16; Gaz. vol. 140; p. 736.  
 Dittke, R., Chicago, Ill. Illuminated sign. No. 40,262; Sept. 14; Gaz. vol. 146; p. 492.  
 Dixon, A. E., assignor to B. A. Ballou & Company, Incorporated, Providence, R. I. Head of cuff-pins or similar articles. Nos. 40,205-7; Aug. 10; Gaz. vol. 145; p. 494.  
 Doebeli, F., assignor to A. Seigrist Co., New York, N. Y. Braid. No. 39,944; Apr. 27; Gaz. vol. 141; p. 1146.  
 Doebeli, F., assignor to A. Seigrist Co., New York, N. Y. Braid. No. 40,363; Nov. 16; Gaz. vol. 148; p. 818.  
 Dominick & Haff. (See Crowell, G. L., Jr., assignor.)  
 Dowse, W. B. H., Newton, Mass. Spoon or fork. No. 39,738; Jan. 5; Gaz. vol. 138; p. 233.  
 Doyle, W. H., assignor to Philadelphia Lodge No. 2 Benevolent and Protective Order of Elks, Philadelphia, Pa. Badge. No. 39,849; Mar. 2; Gaz. vol. 140; p. 238.  
 Dralle, G., Hamburg, Germany. Casing for perfumery-bottles. No. 39,855; Mar. 2; Gaz. vol. 140; p. 239.  
 Droeg, G. H., New York, N. Y. Stove top plate. No. 40,225; Aug. 10; Gaz. vol. 145; p. 498.  
 Duffner & Kimberly Company. (See Howell, H. T., assignor.)  
 Dunham, G. W., assignor to Olds Motor Works, Lansing, Mich. Hub-cap for automobiles. No. 40,249; Aug. 31; Gaz. vol. 145; p. 1237.  
 Duryea, W. F., Hackensack, N. J. Pen or pencil retainer. No. 39,989; May 18; Gaz. vol. 142; p. 837.  
 Duryea, W. F., Hackensack, N. J. Pen or pencil retainer. No. 40,082; June 22; Gaz. vol. 143; p. 1087.  
 E. H. H. Smith Silver Company. (See Ittig, G. P., assignor.)  
 E. W. Bliss Company. (See Le Gendre, H. E., assignor.)  
 Eagle Pencil Company. (See Boman, C. W., assignor.)  
 Eberhard Faber Pencil Company. (See Schmitz, E. L., assignor.)  
 Economy Electric Company. (See Wohl and Hertzberg, assignors.)  
 Economy Stove Company. (See Cope and Bertram, assignors.)  
 Elliot, W. A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 40,193; July 27; Gaz. vol. 144; p. 1073.  
 Ellis, E. M. (See Fischer, G. M., assignor.)  
 Ellsworth, E. C. R., Toledo, Ohio. Table. No. 40,191; July 27; Gaz. vol. 144; p. 1072.  
 Elms & Company. (See Krischbaum, O., assignor.)  
 Emond, W. H., Newtonville, Mass. Vehicle-body. No. 40,143; July 13; Gaz. vol. 144; p. 547.  
 Emond, W. H., Newtonville, Mass. Vehicle-body. No. 40,420; Dec. 28; Gaz. vol. 149; p. 1103.

*Alphabetical list of patentees of designs—Continued.*

- English, J. C., Camden, N. J., assignor to Victor Talking Machine Company. Cabinet for talking-machines. Nos. 39,842-4; Feb. 23; Gaz. vol. 139; pp. 971-2.
- Erben, F., Cleveland, Ohio. Fob. No. 40,392; Dec. 14; Gaz. vol. 149; p. 581.
- Erschine, J. L., New York, N. Y. Shaving-brush. Nos. 39,898-9; Mar. 30; Gaz. vol. 140; p. 1193.
- Estep, E. R., assignor to Packard Motor Car Company, Detroit, Mich. Type ornament. No. 39,817; Feb. 9; Gaz. vol. 139; p. 445.
- Eustis, J. P., Newton, Mass. Soap-dish. No. 39,774; Jan. 19; Gaz. vol. 138; p. 752.
- Fahys Watch Case Company. (See Habensack, F., assignor.)
- Feder, H., New York, N. Y. Bow. No. 40,405; Dec. 14; Gaz. vol. 149; p. 583.
- Fischer, A. T., Cleveland, Ohio. Badge. No. 39,737; Jan. 5; Gaz. vol. 138; p. 232.
- Fischer, G. M., Austin, Ill., assignor to Jersey-Creme Company, Fort Worth, Tex. Jar. No. 39,959; May 4; Gaz. vol. 142; p. 266.
- Fischer, G. M., Austin, Ill., assignor to E. M. Ellis, Memphis, Tenn. Urn. No. 40,259; Sept. 14; Gaz. vol. 146; p. 492.
- Flint, H. J., Edgewood, R. I. Brooch. No. 40,101; June 29; Gaz. vol. 143; p. 1328.
- Flour City Ornamental Iron Works. (See Colburn, S. M., assignor.)
- Foley, W. C., Chicago, Ill. Spool-holder for sewing-machine stands. No. 39,754; Jan. 12; Gaz. vol. 138; p. 505.
- Franz Wall Paper Company. (See Prinz, K. L., assignor.)
- Frenz, W., assignor to New York Button Works, New York, N. Y. Button. No. 40,102; June 29; Gaz. vol. 143; p. 1328.
- Freund, Z., Newark, N. J. Veil-pin, ribbon-pin, or similar article. No. 39,741; Jan. 5; Gaz. vol. 138; p. 233.
- Freundt, L. J., Chicago, Ill., assignor to American Can Company, New York, N. Y. Sheet-metal caddy-body blank. No. 39,784; Jan. 19; Gaz. vol. 138; p. 754.
- Fuchs, E., assignor to F. L. Stetson, New York, N. Y. Medal. No. 40,250; Sept. 7; Gaz. vol. 146; p. 242.
- G. & C. Merriam Company. (See Cole, L. A., assignor.)
- Gair, R., New York, N. Y. Doily. Nos. 40,274-7; Sept. 28; Gaz. vol. 146; p. 941.
- Gair, R., New York, N. Y. Paper-lace mat. No. 40,322; Oct. 26; Gaz. vol. 147; p. 1020.
- Gair, R., New York, N. Y. Doily. No. 40,348; Nov. 9; Gaz. vol. 148; p. 553.
- Garrison, E. G., Newark, N. J. Dish. No. 39,958; May 4; Gaz. vol. 142; p. 266.
- Gattiker, R., Paris, France, assignor to Cheney Brothers. Textile fabric. Nos. 39,818-21; Feb. 9; Gaz. vol. 139; p. 446.
- Geissler, L. F., Philadelphia, Pa., assignor to Victor Talking Machine Company. Talking-machine-record cabinet. Nos. 40,398-9; Dec. 14; Gaz. vol. 149; p. 582.
- Geo. Borgfeldt & Co. (See Schedler, C. W., assignor.)
- George La Monte & Son. (See Sergeant, W. L., assignor.)
- Gennert, E. F., New York, N. Y. Prismatic glass cone for oil-burners. No. 40,014; May 25; Gaz. vol. 142; p. 1094.
- Gerz, J. W. (See Schwarz and Gerz.)
- Gilbert, D. M., New York, N. Y. Incandescent-lampshade. No. 40,141; July 13; Gaz. vol. 144; p. 546.
- Gilbert, H. J., Saginaw, Mich., assignor to Mississippi Glass Company. Sheet-glass. No. 40,261; Sept. 14; Gaz. vol. 146; p. 492.
- Giles, J. J., McKeesport, Pa. Work-box. No. 40,229; Aug. 17; Gaz. vol. 145; p. 751.
- Gill and Company. (See Kappler, J., assignor.)
- Gillinder, E. A., Tacony, Pa. Lamp-shade. No. 40,389; Dec. 7; Gaz. vol. 149; p. 292.
- Gillinder & Sons. (See Booth, K., assignor.)
- Giroud, P. G., New York, N. Y. Clock-case. No. 39,942; Apr. 27; Gaz. vol. 141; p. 1146.
- Glen Manufacturing Company. (See Bedient, E. A., assignor.)
- Goldberg, A. (See Rosengard and Goldberg.)
- Golden, C. D., Chicago, Ill. Clothes-rack. No. 40,278; Sept. 28; Gaz. vol. 146; p. 942.
- Goldsmith, C. P., assignor to C. P. Goldsmith & Co., New York, N. Y. Clutch for scarf-pins and brooches. No. 40,279; Sept. 28; Gaz. vol. 146; p. 942.
- Goldsmith & Co., C. P. (See Goldsmith, C. P., assignor.)
- Gordon, J., Jr., New Rochelle, assignor to Sireno Company, New York, N. Y. Casing for mechanical whistles or sirens. No. 39,791; Jan. 26; Gaz. vol. 138; p. 949.
- Gorham Manufacturing Company. (See Codman, W. C., assignor.)
- Gould, R. D., Hood River, Ore. Lamp-shade. No. 40,177; July 27; Gaz. vol. 144; p. 1070.
- Graff, C., assignor to Graff, Washbourne & Dunn, New York, N. Y. Dish. No. 39,992; May 18; Gaz. vol. 142; p. 837.
- Graff, C., assignor to Graff, Washbourne & Dunn, New York, N. Y. Border-section. No. 40,009; May 25; Gaz. vol. 142; p. 1093.
- Graff, Washbourne & Dunn. (See Graff, C., assignor.)
- Graham, R. M., and H. T. Hoag, Los Angeles, Cal. Emblem. No. 40,204; Aug. 10; Gaz. vol. 145; p. 494.
- Grand Council of Delta-Delta-Delta Fraternity. (See Lanphear, O. C., assignor.)
- Grant, F. M., assignor to G. C. Comerford, Chicago, Ill. Emblem. No. 40,383; Dec. 7; Gaz. vol. 149; p. 291.
- Cray, W. J., Jeannette, Pa. Lamp-shade. No. 40,379; Nov. 30; Gaz. vol. 148; p. 1327.
- Green, J. E., Minneapolis, Minn., assignor to McClintock-Loomis Company. Chime-clock case. Nos. 40,233-4; Aug. 24; Gaz. vol. 145; p. 1007.
- Green, J. W., Santa Fe, N. Mex. Ter. Badge. No. 40,002; May 25; Gaz. vol. 142; p. 1093.
- Green, J. W., Los Angeles, Cal. Badge. No. 40,237; Aug. 31; Gaz. vol. 145; p. 1235.
- Greenburg, G. G., Chicago, Ill. Badge. No. 40,072; June 22; Gaz. vol. 143; p. 1085.
- Greene, J. J., Philadelphia, Pa. Condiment-holder. No. 39,956; May 4; Gaz. vol. 142; p. 265.
- Greenwald, I., New York, N. Y. Panel for lamp-shades. Nos. 40,241-3; Aug. 31; Gaz. vol. 145; p. 1236.
- Greenwald, I., New York, N. Y. Panel for light-shades. No. 40,317; Oct. 19; Gaz. vol. 147; p. 759.
- Griscom-Spencer Company. (See Bunnell, S. H., assignor.)
- Grollman, I., Chicago, Ill. Post-card. No. 40,083; June 22; Gaz. vol. 143; p. 1087.
- Gruen, F. G., Cincinnati, Ohio. Watch-dial. No. 40,280; Oct. 5; Gaz. vol. 147; p. 217.
- H. Mueller Manufacturing Company. (See Mueller, H., assignor.)
- H. & C. Bottle Manufacturing Co. (See Kelley, A. J., assignor.)
- H. C. Fry Glass Company. (See Haden, H., assignor.)
- H. J. Heinz Company. (See Hellen, C. E., assignor.)
- H. P. Sinclair & Company. (See Sinclair, H. P., assignor.)
- Haas, F. A., New York, N. Y., assignor to M. J. Whittall, Worcester, Mass. Rug. Nos. 40,025-6; June 1; Gaz. vol. 143; p. 243.
- Haas, F. A., New York, N. Y., assignor to M. Whittall, Worcester, Mass. Rug. No. 40,256; Sept. 7; Gaz. vol. 146; p. 243.
- Habensack, F., Sag Harbor, assignor to Fahys Watch Case Company, New York, N. Y. Handle of spoons, forks, or similar articles. No. 40,031; June 8; Gaz. vol. 143; p. 540.
- Haden, H., Pittsburg, assignor to H. C. Fry Glass Company, Rochester, Pa. Glass vessel. No. 39,993; May 18; Gaz. vol. 142; p. 837.
- Hahn, I., Pittsburg, Pa. Card-rack. No. 39,755; Jan. 12; Gaz. vol. 138; p. 505.
- Hamilton, G. W., Altoona, Pa. Clock case and dial. No. 39,922; Apr. 20; Gaz. vol. 141; p. 846.
- Harnstone, J. H., Attleboro, assignor to R. Blackinton & Co., North Attleboro, Mass. Handle for spoons, forks, or similar articles. No. 39,834; Feb. 23; Gaz. vol. 139; p. 970.
- Harrison, C. W., London, England. Gas-lamp. No. 40,056; June 15; Gaz. vol. 143; p. 845.
- Hart, E., assignor to New England Watch Co., Waterbury, Conn. Watch-dial. No. 40,393; Dec. 14; Gaz. vol. 149; p. 581.
- Harter, A. F., Chicago, Ill. Cooking-range. No. 40,272; Sept. 21; Gaz. vol. 146; p. 704.
- Harter, A. F., assignor to Cribben & Sexton Company, Chicago, Ill. Heating-stove. No. 40,264; Sept. 14; Gaz. vol. 146; p. 492.
- Harter, G. A., Chicago, and J. C. Smith, Oak Park, Ill. Lamp-shade. No. 40,266; Sept. 21; Gaz. vol. 146; p. 702.
- Havens, M., Jr., Albany, N. Y. Branch box for insulated electric wires. No. 39,761; Jan. 12; Gaz. vol. 138; p. 506.
- Hawkes, S., Corning, N. Y. Glass pitcher. Nos. 40,324-5; Nov. 12; Gaz. vol. 145; pp. 262-384.
- Hawkes, T. G., Corning, N. Y. Glass vessel. No. 40,195; Aug. 3; Gaz. vol. 143; p. 240.
- Hawthorne & Sheble Manufacturing Company. (See Pitts, W. C., assignor.)
- Haynes, E. L., Chicago, Ill. Badge. No. 40,415; Dec. 28; Gaz. vol. 149; p. 1102.
- Heath, T., assignor to Watson & Newell Company, Attleboro, Mass. Handle of spoons, forks, or similar articles. No. 40,121; July 6; Gaz. vol. 144; p. 259.
- Heath, W. H., Brooklyn, N. Y. Medal. No. 39,799; Feb. 2; Gaz. vol. 139; p. 180.
- Helbig, W., Jersey City, N. J., assignor to Kirscheidt Manufacturing Company, New York, N. Y. Trimming. No. 39,831; Feb. 16; Gaz. vol. 139; p. 716.
- Helbig, W., Jersey City, N. J., assignor to Kirscheidt Manufacturing Company, New York, N. Y. Trimming. Nos. 39,846-7; Feb. 23; Gaz. vol. 139; p. 972.
- Hellen, C. E., Sewickley, assignor to H. J. Heinz Company, Pittsburg, Pa. Bottle. No. 40,104; June 29; Gaz. vol. 143; p. 1328.
- Heller, M. J., Longbeach, Cal. Emblem. No. 39,787; Jan. 26; Gaz. vol. 138; p. 948.
- Henderson, W. C., Baltimore, Md. Sign. No. 40,045; June 8; Gaz. vol. 143; p. 543.
- Hendrickson, C., New York, N. Y. Lamp. No. 39,983; May 11; Gaz. vol. 142; p. 552.



*Alphabetical list of patentees of designs—Continued.*

- Hentschy, S., New Kensington, Pa. Dish. No. 40,375; Nov. 30; Gaz. vol. 148; p. 1326.
- Herrick, C. H., assignor to Peck, Stow and Wilcox Company, Cleveland, Ohio. Door-knob. No. 39,779; Jan. 19; Gaz. vol. 138; p. 753.
- Herrick, C. H., assignor to Peck, Stow and Wilcox Company, Cleveland, Ohio. Lock-trimming. No. 39,780; Jan. 19; Gaz. vol. 138; p. 753.
- Hertzberg, H. (See Wohl and Hertzberg.)
- Herzog, J., Saginaw, Mich., assignor to Regina Company, Rahway, N. J. Cabinet. No. 39,970; May 4; Gaz. vol. 142; p. 268.
- Heusser, W., Salt Lake City, Utah. Balance-beam. No. 39,858; Mar. 2; Gaz. vol. 140; p. 239.
- Hillbom, H., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon, fork, or similar article. No. 39,836; Feb. 23; Gaz. vol. 139; p. 970.
- Hillbom, H., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon, fork, or similar article. No. 39,990; May 18; Gaz. vol. 142; p. 837.
- Hiles, S. E., assignor to Samuel C. Tatum Company, Cincinnati, Ohio. Inkstand. No. 40,125; July 6; Gaz. vol. 144; p. 260.
- Hine, C., assignor to Brunswick-Balke-Collender Company, Chicago, Ill. Game-table. No. 40,092; June 22; Gaz. vol. 143; p. 1089.
- Hirsch, H. H., Philadelphia, Pa. Bedstead. No. 39,943; Apr. 27; Gaz. vol. 141; p. 1146.
- Hoag, H. T. (See Graham and Hoag.)
- Hoffman-Corr Manufacturing Company. (See McBride, W. J., assignor.)
- Hoffman, G. F., Philadelphia, Pa. Hammock-stand. No. 39,975; May 4; Gaz. vol. 142; p. 269.
- Holland, C., Butte, Mont. Electric-light bracket. No. 39,924; Apr. 20; Gaz. vol. 141; p. 846.
- Holt, O. J., Chelsea, Mass. Automobile-lamp. No. 40,142; July 13; Gaz. vol. 144; p. 546.
- Hood, F. C., Boston, Mass., assignor to Hood Rubber Company. Rubber overshoe. No. 39,862; Mar. 2; Gaz. vol. 140; p. 240.
- Hood Rubber Company. (See Hood, F. C., assignor.)
- Horlick, W., Jr., assignor to Horlick's Malted Milk Company, Racine, Wis. Stopper for bottles. No. 40,033; June 8; Gaz. vol. 143; p. 541.
- Horlick's Malted Milk Company. (See Horlick, W., Jr., assignor.)
- Horter, E., New York, N. Y., assignor to J. B. Williams Company, Glastonbury, Conn. Receptacle for toilet compounds. No. 40,076; June 22; Gaz. vol. 143; p. 1086.
- Hoschke, W. H., New York, N. Y. Phonograph-case. No. 40,137; July 13; Gaz. vol. 144; p. 546.
- Hosford, J. C., Malden, assignor to Magee Furnace Co., Boston, Mass. Stove. Nos. 39,828-9; Feb. 16; Gaz. vol. 139; pp. 715-16.
- Howard Stove Co. (See Cope and Bertram, assignors.)
- Howell, H. T., Woodside, assignor to Duffner & Kimberly Company, New York, N. Y. Lighting-fixture. No. 40,054; June 15; Gaz. vol. 143; p. 845.
- Huenefeld, E. H., Cincinnati, Ohio. Oven-door. Nos. 40,062-3; June 15; Gaz. vol. 143; p. 846.
- Hughes, F., Yonkers, N. Y. Badge. No. 39,833; Feb. 23; Gaz. vol. 139; p. 970.
- Humphrey, E. H., Pasadena, Cal. Badge. No. 40,071; June 22; Gaz. vol. 143; p. 1085.
- Hurley, D. J., assignor to New Haven Clock Co., New Haven, Conn. Clock-case. Nos. 40,149-50; July 20; Gaz. vol. 144; p. 800.
- Hutchison, M. R., Summit, N. J. Case for moving parts of mechanically-actuated diaphragm-horns. No. 39,785; Jan. 19; Gaz. vol. 138; p. 754.
- Hutchison, M. R., Summit, N. J. Resonator and case for mechanically-actuated diaphragm-horns. No. 39,786; Jan. 19; Gaz. vol. 138; p. 754.
- Hutchison, M. R., Summit, N. J. Case and resonator for diaphragm-actuated horns. No. 39,801; Feb. 2; Gaz. vol. 139; p. 180.
- Hyatt, F. S., New York, N. Y. Tongue member. No. 39,778; Jan. 19; Gaz. vol. 138; p. 753.
- Hyman, D. N., assignor to E. Warner and M. Hyman, Buffalo, N. Y. Pipe. No. 39,788; Jan. 26; Gaz. vol. 138; p. 948.
- Hyman, M., *et al.* (See Hyman, D. N., assignor.)
- Hynek, M. J., Chicago, Ill. Badge. No. 39,986; May 18; Gaz. vol. 142; p. 836.
- I. E. Palmer Co. (See Palmer, I. E., assignor.)
- Index Sign Company. (See Moray, G. E., assignor.)
- International Silver Co. (See Dean, J. R., assignor.)
- International Silver Co. (See Stohr, S., assignor.)
- International Silver Co. (See Strohhaker, G., assignor.)
- International Silver Company. (See Berry, G. H., assignor.)
- International Silver Company. (See Lashar, T. B., assignor.)
- Ittig, G. P., assignor to E. H. H. Smith Silver Company, Bridgeport, Conn. Handle for spoons, forks, and similar articles. No. 40,257; Sept. 14; Gaz. vol. 146; p. 491.
- Iwan, A. J., Marshfield, Wis. Poison-bottle. No. 39,777; Jan. 19; Gaz. vol. 138; p. 752.
- J. Pouyat Company. (See Ziegler, C., assignor.)
- J. B. Williams Company. (See Horter, E., assignor.)
- J. B. Williams Company. (See Ruzicka, R., assignor.)
- J. & T. Muir. (See Stephenson, J. F., assignor.)
- Jackson, E. R., Oakland, Cal. Vault-light. No. 39,744; Jan. 5; Gaz. vol. 138; p. 234.
- Jacobs, B. W., assignor to Jefferson Glass Company, Follansbee, W. Va. Glass receptacle. No. 40,396; Dec. 14; Gaz. vol. 149; p. 582.
- Jaenicher, L., assignor to Standard Computing Scale Company, Detroit, Mich. Scale-frame. No. 40,157; July 20; Gaz. vol. 144; p. 802.
- Jameson, W. A., Niagara Falls, N. Y. Spoon or similar article. No. 40,103; June 29; Gaz. vol. 143; p. 1328.
- Jameson, W. A., Niagara Falls, N. Y. Spoon, fork, or similar article. No. 40,351; Nov. 16; Gaz. vol. 148; p. 816.
- Jandus Electric Company. (See Stowe, B. A., assignor.)
- Jefferson Glass Company. (See Jacobs, B. W., assignor.)
- Jersey-Creme Company. (See Fischer, G. M., assignor.)
- John J. Lattemann Mfg. Co. (See Merz, L., assignor.)
- Johnson, E. R., Merion, Pa., assignor to Victor Talking Machine Company. Cabinet for talking-machines. Nos. 39,971-4; May 4; Gaz. vol. 142; pp. 268-9.
- Jones Company, I. A. (See Moore and Timberlake, assignors.)
- Jones, J. W., New York, N. Y. Automobile-horn. Nos. 40,184-6; July 27; Gaz. vol. 144; p. 1071.
- Just, A. L., Syracuse, N. Y. Burial-monument. No. 40,313; Oct. 12; Gaz. vol. 147; p. 502.
- Kaiserman, A., Rochelle, Ill. Picture-frame. No. 40,136; July 13; Gaz. vol. 144; p. 545.
- Kappler, J., assignor to Gill and Company, Philadelphia, Pa. Lamp-shade. Nos. 39,963-5; May 4; Gaz. vol. 142; p. 267.
- Kappler, J., assignor to Gill & Company, Philadelphia, Pa. Lamp-shade. No. 40,022; June 1; Gaz. vol. 143; p. 242.
- Kappler, J., assignor to Gill & Company, Philadelphia, Pa. Lamp-shade. No. 40,035; June 8; Gaz. vol. 143; p. 541.
- Kappler, J., assignor to Gill & Company, Philadelphia, Pa. Lamp-shade. No. 40,267; Sept. 21; Gaz. vol. 146; p. 703.
- Kappler, J., assignor to Gill & Company, Philadelphia, Pa. Lamp-shade. No. 40,281; Oct. 5; Gaz. vol. 147; p. 217.
- Kappler, J., assignor to Gill & Company, Philadelphia, Pa. Lamp-shade. No. 40,345; Nov. 9; Gaz. vol. 148; p. 553.
- Kassel, E. J., Ballinger, Tex. Badge. No. 40,003; May 25; Gaz. vol. 142; p. 1093.
- Keach, W. E., Cumberland, R. I. Lace edging. No. 40,018; May 25; Gaz. vol. 142; p. 1095.
- Keiser, W. F., Columbus, Ohio. Gas-burner. No. 39,966; May 4; Gaz. vol. 142; p. 267.
- Keith, D. W., Plankinton, S. D. Reservoir for fountain-syringes. No. 40,377; Nov. 30; Gaz. vol. 148; p. 1326.
- Kelley, A. J., Mount Vernon, assignor to H. & C. Bottle Manufacturing Co., New York, N. Y. Vacuum-insulated bottle. No. 39,857; Mar. 2; Gaz. vol. 140; p. 239.
- Kelly, E. C. (See Locher and Kelly.)
- Kennedy, T. R., and E. J. King, assignors to Cooperative Foundry Company, Rochester, N. Y. Stove. No. 39,748; Jan. 5; Gaz. vol. 138; p. 235.
- Keuhne, A. E. (See Richards and Keuhne.)
- Killian, L., Brooklyn, assignor to Palmer & Embury Mfg. Co., New York, N. Y. Chair. No. 39,845; Feb. 23; Gaz. vol. 139; p. 972.
- Killian, L., Brooklyn, assignor to Palmer & Embury Mfg. Co., New York, N. Y. Chair. Nos. 40,089-90; June 22; Gaz. vol. 143; p. 1088.
- King, A. E. (See Lee and King.)
- King, E. J. (See Kennedy and King.)
- King, I. J. F., Asbury Park, N. J. Cup or similar article. No. 40,417; Dec. 28; Gaz. vol. 149; p. 1107.
- Kirschbaum, O., assignor to Elms & Company, New York, N. Y. Textile fabric. No. 40,273; Sept. 21; Gaz. vol. 146; p. 704.
- Kny, W., Wingswinford, near Dudley, England. Goblet. No. 40,360; Nov. 16; Gaz. vol. 148; p. 818.
- Koenig, J., Jersey City, N. J. Niche or shrine. No. 39,822; Feb. 16; Gaz. vol. 139; p. 714.
- Kökeritz, C. O. von. (See Weigang, W., assignor.)
- Korman, E. J., and M. H. Walker, Chicago, Ill. Washtub-support. No. 39,892; Mar. 23; Gaz. vol. 140; p. 987.
- Korzinek, J., Passaic, N. J. Printed fabric. No. 39,804; Feb. 2; Gaz. vol. 139; p. 181.
- Korzinek, J., Passaic, N. J., assignor to Wayman & Wood Company, Pittsburg, Pa. Textile fabric. Nos. 40,306-12; Oct. 12; Gaz. vol. 147; pp. 501-2.
- Kraus, L., Chicago, Ill. Gem-setting. No. 40,006; May 25; Gaz. vol. 142; p. 1093.
- Kursheedt Manufacturing Company. (See Helbig, W., assignor.)

*Alphabetical list of patentees of designs—Continued.*

- L. Plaut & Co. (See Ullman, G. H., assignor.)  
 Lachman, L. S. (See Lachman, M. and L. S.)  
 Lachman, M. and L. S., New York, N. Y. Fence. No. 39,998; May 18; Gaz. vol. 142; p. 838.  
 Lambert, J., Hoboken, N. J. Purse and belt therefor. No. 40,341; Nov. 9; Gaz. vol. 143; p. 552.  
 Lambert, J., Hoboken, N. J. Chatelaine-bag. No. 40,376; Nov. 30; Gaz. vol. 148; p. 1326.  
 Landers, Frary and Clark. (See Walker, G., assignor.)  
 Lanphear, O. C., Galesburg, Ill., assignor to Grand Council of Delta-Delta-Delta Fraternity. Brooch or similar article. No. 40,134; July 13; Gaz. vol. 144; p. 545.  
 Large, S. J., assignor to Bristol Brass Company, Bristol, Conn. Handle for spoons, forks, or similar articles. No. 39,920; Apr. 20; Gaz. vol. 141; p. 845.  
 Lashar, T. B., assignor to International Silver Company, Bridgeport, Conn. Handle for forks, spoons, and similar articles. No. 39,835; Feb. 23; Gaz. vol. 139; p. 970.  
 Lattin, A. N., Hartford, Conn., assignor to S. Sternau & Co., New York, N. Y. Crumb-scraper. No. 39,839; Feb. 23; Gaz. vol. 139; p. 971.  
 Le Gendre, H. E., Cresskill, N. J., assignor to E. W. Bliss Company, Brooklyn, N. Y. Pneumatic-tool casing. No. 40,235; Aug. 24; Gaz. vol. 145; p. 1007.  
 Lederer, I. R., Providence, R. I. Fob. No. 40,406; Dec. 21; Gaz. vol. 149; p. 814.  
 Ledin, C. L., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Key. No. 39,876; Mar. 16; Gaz. vol. 140; p. 737.  
 Ledin, C. L., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Padlock. Nos. 39,877-80; Mar. 16; Gaz. vol. 140; pp. 737-8.  
 Ledin, C. L., assignor to Yale & Towne Manufacturing Company, Stamford, Conn. Padlock. Nos. 39,900-1; Mar. 30; Gaz. vol. 140; p. 1193.  
 Leding, R., Washington, D. C. Charm, pin, or similar article. No. 40,385; Dec. 7; Gaz. vol. 149; p. 291.  
 Lee, L. S., Los Angeles, Cal. Badge. No. 40,116; July 6; Gaz. vol. 144; p. 258.  
 Lee, W. G., and A. E. King, Cleveland, Ohio, assignors to Brotherhood of Railroad Trainmen. Emblem. No. 40,384; Dec. 7; Gaz. vol. 149; p. 291.  
 Levy, I. J., New York, N. Y. Hand-bag. Nos. 39,937-8; Apr. 20; Gaz. vol. 141; p. 848.  
 Levy, I. J., New York, N. Y. Hand-bag. No. 40,084; June 22; Gaz. vol. 143; p. 1087.  
 Leyser, F. L., Des Moines, Iowa. Neck-collar supporter. No. 39,832; Feb. 16; Gaz. vol. 139; p. 716.  
 Libson, I., Brooklyn, N. Y. Incandescent-electric-lamp cluster. No. 40,163; July 20; Gaz. vol. 144; p. 803.  
 Liebenthal, M. and S., Cleveland, Ohio. Bottle. No. 40,080; June 22; Gaz. vol. 143; p. 1087.  
 Liebenthal, S. (See Liebenthal, M. and S.)  
 Liebmann, R., New York, N. Y. Button. No. 40,117; July 6; Gaz. vol. 144; p. 258.  
 Lightbody, F. J., assignor to Cambridge Novelty Company, Cambridge, Mass. Metal mesh fabric. No. 40,388; Dec. 7; Gaz. vol. 149; p. 292.  
 Lindemann, O., New York, N. Y. Wing member for clamping the bases of bird-cages. No. 39,995; May 18; Gaz. vol. 142; p. 838.  
 Lingohr, O., Solingen, Germany. Toy figure. No. 40,342; Nov. 9; Gaz. vol. 148; p. 552.  
 Locher, A., and E. C. Kelly, New York, N. Y. Finger-ring. No. 39,750; Jan. 12; Gaz. vol. 138; p. 505.  
 Long, F. U., and M. L. Packer, assignors to Ohio State Stove Company, Columbus, Ohio. Gas-stove. No. 40,368; Nov. 23; Gaz. vol. 148; p. 1072.  
 Long, F. U., and M. L. Packer, assignors to Ohio State Stove Company, Columbus, Ohio. Stove. No. 40,382; Nov. 30; Gaz. vol. 148; p. 1327.  
 Longe, L. N., Springfield, Vt. Watch or clock dial. No. 40,246; Aug. 31; Gaz. vol. 145; p. 1237.  
 Loomis, C. B., Leonia, N. J. Paper-weight. No. 39,934; Apr. 20; Gaz. vol. 141; p. 847.  
 Loughlin, J. M., assignor to Thomas Cusack Company, Chicago, Ill. Advertising-sign. No. 40,409; Dec. 21; Gaz. vol. 149; p. 815.  
 Lyman, J. G., Philadelphia, Pa. Bottle. Nos. 40,020-1; June 1; Gaz. vol. 143; p. 242.  
 Maag, M. V., Chicago, Ill. Bead collar. Nos. 40,319-20; Oct. 19; Gaz. vol. 147; p. 760.  
 Maddock Battery Co. (See May, C. A., assignor.)  
 Magee Furnace Co. (See Hosford, J. C., assignor.)  
 Manahan, A. L., Seattle, Wash. Emblem. No. 40,030; June 8; Gaz. vol. 143; p. 540.  
 Marlow, H., New Rochelle, N. Y. Toy savings-bank. No. 39,902; Mar. 30; Gaz. vol. 140; p. 1193.  
 Marshall, R., Vienna, Austria-Hungary. Medal. No. 40,004; May 25; Gaz. vol. 142; p. 1093.  
 Martin, A. J. (See Sager and Martin.)  
 Martin, B., Degraff, Ohio. Emblem. No. 39,823; Feb. 16; Gaz. vol. 139; p. 714.  
 Martin, E. A., Newark, N. J. Emblem. No. 39,865; Mar. 9; Gaz. vol. 140; p. 489.  
 Marvin, S. S., Pittsburg, Pa. Jar. No. 39,773; Jan. 19; Gaz. vol. 138; p. 752.  
 Marvin, S. S., Pittsburg, Pa. Chocolate comfit. Nos. 40,268-9; Sept. 21; Gaz. vol. 146; p. 703.  
 Mawer, C. D., New York, N. Y. Bottle. No. 40,081; June 22; Gaz. vol. 143; p. 1087.  
 May, C. A., assignor to Maddock Battery Co., Trenton, N. J. Plate or similar article. No. 40,290; Oct. 12; Gaz. vol. 147; p. 497.  
 McBride, W. J., assignor to Hoffman-Corr Manufacturing Company, Philadelphia, Pa. Cap for hammock-spreader ends. No. 40,369; Nov. 23; Gaz. vol. 148; p. 1072.  
 McClintock-Loomis Company. (See Green, J. E., assignor.)  
 McComb, W. N., New York, N. Y. Character-plate for illuminated advertising-signs. No. 39,976; May 4; Gaz. vol. 142; p. 269.  
 McFaddin, H. D., New York, N. Y. Lamp-shade. No. 39,984; May 11; Gaz. vol. 142; p. 552.  
 McKenna, F. R., assignor to Bourn Rubber Co., Providence, R. I. Sole of shoes. No. 39,747; Jan. 5; Gaz. vol. 138; p. 235.  
 McLean, D., North Shields, England. Cowl for chimneys or ventilating-shafts. No. 39,871; Mar. 9; Gaz. vol. 140; p. 490.  
 McLean, W. M., assignor to W. B. McLean Manufacturing Company, Pittsburg, Pa. Show-case. No. 40,166; July 20; Gaz. vol. 144; p. 803.  
 McNamara, M. J., and F. E. Cantner, Philadelphia, Pa. Basin-supporting bracket. No. 40,400; Dec. 14; Gaz. vol. 149; p. 582.  
 McNicholas, J. T. (See Sullivan, J., assignor.)  
 McRae, A. A., Attleboro, Mass. Medallion. Nos. 39,946-53; May 4; Gaz. vol. 142; pp. 264-5.  
 McRae and Keeler. (See Sworbel, J. A., assignor.)  
 Mead, J. H., New York, N. Y. Gas steam-radiator. No. 39,827; Feb. 16; Gaz. vol. 139; p. 715.  
 Melillo, J., and J. Cariddi, Brooklyn, N. Y. Button. No. 40,075; June 22; Gaz. vol. 143; p. 1085.  
 Merrill, G. S., assignor to J. M. Woodward, Cleveland, Ohio. Emblem. No. 39,798; Feb. 2; Gaz. vol. 139; p. 180.  
 Merz, L., New York, assignor to John J. Lattermann Mfg. Co., Brooklyn, N. Y. Slipper. No. 40,391; Dec. 7; Gaz. vol. 149; p. 292.  
 Metzger, M. U., Monclova, Ohio. Woman's hat. No. 39,793; Jan. 26; Gaz. vol. 138; p. 949.  
 Meyer, J. J., Chicago, Ill. Inverted hydrocarbon-vapor lamp. No. 40,015; May 25; Gaz. vol. 142; p. 1095.  
 Meyers, E., Taunton, Mass., assignor to Gorham Manufacturing Company, Providence, R. I. Spoon or similar article. No. 40,352; Nov. 16; Gaz. vol. 148; p. 816.  
 Michaelis, H. M., New York, N. Y. Display-stand for boxes. No. 39,996; May 18; Gaz. vol. 142; p. 838.  
 Miller, H. R., Lebanon, Pa. Sewing-cabinet. No. 39,918; Apr. 13; Gaz. vol. 141; p. 548.  
 Miner, H. A., Malden, Mass. Bottle-cap. No. 40,386; Dec. 7; Gaz. vol. 149; p. 291.  
 Miners, W. S., Fort William, Ontario, Canada. Toy. No. 40,170; July 20; Gaz. vol. 144; p. 804.  
 Mississippi Glass Company. (See Gilbert, H. J., assignor.)  
 Mitchell, J. J., Newburgh, N. Y. Medal. No. 40,098; June 29; Gaz. vol. 143; p. 1327.  
 Mittenhall, A., assignor to Copland & Mittenhall, New York, N. Y. Embossed leather. No. 40,146; July 13; Gaz. vol. 144; p. 547.  
 Monash, C. P., Chicago, Ill. Support for a statue. No. 37,765; Jan. 12; Gaz. vol. 138; p. 506.  
 Monier, F. C., assignor to North and Judd Manufacturing Company, New Britain, Conn. Spur-body. No. 40,086; June 22; Gaz. vol. 143; p. 1088.  
 Moore, E. M., and P. J. Timberlake, Jackson, Mich., assignors to I. A. Jones Company, Chicago, Ill. Stand or holder for cut flowers and plants. No. 40,361; Nov. 16; Gaz. vol. 148; p. 818.  
 Moore, R. A., Berlin, Conn., assignor to Waterbury Buckle Company. Garment-supporter. No. 40,199; Aug. 3; Gaz. vol. 145; p. 240.  
 Moore, S., Philadelphia, Pa. Bracket. No. 39,962; May 4; Gaz. vol. 142; p. 266.  
 Moray, G. E., assignor to Index Sign Company, New York, N. Y. Sign. No. 40,239; Aug. 31; Gaz. vol. 145; p. 1236.  
 Morde, C. E., assignor to Fairpoint Corporation, New Bedford, Mass. Glass vessel. No. 40,079; June 22; Gaz. vol. 143; p. 1086.  
 Morgan, L. H., Dallas, Tex. Emblem. No. 39,770; Jan. 19; Gaz. vol. 138; p. 751.  
 Morris, F. A., Alliance, Ohio. Grave-marker. No. 40,110; June 29; Gaz. vol. 143; p. 1329.  
 Moses, A. R., New York, N. Y. Corset-protecting shield. No. 39,760; Jan. 12; Gaz. vol. 138; p. 506.  
 Mouton, P., Paris, France, assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. Nos. 39,805-8; Feb. 2; Gaz. vol. 139; pp. 181-2.  
 Mueller, G., Cleveland, Ohio. Match-holder. No. 40,052; June 15; Gaz. vol. 143; p. 844.  
 Mueller, H., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Basin-cock. No. 39,756; Jan. 12; Gaz. vol. 138; p. 506.  
 Mueller, H., assignor to H. Mueller Manufacturing Company, Decatur, Ill. Pantry-cock. No. 39,792; Jan. 26; Gaz. vol. 138; p. 949.  
 Musselman, C. A., Philadelphia, Pa. Book-cover. No. 39,814; Feb. 9; Gaz. vol. 139; p. 445.  
 Mussillon, J. A., Springfield, Ill. Knob-turner. No. 39,960; May 4; Gaz. vol. 142; p. 266.



*Alphabetical list of patentees of designs—Continued.*

- Mygatt, O. A., New York, N. Y. Reflector or similar article. No. 40,055; June 15; Gaz. vol. 143; p. 845.  
 Mygatt, O. A., New York, N. Y. Shade, reflector, or similar article. Nos. 40,139-40; July 13; Gaz. vol. 144; p. 546.  
 Mygatt, O. A., New York, N. Y. Reflector or similar article. No. 40,162; July 20; Gaz. vol. 144; p. 802.  
 Mygatt, O. A., New York, N. Y. Shade, reflector, or similar article. Nos. 40,178-83; July 27; Gaz. vol. 144; pp. 1070-1.  
 National Board of Young Women's Christian Associations of the United States of America. (See Sutterlin, F., assignor.)  
 Naysmith, R., Pittsburg, Pa. Bedstead. No. 39,887; Mar. 16; Gaz. vol. 140; p. 739.  
 Nelson, C. (See Sternau and Nelson.)  
 Nelson, C. (See Strassburger and Nelson.)  
 Nelson, C., New York, assignor to S. Sternau & Co., Brooklyn, N. Y. Grate for vapor-stoves. No. 39,925; Apr. 20; Gaz. vol. 141; p. 846.  
 Nelson, C. W., Kansas City, Mo., assignor to Sovereign Grand Lodge of the Independent Order of Odd Fellows. Badge. No. 40,265; Sept. 21; Gaz. vol. 146; p. 702.  
 Nernst Lamp Company. (See Schneider, M., assignor.)  
 Neusehotz, A., New York, N. Y. Memorial monument. No. 39,864; Mar. 9; Gaz. vol. 140; p. 489.  
 New England Watch Co. (See Hart, E., assignor.)  
 New Haven Clock Co. (See Hurley, D. J., assignor.)  
 New Jersey Patent Company. (See Weber, P., assignor.)  
 New York and Brooklyn Casket Co. (See Peoples, E. O., assignor.)  
 New York Button Works. (See Frenz, W., assignor.)  
 New York Button Works. (See Stoeter, C., assignor.)  
 Nilsson, A. W., Port Washington, N. Y. Tiling. Nos. 40,201-2; Aug. 3; Gaz. vol. 145; p. 241.  
 Noe, W. R., East Orange, N. J. Hanging receptacle. No. 40,387; Dec. 7; Gaz. vol. 149; p. 292.  
 North and Judd Manufacturing Company. (See Monier, F. C., assignor.)  
 Northrup, T. H., assignor to one-half to F. E. Prewett, Denver, Colo. Muff. No. 40,169; July 20; Gaz. vol. 144; p. 804.  
 Numan, C. H., New York, N. Y. Inkstand. Nos. 39,825-6; Feb. 16; Gaz. vol. 139; p. 715.  
 Numan, C. H., New York, N. Y. Inkstand. No. 40,012; May 25; Gaz. vol. 142; p. 1094.  
 Nutter, C. P., Malden, assignor to N. G. Wood & Sons, Boston, Mass. Stein. No. 40,395; Dec. 14; Gaz. vol. 149; p. 581.  
 Oehrlie, F. W., Philadelphia, Pa. Woven edging. No. 40,364; Nov. 16; Gaz. vol. 148; p. 818.  
 Ohio State Stove Company. (See Long and Packer, assignors.)  
 Olds Motor Works. (See Dunham, G. W., assignor.)  
 Osborne, C., assignor to Whiting Manufacturing Company, New York, N. Y. Handle for spoons, forks, or similar articles. No. 40,353; Nov. 16; Gaz. vol. 148; p. 816.  
 Osborne, C., assignor to Whiting Manufacturing Company, New York, N. Y. Handle for spoons, forks, or similar articles. No. 40,394; Dec. 14; Gaz. vol. 149; p. 581.  
 Oxford Linen Mills. (See Stone, W. M., assignor.)  
 Packard Motor Car Company. (See Estep, E. R., assignor.)  
 Packer, M. L. (See Long and Packer.)  
 Fairpoint Corporation. (See Morde, C. E., assignor.)  
 Fairpoint Corporation. (See Steffin, A., assignor.)  
 Palmer & Embury Mfg. Co. (See Killian, L., assignor.)  
 Palmer, I. E., assignor to I. E. Palmer Co., Middletown, Conn. Couch-hammock. No. 40,132; July 6; Gaz. vol. 144; p. 261.  
 Pape, H. G., Buffalo, N. Y. Electrical connector. No. 39,870; Mar. 9; Gaz. vol. 140; p. 490.  
 Parker, A. E., Brooklyn, N. Y. Badge. No. 40,100; June 29; Gaz. vol. 143; p. 1327.  
 Parker, W. A., Plainfield, assignor to American Type Founders Company, Jersey City, N. J. Font of printing-type. No. 39,935; Apr. 20; Gaz. vol. 141; p. 847.  
 Passano, W. R., Baltimore, Md. Preserving-jar. No. 39,897; Mar. 30; Gaz. vol. 140; p. 1193.  
 Pearl, E., Passaic, N. J. Pencil-case. No. 39,883; Mar. 16; Gaz. vol. 140; p. 738.  
 Pease, C. M., Brooklyn, N. Y. Box. No. 39,802; Feb. 2; Gaz. vol. 139; p. 180.  
 Peck, Stow and Wilcox Company. (See Herrick, C. H., assignor.)  
 Pedlar, G. H., Oshawa, Ontario, Canada. Metallic shingle. No. 39,890; Mar. 23; Gaz. vol. 140; p. 987.  
 Pelchar, J., Cincinnati, Ohio. Cuff-button. No. 40,337; Nov. 9; Gaz. vol. 148; p. 551.  
 Peoples, E. O., New York, assignor to New York and Brooklyn Casket Co., Brooklyn, N. Y. Panel for casket-covers. No. 40,287; Oct. 5; Gaz. vol. 147; p. 218.  
 Perrault, A. M., Poughkeepsie, N. Y. Bottle. No. 39,856; Mar. 2; Gaz. vol. 140; p. 239.  
 Perry, W. A., assignor to M. J. Whittall, Worcester, Mass. Rug. No. 40,027; June 1; Gaz. vol. 143; p. 243.  
 Pessinger, B. M., Chicago, Ill. Toy figure. No. 40,129; July 6; Gaz. vol. 144; p. 261.  
 Peter, F. A., Newside, Pa. Fence. No. 39,977; May 4; Gaz. vol. 142; p. 269.  
 Petzold, A., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 40,093-5; June 22; Gaz. vol. 143; p. 1089.  
 Petzold, A., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 40,112-13; June 29; Gaz. vol. 143; p. 1330.  
 Petzold, A., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. No. 40,200; Aug. 3; Gaz. vol. 145; p. 241.  
 Petzold, A., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. No. 40,255; Sept. 7; Gaz. vol. 146; p. 243.  
 Petzold, A., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. No. 40,289; Oct. 5; Gaz. vol. 147; p. 219.  
 Planschmidt, C., assignor to Theo. A. Kochs Company, Chicago, Ill. Barber-shop mirror. No. 39,853; Mar. 2; Gaz. vol. 140; p. 239.  
 Planschmidt, C., assignor to Theo. A. Kochs Co., Chicago, Ill. Barber's chair. No. 40,231; Aug. 17; Gaz. vol. 145; p. 751.  
 Philadelphia Globe Gas Light Company. (See Slinnack, V. H., assignor.)  
 Philadelphia Lodge No. 2 Benevolent and Protective Order of Elks. (See Doyle, W. H., assignor.)  
 Pitner, M. W., Chicago, Ill. Lighting-fixture. Nos. 40,214-22; Aug. 10; Gaz. vol. 145; pp. 495-7.  
 Pittman, R. H., assignor to T. B. Clark & Co., Honesdale, Pa. Cut-glass dish. No. 40,051; June 15; Gaz. vol. 143; p. 844.  
 Pitts, W. C., assignor to Hawthorne & Sheble Manufacturing Company, Philadelphia, Pa. Cabinet. Nos. 39,908-9; Apr. 6; Gaz. vol. 141; p. 271.  
 Pratt, H. P., Chicago, Ill. Emblem. No. 39,813; Feb. 9; Gaz. vol. 139; p. 445.  
 Prewett, F. E. (See Northrup, T. H., assignor.)  
 Prinz, K. L., Vienna, Austria-Hungary, assignor to Franz Wall Paper Company, New York, N. Y. Wall-covering. No. 40,192; July 27; Gaz. vol. 144; p. 1072.  
 Pyle, A., assignor to Superior Manufacturing Company, Muskegon, Mich. Side standard of opera-chairs. No. 39,891; Mar. 23; Gaz. vol. 140; p. 987.  
 Quennard, G. H., Allendale, N. J. Interlocking tile. No. 40,358; Nov. 16; Gaz. vol. 148; p. 817.  
 R. Blackinton & Co. (See Harmstone, J. H., assignor.)  
 R. Wallace & Sons Mfg. Co. (See Hillborn, H., assignor.)  
 R. Wallace & Sons Mfg. Co. (See Wallace, H. L., assignor.)  
 Radcliffe, J. A., New York, N. Y. Back of playing-cards. No. 39,905; Apr. 6; Gaz. vol. 141; p. 270.  
 Randall, H. W., St. Johnsbury, Vt. Masonic emblem. No. 39,874; Mar. 16; Gaz. vol. 140; p. 737.  
 Reach, G. A. (See Clungeon, E. A., assignor.)  
 Reed & Barton Corporation. (See Turner, G. L., assignor.)  
 Regina Company. (See Herzog, J., assignor.)  
 Remde, E. H., assignor to Baker Motor Vehicle Company, Cleveland, Ohio. Vehicle-body. No. 40,187; July 27; Gaz. vol. 144; p. 1072.  
 Rice, J. I., New York, N. Y. Hair-dressing comb. No. 40,077; June 22; Gaz. vol. 143; p. 1086.  
 Rice, L. W., New York, N. Y. Ash-cup, match-box, and glass-holder. No. 39,753; Jan. 12; Gaz. vol. 138; p. 505.  
 Richards, I. P., Providence, R. I. Centerpiece for tables. No. 40,108; June 29; Gaz. vol. 143; p. 1329.  
 Richards, W. H., and A. E. Keuhne, Philadelphia, Pa. Clock-case. No. 39,884; Mar. 16; Gaz. vol. 140; p. 738.  
 Richardson, R. E., Kansas City, Mo. Electric lamp and support therefor. No. 39,886; Mar. 16; Gaz. vol. 140; p. 739.  
 Ricketts, J., Kansas City, Mo. Layer-loop. No. 39,961; May 4; Gaz. vol. 142; p. 266.  
 Ripley, D. C., assignor to United States Glass Company, Pittsburg, Pa. Lamp-shade. No. 39,743; Jan. 5; Gaz. vol. 138; p. 234.  
 Risbeck, J. H., Pittsburg, Pa. Emblem. Nos. 40,069-70; June 22; Gaz. vol. 143; p. 1085.  
 Rochester Stamping Company. (See Swan, A. H. S., assignor.)  
 Rogers, H. P., Albion, Ind. Spoon, fork, or similar article. No. 40,122; July 6; Gaz. vol. 144; p. 259.  
 Rose M., New York, N. Y., assignor to Belding-Hall Company, Belding, Mich. Refrigerator provision-chamber door. No. 40,040; June 8; Gaz. vol. 143; p. 542.  
 Rose M., New York, N. Y., assignor to Belding-Hall Company, Belding, Mich. Refrigerator ice-chamber door. No. 40,041; June 8; Gaz. vol. 143; p. 542.  
 Rose, M., New York, N. Y., assignor to Belding-Hall Company, Belding, Mich. Refrigerator. No. 40,042; June 8; Gaz. vol. 143; p. 542.  
 Rosenberg, F. J., Los Angeles, Cal. Toy. No. 40,173; July 27; Gaz. vol. 144; p. 1069.  
 Rosenberg, L. M., New York, N. Y. Belt-buckle. No. 40,208; Aug. 10; Gaz. vol. 145; p. 494.

*Alphabetical list of patentees of designs—Continued.*

- Rosengard, H., and A. Goldberg, Chicago, Ill. Cabinet. No. 39,860; Mar. 2; Gaz. vol. 140; p. 240.  
 Rosenthal Paper and Stationery Company. (See Seligstein, A., assignor.)  
 Rouquart, L., New York, N. Y. Plate or platter. No. 39,868; Mar. 9; Gaz. vol. 140; p. 490.  
 Rowe, J. S., Buffalo, N. Y., assignor to Rowe Sanitary Lavatory Company, Detroit, Mich. Lavatory. No. 39,910; Apr. 6; Gaz. vol. 141; p. 271.  
 Rowe Sanitary Lavatory Company. (See Rowe, J. S., assignor.)  
 Rubes, E., Brooklyn, N. Y. Automobile-horn. No. 39,781; Jan. 19; Gaz. vol. 138; p. 753.  
 Rubes, E., Brooklyn, N. Y. Automobile-horn. No. 40,151; July 20; Gaz. vol. 144; p. 800.  
 Rubes, L., Brooklyn, N. Y. Automobile-horn. No. 39,746; Jan. 5; Gaz. vol. 138; p. 234.  
 Rumpp, E., assignor to William H. Horstmann Company, Philadelphia, Pa. Woven edging. No. 40,133; July 6; Gaz. vol. 144; p. 261.  
 Rumpp, E., assignor to William H. Horstmann Company, Philadelphia, Pa. Woven fringe. No. 40,247; Aug. 31; Gaz. vol. 145; p. 1237.  
 Rumpp, E., assignor to William H. Horstmann Company, Philadelphia, Pa. Woven trimming. No. 40,248; Aug. 31; Gaz. vol. 145; p. 1237.  
 Ruzicka, R., New York, N. Y., assignor to J. B. Williams Company, Glastonbury, Conn. Receptacle for toilet compounds. No. 40,053; June 15; Gaz. vol. 143; p. 844.  
 Sager, A. H., and A. J. Martin, Seattle, Wash. Cane. No. 39,981; May 11; Gaz. vol. 142; p. 552.  
 Samuel C. Tatum Company. (See Hilles, S. E., assignor.)  
 Sanford, A. J., Newark, Ohio. Light-shade. No. 40,260; Sept. 14; Gaz. vol. 146; p. 492.  
 Sanford, A. J., Newark, Ohio. Light-shade. Nos. 40,282-4; Oct. 5; Gaz. vol. 147; p. 218.  
 Sanford, A. J., Newark, Ohio. Light-shade. Nos. 40,326-9; Nov. 2; Gaz. vol. 148; p. 263.  
 Sanford, A. J., Newark, Ohio. Light-shade. Nos. 40,332-5; Nov. 2; Gaz. vol. 148; pp. 264-5.  
 Sanford, A. J., Newark, Ohio. Light-shade. Nos. 40,343-4; Nov. 9; Gaz. vol. 148; pp. 552-3.  
 Sargent & Company. (See Stevens, W. E., assignor.)  
 Saunders, A. F., assignor to Benedict Mfg. Co., East Syracuse, N. Y. Spoon. No. 40,078; June 22; Gaz. vol. 143; p. 1086.  
 Schaffner, C. E., Cincinnati, Ohio. Display-case. No. 39,917; Apr. 13; Gaz. vol. 141; p. 548.  
 Schedler, C. W., Mount Vernon, assignor to Geo. Borgfeldt & Co., New York, N. Y. Shears. No. 40,316; Oct. 19; Gaz. vol. 147; p. 759.  
 Scheidecker, P., Paris, France, assignor to Cheney Brothers. Textile fabric. No. 39,794; Jan. 26; Gaz. vol. 138; p. 950.  
 Schicklering, A., New York, N. Y. Card-case. No. 40,197; Aug. 3; Gaz. vol. 145; p. 240.  
 Schmidt, H. O., New York, N. Y. Grille. No. 40,039; June 8; Gaz. vol. 143; p. 542.  
 Schmitz, E. L., New York, assignor to Eberhard Faber Pencil Company, Brooklyn, N. Y. Lead-pencil. No. 39,758; Jan. 12; Gaz. vol. 138; p. 506.  
 Schneider, M., Chicago, Ill., assignor to Nernst Lamp Company. Light-fixture. Nos. 40,293-302; Oct. 12; Gaz. vol. 147; pp. 497-500.  
 Schoenhut, A., Philadelphia, Pa. Toy figure. No. 39,775; Jan. 19; Gaz. vol. 138; p. 752.  
 Schramm, J. H., Pittsburg, Pa. Jar. No. 40,138; July 13; Gaz. vol. 144; p. 546.  
 Schraubstadter, W. A., St. Louis, Mo. Font of type. No. 39,936; Apr. 20; Gaz. vol. 141; p. 847.  
 Schwaib, H. W., New York, N. Y. Quill-holder for ladies' hats. No. 40,404; Dec. 14; Gaz. vol. 149; p. 583.  
 Schwarz, E., and J. W. Gerz, Lancaster, Pa. Statuette. No. 39,904; Apr. 6; Gaz. vol. 141; p. 270.  
 Seigrist Co., A. (See Doebeli, F., assignor.)  
 Seipp, H. C., Coraopolis, Pa. Mat. No. 39,803; Feb. 2; Gaz. vol. 139; p. 180.  
 Seligstein, A., assignor to Rosenthal Paper and Stationery Company, St. Louis, Mo. Wrapping-paper. No. 40,288; Oct. 5; Gaz. vol. 147; p. 219.  
 Sergeant, W. L., Nutley, N. J., assignor to George La Monte & Son, New York, N. Y. Safety-paper. No. 40,362; Nov. 16; Gaz. vol. 148; p. 818.  
 Shapiro, M., New York, N. Y. Sheet-music cabinet. No. 39,923; Apr. 20; Gaz. vol. 141; p. 846.  
 Shown, S., and W. B. Smith, Seattle, Wash. Finger-ring. No. 40,050; June 15; Gaz. vol. 143; p. 844.  
 Shoyer, D. W., New York, N. Y. Hammock. No. 40,370; Nov. 23; Gaz. vol. 148; p. 1073.  
 Shreve & Company. (See Birmingham, J. E., assignor.)  
 Siegrist Co., A. (See Doebeli, F., assignor.)  
 Sierns, H. J., Seneca, Kans. School desk and chair frame. No. 40,091; June 22; Gaz. vol. 143; p. 1089.  
 Silbermann, J., Levallois-Perret, France. Fireplace. No. 40,318; Oct. 19; Gaz. vol. 147; p. 759.  
 Sill Stove Works. (See Beattie, H. W., assignor.)  
 Sill Stove Works. (See Will, B., assignor.)  
 Silver, H., Brooklyn, N. Y. Refrigerator. No. 40,410; Dec. 21; Gaz. vol. 149; p. 815.  
 Silver, H., Brooklyn, N. Y. Door for refrigerators. Nos. 40,411-12; Dec. 21; Gaz. vol. 149; p. 815.  
 Simmons, W. D., St. Louis, Mo. Medal or emblem. No. 40,068; June 22; Gaz. vol. 143; p. 1084.  
 Simon, Bro. & Company. (See Weihman, H. A., assignor.)  
 Simpson, M., Newton, Mass., assignor to Breuker & Kessler Company, Philadelphia, Pa. Box-paper. No. 39,914; Apr. 13; Gaz. vol. 141; p. 547.  
 Sinclair, H. P., assignor to H. P. Sinclair & Company, Corning, N. Y. Glass vessel or similar article. No. 39,980; May 4; Gaz. vol. 142; p. 270.  
 Sinclair, H. P., assignor to H. P. Sinclair Company, Corning, N. Y. Glass vessel or similar article. No. 40,196; Aug. 3; Gaz. vol. 145; p. 240.  
 Sins, E., Paris, France, assignor to Cheney Brothers. Textile fabric. Nos. 39,809-12; Feb. 2; Gaz. vol. 139; p. 182.  
 Sireno Company. (See Gordon, J., Jr., assignor.)  
 Siverson, A., College Point, N. Y. Tiling. No. 40,065; June 15; Gaz. vol. 143; p. 847.  
 Skall, M. A., New York, N. Y. Attachment for display-cases. No. 40,419; Dec. 28; Gaz. vol. 149; p. 1103.  
 Slinack, V. H., assignor to Philadelphia Globe Gas Light Company, Philadelphia, Pa. Inverted gas-burner for street-lights. No. 40,057; June 15; Gaz. vol. 143; p. 845.  
 Smith, H. G., Dundas, Ontario, Canada. Pool-table pocket. No. 40,286; Oct. 5; Gaz. vol. 147; p. 218.  
 Smith, J. C. (See Harter and Smith.)  
 Smith, J. C., Little Neck, N. Y. Vacuum-carafe. No. 40,019; June 1; Gaz. vol. 143; p. 241.  
 Smith, J. H., Dubuque, Iowa. Desk for hotel-registers. No. 39,872; Mar. 9; Gaz. vol. 140; p. 490.  
 Smith, S. V., Philadelphia, Pa. Font of type. No. 39,889; Mar. 23; Gaz. vol. 140; p. 987.  
 Smith, W. B. (See Shown and Smith.)  
 Sneiderger, T., McKees Rocks, Pa. Plant-trellis. No. 40,087; June 22; Gaz. vol. 143; p. 1088.  
 Snow, F. M., Colorado Springs, Colo. Toy. No. 40,011; May 25; Gaz. vol. 142; p. 1094.  
 Soltmann, E. G., and I. Billig, New York, N. Y.; said Billig assignor to said Soltmann. Show-card blank. No. 40,013; May 25; Gaz. vol. 142; p. 1094.  
 Southwick, A. A., assignor to Tiffany & Company, New York, N. Y. Handle for spoons, forks, or similar articles. Nos. 40,339-40; Nov. 9; Gaz. vol. 148; p. 552.  
 Sovereign Grand Lodge of the Independent Order of Odd Fellows. (See Nelson, C. W., assignor.)  
 Sowers, E. B., Columbus, Ohio. Drinking-cup. No. 40,374; Nov. 30; Gaz. vol. 148; p. 1326.  
 Staby, H. C., Brooklyn, N. Y. Map-casing. No. 40,232; Aug. 17; Gaz. vol. 145; p. 751.  
 Standard Computing Scale Company. (See Jaenicher, L., assignor.)  
 Starkey, L. H., New York, N. Y. Dial. Nos. 40,127-8; July 6; Gaz. vol. 144; p. 260.  
 Stathopoulos, A., New York, N. Y. Mandolin. No. 40,010; May 25; Gaz. vol. 142; p. 1094.  
 Steffin, A., assignor to Pairpoint Corporation, New Bedford, Mass. Glass vessel. No. 39,982; May 11; Gaz. vol. 142; p. 552.  
 Steffin, A., New Bedford, assignor to Pairpoint Corporation, Bedford, Mass. Glass vessel. No. 39,994; May 18; Gaz. vol. 142; p. 837.  
 Stephenson, J. F., Glenferrie, Victoria, assignor to J. & T. Muir, North Melbourne, Australia. Bedstead end. No. 40,109; June 29; Gaz. vol. 143; p. 1329.  
 Sternau & Co., S. (See Lattin, A. N., assignor.)  
 Sternau & Co., S. (See Nelson, C., assignor.)  
 Sternau & Co., S. (See Sternau and Nelson, assignors.)  
 Sternau & Co., S. (See Strassburger and Nelson, assignors.)  
 Sternau, S., and C. Nelson, New York, assignors to S. Sternau & Co., Brooklyn, N. Y. Vapor-stove. No. 39,968; May 4; Gaz. vol. 142; p. 267.  
 Sternau, S., and C. Nelson, New York, assignors to S. Sternau & Company, Brooklyn, N. Y. Chafing-dish and stand. No. 39,885; Mar. 16; Gaz. vol. 140; p. 739.  
 Stetson, F. L. (See Fuchs, E., assignor.)  
 Stevens, W. E., assignor to Sargent & Company, New Haven, Conn. Casket-trimming. No. 40,111; June 29; Gaz. vol. 143; p. 1330.  
 Stevens, W. E., assignor to Sargent & Company, New Haven, Conn. Casket-trimming. No. 40,198; Aug. 3; Gaz. vol. 145; p. 240.  
 Stevens, W. E., assignor to Sargent & Company, New Haven, Conn. Screw. No. 40,418; Dec. 28; Gaz. vol. 149; p. 1102.



*Alphabetical list of patentees of designs—Continued.*

- Stoeter, C., assignor to New York Button Works, New York, N. Y. Button. No. 40,118; July 6; Gaz. vol. 144; p. 258.  
 Stoeter, C., assignor to New York Button Works, New York, N. Y. Button. No. 40,135; July 13; Gaz. vol. 144; p. 545.  
 Stohr, S., Meriden, Conn. Spoon, fork, or similar article. No. 39,771; Jan. 19; Gaz. vol. 138; p. 751.  
 Stohr, S., assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 39,838; Feb. 23; Gaz. vol. 139; p. 971.  
 Stohr, S., assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 39,875; Mar. 16; Gaz. vol. 140; p. 737.  
 Stohr, S., assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 40,123; July 6; Gaz. vol. 144; p. 259.  
 Stone, W. M., New York, N. Y., assignor to Oxford Linen Mills. Fibrous sheet material for surgical dressings. No. 40,046; June 8; Gaz. vol. 143; p. 543.  
 Stowe, B. A., assignor to Jandus Electric Company, Cleveland, Ohio. Bracket for supporting fans and the like. No. 40,357; Nov. 16; Gaz. vol. 148; p. 817.  
 Stowick, J. L., Chicago, Ill. Salt or pepper box. No. 39,752; Jan. 12; Gaz. vol. 138; p. 505.  
 Strassburger, L., and C. Nelson, New York, assignors to S. Sternau & Co., Brooklyn, N. Y. Vapor-stove. No. 39,967; May 4; Gaz. vol. 142; p. 267.  
 Stratton, N. G., Chehalis, Wash. Wall-paper or similar article. No. 40,096; June 22; Gaz. vol. 143; p. 1089.  
 Strohacker, G., Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 40,007; May 25; Gaz. vol. 142; p. 1093.  
 Stults, A. P., Zanesville, Ohio. Grave-marker. No. 40,017; May 25; Gaz. vol. 142; p. 1095.  
 Sutterlin, F., assignor to National Board of Young Women's Christian Associations of the United States of America, New York, N. Y. Emblem. No. 39,749; Jan. 12; Gaz. vol. 138; p. 504.  
 Sullivan, J., Washington, D. C., assignor to J. T. McNicholas, New York, N. Y. Badge. No. 40,029; June 8; Gaz. vol. 143; p. 540.  
 Superior Manufacturing Company. (See Pyle, A., assignor.)  
 Swallow, J. E., Tacoma, Wash. Emblem. No. 40,073; June 22; Gaz. vol. 143; p. 1085.  
 Swan, A. H. S., assignor to Rochester Stamping Company, Rochester, N. Y. Chafing-dish stand. Nos. 40,211-12; Aug. 10; Gaz. vol. 145; p. 495.  
 Swank, L., Anderson, Ind. Wire fence. No. 39,861; Mar. 2; Gaz. vol. 140; p. 240.  
 Sworbel, J. A., assignor to McRae and Keeler, Attleboro, Mass. Medallion. No. 39,954; May 4; Gaz. vol. 142; p. 265.  
 T. B. Clark & Co. (See Pittman, R. H., assignor.)  
 Taber, C. W., Chicago, Ill. Fraternal emblem. No. 39,987; May 18; Gaz. vol. 142; p. 836.  
 Tams, W. H., Trenton, N. J. Dish. Nos. 40,152-4; July 20; Gaz. vol. 144; p. 801.  
 Tatum, J. M., Athens, Tex. Tobacco-pipe. No. 40,209; Aug. 10; Gaz. vol. 145; p. 494.  
 Taube, E., St. Paul, Minn. Picture-frame. No. 40,060; June 15; Gaz. vol. 143; p. 846.  
 Taylor, T. F., Bridgeport, Conn. Neck-ruff form. No. 39,830; Feb. 16; Gaz. vol. 139; p. 716.  
 Tebbis, A. B., New York, N. Y. Medallion or similar article. No. 40,172; July 27; Gaz. vol. 144; p. 1069.  
 Theo. A. Kochs Company. (See Pfanschmidt, C., assignor.)  
 Thomas Cusack Company. (See Loughlin, J. M., assignor.)  
 Thomas, J. F., assignor to J. E. Caldwell & Co., Philadelphia, Pa. Plaque. No. 40,258; Sept. 14; Gaz. vol. 146; p. 491.  
 Thompson, C. E., Troy, N. Y. Shaving-brush. Nos. 40,159-60; July 20; Gaz. vol. 144; p. 802.  
 Thompson, R. C., Attleboro, Mass. Brooch. No. 40,147; July 20; Gaz. vol. 144; p. 800.  
 Tiffany & Company. (See Southwick, A. A., assignor.)  
 Tilden, B. O., assignor to American Sanitary Works, New York, N. Y. Flush-tank. No. 40,402; Dec. 14; Gaz. vol. 149; p. 583.  
 Tilton, G. P., assignor to Towle Manufacturing Company, Newburyport, Mass. Spoon, fork, or similar article. No. 40,372; Nov. 30; Gaz. vol. 148; p. 1326.  
 Timberlake, P. J. (See Moore and Timberlake.)  
 Titus, W. G., Trenton, N. J. Stein or mug. No. 39,957; May 4; Gaz. vol. 142; p. 266.  
 Tobin, J. P., San Francisco, Cal. Organ or piano case. No. 39,790; Jan. 26; Gaz. vol. 138; p. 949.  
 Toledo Chamber of Commerce. (See Weingaertner, J. M., assignor.)  
 Topol, J., Chicago, Ill. Burial-casket. No. 40,016; May 25; Gaz. vol. 142; p. 1095.  
 Towle Manufacturing Company. (See Tilton, G. P., assignor.)  
 Tuck, A. R., Providence, R. I. Emblem. No. 39,945; May 4; Gaz. vol. 142; p. 264.  
 Tugwell, R. J., Maywood, Ill. Casing for combined illuminated house-number and door-bell push-button. No. 40,131; July 6; Gaz. vol. 144; p. 261.  
 Tures Manufacturing Company. (See Tures, W., assignor.)  
 Tures, W., Chicago, Ill., assignor to Tures Manufacturing Company, Milwaukee, Wis. Lighting-fixtue. No. 40,390; Dec. 7; Gaz. vol. 149; p. 292.  
 Turner, C. Y., New York, N. Y. Flag. No. 40,336; Nov. 9; Gaz. vol. 148; p. 551.  
 Turner, G. L., assignor to Reed & Barton Corporation, Taunton, Mass. Spoon or fork. No. 40,338; Nov. 9; Gaz. vol. 148; p. 551.  
 Turner, J. W., Des Moines, Iowa. Electroliter. No. 40,355; Nov. 16; Gaz. vol. 148; p. 817.  
 Udall and Ballou. (See Ward, F. W., assignor.)  
 Uhlisch, E., Gröna, Germany. Lace glove. No. 40,226; Aug. 10; Gaz. vol. 145; p. 498.  
 Ullman, G. H., assignor to L. Plaut & Co., New York, N. Y. Plaque for lighting-fixtures. Nos. 40,164-5; July 20; Gaz. vol. 144; p. 803.  
 United States Glass Company. (See Ripley, D. C., assignor.)  
 Valentine, D., East Orange, N. J. Fabric. No. 40,414; Dec. 21; Gaz. vol. 149; p. 815.  
 Valiquet, L. P., assignor to Complex Aural Company, Newark, N. J. Sounding-board for talking-machines. No. 40,130; July 6; Gaz. vol. 144; p. 261.  
 Van Cise, F. J. and W. C., Mayville, N. Y. Clock-case. No. 40,373; Nov. 30; Gaz. vol. 148; p. 1326.  
 Van Cise, W. C. (See Van Cise, F. J. and W. C.)  
 Victor Talking Machine Company. (See English, J. C., assignor.)  
 Victor Talking Machine Company. (See Johnson, E. R., assignor.)  
 Victor Talking Machine Company. (See Geissler, L. F., assignor.)  
 Vigilant Mills. (See Zschaemisch, O., assignor.)  
 Vogel, J. C., Philadelphia, Pa. Pipe-coupling. No. 39,859; Mar. 2; Gaz. vol. 140; p. 240.  
 Volat, L., Buffalo, N. Y. Child's cap. No. 40,028; June 1; Gaz. vol. 143; p. 243.  
 W. B. McLean Manufacturing Company. (See McLean, W. M., assignor.)  
 Wade, E. C., Nashville, Tenn. Chimney-cap. No. 40,236; Aug. 24; Gaz. vol. 145; p. 1007.  
 Walker, F. H., Newtown, Pa. Pile fabric. No. 39,863; Mar. 2; Gaz. vol. 140; p. 240.  
 Walker, G., assignor to Landers, Frary and Clark, New Britain, Conn. Pointer for weighing-scales. No. 39,782; Jan. 19; Gaz. vol. 138; p. 753.  
 Walker, M. H. (See Korman and Walker.)  
 Wallace, H. L., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon, fork, or similar article. No. 39,837; Feb. 23; Gaz. vol. 139; p. 970.  
 Wallis, O. W., Chicago, Ill. Handkerchief or similar article. No. 39,742; Jan. 5; Gaz. vol. 138; p. 233.  
 Ward, F. W., assignor to Udall and Ballou, New York, N. Y. Ring. No. 39,851; Mar. 2; Gaz. vol. 140; p. 238.  
 Warner, E., et al. (See Hyman, D. N., assignor.)  
 Waterbury Buckle Company. (See Moore, R. A., assignor.)  
 Watson & Newell Company. (See Heath, T., assignor.)  
 Watt, A. P., Baltimore, Md. Casing for vending-machines. No. 40,043; June 8; Gaz. vol. 143; p. 542.  
 Watt, A. P., Baltimore, Md. Casing for vending-machines. No. 40,285; Oct. 5; Gaz. vol. 147; p. 218.  
 Wayman & Wood Company. (See Korzinek, J., assignor.)  
 Wear, F. F., San Francisco, Cal. Coffee-bin. No. 40,085; June 22; Gaz. vol. 143; p. 1087.  
 Weber, P., Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-cabinet. No. 40,347; Nov. 9; Gaz. vol. 148; p. 553.  
 Weigang, W., Bautzen, Germany, assignor to C. O. von Kökeritz, Mount Vernon, N. Y. Cigar-band. Nos. 39,926-33; Apr. 20; Gaz. vol. 141; pp. 846-7.  
 Weihman, H. A., Philadelphia, Pa., assignor to Simons, Bro. & Company. Humidor for tobacco-cases. No. 40,105; June 29; Gaz. vol. 143; p. 1328.  
 Weihman, H. A., Philadelphia, Pa., assignor to Simon, Bro. & Company. Tea-ball. No. 40,155; July 20; Gaz. vol. 144; p. 801.  
 Weinberg, C., assignor to C. Weinberg & Co., New York, N. Y. Curtain-edging. No. 40,167; July 20; Gaz. vol. 144; p. 803.  
 Weingaertner, J. M., Newark, N. J., assignor to Toledo Chamber of Commerce, Toledo, Ohio. Emblem. No. 40,238; Aug. 31; Gaz. vol. 145; p. 1235.  
 Welch, A. D. (See Ashworth and Welch.)  
 Wendt, J. B., Los Angeles, Cal. Seal. No. 40,074; June 22; Gaz. vol. 143; p. 1085.  
 Whaley, J. A., New York, N. Y. Lamp-shade. No. 39,772; Jan. 19; Gaz. vol. 138; p. 751.

*Alphabetical list of patentees of designs—Continued.*

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- White, H. C., assignor to T. Develon, Jr., Philadelphia, Pa. Rug. No. 40,168; July 20; Gaz. vol. 144; p. 803.  
 Whiteman L. P., New York, N. Y. Hose-reel. No. 40,107; June 29; Gaz. vol. 143; p. 1329.  
 Whiting Manufacturing Company. (See Osborne, C., assignor.)  
 Whitman, C. M., New York, N. Y. Blanket. No. 39,978; May 4; Gaz. vol. 142; p. 269.  
 Whittall, M. J. (See Haas, F. A., assignor.)  
 Whittall, M. J. (See Perry, W. A., assignor.)  
 Wild, A. L., Providence, R. I. Emblem. No. 40,049; June 15; Gaz. vol. 143; p. 843.  
 Wilfson, M. (See Wilfson, M., assignor.)  
 Wilfson, M., assignor of one-half to M. Wilfson, Baltimore, Md. Match-receptacle. No. 39,907; Apr. 6; Gaz. vol. 141; p. 270.  
 Will, B., assignor to Sill Stove Works, Rochester, N. Y. Stove. Nos. 40,023-4; June 1; Gaz. vol. 143; pp. 242-3.  
 Will, B., assignor to Sill Stove Works, Rochester, N. Y. Stove. No. 40,292; Oct. 12; Gaz. vol. 147; p. 497.  
 William H. Horstmann Company. (See Rump, E., assignor.)  
 William M. Crane Company. (See Crane, W. M., assignor.)  
 William Schimper & Company. (See Babst, J., assignor.)  
 Williams, A. C., Ravenna, Ohio. Toy bank. No. 40,245; Aug. 31; Gaz. vol. 145; p. 1237.  
 Willis, H. M., Hempstead, N. Y. Stick-pin. No. 39,867; Mar. 9; Gaz. vol. 140; p. 490.  
 Wilson, J. H., Philadelphia, Pa. Clothes-rack. No. 40,413; Dec. 21; Gaz. vol. 149; p. 815.  
 Wohl, M. J., and H. Hertzberg, New York, N. Y., assignors to Economy Electric Company. Arc-lamp shell. No. 40,036; June 8; Gaz. vol. 143; p. 541.  
 Wohl, M. J., and H. Hertzberg, New York, N. Y., assignors to Economy Electric Company. Reflector for arc-lamps. No. 40,037; June 8; Gaz. vol. 143; p. 541.  
 Wojtecki, M., Chicago, Ill. Badge. No. 39,895; Mar. 30; Gaz. vol. 140; p. 1192.  
 Wood & Sons, N. G. (See Nutter, C. P., assignor.)  
 Woods, J. S., New York, N. Y. Spoon, fork, or similar article. No. 39,991; May 18; Gaz. vol. 142; p. 837.  
 Woodward, J. M. (See Merrill, G. S., assignor.)  
 Woodward, T. J., West Bromwich, assignor to Chance Brothers and Co. Limited, Glass Works, near Birmingham, England. Sheet-glass. No. 40,359; Nov. 16; Gaz. vol. 148; p. 817.  
 Wortley, C. C., Chicago, Ill. Sign. Nos. 39,881-2; Mar. 16; Gaz. vol. 140; p. 738.  
 Yacobbian, R. K., Philadelphia, Pa. Water-faucet attachment for mixing hot and cold water. No. 40,106; June 29; Gaz. vol. 143; p. 1329.  
 Yale & Towne Manufacturing Company. (See Ledin, C. L., assignor.)  
 Yeaton, M. E., Washington, D. C. Statuette. No. 40,416; Dec. 28; Gaz. vol. 149; p. 1102.  
 Zeltmacher, R. A., New York, N. Y. Smoking-pipe. No. 39,852; Mar. 2; Gaz. vol. 140; p. 238.  
 Ziegler, C., Limoges, France, assignor to J. Pouyat Company, New York, N. Y. Plate or similar article. No. 40,397; Dec. 14; Gaz. vol. 149; p. 582.  
 Zschaemisch, O., Cornwells, assignor to Vigilant Mills, Frankfort, Pa. Fabric. No. 40,254; Sept. 7; Gaz. vol. 146; p. 242.
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# ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

- A. Bboth & Company, Chicago, Ill.; Baltimore, Md.; St. Paul, Duluth, and Minneapolis, Minn.; St. Louis, Mo.; Louisville, Ky.; Omaha, Neb.; Indianapolis, Ind., and Port Arthur, Canada. Canned salmon and canned oysters. No. 72,778; Feb. 23; Gaz. vol. 139; p. 985.
- A. Burdall Company, Indianapolis, Ind. Floor-paint. No. 72,852; Mar. 2; Gaz. vol. 140; p. 249.
- A. Halliday & Company, New York, N. Y. Whisky. No. 75,199; Sept. 14; Gaz. vol. 146; p. 501.
- A. Luedemann, Inc., New York, N. Y. Prepared mustards. No. 75,109; Sept. 7; Gaz. vol. 146; p. 251.
- A. Schilling & Company, San Francisco, Cal. Baking-powder. No. 72,699; Feb. 16; Gaz. vol. 139; p. 725.
- A. Schoenbut Company, Philadelphia, Pa. Certain toys. No. 74,102; June 15; Gaz. vol. 143; p. 861.
- A. Schoenbut Company, Philadelphia, Pa. Toys. No. 75,675; Nov. 2; Gaz. vol. 148; p. 275.
- A. Stein & Company, Chicago, Ill. Garters. No. 75,265; Sept. 14; Gaz. vol. 146; p. 503.
- A. Ziegler & Sons Company, Boston, Mass. Suspenders and men's garters. No. 72,993; Mar. 9; Gaz. vol. 140; p. 502.
- A. B. Andrews Company, New York, N. Y. Hosiery. No. 72,125; Jan. 5; Gaz. vol. 138; p. 252.
- A. B. Andrews Company, New York, N. Y. Hosiery. No. 73,265; Apr. 6; Gaz. vol. 141; p. 282.
- A. B. Andrews Company, New York, N. Y. Hosiery. No. 74,082; June 15; Gaz. vol. 143; p. 860.
- A. B. Andrews Company, New York, N. Y. Hosiery. No. 75,148; Sept. 7; Gaz. vol. 146; p. 252.
- A. B. Chase Company, Norwalk, Ohio. Pianos, organs, and automatic piano-players. No. 72,612; Feb. 9; Gaz. vol. 139; p. 457.
- A. B. Dick Company, Chicago, Ill. Printing apparatus. No. 74,675; Aug. 3; Gaz. vol. 145; p. 251.
- A. B. McCrillis & Son Inc., Providence, R. I. Wheat-flour. No. 72,212; Jan. 12; Gaz. vol. 138; p. 523.
- A. B. McCrillis & Son Inc., Providence, R. I. Wheat-flour. Nos. 72,318-19; Jan. 19; Gaz. vol. 138; p. 763.
- A. B. McCrillis & Son Inc., Providence, R. I. Wheat-flour. No. 72,676; Feb. 9; Gaz. vol. 139; p. 459.
- A. B. McCrillis & Son Inc., Providence, R. I. Wheat-flour. No. 73,392; Apr. 13; Gaz. vol. 141; p. 563.
- A. B. McCrillis & Son Inc., Providence, R. I. Wheat-flour. Nos. 74,033-4; June 15; Gaz. vol. 143; p. 859.
- A. C. Reynolds Company. (See Reynolds Co., A. C., assignor.)
- A. E. Nettleton Company, Syracuse, N. Y. Men's leather shoes. No. 76,224; Dec. 28; Gaz. vol. 149; p. 1116.
- A. F. Cook & Company, Chicago, Ill. Coal. No. 74,035; June 15; Gaz. vol. 143; p. 859.
- A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y. Golf-balls. Nos. 72,411-12; Jan. 26; Gaz. vol. 138; p. 959.
- A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y. Golf-balls. No. 72,738; Feb. 16; Gaz. vol. 139; p. 726.
- A. G. Spalding & Bros., Jersey City, N. J. Base-balls. No. 74,402; July 13; Gaz. vol. 144; p. 557.
- A. H. Heisey & Co. Inc., Newark, Ohio. Pressed glassware. No. 75,897; Nov. 23; Gaz. vol. 148; p. 1082.
- A. J. Hilbert & Co. Inc., Milwaukee, Wis. Perfumes and toilet waters. No. 72,238; Jan. 12; Gaz. vol. 138; p. 523.
- A. J. Reach Company, Philadelphia, Pa. Base-balls. No. 74,791; Aug. 10; Gaz. vol. 145; p. 508.
- A. J. Tower Company, Portland, Me., and Boston, Mass. Waterproof textile oiled fabrics. No. 72,345; Jan. 19; Gaz. vol. 138; p. 764.
- A. S. Hopkins Company, Sacramento, Cal. Felt roofing. No. 74,715; Aug. 3; Gaz. vol. 145; p. 252.
- A. S. Hopkins Company, Sacramento, Cal. Rubber asbestos roofing. No. 74,716; Aug. 3; Gaz. vol. 145; p. 252.
- A/S Kopervik Hermetikfabrik, Kopervik, Norway. Canned sardines in olive-oil. No. 73,849; May 25; Gaz. vol. 142; p. 1110.
- Abbey & Imbrie, New York, N. Y. All kinds of fishing-tackle. No. 74,632; July 27; Gaz. vol. 144; p. 1086.
- Abbott Alkaloidal Co., Chicago, Ill. Medicine. No. 74,538; July 20; Gaz. vol. 144; p. 814.
- Abbott Alkaloidal Co., Chicago, Ill. Medicine for the relief of constipation. No. 75,029; Aug. 31; Gaz. vol. 145; p. 1245.
- Abel and Williams, Plainville, Ind. Remedy for hog-cholera. No. 72,511; Feb. 2; Gaz. vol. 139; p. 193.
- Abercrombie & Fitch Company, New York, N. Y. Dressing and preservative for leather goods. No. 73,504; Apr. 27; Gaz. vol. 141; p. 1157.
- Aberdeen Mill Company, Aberdeen, S. D. Wheat-flour. No. 75,794; Nov. 16; Gaz. vol. 148; p. 828.
- Aberdeen Mill Company, Aberdeen, S. D. Wheat-flour. Nos. 75,916-17; Nov. 30; Gaz. vol. 148; p. 1339.
- Ackerman, F. S., Chicago, Ill. Rectal suppositories. No. 73,608; May 4; Gaz. vol. 142; p. 284.
- Acme Wire Company, New Haven, Conn. Insulated electrical conductors. Nos. 72,677-9; Feb. 9; Gaz. vol. 139; p. 459.
- Acme Wire Company, New Haven, Conn. Electromagnets. No. 73,129; Mar. 16; Gaz. vol. 140; p. 753.
- Actiengesellschaft Paulanerbräu Salvatorbrauerei, Munich, Germany. Beer. No. 75,221; Sept. 14; Gaz. vol. 146; p. 502.
- Adams Argood Chocolate Co., Philadelphia, Pa. Chocolates or chocolate candies. No. 73,393; Apr. 13; Gaz. vol. 141; p. 563.
- Adams, I., Cleveland, Ohio. Internal remedy. No. 75,496; Oct. 12; Gaz. vol. 147; p. 513.
- Adams Medicine Company, Chicago, Ill. Remedy for constipation. No. 72,184; Jan. 5; Gaz. vol. 138; p. 253.
- Adams & Westlake Company, Chicago, Ill. Dynamoes, current-regulators, switches, and electric lamps. No. 73,130; Mar. 16; Gaz. vol. 140; p. 753.
- Adams & Westlake Company, Chicago, Ill. Certain lighting apparatus. No. 73,131; Mar. 16; Gaz. vol. 140; p. 753.
- Adjustable Arch Company, New York, N. Y. Instep-supports. No. 73,558; Apr. 27; Gaz. vol. 141; p. 1159.
- Adler & Ast, New York, N. Y. Certain clothing. No. 74,057; June 15; Gaz. vol. 143; p. 859.
- Adler & Co., J., New York, N. Y. Leather gloves. No. 75,833; Nov. 23; Gaz. vol. 148; p. 1081.
- Adolph Frankau & Co., Ltd., London, England, and New York, N. Y. Tobacco-pipes. No. 74,539; July 20; Gaz. vol. 144; p. 814.
- Adolph Raudnitz Company, Hoboken, N. J., and New York, N. Y. Hand-bags. No. 72,264; Jan. 12; Gaz. vol. 138; p. 524.
- Aeolian Co., New York, N. Y. Reed wind instruments. No. 73,229; Apr. 6; Gaz. vol. 141; p. 281.
- Aeolian Company, New York, N. Y. Pianos and player-pianos. Nos. 74,959-60; Aug. 24; Gaz. vol. 145; p. 1017.
- Aero Publishing Company, Philadelphia, Pa. Magazines published monthly. No. 74,244; June 29; Gaz. vol. 143; p. 1339.
- Agatine Shoe-Hook and Eyelet Company, Newark, N. J. Shoe lacing hooks and studs. No. 75,888; Nov. 23; Gaz. vol. 148; p. 1082.
- Ahearn, P., St. Louis, Mo. Salve. No. 74,356; July 6; Gaz. vol. 144; p. 272.
- Aikin-Lambert Company, New York, N. Y. Pencils, pencil-cases, penholders, and pen-cases. No. 75,657; Nov. 2; Gaz. vol. 148; p. 275.
- Aitken, H. W., Glasgow, Scotland. Roller-mill castings. No. 74,792; Aug. 10; Gaz. vol. 145; p. 508.
- Akin-Erskine Milling Co., Evansville, Ind. Wheat-flour. No. 73,432; Apr. 20; Gaz. vol. 141; p. 862.
- Akin, W. J., New York, N. Y. Puzzles. No. 75,110; Sept. 7; Gaz. vol. 146; p. 251.
- Aktiengesellschaft vormals B. Siegfried, Zofingen, Switzerland. Remedy for gonorrhea. No. 75,951; Nov. 30; Gaz. vol. 148; p. 1340.
- Alabama Corn Mills Co., Mobile, Ala. Alfalfa stock food. No. 75,067; Aug. 31; Gaz. vol. 145; p. 1246.
- Alamo Iron Works, San Antonio, Tex. Pumping-jacks. Nos. 74,676-9; Aug. 3; Gaz. vol. 145; p. 251.
- Alart & McGuire, New York, N. Y. Olives, mustard, capers, and pickles. No. 73,988; June 8; Gaz. vol. 143; p. 557.
- Alart & McGuire, New York, N. Y. Glass bottles. No. 74,058; June 15; Gaz. vol. 143; p. 859.
- Alaska Codfish Co., San Francisco, Cal. Flaked codfish. No. 74,752; Aug. 10; Gaz. vol. 145; p. 507.
- Alaska Packers Association, San Francisco, Cal. Canned salmon. No. 72,680; Feb. 9; Gaz. vol. 139; p. 459.
- Alaska Packers Association, San Francisco, Cal. Canned salmon. No. 72,739; Feb. 16; Gaz. vol. 139; p. 726.
- Alaska Packers Association, San Francisco, Cal. Canned salmon. No. 72,917; Mar. 2; Gaz. vol. 140; p. 251.
- Alaska Packers Association, San Francisco, Cal. Canned salmon. No. 73,850; May 25; Gaz. vol. 142; p. 1110.
- Alaska Packers Association, San Francisco, Cal. Canned salmon. No. 73,966; June 8; Gaz. vol. 143; p. 557.
- Alaska Refrigerator Co., Muskegon, Mich. Refrigerators. No. 74,083; June 15; Gaz. vol. 143; p. 860.
- Albaugh-Dover Co., Chicago, Ill. Cameras and parts thereof, developing-paper, plates, and plate-holders. No. 75,349; Sept. 28; Gaz. vol. 146; p. 953.
- Albaugh-Dover Co., Chicago, Ill. Liquid-separators. No. 75,523; Oct. 12; Gaz. vol. 147; p. 513.
- Albemarle Paper Manufacturing Company, Richmond, Va. Blotting-paper. No. 72,083; Jan. 5; Gaz. vol. 138; p. 251.
- Albemarle Paper Manufacturing Company, Richmond, Va. Blotting-paper. No. 72,402; Jan. 26; Gaz. vol. 138; p. 959.
- Albert Dickinson Company, Chicago, Ill. Shelled popcorn. No. 72,979; Mar. 9; Gaz. vol. 140; p. 501.
- Albert L. Calder Co. Inc., Providence, R. I. Tooth powder, paste, and soap. No. 73,464; Apr. 20; Gaz. vol. 141; p. 862.
- Alberti, G., Benevento, Italy. Cordial. No. 75,549; Oct. 19; Gaz. vol. 147; p. 767.
- Albrecht, H. C., Baltimore, Md. Peanut and molasses taffy. No. 73,989; June 8; Gaz. vol. 143; p. 557.
- Albrecht, W., Boston, Mass. Ale, stout, porter, lager-beer, and malt extracts. Nos. 72,646-7; Feb. 9; Gaz. vol. 139; p. 458.
- Albrecht, W., Boston, Mass. Beer and ale. No. 73,609; May 4; Gaz. vol. 142; p. 284.
- Aldrich & Smith, Boston, Mass. Chocolate candy. No. 73,668; May 11; Gaz. vol. 142; p. 563.
- Alegretti Manufacturing Company, Geneva, N. Y. Razor-strops. No. 72,779; Feb. 23; Gaz. vol. 139; p. 985.
- Alexander, M., Winfield, Kans. Wheat-flour. No. 75,389; Sept. 28; Gaz. vol. 146; p. 954.
- Allen & Co., S. L., Philadelphia, Pa. Sleighs, sleds, and coasters. No. 74,917; Aug. 17; Gaz. vol. 145; p. 761.



*Alphabetical list of registrants of trade-marks—Continued.*

- Allen & Hanburys Co., Ltd., Toronto, Ontario, Canada. Cod-liver and castor oils. No. 73,967; June 8; Gaz. vol. 143; p. 557.
- Allen & Hanburys Co., Ltd., Toronto, Ontario, Canada. Certain foods. No. 74,307; July 6; Gaz. vol. 144; p. 271.
- Allen & Hanburys Co., Ltd., Toronto, Ontario, Canada. Compound of malt extract and cod-liver oil. No. 74,649; July 27; Gaz. vol. 144; p. 1086.
- Allen & Hanburys Co., Ltd., Toronto, Ontario, Canada. Certain foods. No. 74,680; Aug. 3; Gaz. vol. 145; p. 251.
- Allen, W. H., Detroit, Mich. Petticoats. No. 75,834; Nov. 23; Gaz. vol. 148; p. 1081.
- Allen & Wheeler Company, Troy, Ohio. Wheat-flour and commel. No. 72,780; Feb. 23; Gaz. vol. 139; p. 985.
- Altenberg, L., San Francisco, Cal. Whisky. No. 72,320; Jan. 19; Gaz. vol. 138; p. 763.
- Allison, J. F., Washington, D. C. Antiseptic wash. No. 75,241; Sept. 14; Gaz. vol. 146; p. 502.
- Already Pure Food Co., Boston, Mass. Compositions for making plum-pudding. No. 74,308; July 6; Gaz. vol. 144; p. 271.
- Alsberg & Co., W., New York, N. Y. Canvas used for interlining garments. No. 76,170; Dec. 21; Gaz. vol. 149; p. 830.
- Alsberg, W., Philadelphia, Pa. Hosiery. No. 75,676; Nov. 2; Gaz. vol. 148; p. 275.
- Altpeter, O., Baraboo, Wis. Ginger-ale. No. 74,717; Aug. 3; Gaz. vol. 145; p. 252.
- Aluminum Pen Company, Buffalo, N. Y. Metal writing-pens, lead-pencils, and penholders. No. 74,112; June 22; Gaz. vol. 143; p. 1103.
- Amalgamated Gum Company, Troy, N. Y. Chemical starch preparations. No. 75,594; Oct. 26; Gaz. vol. 147; p. 1031.
- Ambrosia Chocolate Company, Milwaukee, Wis. Chocolate candy. No. 73,852; May 25; Gaz. vol. 142; p. 1110.
- American Agricultural Chemical Company, New York, N. Y. Fertilizers. No. 74,426; July 13; Gaz. vol. 144; p. 557.
- American Annual of Photography, New York, N. Y. Photographic magazine published yearly. No. 72,781; Feb. 23; Gaz. vol. 139; p. 985.
- American Brake Shoe and Foundry Company, New York, N. Y. Manganese-steel castings. No. 74,427; July 13; Gaz. vol. 144; p. 557.
- American Brake Shoe & Foundry Company, Mahwah, N. J., and New York, N. Y. Brake-shoes. Nos. 74,793-4; Aug. 10; Gaz. vol. 145; p. 508.
- American Broom & Brush Co., Amsterdam, N. Y. Brooms. No. 72,348; Jan. 19; Gaz. vol. 138; p. 764.
- American Caramel Co., Philadelphia and Lancaster, Pa. Caramels. Nos. 73,266-72; Apr. 6; Gaz. vol. 141; p. 282.
- American Caramel Co., Philadelphia and Lancaster, Pa. Coconut candy. No. 73,394; Apr. 13; Gaz. vol. 141; p. 563.
- American Caramel Co., Philadelphia and Lancaster, Pa. Coconut candy. No. 73,505; Apr. 27; Gaz. vol. 141; p. 1157.
- American Carbolite Company, Duluth, Minn. Calcium carbide. No. 72,782; Feb. 23; Gaz. vol. 139; p. 985.
- American Cement Plaster Co., Lawrence, Kans. Cement plaster. No. 74,428; July 13; Gaz. vol. 144; p. 557.
- American Coffee Co. of N. O. Ltd., New Orleans, La. Coffee. No. 74,260; June 29; Gaz. vol. 143; p. 1340.
- American Combustion Company, New York, N. Y. Oil-spraying apparatus for furnaces and gas-generators. No. 75,181; Sept. 14; Gaz. vol. 146; p. 501.
- American Conduit Mfg. Co., Pittsburg, Pa. Electric-conduit pipes. No. 73,690; May 11; Gaz. vol. 142; p. 564.
- American Cotton Oil Company, Cincinnati, Ohio. Cotton-seed oil. Nos. 72,084-5; Jan. 5; Gaz. vol. 138; p. 251.
- American Cotton Oil Company, Cincinnati, Ohio. Cotton-seed oil intended for use as a salad-oil. No. 72,442; Jan. 26; Gaz. vol. 138; p. 960.
- American Cotton Oil Company, Cincinnati, Ohio. Cotton-seed oil for use as an illuminating-oil. No. 72,853; Mar. 2; Gaz. vol. 140; p. 249.
- American Cotton Oil Company, West New York, N. J. Cotton-seed oil. No. 72,413; Jan. 26; Gaz. vol. 138; p. 959.
- American Cotton Oil Company, West New York, N. J. Cotton-seed oil for use in soap-making and for industrial purposes only. No. 72,531; Feb. 2; Gaz. vol. 139; p. 193.
- American Cotton Oil Company, West New York, N. J. Cotton-seed oil. No. 72,777; Feb. 16; Gaz. vol. 139; p. 727.
- American Cotton Oil Company, West New York, N. J. Cotton-seed oil used as food. Nos. 73,354-5; Apr. 13; Gaz. vol. 141; p. 562.
- American Cuckoo Clock Company, Philadelphia, Pa. Clocks. No. 75,111; Sept. 7; Gaz. vol. 146; p. 251.
- American Electrical Heater Co., Detroit, Mich. Certain electrical apparatus. No. 72,414; Jan. 26; Gaz. vol. 138; p. 959.
- American Electrical Novelty & Manufacturing Company, New York, N. Y. Electrical apparatus. No. 76,009; Dec. 7; Gaz. vol. 149; p. 305.
- American Electrical Novelty & Manufacturing Company, New York, N. Y. Electric batteries. No. 76,010; Dec. 7; Gaz. vol. 149; p. 305.
- American Fibre Matting Company, Lawrence, Mass., and New York, N. Y. Certain textiles. No. 76,097; Dec. 14; Gaz. vol. 149; p. 598.
- American Game Company, Paris, Tenn. Card game. No. 72,918; Mar. 2; Gaz. vol. 140; p. 251.
- American Hard Rubber Co., New York, N. Y. Rubber tiling. No. 74,334; July 6; Gaz. vol. 144; p. 271.
- American Hominy Company, Indianapolis, Ind. Flaked corn products. No. 73,170; Mar. 23; Gaz. vol. 140; p. 997.
- American Hominy Company, Indianapolis, Ind. Hominy-grits, cornmeal, hominy, and corn-flake. No. 73,171; Mar. 27; Gaz. vol. 140; p. 997.
- American Hominy Company, Indianapolis, Ind. Cornmeal. No. 73,433; Apr. 20; Gaz. vol. 141; p. 862.
- American Hominy Company, Indianapolis, Ind. Hominy-grits, cornmeal, and cream-meal. No. 74,599; July 27; Gaz. vol. 144; p. 1085.
- American Hominy Company, Indianapolis, Ind. Certain cereal foods. No. 74,600; July 27; Gaz. vol. 144; p. 1085.
- American Hominy Company, Indianapolis, Ind. Stock food. No. 75,421; Oct. 5; Gaz. vol. 147; p. 231.
- American Hominy Company, Indianapolis, Ind. Stock feed. No. 75,595; Oct. 26; Gaz. vol. 147; p. 1031.
- American Lady Corset Co., Detroit, Mich. Corsets. Nos. 72,783-4; Feb. 23; Gaz. vol. 139; p. 985.
- American Lady Corset Co., Detroit, Mich. Corsets. No. 74,217; June 29; Gaz. vol. 143; p. 1339.
- American Lead Pencil Company, New York, N. Y. Penholders. Nos. 73,691-3; May 11; Gaz. vol. 142; p. 564.
- American Lead Pencil Company, New York, N. Y. Lead-pencils. Nos. 74,113-14; June 22; Gaz. vol. 143; p. 1103.
- American Lead Pencil Company, New York, N. Y. Penholders. No. 75,289; Sept. 21; Gaz. vol. 146; p. 715.
- American Manufacturing Company, Charleston, W. Va., and New York, N. Y. Rope and cord manufactured from vegetable fiber. No. 73,610; May 4; Gaz. vol. 142; p. 284.
- American Manufacturing Company, Charleston, W. Va., and New York, N. Y. Packing for pipe-joints. No. 73,633; May 4; Gaz. vol. 142; p. 284.
- American Manufacturing Company, Charleston, W. Va., and New York, N. Y. Rope and lines. No. 73,990; June 8; Gaz. vol. 143; p. 557.
- American Manufacturing Company, Charleston, W. Va., and New York, N. Y. Jute bagging. Nos. 75,480-1; Oct. 5; Gaz. vol. 147; p. 232.
- American Manufacturing Company, Charleston, W. Va., and New York, N. Y. Rope, cord, lines, and twine manufactured from vegetable fiber. Nos. 75,635-6; Oct. 26; Gaz. vol. 147; p. 1032.
- American Manufacturing Co. Inc., Vicksburg, Miss. Carbonated non-alcoholic beverage. No. 75,290; Sept. 21; Gaz. vol. 146; p. 715.
- American Marine Equipment Co., Boston, Mass. Metal-polish. No. 74,653; July 27; Gaz. vol. 144; p. 1087.
- American Mineral Cleanser Co., New York, N. Y. Abrasive polishing material. No. 75,149; Sept. 7; Gaz. vol. 146; p. 252.
- American Microscope and Biograph Company, New York, N. Y. Moving-picture apparatus and films. Nos. 75,030-1; Aug. 31; Gaz. vol. 145; p. 1245.
- American Oil Company, Jackson, Mich. Lubricating-oils. No. 72,854; Mar. 2; Gaz. vol. 140; p. 249.
- American Paving & Manufacturing Company, Indianapolis, Ind. Bituminous and concrete pavements and sidewalks. No. 76,098; Dec. 14; Gaz. vol. 149; p. 598.
- American Pin Co., Waterville, Conn. Hooks and eyes. Nos. 73,146-7; Mar. 23; Gaz. vol. 140; p. 997.
- American Poultry Journal Pub. Co., Chicago, Ill. Monthly magazine. No. 74,059; June 15; Gaz. vol. 143; p. 859.
- American Radiator Company, Chicago, Ill. Radiators. No. 72,648; Feb. 9; Gaz. vol. 139; p. 458.
- American Radiator Company, East Orange, N. J.; Chicago, Ill.; New York, N. Y.; Philadelphia, Pa.; Boston, Mass.; London, England; Paris, France, and Berlin, Germany. Radiators. Nos. 73,694-5; May 11; Gaz. vol. 142; p. 564.
- American Radiator Company, East Orange, N. J.; Chicago, Ill.; New York, N. Y.; Philadelphia, Pa.; Boston, Mass.; London, England; Paris, France, and Berlin, Germany. Boilers and heaters. No. 75,777; Nov. 16; Gaz. vol. 148; p. 827.
- American Roofing Company, Salina, Kans., and Kansas City, Mo. Composition roofing. No. 72,239; Jan. 12; Gaz. vol. 138; p. 523.
- American Sanitary Works, New York, N. Y. Certain plumbing-supplies. No. 73,092; Mar. 16; Gaz. vol. 140; p. 752.
- American Sanitary Works, New York, N. Y. Closet tanks and seats and seat-covers. No. 75,550; Oct. 19; Gaz. vol. 147; p. 767.
- American Steam Packing Company, Boston, Mass. Engine and machinery packing. No. 73,696; May 11; Gaz. vol. 142; p. 564.
- American Steel Foundries, Jersey City, N. J.; New York, N. Y., and Chicago, Ill. Railway-car couplings. No. 73,250; Apr. 6; Gaz. vol. 141; p. 281.
- American Sugar Refining Company, Jersey City, N. J. Granulated sugar. Nos. 73,093-8; Mar. 16; Gaz. vol. 140; p. 752.
- American Sugar Refining Company, Jersey City, N. J. Hard sugar. Nos. 73,099-101; Mar. 16; Gaz. vol. 140; p. 752.
- American-Swiss Watch Co., New York, N. Y. Watches, watch cases and movements. Nos. 73,486-7; Apr. 27; Gaz. vol. 141; p. 1157.
- American Tap Bush Company, Detroit, Mich. Beer taps and bushes. No. 75,736; Nov. 9; Gaz. vol. 148; p. 565.
- American Thread Company, Jersey City, N. J. Spool-cotton, sewing-cotton, and thread. No. 72,545; Feb. 23; Gaz. vol. 139; p. 194.
- American Thread Company, Jersey City, N. J. Spool-cotton, sewing-cotton, and thread. Nos. 72,855-7; Mar. 2; Gaz. vol. 140; p. 249.
- American Thread Company, Jersey City, N. J. Spool-cotton, sewing-cotton, and thread. No. 72,955; Mar. 2; Gaz. vol. 140; p. 252.
- American Thread Company, Jersey City, N. J. Spool-cotton, sewing-cotton, and thread. No. 73,230; Apr. 6; Gaz. vol. 141; p. 281.
- American Thread Company, Jersey City, N. J. Spool and sewing cotton, thread, and cotton yarn. Nos. 73,968-71; June 8; Gaz. vol. 143; p. 557.
- American Thread Company, Jersey City, N. J. Spool sewing-cotton, thread, and cotton yarn. Nos. 74,357-8; July 6; Gaz. vol. 144; p. 272.
- American Undergarment Co., Newark, N. J. Ladies' undergarments. No. 72,858; Mar. 2; Gaz. vol. 140; p. 249.
- American Vitalizing Company, Oakland, Cal. Preparation of oils and greases for softening leather and rubber. No. 75,350; Sept. 28; Gaz. vol. 146; p. 953.



*Alphabetical list of registrants of trade-marks—Continued.*

- American Woolen Company, Jersey City, N. J., and Boston, Mass. Woolen cloth. No. 72,760; Feb. 16; Gaz. vol. 139; p. 726.  
 American Woolen Company, Boston, Mass. Woolen cloth. No. 76,099; Dec. 14; Gaz. vol. 149; p. 598.  
 American Wringer Company, New York, N. Y. Clothes-wringers. No. 76,011; Dec. 7; Gaz. vol. 149; p. 305.  
 American Wringer Company, New York, N. Y. Wringer-rolls. No. 76,134; Dec. 21; Gaz. vol. 149; p. 829.  
 Amies Asphalt Company, Philadelphia, Pa. Paving composition. No. 75,658; Nov. 2; Gaz. vol. 148; p. 275.  
 Amoskeag Manufacturing Company, Manchester, N. H. Gingham. No. 72,859; Mar. 2; Gaz. vol. 140; p. 250.  
 Amoskeag Manufacturing Company, Manchester, N. H. Cotton goods woven in colors. No. 73,420; Apr. 20; Gaz. vol. 141; p. 861.  
 Amoskeag Manufacturing Company, Manchester, N. H. Woven cotton goods having napped surfaces. Nos. 74,192-3; June 22; Gaz. vol. 143; p. 1105.  
 Amoskeag Manufacturing Company, Manchester, N. H. Certain textiles. No. 74,194; June 22; Gaz. vol. 143; p. 1105.  
 Amsterdam Broom Co., Amsterdam, N. Y. Brooms and brushes. Nos. 73,309-12; Apr. 13; Gaz. vol. 141; p. 561.  
 Amsterdam Broom Co., Amsterdam, N. Y. Brooms and brushes. No. 73,403; Apr. 20; Gaz. vol. 141; p. 861.  
 Amsterdamsche Likeurstokerij "T Loojsje" der Erven Lucas Bols, Amsterdam, Netherlands, and New York, N. Y. Cordials. No. 74,897; Aug. 17; Gaz. vol. 145; p. 760.  
 Anchor Spring & Bedding Co., Nashville, Tenn. Bed-springs. No. 73,917; June 1; Gaz. vol. 143; p. 254.  
 Ancienne manufacture d'horlogerie, Patek, Philippe et Co., société anonyme, Geneva, Switzerland. Watches and parts thereof. No. 72,349; Jan. 19; Gaz. vol. 138; p. 764.  
 Anderson, A. A., Waco, Tex. Straight Bourbon whisky. No. 75,032; Aug. 31; Gaz. vol. 145; p. 1245.  
 Anderson, A. A., Tacoma, Wash. Hair-tonics. No. 75,422; Oct. 5; Gaz. vol. 147; p. 231.  
 Anderson, P. A., Omaha, Neb. Detergent cleaning apparatus. No. 74,060; June 15; Gaz. vol. 143; p. 859.  
 Anderson, W. J., Norwalk, Conn. Tonics and restoratives for horses. No. 74,084; June 15; Gaz. vol. 143; p. 860.  
 Andolin, M. C., New York, N. Y. Insect-destroyer. No. 72,830; Mar. 2; Gaz. vol. 140; p. 249.  
 Andrew J. Lloyd Company, Boston, Mass. Marine, field, and opera glasses. No. 73,531; Apr. 27; Gaz. vol. 141; p. 1158.  
 Andrew Kerr Co., Inc., Somerville, Mass. Canned clams. No. 76,062; Dec. 14; Gaz. vol. 149; p. 597.  
 Andrew Lohr Bottling Company, Cairo, Ill. Artificially-flavored carbonated non-alcoholic beverages. No. 74,654; July 27; Gaz. vol. 144; p. 1087.  
 Anekstein, I. (See Anekstein & Kram, assignors.)  
 Anekstein & Kram, assignors to I. Anekstein, New York, N. Y. Ladies' waists. No. 72,265; Jan. 12; Gaz. vol. 138; p. 524.  
 Anglo-American Stock Food Company, Chicago, Ill. Stock-tonic. No. 76,171; Dec. 21; Gaz. vol. 149; p. 830.  
 Anheuser-Busch Brewing Association, St. Louis, Mo. Non-intoxicating malt beverage. No. 75,291; Sept. 21; Gaz. vol. 146; p. 715.  
 Aniline Color and Extract Works, formerly John R. Geigy, Basel, Switzerland. Coal-tar dyestuffs. No. 73,058; Mar. 16; Gaz. vol. 140; p. 751.  
 Anso Company, Binghamton, N. Y. Certain chemical solutions and compounds and preparations. No. 72,477; Jan. 26; Gaz. vol. 138; p. 961.  
 Anso Company, Binghamton, N. Y. Photographic paper. No. 72,478; Jan. 26; Gaz. vol. 138; p. 961.  
 Anso Company, Binghamton, N. Y. Certain chemicals and photographic preparations. No. 72,512; Feb. 2; Gaz. vol. 139; p. 193.  
 Anso Company, Binghamton, N. Y. Photographic nitrocellulose, photographic varnish, and photographic collodion. No. 72,980; Mar. 9; Gaz. vol. 140; p. 501.  
 Anso Company, Binghamton, N. Y. Photographic-screen holders and photographic-printing frames. No. 74,335; July 6; Gaz. vol. 144; p. 271.  
 Anthony, J. W., Lynn, Mass. Hand-bags, pocket-books, purses, and straps for the same. No. 74,994; Aug. 24; Gaz. vol. 145; p. 1018.  
 Anthony, J. W., Lynn, Mass. Purses. No. 74,995; Aug. 24; Gaz. vol. 145; p. 1018.  
 Anti Borax Compound Company, Fort Wayne, Ind. Compound used in welding metals. No. 75,497; Oct. 12; Gaz. vol. 147; p. 513.  
 Antinori, L. e P., Florence, Italy. White Chianti wine. No. 75,952; Nov. 30; Gaz. vol. 148; p. 1340.  
 Antinori, L. e P., Florence, Italy. Old red Chianti wine. No. 76,012; Dec. 7; Gaz. vol. 149; p. 305.  
 Apache Cotton Oil & Manufacturing Company, Chickasha, Okla. Cotton-seed meal. No. 74,036; June 15; Gaz. vol. 143; p. 859.  
 Apfin & Barrett & Western Counties Creameries Limited, Yeovil, England. Soluble solid soup compound. No. 74,245; June 29; Gaz. vol. 143; p. 1339.  
 Apsley Rubber Company, Hudson, Mass. Rubber footwear. No. 75,984; Dec. 7; Gaz. vol. 149; p. 305.  
 Aquino, G., New York, N. Y. Cordial. No. 72,140; Jan. 5; Gaz. vol. 138; p. 252.  
 Arbuckle Brothers, New York, N. Y. Coffee. No. 72,086; Jan. 5; Gaz. vol. 138; p. 251.  
 Arbuckle Brothers, New York, N. Y. Blended coffee. No. 74,037; June 15; Gaz. vol. 143; p. 859.  
 Archer Rubber Company, Milford, Mass. Rubberized swimming-collars. No. 72,403; Jan. 26; Gaz. vol. 138; p. 959.  
 Argyle Co., New York, N. Y. Undershirts, drawers, and union suits. No. 72,700; Feb. 16; Gaz. vol. 139; p. 725.  
 Argyle Co., New York, N. Y. Undershirts, drawers, and union suits. No. 75,551; Oct. 19; Gaz. vol. 147; p. 767.  
 Arizona Turquoise Mines Co., New York, N. Y. Certain jewelry. No. 75,242; Sept. 14; Gaz. vol. 146; p. 502.  
 Arledge, W. A., Greenville, S. C. Garment-supporters. No. 73,532; Apr. 27; Gaz. vol. 141; p. 1158.  
 Arlington Company, New York, N. Y. Rubber collars and cuffs. No. 73,929; June 1; Gaz. vol. 143; p. 254.  
 Armbruster & Farrell, Chicago, Ill. Pipe-fittings and valves. No. 73,877; May 25; Gaz. vol. 142; p. 1110.  
 Arms & Kidder, Wyandotte county, Kans. Wheat-flour. No. 72,113; Jan. 5; Gaz. vol. 138; p. 252.  
 Armstrong Cork Co., Pittsburg, Pa. Insulating material containing cork. No. 72,785; Feb. 23; Gaz. vol. 139; p. 985.  
 Armstrong-Quam Manufacturing Company, Waterloo, Iowa. Internal-combustion engines. No. 75,464; Oct. 5; Gaz. vol. 147; p. 232.  
 Armstrong, R. R., Terre Haute, Ind. Soda beverage. No. 74,540; July 20; Gaz. vol. 144; p. 814.  
 Arnold, F. H., Reading, Pa. Safety-razors. No. 74,429; July 13; Gaz. vol. 144; p. 557.  
 Arnold Print Works, North Adams, Mass. Certain textile fabrics. No. 76,172; Dec. 21; Gaz. vol. 149; p. 830.  
 Arnold Shoe Company, North Abington, Mass. Leather boots and shoes. No. 74,753; Aug. 10; Gaz. vol. 145; p. 507.  
 Art Stove Company, Detroit, Mich. Stoves and ranges. No. 73,313; Apr. 13; Gaz. vol. 141; p. 561.  
 Aschner, F. H., Schlachtensee, near Berlin, Germany. Medicinal electrolytic preparations. No. 72,321; Jan. 19; Gaz. vol. 138; p. 763.  
 Ashe, Noyes & Small Company, Auburn, Me. Leather shoes. No. 75,912; Nov. 23; Gaz. vol. 148; p. 1083.  
 Asiatic Petroleum Company, Limited, London, England. Petroleum spirits for automobiles. No. 74,007; June 8; Gaz. vol. 143; p. 558.  
 Aspegren & Co., New York, N. Y. Cotton-seed oil. No. 74,246; June 29; Gaz. vol. 143; p. 1340.  
 Aspegren & Co., New York, N. Y. Cotton-seed oil. No. 75,269; Sept. 21; Gaz. vol. 146; p. 715.  
 Asphalt Roofing Company, Saginaw, Mich. Fibrous sheets of material for roofing purposes. No. 75,150; Sept. 7; Gaz. vol. 146; p. 252.  
 Aste, A. L., New York, N. Y. Black shoe-polish. No. 75,292; Sept. 21; Gaz. vol. 146; p. 715.  
 Astier, P., Paris, France. Remedy for diseases of the urinary organs. No. 72,513; Feb. 2; Gaz. vol. 139; p. 193.  
 Athens Knitting Company, Athens, N. Y. Knit underwear. No. 75,835; Nov. 23; Gaz. vol. 148; p. 1081.  
 Athey, C. M., Baltimore, Md. Face and scalp lotions. No. 75,953; Nov. 30; Gaz. vol. 148; p. 1340.  
 Atlantic City Candy Company (Incorporated), Atlantic City, N. J. Salt-water taffy. No. 73,102; Mar. 16; Gaz. vol. 140; p. 752.  
 Atlantic Export Company, New York, N. Y. Dried brewer's grain. No. 75,889; Nov. 23; Gaz. vol. 148; p. 1082.  
 Atlantic Refining Company, Cleveland, Ohio. Petroleum oils and greases for lubricating purposes. No. 76,225; Dec. 28; Gaz. vol. 149; p. 1116.  
 Atlantic Rubber Company, Hyde Park, Mass. Rubber heels, bathing-caps, and rain-coats. No. 73,273; Apr. 6; Gaz. vol. 141; p. 282.  
 Ault & Wiborg Co., Cincinnati, Ohio. Printing-ink. Nos. 73,404-5; Apr. 20; Gaz. vol. 141; p. 861.  
 Aumann, L. F., Fort Wayne, Ind. Cigars. No. 72,415; Jan. 26; Gaz. vol. 138; p. 959.  
 Austin, Nichols & Co., New York, N. Y. Canned salmon and dried salt codfish. No. 75,836; Nov. 23; Gaz. vol. 148; p. 1081.  
 Austin, Nichols & Co., New York, N. Y. Italian olive-oil. No. 75,918; Nov. 30; Gaz. vol. 148; p. 1339.  
 Austin, Nichols & Co., New York, N. Y. Blended coffee. No. 75,919; Nov. 30; Gaz. vol. 148; p. 1339.  
 Austin, Nichols & Co., New York, N. Y. Blended tea. No. 76,063; Dec. 14; Gaz. vol. 149; p. 597.  
 Austin, Nichols & Co., New York, N. Y. Certain foods. No. 76,064; Dec. 14; Gaz. vol. 149; p. 597.  
 Austin, Nichols & Co., New York, N. Y. Canned salmon. No. 76,173; Dec. 21; Gaz. vol. 149; p. 830.  
 Auto Tire Security Company, Chicago, Ill. Composition for preventing leakage of air. No. 75,423; Oct. 5; Gaz. vol. 147; p. 231.  
 Avery Stamping Company, Cleveland, Ohio. Metal cooking utensils. No. 72,994; Mar. 9; Gaz. vol. 140; p. 502.  
 Azusa-Covina-Glendorra Fruit Exchange, Azusa, Cal. Citrus fruits. Nos. 76,100-1; Dec. 14; Gaz. vol. 149; p. 598.  
 Azusa Foot-Hill Citrus Association, Azusa, Cal. Oranges, grape-fruits, tangerines, and lemons. Nos. 75,920-1; Nov. 30; Gaz. vol. 148; p. 1339.  
 B. A. Ballou & Co., Inc., Providence, R. I. Certain jewelry. No. 72,995; Mar. 9; Gaz. vol. 140; p. 502.  
 B. F. Goodrich Company, Akron, Ohio. Hose made wholly or partly of rubber or having rubber incorporated therewith. No. 73,406; Apr. 20; Gaz. vol. 141; p. 861.  
 B. F. Goodrich Company, Akron, Ohio. Hose and machinery packing. No. 73,407; Apr. 20; Gaz. vol. 141; p. 861.  
 B. F. Perkins & Son, Incorporated, Holyoke, Mass. Paper-testing machines. No. 72,681; Feb. 9; Gaz. vol. 139; p. 459.  
 Bachman, D., Newark, N. J. Small hand-fireworks. No. 74,541; July 20; Gaz. vol. 144; p. 814.  
 Bachmann, Emmerich & Co., New York, N. Y. Silks and woolen piece goods. No. 74,978; Aug. 24; Gaz. vol. 145; p. 1018.



*Alphabetical list of registrants of trade-marks—Continued.*

- Bachner-Moses Co., Gloversville, N. Y. Cloth, leather, and silk gloves. No. 72,996; Mar. 9; Gaz. vol. 140; p. 502.
- Badger Brass Manufacturing Co., Kenosha, Wis. Headlights. Nos. 73,918-19; June 1; Gaz. vol. 143; p. 254.
- Badger Brass Mfg. Co., Kenosha, Wis. Certain lighting apparatus. No. 73,132; Mar. 16; Gaz. vol. 140; p. 753.
- Badger and Heslin, New Haven, Conn. Leather shoes. No. 75,759; Nov. 16; Gaz. vol. 148; p. 827.
- Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Certain chemicals. No. 76,056; Dec. 7; Gaz. vol. 149; p. 307.
- Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Dyestuffs. No. 76,243; Dec. 28; Gaz. vol. 149; p. 1116.
- Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Coal-tar coloring-matters. No. 76,244; Dec. 28; Gaz. vol. 149; p. 1116.
- Badische Anilin & Soda-Fabrik, Ludwigshafen-on-the-Rhine, Germany. Chemicals for reducing, discharging, and bleaching. No. 76,245; Dec. 28; Gaz. vol. 149; p. 1116.
- Baekeland, L. H., Yonkers, N. Y. Condensation products of phenol and formaldehyde. No. 75,266; Sept. 14; Gaz. vol. 146; p. 503.
- Baer, L. D., New York, N. Y. Fur articles. No. 74,085; June 15; Gaz. vol. 143; p. 860.
- Baer, L. D., New York, N. Y. Fur wearing-apparel and fur articles. No. 76,135; Dec. 21; Gaz. vol. 149; p. 829.
- Baird Bros. & Co., Cleveland, Ohio. Sewing-machine oil and axle-grease. No. 75,677; Nov. 2; Gaz. vol. 148; p. 275.
- Baker, G. H., New Haven, Conn. Varnish-like preservative for oil-cloth and linoleum. No. 72,266; Jan. 12; Gaz. vol. 138; p. 524.
- Baker, G. H., New Haven, Conn. Enamel coatings. No. 72,815; Feb. 23; Gaz. vol. 139; p. 986.
- Baker, O. B., Savannah, Ga. Liniment for internal and external use. No. 73,314; Apr. 13; Gaz. vol. 141; p. 561.
- Bakers' Specialty Advertising Co., Baltimore, Md. Wheat bread. No. 72,891; Mar. 2; Gaz. vol. 140; p. 250.
- Baketal, H. S., New York, N. Y. Sugar-converting animal enzyme for treatment of diabetes. No. 75,778; Nov. 16; Gaz. vol. 148; p. 827.
- Ballard & Ballard Co., Louisville, Ky. Wheat-flour. No. 73,103; Mar. 16; Gaz. vol. 140; p. 752.
- Ballard & Ballard Co., Louisville, Ky. Wheat-flour. No. 73,580; May 4; Gaz. vol. 142; p. 283.
- Ballard & Ballard Co., Louisville, Ky. Wheat-flour. Nos. 74,582-3; July 27; Gaz. vol. 144; p. 1085.
- Baltimore Shoe House, Baltimore, Md. Leather boots and shoes. No. 75,069; Aug. 31; Gaz. vol. 145; p. 1246.
- Banner Cigar Manufacturing Co., Detroit, Mich. Cigars. No. 74,359; July 6; Gaz. vol. 144; p. 272.
- Barber Asphalt Paving Company, Philadelphia, Pa. Refined asphalt. Nos. 72,740-3; Feb. 16; Gaz. vol. 139; p. 726.
- Barber Asphalt Paving Company, Philadelphia, Pa. Asphaltic paving and roofing materials. No. 74,115; June 22; Gaz. vol. 143; p. 1103.
- Barclay & Barclay, New York, N. Y. Medicated preparation. No. 73,059; Mar. 16; Gaz. vol. 140; p. 751.
- Barclay & Barclay, New York, N. Y. Soap. No. 74,877; Aug. 17; Gaz. vol. 145; p. 759.
- Bardenheuer, R., New York, N. Y. Combination underwear. No. 74,247; June 29; Gaz. vol. 143; p. 1340.
- Bardenheuer, R., New York, N. Y. One-piece pajamas. No. 74,754; Aug. 10; Gaz. vol. 145; p. 507.
- Barker, Brown & Company, Huntington, Ind. Men's and boys' leather shoes. No. 76,226; Dec. 28; Gaz. vol. 149; p. 1116.
- Barrett Manufacturing Company, New York, N. Y. Felt roofing. No. 74,116; June 22; Gaz. vol. 143; p. 1103.
- Barrett Manufacturing Company, New York, N. Y. Felt roofing. No. 75,637; Oct. 26; Gaz. vol. 147; p. 1032.
- Barrett & Son, T., New York, N. Y. Bond-paper. No. 74,718; Aug. 3; Gaz. vol. 145; p. 252.
- Barstow Stove Company, Providence, R. I. Stoves, ranges, furnaces, and steam-boilers. No. 74,517; July 20; Gaz. vol. 144; p. 813.
- Barstow Stove Company, Providence, R. I. Heating and cooking appliances and steam-boilers. No. 75,010; Aug. 24; Gaz. vol. 145; p. 1019.
- Barth Manufacturing Co., Milwaukee, Wis. Lifting-jacks. No. 73,077; Mar. 16; Gaz. vol. 140; p. 751.
- Bartholomay Brewery Company, Rochester, N. Y. Beer. Nos. 75,151-2; Sept. 7; Gaz. vol. 146; p. 252.
- Bartholomay Brewery Company, Rochester, N. Y. Beer. No. 75,293; Sept. 21; Gaz. vol. 146; p. 715.
- Bartlett, A. J., Bristol, England. Boomerang game. No. 75,465; Oct. 5; Gaz. vol. 147; p. 232.
- Baruch, S., New York, N. Y. Vaginal suppositories. No. 73,815; May 25; Gaz. vol. 142; p. 1109.
- Bash Fertilizer Company, Fort Wayne, Ind. Fertilizers. No. 74,878; Aug. 17; Gaz. vol. 145; p. 759.
- Basler, S., New York, N. Y. Preparation for exterminating rats and other obnoxious animals. No. 73,634; May 4; Gaz. vol. 142; p. 285.
- Batchelder, M. D., Peoria, Ill. Aperient water. No. 73,581; May 4; Gaz. vol. 142; p. 283.
- Batcheller Importing Co., New York, N. Y. Toilet and bath powders. No. 75,954; Nov. 30; Gaz. vol. 148; p. 1340.
- Bates, J. J., Denver, Colo. Tea for coughs, colds, and tuberculosis. No. 73,060; Mar. 16; Gaz. vol. 140; p. 751.
- Bates Manufacturing Company, West Orange, N. J. Automatic numbering-machines. No. 75,922; Nov. 30; Gaz. vol. 148; p. 1339.
- Bauer Bros. & Co., San Francisco, Cal. Certain named clothing. No. 74,996; Aug. 24; Gaz. vol. 145; p. 1018.
- Bauer & Dürrschmidt, Markneukirchen, Germany. Musical strings. No. 72,479; Jan. 26; Gaz. vol. 138; p. 961.
- Bauer & Dürrschmidt, Markneukirchen, Germany. Musical strings. No. 74,117; June 22; Gaz. vol. 143; p. 1103.
- Baughman Stationery Co., Richmond, Va. Printing and writing papers. No. 72,532; Feb. 2; Gaz. vol. 139; p. 193.
- Baum, E., Baltimore, Md. Suppositories for the nasal passages. No. 72,443; Jan. 26; Gaz. vol. 138; p. 960.
- Baum Iron Co., Omaha, Nebr. Internal-combustion engines and parts thereof. No. 75,351; Sept. 28; Gaz. vol. 146; p. 953.
- Baumgardner & Company, L. S., Toledo, Ohio. Suits, shirtings, and sheetings. No. 76,013; Dec. 7; Gaz. vol. 149; p. 306.
- Baumgardner & Company, L. S., Toledo, Ohio. Overshirts, overalls, pants, and coats. No. 76,065; Dec. 14; Gaz. vol. 149; p. 597.
- Bawo and Dotter, New York, N. Y. Clocks. No. 75,352; Sept. 28; Gaz. vol. 146; p. 953.
- Bay State Metal Wheel Co., East Templeton, Mass. Go-carts, baby-carriages, and parts thereof. No. 75,294; Sept. 21; Gaz. vol. 146; p. 715.
- Bay State Milling Co., Winona, Minn., and Boston, Mass. Wheat-flour. No. 73,920; June 1; Gaz. vol. 143; p. 254.
- Bay State Milling Company, Winona, Minn. Wheat-flour. No. 74,601; July 27; Gaz. vol. 144; p. 1085.
- Beanes, E., London, England. Beer-preserved. Nos. 73,669-70; May 11; Gaz. vol. 142; p. 563.
- Bear Manufacturing Company, Terre Haute, Ind. Antiseptic ointment. No. 75,033; Aug. 31; Gaz. vol. 145; p. 1245.
- Beardsley, O. L., Chicago, Ill. Sleds. No. 74,979; Aug. 24; Gaz. vol. 145; p. 1018.
- Beatrice Poultry & Cold Storage Co., Beatrice, Nebr. Dressed poultry. No. 75,923; Nov. 30; Gaz. vol. 148; p. 1339.
- Beaumont Manufacturing Company, Spartanburg, S. C. Twine. No. 74,602; July 27; Gaz. vol. 144; p. 1085.
- Bebber, F., Jersey City, N. J. Cigars. No. 73,773; May 18; Gaz. vol. 142; p. 852.
- Bechstein, C., London, England. Pianofortes. No. 72,761; Feb. 16; Gaz. vol. 139; p. 726.
- Beck Cereal Company, Detroit, Mich. Rolled oats. No. 76,137; Dec. 21; Gaz. vol. 149; p. 829.
- Beckel & Co., J., New York, N. Y. Corsets. No. 72,416; Jan. 26; Gaz. vol. 138; p. 959.
- Becker & Cie., Mannheim, Germany. Boiler compound. No. 73,761; May 18; Gaz. vol. 142; p. 851.
- Beckman Company, Cleveland, Ohio. Horse-blankets. Nos. 73,542-5; Apr. 27; Gaz. vol. 141; p. 1158.
- Beebe, L. A., Yonkers and New York, N. Y. Plasters, pile remedy and toilet preparations. No. 74,542; July 20; Gaz. vol. 144; p. 814.
- Beehler, W. H., Baltimore, Md. Umbrellas and parasols. No. 73,315; Apr. 13; Gaz. vol. 141; p. 561.
- Behrens & Co., E. H., New York, N. Y. Silk and silk-mixture piece goods. No. 72,350; Jan. 19; Gaz. vol. 138; p. 764.
- Behrens & Co., E. H., New York, N. Y. Silk and silk-mixture piece goods. No. 72,577; Feb. 2; Gaz. vol. 139; p. 195.
- Beiersdorf & Company, P., Hamburg, Germany. Inhalation-masks. No. 73,751; May 18; Gaz. vol. 142; p. 851.
- Belden, H. W., Waitsfield, Vt. Butter and cream. No. 73,930; June 1; Gaz. vol. 143; p. 254.
- Belknap Hardware and Manufacturing Co., Louisville, Ky. Locks, bolts, fasteners, and catches. No. 74,603; July 27; Gaz. vol. 144; p. 1085.
- Bellin, C. H., New York, N. Y. Depilatory tablets. No. 75,330; Sept. 21; Gaz. vol. 146; p. 716.
- Bemis & Call Hardware & Tool Company, Springfield, Mass. Wrenches. No. 73,931; June 1; Gaz. vol. 143; p. 254.
- Ben Strauss Company, New York, N. Y. Cotton, lisle-thread, and silk hosiery. No. 73,157; Mar. 23; Gaz. vol. 140; p. 997.
- Ben Strauss Company, New York, N. Y. Ladies' embroidered and lace-trimmed muslin underwear—to wit, corset-covers, drawers, petticoats, and chemises. No. 73,231; Apr. 6; Gaz. vol. 141; p. 281.
- Ben Strauss Company, New York, N. Y. Cotton and linen handkerchiefs. No. 73,317; Apr. 13; Gaz. vol. 141; p. 561.
- Ben Strauss Company, New York, N. Y. Embroideries. No. 74,118; June 22; Gaz. vol. 143; p. 1103.
- Ben Strauss Company, New York, N. Y. Laces. No. 74,195; June 22; Gaz. vol. 143; p. 1105.
- Benedict Paper Co., Kansas City, Mo. Bond-paper. No. 74,336; July 6; Gaz. vol. 144; p. 272.
- Benedict Paper Company, Kansas City, Mo. Bond and flat writing-paper. No. 73,932; June 1; Gaz. vol. 143; p. 254.
- Benger Söhne, W., Stuttgart, Germany. Woolen knit garments. No. 74,621; July 27; Gaz. vol. 144; p. 1086.
- Benger Söhne, W., Stuttgart, Germany. Certain clothing. Nos. 75,243-5; Sept. 14; Gaz. vol. 146; pp. 502-3.
- Benjamin & Johnes, Newark, N. J. Corsets, corset-covers, bust-forms, and hip-confiners. No. 74,898; Aug. 17; Gaz. vol. 145; p. 760.
- Benjamin & Johnes, Newark, N. J. Corsets, brassières, bust-confiners, and hip-confiners. No. 75,424; Oct. 5; Gaz. vol. 147; p. 231.
- Bennett, Sloan & Co., New York, N. Y. Blended coffee. No. 72,213; Jan. 12; Gaz. vol. 138; p. 523.
- Bennett, Sloan & Co., New York, N. Y. Tea. No. 75,034; Aug. 31; Gaz. vol. 145; p. 1245.
- Benoit, L., North Yakima, Wash. Remedy for rheumatism. No. 73,316; Apr. 13; Gaz. vol. 141; p. 561.
- Bent Novelty Co., New York, N. Y. Puzzles. No. 72,351; Jan. 19; Gaz. vol. 138; p. 764.
- Berg-Jæger, H. H., Christiania, Norway. Apparatus for improving the phonetic effect in microphones. No. 73,038; Mar. 9; Gaz. vol. 140; p. 503.
- Bergeron, O., North Yakima, Wash. Furniture-polish. No. 75,270; Sept. 21; Gaz. vol. 146; p. 715.
- Bergey, B. S., Reading, Pa. Antiseptic powders. No. 72,444; Jan. 26; Gaz. vol. 138; p. 960.
- Berghoff Brewing Association, Fort Wayne, Ind. Beer. No. 74,360; July 6; Gaz. vol. 144; p. 272.
- Berghoff Brewing Association, Fort Wayne, Ind. Beer. No. 76,102; Dec. 14; Gaz. vol. 149; p. 598.



*Alphabetical list of registrants of trade-marks—Continued.*

- Bering-Cortes Hardware Co., Houston, Tex. Cooking and heating stoves. Nos. 73,408-9; Apr. 20; Gaz. vol. 141; p. 861.  
 Bering-Cortes Hardware Co., Houston, Tex. Cooking and heating stoves. No. 74,008; June 8; Gaz. vol. 143; p. 558.  
 Berner, H. C., Boston, Mass. Preparation for removing hair. No. 75,070; Aug. 31; Gaz. vol. 145; p. 1246.  
 Bernstein, S., New York, N. Y. Ironing-wax. No. 74,403; July 13; Gaz. vol. 144; p. 557.  
 Berriman Bros., New York, N. Y. Cigars. No. 75,295; Sept. 21; Gaz. vol. 146; p. 715.  
 Best Bros. Keene's Cement Co., Cleveland, Ohio. Cements used as a substitute for plaster. No. 73,158; Mar. 23; Gaz. vol. 140; p. 997.  
 Best, R., New York, N. Y. Lead-pencils. No. 74,997; Aug. 24; Gaz. vol. 145; p. 1018.  
 Bevin Brothers Manufacturing Company, East Hampton, Conn. Bells, gongs, and chimes. No. 75,466; Oct. 5; Gaz. vol. 147; p. 232.  
 Beyer, R., Charlottenburg, Germany. Instruments of the violin type and parts of same. No. 73,697; May 11; Gaz. vol. 142; p. 564.  
 Bezanson & Co., Dr. C., Guthrie, Okla. Remedy for rheumatism. No. 75,425; Oct. 5; Gaz. vol. 147; p. 231.  
 Bickmore Gall Cure Co., Oldtown, Me. Healing-salve for animals. No. 72,599; Feb. 9; Gaz. vol. 139; p. 457.  
 Bieber B. H., Kansas City, Mo. Remedy for constipation, biliousness, sick-headache, and liver troubles. No. 75,426; Oct. 5; Gaz. vol. 147; p. 231.  
 Biechele, J., Canton, Ohio. Soap. No. 76,040; Dec. 7; Gaz. vol. 149; p. 306.  
 Bigbie Bros. & Co., Lynchburg, Va. Blended whisky. No. 74,622; July 27; Gaz. vol. 144; p. 1086.  
 Bingham Company, Binghamton, N. Y. Photographic apparatus and supplies. No. 74,268; June 29; Gaz. vol. 143; p. 1340.  
 Binney & Smith Company, New York, N. Y. Crayons and lead and slate pencils. No. 74,009; June 8; Gaz. vol. 143; p. 558.  
 Binney & Smith Company, New York, N. Y. Pigment. No. 75,532; Oct. 19; Gaz. vol. 147; p. 767.  
 Bird & Co., J. A. & W., Boston, Mass. Glues, pastes, and sizing. No. 73,122; Mar. 16; Gaz. vol. 140; p. 752.  
 Bird & Co., J. A. & W., Boston, Mass. Roofing-felt and roofing-paper. No. 73,611; May 4; Gaz. vol. 142; p. 284.  
 Bird & Co., J. A. & W., Boston, Mass. Roofing-felt. No. 73,612; May 4; Gaz. vol. 142; p. 284.  
 Birnie Paper Company, Springfield, Mass. Paper, envelopes, and papeteries. Nos. 74,170-1; June 22; Gaz. vol. 143; p. 1104.  
 Bischoff, E., New York, N. Y. Antiseptic salves. No. 73,318; Apr. 13; Gaz. vol. 141; p. 561.  
 Bischoff, E., New York, N. Y. Alkaloidal veterinary solutions. No. 74,543; July 20; Gaz. vol. 144; p. 814.  
 Bischoff, E., New York, N. Y. Remedies for whooping-cough. No. 75,353; Sept. 28; Gaz. vol. 146; p. 953.  
 Bishop and Company, Los Angeles, Cal. Chocolates. No. 74,681; Aug. 3; Gaz. vol. 145; p. 251.  
 Bissell Carpet Sweeper Co., Grand Rapids, Mich. Carpet-sweepers. No. 72,762; Feb. 16; Gaz. vol. 139; p. 726.  
 Bissell Carpet Sweeper Co., Grand Rapids, Mich. Carpet-sweepers. No. 73,421; Apr. 20; Gaz. vol. 141; p. 861.  
 Bjur Bros. Co., New York, N. Y. Pianos. Nos. 75,296-8; Sept. 21; Gaz. vol. 146; p. 715.  
 Bjur Bros. Co., New York, N. Y. Pianos. No. 75,354; Sept. 28; Gaz. vol. 146; p. 953.  
 Black Band Coal and Coke Company, Charleston, W. Va. Coal and coke. No. 74,430; July 13; Gaz. vol. 144; p. 557.  
 Blackburn-Browne Company, Memphis, Tenn. Creamery-butter. No. 74,633; July 27; Gaz. vol. 144; p. 1086.  
 Blackburn, C. W., Petaluma, Cal. Hair-dye. No. 75,837; Nov. 23; Gaz. vol. 148; p. 1081.  
 Blackburn Products Company, Dayton, Ohio. Cathartic pills. No. 72,445; Jan. 26; Gaz. vol. 138; p. 960.  
 Blackmar, F. H., Chicago, Ill. Certain chemical compound. No. 75,299; Sept. 21; Gaz. vol. 146; p. 715.  
 Blackstock, E., Jacksonburg, W. Va. Preparation for the treatment of the hair and scalp. No. 72,701; Feb. 16; Gaz. vol. 139; p. 725.  
 Blackwell-Wielandy Book and Stationery Company, St. Louis, Mo. Certain paper and stationery. No. 75,427; Oct. 5; Gaz. vol. 147; p. 231.  
 Blake, C. C., Boston, Mass. Insulated staples. No. 75,355; Sept. 28; Gaz. vol. 146; p. 953.  
 Blakeley, H. F., Bridgeport, Conn. Detergent washing compound. No. 72,240; Jan. 12; Gaz. vol. 138; p. 523.  
 Blanchard, F. E., Palacios, Tex. Remedy for piles. No. 76,246; Dec. 28; Gaz. vol. 149; p. 1116.  
 Blanke & Hauk Supply Company, St. Louis, Mo. Ice-cream powder. No. 74,961; Aug. 24; Gaz. vol. 145; p. 1017.  
 Blanton Milling Company, Indianapolis, Ind. Wheat-flour. No. 75,182; Sept. 14; Gaz. vol. 146; p. 501.  
 Blackower, M., San Francisco, Cal. Cigars. No. 72,956; Mar. 2; Gaz. vol. 140; p. 252.  
 Bleistiftfabrik vormals Johann Faber Actien-Gesellschaft, Nuremberg, Germany. Certain pencils. No. 72,352; Jan. 19; Gaz. vol. 138; p. 764.  
 Blighon, F. H., San Francisco, Cal. Blended coffee. No. 75,498; Oct. 12; Gaz. vol. 147; p. 513.  
 Blinder, A., New York, N. Y. Cigars, cigarettes, and cheroots. No. 74,196; June 22; Gaz. vol. 143; p. 1105.  
 Bliss Syrup Refining Co., Kansas City, Mo. Sorghum, molasses, and syrup. No. 73,172; Mar. 23; Gaz. vol. 140; p. 997.  
 Bliven & Carrington, Inc., New York, N. Y. Lubricating oils and greases. No. 75,356; Sept. 28; Gaz. vol. 146; p. 953.  
 Block Brothers Clothing Company, St. Joseph, Mo. Overcoats, coats, vests, and trousers. No. 73,410; Apr. 20; Gaz. vol. 141; p. 861.  
 Block Co., F. E., Atlanta, Ga. Certain foods. No. 74,755; Aug. 10; Gaz. vol. 145; p. 507.  
 Block Light Co., Brooklyn, N. Y. Incandescent gas mantles, burners, lamps, and parts thereof. No. 74,218; June 29; Gaz. vol. 143; p. 1339.  
 Block Light Company, Brooklyn, N. Y. Incandescent gas-mantles. No. 72,786; Feb. 23; Gaz. vol. 139; p. 985.  
 Block Light Company, New York, N. Y. Incandescent gas-mantles. No. 73,793; May 18; Gaz. vol. 142; p. 852.  
 Block Light Company, New York and Brooklyn, N. Y. Incandescent gas-mantles. No. 75,924; Nov. 30; Gaz. vol. 148; p. 1339.  
 Block, S., Chicago, Ill. Pianos. No. 75,357; Sept. 28; Gaz. vol. 146; p. 953.  
 Blome Company, R. S., Chicago, Ill., and New York, N. Y. Concrete pavements. No. 72,860; Mar. 2; Gaz. vol. 140; p. 250.  
 Bloomer, R. E., Keithsburg, Ill. Oil-cans. No. 73,816; May 25; Gaz. vol. 142; p. 1109.  
 Blue Ridge Enamelled Brick Co., Newark, N. J. Brick. No. 76,136; Dec. 21; Gaz. vol. 149; p. 829.  
 Blum, S., New Orleans, La. Mezzani and spaghetti. No. 72,787; Feb. 23; Gaz. vol. 139; p. 985.  
 Blum Shoe Mfg. Co., Danville, N. Y. Boots, shoes, and slippers. No. 73,078; Mar. 16; Gaz. vol. 140; p. 751.  
 Blumenstein, W. H., Pottsville, Pa. Blasting-powder. No. 76,014; Dec. 7; Gaz. vol. 149; p. 306.  
 Blumenthal & Company, F., New York, N. Y. Leather. No. 73,887; June 1; Gaz. vol. 143; p. 253.  
 Boardman & Gray, Albany, N. Y. Pianos. No. 75,913; Nov. 23; Gaz. vol. 148; p. 1083.  
 Boehringer & Reuss, Stuttgart-Cannstatt, Germany. Remedy for rheumatism and gout. No. 75,300; Sept. 21; Gaz. vol. 146; p. 916.  
 Boettiger, L. A., New York, N. Y. Pacifiers. No. 75,688; Nov. 2; Gaz. vol. 148; p. 276.  
 Boex-Holman Co., Fond du Lac, Wis. Chocolates and bonbons. No. 75,153; Sept. 7; Gaz. vol. 146; p. 252.  
 Bombay Vapor Company, Jacksonville, Fla. Insecticide, disinfectant, and deodorizer. No. 72,514; Feb. 2; Gaz. vol. 139; p. 193.  
 Bongartz, F. A., Jersey City, N. J. Medicines. No. 75,596; Oct. 26; Gaz. vol. 147; p. 1031.  
 Bonnie Bros., Louisville, Ky. Straight rye whisky. No. 72,649; Feb. 9; Gaz. vol. 139; p. 458.  
 Borden's Condensed Milk Co., New York, N. Y. Condensed milk. No. 72,214; Jan. 12; Gaz. vol. 138; p. 523.  
 Boston Baking Company, Washington, D. C. Bread. No. 74,038; June 15; Gaz. vol. 143; p. 859.  
 Boston Insulated Wire & Cable Company, Boston, Mass. Insulated wire and wire cables. No. 75,467; Oct. 5; Gaz. vol. 147; p. 232.  
 Bosworth-Staley Company, Chicago, Ill. Copy-multiplying machines. No. 75,712; Nov. 9; Gaz. vol. 148; p. 565.  
 Botany Worsted Mills, New York, N. Y. Woolen and worsted piece goods. No. 75,638; Oct. 26; Gaz. vol. 147; p. 1032.  
 Bouvier Specialty Co. Inc., Louisville, Ky. Non-alcoholic ginger beverage. No. 74,795; Aug. 10; Gaz. vol. 145; p. 508.  
 Bowesfield Steel Co., Ltd., Stockton-on-Tees, England. Black and galvanized steel sheets. No. 75,524; Oct. 12; Gaz. vol. 147; p. 513.  
 Bowesfield Steel Co., Ltd., Stockton-on-Tees, England. Black and galvanized steel sheets. Nos. 75,553-4; Oct. 19; Gaz. vol. 147; p. 767.  
 Bowie, C. P., Berkeley, Cal. Proprietary medicine. No. 75,955; Nov. 30; Gaz. vol. 148; p. 1340.  
 Bowles, J. W., Normal, Ill. Remedies for certain diseases. No. 73,288; Apr. 6; Gaz. vol. 141; p. 282.  
 Boye Needle Company, Chicago, Ill. Sewing-machine needles and shuttles. No. 72,417; Jan. 26; Gaz. vol. 138; p. 959.  
 Boyer & Co., Philadelphia, Pa. Shoe-blackening. No. 74,796; Aug. 10; Gaz. vol. 145; p. 508.  
 Boykin Manufacturing Company, Cheraw, S. C. Oil extracted from rich lightwood (pine) and used as a wood-reserving oil. No. 75,555; Oct. 19; Gaz. vol. 147; p. 767.  
 Boys' Overall Mfg. Co., Kansas City, Mo. Certain clothing. No. 74,261; June 29; Gaz. vol. 143; p. 1340.  
 Bozeman Milling Company, Bozeman, Mont. Wheat-flour. No. 75,499; Oct. 12; Gaz. vol. 147; p. 513.  
 Brackett & Co., L. M., Rochester, Ind. Canned vegetables. No. 73,434; Apr. 20; Gaz. vol. 141; p. 862.  
 Brackett, Shaw & Lunt Co., Somersworth, N. H., and Boston, Mass. Gasoline and hot-air engines, windmills, pumps, &c. No. 74,918; Aug. 17; Gaz. vol. 145; p. 761.  
 Bradas & Gheens, Louisville, Ky. Candy. No. 73,104; Mar. 16; Gaz. vol. 140; p. 752.  
 Bradley, A. B., San Francisco, Cal. Remedy for constipation. No. 74,655; July 27; Gaz. vol. 144; p. 1087.  
 Bradley & Metcalf Co., Milwaukee, Wis. Leather boots and shoes. No. 73,319; Apr. 13; Gaz. vol. 141; p. 561.  
 Bragg, S. I., Quincy, Ill. Candies. No. 74,119; June 22; Gaz. vol. 143; p. 1103.  
 Brandau, A., Detroit, Mich. Shoes manufactured of leather and asbestos. No. 74,756; Aug. 10; Gaz. vol. 145; p. 507.  
 Brandon & Brothers, I., New York, N. Y. Plug-tobacco. No. 74,337; July 6; Gaz. vol. 144; p. 272.  
 Brannen, E. B., New York, N. Y. Cleaning and polishing compound. No. 75,525; Oct. 12; Gaz. vol. 147; p. 513.  
 Bransford, C. W., Owensboro, Ky. Wheat-flour. No. 75,200; Sept. 14; Gaz. vol. 146; p. 501.  
 Braumuller Piano Company, New York, N. Y. Pianos. No. 72,141; Jan. 5; Gaz. vol. 138; p. 252.  
 Braun & Bloem Ges. mit beschränkter Haftung, Dusseldorf, Germany. Cartridges. No. 73,251; Apr. 6; Gaz. vol. 141; p. 281.  
 Breen & Kennedy, Chicago, Ill. Straight Bourbon and rye whisky. No. 75,652; Oct. 26; Gaz. vol. 147; p. 1032.  
 Breen, P. J., Liverpool, England. Tobacco-pipes and parts thereof. No. 74,879; Aug. 17; Gaz. vol. 145; p. 759.  
 Breitung, A., Chicago, Ill. Cigars. No. 73,878; May 25; Gaz. vol. 142; p. 1110.



*Alphabetical list of registrants of trade-marks—Continued.*

- Breitung, A., Chicago, Ill. Cigars. No. 75,689; Nov. 2; Gaz. vol. 148; p. 276.  
 Breitung, A., Chicago, Ill. Cigars. No. 75,956; Nov. 30; Gaz. vol. 148; p. 1340.  
 Brewers' Special Machinery Co., New York, N. Y. Filters and filter mass. No. 73,212; Mar. 30; Gaz. vol. 140; p. 1203.  
 Brey, W. F., Philadelphia, Pa. Wheat-flour. No. 75,925; Nov. 30; Gaz. vol. 148; p. 1339.  
 Bridgeport Chain Company, Bridgeport, Conn. Sheet-metal chain. No. 72,613; Feb. 9; Gaz. vol. 139; p. 457.  
 Bridgeport Chain Company, Bridgeport, Conn. Wire chain. No. 73,186; Mar. 30; Gaz. vol. 140; p. 1203.  
 Bridgeport Chain Company, Bridgeport, Conn. Wire chain. No. 73,232; Apr. 6; Gaz. vol. 141; p. 281.  
 Bridgeport Webbing Company, Inc., Bridgeport, Conn. Belts for personal wear. No. 75,760; Nov. 16; Gaz. vol. 148; p. 827.  
 Briggs, W. A., Sacramento, Cal. Tooth-washes, tooth-paste, and tooth-powder. No. 74,309; July 6; Gaz. vol. 144; p. 271.  
 Bristol Patent Leather Company, Bristol and Philadelphia, Pa. Patent or enameled leather. Nos. 75,035-6; Aug. 31; Gaz. vol. 145; p. 1245.  
 Brittain & Company, Marshalltown, Iowa. Hams, bacon, sausage, and lard. No. 74,039; June 15; Gaz. vol. 143; p. 859.  
 Brittain's Limited, Hanley, England. Writing-paper and envelopes. No. 74,010; June 8; Gaz. vol. 143; p. 558.  
 Britton, C. J., San Diego, Cal. Ointment for external application. No. 72,957; Mar. 9; Gaz. vol. 140; p. 501.  
 Brode, F. W., Memphis, Tenn. Cotton-seed meal. No. 75,690; Nov. 2; Gaz. vol. 148; p. 276.  
 Brode & Son, A., New York, N. Y. Suspenders and belts. No. 75,985; Dec. 7; Gaz. vol. 149; p. 305.  
 Bromund, E. A., New York, N. Y. Ironing-wax pads. No. 76,138; Dec. 21; Gaz. vol. 149; p. 829.  
 Brooke, J. E., Antioch, Ill. Pills, tablets, and liquid compounds. No. 76,103; Dec. 14; Gaz. vol. 149; p. 598.  
 Brown, A. C., New York, N. Y. Toilet and purricle soaps. No. 75,795; Nov. 16; Gaz. vol. 148; p. 828.  
 Brown & Beck, Denver, Colo. Motor-cycles, bicycles, and package-delivery cycles. No. 75,653; Oct. 26; Gaz. vol. 147; p. 1032.  
 Brown & Co., C. E., Springfield, Mass. Canned vegetables. No. 72,744; Feb. 16; Gaz. vol. 139; p. 726.  
 Brown & Co., C. E., Springfield, Mass. Certain foods. No. 73,252; Apr. 6; Gaz. vol. 141; p. 281.  
 Brown & Co., C. E., Springfield, Mass. Certain foods. No. 75,926; Nov. 30; Gaz. vol. 148; p. 1339.  
 Brown, D., Birmingham, Ala. Tonic beverage. No. 75,500; Oct. 12; Gaz. vol. 147; p. 513.  
 Brown, J. A., Washington, Kans. Toilet cream. No. 74,086; June 15; Gaz. vol. 143; p. 860.  
 Brown, L. S., Boston, Mass. Medicine to counteract the effect of liquor on the human system. No. 74,846; Aug. 10; Gaz. vol. 145; p. 509.  
 Brown Shoe Company, St. Louis, Mo. Shoes. No. 75,986; Dec. 7; Gaz. vol. 149; p. 305.  
 Brown Son & Co., W. H., New York, N. Y. Piece goods made of cotton, wool, and mixed cotton and wool. No. 72,142; Jan. 5; Gaz. vol. 138; p. 252.  
 Brown, W. W., Groesbeck, Tex. Antiseptic compound in tablet form. No. 72,185; Jan. 5; Gaz. vol. 138; p. 253.  
 Brunnell & Field Company, Providence, R. I. Coffee and tea. No. 72,215; Jan. 12; Gaz. vol. 138; p. 523.  
 Brunner Baking Company, Buffalo, N. Y. Bread. No. 75,737; Nov. 9; Gaz. vol. 148; p. 565.  
 Brunson, L. A., Los Angeles, Cal. Knit outing garments. No. 72,861; Mar. 2; Gaz. vol. 140; p. 250.  
 Brush, H. W., Livingston and New York, N. Y. Certain textiles. No. 73,253; Apr. 6; Gaz. vol. 141; p. 281.  
 Bryant Electric Company, Bridgeport, Conn. Electric-incandescent-lamp sockets. No. 72,862; Mar. 2; Gaz. vol. 140; p. 250.  
 Bryce Baking Company, Indianapolis, Ind. Bread. No. 74,757; Aug. 10; Gaz. vol. 145; p. 507.  
 Buckeye Extract Co., Olympia, Wash. Flavoring extracts and spices. No. 72,446; Jan. 26; Gaz. vol. 138; p. 960.  
 Buckeye Stereopticon Co., Cleveland, Ohio. Stereopticons, projectors, magic lanterns, &c. No. 76,086; Dec. 14; Gaz. vol. 149; p. 597.  
 Buckner, H. W., New Orleans, La. Ready-mixed paints. No. 73,569; May 4; Gaz. vol. 142; p. 283.  
 Buegeleisen, S., New York, N. Y. Violins, bows, strings, pegs, and parts of violins. No. 73,233; Apr. 6; Gaz. vol. 141; p. 281.  
 Buegeleisen, S., New York, N. Y. Certain musical instruments. No. 74,758; Aug. 10; Gaz. vol. 145; p. 507.  
 Buffalo Bolt Company, North Tonawanda, N. Y. Bolts and screws. No. 73,356; Apr. 13; Gaz. vol. 141; p. 562.  
 Buffalo Cereal Co., Buffalo, N. Y. Certain foods. No. 75,796; Nov. 16; Gaz. vol. 148; p. 828.  
 Buffalo Co-operative Stove Company, Buffalo, N. Y. Stoves, ranges, and furnaces. No. 75,331; Sept. 21; Gaz. vol. 146; p. 716.  
 Buffum Tool Co., Louisiana, Mo. Certain named tools and machines. No. 75,037; Aug. 31; Gaz. vol. 145; p. 1245.  
 Bullard Thread Company, Holyoke, Mass. Thread for machine and hand sewing. Nos. 74,431-2; July 13; Gaz. vol. 144; p. 558.  
 Buoncristiano, C. G., New York, N. Y. Popcorn and confectionery made of popcorn. No. 72,578; Feb. 2; Gaz. vol. 139; p. 195.  
 Burch, Bailey & Co., New York, N. Y. Certain textile fabrics. No. 72,143; Jan. 5; Gaz. vol. 138; p. 252.  
 Burch, Bailey & Co., New York, N. Y. Silk, linen, and cotton piece goods. No. 74,584; July 27; Gaz. vol. 144; p. 1085.  
 Burch, Bailey & Co., New York, N. Y. Silk, linen, and cotton dress goods. No. 74,759; Aug. 10; Gaz. vol. 145; p. 507.  
 Burckhardt & Company, Cincinnati, Ohio. Soap. No. 75,898; Nov. 23; Gaz. vol. 148; p. 1082.  
 Burd Knitting Mills Co., Philadelphia, Pa. Hosiery. No. 74,682; Aug. 3; Gaz. vol. 145; p. 251.  
 Bürgerliches Bräuhaus in Pilsen, Pilsen, Austria-Hungary. Pilsen beer. No. 75,301; Sept. 21; Gaz. vol. 146; p. 716.  
 Burgmann, F., Dresden-Laubegast, Germany. Rubber, leather, asbestos, and metal packing. No. 73,057; Mar. 9; Gaz. vol. 140; p. 504.  
 Burgmann, F., Dresden-Laubegast, Germany. Fibrous packings. No. 73,774; May 18; Gaz. vol. 142; p. 852.  
 Burk, L., Philadelphia, Pa. Bacon. No. 75,201; Sept. 14; Gaz. vol. 146; p. 501.  
 Burk, L., Philadelphia, Pa. Bacon. No. 75,691; Nov. 2; Gaz. vol. 148; p. 276.  
 Burns and Reed, New York, N. Y. Blended coffee. No. 73,582; May 4; Gaz. vol. 142; p. 283.  
 Burns and Reed, New York, N. Y. Blended coffee. No. 76,202; Dec. 28; Gaz. vol. 149; p. 1115.  
 Burns, Silver & Co., Bridgeport, Conn. Furniture-casters. No. 74,433; July 13; Gaz. vol. 144; p. 558.  
 Burr & Co., D., Chicago, Ill. Tar soap. No. 73,775; May 18; Gaz. vol. 142; p. 852.  
 Burrell & Co., D. H., Little Falls, N. Y. Milking-machines and parts thereof. No. 73,357; Apr. 13; Gaz. vol. 141; p. 562.  
 Bursley & Company, G. E., Fort Wayne, Ind. Blended coffee. No. 75,183; Sept. 14; Gaz. vol. 146; p. 501.  
 Busch, W., Washington, D. C. Salve for wounds. No. 72,447; Jan. 26; Gaz. vol. 138; p. 960.  
 Bush & Gerts Piano Co., Chicago, Ill. Pianos. No. 72,353; Jan. 19; Gaz. vol. 138; p. 764.  
 Busk & Daniels, New York, N. Y. Raw wool. No. 74,850; Aug. 17; Gaz. vol. 145; p. 769.  
 Butterfield & Co., F., New York, N. Y. Cotton piece goods. No. 75,678; Nov. 2; Gaz. vol. 148; p. 275.  
 Butterworth & Bro., W. H., Trenton, N. J. Threshing machinery. No. 73,358; Apr. 13; Gaz. vol. 141; p. 562.  
 Butz, S., Easton, Pa. Dry-powder fire-extinguishing compound. No. 75,957; Nov. 30; Gaz. vol. 145; p. 1340.  
 Byrd, C. P. (See Lewis, A. D., assignor.)  
 Byrne & Hammer Dry Goods Co., Omaha, Nebr. Work, negligée, and dress shirts. No. 72,126; Jan. 5; Gaz. vol. 138; p. 252.  
 Byrnes, J. A., San Francisco, Cal. Liquid cleaner for clothes. No. 74,851; Aug. 17; Gaz. vol. 145; p. 759.  
 C. Robin Collas Company, Limited, Halifax, Nova Scotia, Canada. Fish. Nos. 74,310-11; July 6; Gaz. vol. 144; p. 271.  
 C. A. Woolsey Paint & Color Company, Jersey City, N. J. Copper paint. No. 75,302; Sept. 21; Gaz. vol. 146; p. 716.  
 C. B. Woodworth Sons Co., Rochester, N. Y. Toilet preparations. No. 75,597; Oct. 26; Gaz. vol. 147; p. 1031.  
 C. D. Morse & Co., San Francisco, Cal. Vegetable and flower seeds. No. 76,015; Dec. 7; Gaz. vol. 149; p. 306.  
 C. D. Boss & Son Inc., New London, Conn. Biscuit. No. 74,760; Aug. 10; Gaz. vol. 145; p. 507.  
 C. D. Smith Drug Co., St. Joseph, Mo. Certain chemical preparations. No. 74,404; July 13; Gaz. vol. 144; p. 557.  
 C. F. Blanke Tea & Coffee Co., St. Louis, Mo. Tea. No. 72,788; Feb. 23; Gaz. vol. 139; p. 985.  
 C. F. Blanke Tea & Coffee Company, St. Louis, Mo. Coffee. No. 74,434; July 13; Gaz. vol. 144; p. 558.  
 C. H. Wheeler Manufacturing Co., Philadelphia, Pa. Rotary pumps. No. 73,933; June 1; Gaz. vol. 143; p. 254.  
 C. J. Michel Brewing Co., La Crosse, Wis. Beer. No. 72,307; Jan. 19; Gaz. vol. 138; p. 763.  
 C. J. Root Company, Bristol, Conn. Counting-machines. No. 74,899; Aug. 17; Gaz. vol. 145; p. 760.  
 C. L. Cotton Perfume & Extract Co., Earlville, N. Y. Flavoring extracts, vanilla and lemon flavoring compounds. No. 72,186; Jan. 5; Gaz. vol. 138; p. 254.  
 C. M. Maderwell & Company, Chicago, Ill. Coal. No. 73,274; Apr. 6; Gaz. vol. 141; p. 282.  
 C. P. Henry Novelty Company, Providence, R. I. Curtain-rods, parts and ornaments therefor. No. 76,016; Dec. 7; Gaz. vol. 149; p. 306.  
 C. T. Ham Manufacturing Company, Rochester, N. Y. Glass globes and chimneys for lamps and lanterns. No. 74,219; June 29; Gaz. vol. 143; p. 1339.  
 C. T. Ham Manufacturing Company, Rochester, N. Y. Oil-burning lanterns. No. 75,332; Sept. 21; Gaz. vol. 146; p. 716.  
 C. W. Snow & Co., Syracuse, N. Y. Floor-wax. No. 74,087; June 15; Gaz. vol. 143; p. 860.  
 Cady Paper Company, Chicago, Ill. Bond-paper. No. 72,533; Feb. 2; Gaz. vol. 139; p. 193.  
 Cahn, H. J., Baltimore, Md. Coats, vests, and pants. No. 75,428; Oct. 5; Gaz. vol. 147; p. 231.  
 Caldwell, W. H., Tuckahoe, N. J. Liniment and ointment. No. 76,017; Dec. 7; Gaz. vol. 149; p. 306.  
 California Artistic Metal & Wire Co., San Francisco, Cal. Ornamental building metal. No. 73,204; Mar. 30; Gaz. vol. 140; p. 1203.  
 California Baking Company, San Francisco, Cal. Breads. No. 73,752; May 18; Gaz. vol. 142; p. 851.  
 California Fruit Canners Association, San Francisco, Cal. Canned fruits and canned vegetables. No. 73,506; Apr. 27; Gaz. vol. 141; p. 1157.  
 California Fruit Canners Association, San Francisco, Cal. Canned fruits. No. 73,507; Apr. 27; Gaz. vol. 141; p. 1157.  
 California Fruit Canners Association, San Francisco, Cal. Canned fruits and canned vegetables and dried fruits. No. 73,508; Apr. 27; Gaz. vol. 141; p. 1157.  
 California Fruit Canners Association, San Francisco, Cal. Canned vegetables. No. 73,509; Apr. 27; Gaz. vol. 141; p. 1157.  
 California Fruit Canners Association, San Francisco, Cal. Canned fruits. No. 73,583; May 25; Gaz. vol. 142; p. 1110.  
 California Fruit Canners Association, San Francisco, Cal. Certain foods. No. 75,958; Nov. 30; Gaz. vol. 148; p. 1340.



*Alphabetical list of registrants of trade-marks—Continued.*

- California Fruit Cannery Association, San Francisco, Cal. Canned fruit. No. 76,174; Dec. 21; Gaz. vol. 149; p. 830.  
 California Fruit Growers Exchange, Los Angeles, Cal. Oranges. No. 72,087; Jan. 5; Gaz. vol. 138; p. 251.  
 California Glove Company, San Francisco, Cal. Leather gloves. No. 73,488; Apr. 27; Gaz. vol. 141; p. 1157.  
 California Mineral Water Company, San Diego, Cal., and Philadelphia, Pa. Natural medicinal mineral water. No. 73,215; Mar. 30; Gaz. vol. 140; p. 1204.  
 California Plumbing Supply Co., San Francisco, Cal. Certain plumbing supplies. No. 74,496; July 20; Gaz. vol. 144; p. 813.  
 California Vineyards and Improvement Company, (Incorporated), North Cucamonga, Cal. Unfermented grape-juice. No. 74,919; Aug. 17; Gaz. vol. 145; p. 761.  
 Calixto, Lopez & Co., Jersey City, N. J. Cigars, cigarettes, and smoking-tobacco. No. 72,418; Jan. 26; Gaz. vol. 138; p. 959.  
 Calixto Lopez & Co., Jersey City, N. J. Cigars, cigarettes, and tobacco. No. 72,614; Feb. 9; Gaz. vol. 139; p. 457.  
 Calixto Lopez & Co., Jersey City, N. J. Cigars, cigarettes, and tobacco. Nos. 72,919-21; Mar. 2; Gaz. vol. 140; p. 251.  
 Calixto Lopez & Co., Jersey City, N. J. Cigars, cigarettes, and smoking-tobacco. No. 74,061; June 15; Gaz. vol. 143; p. 859.  
 Calwa Products Co., San Francisco, Cal. Grape-juice. No. 73,359; Apr. 13; Gaz. vol. 141; p. 562.  
 Cam Caramel Company, Lexington, Ky. Caramel extract. No. 73,435; Apr. 20; Gaz. vol. 141; p. 862.  
 Cammell Laird & Co. Limited, Sheffield, England. Steel. No. 73,879; May 25; Gaz. vol. 142; p. 1110.  
 Cammell Laird & Co. Limited, Sheffield, England. Drills, cutters, machine-knives, &c. No. 74,062; June 15; Gaz. vol. 143; p. 859.  
 Camp Chocolate Co., McKeesport, Pa. Candies and chocolate. No. 73,510; Apr. 27; Gaz. vol. 141; p. 1157.  
 Campbell Electric Company, Lynn, Mass. Certain electrical apparatus. No. 73,254; Apr. 6; Gaz. vol. 141; p. 281.  
 Campbell & Woods Company, Pittsburg, Pa. Teas. No. 76,087; Dec. 14; Gaz. vol. 149; p. 597.  
 Canadian Bronze Powder Works, R. E. Thorne and Company, Montreal, Quebec, Canada. Printers' inks. No. 72,600; Feb. 9; Gaz. vol. 139; p. 457.  
 Canadian Chic Company, Peterborough, Ontario, Canada. Chewing-gums. No. 75,738; Nov. 9; Gaz. vol. 148; p. 565.  
 Canary, N., Chicago, Ill. Salve. No. 75,761; Nov. 16; Gaz. vol. 148; p. 827.  
 Canocs Manufacturing Company, Philadelphia, Pa. Metal-polishes. No. 72,981; Mar. 9; Gaz. vol. 140; p. 501.  
 Cannizzaro & Co., P., New York, N. Y. Cigars. No. 74,011; June 8; Gaz. vol. 143; p. 558.  
 Canton Culvert Company, Canton, Ohio. Sheet metal. No. 74,120; June 22; Gaz. vol. 143; p. 1103.  
 Capital Fertilizer & Manufacturing Company, Jackson, Miss. Fertilizers for cotton-plants. No. 72,354; Jan. 19; Gaz. vol. 138; p. 764.  
 Car Heating Co., Albany, N. Y. Steam and hot-water car-heating apparatus. No. 74,441; July 13; Gaz. vol. 144; p. 558.  
 Carback, J. T., Baltimore, Md. Liquid remedy for rheumatism. No. 73,635; May 4; Gaz. vol. 142; p. 285.  
 Carborundum Company, Niagara Falls, N. Y. Abrasive materials and tools. No. 75,154; Sept. 7; Gaz. vol. 146; p. 252.  
 Cardin, G. B., Belltown, Tenn. Remedy for certain diseases. No. 75,358; Sept. 28; Gaz. vol. 146; p. 953.  
 Cardolax Company, New York, N. Y. Laxatives, antiseptic powder, &c. No. 75,739; Nov. 9; Gaz. vol. 148; p. 565.  
 Carlson, C. A., Seattle, Wash. Metal and glass polish. No. 73,173; Mar. 23; Gaz. vol. 140; p. 997.  
 Carmel Kasher Sausage Company, Chicago, Ill. Sausages, meats, and fats. No. 74,497; July 20; Gaz. vol. 144; p. 813.  
 Carmel Wine Company, New York, N. Y. Still wines. No. 75,797; Nov. 16; Gaz. vol. 148; p. 828.  
 Carmo Chemical Co., New York, N. Y. Remedy for malaria, nervous diseases, &c. No. 73,699; May 11; Gaz. vol. 142; p. 564.  
 Carpenter Company, Houston, Tex. Kidney and bladder tablets. No. 75,598; Oct. 26; Gaz. vol. 147; p. 1031.  
 Carr, C. M., Chicago, Ill. Dental instruments for the treatment of pyorrhea. No. 73,159; Mar. 23; Gaz. vol. 140; p. 997.  
 Carr Manufacturing Co., Kansas City, Mo. Rubber rings and gaskets for caps of jars. Nos. 72,789-90; Feb. 23; Gaz. vol. 139; p. 985.  
 Carreras Limited, Aldgate, London, England. Tobacco, cigars, cigarettes, and snuff. No. 76,139; Dec. 21; Gaz. vol. 149; p. 829.  
 Carreras Limited, London, England. Smoking and chewing tobacco, cigars, cigarettes, and snuff. No. 76,247; Dec. 28; Gaz. vol. 149; p. 1116.  
 Carson Pirie Scott & Co., Chicago, Ill. Hose-supporters. No. 72,745; Feb. 16; Gaz. vol. 139; p. 726.  
 Carson Pirie Scott & Co., Chicago, Ill. Ribbons. No. 72,816; Feb. 23; Gaz. vol. 139; p. 986.  
 Carson Pirie Scott & Co., Chicago, Ill. Leather and silk gloves. No. 72,997; Mar. 9; Gaz. vol. 140; p. 502.  
 Carson, Pirie, Scott & Co., Chicago, Ill. Piece goods of mixed silk and cotton. No. 73,061; Mar. 16; Gaz. vol. 140; p. 751.  
 Carson Pirie Scott & Co., Chicago, Ill. Hose-supporters. No. 73,613; May 4; Gaz. vol. 142; p. 284.  
 Carson Pirie Scott & Co., Chicago, Ill. Woven tip fabric and silk gloves. No. 74,435; July 13; Gaz. vol. 144; p. 558.  
 Carson, Pirie, Scott & Co., Chicago, Ill. Embroideries. Nos. 74,604-5; July 27; Gaz. vol. 144; p. 1085.  
 Carson, Pirie, Scott & Co., Chicago, Ill. Dress-skirts. No. 74,880; Aug. 17; Gaz. vol. 145; p. 759.  
 Carter & Churchill Co., Lebanon, N. H. Overalls, duck coats, outer shirts, &c. No. 74,881; Aug. 17; Gaz. vol. 145; p. 760.  
 Carty, C. C., Frederick, Md. Cotton-felt mattresses. No. 72,863; Mar. 2; Gaz. vol. 140; p. 250.  
 Cash, F., Raydon, Okla. Bleaching-powder. No. 72,601; Feb. 9; Gaz. vol. 139; p. 457.  
 Castner Electrolytic Alkali Company, Niagara Falls, N. Y. Bleaching agents. No. 76,018; Dec. 7; Gaz. vol. 149; p. 306.  
 Castruccio-Amestoy Co., Los Angeles, Cal. Italian olive-oil. No. 72,892; Mar. 2; Gaz. vol. 140; p. 250.  
 Cataract Refining and Manufacturing Company, Buffalo, N. Y. Cutting compound. No. 73,546; Apr. 27; Gaz. vol. 141; p. 1158.  
 Cataract Refining and Manufacturing Company, Buffalo, N. Y. Lubricating-grease and yarn-grease. No. 75,556; Oct. 19; Gaz. vol. 147; p. 767.  
 Catino, A., Boston, Mass. Salves. No. 73,465; Apr. 20; Gaz. vol. 141; p. 862.  
 Cawthon-Coleman Company, Selma, Ala. Remedy for certain diseases. No. 72,480; Jan. 26; Gaz. vol. 138; p. 961.  
 Cawthra, T. A., New York, N. Y. Magazines. No. 72,753; Feb. 16; Gaz. vol. 139; p. 726.  
 Centaur Film Co., New York, N. Y. Motion-picture films. No. 75,927; Nov. 30; Gaz. vol. 148; p. 1339.  
 Central California Canneries, San Francisco, Cal. Canned fruits. Nos. 75,928-30; Nov. 30; Gaz. vol. 148; p. 1339.  
 Central California Canneries, San Francisco, Cal. Canned fruits and vegetables. No. 75,931; Nov. 30; Gaz. vol. 148; p. 1339.  
 Central California Canneries, San Francisco, Cal. Canned fruits. Nos. 76,140-1; Dec. 21; Gaz. vol. 149; p. 829.  
 Central Consumers Company, Louisville, Ky. Beer. No. 75,798; Nov. 16; Gaz. vol. 148; p. 828.  
 Cerny, M. J., St. Louis, Mo. Hair-nets. No. 74,063; June 15; Gaz. vol. 143; p. 859.  
 Ceylana Tea Company, New York, N. Y. Blend of Ceylon and India tea. No. 73,360; Apr. 13; Gaz. vol. 141; p. 562.  
 Chaffee Manufacturing Company, Willimantic, Conn. Fish-lines. No. 76,104; Dec. 14; Gaz. vol. 149; p. 598.  
 Chalmers-Detroit Motor Co., Detroit, Mich. Automobiles. No. 72,998; Mar. 9; Gaz. vol. 140; p. 502.  
 Chance & Hunt Limited, Oldbury and Seabrook, England. Carbonate and chlorid of ammonia. No. 75,246; Sept. 14; Gaz. vol. 146; p. 503.  
 Chapin-Sacks Mfg. Co., Washington, D. C. Ice-cream. No. 75,599; Oct. 26; Gaz. vol. 147; p. 1031.  
 Chapman Valve Manufacturing Company, Springfield, Mass. Valves. No. 74,436; July 13; Gaz. vol. 144; p. 558.  
 Chapman Valve Manufacturing Company, Springfield, Mass. Valves, sluice-gates, hydrants, &c. No. 74,920; Aug. 17; Gaz. vol. 145; p. 761.  
 Charles A. Schieren Company, New York, N. Y. Belt-dressing. Nos. 72,419-20; Jan. 26; Gaz. vol. 138; p. 959.  
 Charles Ahrenfeldt & Son, New York, N. Y. French china. No. 73,422; Apr. 20; Gaz. vol. 141; p. 861.  
 Charles E. Bentley Co., New York, N. Y. Certain fancy goods. No. 76,191; Dec. 28; Gaz. vol. 149; p. 1115.  
 Charles E. Bentley Co., New York, N. Y. Floss, yarns, or threads. No. 76,192; Dec. 28; Gaz. vol. 149; p. 1115.  
 Charles Jacquin et Cie. Inc., New York, N. Y. Tom gin. No. 72,144; Jan. 5; Gaz. vol. 138; p. 252.  
 Charles Niedner's Sons Co., Malden, Mass. Linen hose. No. 74,525; July 20; Gaz. vol. 144; p. 813.  
 Charles P. Stanley Cigar Co., St. Louis, Mo. Cigars. No. 74,643; July 27; Gaz. vol. 144; p. 1086.  
 Charles R. De Bevoise Co., Newark, N. J. Combination undergarment. No. 73,320; Apr. 13; Gaz. vol. 141; p. 561.  
 Charles Zoller Co., New York, N. Y. Isinglass. No. 75,071; Aug. 31; Gaz. vol. 145; p. 1246.  
 Chas. A. Stevens & Bros., Chicago, Ill. Corsets. No. 74,361; July 6; Gaz. vol. 144; p. 272.  
 Chas. H. Moore Oil Co., Cincinnati, Ohio. Lubricating-oil. No. 75,202; Sept. 14; Gaz. vol. 146; p. 501.  
 Chas. H. Phillips Chemical Co., New York, N. Y. Preparation of magnesia. No. 75,501; Oct. 12; Gaz. vol. 147; p. 513.  
 Chas. Lentz & Sons, Philadelphia, Pa. Surgical instruments and supplies. No. 73,636; May 4; Gaz. vol. 142; p. 285.  
 Chas. Meisezahl Mfg. Co., New York, N. Y. Artificial mineral water. No. 75,429; Oct. 5; Gaz. vol. 147; p. 231.  
 Chas. P. Stanley Cigar Co., St. Louis, Mo. Cigars. No. 73,133; Mar. 16; Gaz. vol. 140; p. 753.  
 Chas. P. Stanley Cigar Co., St. Louis, Mo. Cigars. No. 73,234; Apr. 6; Gaz. vol. 141; p. 281.  
 Chas. P. Stanley Cigar Co., St. Louis, Mo. Cigars. No. 73,423; Apr. 20; Gaz. vol. 141; p. 861.  
 Chas. P. Stanley Cigar Co., St. Louis, Mo. Cigars. No. 76,265; Dec. 28; Gaz. vol. 149; p. 1117.  
 Chas. W. Bauermeister Company, Terre Haute, Ind. Coffee. No. 73,753; May 18; Gaz. vol. 142; p. 851.  
 Chattanooga Medicine Company, Chattanooga, Tenn. Remedy for liver, stomach, and bowel disorders. No. 74,940; Aug. 24; Gaz. vol. 145; p. 1017.  
 Chattanooga Paint Co., Chattanooga, Tenn. Mortar-colors. No. 75,799; Nov. 16; Gaz. vol. 148; p. 828.  
 Chavey Bros., Detroit, Mich. Orange-flavored syrup. No. 75,430; Oct. 5; Gaz. vol. 147; p. 231.  
 Chemische Fabrik Auf Actien (Vorm. E. Schering), Berlin, Germany. Hypnotics. No. 75,616; Oct. 26; Gaz. vol. 147; p. 1031.  
 Chemische Fabrik Gebr. Paternman, Friedenau, near Berlin, Germany. Foods containing malt extract and artificially-added nutritive salts. No. 74,437; July 13; Gaz. vol. 144; p. 558.



*Alphabetical list of registrants of trade-marks—Continued.*

- Chemische Fabrik Helfenberg A. G. vorm. Eugen Dieterich, Helfenberg, Germany. Laxative tablets. No. 73,187; Mar. 30; Gaz. vol. 140; p. 1203.
- Chemische Werke Hansa, Gesellschaft mit beschränkter Haftung, Hemelingen, near Bremen, Germany. Remedies for certain diseases. No. 72,322; Jan. 19; Gaz. vol. 138; p. 763.
- Cherry, P. H., Los Angeles, Cal. Remedies for certain diseases. No. 72,831; Mar. 2; Gaz. vol. 140; p. 249.
- Cheshier, J. W., Birmingham, Ala. Detergent washing fluids. No. 72,958; Mar. 9; Gaz. vol. 140; p. 501.
- Chester Product Company, Baltimore, Md. Remedy for certain diseases. No. 73,321; Apr. 13; Gaz. vol. 141; p. 561.
- Chesterman & Streeter, Philadelphia, Pa. Trusses. No. 73,911; June 1; Gaz. vol. 143; p. 253.
- Chicago Milling Company, Riverdale and Chicago, Ill. Core compound. No. 74,269; June 29; Gaz. vol. 143; p. 1340.
- Chicago Pharmacal Co., Chicago, Ill. Remedy for piles. No. 72,241; Jan. 12; Gaz. vol. 138; p. 524.
- Chicago Pharmacal Co., Chicago, Ill. Tablet used internally. No. 72,323; Jan. 19; Gaz. vol. 138; p. 763.
- Chicago Pharmacal Co., Chicago, Ill. Ointment for diseases of the eyes. No. 72,481; Jan. 26; Gaz. vol. 138; p. 961.
- Chicago Pharmacal Co., Chicago, Ill. Poultice for inflammations and rheumatism. No. 72,482; Jan. 26; Gaz. vol. 138; p. 961.
- Chicago Spring Butt Company, Chicago, Ill. Hinges. Nos. 72,395-6; Jan. 26; Gaz. vol. 138; p. 959.
- Chicago Stove Works, Chicago, Ill. Cooking and heating stoves and ranges and parts thereof. No. 73,547; Apr. 27; Gaz. vol. 141; p. 1158.
- Chicago Varnish Co., Chicago, Ill. Varnishes, primers, and ready-mixed paints. No. 75,932; Nov. 30; Gaz. vol. 148; p. 1339.
- Chichester, M. E., Brooklyn, N. Y. Medicated pads and plasters. No. 73,671; May 11; Gaz. vol. 142; p. 563.
- Chickering & Sons, Boston, Mass. Pianos. No. 73,672; May 11; Gaz. vol. 142; p. 563.
- Chiesa Hermanos, Rosario, Argentina, and New York, N. Y. Jutes. No. 76,116; Dec. 14; Gaz. vol. 149; p. 598.
- China & Japan Trading Company, Limited, New York, N. Y. Certain textiles. Nos. 76,007-8; Dec. 7; Gaz. vol. 149; p. 305.
- China & Japan Trading Company, Limited, New York, N. Y. Certain textiles. No. 76,057; Dec. 7; Gaz. vol. 149; p. 305.
- Chris. Lipps Company, Baltimore, Md. Soap. No. 74,262; June 29; Gaz. vol. 143; p. 1340.
- Christian Moerlein Brewing Co., Cincinnati, Ohio. Malt beverage. No. 74,362; July 6; Gaz. vol. 144; p. 272.
- Christiansen, J. W., New York, N. Y. Cereal substitute for coffee. No. 72,893; Mar. 2; Gaz. vol. 140; p. 250.
- Christman Sons, New York, N. Y. Pianos. No. 76,203; Dec. 28; Gaz. vol. 149; p. 1115.
- Christmas, W. W., Washington, D. C. Remedies for affections of the skin. No. 72,702; Feb. 16; Gaz. vol. 139; p. 725.
- Cincinnati Abattoir Co., Cincinnati, Ohio. Canned food products. No. 76,163; Dec. 21; Gaz. vol. 149; p. 830.
- Clagett, I. B., Spokane, Wash. Hair tonics and ointments. No. 75,038; Aug. 31; Gaz. vol. 145; p. 1245.
- Clark Grocery Co., Memphis, Tenn. Blended coffee. No. 75,740; Nov. 9; Gaz. vol. 148; p. 566.
- Clark-Horrocks Co., Utica, N. Y. Fishing-tackle. Nos. 73,255-7; Apr. 6; Gaz. vol. 141; p. 281-2.
- Clark-Horrocks Co., Utica, N. Y. Fishing-tackle. No. 73,637; May 4; Gaz. vol. 142; p. 285.
- Clark and Rowland, Pittsburg, Pa. Rheostats. No. 75,222; Sept. 14; Gaz. vol. 146; p. 502.
- Clark Sales Company, Buffalo, N. Y. Marshmallows. No. 72,999; Mar. 9; Gaz. vol. 140; p. 502.
- Clark, W. G., New York, N. Y. Antiseptic cleaning compound. No. 75,039; Aug. 31; Gaz. vol. 145; p. 1245.
- Clarke Bros. & Co., Peoria, Ill. Whisky. No. 75,502; Oct. 12; Gaz. vol. 147; p. 513.
- Clarke, W. R., Limehouse, England. Substances used as a dog food. No. 73,583; May 4; Gaz. vol. 142; p. 283.
- Classic Products Co., New York, N. Y. Prepared starch for alimentary purposes. No. 76,066; Dec. 14; Gaz. vol. 149; p. 597.
- Clauss, H., Fremont, Ohio. Penknives, scissors, and manicure files and blades. No. 75,692; Nov. 2; Gaz. vol. 148; p. 276.
- Clay, J. T., Vidalia, Ga. Remedies for certain diseases. No. 72,832; Mar. 2; Gaz. vol. 140; p. 249.
- Clemson, G. N., Middletown, N. Y. Hacksaws. No. 73,079; Mar. 16; Gaz. vol. 140; p. 751.
- Cleveland-Akron Bag Co., Cleveland, Ohio. Paper bags. No. 74,719; Aug. 3; Gaz. vol. 145; p. 252.
- Cleveland-Akron Bag Co., Cleveland, Ohio. Paper bags. No. 75,431; Oct. 5; Gaz. vol. 147; p. 231.
- Cleveland Bronze and Brass Works, Cleveland, Ohio. Certain plumbing supplies. No. 74,197; June 22; Gaz. vol. 143; p. 1105.
- Cleveland Provision Company, Cleveland, Ohio. Lard, pork sausage, breakfast-bacon, and hams. No. 75,503; Oct. 12; Gaz. vol. 147; p. 513.
- Cleveland & Sons, W. D., Houston, Tex. Canned fruits and vegetables. No. 74,606; July 27; Gaz. vol. 144; p. 1085.
- Cleveland Washboard Co., Cleveland, Ohio. Washboards. No. 76,019; Dec. 7; Gaz. vol. 149; p. 306.
- Cleveland Wire Goods Co., Cleveland, Ohio. Metal chain. No. 74,900; Aug. 17; Gaz. vol. 145; p. 760.
- Climax Coffee & Baking Powder Company, Indianapolis, Ind. Roasted coffee. No. 76,067; Dec. 14; Gaz. vol. 149; p. 597.
- Climax Sanitary Company, Detroit, Mich. Closet tanks and seats. No. 73,436; Apr. 20; Gaz. vol. 141; p. 862.
- Clinton Sugar Refining Company, Clinton, Iowa. Corn-glucose. No. 74,121; June 22; Gaz. vol. 143; p. 1103.
- Close, M., New York, N. Y. Crochet-covered buttons. No. 74,683; Aug. 3; Gaz. vol. 145; p. 251.
- Cluett, Peabody & Co., Troy, N. Y. Outer shirts of all kinds. No. 75,369; Sept. 28; Gaz. vol. 146; p. 953.
- Clyde Produce Co., Clyde, Ohio. Canned sauer-kraut. No. 72,483; Jan. 26; Gaz. vol. 138; p. 961.
- Clyde Produce Co., Clyde, Ohio. Canned sauer-kraut. No. 72,579; Feb. 2; Gaz. vol. 139; p. 195.
- Co-operative Printing Company, Chicago, Ill. Newspapers. No. 75,779; Nov. 16; Gaz. vol. 148; p. 827.
- Coast Manufacturing & Supply Co., Berkeley, Cal. Powder-train fuses. No. 74,544; July 20; Gaz. vol. 144; p. 814.
- Cobb, Bates & Yerxa Co., Boston, Mass. Cigars and smoking-tobacco. No. 73,700; May 11; Gaz. vol. 142; p. 564.
- Cochran, Drugan & Co., Trenton, N. J. Water-closets. No. 73,000; Mar. 9; Gaz. vol. 140; p. 502.
- Cochrane Manufacturing Company, Dedham, Mass. Handkerchiefs. No. 73,794; May 18; Gaz. vol. 142; p. 852.
- Code-Portwood Canning Co., Fruitvale, Cal. Canned fruits, vegetables, jellies, and jams. No. 74,438; July 13; Gaz. vol. 144; p. 558.
- Code-Portwood Canning Co., Fruitvale, Cal. Canned fruits. No. 74,439; July 13; Gaz. vol. 144; p. 558.
- Code-Portwood Canning Co., Fruitvale, Cal. Canned fruits and vegetables. No. 74,440; July 13; Gaz. vol. 144; p. 558.
- Code-Portwood Canning Co., Fruitvale, Cal. Canned fruits. No. 74,469; July 13; Gaz. vol. 144; p. 559.
- Code-Portwood Canning Co., Fruitvale, Cal. Canned vegetables. No. 74,962; Aug. 24; Gaz. vol. 145; p. 1017.
- Code-Portwood Canning Co., Fruitvale, Cal. Canned fruit. No. 76,175; Dec. 21; Gaz. vol. 149; p. 830.
- Cody, G., Brooklyn, N. Y. Traps and valves. No. 73,001; Mar. 9; Gaz. vol. 140; p. 502.
- Coe, J. A., Jr. (See New York Flexible Metallic Hose and Tubing Company, assignor.)
- Cohn, M. J., New York, N. Y. Cloaks, outer suits, and dresses. No. 75,800; Nov. 16; Gaz. vol. 148; p. 828.
- Cohrs, P. W., New York, N. Y. Puzzles. No. 72,114; Jan. 5; Gaz. vol. 138; p. 252.
- Coles, J. E., New York, N. Y. Berry, fruit, and vegetable boxes. No. 75,390; Sept. 28; Gaz. vol. 146; p. 954.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. Perfumes and toilet waters. No. 73,673; May 11; Gaz. vol. 142; p. 563.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. Perfumes. No. 75,617; Oct. 26; Gaz. vol. 147; p. 1031.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. Soaps and soap powders. Nos. 75,639-40; Oct. 26; Gaz. vol. 147; p. 1032.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. Soap and soap powders. No. 76,105; Dec. 14; Gaz. vol. 149; p. 598.
- Colin D. Mawer Company, New York, N. Y. Olives and stuffed olives. No. 74,498; July 20; Gaz. vol. 144; p. 813.
- Collette Mfg. Co., Amsterdam, N. Y. Metallic clamping-patches. No. 74,198; June 22; Gaz. vol. 143; p. 1105.
- Collison, J. H., Baltimore, Md. Oysters, fruits, and vegetables. No. 73,991; June 8; Gaz. vol. 143; p. 557.
- Colton, J. H., Newark, N. J. Hair-tonic. No. 73,754; May 18; Gaz. vol. 142; p. 851.
- Columbia Cotton Mill Co., Columbia, Tenn. Cotton bags. No. 73,701; May 11; Gaz. vol. 142; p. 564.
- Columbia Drug Co., Savannah, Ga. Family liniment. No. 75,618; Oct. 26; Gaz. vol. 147; p. 1031.
- Columbia Refining Company, New York, N. Y. Lubricating-greases. No. 75,680; Nov. 2; Gaz. vol. 148; p. 275.
- Columbia River Packers Association, Astoria, Oreg. Canned salmon. Nos. 72,894-9; Mar. 2; Gaz. vol. 140; p. 251.
- Columbia River Packers Association, Astoria, Oreg. Canned salmon. Nos. 73,214-16; Mar. 30; Gaz. vol. 140; p. 1203.
- Columbia River Packers Association, Astoria, Oreg. Canned salmon. No. 73,533; Apr. 27; Gaz. vol. 141; p. 1158.
- Columbia River Packers Association, Astoria, Oreg. Canned salmon. No. 73,854; May 25; Gaz. vol. 142; p. 1110.
- Columbian Brass Foundry, Freeport, N. Y. Propellers. No. 75,557; Oct. 19; Gaz. vol. 147; p. 767.
- Columbus Amusement Company, Columbus, Ohio. Scenic railways and roller-coasters. No. 73,614; May 4; Gaz. vol. 142; p. 284.
- Columbus Piano Co., Columbus, Ohio. Piano and player-pianos. No. 72,355; Jan. 19; Gaz. vol. 138; p. 764.
- Commercial Cream Co. Ltd., Boise, Idaho. Butter and ice-cream. No. 73,361; Apr. 13; Gaz. vol. 141; p. 562.
- Commercial Furniture Company, Chicago, Ill. Desks of various kinds and tables. No. 74,720; Aug. 3; Gaz. vol. 145; p. 252.
- Commercial Importing Company, Seattle, Wash. Blended coffee. No. 73,674; May 11; Gaz. vol. 142; p. 563.
- Commercial Paste Company, Columbus, Ohio. Cleaning compound. No. 73,570; May 4; Gaz. vol. 142; p. 283.
- Commercial Paste Company, Columbus, Ohio. Rubber tablet-gum. No. 73,832; May 25; Gaz. vol. 142; p. 1109.
- Compagnie des Produits Kemmerich Société Anonyme, Antwerp, Belgium. Extracts of meat. No. 73,174; Mar. 23; Gaz. vol. 140; p. 998.
- Concord Canning Co., Stavanger, Norway. Herrings, sardines, anchovies, cod-roe, and fish-balls. No. 75,155; Sept. 7; Gaz. vol. 146; p. 252.
- Condon Bros. & Co., Brockton, Mass. Leather boots and shoes. No. 75,247; Sept. 14; Gaz. vol. 146; p. 503.
- Cone Export and Commission Company, New York, N. Y. Cotton plaid shirts. No. 75,112; Sept. 7; Gaz. vol. 146; p. 251.
- Coney, M. A., Brunswick, Ga. Fire-kindler. No. 72,764; Feb. 16; Gaz. vol. 139; p. 727.
- Congress Hotel Company, Chicago, Ill. Bourbon whisky. No. 75,113; Sept. 7; Gaz. vol. 146; p. 251.
- Congress Hotel Company, Chicago, Ill. Blended rye whisky. No. 75,114; Sept. 7; Gaz. vol. 146; p. 251.
- Conneaut Company, Conneaut, Ohio. Electric-light fixtures. No. 73,437; Apr. 20; Gaz. vol. 141; p. 862.
- Connell, J. J., Boston, Mass. Boys' outer suits. Nos. 75,721-3; Nov. 9; Gaz. vol. 148; p. 565.



*Alphabetical list of registrants of trade-marks—Continued.*

- Consolidated Engineering Co., Chicago, Ill. Valves and valve-fittings. No. 75,959; Nov. 30; Gaz. vol. 148; p. 1340.
- Consolidated Packing & Supply Co., New York, N. Y. Packings, pump-valves, gaskets, &c. No. 73,776; May 18; Gaz. vol. 142; p. 852.
- Consolidated Railway Industrial Straw Paper Company, New York, N. Y. Preservative. No. 74,797; Aug. 10; Gaz. vol. 145; p. 508.
- Consolidated Woolen Felt Mills Co., Amsterdam, N. Y. Rugs. No. 74,761; Aug. 10; Gaz. vol. 145; p. 507.
- Constable, W. H., Los Angeles, Cal. Butter. No. 74,122; June 22; Gaz. vol. 143; p. 1103.
- Consumers Biscuit & Manufacturing Co., East Orange, N. J., and New York, N. Y. Tea-biscuits. No. 72,216; Jan. 12; Gaz. vol. 138; p. 523.
- Consumers Brewing Company, Denver, Colo. Beer. No. 75,184; Sept. 14; Gaz. vol. 146; p. 501.
- Consumers Brewing Company, Denver, Colo. Beer. No. 75,526; Oct. 12; Gaz. vol. 147; p. 514.
- Continental Bitumen Co., Toledo, Ohio. Hydrocarbon cement. No. 74,040; June 15; Gaz. vol. 143; p. 859.
- Continental Fruit Packing Co., Limited, London, England. Canned fruits and vegetables. Nos. 74,607-8; July 27; Gaz. vol. 144; p. 1085.
- Continental Portland Cement Company, Continental and St. Louis, Mo. Portland cement. No. 74,634; July 27; Gaz. vol. 144; p. 1086.
- Conway Company, Boston Mass. Pianos. No. 72,356; Jan. 19; Gaz. vol. 138; p. 764.
- Cook, A. E., Kankakee, Ill. Certain agricultural machinery. No. 76,227; Dec. 28; Gaz. vol. 149; p. 1116.
- Cook & Co., E. D., Binghamton, N. Y. Blanched and salted peanuts, salted peanuts, and peanut-butter. No. 73,795; May 18; Gaz. vol. 142; p. 852.
- Coon Brothers, Troy, N. Y. Certain clothing. No. 72,421; Jan. 26; Gaz. vol. 138; p. 959.
- Cooper Mfg Co., Bennington, Vt. Undershirts, drawers, and union suits. No. 75,072; Aug. 31; Gaz. vol. 145; p. 1246.
- Cooper & Nephews, W., Berkhamsted, England. Spraying fluids. No. 72,515; Feb. 2; Gaz. vol. 139; p. 193.
- Cooper & Nephews, W., Berkhamsted, England. Antiseptic ointment for human and veterinary use. No. 73,289; Apr. 6; Gaz. vol. 141; p. 282.
- Cooper & Nephews, W., Berkhamsted, England. Liquid disinfectant. No. 74,852; Aug. 17; Gaz. vol. 145; p. 759.
- Cooper Oven Thermometer Company, Plymouth and Pequabuck, Conn. Oven-thermometers. No. 72,098; Jan. 5; Gaz. vol. 138; p. 251.
- Cooper, Wells & Co., St. Joseph, Mich. Hosiery. No. 73,833; May 25; Gaz. vol. 142; p. 1109.
- Coraleone Curative Company, Boston, Mass. Toilet emollients. No. 76,176; Dec. 21; Gaz. vol. 149; p. 830.
- Corby Commission Company, New York, N. Y. Canned, dried, and evaporated fruits and vegetables and canned and dried fish. No. 73,534; Apr. 27; Gaz. vol. 141; p. 1158.
- Corby Commission Company, New York, N. Y. Fruits, vegetables, and fish. No. 73,846; May 25; Gaz. vol. 142; p. 1110.
- Corby Commission Company, New York, N. Y. Fruits, vegetables, lobster, and salmon. No. 73,855; May 25; Gaz. vol. 142; p. 1110.
- Corday, J., New York, N. Y. Coats, vests, trousers, and overcoats. No. 73,584; May 4; Gaz. vol. 142; p. 283.
- Corinth Woolen Mills, St. Louis, Mo. Youths' outer suits. No. 75,838; Nov. 23; Gaz. vol. 148; p. 1081.
- Corkins Chemical Company, Cincinnati, Ohio. Disinfectants. No. 73,880; May 25; Gaz. vol. 142; p. 1110.
- Corl, Knott & Co., Ltd., Grand Rapids, Mich. Hats. No. 72,703; Feb. 16; Gaz. vol. 139; p. 725.
- Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Corn-oil. No. 72,099; Jan. 5; Gaz. vol. 138; p. 251.
- Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Grape-sugar and corn-sugar. No. 72,187; Jan. 5; Gaz. vol. 138; p. 254.
- Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Stock food, grape-sugar, and corn-starch. No. 72,448; Jan. 26; Gaz. vol. 138; p. 960.
- Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Corn-sugar. No. 73,362; Apr. 13; Gaz. vol. 141; p. 562.
- Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Laundry, pearl, and powdered starch. No. 73,466; Apr. 20; Gaz. vol. 141; p. 863.
- Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Warp-sizing starch. No. 73,467; Apr. 20; Gaz. vol. 141; p. 863.
- Cornell Bros. (Incorporated), Elgin and Chicago, Ill. Evaporated milk. No. 75,040; Aug. 31; Gaz. vol. 145; p. 1245.
- Corning Glass Works, Corning, N. Y. Lantern and lamp globes or chimneys. No. 75,641; Oct. 26; Gaz. vol. 147; p. 1032.
- Corno Mills Company, East St. Louis, Ill., and St. Louis, Mo. Rolled oats. No. 75,347; Sept. 21; Gaz. vol. 146; p. 717.
- Coronelle Company, Chicago, Ill. Certain foods. No. 74,635; July 27; Gaz. vol. 144; p. 1086.
- Corrugated Metal Manufacturing Company, Emporia, Kans. Corrugated-metal culverts and pipes. No. 72,217; Jan. 12; Gaz. vol. 138; p. 523.
- Corset H Company, Worcester, Mass. Corsets. No. 72,546; Feb. 2; Gaz. vol. 139; p. 194.
- Corset H Company, Worcester, Mass. Corsets. No. 75,724; Nov. 9; Gaz. vol. 148; p. 565.
- Cory, G. E., St. Louis, Mo. Prepared rubber roofing. No. 72,650; Feb. 9; Gaz. vol. 139; p. 458.
- Cottish-Waxo Chemical Company, St. Louis, Mo. Sweeping compositions. No. 74,405; July 13; Gaz. vol. 144; p. 557.
- Courtaide, E., New York, N. Y. Blended coffee. No. 75,801; Nov. 16; Gaz. vol. 148; p. 828.
- Cotsepeira, A., New Orleans, La. Pitch-pine and hard wood, logs, timber, &c. No. 75,203; Sept. 14; Gaz. vol. 146; p. 501.
- Covel Mfg. Co., Benton Harbor, Mich. Certain machinery. No. 73,258; Apr. 6; Gaz. vol. 141; p. 282.
- Cover Supply Co., Baltimore, Md. Ground mixed feed. No. 74,684; Aug. 3; Gaz. vol. 145; p. 251.
- Coward, J. S., New York, N. Y. Leather boots and shoes. No. 73,661; May 11; Gaz. vol. 142; p. 563.
- Cowgill, H. N., Hickman, Ky. Phosphate beverage. No. 75,156; Sept. 7; Gaz. vol. 146; p. 252.
- Cox, A. G., Carlisle, Ind. Veterinary remedy. No. 75,271; Sept. 21; Gaz. vol. 146; p. 712.
- Cox Gelatine Company, New York, N. Y. Gelatin. No. 75,693; Nov. 2; Gaz. vol. 148; p. 276.
- Coyle & Caywood, Weedsport, N. Y. Natural mineral water. No. 76,142; Dec. 21; Gaz. vol. 149; p. 829.
- Craft Remedy Company, Chicago, Ill. Salve for protruding, itching, bleeding, and blind piles, eczema, and all skin diseases. No. 73,548; Apr. 27; Gaz. vol. 141; p. 1158.
- Cramer, J. W., Charlotte, N. C., and Atlanta, Ga. Air-humidifiers. No. 74,123; June 22; Gaz. vol. 143; p. 1103.
- Crapo, J., New York, N. Y. Linens, laces, crapes, and towels. No. 75,391; Sept. 28; Gaz. vol. 146; p. 934.
- Crazy Well Water Company of Mineral Wells, Mineral Wells, Tex. Natural mineral water. No. 73,912; June 1; Gaz. vol. 143; p. 253.
- Cream City Bedding Company, Milwaukee, Wis. Bed-springs. No. 72,127; Jan. 5; Gaz. vol. 138; p. 252.
- Creese & Cook Co., Boston, Mass. Shoe-upper leather and calfskins. No. 73,888; June 1; Gaz. vol. 143; p. 253.
- Creole Chemical Co., St. Louis, Mo. Medicinal compound in tablet form. No. 72,833; Mar. 2; Gaz. vol. 140; p. 249.
- Crete Mills, Crete, Nebr. Wheat-flour. No. 73,992; June 8; Gaz. vol. 143; p. 557.
- Cribben & Sexton Company, Chicago, Ill. Stoves and ranges and parts of stoves and ranges. No. 72,145; Jan. 5; Gaz. vol. 138; p. 252.
- Crippen & Reid, Saratoga Springs and Ballston Spa, N. Y. Outer wash-suits, dress and shirt waists, kimonos, &c. No. 75,762; Nov. 16; Gaz. vol. 148; p. 827.
- Crocker, R. M., Chicago, Ill. Tonic to be used in stock foods for animals. No. 75,828; Nov. 16; Gaz. vol. 148; p. 829.
- Crocker-Wheeler Company, East Orange, N. J. Dynamo-electric machines. No. 72,547; Feb. 2; Gaz. vol. 139; p. 194.
- Croft & Allen Company, Philadelphia, Pa. Candy. No. 73,435; Apr. 20; Gaz. vol. 141; p. 862.
- Crookes Roberts & Co., Sheffield, England. Iron and steel in bars, rods, sheets, and wire. No. 73,638; May 4; Gaz. vol. 142; p. 285.
- Crookes, Roberts & Co., Sheffield, England. Iron and steel in bars, rods, sheets, and wire. No. 75,073; Aug. 31; Gaz. vol. 145; p. 1246.
- Crown Cork and Seal Co., Baltimore, Md. Artificial cork. No. 73,322; Apr. 13; Gaz. vol. 141; p. 561.
- Crown Distilleries Co., San Francisco, Cal., New York, N. Y., and Cincinnati, Ohio. Wine having medicinal properties. No. 74,270; June 29; Gaz. vol. 143; p. 1340.
- Crown Perfumery Co., London, England. Perfumed powder for softening water. No. 74,545; July 20; Gaz. vol. 144; p. 814.
- Crown Perfumery Company, London, England. Perfumes. No. 72,834; Mar. 2; Gaz. vol. 140; p. 249.
- Crown Sweets Company, New York, N. Y. Fruit-flavored candy tablets. No. 73,993; June 8; Gaz. vol. 143; p. 557.
- Crown Varnish and Enamel Company, Chicago, Ill. Varnish. No. 76,106; Dec. 14; Gaz. vol. 149; p. 598.
- Crude Oil Products Company, Pittsburg, Pa. Hair-tonic and liniment. No. 74,853; Aug. 17; Gaz. vol. 145; p. 759.
- Crump, F. H., Los Angeles, Cal. Loose-leaf binder. No. 74,882; Aug. 17; Gaz. vol. 145; p. 760.
- Crump & Field, Ashland, Ky. Coffee. No. 74,963; Aug. 24; Gaz. vol. 145; p. 1017.
- Crump, L. M., Chicago, Ill., and Indianapolis, Ind. Cigars. No. 72,698; Feb. 9; Gaz. vol. 139; p. 459.
- Crystallith Mineral & Mining Company, Newark, N. J. Soapstone, talc, actinolite, &c. No. 75,223; Sept. 14; Gaz. vol. 146; p. 502.
- Cudahy Packing Company, Chicago, Ill., and South Omaha, Nebr. Contracting styptic blood-pressure-raising preparation. No. 72,580; Feb. 2; Gaz. vol. 139; p. 195.
- Cudahy Packing Company, Chicago, Ill., and South Omaha, Nebr. Sausage. No. 74,495; July 13; Gaz. vol. 144; p. 559.
- Cudahy Packing Company, Chicago, Ill., and South Omaha, Nebr. Astringent and antiseptic. No. 76,248; Dec. 28; Gaz. vol. 149; p. 1116.
- Cuddy Cheese Co., Sheboygan, Wis. Cream-cheese. No. 74,124; June 22; Gaz. vol. 143; p. 1103.
- Cudlip, E., New York, N. Y. Mouth-wash. No. 75,960; Nov. 30; Gaz. vol. 148; p. 1340.
- Cumner Mfg. Co., Cadillac, Mich. Crates. No. 74,125; June 22; Gaz. vol. 143; p. 1103.
- Curioso Dust Company, Los Angeles, Cal. Finger-nail-polishing compound. No. 75,780; Nov. 16; Gaz. vol. 148; p. 827.
- Curran & Barry, New York, N. Y. Cotton duck. No. 74,199; June 22; Gaz. vol. 143; p. 1105.
- Currier Publishing Co., Chicago, Ill. Monthly farm paper. No. 72,267; Jan. 12; Gaz. vol. 138; p. 524.
- Curtin-Ehebert Anthony Co., Gloversville, N. Y. Tools for dressing abrasive and polishing wheels. No. 74,442; July 13; Gaz. vol. 144; p. 558.
- Cushing Medical Supply Co., Dover, Del., and Boston, Mass. Fruit and sherry. No. 75,558; Oct. 19; Gaz. vol. 147; p. 767.
- Cushing Medical Supply Co., Dover, Del., and Boston, Mass. Certain spirituous liquors. No. 75,559; Oct. 19; Gaz. vol. 147; p. 767.



*Alphabetical list of registrants of trade-marks—Continued.*

- Cushing Medical Supply Co., Dover, Del., and Boston, Mass. Wines. No. 75,560; Oct. 19; Gaz. vol. 147; p. 767.  
 Cushing Medical Supply Co., Dover, Del., and Boston, Mass. Whisky, rum, gin, brandy, and rock and rye. No. 75,899; Nov. 23; Gaz. vol. 148; p. 1083.  
 Cusimano, F., New York, N. Y. Italian tomato sauce. No. 72,581; Feb. 2; Gaz. vol. 139; p. 195.  
 Custer Chemical Co., New York, N. Y. Peroxid of hydrogen. No. 75,713; Nov. 9; Gaz. vol. 148; p. 565.  
 D. Kelly Company, Columbus, Ohio. Canned vegetables. No. 73,235; Apr. 6; Gaz. vol. 141; p. 281.  
 D. Kelly Company, Columbus, Ohio. Canned vegetables and tomato catsup. No. 74,721; Aug. 3; Gaz. vol. 145; p. 252.  
 D. G. Yuengling & Son, Pottsville, Pa. Beer. No. 73,850; May 25; Gaz. vol. 142; p. 1110.  
 D. L. Arey Distilling Co., Baltimore, Md. Straight rye whiskies. No. 74,998; Aug. 24; Gaz. vol. 145; p. 1018.  
 D. & L. Slade Co., Boston, Mass. Spices. No. 72,449; Jan. 26; Gaz. vol. 138; p. 960.  
 D. & L. Slade Co., Boston, Mass. Spices. No. 72,582; Feb. 2; Gaz. vol. 139; p. 195.  
 D. R. Bradley & Son, Pleasantville and New York, N. Y. Perfumes, toilet water, sachet-powder, and toilet powder. Nos. 72,835-6; Mar. 2; Gaz. vol. 140; p. 249.  
 D. R. Bradley & Son, Pleasantville and New York, N. Y. Toilet soap. No. 73,913; June 1; Gaz. vol. 143; p. 253.  
 D. R. Bradley & Son, Pleasantville and New York, N. Y. Toilet soap. No. 73,921; June 1; Gaz. vol. 143; p. 254.  
 D. R. Bradley & Son, Pleasantville and New York, N. Y. Toilet soap. No. 73,934; June 1; Gaz. vol. 143; p. 254.  
 D. R. Bradley & Son, Pleasantville and New York, N. Y. Perfumes, toilet water, toilet and sachet powder. No. 74,126; June 22; Gaz. vol. 143; p. 1103.  
 D. R. Bradley & Son, Pleasantville and New York, N. Y. Toilet soap. No. 74,172; June 22; Gaz. vol. 143; p. 1104.  
 D. R. Bradley & Son, Pleasantville and New York, N. Y. Perfumes, toilet water, toilet, sachet, and talc powder. No. 74,271; June 29; Gaz. vol. 143; p. 1340.  
 D. T. Owen Co., East Cleveland, Ohio. Couches and beds. No. 75,839; Nov. 23; Gaz. vol. 148; p. 1081.  
 Dahlberg, A. E., Chicago, Ill. Laxative tablets and laxative-quinin tablets. No. 73,290; Apr. 6; Gaz. vol. 141; p. 282.  
 Daimler-Motoren-Gesellschaft Untertürkheim, near Stuttgart, Germany. Chains, valves, cocks, chain and tube couplings. No. 75,681; Nov. 2; Gaz. vol. 148; p. 275.  
 Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, Germany. Certain tools and machinery. No. 76,020; Dec. 7; Gaz. vol. 149; p. 306.  
 Dallet and Weyl, New York, N. Y. Certain clothing. No. 75,933; Nov. 30; Gaz. vol. 148; p. 1339.  
 Dalzell Company, Cold Spring, N. Y. Certain beverages. No. 72,146; Jan. 5; Gaz. vol. 138; p. 252.  
 Dan River Power & Manfg. Co., Danville, Va. Cotton sheetings. Nos. 74,526-9; July 20; Gaz. vol. 144; p. 814.  
 Dan River Power & Mfg. Co., Danville, Va. Cotton shirtings. No. 75,561; Oct. 19; Gaz. vol. 147; p. 767.  
 Dan River Power & Mfg. Co., Danville, Va. Cotton shirtings. No. 75,890; Nov. 23; Gaz. vol. 148; p. 1082.  
 Dana Manufacturing Company, Norwood, Ohio. Ice-cream freezers. Nos. 74,546-7; July 20; Gaz. vol. 144; p. 814.  
 Dana Manufacturing Company, Norwood, Ohio. Rotary food-choppers. No. 74,980; Aug. 24; Gaz. vol. 145; p. 1018.  
 Dana Manufacturing Company, Norwood, Ohio. Ice-cream freezers. No. 75,012; Aug. 24; Gaz. vol. 145; p. 1019.  
 Dana Manufacturing Company, Norwood, Ohio. Mop-wringers. No. 75,074; Aug. 31; Gaz. vol. 145; p. 1246.  
 Danebaum, W., New York, N. Y. Certain clothing. No. 76,068; Dec. 14; Gaz. vol. 149; p. 597.  
 Daniel, J., Lynchburg, Tenn. Straight whisky. No. 75,469; Oct. 5; Gaz. vol. 147; p. 232.  
 Daniel, J. B., Atlanta, Ga. Remedy for certain diseases. No. 72,583; Feb. 2; Gaz. vol. 139; p. 195.  
 Daniel, J. B., Atlanta, Ga. Remedy for certain diseases. No. 73,080; Mar. 16; Gaz. vol. 140; p. 751.  
 Dannemann & Co., S. Felix, Brazil. Cigars. No. 75,979; Nov. 30; Gaz. vol. 148; p. 1340.  
 Dannemiller Coffee Company, Brooklyn, N. Y. Blended coffee. No. 73,914; June 1; Gaz. vol. 143; p. 253.  
 Darche Mfg Co., Chicago, Ill. Alarm-clocks. No. 74,406; July 13; Gaz. vol. 144; p. 557.  
 Darling, F. E. B., Albany, N. Y. Baking-powder. No. 75,853; Nov. 23; Gaz. vol. 148; p. 1081.  
 Darling Pump & Mfg. Co., Limited, Williamsport, Pa. Composition packing. No. 73,160; Mar. 23; Gaz. vol. 140; p. 997.  
 Darris, S. D., Newellton, La. Healing-salves. No. 73,323; Apr. 13; Gaz. vol. 141; p. 561.  
 David Cole Creamery Co., Omaha, Nebr. Butter. No. 72,308; Jan. 19; Gaz. vol. 138; p. 763.  
 David Marks & Sons, New York, N. Y. Coats, vests, and pantaloons. No. 73,275; Apr. 6; Gaz. vol. 141; p. 282.  
 Davidson-Dietrich Plow Co., Evansville, Ind. Plows. No. 73,439; Apr. 20; Gaz. vol. 141; p. 862.  
 Davies & Sons, Baltimore, Md. Pianos. No. 75,600; Oct. 26; Gaz. vol. 147; p. 1031.  
 Davis, C. T., Brooklyn, N. Y. Certain surgical goods. No. 74,363; July 6; Gaz. vol. 144; p. 272.  
 Davis Chemical Company, Denver, Colo. Hair-tonic. No. 72,704; Feb. 16; Gaz. vol. 139; p. 725.  
 Davis Hosiery Mills, Chattanooga, Tenn. Hosiery. No. 72,705; Feb. 16; Gaz. vol. 139; p. 725.  
 Davis, I. J., Thurman, N. Y. Remedy for consumption. No. 73,148; Mar. 23; Gaz. vol. 140; p. 997.  
 Davis Sewing Machine Co., Dayton, Ohio. Sewing-machines and attachments therefor. No. 73,259; Apr. 6; Gaz. vol. 141; p. 282.  
 Davis Sewing Machine Company, Dayton, Ohio. Sewing-machines. No. 73,702; May 11; Gaz. vol. 142; p. 564.  
 Dawson, Halliwell & Co., Manchester, England. Handkerchiefs not in the piece. No. 72,450; Jan. 26; Gaz. vol. 138; p. 960.  
 Day, P., Philadelphia, Pa. Soap. No. 74,921; Aug. 17; Gaz. vol. 145; p. 761.  
 Dayton Biscuit Co., Dayton, Ohio. Crackers and cakes. No. 75,987; Dec. 7; Gaz. vol. 149; p. 305.  
 Dayton Dry Goods Co., Minneapolis, Minn. Cotton long-cloth. No. 75,359; Sept. 28; Gaz. vol. 146; p. 953.  
 Dayton Spice Mills Co., Dayton, Ohio. Blend coffee. No. 72,791; Feb. 23; Gaz. vol. 139; p. 985.  
 De-Fi Manufacturing Co., New York, N. Y. Carbon-paper. No. 73,511; Apr. 27; Gaz. vol. 141; p. 1157.  
 De Fremery & Co., San Francisco, Cal. Holland gin. No. 74,999; Aug. 24; Gaz. vol. 145; p. 1018.  
 De Kay, J. E., and R. Gilder, New York, N. Y. Egyptian cigarettes made of Turkish tobacco. No. 73,881; May 25; Gaz. vol. 142; p. 1111.  
 De Lacy Chemical Co., St. Louis, Mo. Cream for the skin, tooth-powder, face-powder, and perfumes. No. 73,796; May 18; Gaz. vol. 142; p. 852.  
 De Meridor Co., Scranton, Pa. Certain toilet preparations. No. 72,324; Jan. 19; Gaz. vol. 138; p. 763.  
 De Meridor Co., Scranton, Pa. Creams, powder, and skin food. No. 75,303; Sept. 21; Gaz. vol. 146; p. 716.  
 De Paul, A., Philadelphia, Pa. Skin-cleansing preparations. No. 73,276; Apr. 6; Gaz. vol. 141; p. 282.  
 Deal, S. J., Philadelphia, Pa. Toilet deodorants. No. 72,837; Mar. 2; Gaz. vol. 140; p. 249.  
 Deal, W., Osage, Okla. Liniment. No. 75,781; Nov. 16; Gaz. vol. 148; p. 827.  
 Dean & Company, Limited, Ann Arbor, Mich. Canned salmon and vegetables and blended coffee. No. 74,762; Aug. 10; Gaz. vol. 145; p. 507.  
 Decker, A. C., Keokuk, Iowa. Currycombs. No. 74,248; June 29; Gaz. vol. 143; p. 1340.  
 Decker & Cohn, A., Chicago, Ill. Men's, youths', and children's coats, vests, and trousers. No. 74,272; June 29; Gaz. vol. 143; p. 1340.  
 Deering, Milliken & Co., New York, N. Y. Bleached cotton goods in the piece. Nos. 74,685-6; Aug. 3; Gaz. vol. 145; p. 251.  
 Deering, Milliken & Co., New York, N. Y. Cotton piece goods. Nos. 74,981-2; Aug. 24; Gaz. vol. 145; p. 1018.  
 Deering, Milliken & Co., New York, N. Y. Bleached cotton goods. No. 75,527; Oct. 12; Gaz. vol. 147; p. 514.  
 Degen & Kuth, Dr., Düren, Germany. Medicinal dietetical iron preparations. No. 72,602; Feb. 9; Gaz. vol. 139; p. 457.  
 Degen & Kuth, Dr., Düren, Germany. Rubber preparations for covering the skin for hygienic purposes. No. 72,603; Feb. 9; Gaz. vol. 139; p. 457.  
 Degen & Kuth, Dr., Düren, Germany. Tonic remedy for diseases of the heart. No. 72,706; Feb. 16; Gaz. vol. 139; p. 725.  
 Degen & Kuth, Dr., Düren, Germany. Remedy for rhachitis. No. 72,707; Feb. 16; Gaz. vol. 139; p. 725.  
 Delisle, J. D., Haverhill, Mass. Ointment for catarrh. No. 72,959; Mar. 9; Gaz. vol. 140; p. 501.  
 Demsey & Sibley Company, Cuba, N. Y. Cream-cheese. No. 72,900; Mar. 2; Gaz. vol. 140; p. 251.  
 Demsey & Sibley Company, Cuba, N. Y. Cream-cheese. No. 72,922; Mar. 2; Gaz. vol. 140; p. 251.  
 Dental Drug Co., Baltimore, Md. Tooth-paste. No. 75,224; Sept. 14; Gaz. vol. 146; p. 502.  
 Deperdussin, A. J. A., Paris, France. Toy projecting apparatus. No. 74,273; June 29; Gaz. vol. 143; p. 1340.  
 Der-mo-tine Company, Fort Wayne, Ind. Massage-cream. No. 72,838; Mar. 2; Gaz. vol. 140; p. 249.  
 Des Moines Saddlery Co., Des Moines, Iowa. Horse-clothing. No. 72,548; Feb. 2; Gaz. vol. 139; p. 194.  
 Desenberg and Ganster, Los Angeles, Cal. Silk piece goods. No. 73,512; Apr. 27; Gaz. vol. 141; p. 1157.  
 Detroit Milling Company, Detroit and Adrian, Mich. Wheat-flour. No. 76,069; Dec. 14; Gaz. vol. 149; p. 597.  
 Detroit Publishing Company, Detroit, Mich.; New York, N. Y.; Los Angeles, Cal., and London, England. Pictorial post-card. No. 73,411; Apr. 20; Gaz. vol. 141; p. 861.  
 Detroit Sulphite Pulp & Paper Co., Detroit, Mich. Tag-boards, bristol-boards, and papers. Nos. 74,338-9; July 6; Gaz. vol. 144; p. 272.  
 Deutsche L., Chicago, Ill. Ladies' dress skirts and waists. No. 73,489; Apr. 27; Gaz. vol. 141; p. 1157.  
 Deutsche Conservierungsgesellschaft für Nahrungs- und Genussmittel m. b. H., Berlin, Germany. Pitch for use in breweries. No. 74,854; Aug. 17; Gaz. vol. 145; p. 759.  
 Dexter & Sons, C. H., Windsor Locks, Conn. Cover-papers. No. 73,194; Mar. 30; Gaz. vol. 140; p. 1203.  
 Di Nolfo, V., Philadelphia, Pa. Remedy for indigestion and a stomach-tonic. No. 75,041; Aug. 31; Gaz. vol. 145; p. 1245.  
 Diehl, P. H., Omaha, Nebr. Salve remedy for galls, cuts, bruises, wounds, and scratches of horses and live stock. No. 73,972; June 8; Gaz. vol. 143; p. 557.



*Alphabetical list of registrants of trade-marks—Continued.*

- Dietz, G. H., Stockton, Cal. Camphor toilet cream. No. 73,889; June 1; Gaz. vol. 143; p. 253.
- Dike Drug Co., New York, N. Y. Medicines for certain diseases. No. 73,324; Apr. 13; Gaz. vol. 141; p. 561.
- Dilling & Company, Indianapolis, Ind. Chocolate candies. No. 73,105; Mar. 16; Gaz. vol. 140; p. 752.
- Dillon, J. A. (See Dillon, M. A., assignor.)
- Dillon, M. A., Hackensack and North Paterson, N. J., assignor to J. A. Dillon, Hackensack, N. J. Peach cordial. No. 75,011; Aug. 24; Gaz. vol. 145; p. 1019.
- Disinfectant Dustlayer Company, Providence, R. I. Fabric for absorbing dust. No. 74,763; Aug. 10; Gaz. vol. 145; p. 507.
- Distillers Company, Limited, Edinburgh, Scotland. Blend of straight Scotch whiskies. No. 73,935; June 1; Gaz. vol. 143; p. 254.
- Dix Manufacturing Company, Lewistown, Pa. Leather-dressing. No. 74,340; July 6; Gaz. vol. 144; p. 272.
- Dixie Portland Cement Company, South Pittsburg, Tenn. Portland cement. No. 73,325; Apr. 13; Gaz. vol. 141; p. 561.
- Dixon & Co., J., Prahran, near Melbourne, Victoria, Australia. Non-alcoholic extract for making beverages. No. 75,694; Nov. 2; Gaz. vol. 148; p. 276.
- Dizer-Copeland Co., Brockton, Mass. Leather boots, shoes, and slippers. No. 72,516; Feb. 2; Gaz. vol. 139; p. 193.
- Doble, W. H., Quincy, Mass. Gum-pastes. No. 73,777; May 18; Gaz. vol. 142; p. 852.
- Dodds Medicine Company of Ontario, Limited, Toronto, Ontario, Canada. Proprietary medicine in pill form used as a remedy for diseases of the kidneys. No. 75,504; Oct. 12; Gaz. vol. 147; p. 513.
- Dodge Manufacturing Company, Mishawaka, Ind. Rope for transmitting power over pulleys, &c. No. 73,549; Apr. 27; Gaz. vol. 141; p. 1158.
- Dodge Manufacturing Company, Mishawaka, Ind. Certain machine parts. No. 73,703; May 11; Gaz. vol. 142; p. 564.
- Dodge Manufacturing Company, Mishawaka, Ind. Machine to soften and purify water. No. 73,936; June 1; Gaz. vol. 143; p. 254.
- Dodge Manufacturing Company, Mishawaka, Ind. Belt-pulleys. No. 74,274; June 29; Gaz. vol. 143; p. 1340.
- Dollfus-Mieg & Cie. Société Anonyme, Mülhausen, Germany. Yarns and threads made of cotton, silk, linen, &c. Nos. 75,360-1; Sept. 28; Gaz. vol. 146; p. 953.
- Domestic Laundry Supply Co., St. Louis, Mo. Ironing-pads. No. 72,147; Jan. 5; Gaz. vol. 138; p. 252.
- Domestic Mfg. Co., Long Island City, N. Y. Scouring and polishing powder. No. 72,901; Mar. 2; Gaz. vol. 140; p. 251.
- Domestic Sewing Machine Company, Newark, N. J. Sewing-machines and attachments. No. 72,651; Feb. 9; Gaz. vol. 139; p. 458.
- Doolittle, W. W., Columbus, Ohio. Laundry starch. No. 73,890; June 1; Gaz. vol. 143; p. 253.
- Dorch Campbell, Incorporated, Middlesboro, Ky. Certain food. No. 75,392; Sept. 28; Gaz. vol. 146; p. 954.
- Doten-Dunton Desk Co., Boston, Mass. Certain furniture. No. 76,021; Dec. 7; Gaz. vol. 149; p. 306.
- Douglas-Hamilton, P. S., South Kensington, London, England. Direction-indicators for motor-cars, &c. No. 75,000; Aug. 24; Gaz. vol. 145; p. 1018.
- Douthitt, J. W., Bedford, Ind. Remedy for certain diseases. No. 75,619; Oct. 26; Gaz. vol. 147; p. 1031.
- Dover, G. W., Providence, R. I. Jewelry. No. 74,941; Aug. 24; Gaz. vol. 145; p. 1017.
- Dover Stamping and Manufacturing Company, Cambridge, Mass. Tin and sheet-iron receptacles. No. 75,528; Oct. 12; Gaz. vol. 147; p. 514.
- Dow & Webb, Wooster, Ohio. Roof and metal paint. No. 75,695; Nov. 2; Gaz. vol. 148; p. 276.
- Downing, M. I., New York, N. Y. Leather gloves. No. 74,220; June 29; Gaz. vol. 143; p. 1339.
- Drogen, R., Washington, D. C. Remedy for coughs, colds, and asthma. No. 74,088; June 15; Gaz. vol. 143; p. 860.
- Dresser, H. B., Liverpool, England. Chlorid of magnesium. No. 73,704; May 11; Gaz. vol. 142; p. 564.
- Dresser, H. B., Liverpool, England. Cement (calcareous) for making artificial millstones. No. 75,840; Nov. 23; Gaz. vol. 148; p. 1081.
- Drew Stranahan Hussey Co., Boston, Mass. Disinfectants. No. 74,275; June 29; Gaz. vol. 143; p. 1340.
- Drew Stranahan Hussey Co., Boston, Mass. Remedy for typhoid fever. No. 75,248; Sept. 14; Gaz. vol. 146; p. 503.
- Dreyfuss, Weil & Co., Incorporated, Paducah, Ky. Artificially-flavored whisky cordial. No. 73,762; May 18; Gaz. vol. 142; p. 851.
- Dronfield Brothers Limited, Oldham, England. Grinding and polishing materials. No. 74,901; Aug. 17; Gaz. vol. 145; p. 760.
- Drs. Hoag and Turbin Remedy Company, Chicago, Ill. Certain chemicals and medicines. No. 72,817; Feb. 23; Gaz. vol. 139; p. 986.
- Drummond-Ludlow Co., New York, N. Y. Stamp or label affixers and parts of same. No. 75,529; Oct. 12; Gaz. vol. 147; p. 514.
- Dubied & Cie., E., Couvet, Switzerland. Knitting-machines and parts thereof. No. 74,623; July 27; Gaz. vol. 144; p. 1086.
- Dubin, M. M., Philadelphia, Pa. Antiseptic and disinfectant compounds. No. 74,443; July 13; Gaz. vol. 144; p. 558.
- Dubuque Mattress Factory, Dubuque, Iowa. Mattresses. No. 74,089; June 15; Gaz. vol. 143; p. 860.
- Dudenhoeffer, F. P., Chicago, Ill. Straight Bourbon whisky. No. 75,075; Aug. 31; Gaz. vol. 145; p. 1246.
- Dudley, E. L., Fairport, N. Y. Baking-powder. No. 74,798; Aug. 10; Gaz. vol. 145; p. 508.
- Duggan Neel & McCollm Ltd., London, England. Artists' paints, artists' colors, varnishes, and enamels. No. 72,534; Feb. 2; Gaz. vol. 139; p. 193.
- Dumas, J., Worcester, Mass. Cough-syrup. No. 72,242; Jan. 12; Gaz. vol. 138; p. 524.
- Dumas, J., Belgium Hill, North Fayette township, Allegheny county, Pa. Remedy for certain diseases. No. 74,799; Aug. 10; Gaz. vol. 145; p. 508.
- Dunbar, B. C., Portland, Oreg. Pancake-flour. No. 75,272; Sept. 21; Gaz. vol. 146; p. 715.
- Duncan & Sons, Seattle, Wash. Certain harness and saddlery. No. 73,217; Mar. 30; Gaz. vol. 140; p. 1204.
- Dungan, Hood & Co. Inc., Philadelphia, Pa. Black, dull, and colored kid. No. 75,530; Oct. 12; Gaz. vol. 147; p. 514.
- Dunn, H. J., Oakland, Cal. Cases to receive flaxseed or the like to form a poultice. No. 76,107; Dec. 14; Gaz. vol. 149; p. 598.
- Dunn Salmon Company, Syracuse, N. Y. Shoes made of leather. No. 72,864; Mar. 2; Gaz. vol. 140; p. 250.
- Duntley, J. W., Chicago, Ill. Vacuum-cleaners. No. 73,559; Apr. 27; Gaz. vol. 141; p. 1159.
- Durable Toy and Novelty Company, Cleveland, Ohio. Toy banks. No. 73,778; May 18; Gaz. vol. 142; p. 852.
- Durafor Company, New York, N. Y. Hand fire-extinguishers. No. 74,127; June 22; Gaz. vol. 143; p. 1103.
- Duryea Manufacturing Co., New York, N. Y. Type-cleaning compound. No. 72,982; Mar. 9; Gaz. vol. 140; p. 501.
- Dwight, Upton & Well, New York, N. Y. Cigarettes and smoking-tobacco. No. 74,341; July 6; Gaz. vol. 144; p. 272.
- Dwinell-Wright Company, Boston, Mass. Blended coffee. No. 74,922; Aug. 17; Gaz. vol. 145; p. 761.
- Dwinell-Wright Company, Boston, Mass. Coffee. No. 75,042; Aug. 31; Gaz. vol. 145; p. 1245.
- Dwinell-Wright Company, Boston, Mass. Tea. No. 75,141; Sept. 7; Gaz. vol. 146; p. 252.
- Dwinell-Wright Company, Boston, Mass. Coffee. No. 76,070; Dec. 14; Gaz. vol. 149; p. 597.
- E. Hoffman Company, Chicago, Ill. Cigars. No. 75,304; Sept. 21; Gaz. vol. 146; p. 716.
- E. Kaufman Steel Company, Pittsburg, Pa. Certain metals and metal forgings. No. 74,064; June 15; Gaz. vol. 143; p. 859.
- E. Regensburg & Sons, New York, N. Y. Cigars, cigarettes, and tobacco. Nos. 72,983-4; Mar. 9; Gaz. vol. 140; p. 501.
- E. Treuhart Cigar Co., Cleveland, Ohio. Cigars. No. 73,639; May 4; Gaz. vol. 142; p. 285.
- E. C. Atkins & Company, Indianapolis, Ind.; New York, N. Y.; Memphis, Tenn.; Atlanta, Ga.; Minneapolis, Minn.; Portland, Oreg.; Seattle, Wash.; San Francisco, Cal.; Chicago, Ill., and Toronto, Ontario, Canada. Saws of all kinds. No. 74,200; June 22; Gaz. vol. 143; p. 1105.
- E. C. Harley Company, Dayton, Ohio. Soap. No. 74,444; July 13; Gaz. vol. 144; p. 558.
- E. F. Sutherland Medicine Co., Paducah, Ky. Remedies for certain diseases. No. 75,980; Nov. 30; Gaz. vol. 148; p. 1340.
- E. I. du Pont de Nemours Powder Company. (See Lafin & Rand Powder Company, assignor.)
- E. I. du Pont de Nemours Powder Company, Hoboken, N. J. High explosives. No. 74,128; June 22; Gaz. vol. 143; p. 1103.
- E. I. du Pont de Nemours Powder Company, Hoboken, N. J. Dynamite and gelatinized powder. No. 74,364; July 6; Gaz. vol. 144; p. 272.
- E. M. Bowden's Patents Syndicate Ltd., London, England. Brakes for velocipedes, &c. No. 76,108; Dec. 14; Gaz. vol. 149; p. 598.
- E. T. Fram Lock Co., Lancaster, Pa. Locks. No. 73,658; May 4; Gaz. vol. 142; p. 285.
- E. T. Fram Lock Company, Lancaster, Pa. Padlocks, night-latches, and door-locks. No. 73,616; May 4; Gaz. vol. 142; p. 284.
- E. V. Pierson & Co., Newark, N. Y. Evaporated fruits and vegetables. No. 73,860; May 25; Gaz. vol. 142; p. 1110.
- E. W. Bliss Company, Brooklyn, N. Y. Certain machinery. No. 75,362; Sept. 28; Gaz. vol. 146; p. 953.
- E. Z. Opener Bag Company, Taylorville, Ill. Paper bags. Nos. 73,817-22; May 25; Gaz. vol. 142; p. 1109.
- E. Z. Opener Bag Company, Taylorville, Ill. Paper bags. Nos. 73,834-8; May 25; Gaz. vol. 142; p. 1109.
- Eagle Paper Company, Richmond, Va. Paper bags. Nos. 75,043-5; Aug. 31; Gaz. vol. 145; p. 1245.
- Eagle Pencil Company, New York, N. Y. Lead-pencils. No. 74,585; July 27; Gaz. vol. 144; p. 1085.
- Eagle Pencil Company, New York, N. Y. Lead-pencils. No. 74,722; Aug. 3; Gaz. vol. 145; p. 252.
- Eagle Pencil Company, New York, N. Y. Automatic penknives. No. 75,333; Sept. 21; Gaz. vol. 146; p. 716.
- Eagle Pencil Company, New York, N. Y. Pencil-point protectors, lumber-leads, crayons, &c. No. 75,393; Sept. 28; Gaz. vol. 146; p. 954.
- Eagle Pencil Company, New York, N. Y. Compasses and dividers. No. 75,470; Oct. 5; Gaz. vol. 147; p. 232.
- East Hartford Manufacturing Company, Burnside, Conn. Writing, printing, and book paper. No. 75,115; Sept. 7; Gaz. vol. 146; p. 251.
- East Hartford Manufacturing Company, Burnside, Conn. Writing, printing, ledger, parchment, bond, and book paper. No. 75,682; Nov. 2; Gaz. vol. 148; p. 275.
- East Tennessee Feed Co., Knoxville, Tenn. Seed-grain and hay. No. 72,357; Jan. 19; Gaz. vol. 138; p. 764.
- Eastern Dynamite Company, Kenil, N. J. Blasting-machines and electric batteries. No. 73,039; Mar. 9; Gaz. vol. 140; p. 503.
- Eastlack, C. C., York, Pa. Felt roofing. Nos. 72,148-9; Jan. 5; Gaz. vol. 138; p. 252.
- Eastman Kodak Co., Rochester, N. Y. Certain chemicals. No. 73,062; Mar. 16; Gaz. vol. 140; p. 751.



*Alphabetical list of registrants of trade-marks—Continued.*

- Eberhard Faber Pencil Co., New York, N. Y. Lead-pencils, penholders, and pencil-point protectors. No. 73,468; Apr. 20; Gaz. vol. 141; p. 863.
- Eberhard Manufacturing Company, Cleveland, Ohio. Certain harness parts. No. 74,445; July 13; Gaz. vol. 144; p. 558.
- Ebling Company, New York, N. Y. Non-alcoholic carbonated beverage. No. 75,900; Nov. 23; Gaz. vol. 148; p. 1083.
- Eckert, A. V., New Orleans, La. Blended tea. No. 73,277; Apr. 6; Gaz. vol. 141; p. 282.
- Eckert, J. J., Philadelphia, Pa. Cough-drops. No. 72,839; Mar. 2; Gaz. vol. 140; p. 249.
- Eckert, W. A., Buffalo, N. Y. Sheet-metal articles. No. 73,705; May 11; Gaz. vol. 142; p. 564.
- Economy Electric Company, Brooklyn, N. Y. Certain electric appliances. No. 73,040; Mar. 9; Gaz. vol. 140; p. 503.
- Economy Electric Company, Brooklyn, N. Y. Arc-lamps. Nos. 73,195-6; Mar. 30; Gaz. vol. 140; p. 1203.
- Economy Electric Company, Brooklyn, N. Y. Arc-lamps. Nos. 73,535-6; Apr. 27; Gaz. vol. 141; p. 1158.
- Economy Electric Company, Brooklyn, N. Y. Arc-lamps. No. 73,560; Apr. 27; Gaz. vol. 141; p. 1159.
- Eddy, L. R., Elizabeth, N. J. Sash-locks. No. 75,961; Nov. 30; Gaz. vol. 148; p. 1340.
- Eddystone Manufacturing Company, Eddystone and Philadelphia, Pa. Cotton piece goods. No. 73,440; Apr. 20; Gaz. vol. 141; p. 862.
- Edelstein, W., Boston, Mass. Shoes made wholly or in part of leather. No. 72,923; Mar. 2; Gaz. vol. 140; p. 251.
- Edgar Allen & Co. Ltd., Sheffield, England. Steel. No. 74,065; June 15; Gaz. vol. 143; p. 860.
- Edinger & Company, Incorporated, Louisville, Ky. Wheat-flour. No. 74,723; Aug. 3; Gaz. vol. 145; p. 252.
- Edison Manufacturing Company, West Orange, N. J. Moving-picture films. No. 74,624; July 27; Gaz. vol. 144; p. 1086.
- Ednur Pharmacal Co., assignor to Ednur Pharmacal Company, St. Louis, Mo. Remedy for dyspepsia, biliousness, &c. No. 75,105; Aug. 31; Gaz. vol. 145; p. 1247.
- Educational Tablet Co., Benton Harbor, Mich. Tablets and blank books. No. 74,277; June 29; Gaz. vol. 143; p. 1340.
- Educational Tablet Company, Benton Harbor, Mich. Tablets, blank books, writing-paper, and envelopes. No. 74,276; June 29; Gaz. vol. 143; p. 1340.
- Edward & John Burke, Limited, Dublin, Ireland, and New York, N. Y. Stout and ale. No. 72,128; Jan. 5; Gaz. vol. 138; p. 252.
- Edward & John Burke, Limited, Dublin, Ireland, and New York, N. Y. Blended Irish whiskies, dry gin, and Jamaica rum. No. 72,150; Jan. 5; Gaz. vol. 138; p. 252.
- Edwards & Loomis Co., Chicago, Ill. Poultry feeds and pigeon feeds. No. 72,115; Jan. 5; Gaz. vol. 138; p. 252.
- Edwards, W. F., Orangeburg, S. C. Remedies for certain diseases. No. 76,041; Dec. 7; Gaz. vol. 149; p. 306.
- Edwardsville Milling Company, Edwardsville, Ill. Wheat-flour. No. 73,861; May 25; Gaz. vol. 142; p. 1110.
- Edwardsville Milling Company, Edwardsville, Ill. Wheat-flour. No. 74,129; June 22; Gaz. vol. 143; p. 1103.
- Edwardsville Milling Company, Edwardsville, Ill. Wheat-flour. No. 74,902; Aug. 17; Gaz. vol. 145; p. 760.
- Edwardsville Milling Company, Edwardsville, Ill. Wheat-flour. No. 75,562; Oct. 19; Gaz. vol. 147; p. 767.
- Edwardsville Milling Company, Edwardsville, Ill. Wheat-flour. No. 75,891; Nov. 23; Gaz. vol. 148; p. 1082.
- Edwin Clapp & Son, Inc., East Weymouth, Mass. Boots and shoes made of leather, rubber, and canvas. No. 75,659; Nov. 2; Gaz. vol. 148; p. 275.
- Ehrich & Graetz, Berlin, Germany. Certain heating and lighting apparatus. No. 75,660; Nov. 2; Gaz. vol. 148; p. 275.
- Eisenstein, J., Coatesville, N. J. Plating compound. No. 74,110; June 15; Gaz. vol. 143; p. 861.
- Eisner, M., New York, N. Y. Malt extracts. No. 74,183; June 22; Gaz. vol. 143; p. 1105.
- Eisner, Spier & Rauner, New York, N. Y. Embroidered emblems. No. 72,268; Jan. 12; Gaz. vol. 138; p. 524.
- Elder-Harrison Company, Baltimore, Md. Spanish sherry. Nos. 72,218-19; Jan. 12; Gaz. vol. 138; p. 523.
- Elder-Harrison Company, Baltimore, Md. Straight Scotch malt whisky. No. 73,937; June 1; Gaz. vol. 143; p. 254.
- Elder & Johnston Company, Dayton, Ohio. Flannels. No. 72,269; Jan. 12; Gaz. vol. 138; p. 524.
- Electric Launch Co., Bayonne, N. J. Motor-boats. No. 74,278; June 29; Gaz. vol. 143; p. 1340.
- Electrical Accessories Co., New York, N. Y. Incandescent electric lamps. No. 75,363; Sept. 28; Gaz. vol. 146; p. 953.
- Electrocarbon A.-G., Niederglatt, near Zurich, Switzerland. Electrodes and carbons for lamps. Nos. 75,116-17; Sept. 7; Gaz. vol. 146; p. 251.
- Eletto Company, New York, N. Y. Sachet-powder. No. 73,617; May 4; Gaz. vol. 142; p. 284.
- Eletto Company, New York, N. Y. Talcum powder. No. 73,823; May 25; Gaz. vol. 142; p. 1109.
- Eletto Company, New York, N. Y. Liquid green soap. No. 73,938; June 1; Gaz. vol. 143; p. 254.
- Eletto Company, New York, N. Y. Toilet ammonia. No. 74,407; July 13; Gaz. vol. 144; p. 557.
- Eletto Company, New York, N. Y. Sea-salt for the bath. No. 74,408; July 13; Gaz. vol. 144; p. 557.
- Eletto Company, New York, N. Y. Toilet water. No. 74,409; July 13; Gaz. vol. 144; p. 557.
- Eletto Company, New York, N. Y. Toilet cream. No. 74,410; July 13; Gaz. vol. 144; p. 557.
- Eletto Company, New York, N. Y. Toilet water. No. 74,411; July 13; Gaz. vol. 144; p. 557.
- Eletto Company, New York, N. Y. Soap. No. 74,446; July 13; Gaz. vol. 144; p. 558.
- Eletto Company, New York, N. Y. Antiseptic and healing solution. No. 74,800; Aug. 10; Gaz. vol. 145; p. 508.
- Eletto Company, New York, N. Y. Sachet-powder. No. 74,801; Aug. 10; Gaz. vol. 145; p. 508.
- Eletto Company, New York, N. Y. Cologne. No. 74,802; Aug. 10; Gaz. vol. 145; p. 508.
- Eletto Company, New York, N. Y. Toilet water. No. 74,964; Aug. 24; Gaz. vol. 145; p. 1017.
- Eletto Company, New York, N. Y. Dentifrice and antiseptic. No. 76,109; Dec. 14; Gaz. vol. 149; p. 598.
- Elgin Milk & Cream Company, Elgin, Ill. Evaporated milk. No. 75,686; Nov. 2; Gaz. vol. 148; p. 276.
- Elk Eye Milling Company, McConnellsville, Ohio. Wheat-flour. No. 72,220; Jan. 12; Gaz. vol. 138; p. 523.
- Elk Knitting Mills Company, Philadelphia, Pa. Hosiery. No. 72,129; Jan. 5; Gaz. vol. 138; p. 252.
- Elliot, Ottenheimer & Elliot, Baltimore, Md. Cigars. No. 75,305; Sept. 21; Gaz. vol. 146; p. 716.
- Elliott Grocery Company, Logansport, Ind. Canned fruits, vegetables, and pork and beans. No. 73,513; Apr. 27; Gaz. vol. 141; p. 1157.
- Ellis & Co., W. L., Baltimore, Md. Raw oysters. No. 72,484; Jan. 26; Gaz. vol. 138; p. 961.
- Ellsworth, E., Detroit, Mich. Cough-drops. No. 72,792; Feb. 23; Gaz. vol. 139; p. 985.
- Elloesser Heyemann Co., San Francisco, Cal. Overalls, jumpers, blouses, coats, &c. No. 74,923; Aug. 17; Gaz. vol. 145; p. 761.
- Ely, M. S., New York, N. Y. Certain clothing. No. 73,743; May 18; Gaz. vol. 142; p. 851.
- Ely & Walker Dry Goods Co., St. Louis, Mo. Hosiery. No. 75,273; Sept. 21; Gaz. vol. 146; p. 715.
- Ely & Walker Dry Goods Co., St. Louis, Mo. Hosiery, ladies' muslin underwear, night-gowns, and pajamas. No. 75,370; Sept. 28; Gaz. vol. 146; p. 953.
- Ely & Walker Dry Goods Co., St. Louis, Mo. Overalls. No. 76,228; Dec. 28; Gaz. vol. 149; p. 1116.
- Emergency Laboratories, New York, N. Y. Remedy for eruptive skin diseases. No. 74,724; Aug. 3; Gaz. vol. 145; p. 252.
- Emil Grossman Company, New York, N. Y. Spark-plugs. No. 74,903; Aug. 17; Gaz. vol. 145; p. 760.
- Emil Grossman Company, New York, N. Y. Spark-plugs. No. 74,924; Aug. 17; Gaz. vol. 145; p. 761.
- Emil Grossman Company, New York, N. Y. Spark-plugs. No. 75,563; Oct. 19; Gaz. vol. 147; p. 767.
- Emil Weissbrod and Sons, Greenfield, Mass. Pocket-books and card-cases. No. 72,549; Feb. 2; Gaz. vol. 139; p. 194.
- Empire Automobile Tire Co., Trenton, N. J. Rubber tires. No. 75,204; Sept. 14; Gaz. vol. 146; p. 501.
- Empire Cracker & Candy Company, Spokane, Wash. Crackers, biscuit, cookies, cakes, and snaps. No. 74,005; June 8; Gaz. vol. 143; p. 558.
- Empire Rubber Mfg. Co., Trenton, N. J.; Chicago, Ill.; New York, N. Y., and Boston, Mass. Rubber machinery packing, hose, and belting. No. 76,143; Dec. 21; Gaz. vol. 149; p. 829.
- Enebuske, C. J., New York, N. Y. Cleansing preparation. No. 73,659; May 4; Gaz. vol. 142; p. 285.
- Enebuske, C. J., New York, N. Y. Antiseptic preparation. No. 73,973; June 8; Gaz. vol. 143; p. 557.
- Enebuske, C. J., New York, N. Y. Antiseptic preparations for general use as a mouth-wash. No. 74,279; June 29; Gaz. vol. 143; p. 1340.
- Engel, A. W., Chicago, Ill. Imitation diamonds. No. 75,661; Nov. 2; Gaz. vol. 148; p. 275.
- Engel and Schmid Br'w'g Co., Fountain Springs, Pa. Lager-beer, weiss-beer, ale, and porter. No. 73,939; June 1; Gaz. vol. 143; p. 254.
- English & Mersick Co., New Haven, Conn. Automobile wind-shields. No. 75,076; Aug. 31; Gaz. vol. 145; p. 1246.
- Enos Adams Co., Bennington, Vt. Soaps. No. 73,839; May 25; Gaz. vol. 142; p. 1109.
- Enos Company, New York, N. Y. Non-metallic lighting-shades. No. 73,675; May 11; Gaz. vol. 142; p. 563.
- Ensign-Bickford Company, Simsbury, Conn. Fuse. Nos. 73,766-8; May 11; Gaz. vol. 142; p. 563.
- Ensign-Bickford Company, Simsbury, Conn. Fuse for igniting gunpowder and other explosives. Nos. 74,342-3; July 6; Gaz. vol. 144; p. 272.
- Enterprise Enamel Co., Bellaire, Ohio. Enameled metal articles. No. 72,709; Feb. 16; Gaz. vol. 139; p. 725.
- Enterprise Manufacturing Company, Akron, Ohio. Certain harness parts. No. 72,243; Jan. 12; Gaz. vol. 138; p. 524.
- Enterprise Optical Mfg. Co., Chicago, Ill. Moving-picture machines. No. 75,205; Sept. 14; Gaz. vol. 146; p. 501.
- Eppens Smith Company, Hoboken, N. J., and New York, N. Y. Tea. No. 76,088; Dec. 14; Gaz. vol. 149; p. 597.
- Epstein, M. L., Fort Worth, Tex. Cigars. No. 75,824; Nov. 16; Gaz. vol. 148; p. 829.
- Ernecke & Salmstein Co., Chicago, Ill. Paints, varnishes, lacquers, &c. No. 75,306; Sept. 21; Gaz. vol. 146; p. 716.
- Ericksen, O. L., Matawan, N. J. Complexion-wash. No. 72,485; Jan. 26; Gaz. vol. 138; p. 961.
- Esbenecht Chemical Laboratories, Portland, Oreg. Antiseptic lotion for the skin. No. 72,517; Feb. 2; Gaz. vol. 139; p. 193.
- Esleack Manufacturing Co., Turners Falls, Mass. Writing-paper. No. 73,561; Apr. 27; Gaz. vol. 141; p. 1159.
- Esnault-Pelterie, R. A. C., Boulogne, France. Tires and inner and outer tubes therefor. No. 72,358; Jan. 19; Gaz. vol. 138; p. 764.

*Alphabetical list of registrants of trade-marks—Continued.*

- Essanay Film Mfg. Co., Chicago, Ill. Motion-picture films and projecting-machines therefor. No. 74,518; July 20; Gaz. vol. 144; p. 813.
- Estes, L. W., Washington, D. C. Preparation of herbs. No. 72,840; Mar. 2; Gaz. vol. 140; p. 249.
- Etching Shop, Chicago, Ill. Acid-resists and etching solutions. No. 73,763; May 18; Gaz. vol. 142; p. 851.
- Everett E. Belding Company, Springfield, Mass. Silk, linen, and mercerized-cotton shoe-laces. No. 75,564; Oct. 19; Gaz. vol. 147; p. 767.
- Evershed & Vignoles, Ltd., London, England. Instruments for measuring electrical resistances. No. 75,683; Nov. 2; Gaz. vol. 148; p. 275.
- Ex-Cel-O Company, Montgomery, Ala. Syrups and extracts for making non-alcoholic carbonated beverages. No. 76,144; Dec. 21; Gaz. vol. 149; p. 829.
- Excel Electric Heating Co., Newark, N. J., and New York, N. Y. Certain electrical goods. No. 72,710; Feb. 16; Gaz. vol. 139; p. 725.
- Excelsior Quilting Co., New York, N. Y. Lamb's-wool interlining. No. 73,161; Mar. 23; Gaz. vol. 140; p. 997.
- Exposito, E., New York, N. Y. Electric dry batteries. No. 74,764; Aug. 10; Gaz. vol. 145; p. 507.
- F. Bissell Company, Toledo, Ohio. Certain electrical supplies. No. 73,134; Mar. 16; Gaz. vol. 140; p. 753.
- F. A. Foster & Co. (See Foster & Co., F. A., assignor.)
- F. A. Koch & Co., New York, N. Y. Corkscrews and certain cutlery. No. 75,364; Sept. 23; Gaz. vol. 146; p. 953.
- F. B. Washburn & Co., Brockton, Mass. Certain foods. No. 74,447; July 13; Gaz. vol. 144; p. 558.
- F. H. Roberts Company, Boston, Mass. Chocolates and bonbons. No. 75,741; Nov. 9; Gaz. vol. 148; p. 566.
- F. O. Pierce Co., New York, N. Y. Waterproofing coating. No. 75,841; Nov. 23; Gaz. vol. 148; p. 1081.
- F. S. Walton Company, Camden, N. J., and Philadelphia, Pa. Neat's-foot oil. No. 75,565; Oct. 19; Gaz. vol. 147; p. 767.
- F. T. Lord Polish Co., Somerville, Mass. Metal-polish. No. 73,002; Mar. 9; Gaz. vol. 140; p. 502.
- F. T. Lord Polish Co., Somerville, Mass. Metal-polish. No. 73,188; Mar. 30; Gaz. vol. 140; p. 1203.
- F. T. Lord Polish Co., Somerville, Mass. Silver and gold polish. No. 73,278; Apr. 6; Gaz. vol. 141; p. 282.
- Faber, A. W., Stein, Germany. Lead-pencils and colored pencils. No. 72,359; Jan. 19; Gaz. vol. 138; p. 764.
- Faber, A. W., Stein, Germany. Eraser india-rubber and ink and pencil india-rubber erasers. No. 72,360; Jan. 19; Gaz. vol. 138; p. 764.
- Faber, A. W., Stein, Germany. Rubber bands. No. 73,469; Apr. 20; Gaz. vol. 141; p. 863.
- Faber, A. W., Stein, Germany. Rubber bands. No. 76,110; Dec. 14; Gaz. vol. 149; p. 598.
- Faber, A. W., Stein, near Nuremberg, and Berlin, Germany. Pencils and pencil-erasers. No. 76,049; Dec. 7; Gaz. vol. 149; p. 307.
- Faber, E., New York, N. Y. Steel-polisher of abrasive rubber. No. 72,746; Feb. 16; Gaz. vol. 139; p. 726.
- Faelchle, C. F., Columbus, Ohio. Bread. No. 75,118; Sept. 7; Gaz. vol. 146; p. 251.
- Fairchild Bros. & Foster, New York, N. Y. Food for infants and invalids. No. 73,585; May 4; Gaz. vol. 142; p. 283.
- Fairchild Bros. & Foster, New York, N. Y. Milk food. No. 75,566; Oct. 19; Gaz. vol. 147; p. 767.
- Fairfield Mfg. Co. Inc., Guthrie, Okla., and Philadelphia, Pa. Blood-tonic for horses. No. 73,974; June 8; Gaz. vol. 143; p. 557.
- Fairmount Electric and Manufacturing Company, Philadelphia, Pa. Electric-conduit fittings. No. 72,865; Mar. 2; Gaz. vol. 140; p. 250.
- Falk, J. S., Washington, D. C. Tonic tablets. No. 72,452; Jan. 26; Gaz. vol. 138; p. 960.
- Falk Tobacco Co., New York, N. Y., and Richmond, Va. Smoking-tobacco. No. 74,344; July 6; Gaz. vol. 144; p. 272.
- Falk Tobacco Company, New York, N. Y., and Richmond, Va. Smoking-tobacco. No. 72,765; Feb. 16; Gaz. vol. 139; p. 727.
- Fambach, J. G., Cleveland, Ohio. Remedies for certain diseases. No. 74,090; June 15; Gaz. vol. 143; p. 860.
- Farbenfabriken of Elberfeld Company, New York, N. Y. Bactericide and antiseptic. No. 73,891; June 1; Gaz. vol. 143; p. 253.
- Farbenfabriken of Elberfeld Company, New York, N. Y. Antiseptic. No. 73,892; June 1; Gaz. vol. 143; p. 253.
- Farbenfabriken of Elberfeld Company, New York, N. Y. Sedative and hypnotic. No. 74,091; June 15; Gaz. vol. 143; p. 860.
- Farbenfabriken of Elberfeld Company, New York, N. Y. Antipyretic, antineuralgic, and antirheumatic. No. 74,092; June 15; Gaz. vol. 143; p. 860.
- Farbenfabriken of Elberfeld Company, New York, N. Y. Blennostatic and internal antiseptic. No. 75,307; Sept. 21; Gaz. vol. 146; p. 716.
- Farber & Wittenberg, Chicago, Ill. Matzoth, being disks of unleavened bread. No. 75,394; Sept. 28; Gaz. vol. 146; p. 954.
- Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Chemical yellowish oily preparation. No. 74,365; July 6; Gaz. vol. 144; p. 272.
- Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Remedy for certain diseases. No. 75,046; Aug. 31; Gaz. vol. 145; p. 1245.
- Farbwerke vormals Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Medical compound. No. 74,280; June 29; Gaz. vol. 143; p. 1341.
- Farmers' Preserving Company, Rising Sun, Del. Canned fruits and vegetables, fruit-puddings, and catsup. No. 74,803; Aug. 10; Gaz. vol. 145; p. 508.
- Farnum, C. E., San Francisco, Cal. Liniments for external use. No. 73,326; Apr. 13; Gaz. vol. 141; p. 561.
- Farnum, G. C., Chicago, Ill. Leather boots and shoes. No. 72,711; Feb. 16; Gaz. vol. 139; p. 725.
- Farr and Bailey Manufacturing Company, Camden, N. J. Floor-coverings. No. 74,499; July 20; Gaz. vol. 144; p. 813.
- Farrington Manufacturing Company, Portland, Me., and Boston, Mass. Eyeglass-cases and jewelry-boxes. No. 74,725; Aug. 3; Gaz. vol. 145; p. 252.
- Father Morrissey Medicine Company Limited, Chatham, New Brunswick, Canada. Tonic. No. 76,111; Dec. 14; Gaz. vol. 149; p. 598.
- Faul, H., Baltimore, Md. Cough remedy. No. 74,412; July 13; Gaz. vol. 144; p. 557.
- Feazel, W., Anniston, Ala. Chemical compound for making soap. No. 73,922; June 1; Gaz. vol. 143; p. 254.
- Federal Chemical Co., Louisville, Ky. Fertilizers. No. 72,244; Jan. 12; Gaz. vol. 138; p. 524.
- Federal Chemical Company, Louisville, Ky. Fertilizers. No. 72,361; Jan. 19; Gaz. vol. 138; p. 764.
- Federal Packing Co., Enosburg Falls, Vt., and New York, N. Y. Sterilized evaporated milk. No. 72,682; Feb. 9; Gaz. vol. 139; p. 459.
- Fee-Crayton Hardwood Lumber Company, Newport and Little Rock, Ark. Lumber and logs. No. 73,824; May 25; Gaz. vol. 142; p. 1109.
- Fellows & Hopkins, Middletown, N. Y. Wrapping-machines. No. 76,145; Dec. 21; Gaz. vol. 149; p. 829.
- Fendrich, H., Evansville, Ind. Cigars. Nos. 72,270-4; Jan. 12; Gaz. vol. 138; p. 524.
- Fendrich, H., Evansville, Ind. Cigars. No. 72,615; Feb. 9; Gaz. vol. 139; p. 457.
- Fendrich, H., Evansville, Ind. Cigars. No. 73,136; Mar. 16; Gaz. vol. 140; p. 753.
- Fendrich, H., Evansville, Ind. Cigars. No. 74,726; Aug. 3; Gaz. vol. 145; p. 252.
- Fendrich, H., Evansville, Ind. Cigars. Nos. 74,804-5; Aug. 10; Gaz. vol. 145; p. 508.
- Fendrich, H., Evansville, Ind. Cigars. No. 74,925; Aug. 17; Gaz. vol. 145; p. 761.
- Fendrich, H., Evansville, Ind. Cigars. No. 74,983; Aug. 24; Gaz. vol. 145; p. 1018.
- Fenneberg, G. G., Toledo, Ohio. Card game. No. 73,441; Apr. 20; Gaz. vol. 141; p. 862.
- Fenster, F., Buffalo, N. Y. Tea, coffees, spices, wheat-flour, and butter. No. 75,432; Oct. 5; Gaz. vol. 147; p. 231.
- Feore & Co., K. A., New York, N. Y. Ladies' and children's undershirts, nightgowns, and dressing-sacks. No. 75,854; Nov. 23; Gaz. vol. 148; p. 1081.
- Ferd. Brenner Lbr. Co., Cincinnati, Ohio. Lumber. No. 75,642; Oct. 26; Gaz. vol. 147; p. 1032.
- Ferguson, C. A., Memphis, Tenn. Preparation for neuralgia, rheumatism, indigestion, &c. No. 75,782; Nov. 16; Gaz. vol. 148; p. 827.
- Ferguson Waterproof Co., St. Louis, Mo. Oiled clothing. No. 75,365; Sept. 28; Gaz. vol. 146; p. 953.
- Fernandez, M. L., Habana, Cuba. Cigars. No. 75,157; Sept. 7; Gaz. vol. 146; p. 252.
- Fernier, V. E., San Antonio, Tex. Chewing-gum. Nos. 72,116-7; Jan. 5; Gaz. vol. 138; p. 252.
- Fernyak Machine Company, Mansfield, Ohio. Flue-expanders and flue-cutters. No. 74,366; July 6; Gaz. vol. 144; p. 272.
- Fiber Horseshoe Company, Pittsburg, Pa. Horseshoes. No. 75,662; Nov. 2; Gaz. vol. 148; p. 275.
- Fiber Tooth Brush Company, Rochester, N. Y. Tooth-brushes and parts therefor. No. 76,204; Dec. 28; Gaz. vol. 149; p. 1115.
- Fiebert, C., New York, N. Y. Bug and roach destroyer. No. 72,793; Feb. 23; Gaz. vol. 139; p. 985.
- Figge-Doyle Co., Milwaukee, Wis. Spirituous liquors. No. 75,226; Sept. 14; Gaz. vol. 146; p. 502.
- Filbert Paving & Construction Co., Wilmington, Del. Composition roadway and paving cement. No. 75,185; Sept. 14; Gaz. vol. 146; p. 501.
- Fink, H. J., New York, N. Y. Brooms and brushes. No. 73,327; Apr. 13; Gaz. vol. 141; p. 561.
- Fink Brothers, Seattle, Wash. Roasted coffee. No. 75,077; Aug. 31; Gaz. vol. 145; p. 1246.
- Fischer, C. R., Jersey City Heights, N. J. Dressings for belts and pulley-wheels. No. 72,422; Jan. 26; Gaz. vol. 138; p. 959.
- Fish & Lenox Co., Newark, N. J. Butter. No. 72,902; Mar. 2; Gaz. vol. 140; p. 251.
- Fisher Bros. Paper Company, Fort Wayne, Ind. Roofing-paper. No. 75,047; Aug. 31; Gaz. vol. 145; p. 1245.
- Fisher, F., San Francisco, Cal. Medicines for Bright's disease, all kidney troubles, and diabetes. No. 73,149; Mar. 23; Gaz. vol. 140; p. 997.
- Fisheropathic College Association, Denver, Colo. Syrup for making a tonic beverage. No. 72,326; Jan. 19; Gaz. vol. 138; p. 763.
- Fiske, J. P. B., New York, N. Y. Bricks, tiles, terra-cotta, wall-coping, and chimney-pots. Nos. 75,531-2; Oct. 12; Gaz. vol. 147; p. 514.
- Fitchburg Pin Co., Fitchburg, Mass. Hair-pins and combs. No. 76,193; Dec. 28; Gaz. vol. 149; p. 1115.
- Fitz Gerald, J. P., New Haven, Conn. Preparation used as a protective against moths, &c. No. 75,395; Sept. 28; Gaz. vol. 146; p. 954.
- Fitzpatrick, W. D., Yorkville, W. Va. Vegetable compound used as a catarrh remedy. No. 73,328; Apr. 13; Gaz. vol. 141; p. 561.
- Flavell Co., Asbury Park, N. J. Beef-cracklings. No. 73,764; May 18; Gaz. vol. 142; p. 851.
- Fleckenstein, H., Portland, Ore. Blend of rye whiskies. No. 72,597; Feb. 2; Gaz. vol. 139; p. 195.
- Fleeman, J. R., St. Johnsville, N. Y. Knit drawers and undershirts. No. 74,367; July 6; Gaz. vol. 144; p. 722.
- Fleischl & Son, E., New York, N. Y. Certain foods. No. 75,901; Nov. 23; Gaz. vol. 148; p. 1083.



*Alphabetical list of registrants of trade-marks—Continued.*

- Fletcher Coffee & Spice Co., Little Rock, Ark. Coffee. No. 74,249; June 29; Gaz. vol. 143; p. 1340.  
 Flexible Belt Lacing Company, Grand Rapids, Mich. Tools for attaching belt-hooks to belts. No. 72,924; Mar. 2; Gaz. vol. 140; p. 251.  
 Florence Wagon Works, Florence, Ala. Wagons. Nos. 75,934-5; Nov. 30; Gaz. vol. 148; p. 1339.  
 Florsheim Shoe Company, Chicago, Ill. Waterproof boots and shoes made of leather. No. 73,586; May 4; Gaz. vol. 142; p. 283.  
 Flushovalve Company, New York, N. Y. Bowls, cocks, valves, and fittings. No. 76,194; Dec. 28; Gaz. vol. 149; p. 1115.  
 Flynn, F. A., Fall River, Mass. Blended whisky. No. 73,175; Mar. 23; Gaz. vol. 140; p. 998.  
 Fogg & Hires Company, Salem, N. J. Canned vegetables and fruits. No. 73,041; Mar. 9; Gaz. vol. 140; p. 503.  
 Follmer, Clogg & Co., New York, N. Y. Canes, parasols, and umbrellas. No. 72,275; Jan. 12; Gaz. vol. 138; p. 524.  
 Follmer, Clogg & Co., New York, N. Y. Umbrellas. No. 75,078; Aug. 31; Gaz. vol. 145; p. 1246.  
 Foote, M. C. W., Plainfield, N. J. Dolls. No. 74,368; July 6; Gaz. vol. 144; p. 272.  
 Forbes Company, Philadelphia, Pa. Sterilizers. No. 74,448; July 13; Gaz. vol. 144; p. 558.  
 Forchheimer, H., New Orleans, La. Lumber. No. 75,308; Sept. 21; Gaz. vol. 146; p. 716.  
 Ford & Carpenter, Providence, R. I. Jewelry for personal adornment. No. 72,188; Jan. 5; Gaz. vol. 138; p. 254.  
 Ford Manufacturing Co., Chicago, Ill. Sheathing-paper. No. 73,940; June 1; Gaz. vol. 143; p. 254.  
 Ford Manufacturing Co., Chicago, Ill. Certain named construction material. No. 75,013; Aug. 24; Gaz. vol. 145; p. 1019.  
 Ford Manufacturing Co., Chicago, Ill. Asphalt roofing. No. 75,396; Sept. 28; Gaz. vol. 146; p. 954.  
 Ford Manufacturing Company, Chicago, Ill. Sheathing-paper. Nos. 75,783-4; Nov. 16; Gaz. vol. 148; p. 827.  
 Ford Motor Company, Detroit, Mich. Automobiles and their parts. No. 74,530; July 20; Gaz. vol. 144; p. 814.  
 Ford Motor Company, Detroit, Mich. Explosive-engines and their parts. No. 74,765; Aug. 10; Gaz. vol. 145; p. 507.  
 Forest City Oyster Company, Cleveland, Ohio. Fresh oysters. No. 73,442; Apr. 20; Gaz. vol. 141; p. 862.  
 Forster, T. V., New York, N. Y. Fire-extinguishers. No. 75,742; Nov. 9; Gaz. vol. 148; p. 566.  
 Fort Smith Coffee Company. (See Fort Smith Commission Company, assignor.)  
 Fort Smith Coffee Company, Fort Smith, Ark. Blended coffee. No. 73,456; Apr. 20; Gaz. vol. 141; p. 862.  
 Fort Smith Coffee Company, Fort Smith, Ark. Coffee. No. 75,620; Oct. 26; Gaz. vol. 147; p. 1031.  
 Fort Smith Commission Company, assignor to Fort Smith Coffee Company, Fort Smith, Ark. Coffee. No. 72,453; Jan. 26; Gaz. vol. 138; p. 960.  
 Fort Wayne Electric Works, Fort Wayne, Ind. Electrical regulators for electrical apparatus. No. 76,177; Dec. 21; Gaz. vol. 149; p. 830.  
 Fort Wayne Refrigerator Company, Fort Wayne, Ind. Refrigerators. No. 72,454; Jan. 26; Gaz. vol. 138; p. 960.  
 Fortuna-Werke Albert Hirth, Stuttgart, Germany. Measuring machines or instruments. No. 73,162; Mar. 23; Gaz. vol. 140; p. 997.  
 Foster, Caldara & Co., Fort Smith, Ark. Flavoring extracts and canned tomatoes. No. 74,609; July 27; Gaz. vol. 144; p. 1085.  
 Foster & Co., F. A., New York, N. Y., assignor to F. A. Foster & Co., Inc. Certain textiles. Nos. 75,533-4; Oct. 12; Gaz. vol. 147; p. 514.  
 Foster, W. N., Clarendon, Ark. Tonic. No. 72,189; Jan. 5; Gaz. vol. 138; p. 254.  
 Foundry Specialty Company, Cincinnati, Ohio. Flux used in casting metals. No. 75,249; Sept. 14; Gaz. vol. 146; p. 503.  
 Fountain Medicine Company, Fountain, N. C. Remedy for coughs, colds, consumption, and bronchitis. No. 75,158; Sept. 7; Gaz. vol. 146; p. 252.  
 Fox River Butter Company, Aurora, Ill. Eggs. No. 72,088; Jan. 5; Gaz. vol. 138; p. 251.  
 Francis Company, Inc., Baltimore, Md. Hats and caps. No. 75,988; Dec. 7; Gaz. vol. 149; p. 305.  
 Franco-American Ferment Company, New York, N. Y. Extract of malt combined with lactic ferment. No. 73,003; Mar. 9; Gaz. vol. 140; p. 502.  
 Franco-American Ferment Company, New York, N. Y. Remedy for certain diseases. No. 75,621; Oct. 26; Gaz. vol. 147; p. 1031.  
 Frank Mossberg Company, Attleboro, Mass. Metal reels and spools. No. 73,137; Mar. 16; Gaz. vol. 140; p. 753.  
 Frank Richards Laundry Supply Co., New York, N. Y. Wheat-starch for laundry purposes. No. 75,842; Nov. 23; Gaz. vol. 148; p. 1081.  
 Frank Richards Laundry Supply Co., New York, N. Y. Corn-starch for laundry purposes. No. 75,843; Nov. 23; Gaz. vol. 148; p. 1081.  
 Frank & Sons, B., New York, N. Y. Sole and upper leather and tanned hides. No. 72,423; Jan. 26; Gaz. vol. 138; p. 959.  
 Frank W. Williams Company, Chicago, Ill. Wooden picture-frames. No. 76,071; Dec. 14; Gaz. vol. 149; p. 597.  
 Franke, W., Reno, Nev. Bread. No. 75,227; Sept. 14; Gaz. vol. 146; p. 502.  
 Franklin, H. B., Chicago, Ill. Cigars. No. 75,535; Oct. 12; Gaz. vol. 147; p. 514.  
 Franklin MacVeagh & Co., Chicago, Ill. Cider, root-beer, sarsaparilla, &c. No. 76,112; Dec. 14; Gaz. vol. 149; p. 598.  
 Franklin Sugar Refining Company, Philadelphia, Pa. Sugar and syrups. No. 73,797; May 18; Gaz. vol. 142; p. 852.  
 Fred Douglass Shoe Co., Haverhill, Mass. Leather boots and shoes. No. 72,404; Jan. 26; Gaz. vol. 138; p. 959.  
 Fred. Eckart Packing Company, Fort Wayne, Ind. Compound of lard and tallow. No. 75,743; Nov. 9; Gaz. vol. 148; p. 566.  
 Fred. Eckart Packing Company, Fort Wayne, Ind. Certain foods. No. 75,113; Dec. 14; Gaz. vol. 149; p. 598.  
 Fred Medart Manufacturing Company, St. Louis, Mo. Exercising apparatus. No. 73,640; May 4; Gaz. vol. 142; p. 285.  
 Frederick Stearns & Co., Detroit, Mich. Perfumes, toilet cream, toilet water, hair-tonic, and face-powder. No. 73,618; May 4; Gaz. vol. 142; p. 284.  
 Frederick Stearns & Co., Detroit, Mich. Hemostatic, astringent, and cardiac stimulants. No. 74,806; Aug. 10; Gaz. vol. 145; p. 508.  
 Frederick Stearns & Co., Detroit, Mich. Serums. No. 74,807; Aug. 10; Gaz. vol. 145; p. 508.  
 Frederick Stearns & Co., Detroit, Mich. Baby and face powder, perfumery, and face-cream. No. 74,855; Aug. 17; Gaz. vol. 145; p. 759.  
 Frederick Stearns & Co., Detroit, Mich. Laxative cathartic medicinal preparations. No. 76,249; Dec. 28; Gaz. vol. 149; p. 1116.  
 Freeman Maxfield Co., Chicago, Ill. Caps. No. 73,840; May 25; Gaz. vol. 142; p. 1109.  
 Freeman, W. S., Philadelphia, Pa. Textile cuffs. No. 73,081; Mar. 16; Gaz. vol. 140; p. 751.  
 Freihof Vienna Baking Company, Philadelphia, Pa. Bread. No. 74,531; July 20; Gaz. vol. 144; p. 814.  
 Fricke, A., Yonkers, N. Y. Polishing-cloth. No. 73,106; Mar. 16; Gaz. vol. 140; p. 752.  
 Fricke, A., Yonkers, N. Y. House-cloths and face-cloths. No. 74,369; July 6; Gaz. vol. 144; p. 272.  
 Friedman, J., New York, N. Y. Buttonhole-gimp. No. 75,844; Nov. 23; Gaz. vol. 148; p. 1081.  
 Friedman & Krieger, New York, N. Y. Certain textiles. Nos. 73,514-16; Apr. 27; Gaz. vol. 141; pp. 1157-8.  
 Frisbee Honey Co., Denver, Colo. Honey. No. 74,041; June 15; Gaz. vol. 143; p. 859.  
 Fritz Handrich & Sons, New York, N. Y. Blend of straight rye whiskies. No. 72,221; Jan. 12; Gaz. vol. 138; p. 523.  
 Fritzsche & Co., F., Hamburg, Germany. Salves, ointments, powders, and tablets for coughs and colds. No. 74,856; Aug. 17; Gaz. vol. 145; p. 759.  
 Frommann, F. A., Kansas City, Mo. Catamenial sacks, bandages, or napkins and sanitary belts. No. 74,370; July 6; Gaz. vol. 144; p. 273.  
 Frost Mfg. Co., Kenosha, Wis. Certain plumbing-supplies. No. 72,866; Mar. 2; Gaz. vol. 140; p. 250.  
 Fuerst Bros. & Co., New York, N. Y. Certain chemicals. No. 76,178; Dec. 21; Gaz. vol. 149; p. 830.  
 Fuller Co., V. C., Frankfort, Ind. Candy. No. 73,706; May 11; Gaz. vol. 142; p. 564.  
 Fuller Co., V. C., Frankfort, Ind. Candy. No. 73,941; June 1; Gaz. vol. 143; p. 254.  
 Fuller-Greene Company, Boston, Mass. Chocolates. No. 72,089; Jan. 5; Gaz. vol. 138; p. 251.  
 Fuller Manufacturing Company, Beaver Falls, Pa. Germicide, disinfectant, and deodorant. No. 75,048; Aug. 31; Gaz. vol. 145; p. 1245.  
 Fussell, M. T., Washington, D. C. Ice-cream, ices, and frozen custards. No. 74,449; July 13; Gaz. vol. 144; p. 558.  
 G. Heileman Brewing Co., La Crosse, Wis. Beer. No. 74,371; July 6; Gaz. vol. 144; p. 273.  
 G. Sommers & Co., St. Paul, Minn. Fire-crackers. No. 75,643; Oct. 26; Gaz. vol. 147; p. 1032.  
 G. B. Borsalino fu Lazzaro & Co., Alessandria, Italy. Men's hats. No. 75,763; Nov. 16; Gaz. vol. 148; p. 827.  
 G. C. Y. Leather Company, Philadelphia, Pa. Enameled and patent leather. No. 74,548; July 20; Gaz. vol. 144; p. 814.  
 G. C. Y. Leather Company, Philadelphia, Pa. Enameled and patent leather. No. 75,902; Nov. 23; Gaz. vol. 148; p. 1083.  
 G. F. Heublein & Bro., Hartford, Conn. Straight rye whisky. No. 73,138; Mar. 16; Gaz. vol. 140; p. 753.  
 G. F. Heublein & Bro., Hartford, Conn. Cigars. No. 74,549; July 20; Gaz. vol. 144; p. 814.  
 G. & L. Trunk Company, Pittsburg, Pa. Trunks, satchels, portfolios, and pocket-books. No. 75,397; Sept. 28; Gaz. vol. 146; p. 954.  
 G. & L. Chemical Company, St. Louis, Mo. Corn remedies. No. 75,603; Nov. 2; Gaz. vol. 148; p. 275.  
 G. P. Putnam's Sons, New York, N. Y. Books of poetry and prose. No. 73,798; May 18; Gaz. vol. 142; p. 852.  
 G. W. Carrick Company, New York, N. Y. Remedy for indigestion and disorders of metabolism resulting therefrom. No. 73,825; May 25; Gaz. vol. 142; p. 1109.  
 Gallia Silk Mills, Portland, Me. Silk piece goods. No. 73,082; Mar. 16; Gaz. vol. 140; p. 751.  
 Galt & Co., W. M., Washington, D. C. Wheat-flour. No. 75,697; Nov. 2; Gaz. vol. 148; p. 276.  
 Galvin, J., New York, N. Y. Hats and caps. No. 73,841; May 25; Gaz. vol. 142; p. 1109.  
 Gangelhoff Bros., Minneapolis, Minn. Mattresses. Nos. 75,334-5; Sept. 21; Gaz. vol. 146; p. 717.  
 Gangelhoff Bros., Minneapolis, Minn. Mattresses. No. 75,664; Nov. 2; Gaz. vol. 148; p. 275.  
 Gantt Mfg. Co., Macon, Ga. Plows. No. 74,450; July 13; Gaz. vol. 144; p. 558.  
 Garcia & Bros., F., New York, N. Y. Cigars. No. 72,925; Mar. 2; Gaz. vol. 140; p. 251.  
 Garcia & Vega, New York, N. Y. Cigars. No. 72,818; Feb. 23; Gaz. vol. 139; p. 986.  
 Garcia & Vega, New York, N. Y. Cigars. No. 73,291; Apr. 6; Gaz. vol. 141; p. 282.  
 Garcia & Vega, New York, N. Y. Cigars. Nos. 73,707-10; May 11; Gaz. vol. 142; p. 564.  
 Garcia & Vega, New York, N. Y. Cigars. No. 74,808; Aug. 10; Gaz. vol. 145; p. 508.  
 Garcia & Vega, New York, N. Y. Cigars. No. 75,744; Nov. 9; Gaz. vol. 148; p. 506.



*Alphabetical list of registrants of trade-marks—Continued.*

- Garcia & Vega, New York, N. Y. Cigars. No. 76,023; Dec. 7; Gaz. vol. 149; p. 306.
- Gardiner Pharmacal Co., New York, N. Y. Uterine tonic. No. 74,656; July 27; Gaz. vol. 144; p. 1087.
- Gardiner Pharmacal Co., New York, N. Y. Tonic medicine. No. 75,567; Oct. 19; Gaz. vol. 147; p. 767.
- Garfinkle, J., Washington, D. C., New York, N. Y., and Paris, France. Corsets and corset-waists. No. 72,276; Jan. 12; Gaz. vol. 138; p. 524.
- Gartner, Sons & Co., New York, N. Y. Ribbons. No. 75,398; Sept. 28; Gaz. vol. 146; p. 954.
- Garwood Electric Company, Garwood, N. J. Electric motors and dynamos and parts for same. No. 76,114; Dec. 14; Gaz. vol. 149; p. 598.
- Gas Power Company, New York, N. Y. Gas-producers. No. 74,372; July 6; Gaz. vol. 144; p. 273.
- Gate City Seed Co., Keokuk, Iowa. Agricultural seeds. No. 74,012; June 8; Gaz. vol. 143; p. 558.
- Gaudenzi & Co., A. de, New York, N. Y. Printed books. No. 74,130; June 22; Gaz. vol. 143; p. 1103.
- Gaupp, R., New York, N. Y. Medicine for the relief of painful menses. No. 72,841; Mar. 2; Gaz. vol. 140; p. 249.
- Gavin, M., Beltinge, Herne Bay, England. Toilet preparations. No. 74,809; Aug. 10; Gaz. vol. 145; p. 508.
- Gedney, J. W., New York, N. Y. Remedy for certain diseases. No. 75,309; Sept. 21; Gaz. vol. 146; p. 716.
- Gehring, G. F., Louisville, Ky. Hair-tonic. No. 72,190; Jan. 5; Gaz. vol. 138; p. 254.
- Geiger-Tinney Co., Indianapolis, Ind. Coffee. No. 72,794; Feb. 23; Gaz. vol. 139; p. 985.
- Gelbrunk, I., New York, N. Y. Cotton piece goods. Nos. 75,471-2; Oct. 5; Gaz. vol. 147; p. 232.
- Gelbrunk, I., New York, N. Y. Cotton piece goods. No. 75,665; Nov. 2; Gaz. vol. 148; p. 275.
- Gem Garment Company, Indianapolis, Ind. Ladies' dress-suits, shirt-waists, dress-waists, and dress-skirts. No. 72,550; Feb. 2; Gaz. vol. 139; p. 194.
- General Electrical Display Company, New York, N. Y. Picture and sign projecting apparatus. No. 75,366; Sept. 28; Gaz. vol. 146; p. 953.
- Genesee Electric Manufacturing Company, Flint, Mich. Portable electrical batteries. No. 75,310; Sept. 21; Gaz. vol. 146; p. 716.
- Genesee Valley Milk Products Company, Rochester, N. Y. Condensed milk. No. 75,274; Sept. 21; Gaz. vol. 146; p. 715.
- Geneva Cutlery Co., Geneva, N. Y. Knives, forks, shears, scissors, and razors. No. 74,173; June 22; Gaz. vol. 143; p. 1104.
- Geo. Bieler Sons Co., Cincinnati, Ohio. Distillate of malt and rye with fruit-juices. No. 75,936; Nov. 30; Gaz. vol. 148; p. 1339.
- Geo. Borgfeldt & Co., New York, N. Y. Perfumery. No. 75,666; Nov. 2; Gaz. vol. 148; p. 275.
- Geo. Borgfeldt & Co., New York, N. Y. Electric portables, electroliers, and electric lamps. No. 75,892; Nov. 23; Gaz. vol. 148; p. 1082.
- Geo. D. Wetherill & Co., Inc., Philadelphia, Pa. Enamel paints. No. 75,802; Nov. 16; Gaz. vol. 148; p. 823.
- Geo. E. Keith Company, Brockton, Mass. Shoe-laces. No. 73,197; Mar. 30; Gaz. vol. 140; p. 1203.
- Geo. E. Keith Company, Brockton, Mass. Shoe-laces. No. 73,765; May 18; Gaz. vol. 142; p. 851.
- Geo. H. Fuller and Son Co., Pawtucket, R. I. Certain jewelry and precious-metal articles. No. 73,517; Apr. 27; Gaz. vol. 141; p. 1158.
- Geo. H. Strietmann's Sons Company, Cincinnati, Ohio. Sugar wafers. No. 75,698; Nov. 2; Gaz. vol. 148; p. 276.
- Geo. Lewis & Co., Inc., Chicago, Ill. Tea. No. 72,327; Jan. 19; Gaz. vol. 138; p. 763.
- Geo. N. Marshall Co., Phoenix, Ariz. Ter. Dairy-cheese. No. 72,309; Jan. 19; Gaz. vol. 138; p. 763.
- Geo. T. Stage Co., Inc., Frankfurt, Ky. Whisky. No. 76,229; Dec. 28; Gaz. vol. 149; p. 1116.
- George G. London Manufacturing Company, Lynn, Mass. Instep-supporter or arch-prop. No. 73,236; Apr. 6; Gaz. vol. 141; p. 281.
- George La Monte & Son, Nutley, N. J., and New York, N. Y. Safety-paper. No. 75,186; Sept. 14; Gaz. vol. 146; p. 501.
- German-American Company, Draper, N. C. Cotton blankets. No. 76,230; Dec. 28; Gaz. vol. 149; p. 1116.
- Gerst, W., Nashville, Tenn. Beer. No. 73,942; June 1; Gaz. vol. 143; p. 254.
- Geo. W. Torrey, Boston, Mass. Straight rye whisky and blended whiskies. No. 75,311; Sept. 21; Gaz. vol. 146; p. 716.
- Gerstendorfer Bros., New York, N. Y. Certain paints. No. 73,799; May 18; Gaz. vol. 142; p. 852.
- Gerstendorfer Bros., New York, N. Y. Enamel paints. No. 76,205; Dec. 28; Gaz. vol. 149; p. 1115.
- Getsinger, E. C., Washington, D. C. Compound of oxidized essential oils and carbohydrates. No. 72,712; Feb. 16; Gaz. vol. 139; p. 725.
- Gholstin-Cunningham Spring Bed Co., Atlanta, Ga. Mattresses. No. 74,586; July 27; Gaz. vol. 144; p. 1085.
- Gholstin-Cunningham Spring Bed Co., Atlanta, Ga. Mattresses. No. 74,848; Aug. 10; Gaz. vol. 145; p. 509.
- Gibson Canning Co., Gibson City, Ill. Canned vegetables, pork and beans, lye hominy, &c. No. 73,915; June 1; Gaz. vol. 143; p. 253.
- Gibson Well Water Co., Mineral Wells, Tex. Natural mineral waters. No. 74,650; July 27; Gaz. vol. 144; p. 1087.
- Giesecke-D'Oench-Hays Shoe Company, St. Louis, Mo. Leather shoes. No. 75,142; Sept. 7; Gaz. vol. 146; p. 252.
- Giffen & Co., L. F., Fowler, Cal. Raisins. Nos. 75,505-6; Oct. 12; Gaz. vol. 147; p. 513.
- Giffen & Co., L. F., Fowler, Cal. Raisins. Nos. 75,568-9; Oct. 19; Gaz. vol. 147; p. 767.
- Gilbert Mfg. Co., New York, N. Y. Ladies' outer skirts, petticoats, shirt-waists, &c. No. 76,072; Dec. 14; Gaz. vol. 149; p. 597.
- Gildersleeve, F. V. B., New York, N. Y. Pharmaceutical preparation. No. 73,893; June 1; Gaz. vol. 143; p. 253.
- Gilka, A., Berlin, Germany. Certain beverages. No. 76,042; Dec. 7; Gaz. vol. 149; p. 306.
- Gill Brothers Company, Steubenville, Ohio. Certain glassware. No. 74,550; July 20; Gaz. vol. 144; p. 814.
- Gill Brothers Company, Steubenville, Ohio. Glass lamp-chimneys and lantern-globes. No. 74,727; Aug. 3; Gaz. vol. 145; p. 252.
- Gill Brothers Company, Steubenville, Ohio. Certain glass articles. No. 74,810; Aug. 10; Gaz. vol. 145; p. 508.
- Gillinder & Sons, Inc., Philadelphia, Pa. Prismatic electric reflectors. No. 75,049; Aug. 31; Gaz. vol. 145; p. 1245.
- Gillon, P. H., Milford, Mass. Nerve-tonic. No. 75,050; Aug. 31; Gaz. vol. 145; p. 1245.
- Gillott & Sons, J., Birmingham, England. Steel pens. No. 74,587; July 27; Gaz. vol. 144; p. 1085.
- Gilman, S. D., Boston, Mass. Chocolates and all kinds of candies. No. 74,451; July 13; Gaz. vol. 144; p. 558.
- Gimbel Brothers, Incorporated, Philadelphia, Pa. Corsets. No. 74,766; Aug. 10; Gaz. vol. 145; p. 507.
- Ginochio & Sons, L., New York, N. Y. Whisky. No. 74,767; Aug. 10; Gaz. vol. 145; p. 507.
- Ginsberg, W., New York, N. Y. Wigs for human beings and dolls. No. 72,277; Jan. 12; Gaz. vol. 138; p. 525.
- Ginter Grocery Company, Boston, Mass. Straight malt whisky. No. 72,652; Feb. 9; Gaz. vol. 139; p. 458.
- Giolamo, A., Latrobe, Pa. Remedy for rheumatism. No. 75,766; Nov. 16; Gaz. vol. 148; p. 827.
- Girvin & Eyre, San Francisco, Cal. Coke. No. 76,115; Dec. 14; Gaz. vol. 149; p. 598.
- Glamorgan Pipe & Foundry Co., Norfolk county, Va. Castings and iron pipes. Nos. 73,083-4; Mar. 16; Gaz. vol. 140; p. 751.
- Glenn Shoe Company, Tampa, Fla. Leather boots and shoes. No. 75,312; Sept. 21; Gaz. vol. 146; p. 716.
- Globe Stove and Range Company, Kokomo, Ind. Stoves and ranges. No. 73,004; Mar. 9; Gaz. vol. 140; p. 502.
- Gloversville Auto Glove Co., Gloversville, N. Y. Automobile leather gloves and gauntlets. No. 73,550; Apr. 27; Gaz. vol. 141; p. 1159.
- Goepfert, E., Pittsburg, Pa. Noodles. No. 76,073; Dec. 14; Gaz. vol. 149; p. 597.
- Gold, J. I., Newark, N. J. Nets for the hair. No. 74,066; June 15; Gaz. vol. 143; p. 860.
- Goldberg, D., New York, N. Y. Jewelry. No. 75,570; Oct. 19; Gaz. vol. 147; p. 767.
- Goldberg, I., New York, N. Y. Stockinet and jersey coats, leggings, overgaiters, and sandals. No. 73,329; Apr. 13; Gaz. vol. 141; p. 561.
- Golden Gate Packing Company, San Jose, Cal. Canned fruits and vegetables. No. 76,206; Dec. 28; Gaz. vol. 149; p. 1115.
- Goldenberg, M., Washington, D. C. Certain fancy goods, furnishings, and notions. No. 74,221; June 29; Gaz. vol. 143; p. 1339.
- Goldenberg, M., Washington, D. C. Certain textiles. No. 74,222; June 29; Gaz. vol. 143; p. 1339.
- Goldenberg, M., Washington, D. C. Leather boots and shoes. No. 74,223; June 29; Gaz. vol. 143; p. 1339.
- Golding & Bogart, Lawrenceville, N. J. Chocolates. No. 74,312; July 6; Gaz. vol. 144; p. 271.
- Goldsberg, W., New York, N. Y. Garment-fasteners. No. 74,857; Aug. 17; Gaz. vol. 145; p. 759.
- Goldschmidt, H., Los Angeles, Cal. California port-wine and California sherry-wine. No. 72,310; Jan. 19; Gaz. vol. 138; p. 763.
- Goldschmidt, H., Los Angeles, Cal. California grape-brandy. No. 72,311; Jan. 19; Gaz. vol. 138; p. 763.
- Goldschmidt Thermit Company, New York, N. Y. Trade periodicals. No. 72,362; Jan. 19; Gaz. vol. 138; p. 764.
- Goldsmith, C. A., York, Pa. Chemical to remove odors from tobacco. No. 75,051; Aug. 31; Gaz. vol. 145; p. 1245.
- Goldstaub, A., Hamburg, Germany. Composition for preventing windows from becoming clouded or frosted. No. 72,960; Mar. 9; Gaz. vol. 140; p. 501.
- Goldstein, M., Chicago, Ill. Corn, wart, bunion, callous, and ingrown-toe-nail paste. No. 73,064; Mar. 16; Gaz. vol. 140; p. 751.
- Goldwater, H., New York, N. Y. Cloaks, dresses, and coats. No. 74,373; July 6; Gaz. vol. 144; p. 273.
- Goldwater, H., New York, N. Y. Cloaks, dresses, and coats. No. 74,519; July 20; Gaz. vol. 144; p. 513.
- Gonzalez and Sanchez Co., Jacksonville, Fla. Cigars. No. 76,024; Dec. 7; Gaz. vol. 149; p. 306.
- Good Roads Company of America, Philadelphia, Pa. Chemical compound for dressing roads. No. 73,292; Apr. 6; Gaz. vol. 141; p. 283.
- Goodall, R. W., Versailles, Ohio. Remedy for coughs, colds, and hoarseness. No. 72,191; Jan. 5; Gaz. vol. 138; p. 254.
- Goodwin & Barbour, Lynn, Mass. Medicinal preparation compounded from herbs. No. 75,367; Sept. 28; Gaz. vol. 146; p. 953.
- Goodyear Tire and Rubber Company, Akron, Ohio. Solid and pneumatic rubber vehicle-tires. No. 72,867; Mar. 2; Gaz. vol. 140; p. 250.
- Gordon & Ferguson, St. Paul, Minn. Leather gloves and leather mittens. No. 72,278; Jan. 12; Gaz. vol. 138; p. 525.
- Gordon, N., New York, N. Y. Ladies' waists, shirt-waists, and shirt-waist suits. No. 73,587; May 4; Gaz. vol. 142; p. 283.
- Gordon & Pagel Bread Co., Detroit, Mich. Bread. No. 73,744; May 18; Gaz. vol. 142; p. 851.
- Gorham Rubber Company, San Francisco, Cal. Rubber hose. No. 74,520; July 20; Gaz. vol. 144; p. 813.
- Gothoffer and Damm, New York, N. Y. Ladies', misses', and children's coats and outer suits. No. 74,687; Aug. 3; Gaz. vol. 145; p. 251.
- Gotto, O. W., Michigan City, Ind. Bituminous coal. No. 73,085; Mar. 16; Gaz. vol. 140; p. 751.
- Gottschall, A. H., Harrisburg, Pa. Medicines for certain diseases. No. 73,976; June 8; Gaz. vol. 143; p. 557.
- Goulds Manufacturing Company, Seneca Falls, N. Y. Pumps. No. 74,281; June 29; Gaz. vol. 143; p. 1341.
- Gowdy, V. M., Campbellsville, Ky. Chewing and smoking tobacco, cigars, and cigarettes. No. 75,052; Aug. 31; Gaz. vol. 145; p. 1245.



*Alphabetical list of registrants of trade-marks—Continued.*

- Graham, E. K., Philadelphia, Pa. Hosiery and undershirts and drawers. No. 72,181; Jan. 5; Gaz. vol. 138; p. 253.
- Graham, Hinkley & Co., New York, N. Y. Fiber of the ixtle species. No. 76,043; Dec. 7; Gaz. vol. 149; p. 306.
- Grandmont, E. de, New York, N. Y. Coutils, batistes, satins, tricot, &c. No. 75,846; Nov. 23; Gaz. vol. 148; p. 1081.
- Grasselli Chemical Company, Cleveland, Ohio. Arsenate of lead. No. 75,981; Nov. 30; Gaz. vol. 148; p. 1340.
- Graton & Knight Manufacturing Company, Worcester, Mass. Belting-leather. No. 74,811; Aug. 10; Gaz. vol. 145; p. 508.
- Graton & Knight Manufacturing Company, Worcester, Mass. Leather for belting. No. 75,159; Sept. 7; Gaz. vol. 146; p. 252.
- Graux, L., Paris, France. Granulated laxative pharmaceutical product. No. 75,847; Nov. 23; Gaz. vol. 148; p. 1081.
- Gray, A. J., Pine Bluff, Ark. Liniment. No. 75,250; Sept. 14; Gaz. vol. 146; p. 503.
- Graziadei, L., New York, N. Y. Leather dressings and polishes. No. 72,713; Feb. 16; Gaz. vol. 139; p. 725.
- Great Western Cereal Company, Jersey City, N. J., and Chicago, Ill. Cornmeal, pearled hominy, and hominy-grits. No. 75,622; Oct. 26; Gaz. vol. 147; p. 1031.
- Great Western Cereal Company, Chicago, Ill. Cattle feed. No. 75,745; Nov. 9; Gaz. vol. 148; p. 566.
- Great Western Feed Company, St. Louis, Mo. Cereal stock food. No. 73,779; May 18; Gaz. vol. 142; p. 852.
- Green, W. R., New York, N. Y., and Newark, N. J. Vacuum cleaning apparatus. No. 72,766; Feb. 16; Gaz. vol. 139; p. 727.
- Greenbaum, J., Berlin, Germany. Kinematographs, films, and checking-valves. No. 74,374; July 6; Gaz. vol. 144; p. 273.
- Greenberg, M., Philadelphia, Pa. Flavoring extract for tobacco. No. 74,131; June 22; Gaz. vol. 143; p. 1103.
- Greenberg & Son, J., New York, N. Y. Men's and young men's outer suits and overcoats and trousers. No. 75,848; Nov. 23; Gaz. vol. 148; p. 1081.
- Greene, G. G., Warren, Pa. Hame-fasteners. No. 75,001; Aug. 24; Gaz. vol. 145; p. 1018.
- Greenfield's Sons & Co., E., New York, N. Y. Candies. No. 75,433; Oct. 5; Gaz. vol. 147; p. 231.
- Greenhut & Company, New York, N. Y. Ladies' dress-waists. No. 74,768; Aug. 10; Gaz. vol. 145; p. 507.
- Gregory Medicine Co., Little Rock, Ark. Antiseptic medicinal oil. No. 72,496; Jan. 26; Gaz. vol. 138; p. 961.
- Grendel Mills, Greenwood, S. C. Sheetings. No. 75,119; Sept. 7; Gaz. vol. 146; p. 251.
- Gribben & Keyser, Moundsville, W. Va. Cleaning compound. No. 75,536; Oct. 12; Gaz. vol. 147; p. 514.
- Griffin, C. D., San Marcos, Tex. Hair-tonic. No. 73,065; Mar. 16; Gaz. vol. 140; p. 751.
- Griffin & Skelley Company, San Francisco, Cal. Canned and dried fruits and canned vegetables. No. 72,795; Feb. 23; Gaz. vol. 139; p. 985.
- Griffin & Skelley Company, San Francisco, Cal. Canned vegetables. Nos. 72,903-4; Mar. 2; Gaz. vol. 140; p. 251.
- Griffin & Skelley Company, San Francisco, Cal. Dried and evaporated fruits and canned fruits. No. 72,961; Mar. 9; Gaz. vol. 140; p. 501.
- Griffin & Skelley Company, San Francisco, Cal. Canned and evaporated fruits. No. 73,005; Mar. 9; Gaz. vol. 140; p. 502.
- Griffin & Skelley Company, San Francisco, Cal. Dried fruits. No. 73,443; Apr. 20; Gaz. vol. 141; p. 862.
- Griffon Company, Philadelphia, Pa., and New York, N. Y. Worsted, woolen, and cotton mixed piece goods. No. 73,424; Apr. 20; Gaz. vol. 141; p. 861.
- Griggs, Cooper & Co., St. Paul, Minn. Sago, tapioca, and rice. No. 74,965; Aug. 24; Gaz. vol. 145; p. 1017.
- Griggs, Cooper & Co., St. Paul, Minn. Spices and mustard. No. 74,966; Aug. 24; Gaz. vol. 145; p. 1017.
- Griggs, Cooper & Co., St. Paul, Minn. Olive salad and corn-starch. No. 75,937; Nov. 30; Gaz. vol. 148; p. 1339.
- Griggs, Cooper & Co., St. Paul, Minn. Certain foods. No. 75,989; Dec. 7; Gaz. vol. 149; p. 305.
- Griggs, Cooper & Co., St. Paul, Minn. Baking-soda. No. 76,089; Dec. 14; Gaz. vol. 149; p. 597.
- Groom, A. R., Hereford, England. Weather-strips. No. 72,767; Feb. 16; Gaz. vol. 139; p. 727.
- Gross, J., Galesburg, Ill. Overall, jackets, and men's working-shirts. No. 72,616; Feb. 9; Gaz. vol. 139; p. 457.
- Grossmith, T. H., New York, N. Y. Flavorings. No. 75,803; Nov. 16; Gaz. vol. 148; p. 828.
- Grunert, F., Chicago, Ill. Full-cream cheese. No. 73,943; June 1; Gaz. vol. 143; p. 254.
- Gruszka, K., Chicago, Ill. Mouth-washes and toothache medicines. No. 75,767; Nov. 16; Gaz. vol. 148; p. 827.
- Guarantee Salve Co., Houston, Tex. Salve. No. 75,623; Oct. 26; Gaz. vol. 147; p. 1031.
- Gude Bros. Co., Washington, D. C. Flowers and plants and floral decorations made of natural flowers. No. 74,812; Aug. 10; Gaz. vol. 145; p. 508.
- Gulport Grocery Co., Gulfport, Miss. Corn-chops. Nos. 74,588-9; July 27; Gaz. vol. 144; p. 1085.
- Gulport Grocery Co., Gulfport, Miss. Stock food. Nos. 74,590-1; July 27; Gaz. vol. 144; p. 1085.
- Gulport Grocery Co., Gulfport, Miss. Stock food. No. 74,728; Aug. 3; Gaz. vol. 145; p. 252.
- Gunther Confection & Chocolate Co., Chicago, Ill. Confectionery. No. 74,942; Aug. 24; Gaz. vol. 145; p. 1017.
- Gunzenhauser, C., Lancaster, Pa. Bread. No. 73,711; May 11; Gaz. vol. 142; p. 564.
- Guthmann, Carpenter & Telling, Chicago, Ill. Leather shoes. No. 74,610; July 27; Gaz. vol. 144; p. 1085.
- Gutta-Percha & Rubber Manufacturing Company, New York, N. Y. Fire-hose. No. 72,535; Feb. 2; Gaz. vol. 139; p. 193.
- Guy G. Major Company, Toledo, Ohio. Castor-oil for medicinal purposes. No. 72,245; Jan. 12; Gaz. vol. 138; p. 529.
- Guymon Petro Mer. Co., Hutchinson, Kans. Canned fruits and vegetables. No. 72,683; Feb. 9; Gaz. vol. 139; p. 459.
- Guymon Petro Mer. Co., Hutchinson, Kans. Canned fruits and vegetables. No. 72,927; Mar. 2; Gaz. vol. 140; p. 251.
- H. Belfield Co., Philadelphia, Pa. Valves. No. 76,207; Dec. 28; Gaz. vol. 149; p. 1115.
- H. Black Company, Cleveland, Ohio. Dresses. Nos. 74,225-6; June 29; Gaz. vol. 143; p. 1339.
- H. Mueller Manufacturing Company, Decatur, Ill. Handles for self-closing bibs and faucets. No. 72,222; Jan. 12; Gaz. vol. 138; p. 523.
- H. Traiser & Company, Incorporated, Boston, Mass. Cigars. No. 75,267; Sept. 14; Gaz. vol. 146; p. 503.
- H. Wetter Manufacturing Co., Memphis, Tenn. Certain heating apparatus. No. 74,729; Aug. 3; Gaz. vol. 145; p. 252.
- H. Wetter Manufacturing Co., Memphis, Tenn. Stoves, ranges, furnaces, steam and hot-water heaters, and parts thereof. No. 75,160; Sept. 7; Gaz. vol. 146; p. 252.
- H. B. Clafin Company, New York, N. Y. Certain pharmaceutical preparations. No. 75,251; Sept. 14; Gaz. vol. 146; p. 503.
- H. C. Cole Milling Company, Chester, Ill. Wheat-flour. No. 72,130; Jan. 5; Gaz. vol. 138; p. 252.
- H. F. Hemingway & Co., Baltimore, Md. Canned and fresh oysters. No. 73,444; Apr. 20; Gaz. vol. 141; p. 862.
- H. J. Nice Company, assignor to C. E. Van Duzee, Minneapolis, Minn. Toy flying-machine. No. 76,231; Dec. 28; Gaz. vol. 149; p. 1116.
- H. K. Mulford Company, Philadelphia, Pa. Aperient, laxative, and cathartic in tablet form. No. 75,601; Oct. 26; Gaz. vol. 147; p. 1031.
- H. M. Van Deusen Whip Co., Westfield, Mass. Whips. No. 74,492; July 13; Gaz. vol. 144; p. 559.
- H. & W. Company, Newark, N. J. Corset-waists. No. 74,926; Aug. 17; Gaz. vol. 145; p. 761.
- H. & W. Company, Newark, N. J. Corsets, corset-waists, brassieres, and underwaists. No. 76,208; Dec. 28; Gaz. vol. 149; p. 1115.
- H. W. Crooker Shoe Co., Boston, Mass. Leather boots and shoes. No. 72,151; Jan. 5; Gaz. vol. 138; p. 253.
- H. W. Gossard Company, Chicago, Belvidere, and Dixon, Ill., and Elkhart, Ind. Corset-steels. No. 75,785; Nov. 16; Gaz. vol. 148; p. 827.
- H. W. Johns-Manville Company, New York, N. Y. Felt roofing saturated with asphalt. No. 75,053; Aug. 31; Gaz. vol. 145; p. 1245.
- H. W. Johns-Manville Company, New York, N. Y. Wall-plaster. No. 75,537; Oct. 12; Gaz. vol. 147; p. 514.
- Haas, Baruch & Co., Los Angeles, Cal. Straight whisky. No. 72,312; Jan. 19; Gaz. vol. 138; p. 763.
- Haas, Baruch & Co., Los Angeles, Cal. Certain foods. No. 75,228; Sept. 14; Gaz. vol. 146; p. 502.
- Haas-Lieber Grocery Co., St. Louis, Mo. Certain foods. No. 73,923; June 1; Gaz. vol. 143; p. 254.
- Haase, R., Baltimore, Md. Remedy for liver and kidney complaints. No. 72,842; Mar. 2; Gaz. vol. 140; p. 249.
- Habbar, S., New Orleans, La. Remedy for certain diseases. No. 74,282; June 29; Gaz. vol. 143; p. 1341.
- Häberer Brüder, Rodewisch im Vogtland, Germany. Woven and knitted fabrics made from waste silk. No. 73,426; Apr. 20; Gaz. vol. 141; p. 861.
- Haddad, A. F., New York, N. Y. Perfumery, powder, and toilet cream. No. 74,132; June 22; Gaz. vol. 143; p. 1103.
- Hageman & Sons, F., Dayton, Ohio. Leather shoes. No. 73,490; Apr. 27; Gaz. vol. 141; p. 1157.
- Haggerty Refining Company, New York, N. Y. Boiler compounds. No. 75,825; Nov. 16; Gaz. vol. 148; p. 829.
- Haglund, M. N., Minneapolis, Minn. Non-alcoholic beverages and syrups therefor. No. 74,551; July 20; Gaz. vol. 144; p. 814.
- Haines & Burry, Fort Wayne, Ind. Remedy for throat and lung troubles. No. 75,079; Aug. 31; Gaz. vol. 145; p. 1246.
- Haines, H. H., Fort Wayne, Ind. Suppository remedies for leucorrhea and women's kindred ailments. No. 75,602; Oct. 26; Gaz. vol. 147; p. 1031.
- Hale-Halsell Grocery Co., McAlester, Durant, Coalgate, and Muskogee, Okla. Canned fruits, vegetables, and oysters. No. 73,518; Apr. 27; Gaz. vol. 141; p. 1158.
- Hall, Bayliss & Co., London, England. Preparation for cleaning and polishing glass. No. 73,293; Apr. 6; Gaz. vol. 141; p. 283.
- Hall & Carpenter, Philadelphia, Pa. Solder. No. 74,133; June 22; Gaz. vol. 143; p. 1103.
- Hall, E. B., Charleston, S. C. Liniments. No. 73,330; Apr. 13; Gaz. vol. 141; p. 561.
- Hall, F. A., New York, N. Y. Mattresses and cushions. No. 75,161; Sept. 7; Gaz. vol. 146; p. 252.
- Hall-Miller Company, Chicago, Ill. Antiseptic tablets. No. 72,192; Jan. 5; Gaz. vol. 138; p. 254.
- Hall, S. D., Salt Lake City, Utah. Remedies for coughs, cankers, and diphtheria. No. 76,179; Dec. 21; Gaz. vol. 149; p. 830.
- Halpen Green & Co., Philadelphia, Pa. Certain goods. No. 74,042; June 29; Gaz. vol. 143; p. 859.
- Halsey J. Tibbals Chemical Manufacturing Company, Philadelphia, Pa. Line-supports. No. 74,813; Aug. 10; Gaz. vol. 145; p. 508.
- Hamburger Bros., St. Louis, Mo. Men's leather shoes. No. 74,227; June 29; Gaz. vol. 143; p. 1339.
- Hamburger Bros., St. Louis, Mo. Leather shoes. No. 75,434; Oct. 5; Gaz. vol. 147; p. 231.
- Hamburger, Wolf & Weiller, Baltimore, Md. Shirts, drawers, and pajamas. No. 75,990; Dec. 7; Gaz. vol. 149; p. 305.
- Hamilton Silver Company, Muncie, Ind. Tension-spring shears. No. 73,944; June 1; Gaz. vol. 143; p. 254.



*Alphabetical list of registrants of trade-marks—Continued.*

- Hammel, Riglander & Co., New York, N. Y. Cabinets for watch-glasses. No. 73,123; Mar. 16; Gaz. vol. 140; p. 753.
- Hammerbacher, G. H., Baltimore, Md. Powder for external application in the treatment of skin diseases. No. 72,487; Jan. 26; Gaz. vol. 138; p. 861.
- Hammond, B., Fishkill Landing, N. Y. Mixed white paint especially prepared for use upon greenhouses. No. 75,571; Oct. 19; Gaz. vol. 147; p. 767.
- Hammond Distilling Co., Hammond, Ind., and Chicago, Ill. Denatured alcohol. No. 75,962; Nov. 30; Gaz. vol. 148; p. 1340.
- Hampton, H. J., Tampa, Fla. Cancer remedy. No. 74,093; June 15; Gaz. vol. 143; p. 860.
- Handler, M. J., St. Joseph, Mo. Blended whisky. No. 75,399; Sept. 28; Gaz. vol. 146; p. 954.
- Hanley-Hoye Co., Providence, R. I. Straight rye whisky. No. 74,201; June 22; Gaz. vol. 143; p. 1105.
- Hanlon & Goodman Co., New York, N. Y. Paint-brushes. Nos. 74,228-9; June 29; Gaz. vol. 143; p. 1339.
- Hanning, G., Hamburg-Uhlenhorst, Germany. Insect-repellants. No. 72,328; Jan. 19; Gaz. vol. 138; p. 763.
- Hanover Vulcanite Co., New York, N. Y. Motor-cycle driving-belts. No. 74,814; Aug. 10; Gaz. vol. 145; p. 508.
- Hanson & Van Winkle Co., Newark, N. J. Chemicals for removing scale, rust, and sand from iron and steel. No. 73,470; Apr. 20; Gaz. vol. 141; p. 863.
- Harder, E. J., New York, N. Y. Men's, women's, and children's hosiery. No. 75,507; Oct. 12; Gaz. vol. 147; p. 513.
- Hardisty-Williams Milling Company, Columbus, Ohio. Wheat-flour. No. 75,080; Aug. 31; Gaz. vol. 145; p. 1246.
- Harris Medicine Company, Sloux City, Iowa. Remedy for female weakness or diseases. No. 75,162; Sept. 7; Gaz. vol. 146; p. 252.
- Harrison & Co., W. H., Cincinnati, Ohio. Blended coffee. No. 74,858; Aug. 17; Gaz. vol. 145; p. 759.
- Harrison Safety Boiler Works, Philadelphia, Pa. Ice-breakers. No. 73,445; Apr. 20; Gaz. vol. 141; p. 862.
- Harrison Safety Boiler Works, Philadelphia, Pa. Feed-water heaters, purifiers, and receivers, steam, oil, &c., separators. No. 73,780; May 18; Gaz. vol. 142; p. 852.
- Harrison Safety Boiler Works, Philadelphia, Pa. Feed-water heaters and purifiers and receivers. No. 75,416; Sept. 28; Gaz. vol. 146; p. 955.
- Harrison Safety Boiler Works, Philadelphia, Pa. Steam-separators, oil-separators, oil-ammonia separators, and receiver-separators. No. 75,684; Nov. 2; Gaz. vol. 148; p. 276.
- Hart Milling & Power Company, Flushing, Mich. Wheat-flour. No. 72,090; Jan. 5; Gaz. vol. 138; p. 251.
- Hartford Rubber Works Co., Hartford, Conn. Rubber wheel-tires. No. 76,209; Dec. 28; Gaz. vol. 149; p. 1115.
- Hartford Rubber Works Company, Hartford, Conn. Wheel-tires composed of rubber or rubber and fabric. No. 73,006; Mar. 9; Gaz. vol. 140; p. 502.
- Hartford Rubber Works Company, Hartford, Conn., and New York, N. Y. Wheel-tires composed of rubber or rubber and fabric. No. 73,042; Mar. 9; Gaz. vol. 140; p. 503.
- Hartford Rubber Works Company, Hartford, Conn., and New York, N. Y. Rubber wheel-tires. No. 73,363; Apr. 13; Gaz. vol. 141; p. 562.
- Hartford Rubber Works Company, Hartford, Conn., and New York, N. Y. Tires of rubber or rubber and fabric. No. 76,146; Dec. 21; Gaz. vol. 149; p. 829.
- Hartlands Company, Limited, Hartlands Post-Office, Jamaica. Fresh fruits. No. 72,584; Feb. 2; Gaz. vol. 139; p. 195.
- Hartman Pharmacy, Fort Wayne, Ind. Medicinal remedy for corns, bunions, and warts. No. 75,603; Oct. 26; Gaz. vol. 147; p. 1031.
- Hartung Bros. & Co., Jersey City, N. J. Fishing-trolls and artificial casting-baits. No. 74,174; June 22; Gaz. vol. 143; p. 1104.
- Haskell, Adams & Co., Boston, Mass. Wheat-flour. No. 76,147; Dec. 21; Gaz. vol. 149; p. 829.
- Hasselbarth, C. O., Albany, N. Y. Woven-wire mattresses. No. 75,400; Sept. 28; Gaz. vol. 146; p. 954.
- Hathaway, W. C., Plymouth, Mass. Soap. No. 76,164; Dec. 21; Gaz. vol. 149; p. 830.
- Hautzenroeder Co., Mansfield, Ohio. Cigars. No. 74,013; June 8; Gaz. vol. 143; p. 558.
- Hawkeye Flour Company, Cedar Rapids, Iowa. Wheat-flour. No. 73,279; Apr. 6; Gaz. vol. 141; p. 282.
- Hawkeye Incubator Co., Newton, Iowa. Washing-machines. No. 75,401; Sept. 28; Gaz. vol. 146; p. 954.
- Hawks, N. J., New York, N. Y. Can-openers. No. 75,746; Nov. 9; Gaz. vol. 148; p. 566.
- Hawley Folsom Company. (See Hawley, Folsom & Ronimus, assignors.)
- Hawley, Folsom & Ronimus, assignors to Hawley Folsom Company, Boston, Mass. Dress, negligée, and work shirts. No. 73,364; Apr. 13; Gaz. vol. 141; p. 562.
- Hawley Pulp and Paper Company, Oregon City, Oreg. Paper. No. 73,007; Mar. 9; Gaz. vol. 140; p. 502.
- Haynes, C. M., Newark, N. J. Embroidery-stilettoes. No. 75,163; Sept. 7; Gaz. vol. 146; p. 252.
- Haynes Henson Shoe Company, Knoxville, Tenn. Leather boots and shoes. No. 72,714; Feb. 16; Gaz. vol. 139; p. 725.
- Hays, F. A., Overbrook and Philadelphia, Pa. Dolls. Nos. 75,558-9; Oct. 12; Gaz. vol. 147; p. 514.
- Hazard Manufacturing Company, Wilkes-Barre, Pa. Rubber-insulated wires and cables. No. 72,246; Jan. 12; Gaz. vol. 138; p. 524.
- Head, J., Philadelphia, Pa. Tartar solvent. No. 74,081; Aug. 31; Gaz. vol. 145; p. 1246.
- Heagle and Argersinger, Johnstown, N. Y. Suspenders, belts, garters, and arm-bands. No. 74,375; July 6; Gaz. vol. 144; p. 273.
- Healy, D. J., Detroit, Mich. Knitted sweaters and coats. No. 74,532; July 20; Gaz. vol. 144; p. 814.
- Hebdtich, J. C., Newport News, Va. Ginger-ale. No. 73,471; Apr. 20; Gaz. vol. 141; p. 863.
- Hecht & Bro., I., Havre de Grace, Md. Whisky. No. 75,849; Nov. 23; Gaz. vol. 148; p. 1081.
- Regeler & Brünings, Fett-und Seifenwerke A.-G., Aumund, near Vegesack, Germany. Wool-wax, toilet cream, ointments, and emulsions. No. 74,552; July 20; Gaz. vol. 144; p. 814.
- Heide, H., New York, N. Y. Chocolates and bonbons. No. 72,962; Mar. 9; Gaz. vol. 140; p. 501.
- Heilmann, E., Güstrow, Germany. Certain named remedy. No. 72,193; Jan. 5; Gaz. vol. 138; p. 254.
- Heizer & Co., J. W., Wheeling and Woodsdale, W. Va. Milk-modifying bottles and apparatus. No. 74,376; July 6; Gaz. vol. 144; p. 273.
- Heller & Long, New York, N. Y. Handkerchiefs. No. 74,688; Aug. 3; Gaz. vol. 145; p. 251.
- Hellwege & Weaver, New Orleans, La. Sash-fasteners. No. 72,131; Jan. 5; Gaz. vol. 138; p. 252.
- Helm, E. G., New York, N. Y. Combined brushes and combs for tinting the hair. No. 75,850; Nov. 23; Gaz. vol. 148; p. 1081.
- Helvetia Milk Condensing Company, Highland, Ill. Evaporated milk. Nos. 72,100-2; Jan. 5; Gaz. vol. 138; p. 251.
- Henckels, J. A., Solingen, Germany. Steel, iron, lead, zinc, and copper. No. 75,014; Aug. 24; Gaz. vol. 145; p. 1019.
- Henckels, J. A., Solingen, Germany. Steel, iron, lead, zinc, and copper. No. 75,540; Oct. 12; Gaz. vol. 147; p. 514.
- Henkell & Co., Mainz, Germany. Still and sparkling wines. No. 75,473; Oct. 5; Gaz. vol. 147; p. 232.
- Hennessy, T. J., Oakland, Cal. Remedy for indigestion. No. 75,851; Nov. 23; Gaz. vol. 148; p. 1081.
- Henricks Novelty Company, Indianapolis, Ind. Dynamos and magnetos. No. 73,641; May 4; Gaz. vol. 142; p. 285.
- Henry C. Werner Co., Columbus, Ohio. Leather boots and shoes. No. 75,572; Oct. 19; Gaz. vol. 147; p. 767.
- Henry C. Werner Co., Columbus, Ohio. Leather boots and shoes. No. 75,852; Nov. 23; Gaz. vol. 148; p. 1081.
- Henry G. Thompson & Son Co., New Haven, Conn. Hacksaws. Nos. 72,985-7; Mar. 9; Gaz. vol. 140; p. 502.
- Henry G. Thompson & Son Co., New Haven, Conn. Hacksaws. No. 73,043; Mar. 9; Gaz. vol. 140; p. 503.
- Henry G. Thompson & Son Co., New Haven, Conn. Hacksaws. No. 73,176; Mar. 23; Gaz. vol. 140; p. 998.
- Henry G. Thompson & Son Co., New Haven, Conn. Hacksaws. No. 73,945; June 1; Gaz. vol. 143; p. 254.
- Henry H. Shufeldt & Co., Peoria, Ill. Cordials. No. 75,714; Nov. 9; Gaz. vol. 148; p. 565.
- Henry Milward & Sons Limited, Redditch, England. Sewing-needles. No. 75,120; Sept. 7; Gaz. vol. 146; p. 251.
- Henry P. Wilson Company, Boston, Mass., and Sanbornton, N. H. Metal-and-cork clothes-sprinklers. No. 73,679; May 11; Gaz. vol. 142; p. 563.
- Henry W. Price Co., Rockford, Ill. Leather gloves. No. 73,086; Mar. 16; Gaz. vol. 140; p. 752.
- Henry W. Price Co., Rockford, Ill. Leather gloves. No. 74,068; June 15; Gaz. vol. 143; p. 860.
- Herbert Chocolate Co. (See Herbert, J. W., assignor.)
- Herbert, J. W., Wheeling, W. Va., assignor to Herbert Chocolate Co. Chocolate candy. No. 72,091; Jan. 5; Gaz. vol. 138; p. 251.
- Herbrand Co., Fremont, Ohio. Fifth-wheels and gear-irons for vehicles. No. 75,368; Sept. 28; Gaz. vol. 146; p. 953.
- Herbrand Co., Fremont, Ohio. Razors. No. 75,371; Sept. 28; Gaz. vol. 146; p. 953.
- Herbst, M. & F., New York, N. Y. Rye bread. No. 72,796; Feb. 23; Gaz. vol. 139; p. 985.
- Herculever Company, New York, N. Y. Box and case opener. No. 72,363; Jan. 19; Gaz. vol. 138; p. 764.
- Herman Toser Company, Milwaukee, Wis. Bitters. No. 73,826; May 25; Gaz. vol. 142; p. 1109.
- Herrmann, K., Carlsbad, Austria-Hungary. Tooth-paste. No. 73,066; Mar. 16; Gaz. vol. 140; p. 751.
- Herrington Light Company, Indianapolis, Ind. Incandescent mantles. No. 72,868; Mar. 2; Gaz. vol. 140; p. 250.
- Herz, A., New York, N. Y. Toothpicks. No. 73,562; Apr. 27; Gaz. vol. 141; p. 1159.
- Herzfeld, D., San Antonio, Tex. Sauce used as a relish and condiment. No. 74,313; July 6; Gaz. vol. 144; p. 271.
- Hess Brothers Inc., New York, N. Y. Chocolates. No. 73,237; Apr. 6; Gaz. vol. 141; p. 281.
- Hess Brothers Inc., New York, N. Y. Chocolates. No. 73,294; Apr. 6; Gaz. vol. 141; p. 283.
- Hessig-Ellis Drug Co., Memphis, Tenn. Remedy for certain diseases. No. 74,815; Aug. 10; Gaz. vol. 145; p. 508.
- Heyden Chemical Works, New York, N. Y. Certain chemical and pharmaceutical preparations. No. 72,247; Jan. 12; Gaz. vol. 138; p. 524.
- Heyden Chemical Works, New York, N. Y. Bismuth bitannate, (a pharmaceutical preparation.) No. 72,248; Jan. 12; Gaz. vol. 138; p. 524.
- Heymann, W., New York, N. Y. Composition collars and cuffs. Nos. 73,238-9; Apr. 6; Gaz. vol. 141; p. 281.
- Hezel Milling Co., East St. Louis, Ill. Wheat-flour. No. 74,769; Aug. 10; Gaz. vol. 145; p. 507.



*Alphabetical list of registrants of trade-marks—Continued.*

- Hibbard, Spencer, Bartlett & Company, Chicago, Ill. Garden-hose made of a combination of rubber and fabric. No. 72,684; Feb. 9; Gaz. vol. 139; p. 459.
- Hibbard, Spencer, Bartlett & Company, Chicago, Ill. Refrigerators. No. 72,869; Mar. 2; Gaz. vol. 140; p. 250.
- Hibbard, Spencer, Bartlett & Company, Chicago, Ill. Garden-hose. No. 73,044; Mar. 9; Gaz. vol. 140; p. 503.
- Hibben, Hollweg & Company, Indianapolis, Ind. Certain clothing. No. 72,279; Jan. 12; Gaz. vol. 138; p. 525.
- Hibben, Hollweg & Company, Indianapolis, Ind. Yarn. No. 72,768; Feb. 16; Gaz. vol. 139; p. 727.
- Hibben, Hollweg & Company, Indianapolis, Ind. Woven and printed fabrics. No. 74,770; Aug. 10; Gaz. vol. 145; p. 507.
- Hibben, Hollweg & Company, Indianapolis, Ind. Knitted underwear and hosiery. No. 75,402; Sept. 28; Gaz. vol. 146; p. 954.
- Higbee Company, Cleveland, Ohio. Corsets. No. 73,491; Apr. 27; Gaz. vol. 141; p. 1157.
- Higgins, W. A., New York, N. Y. Dried fruits. No. 74,452; July 13; Gaz. vol. 144; p. 558.
- Higgins, W. A., New York, N. Y. Evaporated fruits. No. 74,927; Aug. 17; Gaz. vol. 145; p. 761.
- High Rock Knitting Co., Philmont and New York, N. Y. Underwear. No. 74,175; June 22; Gaz. vol. 143; p. 1104.
- Hill Co., R. M., Springfield, Vt. Remedy for piles. No. 72,797; Feb. 23; Gaz. vol. 139; p. 985.
- Hinds, H. S., Boston, Mass. Candies. No. 74,283; June 29; Gaz. vol. 143; p. 1341.
- Himesley, G. W., Louisville, Ky. Composition of matter for preventing and removing scale. No. 74,314; July 6; Gaz. vol. 144; p. 271.
- Hirsch & Morgan Co., Brooklyn and New York, N. Y. Petticoats, dress-skirts, and underskirts. No. 75,573; Oct. 19; Gaz. vol. 147; p. 767.
- Hirsch Sons, J., New York, N. Y. Certain textile fabrics. No. 72,152; Jan. 5; Gaz. vol. 138; p. 253.
- Hirschler, I. S., Budapest, Austria-Hungary. Natural mineral waters. No. 74,202; June 22; Gaz. vol. 143; p. 1105.
- Hirth, A., Heidingfeld, near Würzburg, Germany. Salve used as an insect-repellant. No. 74,016; June 8; Gaz. vol. 143; p. 558.
- Hoagland, G., Bloomington, Ill. Cleaning and polishing and preserving liquid compound. No. 74,943; Aug. 24; Gaz. vol. 145; p. 1017.
- Hochheimer, A., New York, N. Y. Ostrich-leathers. No. 75,435; Oct. 5; Gaz. vol. 147; p. 231.
- Hoffmann-La Roche & Co., F., Basel, Switzerland. Certain drugs, chemicals, and pharmaceutical preparations. No. 75,372; Sept. 28; Gaz. vol. 146; p. 953.
- Holbrook Grocery Co., Keene, Woodsville, and Nashua, N. H. Canned vegetables, fruits, berries, &c. No. 73,446; Apr. 20; Gaz. vol. 141; p. 862.
- Holland Importing Company, Philadelphia, Pa. Cocoa and chocolate. No. 74,006; June 8; Gaz. vol. 143; p. 558.
- Holland Medicine Company, Scranton, Pa. Medicinal compound for kidney, liver, and bladder troubles. No. 73,680; May 11; Gaz. vol. 142; p. 563.
- Holland Shirt Company, Newark, N. J. Shirts. No. 75,143; Sept. 7; Gaz. vol. 146; p. 252.
- Hollingsworth & Whitney Company, Boston, Mass. Writing and wrapping papers. No. 72,536; Feb. 2; Gaz. vol. 139; p. 193.
- Holmes, R. B., Ellsworth, Me. Canned fruits. No. 76,210; Dec. 28; Gaz. vol. 149; p. 1115.
- Holton & Co., C., Bloomington, Ill. Certain foods. No. 75,679; Nov. 2; Gaz. vol. 148; p. 275.
- Holzapfels Limited, Newcastle-upon-Tyne, England. Paints and enamels. No. 74,984; Aug. 24; Gaz. vol. 145; p. 1018.
- Holzapfels Limited, Newcastle-upon-Tyne, England. Anticorrosive and antifouling compositions. No. 75,313; Sept. 21; Gaz. vol. 146; p. 716.
- Holzhäuserische Maschinenfabrik-Gesellschaft mit beschränkter Haftung, Augsburg, Göggingen, Germany. Communiting-machines and grinding and pulverizing mills. No. 74,284; June 29; Gaz. vol. 143; p. 1341.
- Home Brewing Company, Indianapolis, Ind. Beer. No. 72,223; Jan. 12; Gaz. vol. 138; p. 523.
- Home Fertilizer & Chemical Company, Baltimore, Md. Fertilizers. No. 75,403; Sept. 28; Gaz. vol. 146; p. 954.
- Hood Rubber Co., Boston, Mass. Rubber boots and shoes. No. 74,094; June 15; Gaz. vol. 143; p. 860.
- Hood Rubber Company, Boston, Mass. Rubber boots and shoes. Nos. 74,500-1; July 20; Gaz. vol. 144; p. 813.
- Hopkins & Allen Arms Co., Norwich, Conn. Revolvers, rifles, and shotguns. No. 75,436; Oct. 5; Gaz. vol. 147; p. 231.
- Hopkins and Allen Arms Company, Norwich, Conn. Revolvers. No. 76,148; Dec. 21; Gaz. vol. 149; p. 829.
- Hopkins, C. E., Philadelphia, Pa. Mouth-wash. No. 74,096; June 15; Gaz. vol. 143; p. 860.
- Hopkins, C. L., New Orleans, La. Remedy for certain diseases. No. 74,095; June 15; Gaz. vol. 143; p. 860.
- Horton Manufacturing Company, Bristol, Conn. Fishing-rods. No. 73,218; Mar. 30; Gaz. vol. 140; p. 1204.
- Hoster-Columbus Associated Breweries Company, Columbus, Ohio. Non-intoxicating malt beverage. No. 72,224; Jan. 12; Gaz. vol. 138; p. 523.
- Hoster-Columbus Associated Breweries Company, Columbus, Ohio. Non-intoxicating malt beverage. No. 74,250; June 29; Gaz. vol. 143; p. 1340.
- Houghton, P. A., Boston, Mass. Soaps. No. 72,364; Jan. 19; Gaz. vol. 138; p. 764.
- Houghton, P. A., Boston, Mass. Certain toilet preparations. No. 72,604; Feb. 9; Gaz. vol. 139; p. 457.
- Haupt, H. S., New York, N. Y. Automobiles. No. 74,067; June 15; Gaz. vol. 143; p. 860.
- Housekeeper Corporation, Minneapolis, Minn. Magazine. No. 72,653; Feb. 9; Gaz. vol. 139; p. 458.
- Hovey & Co., F. W., Worcester, Mass. Remedy for certain diseases. No. 74,413; July 13; Gaz. vol. 144; p. 557.
- How Co., Oldtown, Me. Type-writer ribbons and carbon-papers. No. 74,967; Aug. 24; Gaz. vol. 145; p. 1017.
- How Company, Oldtown, Me. Type-writer ribbon and carbon-paper. No. 75,938; Nov. 30; Gaz. vol. 148; p. 1339.
- Howard Brush Company, New York, N. Y. Toilet-brushes. Nos. 75,725-6; Nov. 9; Gaz. vol. 148; p. 565.
- Howard Dustless-Duster Co., Boston, Mass. Dusting-cloths. No. 74,771; Aug. 10; Gaz. vol. 145; p. 507.
- Howe, S. E., Boston, Mass. Court-plaster. No. 76,090; Dec. 14; Gaz. vol. 149; p. 597.
- Hoyt Metal Company, St. Louis, Mo. Lead, metal sheets, and metal pipe. No. 74,453; July 13; Gaz. vol. 144; p. 558.
- Hubbell, R., Northville, N. Y. Zinc binding for oiled cloth and linoleum. No. 74,730; Aug. 3; Gaz. vol. 145; p. 252.
- Hubeny, M. J., Chicago, Ill. Antiseptic toilet-seats. No. 74,636; July 27; Gaz. vol. 144; p. 1086.
- Hudes, S., New York, N. Y. Perfumery. No. 75,893; Nov. 23; Gaz. vol. 148; p. 1082.
- Hudson, M. H., Jr., Kansas City, Mo. Artificial aperient water. No. 75,474; Oct. 5; Gaz. vol. 147; p. 232.
- Hudson River Woolen Mills, Newburgh and New York, N. Y. Cotton-warp flannels. No. 73,184; Mar. 23; Gaz. vol. 140; p. 998.
- Hugh, F., New York, N. Y. Cheese-paste. No. 75,206; Sept. 14; Gaz. vol. 146; p. 501.
- Hughes, A. F., Cleveland, Ohio. Varnish. No. 76,211; Dec. 28; Gaz. vol. 149; p. 1115.
- Hugo Schneider Aktiengesellschaft, Paunsdorf, near Leipzig, Germany. Petroleum lamps, burners, and wicks. No. 72,365; Jan. 19; Gaz. vol. 138; p. 764.
- Hugo Schneider Aktiengesellschaft, Paunsdorf, near Leipzig, Germany. Lamp-chimneys. No. 74,454; July 13; Gaz. vol. 144; p. 558.
- Hull Oil Manufacturing Co Ltd., Hull, England. Manure. No. 75,082; Aug. 31; Gaz. vol. 145; p. 1246.
- Hunnell Soap Co., Cincinnati, Ohio. Soaps. No. 74,176; June 22; Gaz. vol. 143; p. 1104.
- Hunold, E., Providence, R. I. Razors and shears. No. 73,365; Apr. 13; Gaz. vol. 141; p. 562.
- Hunt, J. A., London, England. Matches. No. 72,249; Jan. 12; Gaz. vol. 138; p. 524.
- Hunt, J. A., London, England. Matches. No. 72,654; Feb. 9; Gaz. vol. 139; p. 458.
- Huntington Piano Co., Derby, Conn. Pianos and player-pianos. No. 72,551; Feb. 2; Gaz. vol. 139; p. 194.
- Huntley & Palmers, Limited, Reading, England. Biscuits. No. 74,611; July 27; Gaz. vol. 144; p. 1085.
- Hunt's Perfect Baking Powder Company, Minneapolis, Minn. Baking-powder. No. 73,619; May 4; Gaz. vol. 142; p. 284.
- Hurwitz, A., Pittsburg, Pa. Stogies. No. 73,395; Apr. 13; Gaz. vol. 141; p. 563.
- Huschke, O. E. H., Philadelphia, Pa. Hosiery. No. 72,280; Jan. 12; Gaz. vol. 138; p. 525.
- Hutchens & Potter, Johnstown, N. Y. Gloves and mittens. No. 75,604; Oct. 26; Gaz. vol. 147; p. 1031.
- Hutchinson, Pierce & Co., New York, N. Y. Drawers and undershirts. No. 75,605; Oct. 26; Gaz. vol. 147; p. 1031.
- Hutchinson, Pierce & Co., New York, N. Y. Textile collars and cuffs. No. 75,914; Nov. 23; Gaz. vol. 148; p. 1083.
- Huther Bros. Saw Mfg. Co., Inc., Rochester, N. Y. Circular saws. No. 76,117; Dec. 14; Gaz. vol. 149; p. 598.
- Hutson Tonic Co., Savannah, Ga. Tonic medicine for chills, fevers, and colds. No. 73,331; Apr. 13; Gaz. vol. 141; p. 561.
- Hutlig Manufacturing Company, Muscatine, Iowa. Composition roofing. No. 73,332; Apr. 13; Gaz. vol. 141; p. 561.
- Hutler Brothers Co. of Baltimore City, Baltimore, Md. Antiseptic solution. No. 76,250; Dec. 28; Gaz. vol. 149; p. 1116.
- Huyler, S., New York, N. Y. Nut chocolate. No. 72,118; Jan. 5; Gaz. vol. 138; p. 252.
- Huyler's, New York, N. Y. Candy. No. 74,772; Aug. 10; Gaz. vol. 145; p. 507.
- Hyams, H. H., Cincinnati, Ohio. Blood-purifier. No. 72,819; Feb. 23; Gaz. vol. 139; p. 986.
- Hygienic Shoe Shank Company, New York and Brooklyn, N. Y. Metal shoe-shanks. No. 74,316; Aug. 10; Gaz. vol. 145; p. 508.
- I. Blyn & Sons, New York, N. Y. Boots, shoes, and slippers. Nos. 75,252-3; Sept. 14; Gaz. vol. 146; p. 503.
- I. B. Kleiwer Rubber Company, New York, N. Y. Waterproofed baby-pants and diaper-covers. No. 74,251; June 29; Gaz. vol. 143; p. 1340.
- I. E. Palmer Co., Middletown, Conn. Open-mesh, woven, textile fabrics. No. 73,008; Mar. 9; Gaz. vol. 140; p. 502.
- I-V Washing Tablet Co., Philadelphia, Pa. Laundry tablets for washing and cleansing purposes. Nos. 72,366-7; Jan. 19; Gaz. vol. 138; p. 764.
- Ichthvol Gesellschaft Cordes, Hermann & Co., Hamburg, Germany. Preparations of hydrocarbon containing sulfur. No. 72,605; Feb. 9; Gaz. vol. 139; p. 457.
- Ideal Cocoa & Chocolate Co., Lititz, Pa. Chocolate and candy. No. 74,252; June 29; Gaz. vol. 143; p. 1340.
- Ideal Concrete Machinery Company, South Bend, Ind. Certain concrete machinery. No. 73,177; Mar. 23; Gaz. vol. 140; p. 998.
- Ideal Concrete Machinery Company, South Bend, Ind. Certain building materials. No. 76,196; Dec. 28; Gaz. vol. 149; p. 1115.



*Alphabetical list of registrants of trade-marks—Continued.*

- Ideal Manufacturing Company, Dallas, Tex. Mattresses. No. 75,786; Nov. 16; Gaz. vol. 148; p. 828.  
 Illinois Battery Company, Freeport, Ill. Dry-cell batteries. No. 75,083; Aug. 31; Gaz. vol. 145; p. 1246.  
 Illinois Iron & Bolt Co., Carpentersville, Ill. Anvils. No. 75,084; Aug. 31; Gaz. vol. 145; p. 1246.  
 Illinois Leather Company, Chicago, Ill. Laundry-mangle hair-felt covering. No. 74,553; July 20; Gaz. vol. 144; p. 814.  
 Illinois Malleable Iron Co., Chicago, Ill. Unions and valves. No. 72,655; Feb. 9; Gaz. vol. 139; p. 458.  
 Imboden, I. C., Cleona, Pa. Combination-tool. No. 72,368; Jan. 19; Gaz. vol. 138; p. 764.  
 Imperial M'fg. Co., Baltimore, Md. Gelatin. No. 75,508; Oct. 12; Gaz. vol. 147; p. 513.  
 Importers Branch Ltd., Boston, Mass. Baking-powder. No. 72,329; Jan. 19; Gaz. vol. 138; p. 763.  
 Incandescent Light & Supply Co., Wichita, Kans. Gas-mantles. No. 75,787; Nov. 16; Gaz. vol. 148; p. 828.  
 Independence Cigar Mfg. Co., Detroit, Mich. Cigars. No. 74,859; Aug. 17; Gaz. vol. 145; p. 759.  
 Independent Brewing Company, Philadelphia, Pa. Beer. No. 76,025; Dec. 7; Gaz. vol. 149; p. 306.  
 India Refining Company, Philadelphia, Pa. Pure coconut-oil product for shortening and frying purposes. No. 74,253; June 29; Gaz. vol. 143; p. 1340.  
 India Refining Company, Philadelphia, Pa. Coconut-oil compound for shortening and frying purposes. No. 74,315; July 6; Gaz. vol. 144; p. 271.  
 Indiana Manufacturing Company, Peru, Ind. Refrigerators. No. 74,554; July 20; Gaz. vol. 144; p. 814.  
 International Corset Co., Aurora, Ill. Corsets. No. 72,870; Mar. 2; Gaz. vol. 140; p. 250.  
 International Electric and Engineering Co., New York, N. Y. Combination vise-stand and work-bench. No. 72,424; Jan. 26; Gaz. vol. 138; p. 960.  
 International Harvester Company of America, Chicago, Ill. Certain machinery. No. 76,118; Dec. 14; Gaz. vol. 149; p. 598.  
 International Metal Polish Company, Indianapolis, Ind. Metal-polish. No. 72,754; Feb. 16; Gaz. vol. 139; p. 726.  
 International Patent Corporation, Pierre, S. D., and Jersey City, N. J. Gas and air engines and their accessories. No. 72,369; Jan. 19; Gaz. vol. 138; p. 764.  
 International Shoe Polish Company, New York, N. Y. Shoe-polishes. No. 74,069; June 15; Gaz. vol. 143; p. 860.  
 International Silver Company, Meriden, Conn. Silver-plated ware. No. 73,894; June 1; Gaz. vol. 143; p. 253.  
 International Tea Company's Stores, Limited, London, England. Coffee. No. 75,992; Dec. 7; Gaz. vol. 149; p. 305.  
 International Textbook Company, Scranton, Pa. Type-writers and parts thereof. No. 76,149; Dec. 21; Gaz. vol. 149; p. 829.  
 "Internationale Cacao-fabriek," Amsterdam, Netherlands. Cocoa, cocoa-butter, and chocolate. No. 75,991; Dec. 7; Gaz. vol. 149; p. 305.  
 Interstate Chemical Co., Jersey City, N. J. Insecticides. No. 75,164; Sept. 7; Gaz. vol. 146; p. 252.  
 Interstate Chemical Company, (See Orton, I. F., assignor.)  
 Interwoven Stocking Company, New Brunswick, N. J. Hosiery, undershirts, and knitted drawers. No. 73,946; June 1; Gaz. vol. 143; p. 254.  
 Iowa Soap Company, Burlington, Iowa. Soap. No. 73,472; Apr. 20; Gaz. vol. 141; p. 863.  
 Iowa Soap Company, Burlington, Iowa. Soap. No. 73,571; May 4; Gaz. vol. 142; p. 283.  
 Iowa Tonic Company, Sioux City, Iowa. Certain beverages. No. 73,842; May 25; Gaz. vol. 142; p. 1109.  
 Irish Hand Woven Linen Damask Company, Chicago, Ill. Table-cloths and napkins. No. 73,862; May 25; Gaz. vol. 142; p. 1110.  
 Iron City Engineering Company, Pittsburg, Pa. Incandescent electric lamps. No. 72,685; Feb. 9; Gaz. vol. 139; p. 459.  
 Iron City Engineering Company, Pittsburg, Pa. Dry batteries. No. 76,180; Dec. 21; Gaz. vol. 149; p. 830.  
 Iron City Stamping Company, Pittsburg, Pa. Gas-lamps and incandescent gas glow-bodies and mantles. No. 74,263; June 29; Gaz. vol. 143; p. 1340.  
 Irondequoit Fruit Juice Co., Rochester, N. Y. Unfermented grape-juice. No. 74,555; July 20; Gaz. vol. 144; p. 814.  
 Irondequoit Wine Co., Rochester, N. Y. Wines. No. 74,203; June 22; Gaz. vol. 143; p. 1105.  
 Ironport Portland Cement Company, Ironport, Ohio. Portland cement. No. 72,370; Jan. 19; Gaz. vol. 138; p. 764.  
 Iroquois Brewing Co., Buffalo, N. Y. Beer. No. 76,119; Dec. 14; Gaz. vol. 149; p. 598.  
 Isaac Harter Milling Company, Toledo and Fostoria, Ohio. Wheat-flour. No. 76,150; Dec. 21; Gaz. vol. 149; p. 829.  
 Isaac, T., Chicago, Ill. Remedy for external application for rheumatism. No. 75,606; Oct. 26; Gaz. vol. 147; p. 1031.  
 Island Trading Syndicate Ltd., London, England. Cutch for use in tanning and dyeing. No. 74,285; June 29; Gaz. vol. 143; p. 1341.  
 Italian Swiss Colony, San Francisco, Cal. Unfermented grape-juice. No. 74,455; July 13; Gaz. vol. 144; p. 558.  
 Iten Biscuit Co., Omaha, Nebr. Crackers. No. 74,254; June 29; Gaz. vol. 143; p. 1340.  
 Ivory Handle Co., Hope, Ark. Tool-handles. No. 75,644; Oct. 26; Gaz. vol. 147; p. 1032.  
 J. Touzeau Saunders Limited, London, England. Perfumery. No. 73,620; May 4; Gaz. vol. 142; p. 284.  
 J. A. Folger & Company, San Francisco, Cal. Ground spices. No. 74,502; July 20; Gaz. vol. 144; p. 813.  
 J. A. Folger & Company, San Francisco, Cal. Flavoring extracts. No. 74,503; July 20; Gaz. vol. 144; p. 813.  
 J. A. Folger & Company, San Francisco, Cal. Cream of tartar. No. 74,817; Aug. 10; Gaz. vol. 145; p. 509.  
 J. A. Folger & Company, San Francisco, Cal. Cooking-soda. No. 74,818; Aug. 10; Gaz. vol. 145; p. 509.  
 J. A. Folger & Company, San Francisco, Cal. Tea. No. 74,819; Aug. 10; Gaz. vol. 145; p. 509.  
 J. A. Folger & Company, San Francisco, Cal. Baking-powder. No. 74,820; Aug. 10; Gaz. vol. 145; p. 509.  
 J. A. Folger & Company, San Francisco, Cal. Roasted coffee. Nos. 74,944-50; Aug. 24; Gaz. vol. 145; p. 1017.  
 J. B. King & Co., New York, N. Y. Plaster-of-paris. No. 73,219; Mar. 30; Gaz. vol. 140; p. 1204.  
 J. B. King & Co., New York, N. Y. Cement for finishing walls and ceilings. No. 73,843; May 25; Gaz. vol. 142; p. 1109.  
 J. B. King & Co., New York, N. Y. Wall-finishing compositions. No. 74,230; June 29; Gaz. vol. 143; p. 1339.  
 J. B. King & Co., New York, N. Y. Certain building materials. No. 76,120; Dec. 14; Gaz. vol. 149; p. 598.  
 J. C. Blair Company, Huntington, Pa. Certain paper. No. 72,371; Jan. 19; Gaz. vol. 138; p. 764.  
 J. C. Blair Company, Huntington, Pa. Paper. No. 72,537; Feb. 2; Gaz. vol. 139; p. 193.  
 J. C. Blair Company, Huntington, Pa. Paper, envelopes, tablets, and blank books. No. 72,769; Feb. 16; Gaz. vol. 139; p. 727.  
 J. C. Blair Company, Huntington, Pa. Certain paper and blank books. No. 73,205; Mar. 30; Gaz. vol. 140; p. 1203.  
 J. C. Blair Company, Huntington, Pa. Paper, envelopes, tablets, and blank books. No. 73,681; May 11; Gaz. vol. 142; p. 563.  
 J. C. Blair Company, Huntington, Pa. Paper, envelopes, tablets, and blank books. Nos. 73,800-2; May 18; Gaz. vol. 142; p. 852.  
 J. C. Blair Company, Huntington, Pa. Paper, envelopes, tablets, and blank books. No. 73,863; May 25; Gaz. vol. 142; p. 1110.  
 J. C. Blair Company, Huntington, Pa. Paper, envelopes, tablets, and blank books. No. 74,177; June 22; Gaz. vol. 143; p. 1105.  
 J. C. Blair Company, Huntington, Pa. Paper, envelopes, tablets, and blank books. Nos. 74,625-6; July 27; Gaz. vol. 144; p. 1086.  
 J. C. Blair Company, Huntington, Pa. Paper for writing and printing purposes. Nos. 74,904-5; Aug. 17; Gaz. vol. 145; p. 760.  
 J. C. Blair Company, Huntington, Pa. Paper for writing and printing purposes. Nos. 75,002-3; Aug. 24; Gaz. vol. 145; p. 1018.  
 J. C. Blair Company, Huntington, Pa. Paper, envelopes, tablets, and blank books. No. 75,314; Sept. 21; Gaz. vol. 146; p. 716.  
 J. C. Blair Company, Huntington, Pa. Paper, envelopes, tablets, and blank books. Nos. 75,437-9; Oct. 5; Gaz. vol. 147; p. 231.  
 J. C. Blair Company, Huntington, Pa. Paper, envelopes, tablets, and blank books. Nos. 75,574-5; Oct. 19; Gaz. vol. 147; p. 767.  
 J. C. Blair Company, Huntington, Pa. Paper, envelopes, tablets, and blank books. Nos. 75,645; Oct. 26; Gaz. vol. 147; p. 1032.  
 J. C. Blair Company, Huntington, Pa. Paper, envelopes, tablets, and blank books. No. 75,667; Nov. 2; Gaz. vol. 148; p. 275.  
 J. D. Grant Co., Fargo, N. D. Candy. No. 73,712; May 11; Gaz. vol. 142; p. 564.  
 J. D. Riedel Aktiengesellschaft, Berlin, Germany. Pyrazolone-phenyl-dimethyl-salicylate. No. 75,768; Nov. 16; Gaz. vol. 148; p. 827.  
 J. E. Bartlett Company, Jackson and Detroit, Mich. Stock food. No. 73,621; May 4; Gaz. vol. 142; p. 284.  
 J. E. Linde Paper Company, New York, N. Y. Writing-paper and envelopes. No. 74,821; Aug. 10; Gaz. vol. 145; p. 509.  
 J. F. Fyfe & Son, San Jose, Cal. Canned fruits and canned vegetables. No. 72,656; Feb. 9; Gaz. vol. 139; p. 458.  
 J. G. McCarter Co., Boston, Mass. Top facings and stays for boots and shoes. No. 73,366; Apr. 13; Gaz. vol. 141; p. 562.  
 J. H. Newbauer & Co., San Francisco, Cal. Certain foods. No. 73,864; May 25; Gaz. vol. 142; p. 1110.  
 J. I. Case Threshing Machine Company, Racine, Wis. Threshing-machines, grain-separators, and distinctive parts thereof. No. 72,871; Mar. 2; Gaz. vol. 140; p. 250.  
 J. I. Case Threshing Machine Company, Racine, Wis. Engines, road-rollers, and parts of the same. No. 73,947; June 1; Gaz. vol. 143; p. 254.  
 J. & J. Eager Co., New York, N. Y. Dry gin. No. 73,713; May 11; Gaz. vol. 142; p. 564.  
 J. & J. Eager Co., New York, N. Y. Blended whisky. No. 73,714; May 11; Gaz. vol. 142; p. 564.  
 J. & J. Eager Co., New York, N. Y. Straight whisky. No. 75,475; Oct. 5; Gaz. vol. 147; p. 232.  
 J. & J. Eager Co., New York, N. Y. Blended whisky. No. 75,482; Oct. 5; Gaz. vol. 147; p. 232.  
 J. J. Saville & Company, Limited, Sheffield, England. Certain tools and parts of machinery. No. 75,804; Nov. 16; Gaz. vol. 148; p. 828.  
 J. L. Owens Company, Minneapolis, Minn. Fanning-mills. No. 74,286; June 29; Gaz. vol. 143; p. 1341.  
 J. M. Bour Company, Toledo, Ohio. Blended coffee. No. 74,883; Aug. 17; Gaz. vol. 145; p. 760.  
 J. M. Bour Company, Toledo, Ohio. Blended coffee. No. 75,939; Nov. 30; Gaz. vol. 148; p. 1339.  
 J. P. Eustis Manufacturing Company, Boston, Mass. Match-safes and similar articles. No. 75,054; Aug. 31; Gaz. vol. 145; p. 1245.  
 J. & R. Tennent Limited, Glasgow, Scotland. Lager-beer. No. 75,903; Nov. 23; Gaz. vol. 148; p. 1083.  
 J. S. Merrell Drug Company, St. Louis, Mo. Liniment. No. 74,860; Aug. 17; Gaz. vol. 145; p. 759.  
 J. T. Polk Company, Greenwood, Ind. Certain named foods. No. 74,861; Aug. 17; Gaz. vol. 145; p. 759.  
 J. T. Davenport, London, England. Chlorodyne. No. 76,121; Dec. 14; Gaz. vol. 149; p. 598.  
 J. W. McCoy Pottery Co., Roseville, Ohio. Pottery articles, comprising cooking and culinary articles. No. 73,622; May 4; Gaz. vol. 142; p. 284.



*Alphabetical list of registrants of trade-marks—Continued.*

- Jabez Burns & Sons, New York, N. Y. Coffee and spice mill machinery and coffee-roasters. No. 73,447; Apr. 20; Gaz. vol. 141; p. 862.
- Jacob Dold Packing Company, Buffalo, N. Y. Lard. No. 76,181; Dec. 21; Gaz. vol. 149; p. 830.
- Jacobs Candy Co., Ltd., New Orleans, La. Candy. No. 73,994; June 8; Gaz. vol. 143; p. 558.
- Jaeger Automatic Machine Co., Philadelphia, Pa. Garment-supporters. No. 73,537; Apr. 27; Gaz. vol. 141; p. 1158.
- Jaeger, J., Los Angeles, Cal. Razors, shears, butcher-knives, and sharpening-steels. No. 75,541; Oct. 12; Gaz. vol. 147; p. 514.
- James A. Banister Company, Newark, N. J. Boots, shoes, and slippers of leather, rubber, and canvas. No. 75,855; Nov. 23; Gaz. vol. 148; p. 1081.
- James A. Banister Company, Newark, N. J. Boots, shoes, and slippers of leather, rubber, and canvas. No. 75,904; Nov. 23; Gaz. vol. 148; p. 1083.
- James D. Carter Limited, London, England. Stencil-printers, wax stencil and impression paper. No. 73,803; May 18; Gaz. vol. 142; p. 852.
- James D. McLaurin Co., Inc., New York, N. Y. Sealing-machines and tape-moisteners. No. 75,856; Nov. 23; Gaz. vol. 148; p. 1081.
- James E. Tompkins Co., New York, N. Y. Woven-wire mattresses. No. 74,612; July 27; Gaz. vol. 144; p. 1085.
- James Olwell & Co., New York, N. Y. Blended whisky. Nos. 73,009-10; Mar. 9; Gaz. vol. 140; p. 502.
- James R. Keiser, Inc., New York, N. Y. Certain clothing. Nos. 74,613-14; July 27; Gaz. vol. 144; p. 1086.
- James Spear Stove and Heating Company, Philadelphia, Pa. Stoves, ranges, and furnaces. No. 75,015; Aug. 24; Gaz. vol. 145; p. 1019.
- James Spear Stove and Heating Company, Philadelphia, Pa. Cook-stoves. Nos. 75,016-17; Aug. 24; Gaz. vol. 145; p. 1019.
- James Spear Stove and Heating Company, Philadelphia, Pa. Fireplace-heaters. No. 75,018; Aug. 24; Gaz. vol. 145; p. 1019.
- James Spear Stove and Heating Company, Philadelphia, Pa. Ranges. No. 75,019; Aug. 24; Gaz. vol. 145; p. 1019.
- James Spear Stove and Heating Company, Philadelphia, Pa. Stoves, furnaces, and ranges. No. 75,020; Aug. 24; Gaz. vol. 145; p. 1019.
- James Spear Stove and Heating Company, Philadelphia, Pa. Heating-stoves. No. 75,021; Aug. 24; Gaz. vol. 145; p. 1019.
- James Spear Stove and Heating Company, Philadelphia, Pa. Ranges. Nos. 75,022-3; Aug. 24; Gaz. vol. 145; p. 1019.
- James Spear Stove and Heating Company, Philadelphia, Pa. Stoves, ranges, and furnaces. No. 75,024; Aug. 24; Gaz. vol. 145; p. 1019.
- James Spear Stove and Heating Company, Philadelphia, Pa. Cooking-stoves. No. 75,055; Aug. 31; Gaz. vol. 145; p. 1245.
- James White Paper Company, Chicago, Ill. Certain named paper. No. 75,121; Sept. 7; Gaz. vol. 146; p. 251.
- Jamestown Worsted Mills, Jamestown, N. Y. Worsted piece dress goods. No. 73,427; Apr. 20; Gaz. vol. 141; p. 861.
- Jannell, G. A., Cleveland, Ohio. Poultry medicine. No. 76,122; Dec. 14; Gaz. vol. 149; p. 593.
- Janney, Sempie, Hill & Co., Minneapolis, Minn. Certain tools and machines. No. 75,476; Oct. 5; Gaz. vol. 147; p. 232.
- Japanese Tissue Mills, Holyoke, Mass. Crape-paper napkins. Nos. 74,178-9; June 22; Gaz. vol. 143; p. 1105.
- Jaubert, G. F., Paris, France. Substances for purifying acetylene, &c. No. 75,668; Nov. 2; Gaz. vol. 148; p. 275.
- Jenkins, E. W., Philadelphia, Pa., and New York, N. Y. Shoe and corset laces and braids. No. 73,882; May 25; Gaz. vol. 142; p. 1111.
- Jenkins, T. C., Pittsburg, Pa. Coffee. No. 73,448; Apr. 20; Gaz. vol. 141; p. 862.
- Jennings, W. R., Newport News, Va. Bread. No. 75,805; Nov. 16; Gaz. vol. 148; p. 828.
- Jensen, C. F., Joliet, Ill. Spark-plugs, batteries, and magnetos. No. 74,928; Aug. 17; Gaz. vol. 145; p. 761.
- Jerome, E., New York, N. Y. Remedy for inducing sleep. No. 76,165; Dec. 21; Gaz. vol. 149; p. 830.
- Jersey Cream Co., Fort Worth, Tex. Carbonated non-alcoholic beverage and flavoring-syrup therefor. No. 75,229; Sept. 14; Gaz. vol. 146; p. 502.
- Jewell Belting Company, Hartford, Conn. Leather belting. No. 75,963; Nov. 30; Gaz. vol. 148; p. 1340.
- Jewell, I. H., Chicago, Ill. Stills. No. 74,985; Aug. 24; Gaz. vol. 145; p. 1018.
- Jewett Piano Co., Boston, Mass. Pianos. No. 75,122; Sept. 7; Gaz. vol. 146; p. 251.
- Jewett, R. A., Boston, Mass. Soap. No. 75,905; Nov. 23; Gaz. vol. 148; p. 1083.
- Jim McCoy Distilling Co., Louisville, Ky. Whisky. No. 76,050; Dec. 7; Gaz. vol. 149; p. 307.
- Joel Baily Davis Co., Philadelphia, Pa. Hosiery. No. 73,087; Mar. 16; Gaz. vol. 140; p. 752.
- Johanson, O., New York, N. Y. Remedy for rheumatism and gout. No. 74,651; July 27; Gaz. vol. 144; p. 1087.
- John Anisfeld Co., Cleveland, Ohio. Ladies' outer suits, outer skirts, and coats. No. 73,924; June 1; Gaz. vol. 143; p. 254.
- John Bedford & Sons Limited, Sheffield, England. Tool-steel in bar, rod, and other forms for the manufacture of tools. No. 74,884; Aug. 17; Gaz. vol. 145; p. 760.
- John Blaul's Sons Company, Burlington, Iowa. Glazed coffee and tea. No. 73,449; Apr. 20; Gaz. vol. 141; p. 862.
- John Blaul's Sons Company, Burlington, Iowa. Certain foods. No. 74,014; June 8; Gaz. vol. 143; p. 558.
- John Blaul's Sons Company, Burlington, Iowa. Certain foods. No. 74,255; June 29; Gaz. vol. 143; p. 1340.
- John Boyle & Co., Inc., New York, N. Y. Cotton duck. No. 72,281; Jan. 12; Gaz. vol. 138; p. 525.
- John Boyle Company, Baltimore, Md. Certain foods. No. 74,456; July 13; Gaz. vol. 144; p. 558.
- John C. Kupferle Foundry Company, St. Louis, Mo. Hydrants. No. 75,576; Oct. 19; Gaz. vol. 147; p. 767.
- John C. Morgan Company, Traverse City, Mich. Cider. No. 73,367; Apr. 13; Gaz. vol. 141; p. 562.
- John F. Meyer & Sons Milling Co., St. Louis and Springfield, Mo. Wheat-flour. No. 73,589; May 4; Gaz. vol. 142; p. 283.
- John F. White Company, Mount Morris, N. Y. Canned vegetables and butter. No. 73,995; June 8; Gaz. vol. 143; p. 558.
- John Finn Metal Works, Seattle, Wash. Antifriction-bearing metals. No. 74,986; Aug. 24; Gaz. vol. 145; p. 1018.
- John Hoffmann & Sons Co., Milwaukee, Wis. Blended roasted coffee. Nos. 74,043-4; June 15; Gaz. vol. 143; p. 859.
- John Hoffmann & Sons Co., Milwaukee, Wis. Blended roasted coffee. No. 74,968; Aug. 24; Gaz. vol. 145; p. 1047.
- John Hoffmann & Sons Co., Milwaukee, Wis. Canned fruits, vegetables, salmon, and pork and beans. No. 76,197; Dec. 28; Gaz. vol. 149; p. 1115.
- John Hoffmann & Sons Company, Milwaukee, Wis. Blended roasted coffee. No. 74,885; Aug. 17; Gaz. vol. 145; p. 760.
- John Jameson & Son Limited, Dublin, Ireland. Whisky. No. 73,865; May 25; Gaz. vol. 142; p. 1110.
- John Jameson & Son Limited, Dublin, Ireland. Straight Irish whisky. No. 74,287; June 29; Gaz. vol. 143; p. 1341.
- John Meier Shoe Co., St. Louis, Mo. Leather boots and shoes. No. 72,770; Feb. 16; Gaz. vol. 139; p. 727.
- John Miles Incorporated, New York, N. Y. Ladies' hats of cloth, felt, fur, and straw, and hat-frames therefor. No. 73,206; Mar. 30; Gaz. vol. 140; p. 1203.
- John Morrell & Company, Limited, Liverpool, England, and Ottumwa, Iowa. Hams, breakfast-bacon, and picnics. No. 73,996; June 8; Gaz. vol. 143; p. 558.
- John Morrell & Company, Limited, Liverpool, England, and Ottumwa, Iowa. Boiled hams. No. 73,997; June 8; Gaz. vol. 143; p. 558.
- John Morrell & Company, Limited, Liverpool, England, and Ottumwa, Iowa. Hams. No. 73,998; June 8; Gaz. vol. 143; p. 558.
- John Morrell & Company, Limited, Liverpool, England, and Ottumwa, Iowa. Breakfast-bacon. No. 74,556; July 20; Gaz. vol. 144; p. 814.
- John Morrell & Company, Limited, Liverpool, England, and Ottumwa, Iowa. Certain foods. No. 74,557; July 20; Gaz. vol. 144; p. 814.
- John Morrell & Company, Limited, Liverpool, England, and Ottumwa, Iowa. Lard. No. 74,906; Aug. 17; Gaz. vol. 145; p. 760.
- John Morrell & Company, Limited, Liverpool, England, and Ottumwa, Iowa. Breakfast-bacon. No. 75,085; Aug. 31; Gaz. vol. 145; p. 1246.
- John Morrell & Company, Limited, Liverpool, England, and Ottumwa, Iowa. Picnics, hams, dried beef, shoulders, and bacon. No. 75,348; Sept. 21; Gaz. vol. 146; p. 717.
- John Morrell & Company Limited, Ottumwa, Iowa, and Liverpool, England. Canned, pickled, and preserved meats. No. 75,826; Nov. 16; Gaz. vol. 148; p. 829.
- John Morrell & Company Limited, Ottumwa, Iowa. Hams, bacon, shoulders, picnics, and lard. No. 75,230; Sept. 14; Gaz. vol. 146; p. 502.
- John Morrell & Company Limited, Ottumwa, Iowa. Smoked meats. No. 75,231; Sept. 14; Gaz. vol. 146; p. 502.
- John Morrell & Company Limited, Ottumwa, Iowa. Bacon. No. 75,232; Sept. 14; Gaz. vol. 146; p. 502.
- John P. Squire & Company, Jersey City, N. J., and Boston and Cambridge, Mass. Hams, bacon, and sausages. No. 73,178; Mar. 23; Gaz. vol. 140; p. 998.
- John Rothschild & Co., San Francisco, Cal. Cigars, cigarettes, and tobacco. No. 75,207; Sept. 14; Gaz. vol. 146; p. 501.
- John S. Naylor Company, Wheeling, W. Va. Certain clothing. No. 72,715; Feb. 16; Gaz. vol. 139; p. 725.
- John T. Lewis & Bros. Company, Philadelphia, Pa. Paints, white zinc, and pigments. No. 74,731; Aug. 3; Gaz. vol. 145; p. 252.
- John W. Hasburg Company, Chicago, Ill. Gold preparations for vitrifiable painting. No. 73,260; Apr. 6; Gaz. vol. 141; p. 282.
- John W. Merriam & Co., New York, N. Y. Cigars and little cigars. No. 75,373; Sept. 28; Gaz. vol. 146; p. 953.
- John Wyeth & Brother, Inc., Philadelphia, Pa. Laxative confection of phenolphthalein. No. 73,189; Mar. 30; Gaz. vol. 140; p. 1203.
- John Wyeth & Brother, Incorporated, Philadelphia, Pa. Expectoant pharmaceutical compound. No. 73,623; May 4; Gaz. vol. 142; p. 284.
- Johnson, A. L., Augusta, Me. Horse-powders. No. 74,015; June 8; Gaz. vol. 143; p. 558.
- Johnson Bros., San Francisco, Cal. Coffee. No. 72,798; Feb. 23; Gaz. vol. 139; p. 985.
- Johnson, C. W., Natick and Boston, Mass. Shoes manufactured of leather. No. 74,689; Aug. 3; Gaz. vol. 145; p. 251.
- Johnson, E. A., Duluth, Minn. Remedies for certain diseases. No. 75,233; Sept. 14; Gaz. vol. 146; p. 502.
- Johnson & Johnson, New Brunswick, N. J. Toilet or nursery powder. No. 74,097; June 15; Gaz. vol. 143; p. 860.
- Johnson, L. A., Hopkinsville, Ky. Acidulous syrup for a carbonated beverage. No. 72,153; Jan. 5; Gaz. vol. 138; p. 253.
- Johnson, M. E., trustee, Fitchburg, Mass. Rifles, shotguns, pistols, and revolvers. No. 75,404; Sept. 28; Gaz. vol. 146; p. 954.
- Johnson, M. E., trustee, Fitchburg, Mass. Rifles, shotguns, pistols, and revolvers. No. 75,788; Nov. 16; Gaz. vol. 148; p. 828.
- Johnson Richardson Co. Limited, Montreal, Quebec, Canada, and Burlington, Vt. Liver-pills and dyspepsia-tablets. No. 73,295; Apr. 6; Gaz. vol. 141; p. 283.
- Johnson, W. M., New York, N. Y. Photographs and reproductions of photographs. No. 73,333; Apr. 13; Gaz. vol. 141; p. 561.
- Johnson, W. M., New York, N. Y. Stereoscopes. No. 73,368; Apr. 13; Gaz. vol. 141; p. 562.



*Alphabetical list of registrants of trade-marks—Continued.*

- Johnston Harvester Company, Batavia, N. Y. Certain machines and parts thereof. No. 74,070; June 15; Gaz. vol. 143; p. 860.  
 Johnston Optical Co., Detroit, Mich. Eyeglass and spectacle lenses. No. 72,103; Jan. 5; Gaz. vol. 138; p. 251.  
 Johnstone, R. L., New York, N. Y. Chewing-gum. No. 75,275; Sept. 21; Gaz. vol. 146; p. 715.  
 Johs. Conradsen, A/S, Stavanger, Norway. Sardines and anchovies. No. 73,804; May 18; Gaz. vol. 142; p. 852.  
 Jones, A. M., New York, N. Y. Corsets, corset-waists, and corset-covers. No. 72,283; Jan. 12; Gaz. vol. 138; p. 525.  
 Jones, C. H., Philadelphia, Pa. Pigeon-bands. No. 74,457; July 13; Gaz. vol. 144; p. 558.  
 Jones & Laughlin Steel Company, Pittsburg, Pa. Steel and certain steel articles. No. 73,163; Mar. 23; Gaz. vol. 140; p. 997.  
 Jones-Paddock Co., San Francisco, Cal. Coffee. No. 74,732; Aug. 3; Gaz. vol. 145; p. 252.  
 Jönköpings och Vulcans Tändsticksfabriksaktiebolag, Jönköping, Sweden. Safety-matches. No. 74,733; Aug. 3; Gaz. vol. 145; p. 252.  
 Jordan Bros. Lumber Co., Inc., Norfolk, Va. Lumber and logs. No. 74,134; June 22; Gaz. vol. 143; p. 1103.  
 Jordan, L. B., New Orleans, La. Flavoring extract. No. 75,806; Nov. 16; Gaz. vol. 148; p. 828.  
 Jos. Klein Company, New York, N. Y. Boys' knee-pants and double-breasted outer suits. No. 75,940; Nov. 30; Gaz. vol. 148; p. 1339.  
 Joseph Benn & Sons Incorporated, Greystone, R. I., and New York, N. Y. Padding-cloth for clothing. No. 74,045; June 15; Gaz. vol. 143; p. 859.  
 Joseph Black & Sons Company, York, Pa. Stockings. Nos. 73,207-9; Mar. 30; Gaz. vol. 140; p. 1203.  
 Joseph Friedlander & Bro., New York, N. Y. Eyeglasses and spectacles. No. 75,208; Sept. 14; Gaz. vol. 146; p. 501.  
 Joseph Horne Company, Jersey City, N. J., and Pittsburg, Pa. Certain clothing. No. 74,521; July 20; Gaz. vol. 144; p. 813.  
 Joseph & Schoen, Cedar Rapids, Iowa. Collar clips and buttons. No. 76,186; Dec. 21; Gaz. vol. 149; p. 830.  
 Joseph Strasburger Co., Washington, D. C. Leather boots and shoes. No. 72,282; Jan. 12; Gaz. vol. 138; p. 525.  
 Joseph Strasburger Co., Washington, D. C. Leather boots and shoes. No. 72,405; Jan. 26; Gaz. vol. 138; p. 959.  
 Joseph T. O'Connor Co., New York, N. Y. Scouring-soap containing grit. No. 72,194; Jan. 5; Gaz. vol. 138; p. 254.  
 Josephi & Company, H. L., Skaneateles, N. Y. Artificially-soured milk. No. 73,107; Mar. 16; Gaz. vol. 140; p. 752.  
 Julius King Optical Co., New York, N. Y. Eyeglasses. No. 73,715; May 11; Gaz. vol. 142; p. 564.  
 Julius Loewenthal & Co., New York, N. Y. Braid. No. 74,377; July 6; Gaz. vol. 144; p. 273.  
 Kahn, A. L., New York, N. Y. Woven labels. No. 73,551; Apr. 27; Gaz. vol. 141; p. 1159.  
 Kalamazoo Corset Co., Kalamazoo, Mich. Corsets, corset-waists, and bust-supporters. No. 74,504; July 20; Gaz. vol. 144; p. 813.  
 Kalamazoo Playing Card Co., Kalamazoo, Mich. Playing-cards. No. 75,123; Sept. 7; Gaz. vol. 146; p. 251.  
 Kalle & Co., Actiengesellschaft, Biebrich-on-the-Rhine, Germany. Remedy for leprosy. No. 72,716; Feb. 16; Gaz. vol. 139; p. 725.  
 Kampfe Bros., New York, N. Y. Lawn and hedge shears. No. 73,883; May 25; Gaz. vol. 142; p. 1111.  
 Kandle Head Rest Company, Philadelphia, Pa. Head-rest attachments for barbers' and other chairs. No. 72,250; Jan. 12; Gaz. vol. 138; p. 524.  
 Kanegafuchi Spinning Company, Limited, Kobé, Japan. Spun-silk yarns and noils. No. 75,857; Nov. 23; Gaz. vol. 148; p. 1081.  
 Kankakee Pure Milk & Cold Storage Co., Kankakee, Ill. Milk. No. 73,847; May 25; Gaz. vol. 142; p. 1110.  
 Kansas City Billiard Table Manufacturing Company, Kansas City, Mo. Billiard and pool table cloth. No. 72,538; Feb. 2; Gaz. vol. 139; p. 193.  
 Kansas City Breweries Co., Kansas City, Mo. Beer. No. 73,642; May 4; Gaz. vol. 142; p. 285.  
 Kansas City Wholesale Grocery Co., Kansas City, Mo. Certain foods. No. 74,046; June 15; Gaz. vol. 143; p. 859.  
 Kansas City Wholesale Grocery Co., Kansas City, Mo. Certain foods. No. 74,135; June 22; Gaz. vol. 143; p. 1103.  
 Kansas City Wholesale Grocery Co., Kansas City, Mo. Certain foods. No. 74,505; July 20; Gaz. vol. 144; p. 813.  
 Kansas Milling Company, Wichita, Kans. Wheat-flour. Nos. 76,074-6; Dec. 14; Gaz. vol. 149; p. 597.  
 Kasprowitz, B., Gnesen, Germany. Brandy. No. 75,858; Nov. 23; Gaz. vol. 148; p. 1081.  
 Kasprowitz, B., Gnesen, Germany. Fruit brandy. No. 75,859; Nov. 23; Gaz. vol. 148; p. 1081.  
 Kasprowitz, B., Gnesen, Germany. Brandy. Nos. 75,860-1; Nov. 23; Gaz. vol. 148; p. 1081.  
 Katz Underwear Company, Honesdale, Pa.; New York, N. Y., and Boston, Mass. Ladies' muslin underwear. No. 73,590; May 4; Gaz. vol. 142; p. 283.  
 Keeler, C. E., Atlantic City, N. J. Cold-cream. No. 73,296; Apr. 6; Gaz. vol. 141; p. 233.  
 Keeney Brewing Co., Chicago, Ill. Beer. No. 75,699; Nov. 2; Gaz. vol. 148; p. 276.  
 Keenan Structural Slate Co. Inc., Bangor, Pa. Structural slate. No. 75,086; Aug. 31; Gaz. vol. 145; p. 1246.  
 Kehlor Flour Mills Company, St. Louis, Mo., and East St. Louis, Ill. Wheat-flour. No. 73,045; Mar. 9; Gaz. vol. 140; p. 503.  
 Kehlor Flour Mills Company, St. Louis, Mo., and East St. Louis, Ill. Wheat-bran and middlings and wheat-middlings and flours made from wheat. No. 75,106; Aug. 31; Gaz. vol. 145; p. 1247.  
 Keith, C. H., Cleveland, Ohio. Liver-pills. No. 73,473; Apr. 20; Gaz. vol. 141; p. 863.  
 Keith Paper Company, Turners Falls, Mass. Writing-paper. No. 75,577; Oct. 19; Gaz. vol. 147; p. 767.  
 Keith Paper Company, Turners Falls, Mass. Cover-paper. No. 76,123; Dec. 14; Gaz. vol. 149; p. 598.  
 Kendall, W. M., Manchester, N. H. Sweeping compound. No. 74,862; Aug. 17; Gaz. vol. 145; p. 759.  
 Kendrick & Davis, Lebanon, N. H. Certain electrical apparatus. No. 72,372; Jan. 19; Gaz. vol. 138; p. 765.  
 Kentucky Remedy Co., Henderson Ky. Remedy for certain diseases. No. 75,789; Nov. 16; Gaz. vol. 148; p. 828.  
 Kephart & Son, H., Berrien Springs, Mich. Croup-ointment. No. 73,067; Mar. 16; Gaz. vol. 140; p. 751.  
 Keppler, L., Macon, Ga. Vermis-extermiator. No. 72,456; Jan. 26; Gaz. vol. 138; p. 960.  
 Kerfoot, M. P., New York, N. Y. Hand-tooled, embossed, and colored art-leathers. No. 74,773; Aug. 10; Gaz. vol. 145; p. 507.  
 Kersting & Reed, Tremont, Nebr. Fruit-tree paint for repelling insects, animals, and birds. No. 72,195; Jan. 5; Gaz. vol. 138; p. 254.  
 Key, W., London, England. Apparatus for manufacturing gas. No. 75,165; Sept. 7; Gaz. vol. 146; p. 252.  
 Keyes Fibre Company, Fairfield, Me. Molded pulp plates and dishes. No. 72,284; Jan. 12; Gaz. vol. 138; p. 525.  
 Keyes Fibre Company, Fairfield, Me. Molded pulp plates and dishes. No. 72,457; Jan. 26; Gaz. vol. 138; p. 960.  
 Keystone Oil & Supply Co. Inc., Pittsburg, Pa. Compound for the prevention of scale. No. 74,847; Aug. 10; Gaz. vol. 145; p. 509.  
 Keystone Varnish Company, Brooklyn, N. Y. Flat wall finishes, enamels, and varnishes. No. 72,686; Feb. 9; Gaz. vol. 139; p. 459.  
 Keystone Varnish Company, Brooklyn, N. Y. Varnishes. No. 75,906; Nov. 23; Gaz. vol. 148; p. 1083.  
 Kilborn & Bishop Company, New Haven, Conn. Saw-sets. No. 74,378; July 6; Gaz. vol. 144; p. 273.  
 Kilbourne & Jacobs Mfg. Co., Columbus, Ohio. Wheelbarrows. No. 74,690; Aug. 3; Gaz. vol. 145; p. 251.  
 King, M. C., Philadelphia, Pa. Salves. No. 73,716; May 11; Gaz. vol. 142; p. 564.  
 King Manufacturing Company, Topeka, Kans. Poultry-powder, hog-cholera remedy, and a condition-powder. No. 74,414; July 13; Gaz. vol. 144; p. 557.  
 King Waist Company, Newark, N. J. Certain clothing. No. 73,643; May 4; Gaz. vol. 142; p. 285.  
 Kingsley Paper Co., Cleveland, Ohio. Packages of toilet-paper. No. 74,305; June 29; Gaz. vol. 143; p. 1341.  
 Kinney, J. M., Syracuse and Rochester, N. Y. Certain clothing. No. 73,011; Mar. 9; Gaz. vol. 140; p. 502.  
 Kips Bay Brewing & Malting Co., New York, N. Y. Lager-beer. No. 73,563; Apr. 27; Gaz. vol. 141; p. 1159.  
 Kirk, G. E., Toledo, Ohio. Shelves, stands, and parts thereof. No. 72,872; Mar. 2; Gaz. vol. 140; p. 250.  
 Kiss, J., Columbus, Ohio. Eye medicine. No. 76,251; Dec. 28; Gaz. vol. 149; p. 1116.  
 Kistler Brothers, Stroudsburg, Pa. Apple-vinegar. No. 72,963; Mar. 9; Gaz. vol. 140; p. 501.  
 Kittanning Brick & Fire Clay Co., Wickbrough and Pittsburg, Pa. Brick and building-blocks. No. 73,552; Apr. 27; Gaz. vol. 141; p. 1159.  
 Klaas, M., New York, N. Y. Certain cutlery. No. 75,187; Sept. 14; Gaz. vol. 146; p. 501.  
 Klauer Manufacturing Co., Dubuque, Iowa. Metal conductor-pipe elbows. No. 74,470; July 13; Gaz. vol. 144; p. 559.  
 Kleffmann, A., New York, N. Y. Cigars. No. 72,196; Jan. 5; Gaz. vol. 138; p. 254.  
 Klein Fruit Co., Los Angeles, Cal. Fruits. No. 74,136; June 22; Gaz. vol. 143; p. 1103.  
 Klein, H., Elmhurst, N. Y. Scouring-soap. No. 75,276; Sept. 21; Gaz. vol. 146; p. 715.  
 Kleinsorgen, F., Elberfeld, Germany. Mouth-washes and liquid dentifrices. No. 75,440; Oct. 5; Gaz. vol. 147; p. 231.  
 Kleinsorgen, F., Elberfeld, Germany. Mouth-washes and liquid dentifrices. No. 75,894; Nov. 23; Gaz. vol. 148; p. 1082.  
 Klindt-Geiger Canning Co., Cassville, Wis. Canned corn, sauer-kraut, and tomatoes. No. 74,506; July 20; Gaz. vol. 144; p. 813.  
 Klindt-Geiger Canning Co., Cassville, Wis. Canned corn, sauer-kraut, and tomatoes. No. 74,615; July 27; Gaz. vol. 144; p. 1086.  
 Kline, J. J., New York, N. Y. Cathartic tablet. No. 72,717; Feb. 16; Gaz. vol. 139; p. 725.  
 Klopfer, F. A. V., Leubnitz, near Dresden, Germany. Certain food preparations. No. 72,585; Feb. 2; Gaz. vol. 139; p. 195.  
 Klopfer, F. A. V., Dresden-Leubnitz, Germany. Venereal remedy. No. 74,558; July 20; Gaz. vol. 144; p. 814.  
 Klugh, P. B., Chicago, Ill. Pianos, organs, and piano-players. No. 75,715; Nov. 9; Gaz. vol. 148; p. 565.  
 Kneuper, G., New York, N. Y. Fibrous filtering material in sheet form. No. 73,280; Apr. 6; Gaz. vol. 141; p. 282.  
 Knight, W. W., Denver, Colo. Food for invalids. No. 74,951; Aug. 24; Gaz. vol. 145; p. 1017.  
 Knispel, G. C., St. Paul, Minn. Cigars. Nos. 74,822-3; Aug. 10; Gaz. vol. 145; p. 509.  
 Knoll & Co., Ludwigshafen, Germany. Aromatic iron tonic as a remedy for anemia. No. 72,251; Jan. 12; Gaz. vol. 138; p. 524.  
 Knoll & Co., Ludwigshafen-on-the-Rhine, Germany. Medicine for heart diseases. No. 73,012; Mar. 9; Gaz. vol. 140; p. 502.  
 Knoll & Co., Ludwigshafen-on-the-Rhine, Germany. Medicine. No. 73,755; May 18; Gaz. vol. 142; p. 851.  
 Knoll & Co., Liestal, Switzerland. Medicine. No. 73,150; Mar. 23; Gaz. vol. 140; p. 997.  
 Knothe Brothers, New York, N. Y. Suspenders. No. 75,862; Nov. 23; Gaz. vol. 148; p. 1081.



*Alphabetical list of registrants of trade-marks—Continued.*

- Knott-Van Arnam Manufacturing Co., Fort Wayne, Ind. Flushing-tanks and water-closet hinged seats. No. 75,315; Sept. 21; Gaz. vol. 146; p. 716.
- Knox Manufacturing Co., Los Angeles, Cal. Powder for the extermination of pests. No. 72,330; Jan. 19; Gaz. vol. 138; p. 763.
- Kny Scheerer Company, New York, N. Y. Electromedical apparatus. No. 76,026; Dec. 7; Gaz. vol. 149; p. 306.
- Kochmann-Stallforth Co., New York, N. Y. Decorative fabric for walls and ceilings. No. 74,017; June 8; Gaz. vol. 143; p. 558.
- Koehler & Hinrichs, St. Paul, Minn. Cheese. No. 74,264; June 29; Gaz. vol. 143; p. 1340.
- Koerner & Co., W., Cunnersdorf, near Hirschberg, Germany. Bitters. No. 75,964; Nov. 30; Gaz. vol. 148; p. 1340.
- Koerner & Co., W., Cunnersdorf, near Hirschberg, Germany. Spirituous bitters. No. 76,027; Dec. 7; Gaz. vol. 149; p. 306.
- Kohn & Baer, New York, N. Y. Certain clothing. No. 76,077; Dec. 14; Gaz. vol. 149; p. 597.
- Kokeritz & Co., R. G. von, New York, N. Y. Paint. No. 72,873; Mar. 2; Gaz. vol. 140; p. 250.
- Königliche Regierung Abteilung für direkte Steuern Domänen und Forsten in Wiesbaden, Wiesbaden, Germany. Certain named medicines. No. 75,107; Aug. 31; Gaz. vol. 145; p. 1247.
- Königliche Regierung Abteilung für direkte Steuern Domänen und Forsten in Wiesbaden, Wiesbaden, Germany. Natural mineral waters. No. 76,028; Dec. 7; Gaz. vol. 149; p. 306.
- Koon, I. Z., Columbia, S. C. Remedy for hydrophobia. No. 74,734; Aug. 3; Gaz. vol. 145; p. 252.
- Koper & Co., H., New York, N. Y. Wheat-flour. Nos. 74,863-4; Aug. 17; Gaz. vol. 145; p. 759.
- Koppel, A., New Orleans, La. Blended teas. No. 73,851; May 25; Gaz. vol. 142; p. 1110.
- Koppel, A., New Orleans, La. Spices. No. 74,137; June 22; Gaz. vol. 143; p. 1103.
- Kops Bros., New York, N. Y. Elastic webbing. No. 74,204; June 22; Gaz. vol. 143; p. 1105.
- Kora Co., New York, N. Y. Dress-shields. No. 74,592; July 27; Gaz. vol. 144; p. 1085.
- Kornmann Cohen & Ettlinger, New York, N. Y. Certain clothing. No. 74,824; Aug. 10; Gaz. vol. 145; p. 509.
- Kothe, Wells & Bauer Company, Indianapolis, Ind. Certain foods. No. 74,047; June 15; Gaz. vol. 143; p. 859.
- Kraft, S., Mountsville, W. Va. Ladies' cotton petticoats. No. 72,555; Feb. 2; Gaz. vol. 139; p. 194.
- Kretschmar Sausage Mfg. Co., St. Louis, Mo. Sausage. No. 73,240; Apr. 6; Gaz. vol. 141; p. 281.
- Krout & Fite Manufacturing Company, Philadelphia, Pa. Tapes and bindings. Nos. 73,108-9; Mar. 16; Gaz. vol. 140; p. 752.
- Krumm & Son, A. C., Philadelphia, Pa. Potato chips and peanut-butter. No. 73,369; Apr. 13; Gaz. vol. 141; p. 562.
- Krumm & Son, A. C., Philadelphia, Pa. Noodles, macaroni, and spaghetti. No. 73,766; May 18; Gaz. vol. 142; p. 851.
- Krupp, B. S., Saginaw, Mich. Photographic-printing plates. No. 75,863; Nov. 23; Gaz. vol. 148; p. 1082.
- Kubias, J. C., Redlands, Cal. Olive-oil. No. 73,519; Apr. 27; Gaz. vol. 141; p. 1158.
- Kuehl & Company, G., Chicago, Ill. Certain clocks. Nos. 73,190-1; Mar. 30; Gaz. vol. 140; p. 1203.
- Kuehl & Company, G., Chicago, Ill. Clocks. No. 73,717; May 11; Gaz. vol. 142; p. 564.
- Kundtz, T., Cleveland, Ohio. School-desks and combined desks and seats. No. 73,925; June 1; Gaz. vol. 143; p. 254.
- Kutnow Bros., New York, N. Y. Electric clocks. No. 72,687; Feb. 9; Gaz. vol. 139; p. 459.
- L. Hess & Co., New York, N. Y. Cotton dress goods. No. 73,591; May 4; Gaz. vol. 142; p. 283.
- L. Hess & Co. Inc., New York, N. Y. White and colored cotton dress goods. No. 74,316; July 6; Gaz. vol. 144; p. 271.
- L. Kilshheimer & Co. Inc., Seattle, Wash. Straight whisky. No. 72,488; Jan. 26; Gaz. vol. 138; p. 961.
- L. A. Becker Company, Jersey City, N. J., and Chicago, Ill. Glass bottles. No. 74,018; June 8; Gaz. vol. 143; p. 558.
- L. A. Becker Company, Jersey City, N. J., and Chicago, Ill. Jars. No. 75,864; Nov. 23; Gaz. vol. 148; p. 1082.
- L. A. Williamson Company, Boston, Mass. Extension electric-lamp holders. No. 76,166; Dec. 21; Gaz. vol. 149; p. 830.
- L. B. Evans' Sons Company, Wakefield, Mass. Boots and shoes composed of leather and cloth. No. 72,425; Jan. 26; Gaz. vol. 138; p. 960.
- L. E. Waterman Company, New York, N. Y. Writing-ink. Nos. 72,285-6; Jan. 12; Gaz. vol. 138; p. 525.
- L. H. Beals & Son Co., Westfield, Mass. Whips. No. 73,261; Apr. 6; Gaz. vol. 141; p. 282.
- L. J. Wing Mfg. Co., New York, N. Y. Turbine-blowers and turbine-engines. No. 74,071; June 15; Gaz. vol. 143; p. 860.
- L. L. Brown Paper Company, Adams, Mass. Paper. No. 74,072; June 15; Gaz. vol. 143; p. 860.
- L. & M. Rubber Works, Carrollton, Ohio. Hot-water bottles and fountain-syringes made of rubber. No. 73,564; Apr. 27; Gaz. vol. 141; p. 1159.
- L. M. Rumsey Manufacturing Company, St. Louis, Mo. Water-closets. Nos. 74,379-84; July 6; Gaz. vol. 144; p. 273.
- L. M. Rumsey Manufacturing Company, St. Louis, Mo. Water-closets. No. 74,627; July 27; Gaz. vol. 144; p. 1086.
- L. M. Rumsey Manufacturing Company, St. Louis, Mo. Water-closets. Nos. 75,807-8; Nov. 16; Gaz. vol. 148; p. 828.
- L. M. Rumsey Manufacturing Company, St. Louis, Mo. Rubber hose, belting, packing, and valves. No. 76,078; Dec. 14; Gaz. vol. 149; p. 597.
- L. P. Degen Belting Company, San Francisco, Cal. Leather belting, pump-cups, valves, and washers. No. 73,553; Apr. 27; Gaz. vol. 141; p. 1159.
- La Baue, J. T., Lake Charles, La. Remedy for skin diseases. No. 73,767; May 18; Gaz. vol. 142; p. 851.
- La Chart, W. A., Downers Grove, Ill. Remedy for the liquor and tobacco habits. No. 74,138; June 22; Gaz. vol. 143; p. 1103.
- Lacto-Baciline Company of New York, New York, N. Y. Ferment for milk and other foods. No. 73,151; Mar. 23; Gaz. vol. 140; p. 997.
- Lacto-Baciline Company of New York, New York, N. Y. Scientifically-soured milk. No. 73,592; May 4; Gaz. vol. 142; p. 283.
- Lactomode Co., Wheeling, W. Va. Milk modifying and pasteurizing apparatus and parts thereof. No. 76,044; Dec. 7; Gaz. vol. 149; p. 306.
- Lafin & Rand Powder Company, New York, N. Y., assignor to E. I. du Pont de Nemours Powder Company. Explosive powder. No. 72,657; Feb. 9; Gaz. vol. 139; p. 458.
- Lafin & Rand Powder Company, New York, N. Y., assignor to E. I. du Pont de Nemours Powder Company. Smokeless powder. No. 72,658; Feb. 9; Gaz. vol. 139; p. 458.
- Laigle, R., Paris, France. Incandescent-gas-lamp mantles and filaments therefor. No. 74,345; July 6; Gaz. vol. 144; p. 272.
- Lambert Pharmaceutical Company, St. Louis, Mo. Talcum powder. No. 73,334; Apr. 13; Gaz. vol. 141; p. 561.
- Lamon Brothers, Chatham, Ontario, Canada, and Detroit, Mich. Bread. No. 72,225; Jan. 12; Gaz. vol. 138; p. 523.
- Lancaster & Tonge Ltd., Manchester, England. Steam-traps and unions. No. 76,029; Dec. 7; Gaz. vol. 149; p. 306.
- Landenberger Manufacturing Co., Philadelphia, Pa. Woven dress goods. No. 72,458; Jan. 26; Gaz. vol. 138; p. 961.
- Landers, Frary & Clark, New Britain, Conn. Safety-razors. No. 73,718; May 11; Gaz. vol. 142; p. 564.
- Landers, Frary & Clark, New Britain, Conn. Alcohol stoves and lamps. No. 74,019; June 8; Gaz. vol. 143; p. 558.
- Landers, Frary & Clark, New Britain, Conn. Chafing-dishes. No. 74,507; July 20; Gaz. vol. 144; p. 813.
- Lane, J. A., Ukiah, Cal. Remedy for consumption and catarrh. No. 74,559; July 20; Gaz. vol. 144; p. 814.
- Lane-Libby Fisheries Co., Vinal Haven, Me. Codfish in shreds. No. 72,905; Mar. 2; Gaz. vol. 140; p. 251.
- Lane-Libby Fisheries Co., Vinal Haven, Me. Prepared codfish. No. 72,906; Mar. 2; Gaz. vol. 140; p. 251.
- Lane-Libby Fisheries Co., Vinal Haven, Me. Cured codfish. No. 73,520; Apr. 27; Gaz. vol. 141; p. 1158.
- Lane-Libby Fisheries Co., Vinal Haven, Me. Cured boneless codfish. No. 74,048; June 15; Gaz. vol. 143; p. 859.
- Lane-Libby Fisheries Co., Vinal Haven, Me. Cured boneless fish. No. 74,231; June 29; Gaz. vol. 143; p. 1339.
- Lane-Libby Fisheries Co., Vinal Haven, Me. Cured boneless codfish. No. 74,232; June 29; Gaz. vol. 143; p. 1339.
- Lane-Libby Fisheries Co., Vinal Haven, Me. Cured boneless fish. No. 74,233; June 29; Gaz. vol. 143; p. 1339.
- Lang, J., New York, N. Y. Certain apparatus. No. 74,346; July 6; Gaz. vol. 144; p. 272.
- Langenscheidtsche Verlagsbuchhandlung (Prof. G. Langenscheidt), Schöneberg, near Berlin, Germany. Dictionaries and grammars. No. 73,412; Apr. 20; Gaz. vol. 141; p. 861.
- Langmann, V., New York, N. Y. Medicinal bitters. No. 72,197; Jan. 5; Gaz. vol. 138; p. 254.
- Langman & Kemp, New York, N. Y. Liniments. No. 74,657; July 27; Gaz. vol. 144; p. 1087.
- Lansing, A., New York, N. Y. Sponge-cake. No. 73,370; Apr. 13; Gaz. vol. 141; p. 562.
- Lapham, K. B., assignor to Luminous Silver Polish Company, New York, N. Y. Metal-polishes. No. 73,013; Mar. 9; Gaz. vol. 140; p. 502.
- Larter & Sons, Newark, N. J. Certain precious-metal articles. No. 75,607; Oct. 26; Gaz. vol. 147; p. 1031.
- Lauderbach-Barber Co., Phillipsburg, Pa. Certain foods. No. 74,593; July 27; Gaz. vol. 144; p. 1085.
- Lauderbach-Barber Co., Phillipsburg, Pa. Wheat-flour. No. 74,735; Aug. 3; Gaz. vol. 145; p. 252.
- Lautz Bros. & Co., Buffalo, N. Y. Soap. No. 72,718; Feb. 16; Gaz. vol. 139; p. 725.
- Lautz Bros. & Co., Buffalo, N. Y. Soap and washing-powder. Nos. 73,948-9; June 1; Gaz. vol. 143; p. 254.
- Lawrence Cement Company of Pennsylvania, Siegfried, Pa. Building-cement. Nos. 73,977-9; June 8; Gaz. vol. 143; p. 557.
- Lawrence Cement Company of Pennsylvania, Siegfried, Pa. Building-cement. No. 74,139; June 22; Gaz. vol. 143; p. 1103.
- Lawrence Cement Company of Pennsylvania, Siegfried, Pa. Building-cement. No. 74,234; June 29; Gaz. vol. 143; p. 1339.
- Lawrence Cement Company of Pennsylvania, Siegfried, Pa. Building-cement. Nos. 75,188-9; Sept. 14; Gaz. vol. 146; p. 501.
- Lawton Fruit Juice Co., Ltd., Lawton, Mich. Unfermented grape-juice. No. 75,190; Sept. 14; Gaz. vol. 146; p. 501.
- Le Ripolin (Société Anonyme Française de peintures laquées et d'enduits sous-marins, procédés Lefranc & Briegleb réunis), Paris, France, and Amsterdam, Netherlands. Enamel paint. No. 74,929; Aug. 17; Gaz. vol. 145; p. 761.
- Leach, A. H., Chicago, Ill. Remedies for excessive alcoholism. No. 74,317; July 6; Gaz. vol. 144; p. 271.
- Leather Cloth Co. Limited, London, England. Leather-cloth. Nos. 74,644-6; July 27; Gaz. vol. 144; p. 1086.
- Leatheroid Mfg. Co., Kennebunk, Me., and Boston, Mass. Fiber-board. No. 74,318; July 6; Gaz. vol. 144; p. 271.
- Leavitt, W. S., Boston, Mass. Wheat-flour. No. 75,234; Sept. 14; Gaz. vol. 146; p. 502.
- Leddell-Bigelow Company, New York, N. Y. Certain metals. No. 76,182; Dec. 21; Gaz. vol. 149; p. 830.
- Lederle Antitoxin Laboratories, New York, N. Y. Bacterial antiseptic. No. 76,252; Dec. 28; Gaz. vol. 149; p. 1116.



*Alphabetical list of registrants of trade-marks—Continued.*

- Lee Broom & Duster Company, Lincoln, Nebr. Brooms. Nos. 72,459-61; Jan. 26; Gaz. vol. 138; p. 961.  
 Lee Broom & Duster Company, Lincoln, Nebr. Brooms. Nos. 74,458-67; July 13; Gaz. vol. 144; pp. 558-9.  
 Lee Broom & Duster Company, Lincoln, Nebr. Brooms. Nos. 74,827-8; Aug. 10; Gaz. vol. 145; p. 509.  
 Lee, E. S., Roscoe, Ohio. Wheat-flour. No. 72,226; Jan. 12; Gaz. vol. 138; p. 523.  
 Lee & Underhill, New York, N. Y. Certain sporting goods. No. 76,167; Dec. 21; Gaz. vol. 149; p. 830.  
 Legee & Haskins, San Francisco, Cal. Coffee, olive-oil, flavoring extracts, spices, and German bird-seed. No. 75,087; Aug. 31; Gaz. vol. 145; p. 1246.  
 Legee & Haskins, San Francisco, Cal. Blended coffee. No. 75,268; Sept. 14; Gaz. vol. 146; p. 503.  
 Leerburger & Hessel, New York, N. Y. Broad silks. No. 73,593; May 4; Gaz. vol. 142; p. 283.  
 Leftwich, H. P., Indianapolis, Ind. Tonic beverages. No. 75,654; Oct. 26; Gaz. vol. 147; p. 1032.  
 Legrand, L., Nuits, Côte d'Or, France. Sparkling Burgundy wines. No. 75,578; Oct. 19; Gaz. vol. 147; p. 768.  
 Legrand, L., Nuits, Côte d'Or, France. Wine. No. 76,124; Dec. 14; Gaz. vol. 149; p. 598.  
 Lemarc Pharmaceutical Company, New York, N. Y. Remedy for catarrh and headaches. No. 74,319; July 6; Gaz. vol. 144; p. 271.  
 Leolastic, Saco, Me., and Fall River, Mass. Garter, suspender, and belt webs. No. 72,539; Feb. 2; Gaz. vol. 139; p. 193.  
 Leon Mann Company, New York, N. Y. Coats. No. 74,774; Aug. 10; Gaz. vol. 145; p. 507.  
 Leonard, R. A., Chilkoot, Alaska. Relish made from salmon. No. 73,594; May 4; Gaz. vol. 142; p. 283.  
 Levaggi Company, San Francisco, Cal. California wines. No. 75,277; Sept. 21; Gaz. vol. 146; p. 715.  
 Levi & Co., B., Chicago, Ill. Sausage-curl. No. 75,088; Aug. 31; Gaz. vol. 145; p. 1246.  
 Levi, I. E., Erie, Pa. Medicines used for inhalants. No. 75,865; Nov. 23; Gaz. vol. 148; p. 1082.  
 Levi, I. E., Erie, Pa. Inhalers. No. 75,965; Nov. 30; Gaz. vol. 148; p. 1340.  
 Levi, F., Philadelphia, Pa. Polish for pianos, furniture, and floors. No. 74,658; July 27; Gaz. vol. 144; p. 1087.  
 Levine Bros., Inc., New York, N. Y. Candies. Nos. 75,089-90; Aug. 31; Gaz. vol. 145; p. 1246.  
 Lewis Zukoski Mercantile Company, St. Louis, Mo. Ladies' and children's hats. No. 74,267; June 29; Gaz. vol. 143; p. 1340.  
 Levusove L., New York, N. Y. Manufactured goat-hair. No. 75,809; Nov. 16; Gaz. vol. 148; p. 828.  
 Levy, B., St. Louis, Mo. Certain polishes. No. 73,521; Apr. 27; Gaz. vol. 141; p. 1158.  
 Levy & Co., L. W., Galveston, Tex. Blended whisky. No. 72,964; Mar. 9; Gaz. vol. 140; p. 501.  
 Levy, E., Natchitoches, La. Tonic and stimulant for the hair and scalp. No. 74,320; July 6; Gaz. vol. 144; p. 271.  
 Levy, H. W., New York, N. Y. Belts. No. 72,617; Feb. 9; Gaz. vol. 139; p. 407.  
 Lewis, A. D., assignor to A. D. Lewis and C. P. Byrd, Atlanta, Ga. Beverage to be dispensed at soda-fountains. No. 76,051; Dec. 7; Gaz. vol. 149; p. 307.  
 Lewis Bear Drug Company, Pensacola, Fla. Machine-oil. No. 73,719; May 11; Gaz. vol. 142; p. 564.  
 Lewis & Conger, New York, N. Y. Metal-polishes. No. 72,907; Mar. 2; Gaz. vol. 140; p. 251.  
 Lewis Publishing Company, University City, Mo. Monthly magazine. No. 72,747; Feb. 16; Gaz. vol. 139; p. 726.  
 Lewis, S., New York, N. Y. Polish. No. 74,829; Aug. 10; Gaz. vol. 145; p. 509.  
 Lewiston-Clarkston Canning Co., Limited, Lewiston, Idaho. Canned fruits and vegetables. No. 73,179; Mar. 23; Gaz. vol. 140; p. 998.  
 Lewkowicz, I. H., Sharon, Pa. Tooth powder, paste, and wash. No. 74,865; Aug. 17; Gaz. vol. 145; p. 759.  
 Leys, Christie & Co., New York, N. Y. Jewelry for personal wear. No. 72,287; Jan. 12; Gaz. vol. 138; p. 525.  
 Liberty Brand Canning Company, Dover, Del. Canned fruits. No. 73,768; May 18; Gaz. vol. 142; p. 851.  
 Liebenthal Bros. & Co., Cleveland, Ohio. Cordials. No. 74,826; Aug. 10; Gaz. vol. 145; p. 509.  
 Liebig's Extract of Meat Company, Limited, London, England. Guano. No. 74,736; Aug. 3; Gaz. vol. 145; p. 252.  
 Liebig's Extract of Meat Company, Limited, London, England. Bone-meal. No. 74,737; Aug. 3; Gaz. vol. 145; p. 252.  
 Lima Fruit Juice Company, Lima, Ohio. Non-alcoholic beverage with cherry flavor. No. 73,720; May 11; Gaz. vol. 142; p. 564.  
 Lindner, R., Leipzig, Germany. Skins and furs. No. 75,966; Nov. 30; Gaz. vol. 148; p. 1340.  
 Lindt, H. L., Omaha, Nebr. Preparation for the modification of cow's milk. No. 73,866; May 25; Gaz. vol. 142; p. 1110.  
 Lingner, K. A., Dresden, Germany. Pharmaceutical preparations for treating skin disorders. No. 75,091; Aug. 31; Gaz. vol. 145; p. 1246.  
 Link-Belt Company, Chicago, Ill.; Philadelphia, Pa., and Indianapolis, Ind. Sprocket-wheels. No. 74,987; Aug. 24; Gaz. vol. 145; p. 1018.  
 Linolite Company, London, England. Incandescent electrical lamps and mountings therefor. No. 74,180; June 22; Gaz. vol. 143; p. 1105.  
 Linotype and Machinery Limited, London, England. Certain machines and parts thereof. No. 73,284; Apr. 6; Gaz. vol. 141; p. 282.  
 Lipps-Murbach Company of Baltimore City, Baltimore, Md. Chocolate candy. No. 76,151; Dec. 21; Gaz. vol. 149; p. 829.  
 Liquid Soap Distributor Company. (See Mermord, M. K., assignor.)  
 Listman Mill Company, La Crosse, Wis. Wheat-flour. No. 75,124; Sept. 7; Gaz. vol. 146; p. 251.  
 Litchfield Foundry & Machine Co., Litchfield, Ill. Certain engines. No. 73,538; Apr. 27; Gaz. vol. 141; p. 1158.  
 Little & Company, A. E., Lynn, Mass. Boots and shoes of leather. No. 72,426; Jan. 26; Gaz. vol. 138; p. 960.  
 Little Falls Manufacturing Co., Little Falls, N. Y. Knitted underwear. No. 73,662; May 11; Gaz. vol. 142; p. 563.  
 Litzenger, O. P., Converse, Ind. Medicines for children. No. 74,825; Aug. 10; Gaz. vol. 145; p. 509.  
 Loane-Hiltz Engineering Company of Baltimore City, Baltimore, Md. Internal-combustion engines and parts thereof. No. 73,539; Apr. 27; Gaz. vol. 141; p. 1158.  
 Locke, E. W., Chicago, Ill. Electrical lamps for medical and surgical treatment. No. 72,928; Mar. 2; Gaz. vol. 140; p. 251.  
 Lockwood, Adams and Company, Boston, Mass. Soaps. No. 72,373; Jan. 19; Gaz. vol. 138; p. 765.  
 Lockwood-Luetkemeyer Company, Cleveland, Ohio. Binder-twine. No. 75,827; Nov. 16; Gaz. vol. 148; p. 829.  
 Lockwood, N. S., Sharon, Mass. Remedy for female weakness. No. 72,843; Mar. 2; Gaz. vol. 140; p. 249.  
 Lodi Fruit Products Co., Lodi, Cal. Unfermented grape-juice. No. 74,468; July 13; Gaz. vol. 144; p. 559.  
 Loewenstein, M., New York, N. Y. Certain chemicals. No. 74,288; June 29; Gaz. vol. 143; p. 1341.  
 Loewenthal, S., Cleveland, Ohio. Fruit-cordial. No. 73,644; May 4; Gaz. vol. 142; p. 285.  
 Loewenthal-Strauss Co., Cleveland, Ohio. Bitters. No. 72,518; Feb. 2; Gaz. vol. 139; p. 193.  
 Logan, E. F., Lynn, Mass. Leather boots and shoes. No. 72,874; Mar. 2; Gaz. vol. 140; p. 250.  
 Logan, L. H., Loclo, Okla. Remedies for catarrh, lung trouble, head ailments, and stomach trouble. No. 74,385; July 6; Gaz. vol. 144; p. 273.  
 Loggie, A. & R., Loggieville, New Brunswick, Canada; Island Pond, Vt., and Columbia Falls and Vanceboro, Me. Canned clams. No. 74,775; Aug. 10; Gaz. vol. 145; p. 507.  
 Loggie, A. & R., Loggieville, New Brunswick, Canada; Island Pond, Vt., and Columbia Falls and Vanceboro, Me. Canned clams. No. 75,509; Oct. 12; Gaz. vol. 147; p. 513.  
 Lohman & Trapp, New York, N. Y. Mustard for external use on animals as a counter-irritant. No. 73,895; June 1; Gaz. vol. 143; p. 253.  
 London, P., New York, N. Y. Artificial silk yarn or thread. No. 74,969; Aug. 24; Gaz. vol. 145; p. 1018.  
 Longwell, B. J., Wheeling, W. Va. Certain medicinal preparation. No. 72,198; Jan. 5; Gaz. vol. 138; p. 254.  
 Lonke, J., New York, N. Y. Certain piece goods. No. 74,628; July 27; Gaz. vol. 144; p. 1086.  
 Lonke, J., New York, N. Y. Yarns and threads. No. 74,738; Aug. 3; Gaz. vol. 145; p. 252.  
 Lonke, J., New York, N. Y. Yarns and threads. No. 75,542; Oct. 12; Gaz. vol. 147; p. 514.  
 Lonke, J., Jersey City, N. J., and New York, N. Y. Certain piece goods. No. 75,993; Dec. 7; Gaz. vol. 149; p. 305.  
 López, F. J., Key West, Fla. Headache remedies. No. 74,970; Aug. 24; Gaz. vol. 145; p. 1018.  
 Lord, F. W., New York, N. Y. Lightning-arresters. No. 76,030; Dec. 7; Gaz. vol. 149; p. 306.  
 Lord, S., Telluride, Colo. Liniment. No. 72,844; Mar. 2; Gaz. vol. 140; p. 249.  
 Los Angeles Brewing Co., Los Angeles, Cal. Malt tonic. No. 73,595; May 4; Gaz. vol. 142; p. 283.  
 Loth, E., Cincinnati, Ohio. Hosiery and knitted shirts and drawers. No. 74,256; June 29; Gaz. vol. 143; p. 1340.  
 Loth, E., Cincinnati, Ohio. Shirts. No. 75,994; Dec. 7; Gaz. vol. 149; p. 305.  
 Louisville Paint Mfg. Co., Louisville, Ky. Paint for metal surfaces. No. 73,805; May 18; Gaz. vol. 142; p. 852.  
 Louisville Tin and Stove Company, Louisville, Ky. Stoves and ranges. No. 74,522; July 20; Gaz. vol. 144; p. 813.  
 Lowden, G. W., Savannah, Ga. Canned oysters. No. 74,594; July 27; Gaz. vol. 144; p. 1085.  
 Lowe, W. T. J., Buffalo, N. Y. Spoon fishing-bait. No. 76,045; Dec. 7; Gaz. vol. 149; p. 306.  
 Lubra-Oils Manufacturing Co., Salt Lake City, Utah. Oils used for treating leather. No. 74,181; June 22; Gaz. vol. 143; p. 1105.  
 Lucas E. Moore Stave Company, New Orleans, La. Logs, lumber, staves, and headings. No. 72,799; Feb. 23; Gaz. vol. 139; p. 985.  
 Lucks, O., Seattle, Wash. Cigars. No. 74,471; July 13; Gaz. vol. 144; p. 559.  
 Ludin & Co., S. A., New York, N. Y. Spring and artificial waters and tonic beverages. No. 74,952; Aug. 24; Gaz. vol. 145; p. 1017.  
 Ludin & Co., S. A., New York, N. Y. Certain named water and non-alcoholic tonic beverage. No. 74,988; Aug. 24; Gaz. vol. 145; p. 1018.  
 Ludwig Hupfeld Aktien-Ges., Leipzig, Germany. Certain musical instruments. No. 75,893; Nov. 23; Gaz. vol. 148; p. 1082.  
 Luhrs, R., New York, N. Y. Straight gin. No. 72,227; Jan. 12; Gaz. vol. 138; p. 523.  
 Luminous Silver Polish Company. (See Lapham, K. B., assignor.)  
 Lund, J. A., Muskegon, Mich. Water-closet-seats. No. 72,540; Feb. 2; Gaz. vol. 139; p. 193.  
 Lunkenheimer Company, Cincinnati, Ohio. Gages, pressure-regulators, and water-columns. No. 73,721; May 11; Gaz. vol. 142; p. 564.  
 Lunkenheimer Company, Cincinnati, Ohio. Ejectors, injectors, lubricators, &c. No. 74,098; June 15; Gaz. vol. 143; p. 860.  
 Lunkenheimer Company, Cincinnati, Ohio. Cocks, nozzles, unions, and valves. No. 75,747; Nov. 9; Gaz. vol. 148; p. 566.  
 Luyties Brothers, New York, N. Y. Blended whisky. No. 72,771; Feb. 16; Gaz. vol. 139; p. 727.  
 Luyties, F. A., St. Louis, Mo. Liquid dentifrice, dental powder, cream, and paste. No. 76,253; Dec. 28; Gaz. vol. 149; p. 1116.



*Alphabetical list of registrants of trade-marks—Continued.*

- Lye & Sons, T., Luton, England. Partly-prepared straw and chip. No. 73,827; May 25; Gaz. vol. 142; p. 1109.
- Lye & Sons, T., Luton, England. Straw plait and chip plait. No. 73,884; May 25; Gaz. vol. 142; p. 1111.
- Lyons, G. W., Chicago, Ill. Straight Bourbon whisky. No. 72,313; Jan. 19; Gaz. vol. 138; p. 763.
- Lyons & Healy, Chicago, Ill. Pianos and organs. No. 75,603; Oct. 26; Gaz. vol. 147; p. 1031.
- M. Cohn and Company, East Orange, N. J., and New York, N. Y. Covered steel wire for use as ribbon-wire, bonnet-wire, and collar-supports. No. 74,257; June 29; Gaz. vol. 143; p. 1340.
- M. Cohn and Company, East Orange, N. J., and New York, N. Y. Corset and garment stays. No. 74,472; July 13; Gaz. vol. 144; p. 559.
- M. Rumely Company, Laporte, Ind. Machinery for plowing, hulling, and threshing. No. 75,685; Nov. 2; Gaz. vol. 148; p. 276.
- M. Shaughnessy Distilling Co., St. Louis, Mo. Blended whisky. No. 73,733; May 11; Gaz. vol. 142; p. 565.
- M. Shaughnessy Distilling Co., St. Louis, Mo. Blended whisky. No. 73,742; May 11; Gaz. vol. 142; p. 565.
- M. Shaughnessy Distilling Co., St. Louis, Mo. Straight whisky. No. 74,533; July 20; Gaz. vol. 144; p. 814.
- M. Werk Co., Cincinnati, Ohio. Soap. Nos. 72,519-20; Feb. 2; Gaz. vol. 139; p. 193.
- M. Witmark & Sons, New York, N. Y. Books of fiction. No. 74,031; June 8; Gaz. vol. 143; p. 559.
- M. Witmark & Sons, New York, N. Y. Books of fiction and pictorial illustrations. No. 75,092; Aug. 31; Gaz. vol. 145; p. 1247.
- M. A. Gunst & Co., San Francisco, Cal. Cigars. No. 75,700; Nov. 2; Gaz. vol. 148; p. 276.
- M. A. Winter Co., Washington, D. C. Laxative tablets. Nos. 72,199-200; Jan. 5; Gaz. vol. 138; p. 254.
- M. B. Foster & Sons, Limited, London, England. Beer. No. 73,139; Mar. 16; Gaz. vol. 140; p. 753.
- M. H. Thompson Manufacturing Company, Portland, Me. Boiler-tube cleaners. No. 76,152; Dec. 21; Gaz. vol. 149; p. 829.
- Macalister, D., Boston, Mass. Wheat-flour. No. 75,125; Sept. 7; Gaz. vol. 146; p. 251.
- Macdonald, W. R., Chicago, Ill. Sanitary cover for water-closet seats made of paper. No. 74,508; July 20; Gaz. vol. 144; p. 813.
- Mackintosh, L. A., Philadelphia, Pa. System-tonic and blood-purifier. No. 74,415; July 13; Gaz. vol. 144; p. 557.
- Madame Irene, New York, N. Y. Corsets. Nos. 72,552-4; Feb. 2; Gaz. vol. 139; p. 194.
- Madame Irene, New York, N. Y. Corsets. No. 73,588; May 4; Gaz. vol. 142; p. 283.
- Madame Irene, New York, N. Y. Corsets. No. 75,254; Sept. 14; Gaz. vol. 146; p. 503.
- Madden, G. P., Norwich, Conn. Cigars. No. 72,618; Feb. 9; Gaz. vol. 139; p. 457.
- Maddock, F. R., Newark, N. J. Enameled and rubber-coated carriage-cloths. No. 75,278; Sept. 21; Gaz. vol. 146; p. 715.
- Maffucci, A., Irvington-on-Hudson, N. Y. Remedy for certain diseases. No. 76,254; Dec. 28; Gaz. vol. 149; p. 1116.
- Magic Cleaner Co. (See Pruz, F. F., assignor.)
- Magidson Bros., Chicago, Ill. Cigars. No. 72,201; Jan. 5; Gaz. vol. 138; p. 254.
- Magrath & Co., W. R., Leamington Spa, England. Sherry-wine. No. 72,489; Jan. 26; Gaz. vol. 138; p. 961.
- Mahoney, K., Chicago, Ill. Stock foods. No. 74,830; Aug. 10; Gaz. vol. 145; p. 509.
- Mallard, H., New York, N. Y. Candies. No. 73,999; June 8; Gaz. vol. 143; p. 558.
- Maison Pierre Bardou-Job, Perpignan, France. Cigarette-papers. No. 73,124; Mar. 16; Gaz. vol. 140; p. 753.
- Major and Company Limited, Kingston-upon-Hull, Yorkshire, England. Paints. No. 74,182; June 22; Gaz. vol. 143; p. 1105.
- Maldonado & Co., Inc., San Francisco, Cal. Wheat-flour. Nos. 74,971-2; Aug. 24; Gaz. vol. 145; p. 1018.
- Malz & Co., Philadelphia, Pa. Remedy for rheumatism. No. 73,297; Apr. 6; Gaz. vol. 141; p. 283.
- Mampe, F. J., Stargard, Germany. Bitters. No. 72,202; Jan. 5; Gaz. vol. 138; p. 254.
- Mandelert Mercantile Co., Chippewa Falls, Wis. Certain clothing. No. 73,596; May 4; Gaz. vol. 142; p. 283.
- Mandelert Mercantile Co., Chippewa Falls, Wis. Blankets, flannels, and woolen piece goods. No. 73,896; June 1; Gaz. vol. 143; p. 253.
- Manganesse Bronze & Brass Company Limited, London, England. Metallic alloy. No. 74,831; Aug. 10; Gaz. vol. 145; p. 509.
- Mangels, Herold Co., Baltimore, Md. Compound of corn and cane syrup. No. 74,000; June 8; Gaz. vol. 143; p. 558.
- Manhattan Supply Company, New York, N. Y. Asbestos packing. No. 73,950; June 1; Gaz. vol. 143; p. 254.
- Manitowoc Pea Packing Company, Manitowoc, Wis. Canned vegetables. Nos. 75,702-6; Nov. 2; Gaz. vol. 148; p. 276.
- Manitowoc Pea Packing Company, Manitowoc, Wis. Canned vegetables. No. 75,810; Nov. 16; Gaz. vol. 148; p. 828.
- Mann, H. R., Troy, N. Y. Blank books, filing-cases, stationery, and toilet-paper. No. 75,126; Sept. 7; Gaz. vol. 146; p. 251.
- Mansfield, T. H., Glenridge, N. J. Remedy for certain diseases. No. 74,652; July 27; Gaz. vol. 144; p. 1087.
- Maphis Chemical Company, Inc., Strasburg, Va. Cream dentifrice. No. 75,866; Nov. 23; Gaz. vol. 148; p. 1082.
- March-Brownback Stove Company, Pottstown, Pa. Stove and range fire-brick. No. 72,800; Feb. 23; Gaz. vol. 139; p. 985.
- March-Brownback Stove Company, Pottstown, Pa. Heating stoves and ranges and parts thereof. No. 72,801; Feb. 23; Gaz. vol. 139; p. 985.
- Marculescu, S., New York, N. Y. Toilet cream. No. 74,647; July 27; Gaz. vol. 144; p. 1086.
- Marcus, J., New York, N. Y. Food for cattle consisting of blended grain products. No. 73,522; Apr. 27; Gaz. vol. 141; p. 1158.
- Marechal, Ruchon & Co., Ltd., London, England, and Paris, France. Tobacco-pipes, cigar and cigarette holders. No. 72,556; Feb. 2; Gaz. vol. 139; p. 194.
- Margarete Steiff, Gesellschaft mit beschränkter Haftung, Giengen-Brenz, Germany. Toys of felt and similar material. No. 73,645; May 4; Gaz. vol. 142; p. 285.
- Margolis, E. and J., Dayton, Ohio. Men's and boys' coats, vests, trousers, and overcoats. No. 74,886; Aug. 17; Gaz. vol. 145; p. 760.
- Marietta Stanley Company, Grand Rapids, Mich. Soap. No. 73,528; Apr. 27; Gaz. vol. 141; p. 1158.
- Marietta Stanley Company, Grand Rapids, Mich. Toilet cream. No. 73,529; Apr. 27; Gaz. vol. 141; p. 1158.
- Marietta Stanley Company, Grand Rapids, Mich. Tooth-powder. No. 74,140; June 22; Gaz. vol. 143; p. 1103.
- Marietta Stanley Company, Grand Rapids, Mich. Hair-tonic and shampoo preparation. No. 74,659; July 27; Gaz. vol. 144; p. 1087.
- Marietta Stanley Company, Grand Rapids, Mich. Cosmetic preparation. No. 74,739; Aug. 3; Gaz. vol. 145; p. 252.
- Marion Stove Company, Marion, Ind. Stoves, ranges, and furnaces. No. 75,543; Oct. 12; Gaz. vol. 147; p. 514.
- Märkische Maschinenbauanstalt Teutonia (Gesellschaft mit beschränkter Haftung), Frankfurt-on-the-Oder, Germany. Centrifugal cream-separators. No. 74,141; June 22; Gaz. vol. 143; p. 1103.
- Marks, E. C., Chicago, Ill. Combination metal and rubber bottle-stoppers. No. 73,828; May 25; Gaz. vol. 142; p. 1109.
- Martin Firearms Co., New Haven, Conn. Shotguns and rifles. No. 72,755; Feb. 16; Gaz. vol. 139; p. 726.
- Marquart, Dr. L. C., Beuel-on-the-Rhine, Germany. Antiparasitic preparation for plants. No. 72,331; Jan. 19; Gaz. vol. 138; p. 763.
- Marshall Field & Co., Chicago, Ill. Leather gloves. No. 72,557; Feb. 2; Gaz. vol. 139; p. 194.
- Marshall Field & Company, Chicago, Ill. Cotton piece goods. No. 73,722; May 11; Gaz. vol. 142; p. 564.
- Marshall Field & Company, Chicago, Ill. Watches. No. 73,745; May 18; Gaz. vol. 142; p. 851.
- Marshall-Wells Hardware Co., Duluth, Minn. Stoves and kitchen-ranges. No. 72,875; Mar. 2; Gaz. vol. 140; p. 250.
- Marshall-Wells Hardware Co., Duluth, Minn. Lawn-mowers. No. 73,540; Apr. 27; Gaz. vol. 141; p. 1158.
- Martell & Company, Cognac, France. Cognac brandies. No. 72,228; Jan. 12; Gaz. vol. 138; p. 523.
- Martin Dennis Company, Newark, N. J. Bates for tanners' use. No. 74,321; July 6; Gaz. vol. 144; p. 271.
- Martin, F. A., New York, N. Y. Chocolate. No. 72,119; Jan. 5; Gaz. vol. 138; p. 252.
- Martin & Seiwel, Manito, Ill. Divider-bars for harvesters and mowers. No. 74,111; June 15; Gaz. vol. 143; p. 861.
- Martinez, B., San Antonio, Tex. Corn-flour. No. 72,688; Feb. 9; Gaz. vol. 139; p. 459.
- Marvin Cement Preservative Company, New York, N. Y. Coating for preserving cement, wood, and metal. No. 73,951; June 1; Gaz. vol. 143; p. 254.
- Maryland Distilling Co., Chicago, Ill. Straight Bourbon whisky. No. 72,772; Feb. 16; Gaz. vol. 139; p. 727.
- Maspero Freres, Limited, London, England, and Cairo, Egypt. Cigarettes, cigars, smoking-tobacco, and chewing-tobacco. No. 72,427; Jan. 26; Gaz. vol. 138; p. 960.
- Massachusetts Chemical Company, Walpole, Mass. Chemical solvent for rubber, gutta-percha, pontianac, or asphaltum. No. 75,166; Sept. 7; Gaz. vol. 146; p. 252.
- Massachusetts Cotton Mills, Lowell, Mass. Cotton piece goods. No. 72,154; Jan. 5; Gaz. vol. 138; p. 253.
- Massachusetts Cotton Mills, Lowell, Mass. Colored woven shirting fabrics. No. 72,490; Jan. 26; Gaz. vol. 138; p. 961.
- Massachusetts Cotton Mills, Lowell, Mass. Cotton piece goods. No. 74,322; July 6; Gaz. vol. 144; p. 271.
- Massachusetts Saw Works, Chicopee, Mass. Hacksaw blades, frames, and power-machines. No. 73,806; May 18; Gaz. vol. 142; p. 852.
- Massarella, J., Detroit, Mich. Chocolates. No. 75,441; Oct. 5; Gaz. vol. 147; p. 231.
- Massillon Stone & Fire Brick Co., Massillon, Ohio, and Pittsburgh, Pa. Fire-brick. No. 74,386; July 6; Gaz. vol. 144; p. 273.
- Masury-Young Company, Boston, Mass. Adhesive compositions for the protection of trees and plants from insects. No. 75,769; Nov. 16; Gaz. vol. 148; p. 827.
- Matchless Mineral Water Company, Andalusia, Ala. Natural mineral water. No. 75,316; Sept. 21; Gaz. vol. 146; p. 716.
- Mathews Bros., Norfolk, Va. Semipaste paint and liquid wood-filler. No. 74,523; July 20; Gaz. vol. 144; p. 813.
- Mathusow, H., Philadelphia, Pa. Specific for certain diseases. No. 73,474; Apr. 20; Gaz. vol. 141; p. 863.
- Mathusow, H., Philadelphia, Pa. Remedy for certain diseases. No. 73,756; May 18; Gaz. vol. 142; p. 851.
- Mauser Mill Company, Laury Station, Pa. Wheat-flour. No. 75,867; Nov. 23; Gaz. vol. 148; p. 1082.
- Max Elb, Gesellschaft mit beschränkter Haftung, Dresden, Germany. Certain toilet preparations. No. 73,335; Apr. 13; Gaz. vol. 141; p. 561.
- Maxim Silent Firearms Company, Jersey City, N. J., and New York, N. Y. Devices for lessening the noise of discharge of guns. No. 74,637; July 27; Gaz. vol. 144; p. 1086.



*Alphabetical list of registrants of trade-marks—Continued.*

- Maxwell-McClure Fitts Dry Goods Co., Kansas City, Mo. Overalls, work-shirts, jumpers, &c. No. 75,727; Nov. 9; Gaz. vol. 148; p. 565.
- Mayer, C., New York, N. Y. Salve. No. 72,965; Mar. 9; Gaz. vol. 140; p. 501.
- Mayer, F., New York, N. Y. Certain clothing. No. 73,125; Mar. 16; Gaz. vol. 140; p. 753.
- Mayer-Guthorn & Kahn Company, New York, N. Y. Sweaters, fascinators, shawls, and caps. No. 74,691; Aug. 3; Gaz. vol. 145; p. 251.
- McCawley & Co., Baltimore, Md. Men's outer work-shirts. No. 75,004; Aug. 24; Gaz. vol. 145; p. 1018.
- McClintock-Trunkley Co., Spokane, Wash. Canned fruits and vegetables and condiments. No. 74,907; Aug. 17; Gaz. vol. 145; p. 760.
- McComb, J. S., New York, N. Y. Desks, filing-cases, bookcases, and attachments therefor. No. 72,558; Feb. 2; Gaz. vol. 139; p. 194.
- McCord-Brady Co., Omaha, Nebr. Certain foods. No. 74,020; June 8; Gaz. vol. 143; p. 558.
- McCoy, Howe Company, Indianapolis, Ind. Antiseptic sphenoids. No. 75,167; Sept. 7; Gaz. vol. 146; p. 252.
- McCrary, H. L., Royston, Ga. Tonic beverage. No. 75,655; Oct. 26; Gaz. vol. 147; p. 1032.
- McCray Refrigerator Company, Kendallville, Ind. Refrigerators. No. 75,728; Nov. 9; Gaz. vol. 148; p. 565.
- McCrum-Howell Company, Norwich, Conn., and New York, N. Y. Boilers for heating by steam and hot water. No. 74,073; June 15; Gaz. vol. 143; p. 860.
- McJunkin-Straight Dairy Company, Pittsburg, Pa. Beverage. No. 72,929; Mar. 2; Gaz. vol. 140; p. 251.
- McKean, B. S., New York, N. Y. Remedies for certain diseases. No. 72,332; Jan. 19; Gaz. vol. 138; p. 763.
- McKee, R. J., Buffalo, N. Y. Tonics. No. 72,491; Jan. 26; Gaz. vol. 138; p. 961.
- McKelvey Company, Pittsburg and Scranton, Pa., and Minneapolis and St. Paul, Minn. Trading-stamps. No. 74,887; Aug. 17; Gaz. vol. 145; p. 760.
- McKelvey Company, Pittsburg and Scranton, Pa., and Minneapolis and St. Paul, Minn. Trading-stamps. No. 75,025; Aug. 24; Gaz. vol. 145; p. 1019.
- McKelvey Company, Pittsburg and Scranton, Pa., and Minneapolis and St. Paul, Minn. Trading-stamps. No. 76,183; Dec. 21; Gaz. vol. 149; p. 830.
- McLarens Limited, Hamilton, Ontario, Canada. Jelly-powders, spices, &c. No. 74,142; June 22; Gaz. vol. 143; p. 1104.
- McLeod, C. C. W., Providence, R. I. Toffey. No. 73,180; Mar. 23; Gaz. vol. 140; p. 998.
- McManus, T. E., Schenectady, N. Y. Liniment. No. 75,967; Nov. 30; Gaz. vol. 148; p. 1340.
- McMullen, F. C., Boston, Mass. Cream-separators. No. 74,099; June 15; Gaz. vol. 143; p. 860.
- McMurray, W., St. Paul, Minn. Coffees. No. 72,120; Jan. 5; Gaz. vol. 138; p. 252.
- McMurray, W., St. Paul, Minn. Teas. No. 74,629; July 27; Gaz. vol. 144; p. 1086.
- McPike Drug Company, Kansas City, Mo. Prescription-bottles. No. 73,014; Mar. 9; Gaz. vol. 140; p. 502.
- Meade, J., Kansas City, Mo. Soap. No. 74,776; Aug. 10; Gaz. vol. 145; p. 507.
- Mechanical Rubber Company, New York, N. Y. Hose. No. 73,015; Mar. 9; Gaz. vol. 140; p. 502.
- Mechanical Rubber Company, New York, N. Y. Belting, hose, and machinery packing. No. 73,046; Mar. 9; Gaz. vol. 140; p. 503.
- Mechanical Rubber Company, New York, N. Y. Hose. No. 73,220; Mar. 30; Gaz. vol. 140; p. 1204.
- Mechanical Rubber Company, New York, N. Y. Rubber water-bottles and syringes. No. 75,748; Nov. 9; Gaz. vol. 148; p. 566.
- Mechanical Rubber Company, New York, N. Y. Rubber water-bottles and syringes. No. 76,046; Dec. 7; Gaz. vol. 149; p. 306.
- Mechel, C. E., Milwaukee, Wis. Cereal powder used in baking. No. 72,492; Jan. 26; Gaz. vol. 138; p. 962.
- Meehan, D. C., Columbus, Ohio. Fire-resisting doors and frames therefor. No. 73,624; May 4; Gaz. vol. 142; p. 284.
- Mees, H. J., Philadelphia, Pa. Potato-bread. No. 72,229; Jan. 12; Gaz. vol. 138; p. 523.
- Mees, H. J., Philadelphia, Pa. Breads, pies, and cakes. No. 75,749; Nov. 9; Gaz. vol. 148; p. 566.
- Melrowsky & Company, Cologne-Ehrenfeld, Germany. Insulators and insulated wires. No. 75,317; Sept. 21; Gaz. vol. 146; p. 716.
- Meisel, C., New York, N. Y. Rosin. No. 73,572; May 4; Gaz. vol. 142; p. 283.
- Mellin's Food Company of North America, Portland, Me., and Boston, Mass. Food for infants and invalids. No. 75,279; Sept. 21; Gaz. vol. 146; p. 715.
- Mellin's Food Company of North America, Portland, Me., and Boston, Mass. Food for infants and invalids. Nos. 75,318-19; Sept. 21; Gaz. vol. 146; p. 716.
- Mercurio Bros. Grocer Co., St. Louis, Mo. Spaghetti, macaroni, and noodle dressing. No. 75,701; Nov. 2; Gaz. vol. 148; p. 276.
- Mergenthaler Linotype Company, New York, N. Y. Machines for producing type-bars. No. 74,289; June 29; Gaz. vol. 143; p. 1341.
- Mermoid, M. K., assignor to Liquid Soap Distributor Company, New York, N. Y. Liquid-soap holders. No. 73,450; Apr. 20; Gaz. vol. 141; p. 862.
- Mermoid, M. K., assignor to Liquid Soap Distributor Company, New York, N. Y. Liquid soap. No. 74,290; June 29; Gaz. vol. 143; p. 1341.
- Merrick Medicine Co., Waco, Tex. Remedy for certain diseases. No. 74,560; July 20; Gaz. vol. 144; p. 815.
- Merrimac Manufacturing Co., New York, N. Y. Coats, overcoats, trousers, pants, and vests. No. 72,155; Jan. 5; Gaz. vol. 138; p. 253.
- Merrimac Manufacturing Co., New York, N. Y. Certain clothing. No. 72,300; Jan. 12; Gaz. vol. 138; p. 525.
- Merrimack Manufacturing Company, Lowell, Mass. Cotton flannels. No. 75,417; Sept. 28; Gaz. vol. 146; p. 955.
- Mesirov, J. E., Chicago, Ill. Candy cathartics. No. 75,609; Oct. 26; Gaz. vol. 147; p. 1031.
- Metallic Alloys Co., New York, N. Y. Metallic alloys. No. 73,262; Apr. 6; Gaz. vol. 141; p. 282.
- Metropolitan Hat Company, St. Louis, Mo. Hats. No. 75,510; Oct. 12; Gaz. vol. 147; p. 513.
- Mexican Amole Soap Co., Peoria, Ill. Medicines and toilet preparations. No. 75,255; Sept. 14; Gaz. vol. 146; p. 503.
- Meyer, A. C., Baltimore, Md. Insecticides. No. 72,606; Feb. 9; Gaz. vol. 139; p. 457.
- Meyer, A. C., San Francisco, Cal. Preparation for the treatment of tuberculosis. No. 72,719; Feb. 16; Gaz. vol. 139; p. 725.
- Meyer & Co., H. S., St. Joseph, Mo. Hosiery, underwear, and children's underwaists. No. 75,168; Sept. 7; Gaz. vol. 146; p. 252.
- Middleton Baking Company, New Orleans, La. Bread, crackers, cakes. No. 73,451; Apr. 20; Gaz. vol. 141; p. 862.
- Middletown Chemical Company, Middletown, N. Y. Hydrogen peroxid. No. 72,607; Feb. 9; Gaz. vol. 139; p. 457.
- Midwest Chemical Co., Minneapolis, Minn. Insecticides. No. 74,143; June 22; Gaz. vol. 143; p. 1104.
- Milander-Newman Company, Philadelphia, Pa. Hosiery. No. 73,597; May 4; Gaz. vol. 142; p. 283.
- Milbury Atlantic Supply Co., Rahway, N. J., and New York, N. Y. Oiled clothing. No. 73,926; June 1; Gaz. vol. 143; p. 254.
- Milbury Atlantic Supply Co., Rahway, N. J., and New York, N. Y. Oiled clothing. No. 73,952; June 1; Gaz. vol. 143; p. 255.
- Milbury Atlantic Supply Co., Rahway, N. J., and New York, N. Y. Oiled clothing. No. 74,930; Aug. 17; Gaz. vol. 145; p. 761.
- Milford Chemical Company, Milford, Del. Preparation for the treatment of certain diseases. No. 74,291; June 29; Gaz. vol. 143; p. 1341.
- Milk By-Products Company, Santa Fe, N. Mex. Ter, and Bainbridge, N. Y. Powdered milk-sugar. No. 72,802; Feb. 23; Gaz. vol. 139; p. 985.
- Mill & Mine Supply Co., Seattle, Wash. Shovels, spades, hoes, axes, &c. No. 74,939; Aug. 17; Gaz. vol. 145; p. 761.
- Millen, Aikenhead & Co., New York, N. Y. Dress and negligée shirts, night-shirts, and pajamas. No. 74,032; June 8; Gaz. vol. 143; p. 559.
- Miller Bros. & Co., Baltimore, Md. Oysters, fruits, and vegetables put in hermetically-sealed receptacles. No. 75,405; Sept. 28; Gaz. vol. 146; p. 954.
- Miller & Co., J., Boston, Mass. Blended Bourbon and blended rye whisky. No. 73,475; Apr. 20; Gaz. vol. 141; p. 863.
- Miller & Co., J. G., Chicago, Ill. Certain clothing. No. 73,492; Apr. 27; Gaz. vol. 141; p. 1157.
- Miller, Dubrul & Peters Mfg. Co., Cincinnati, Ohio. Cigar-molds. Nos. 75,868-9; Nov. 23; Gaz. vol. 148; p. 1082.
- Miller Elmer Mfg. Co., New Orleans, La. Taffy candy. No. 73,867; May 25; Gaz. vol. 142; p. 1110.
- Miller Lock Company, Philadelphia, Pa. Locks, padlocks, and keys. No. 74,387; July 6; Gaz. vol. 144; p. 273.
- Miller Manufacturing Company, Lincoln, Nebr. Remedy for warts and moles. No. 74,561; July 20; Gaz. vol. 144; p. 815.
- Miller, S. S., Reading, Pa. Hosiery. No. 75,256; Sept. 14; Gaz. vol. 146; p. 503.
- Milleson, C. D., East St. Louis, Ill. Ground feed for animals. No. 73,452; Apr. 20; Gaz. vol. 141; p. 862.
- Millhiser, C., Richmond, Va. Cigars, cigarettes, and cheroots. No. 75,209; Sept. 14; Gaz. vol. 146; p. 501.
- Millville Manufacturing Company, Philadelphia, Pa. Cotton piece goods. No. 72,541; Feb. 2; Gaz. vol. 139; p. 194.
- Milne & Sons, C. J., Philadelphia, Pa. Cotton chevots. No. 74,931; Aug. 17; Gaz. vol. 145; p. 761.
- Milwaukee Glove Co., Milwaukee, Wis. Leather gloves and mittens. No. 76,153; Dec. 21; Gaz. vol. 149; p. 829.
- Milwaukee Hosiery Company, Milwaukee, Wis. Hosiery. No. 74,235; June 29; Gaz. vol. 143; p. 1339.
- Milwaukee Noodle Co., Milwaukee, Wis. Noodles, macaroni, and spaghetti. No. 75,610; Oct. 26; Gaz. vol. 147; p. 1031.
- Minassian, D. D. H., New York, N. Y. Cigarettes. No. 73,885; May 25; Gaz. vol. 142; p. 1111.
- Mine Rock Co. L'm't'd, New York, N. Y. Table-water. No. 74,740; Aug. 3; Gaz. vol. 145; p. 253.
- Miner, Read & Garrette, New Haven, Conn. Canned vegetables, fruit, and fish. No. 74,144; June 22; Gaz. vol. 143; p. 1104.
- Minneapolis Paper Co., Minneapolis, Minn. Printing, wrapping, writing, ledger, and bond papers. No. 72,375; Jan. 19; Gaz. vol. 138; p. 765.
- Minnesota Linseed Oil Company, Minneapolis, Minn. Raw linseed-oil. No. 73,573; May 4; Gaz. vol. 142; p. 283.
- Minnesota Linseed Oil Company, Minneapolis, Minn. Boiled linseed-oil. No. 73,574; May 4; Gaz. vol. 142; p. 283.
- Minute Tapioca Company, Orange, Mass. Prepared tapioca. No. 75,870; Nov. 23; Gaz. vol. 148; p. 1082.
- Mischo & Müller, New York, N. Y. Fur wearing-apparel. No. 73,016; Mar. 9; Gaz. vol. 140; p. 502.
- Missouri Valley Milling Company, Mandan, N. D. Wheat-flour. No. 73,271; Apr. 13; Gaz. vol. 141; p. 562.
- Mitchell Brothers, Limited, Glasgow, Scotland. Blended Scotch whiskies. No. 73,476; Apr. 20; Gaz. vol. 141; p. 863.
- Mitchell, C. L., Philadelphia, Pa. Photographic developing-powder. No. 76,047; Dec. 7; Gaz. vol. 149; p. 306.



*Alphabetical list of registrants of trade-marks—Continued.*

- Mo. Blue Ribbon Remedy Co., St. Louis, Mo. Poultry-powder. No. 74,866; Aug. 17; Gaz. vol. 145; p. 759.
- Moenus Machine Works Ltd., Frankfurt-on-the-Main, Germany. Leather-finishing machines. No. 75,093; Aug. 31; Gaz. vol. 145; p. 1247.
- Moffett, A., Gordon, Wis. Salve. No. 74,416; July 13; Gaz. vol. 144; p. 557.
- Mohawk Condensed Milk Co., Rochester, N. Y. Condensed milk. No. 72,462; Jan. 26; Gaz. vol. 138; p. 896.
- Mohr, K., Newark, N. J. Emergency-cases and surgical supplies, comprising bandages, gauze dressing, and absorbent cotton. No. 74,236; June 29; Gaz. vol. 143; p. 1339.
- Moland's Sons, W., Philadelphia, Pa. Lard. No. 76,198; Dec. 28; Gaz. vol. 149; p. 1115.
- Moland's Sons, W., Philadelphia, Pa. Hams, bacon, and dried beef. No. 76,199; Dec. 28; Gaz. vol. 149; p. 1115.
- Monadnock Shoe Co., Keene, N. H. Women's and misses' boots and shoes made wholly and in part of leather and cloth. No. 73,336; Apr. 13; Gaz. vol. 141; p. 561.
- Monarch Acetylene Company, Omaha, Nebr. Acetylene-gas generators and storage-tanks. No. 72,156; Jan. 5; Gaz. vol. 138; p. 253.
- Monarch Manufacturing Co., Council Bluffs, Iowa, and Toledo, Ohio. Graphite lubricant. No. 72,230; Jan. 12; Gaz. vol. 138; p. 523.
- Monarch Suspender Company, New York, N. Y. Suspenders. No. 73,980; June 8; Gaz. vol. 143; p. 557.
- Monmouthshire Steel and Tin Plate Company Limited, near Newport, England. Galvanized iron and steel sheeting. No. 72,619; Feb. 9; Gaz. vol. 139; p. 457.
- Monroe Cheese Company, Monroe, N. Y. Cream-cheese. No. 75,871; Nov. 23; Gaz. vol. 148; p. 1082.
- Montag Brothers, Atlanta, Ga. Writing-tablets. Nos. 75,005-7; Aug. 24; Gaz. vol. 145; p. 1019.
- Montag Brothers, Atlanta, Ga. Writing-tablets. No. 75,210; Sept. 14; Gaz. vol. 146; p. 502.
- Montag Brothers, Atlanta, Ga. Writing-tablets. No. 75,511; Oct. 12; Gaz. vol. 147; p. 513.
- Moore, R., Dallas, Tex. Carbonated tonic beverage. No. 74,074; June 15; Gaz. vol. 143; p. 860.
- Moore, R. J., New York, N. Y. Foot-powder. No. 76,255; Dec. 28; Gaz. vol. 149; p. 1117.
- Moore Web Co., Fall River, Mass. Garter, suspender, and belt webs, elastic and non-elastic, braided, or woven. No. 75,750; Nov. 9; Gaz. vol. 148; p. 566.
- Moore & Sons, J., Manchester, England. Felt and cloth hats and caps and straw hats. No. 72,428; Jan. 26; Gaz. vol. 138; p. 960.
- Morgenstern & Company, New York, N. Y. Preparations containing oxygen. No. 75,982; Nov. 30; Gaz. vol. 148; p. 1340.
- Morris Fisher Co. Inc., Reedville, Va. Crude menhaden fish-oil. No. 74,989; Aug. 24; Gaz. vol. 145; p. 1018.
- Morrison, M., New York, N. Y. Coats, vests, trousers, and overcoats. No. 73,413; Apr. 20; Gaz. vol. 141; p. 861.
- Morse & Rogers, New York, N. Y. Leather boots, shoes, and slippers. No. 72,182; Jan. 5; Gaz. vol. 138; p. 253.
- Morton & Co., A., Darvel, Scotland. Linen and hemp piece goods. No. 74,524; July 20; Gaz. vol. 144; p. 813.
- Morton, W. G., Albany, N. Y. Soft cloth. No. 75,211; Sept. 14; Gaz. vol. 146; p. 502.
- Moss, F., New York, N. Y. Silk cloth. No. 73,897; June 1; Gaz. vol. 143; p. 253.
- Mossop & Co., L., Wiconisco, Pa. Hosiery. No. 72,876; Mar. 2; Gaz. vol. 140; p. 250.
- Mother Seigel's Syrup Co., New York, N. Y. Pills for certain diseases. No. 72,467; Jan. 26; Gaz. vol. 138; p. 961.
- Mother Seigel's Syrup Co., New York, N. Y. Tablets for dyspepsia. No. 73,646; May 4; Gaz. vol. 142; p. 285.
- Mother Seigel's Syrup Company, New York, N. Y. Tablets for dyspepsia. No. 72,493; Jan. 26; Gaz. vol. 138; p. 962.
- Mother Seigel's Syrup Co., New York, N. Y. Tablets for indigestion, &c. No. 73,898; June 1; Gaz. vol. 143; p. 253.
- Motor Improvement Company, Cleveland, Ohio. Chain grips for vehicle-wheels. No. 75,374; Sept. 28; Gaz. vol. 146; p. 953.
- Moulié, E., Jacksonville, Fla. Perfumeries. No. 75,624; Oct. 26; Gaz. vol. 147; p. 1031.
- Mound City Paint & Color Company, St. Louis, Mo. Castor-oil. No. 72,845; Mar. 2; Gaz. vol. 140; p. 249.
- Mound City Paint & Color Company, St. Louis, Mo. Painters' materials. No. 74,473; July 13; Gaz. vol. 144; p. 559.
- Mrs. Nettie Harrison Co., San Francisco, Cal. Hair and scalp preparations. No. 74,562; July 20; Gaz. vol. 144; p. 815.
- Mrs. Nettie Harrison Co., San Francisco, Cal. Face-creams and face-powders. No. 74,563; July 20; Gaz. vol. 144; p. 815.
- Mt. Clemens Mineral Springs Water Co., Mount Clemens, Mich. Bathing-salt. No. 75,968; Nov. 30; Gaz. vol. 148; p. 1340.
- Mt. Penn Stove Works, Reading, Pa. Certain stoves and ranges and furnaces and parts thereof. Nos. 72,468-9; Jan. 26; Gaz. vol. 138; p. 961.
- Mt. Shasta Mineral Spring Co., San Francisco, Cal. Natural mineral water. No. 74,564; July 20; Gaz. vol. 144; p. 815.
- Mu-coil Company, Buffalo, N. Y. Effervescing salts. No. 72,252; Jan. 12; Gaz. vol. 138; p. 524.
- Mueller, C. H., San Antonio, Tex. Enamel paint. No. 74,630; July 27; Gaz. vol. 144; p. 1086.
- Mulconroy Company, Philadelphia, Pa. Rubber boots and shoes. No. 73,414; Apr. 20; Gaz. vol. 141; p. 861.
- Mulconroy Company, Philadelphia, Pa. Rubber boots and shoes. No. 73,598; May 4; Gaz. vol. 142; p. 283.
- Mülhens & Kropff, New York, N. Y. Toilet soap. No. 72,521; Feb. 2; Gaz. vol. 139; p. 193.
- Mülhens & Kropff, New York, N. Y. Perfume and toilet water. No. 74,565; July 20; Gaz. vol. 144; p. 815.
- Multiscope and Film Company, Burlington, Wis. Photographic cameras and attachments. No. 75,872; Nov. 23; Gaz. vol. 148; p. 1082.
- Muralo Company, New York and New Brighton, N. Y. Oil wall-paint that dries out dead flat. No. 72,376; Jan. 19; Gaz. vol. 138; p. 765.
- Muralo Company, New York and New Brighton, N. Y. Cold-water paint. Nos. 72,377-8; Jan. 19; Gaz. vol. 138; p. 765.
- Muralo Company, New York and New Brighton, N. Y. Calcimine. No. 73,126; Mar. 16; Gaz. vol. 140; p. 753.
- Muralo Company, New York and New Brighton, N. Y. Calcimine. Nos. 74,347-8; July 6; Gaz. vol. 144; p. 272.
- Muralo Company, New York, N. Y. Calcimine. No. 73,198; Mar. 30; Gaz. vol. 140; p. 1203.
- Muralo Company, New York, N. Y. Calcimine. No. 74,292; June 29; Gaz. vol. 143; p. 1341.
- Muralo Company, New York, N. Y. Calcimine. No. 74,474; July 13; Gaz. vol. 144; p. 559.
- Mystic Wine of Life Co., Bristol, Tenn. Remedy for certain diseases, &c. No. 74,566; July 20; Gaz. vol. 144; p. 815.
- N. C. Barwise Packing Company, Denver and Fort Lupton, Colo. Canned beans and canned tomatoes. No. 72,333; Jan. 19; Gaz. vol. 138; p. 763.
- N. J. Car Spring & Rubber Co., Jersey City, N. J. Belting made of textile fabric impregnated with rubber. No. 72,157; Jan. 5; Gaz. vol. 138; p. 253.
- N. J. Car Spring & Rubber Co., Jersey City, N. J. Rubber fire-hose. No. 73,428; Apr. 20; Gaz. vol. 141; p. 861.
- N. K. Fairbank Company, Chicago, Ill. Soaps. No. 74,567; July 20; Gaz. vol. 144; p. 815.
- N. K. Fairbank Company, Chicago, Ill. Soap. No. 74,867; Aug. 17; Gaz. vol. 145; p. 759.
- N. M. Code Proprietary Limited, Melbourne, Australia. Code and cipher charts, cards, and books. No. 74,388; July 6; Gaz. vol. 144; p. 273.
- Naamlooze Vennootschap Nederlandsche Naamlooze Vennootschap Fransch-Hollandsche Oliefabrieken Nouveaux Etablissements Calvé-Delft, Delft, Netherlands. Nut-oil. No. 72,659; Feb. 9; Gaz. vol. 139; p. 458.
- Naamlooze Vennootschap Nederlandsche Naamlooze Vennootschap Fransch-Hollandsche Oliefabrieken Nouveaux Etablissements Calvé-Delft, Delft, Netherlands. Peanut-oil. No. 75,579; Oct. 19; Gaz. vol. 147; p. 768.
- Napa Canning Co., San Francisco, Cal. Canned and preserved fruits and vegetables. No. 76,168; Dec. 21; Gaz. vol. 149; p. 830.
- Napa Valley Wine Co., Minneapolis, Minn. Certain wines. No. 72,158; Jan. 5; Gaz. vol. 138; p. 253.
- Naptha Starch Enamel Company, Wellsville, N. Y. Laundry starch polish or enamel. No. 73,647; May 4; Gaz. vol. 142; p. 285.
- Narath, W., New York, N. Y. Non-fermenting sugar. No. 75,580; Oct. 19; Gaz. vol. 147; p. 768.
- Naser, Katen & Nahass, New York, N. Y. Certain fancy goods. No. 75,873; Nov. 23; Gaz. vol. 148; p. 1082.
- Nash, G. H., Columbus, Nebr. Dressing for leather and rubber goods. No. 73,807; May 18; Gaz. vol. 142; p. 852.
- National-Acme Mfg. Co., Cleveland, Ohio. Certain plumbing supplies. No. 72,379; Jan. 19; Gaz. vol. 138; p. 765.
- National-Acme Mfg. Co., Cleveland, Ohio. Catalogues, circulars, and pamphlets. No. 73,868; May 25; Gaz. vol. 142; p. 1110.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Sugar wafers. No. 75,811; Nov. 16; Gaz. vol. 148; p. 828.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 75,812; Nov. 16; Gaz. vol. 148; p. 828.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 76,154; Dec. 21; Gaz. vol. 149; p. 829.
- National Candy Company, Jersey City, N. J., and St. Louis, Mo. Candy. No. 76,212; Dec. 28; Gaz. vol. 149; p. 1115.
- National Car Advertising Company, Chicago, Ill. Movable advertising or display signs. No. 74,293; June 29; Gaz. vol. 143; p. 1341.
- National Cash Register Company, Dayton, Ohio. Registers and their parts. No. 73,047; Mar. 9; Gaz. vol. 140; p. 503.
- National Cloak and Suit Company, New York, N. Y. Certain named clothing. No. 74,908; Aug. 17; Gaz. vol. 145; p. 760.
- National Coffee Co., Fort Worth, Tex. Coffee. No. 75,941; Nov. 30; Gaz. vol. 148; p. 1339.
- National Curtain Company, Wilmington, Del. Wagon, &c., dash-curtains. No. 73,453; Apr. 20; Gaz. vol. 141; p. 862.
- National Enameling and Stamping Co., Baltimore, Md. Enameled sheet-metal ware. No. 72,539; Feb. 2; Gaz. vol. 139; p. 194.
- National Gas Light Company, Kalamazoo, Mich. Certain lighting apparatus. No. 76,031; Dec. 7; Gaz. vol. 149; p. 306.
- National Grocer Company, Chicago, Ill. Certain foods. No. 73,372; Apr. 13; Gaz. vol. 141; p. 563.
- National Grocer Company, Detroit, Mich. Tea. No. 75,442; Oct. 5; Gaz. vol. 147; p. 231.
- National Grocer Company, Detroit, Mich. Certain foods. No. 75,942; Nov. 30; Gaz. vol. 148; p. 1339.
- National Gum & Mica Co., New York, N. Y. Adhesives. No. 72,877; Mar. 2; Gaz. vol. 140; p. 250.
- National Hook and Eye Company, Philadelphia, Pa. Hooks and eyes. No. 74,100; June 15; Gaz. vol. 143; p. 861.
- National Hosiery & Yarn Co., Nashville, Tenn. Hosiery. No. 74,888; Aug. 17; Gaz. vol. 145; p. 760.
- National Lead Company, Jersey City, N. J., and New York, N. Y. Lead pipe, sheet-lead, lead in ingots, and Babbitt metal and type-metal. No. 73,185; Mar. 23; Gaz. vol. 140; p. 998.
- National Lead Company, Jersey City, N. J., and New York, N. Y. Lead traps and bends. No. 73,373; Apr. 13; Gaz. vol. 141; p. 563.



*Alphabetical list of registrants of trade-marks—Continued.*

- National Manufacturing Co., St. Joseph, Mo. Certain syrups. No. 72,660; Feb. 9; Gaz. vol. 139; p. 458.  
 National Milk Sugar Company, New York, N. Y. Milk-sugar. No. 75,280; Sept. 21; Gaz. vol. 146; p. 715.  
 National Milling Company, Toledo, Ohio. Wheat-flour. No. 75,212; Sept. 14; Gaz. vol. 146; p. 502.  
 National Milling Company, Toledo, Ohio. Wheat-flour. No. 76,079; Dec. 14; Gaz. vol. 149; p. 597.  
 National Paint and Varnish Company, Cleveland, Ohio. Oil-paints. No. 74,475; July 13; Gaz. vol. 144; p. 559.  
 National Phonograph Company, West Orange, N. J. Phonograph-records. No. 72,560; Feb. 2; Gaz. vol. 139; p. 194.  
 National Phonograph Company, West Orange, N. J. Phonographs, phonograph parts, and phonograph-records. No. 74,476; July 13; Gaz. vol. 144; p. 559.  
 National Phonograph Company, West Orange, N. J. Phonographs and phonograph-horns. No. 75,512; Oct. 12; Gaz. vol. 147; p. 513.  
 National Rice Milling Co., New Orleans, La. Rice. No. 74,477; July 13; Gaz. vol. 144; p. 559.  
 National Roofing Co., Tonawanda, N. Y. Mineral asphalt roofing. No. 74,145; June 22; Gaz. vol. 143; p. 1104.  
 National Saw Company, Newport, Ky. Saws. No. 72,397; Jan. 26; Gaz. vol. 138; p. 959.  
 National Shoemakers, Lewiston, Me. Cloth, rubber, and leather shoes. No. 72,159; Jan. 5; Gaz. vol. 138; p. 253.  
 National Shoemakers, Lewiston, Me. Leather, rubber, and canvas shoes. No. 72,620; Feb. 9; Gaz. vol. 139; p. 457.  
 National Soap and Chemical Co., Toledo, Ohio. Detergent washing-powder. No. 72,406; Jan. 26; Gaz. vol. 138; p. 959.  
 National Toilet Company, Paris, Tenn. Talcum powder. No. 73,068; Mar. 16; Gaz. vol. 140; p. 751.  
 Natona Co., Mobile, Ala. Tonic, tablets, cough-syrup, and antiseptic salve. No. 74,909; Aug. 17; Gaz. vol. 145; p. 760.  
 Natural Power Company, St. Louis, Mo. Electric pressure-fans, suction-fans, and exhausters. No. 74,478; July 13; Gaz. vol. 144; p. 559.  
 Nave-McCord Mercantile Co., St. Joseph, Mo. Roasted coffee and flavoring extracts. No. 74,692; Aug. 3; Gaz. vol. 145; p. 251.  
 Nave-McCord Mercantile Company, St. Joseph, Mo. Canned fruits and vegetables and certain named foods and relishes. No. 74,953; Aug. 24; Gaz. vol. 145; p. 1017.  
 Neckarsulmer Fahrradwerke, Act.-Ges., Neckarsulm, Germany. Certain vehicles and parts thereof. No. 76,184; Dec. 21; Gaz. vol. 149; p. 830.  
 Nestlé and Anglo Swiss Condensed Milk Co., Cham and Vevey, Switzerland, and London, England. Swiss milk-chocolate. No. 74,832; Aug. 10; Gaz. vol. 145; p. 509.  
 Nethery, W. B., Atlanta, Ga. Non-alcoholic tonic beverages. No. 72,160; Jan. 5; Gaz. vol. 138; p. 253.  
 Nethery, W. B., Elberton, Ga. Non-alcoholic carbonated tonic beverage. No. 73,541; Apr. 27; Gaz. vol. 141; p. 1158.  
 Neuss, Hesselin & Co., New York, N. Y. Woven cotton chevrons. Nos. 75,477-8; Oct. 5; Gaz. vol. 147; p. 232.  
 New Amsterdam Renovating Co., New York, N. Y. Paint, varnish, and stain remover. No. 74,833; Aug. 10; Gaz. vol. 145; p. 509.  
 New Castle Portland Cement Co., New Castle, Pa. Hydraulic cement. No. 75,969; Nov. 30; Gaz. vol. 148; p. 1340.  
 New England Confectionery Co., Boston, Mass. Candy lozenges. Nos. 72,494-5; Jan. 26; Gaz. vol. 138; p. 962.  
 New England Cranberry Sales Co., Middleboro, Mass. Cranberries. Nos. 72,104-7; Jan. 5; Gaz. vol. 138; p. 251.  
 New England Cranberry Sales Co., Middleboro, Mass. Cranberries. Nos. 72,121-2; Jan. 5; Gaz. vol. 139; p. 251.  
 New England Maple Syrup Co., Boston, Mass. Compound of corn and cane syrup. No. 73,916; June 1; Gaz. vol. 143; p. 254.  
 New England Maple Syrup Company, Boston, Mass. Syrup made from maple and white sugar. No. 75,056; Aug. 31; Gaz. vol. 145; p. 1245.  
 New Granucci Grocery Co., San Francisco, Cal. Lucca olive-oil. No. 74,777; Aug. 10; Gaz. vol. 145; p. 507.  
 New Hartford Cotton Manufacturing Co., New Hartford, N. Y. Surgical supplies. No. 75,443; Oct. 5; Gaz. vol. 147; p. 231.  
 New Home Sewing Machine Company, Orange, Mass. Sewing-machine needles. No. 72,161; Jan. 5; Gaz. vol. 138; p. 253.  
 New Idea Game Company, Oakland, Cal. Certain games. No. 72,288; Jan. 12; Gaz. vol. 138; p. 525.  
 New Jersey Car Spring & Rubber Co., Jersey City, N. J. Certain garden-hose and machinery belting. No. 72,162; Jan. 5; Gaz. vol. 138; p. 253.  
 New Jersey Car Spring & Rubber Co., Jersey City, N. J. Certain tubing and hose. No. 72,163; Jan. 5; Gaz. vol. 138; p. 253.  
 New Jersey Car Spring & Rubber Co., Jersey City, N. J. Certain hydraulic hose and machinery belting. No. 72,164; Jan. 5; Gaz. vol. 138; p. 253.  
 New Life Manufacturing Company, Kansas City, Mo. Harness-dressing. No. 73,281; Apr. 6; Gaz. vol. 141; p. 282.  
 New Orleans Acid and Fertilizer Company, West New York, N. J. Sugar-cane fertilizers. No. 72,253; Jan. 12; Gaz. vol. 138; p. 524.  
 New Orleans Acid & Fertilizer Company, West New York, N. J. Fertilizers. No. 73,337; Apr. 13; Gaz. vol. 141; p. 562.  
 New Orleans Brewing Co., New Orleans, La. Beer. No. 74,021; June 8; Gaz. vol. 143; p. 558.  
 New Orleans Brewing Co., New Orleans, La. Malt beverage. No. 75,281; Sept. 21; Gaz. vol. 146; p. 715.  
 New Orleans Brewing Co., New Orleans, La. Non-intoxicating malt beverage. No. 75,813; Nov. 16; Gaz. vol. 148; p. 828.  
 New Orleans Coffee Co., Ltd., New Orleans, La. Compound of roasted coffee and chicory. No. 75,874; Nov. 23; Gaz. vol. 148; p. 1082.  
 New Orleans Coffee Company, Limited, New Orleans, La. Syrups, coffee, and compound of coffee and chicory. Nos. 74,910-11; Aug. 17; Gaz. vol. 145; p. 760.  
 New Orleans Coffee Company, Limited, New Orleans, La. Certain saccharine foods. No. 75,282; Sept. 21; Gaz. vol. 146; p. 715.  
 New Orleans Coffee Company, Limited, New Orleans, La. Certain foods. No. 75,406; Sept. 28; Gaz. vol. 146; p. 954.  
 New Orleans Coffee Company, Limited, New Orleans, La. Certain saccharine foods. No. 75,611; Oct. 26; Gaz. vol. 147; p. 1031.  
 New Orleans Import Co., Limited, New Orleans, La. Blended teas. No. 75,213; Sept. 14; Gaz. vol. 146; p. 502.  
 New Orleans Import Co., Ltd., New Orleans, La. Tea. No. 73,221; Mar. 30; Gaz. vol. 140; p. 1204.  
 New Orleans Import Co., Ltd., New Orleans, La. Tea. No. 73,374; Apr. 13; Gaz. vol. 141; p. 563.  
 New South Brewery & Ice Co., Middleboro, Ky. Non-intoxicating malt beverage. No. 73,298; Apr. 6; Gaz. vol. 141; p. 283.  
 New South Brewery & Ice Co., Middleboro, Ky. Non-intoxicating malt beverage. No. 74,660; July 27; Gaz. vol. 144; p. 1087.  
 New York Belting and Packing Company, Limited, New York, N. Y. Rubber mats and mattings. Nos. 73,017-18; Mar. 9; Gaz. vol. 140; p. 502.  
 New York Belting and Packing Company, Limited, New York, N. Y. Machinery packing. Nos. 73,019-20; Mar. 9; Gaz. vol. 140; pp. 502-3.  
 New York Belting and Packing Company, Limited, New York, N. Y. Belting, hose, and machinery packing. No. 73,021; Mar. 9; Gaz. vol. 140; p. 503.  
 New York Belting and Packing Company, Limited, New York, N. Y. Belting and hose. No. 73,022; Mar. 9; Gaz. vol. 140; p. 503.  
 New York Belting and Packing Company, Limited, New York, N. Y. Hose. Nos. 73,023-32; Mar. 9; Gaz. vol. 140; p. 503.  
 New York Belting and Packing Company, Limited, New York, N. Y. Belting, hose, and machinery packing. No. 73,033; Mar. 9; Gaz. vol. 140; p. 503.  
 New York Belting and Packing Company, Limited, New York, N. Y. Belting and hose. No. 73,140; Mar. 16; Gaz. vol. 140; p. 753.  
 New York Belting and Packing Company, Limited, New York, N. Y. Belting, hose, and machinery packing. No. 73,164; Mar. 23; Gaz. vol. 140; p. 997.  
 New York Belting and Packing Company, Limited, New York, N. Y. Hose. No. 73,165; Mar. 23; Gaz. vol. 140; p. 997.  
 New York Belting and Packing Company, Limited, New York, N. Y. Belting and hose. No. 73,228; Mar. 30; Gaz. vol. 140; p. 1204.  
 New York Belting and Packing Company, Limited, New York, N. Y. Hose composed of rubber or rubber and fabric. No. 75,257; Sept. 14; Gaz. vol. 146; p. 503.  
 New York Belting and Packing Company, Limited, New York, N. Y. Hose composed of rubber or rubber and fabric. Nos. 75,707-8; Nov. 2; Gaz. vol. 148; p. 276.  
 New York Belting and Packing Company, Ltd., New York, N. Y. Rubber or rubber and fabric hose. No. 72,561; Feb. 2; Gaz. vol. 139; p. 194.  
 New York Belting and Packing Company, Limited, New York, N. Y., and Passaic, N. J. Machinery packing. No. 75,108; Aug. 31; Gaz. vol. 145; p. 1247.  
 New York Central Iron Works Company, Geneva, N. Y. Boilers. No. 73,338; Apr. 13; Gaz. vol. 141; p. 562.  
 New York Flexible Metallic Hose and Tubing Company, New York, N. Y., assignor to J. A. Coe, Jr., Waterbury, Conn. Flexible metallic hose and tubing. No. 73,227; Mar. 30; Gaz. vol. 140; p. 1204.  
 New York Herald Company, New York, N. Y. Comic sections or pages of newspapers. No. 72,301; Jan. 12; Gaz. vol. 138; p. 525.  
 New York Leather Belting Co., New York, N. Y. Balata belting. No. 75,875; Nov. 23; Gaz. vol. 148; p. 1082.  
 New York & London Drug Co., New York, N. Y. Remedies for certain diseases. No. 75,375; Sept. 28; Gaz. vol. 146; p. 953.  
 New York Lubricating Oil Company, New York, N. Y. Lubricating greases and oils. Nos. 72,380-1; Jan. 19; Gaz. vol. 138; p. 765.  
 New York Mackintosh Company, New York, N. Y. Women's coats cloaks, suits, and outer skirts. No. 73,746; May 18; Gaz. vol. 142; p. 851.  
 New York Structural Glass Co., New York, N. Y. Glass. No. 72,661; Feb. 9; Gaz. vol. 139; p. 458.  
 Newark Tortoise Shell Novelty Co., Newark, N. J. Hair-pins, combs, barrettes, bandeaux, and hair ornaments. No. 73,375; Apr. 13; Gaz. vol. 141; p. 563.  
 Newburger & Bro., L., Cincinnati, Ohio. Cigars. No. 74,022; June 8; Gaz. vol. 143; p. 558.  
 Newburger & Bro., L., Cincinnati, Ohio. Cigars. No. 74,568; July 20; Gaz. vol. 144; p. 815.  
 Newport Rolling Mill Co., Newport, Ky. Open-hearth sheets of iron and steel. No. 74,146; June 22; Gaz. vol. 143; p. 1104.  
 Newton, V. M., Montclair, N. J. Certain named articles of food. No. 75,127; Sept. 7; Gaz. vol. 146; p. 251.  
 Niagara Chemical Company, Buffalo, N. Y. Hair-tonic. No. 76,256; Dec. 28; Gaz. vol. 149; p. 1117.  
 Niagara Silk Mills, North Tonawanda, N. Y. Silk gloves. Nos. 72,562-3; Feb. 2; Gaz. vol. 139; p. 194.  
 Nickelsburg, S., New York, N. Y. Collar and cuff protectors. No. 74,479; July 13; Gaz. vol. 144; p. 559.  
 Nicola, K. & S., New York, N. Y. Razors. No. 74,693; Aug. 3; Gaz. vol. 145; p. 251.



*Alphabetical list of registrants of trade-marks—Continued.*

- Nippon Shoyu Jozo Kabushiki Kaisha, Sunamura, Tokyo, Japan. Japanese soy and sauce. No. 74,323; July 6; Gaz. vol. 144; p. 271.  
 Nippon Shoyu Jozo Kabushiki Kaisha, Sunamura, Tokyo, Japan. Japanese soy and sauce. No. 74,325; July 6; Gaz. vol. 144; p. 271.  
 Nippon Shoyu Jozo Kabushiki Kaisha, Sunamura, Tokyo, Japan. Japanese soy and sauce. No. 74,349; July 6; Gaz. vol. 144; p. 272.  
 Nix, R. W., Charleston, S. C. Remedy for headache. No. 76,125; Dec. 14; Gaz. vol. 149; p. 598.  
 Norman, C. E., Chicago, Ill. Fluid-valves. No. 73,376; Apr. 13; Gaz. vol. 141; p. 563.  
 Norristown Magnesia & Asbestos Company, Norristown, Pa. Asbestos composition. No. 72,382; Jan. 19; Gaz. vol. 138; p. 765.  
 North Dighton Co-operative Store Co., Taunton, Mass. Stoves, ranges, and furnaces. No. 74,638; July 27; Gaz. vol. 144; p. 1086.  
 North Fork Fruit Growers Association, Paonia, Colo. Fruits. No. 75,995; Dec. 7; Gaz. vol. 149; p. 305.  
 North & Judd Manufacturing Company, New Britain, Conn. Saddlers' and harness-makers' hardware. No. 75,336; Sept. 21; Gaz. vol. 146; p. 717.  
 North Wayne Tool Company, Hallowell, Me. Scythes, grass-hooks, hay-knives, and hedge-trimmers. No. 73,625; May 4; Gaz. vol. 142; p. 284.  
 Northern Shoe Co., Duluth, Minn. Men's and boys' leather boots and shoes. No. 75,943; Nov. 30; Gaz. vol. 148; p. 1339.  
 Northern Shoe Co., Duluth, Minn. Infants' and children's leather shoes. No. 75,944; Nov. 30; Gaz. vol. 148; p. 1339.  
 Northrop, D. W., Boston, Mass. Shoe-cloth. No. 74,205; June 22; Gaz. vol. 143; p. 1105.  
 Northwestern Expanded Metal Company, Chicago, Ill. Expanded metal. No. 74,023; June 8; Gaz. vol. 143; p. 558.  
 Northwestern Fisheries Company, Seattle, Wash. Canned salmon. No. 73,599; May 4; Gaz. vol. 142; p. 283.  
 Norton & Curd Coffee Co., Louisville, Ky. Blended coffee. No. 76,080; Dec. 14; Gaz. vol. 149; p. 597.  
 Norton Pratt Co., Memphis, Tenn. Cotton goods in the piece. No. 72,165; Jan. 5; Gaz. vol. 138; p. 253.  
 Norvell-Shapleigh Hardware Company, St. Louis, Mo. Enameled sheet-metal ware. No. 72,231; Jan. 12; Gaz. vol. 138; p. 523.  
 Norvell Shapleigh Hardware Company, St. Louis, Mo. Magazines. No. 74,889; Aug. 17; Gaz. vol. 145; p. 760.  
 Norvell-Shapleigh Hardware Company, St. Louis, Mo. Enameled metal ware. No. 76,126; Dec. 14; Gaz. vol. 149; p. 598.  
 Norvell-Shapleigh Hardware Company, St. Louis, Mo. Certain sporting goods. No. 76,127; Dec. 14; Gaz. vol. 149; p. 598.  
 Norvell-Shapleigh Hardware Company, St. Louis, Mo. Horse-clippers. No. 76,213; Dec. 28; Gaz. vol. 149; p. 1115.  
 Norwine Coffee Company, St. Louis, Mo. Coffee. No. 75,283; Sept. 21; Gaz. vol. 146; p. 715.  
 Norwine Coffee Company, St. Louis, Mo. Blended coffee. No. 75,814; Nov. 16; Gaz. vol. 148; p. 828.  
 Nosek, R., Cleveland, Ohio. Flavoring for soups. No. 75,612; Oct. 26; Gaz. vol. 147; p. 1031.  
 Novelty Incandescent Lamp Co., Emporium, Pa. Incandescent electric lamps. No. 72,407; Jan. 26; Gaz. vol. 138; p. 959.  
 Novelty Manufacturing Company, Jackson, Mich. Oil, gas, and vapor stoves. No. 75,729; Nov. 9; Gaz. vol. 148; p. 565.  
 Nungesser Electric Battery Co., Cleveland, Ohio. Electrical dry batteries. No. 74,890; Aug. 17; Gaz. vol. 145; p. 760.  
 Nunnally Company, Atlanta, Ga., and Birmingham, Ala. Candy. No. 72,383; Jan. 19; Gaz. vol. 138; p. 765.  
 O. C. Hansen Manufacturing Co., Milwaukee, Wis. Leather gloves. No. 72,132; Jan. 5; Gaz. vol. 138; p. 252.  
 O. C. S. Olsen Co., Chicago, Ill. Sectional bookcases. No. 72,878; Mar. 2; Gaz. vol. 140; p. 250.  
 O'Neill-Adams Co., New York, N. Y. Coffee. No. 75,876; Nov. 23; Gaz. vol. 148; p. 1082.  
 Oakes & Dow Co., Boston, Mass. Spark-plugs. No. 73,377; Apr. 13; Gaz. vol. 141; p. 563.  
 Oakley, J. T., Colerain, N. C. Remedy for diphtheria. No. 74,954; Aug. 24; Gaz. vol. 145; p. 1017.  
 Oakford and Fahnestock, Peoria, Ill. Certain chemical preparations. No. 74,569; July 20; Gaz. vol. 144; p. 815.  
 Oakland Chemical Company, New York, N. Y. Preparation of hydrogen dioxid used as an antiseptic and disinfectant. No. 75,613; Oct. 26; Gaz. vol. 147; p. 1031.  
 Odorless Chemical Co., Providence, R. I. Cleansing deodorizing antiseptic toilet wash for external application. No. 74,417; July 13; Gaz. vol. 144; p. 557.  
 Oelrich & Laux, Incorp., Chicago, Ill. Certain saccharine foods. No. 74,595; July 27; Gaz. vol. 144; p. 1085.  
 Ogden Pharmaceutical Company, Ogden, Utah. Ointment for certain diseases. No. 74,868; Aug. 17; Gaz. vol. 145; p. 759.  
 Ohio Ink Manufacturing Company, Cincinnati, Ohio. Printing-inks. No. 73,152; Mar. 23; Gaz. vol. 140; p. 997.  
 Ohio Knitting Mills Co., Toledo, Ohio. Certain knit goods. No. 73,210; Mar. 30; Gaz. vol. 140; p. 1203.  
 Ohio Knitting Mills Company, Toledo, Ohio. Certain clothing. No. 73,477; Apr. 20; Gaz. vol. 141; p. 863.  
 Ohio Malleable Iron Company, Columbus, Ohio. Milling-stars. No. 75,169; Sept. 7; Gaz. vol. 146; p. 252.  
 Ohio Valley Bending Co., Parkersburg and Robinia, W. Va. Certain carriage and wagon parts. No. 74,694; Aug. 3; Gaz. vol. 145; p. 251.  
 Okanogan Canning Co., Okanogan, Wash. Canned fruits and vegetables. No. 75,444; Oct. 5; Gaz. vol. 147; p. 231.  
 Old Bleach Linen Company, Limited, Randalstown, Ireland. Linen piece goods. No. 72,621; Feb. 9; Gaz. vol. 139; p. 457.  
 Oleshak, R. A., Uniontown, Pa. Pomade. No. 72,720; Feb. 16; Gaz. vol. 139; p. 725.  
 Oliver Chilled Plow Works, South Bend, Ind. Plows and parts thereof. Nos. 72,429-34; Jan. 26; Gaz. vol. 138; p. 960.  
 Oliver-Finnie Co., Memphis, Tenn. Blended coffee. No. 73,110; Mar. 16; Gaz. vol. 140; p. 752.  
 Oliver-Finnie Co., Memphis, Tenn. Vinegar. No. 73,111; Mar. 16; Gaz. vol. 140; p. 752.  
 Oliver, I., New York, N. Y. Gloves. No. 72,166; Jan. 5; Gaz. vol. 138; p. 253.  
 Ollarin, E., Philadelphia, Pa. Rheumatism remedy. No. 75,625; Oct. 26; Gaz. vol. 147; p. 1032.  
 Olney, E. W., New York, N. Y. Antiseptic tooth-powder. No. 73,378; Apr. 13; Gaz. vol. 141; p. 563.  
 Olsen, I. O., Barron, Wis. Cows, horses, and mules. No. 75,094; Aug. 31; Gaz. vol. 145; p. 1247.  
 Omega Chemical Company, New York, N. Y. Remedy for skin diseases. No. 75,626; Oct. 26; Gaz. vol. 147; p. 1032.  
 Oneida Community, Limited, Oneida, N. Y. Chains. Nos. 75,128-9; Sept. 7; Gaz. vol. 146; p. 251.  
 Openhym & Sons, W., New York, N. Y. Ribbons. No. 72,289; Jan. 12; Gaz. vol. 138; p. 525.  
 Oppenheim, Oberndorf & Co., Baltimore, Md. Certain clothing. No. 72,435; Jan. 26; Gaz. vol. 138; p. 960.  
 Oppenheimer & Co., A., London, England. Tobacco-pipes. No. 75,646; Oct. 26; Gaz. vol. 147; p. 1032.  
 Oppenheimer & Levy, S., New York, N. Y. Chiffon veillings. No. 72,773; Feb. 16; Gaz. vol. 139; p. 727.  
 Oppel & Levinson, New York, N. Y. Silk scarfs and cravats. No. 72,756; Feb. 16; Gaz. vol. 139; p. 726.  
 Optische Werke Cassel Carl Schütz & Co., Cassel, Germany. Certain named scientific appliances and parts thereof. No. 74,913; Aug. 17; Gaz. vol. 145; p. 760.  
 Original Sun Confectionery Co., New York, N. Y. Chocolates, bonbons, and ice-cream. No. 72,908; Mar. 2; Gaz. vol. 140; p. 251.  
 Orme Rice Packing Co., New Orleans, La. Rice. No. 72,314; Jan. 19; Gaz. vol. 138; p. 763.  
 Ormsby-Morris Company, Waterford, N. Y. Mercerized knitted cotton fabric. No. 73,454; Apr. 20; Gaz. vol. 141; p. 862.  
 Orr Bros., Clay Center, Nebr. Wheat-flour. No. 73,112; Mar. 16; Gaz. vol. 140; p. 752.  
 Orrville Milling Co., Orrville, Ohio. Wheat-flour. No. 75,513; Oct. 12; Gaz. vol. 147; p. 513.  
 Orrville Milling Co., Orrville, Ohio. Wheat-flour. No. 75,581; Oct. 19; Gaz. vol. 147; p. 768.  
 Ortega Land Company, San Francisco, Cal. Candy. No. 75,815; Nov. 16; Gaz. vol. 148; p. 828.  
 Orton, I. F., assignor to Interstate Chemical Company, Galveston, Tex. Weed and grass destroyer. No. 73,626; May 4; Gaz. vol. 142; p. 284.  
 Osakis Milling Company, Osakis, Minn. Wheat-flour. No. 76,200; Dec. 28; Gaz. vol. 149; p. 1115.  
 Osborne, Bauer & Cheeseman, London, England. Toilet preparation. No. 73,339; Apr. 13; Gaz. vol. 141; p. 562.  
 Osburn, R. C., Philadelphia, Pa. White and colored writing-paper. No. 72,930; Mar. 2; Gaz. vol. 140; p. 252.  
 Oscar Barnett Foundry Co., Newark, N. J. Mechanical stokers for furnaces. No. 72,254; Jan. 12; Gaz. vol. 138; p. 524.  
 Osgood, A. Z., McKeesport, Pa. Cigars. No. 73,166; Mar. 23; Gaz. vol. 140; p. 997.  
 Osterweis & Co., D., New York, N. Y. Certain named clothing. No. 75,008; Aug. 24; Gaz. vol. 145; p. 1019.  
 Ostheimer Brothers, Philadelphia, Pa. Suspenders, garters, and belts. No. 74,778; Aug. 10; Gaz. vol. 145; p. 507.  
 Otto Weiss Alfalfa Stock Food Co., Wichita, Kans. Stock food. No. 75,130; Sept. 7; Gaz. vol. 146; p. 251.  
 Overland Automobile Company, Indianapolis, Ind. Automobiles. No. 72,436; Jan. 26; Gaz. vol. 138; p. 960.  
 Owl Drug Co., San Francisco, Cal. Salves, lotions, face-creams, poison-oak remedies, &c. No. 75,770; Nov. 16; Gaz. vol. 148; p. 827.  
 Oxford Linen Mills, North Brookfield, Mass. Towels. No. 73,869; May 25; Gaz. vol. 142; p. 1110.  
 Oxygen Products Company, New York, N. Y. Peroxid cream. No. 75,669; Nov. 2; Gaz. vol. 148; p. 275.  
 Ozark Pottery Company, St. Louis, Mo. Certain earthenware articles. No. 76,037; Dec. 7; Gaz. vol. 149; p. 306.  
 Ozark Pottery Company, St. Louis, Mo. Statuary, bas-reliefs, and statuettes. No. 76,038; Dec. 7; Gaz. vol. 149; p. 306.  
 Ozo Remedy Company, New Brighton, Pa. Remedy for certain diseases. No. 76,257; Dec. 28; Gaz. vol. 149; p. 1117.  
 P. San Martin & Co., Tampa, Fla. Cigars. No. 74,184; June 22; Gaz. vol. 143; p. 1105.  
 P. Welty & Co., Wheeling, W. Va. Whisky. No. 75,376; Sept. 28; Gaz. vol. 146; p. 953.  
 P. R. Mitchell Company, Cincinnati, Ohio. Feather pillows. No. 75,026; Aug. 24; Gaz. vol. 145; p. 1019.  
 Pabst Brewing Company, Milwaukee, Wis. Beer. No. 74,480; July 13; Gaz. vol. 144; p. 559.  
 Pacific Coast Syrup Co., San Francisco, Cal. Syrup. No. 74,147; June 22; Gaz. vol. 143; p. 1104.  
 Pacific Mills, Lawrence and Boston, Mass. Crape cloth. No. 74,350; July 6; Gaz. vol. 144; p. 272.  
 Pacific Novelty Company, New York, N. Y. Hair ornaments, combs, and the like. No. 74,956; Aug. 24; Gaz. vol. 145; p. 1017.  
 Pacific Novelty Company, New York, N. Y. Hair-pins and combs. No. 76,195; Dec. 28; Gaz. vol. 149; p. 1115.  
 Packard & Field, Brockton, Mass. Leather boots and shoes. No. 72,384; Jan. 19; Gaz. vol. 138; p. 765.  
 Packard Motor Car Company, Detroit, Mich. Oil and gas lamps for motor-vehicles. No. 73,034; Mar. 9; Gaz. vol. 140; p. 503.  
 Packard Motor Car Company, Detroit, Mich. Oils and greases. Nos. 73,048-9; Mar. 9; Gaz. vol. 140; p. 503.  
 Page Belting Company, Concord, N. H. Harness for horses. No. 73,554; Apr. 27; Gaz. vol. 141; p. 1159.



*Alphabetical list of registrants of trade-marks—Continued.*

- Page, W. H., Rogersville, Ala. Salve. No. 74,869; Aug. 17; Gaz. vol. 145; p. 759.
- Palazzolo, J., New York, N. Y. Perfumery. No. 75,771; Nov. 16; Gaz. vol. 148; p. 827.
- Palmer, L. M., Brooklyn, N. Y. Lime. No. 76,214; Dec. 28; Gaz. vol. 149; p. 1115.
- Palmer School and Infirmary of Chiropractic, Davenport, Iowa. Magazines. No. 74,779; Aug. 10; Gaz. vol. 145; p. 507.
- Palócz, L., Budapest, Austria-Hungary. Inhalers. No. 73,282; Apr. 6; Gaz. vol. 141; p. 282.
- Palotay de Várpalota, R. and O. von, Budapest, Austria-Hungary. Natural Hungarian aperient water. No. 73,759; May 18; Gaz. vol. 142; p. 851.
- Pantazelos, P. S., West Somerville and Boston, Mass. Grecian olive-oil. No. 74,481; July 13; Gaz. vol. 144; p. 559.
- Pape, Thompson & Pape, Cincinnati, Ohio. Medicinal preparations for certain diseases. No. 72,470; Jan. 26; Gaz. vol. 138; p. 961.
- Paquin, R. J., Curtis, Nebr. Insecticide. No. 75,772; Nov. 16; Gaz. vol. 148; p. 827.
- Paraffine Paint Co., San Francisco, Cal. Felt roofing and building and sheathing papers. No. 72,496; Jan. 26; Gaz. vol. 138; p. 962.
- Paraffine Paint Co., San Francisco, Cal. Asphalt-base paints. No. 73,396; Apr. 13; Gaz. vol. 141; p. 563.
- Paraffine Paint Co., San Francisco, Cal. Waterproof roofings and building-papers. No. 75,095; Aug. 31; Gaz. vol. 145; p. 1247.
- Paris, Allen & Company, New York, N. Y. Straight rye whisky. No. 75,716; Nov. 9; Gaz. vol. 148; p. 565.
- Paris Medicine Company, St. Louis, Mo. Antiseptic powder. No. 73,523; Apr. 27; Gaz. vol. 141; p. 1158.
- Park Bros. & Rogers, Providence, R. I. Cuff buttons and links. No. 74,351; July 6; Gaz. vol. 144; p. 272.
- Park & Tilford, New York, N. Y. Blended coffee. No. 72,748; Feb. 16; Gaz. vol. 139; p. 726.
- Park & Tilford, New York, N. Y. Cigars. No. 73,886; May 25; Gaz. vol. 142; p. 1111.
- Park & Tilford, New York, N. Y. Cigars, cigarettes, and smoking-tobacco. No. 74,661; July 27; Gaz. vol. 144; p. 1087.
- Park & Tilford, New York, N. Y. Wines. No. 74,990; Aug. 24; Gaz. vol. 145; p. 1018.
- Parker-Browne Co., Fort Worth, Tex. Fruit flavors for non-alcoholic beverages. No. 72,931; Mar. 2; Gaz. vol. 140; p. 252.
- Parker-Browne Company, Fort Worth, Tex. Carbonated tonic beverage and syrup therefor. No. 72,662; Feb. 9; Gaz. vol. 139; p. 458.
- Parker Chemical Company, Chicago, Ill. Solid germicide or disinfecting composition. No. 74,294; June 29; Gaz. vol. 143; p. 1341.
- Parker Manufacturing Company, assignor to Heaton-Peninsular Button Fastener Company, Boston, Mass. Staple-like metallic fasteners. No. 76,155; Dec. 21; Gaz. vol. 149; p. 829.
- Parks, G. M., Willows, Cal. Remedies for certain diseases. No. 72,846; Mar. 2; Gaz. vol. 140; p. 249.
- Paroubek, B. A., Plainfield, N. J. Finger-badges. Nos. 74,870-1; Aug. 17; Gaz. vol. 145; p. 759.
- Parish Brothers, Inc., Baltimore, Md. Pepper, spices, and tapioca. No. 76,185; Dec. 21; Gaz. vol. 149; p. 830.
- Parsons Hawkeye Mfg. Co., Newton, Iowa. Washing-machines. No. 72,183; Jan. 5; Gaz. vol. 138; p. 253.
- Parsons & Parsons Company, Cleveland, Ohio. Collars, cuffs, and shirt-fronts. No. 75,945; Nov. 30; Gaz. vol. 148; p. 1339.
- Pass & Seymour, Incorporated, Solvay, N. Y. Certain electrical goods. No. 72,721; Feb. 16; Gaz. vol. 139; p. 725.
- Pasteur Vaccine Company Limited, London, England, and Paris, France. Vaccine virus for animals. No. 75,773; Nov. 16; Gaz. vol. 148; p. 827.
- Pasteur Vaccine Company Limited, London, England, and Paris, France. Yeast. No. 75,816; Nov. 16; Gaz. vol. 148; p. 828.
- Peterson & Hoffman, Oklahoma, Okla. Cigars. No. 72,820; Feb. 23; Gaz. vol. 139; p. 986.
- Paul F. Beich Co., Bloomington, Ill. Chocolates. No. 75,514; Oct. 12; Gaz. vol. 147; p. 513.
- Paul G. Mehlin & Sons, New York, N. Y. Pianos. No. 72,564; Feb. 2; Gaz. vol. 139; p. 194.
- Pax Rieger & Co., San Francisco, Cal. Certain toilet preparations. No. 73,627; May 4; Gaz. vol. 142; p. 284.
- Pax Chemical Company, Oakland, Cal. Remedy for constipation. No. 75,284; Sept. 21; Gaz. vol. 146; p. 715.
- Paxton, W. A., Garnett, Kans. Healing-salve. No. 72,608; Feb. 9; Gaz. vol. 139; p. 457.
- Payette, G. N., Washington, D. C. Remedy for the treatment of eczema and other skin diseases. No. 74,326; July 6; Gaz. vol. 144; p. 271.
- Pe-Co-Pop Co. of Baltimore City, Baltimore, Md. Confection comprising a combination of nuts, popcorn, and syrup. No. 72,586; Feb. 2; Gaz. vol. 139; p. 195.
- Pearson, C., Springfield, Mass. Cigars. No. 72,988; Mar. 9; Gaz. vol. 140; p. 502.
- Pearson's Antiseptic Co. Limited, London, England. Disinfectant. No. 73,478; Apr. 20; Gaz. vol. 141; p. 863.
- Pearson's Antiseptic Co. Limited, London, England. Combination of eugenol and albumen. No. 74,662; July 27; Gaz. vol. 144; p. 1087.
- Peck Bros. & Co., New Haven, Conn. Certain plumbing supplies. No. 74,206; June 22; Gaz. vol. 143; p. 1105.
- Peck, Ercan & Co., Limited, London, England. Certain foods. No. 73,181; Mar. 23; Gaz. vol. 140; p. 998.
- Peerless Parting Company, Chicago, Ill. Parting material for foundry use. No. 73,769; May 18; Gaz. vol. 142; p. 851.
- Peerless Rubber Manufacturing Company, New York, N. Y. Hose and machinery packing composed of rubber or rubber and fabric. No. 72,471; Jan. 26; Gaz. vol. 138; p. 961.
- Peerless Rubber Manufacturing Company, New York, N. Y. Hose composed of rubber or rubber and fabric. No. 72,497; Jan. 26; Gaz. vol. 138; p. 962.
- Peerless Rubber Manufacturing Company, New York, N. Y. Belting and hose. No. 72,565; Feb. 2; Gaz. vol. 139; p. 194.
- Peerless Rubber Manufacturing Company, New York, N. Y. Machinery packing. No. 72,566; Feb. 2; Gaz. vol. 139; p. 194.
- Peerless Rubber Manufacturing Company, New York, N. Y. Belting and machinery packing. No. 72,567; Feb. 2; Gaz. vol. 139; p. 194.
- Peerless Rubber Manufacturing Company, New York, N. Y. Hose and machinery packing. No. 72,568; Feb. 2; Gaz. vol. 139; p. 194.
- Peerless Rubber Manufacturing Company, New York, N. Y. Hose and packing. No. 72,569; Feb. 2; Gaz. vol. 139; p. 194.
- Peerless Rubber Manufacturing Company, New York, N. Y. Rubber hose. No. 72,587; Feb. 2; Gaz. vol. 139; p. 195.
- Peerless Rubber Manufacturing Company, New York, N. Y. Rubber hose. Nos. 72,663-4; Feb. 9; Gaz. vol. 139; pp. 458-9.
- Peerless Rubber Manufacturing Company, New York, N. Y. Hose. No. 72,665; Feb. 9; Gaz. vol. 139; p. 450.
- Peerless Rubber Manufacturing Company, New York, N. Y. Rubber hose. Nos. 72,666-7; Feb. 9; Gaz. vol. 139; p. 459.
- Peerless Rubber Manufacturing Company, New York, N. Y. Rubber hose. Nos. 72,668-9; Feb. 9; Gaz. vol. 139; p. 459.
- Peerless Rubber Manufacturing Company, New York, N. Y. Belting and hose. No. 72,689; Feb. 9; Gaz. vol. 139; p. 459.
- Peerless Rubber Manufacturing Company, New York, N. Y. Machinery packing. No. 72,689; Feb. 9; Gaz. vol. 139; p. 459.
- Peerless Rubber Manufacturing Company, New York, N. Y. Belting, hose, and machinery packing. No. 72,879; Mar. 2; Gaz. vol. 140; p. 250.
- Peerless Rubber Manufacturing Company, New York, N. Y. Composition machinery packing containing asbestos. No. 72,880; Mar. 2; Gaz. vol. 140; p. 250.
- Peerless Rubber Manufacturing Company, New York, N. Y. Belting. No. 73,141; Mar. 16; Gaz. vol. 140; p. 753.
- Peerless Rubber Manufacturing Company, New York, N. Y. Rubber hose. No. 76,258; Dec. 28; Gaz. vol. 149; p. 1117.
- Peerless Rubber Manufacturing Company, New Durlam, N. J., and New York, N. Y. Valves. No. 73,953; June 1; Gaz. vol. 143; p. 255.
- Belgram & Meyer, New York, N. Y. Silk piece goods and silk ribbons. No. 75,131; Sept. 7; Gaz. vol. 146; p. 251.
- Peiouse Electric Heater Co., Chicago, Ill. Electrically-heated apparatus for household use. No. 73,870; May 25; Gaz. vol. 142; p. 1110.
- Pen-Carbon Manifold Co., New Brunswick, N. J. Carbon-paper. No. 75,670; Nov. 2; Gaz. vol. 148; p. 275.
- Penick & Ford, Limited, Shreveport and New Orleans, La. Syrup. No. 75,132; Sept. 7; Gaz. vol. 146; p. 251.
- Penick & Ford, Limited, Shreveport and New Orleans, La. Molasses. No. 75,133; Sept. 7; Gaz. vol. 146; p. 251.
- Penn Tobacco Co., Wilkes-Barre, Pa. Tobacco, cigars, and cigarettes. No. 75,285; Sept. 21; Gaz. vol. 146; p. 715.
- Penna. Lubricating Co., Pittsburg, Pa. Lubricating-greases. No. 75,686; Nov. 2; Gaz. vol. 148; p. 276.
- Pennsylvania Chocolate Company, Pittsburg, Pa. Chocolate and cocoa. No. 73,379; Apr. 13; Gaz. vol. 141; p. 563.
- Pennsylvania Dental Mfg. Co., Philadelphia, Pa. Artificial teeth. No. 75,214; Sept. 14; Gaz. vol. 146; p. 502.
- Pennsylvania Furnace & Stove Co., Warren, Pa. Radiator-casings, stoves, and furnaces. No. 75,057; Aug. 31; Gaz. vol. 145; p. 1246.
- Pentler, S. J., Milwaukee, Wis. Leather shoes and slippers for ladies. No. 72,290; Jan. 12; Gaz. vol. 138; p. 525.
- Peres, D., Solingen, Germany. Certain cutlery. No. 72,302; Jan. 12; Gaz. vol. 138; p. 525.
- Perfect Safety Paper Company, Franklin, Ohio. Safety-paper. No. 73,479; Apr. 20; Gaz. vol. 141; p. 863.
- Perfection Biscuit Company, Fort Wayne, Ind. Cookies. No. 75,445; Oct. 5; Gaz. vol. 147; p. 231.
- Perret, Gros & Million, Lyon, France. Tulles, muslins, crapes, and silks. No. 72,821; Feb. 23; Gaz. vol. 139; p. 986.
- Perrin & Cie., V., New York and Gloversville, N. Y., and Grenoble, France. Leather gloves. Nos. 74,670-1; July 27; Gaz. vol. 144; p. 1087.
- Person, A., Charlotte, N. C. Remedies for certain diseases. No. 72,472; Jan. 26; Gaz. vol. 138; p. 961.
- Peter, A. H., New York, N. Y. Alkaline solution of hypobromite. No. 74,148; June 22; Gaz. vol. 143; p. 1104.
- Peter Woll & Sons Feather Company, Philadelphia, Pa. Feathers. Nos. 74,834-5; Aug. 10; Gaz. vol. 145; p. 509.
- Peters and Co., B., Brooklyn, N. Y. Newspaper. No. 74,836; Aug. 10; Gaz. vol. 145; p. 509.
- Peters, M. C., Omaha, Nebr. Alfalfa-meal or ground hay used as a stock food. No. 72,989; Mar. 9; Gaz. vol. 140; p. 502.
- Petersen J. F., Jersey City, N. J. Eczema-ointment. No. 72,255; Jan. 12; Gaz. vol. 138; p. 524.
- Pfister & Vogel Leather Company, Milwaukee, Wis. Leather. No. 75,582; Oct. 19; Gaz. vol. 147; p. 768.
- Pharmacie Humanitaire De Paris, San Francisco, Cal. Remedy for gonorrhea, gleet, syphilis, spermatorrhea, and debility. No. 73,299; Apr. 6; Gaz. vol. 141; p. 283.
- Phenix Cheese Co., New York, N. Y. Imported Camembert cheese. No. 72,669; Feb. 9; Gaz. vol. 139; p. 459.
- Phoenix Glass Company, New York, N. Y. Glass shades and globes. No. 73,035; Mar. 9; Gaz. vol. 140; p. 503.
- Phil. Herold Co., San Jose, Cal. Leather shoes. No. 72,437; Jan. 26; Gaz. vol. 138; p. 960.
- Phila. Grease Mfg. Co., Philadelphia, Pa. Lubricating-grease. No. 75,970; Nov. 30; Gaz. vol. 148; p. 1340.
- Philadelphia Watch Case Co., Riverside, N. J. Watches, watchcases, and watch-movements. No. 75,144; Sept. 7; Gaz. vol. 146; p. 252.
- Philip H. Postel Milling Company, Mascoutah, Ill. Wheat-flour. Nos. 72,803-5; Feb. 23; Gaz. vol. 139; p. 985.



*Alphabetical list of registrants of trade-marks—Continued.*

- Philip H. Postel Milling Company, Mascoutah, Ill. Wheat-flour. No. 73,682; May 11; Gaz. vol. 142; p. 563.
- Philip Morris & Co., Ltd., New York, N. Y. Cigarettes. No. 73,954; June 1; Gaz. vol. 143; p. 255.
- Phillips & Crailé, Tappahannock, Va. Canned fruits and vegetables. No. 73,871; May 25; Gaz. vol. 142; p. 1110.
- Phillips & Sons, G., London, England. Smoking-tobacco, cigars, and cigarettes. No. 74,352; July 6; Gaz. vol. 144; p. 272.
- Phone-Hear-Plan Company, New York, N. Y. Telephone instruments. No. 74,695; Aug. 3; Gaz. vol. 145; p. 251.
- Piel Bro's, Brooklyn, N. Y. Beer. No. 73,480; Apr. 20; Gaz. vol. 141; p. 863.
- Pierce, Butler & Pierce Manufacturing Company, Syracuse, N. Y. Air-valves for radiators. No. 72,167; Jan. 5; Gaz. vol. 138; p. 253.
- Pike Manufacturing Company, Pike and Littleton, N. H.; Evansville, Vt.; Orleans, Ind.; Hot Springs, Ark., and New York, N. Y. Grinding-machines. No. 75,877; Nov. 23; Gaz. vol. 148; p. 1082.
- Pilof Cotton Mills Company, Raleigh, N. C. Cheviots, chambray, khaki, &c. No. 75,337; Sept. 21; Gaz. vol. 146; p. 717.
- Pingree Company, Detroit, Mich. Shoes made wholly or in part of leather. Nos. 72,522-3; Feb. 2; Gaz. vol. 139; p. 193.
- Pingree Company, Detroit, Mich. Shoes made wholly or in part of leather. No. 72,570; Feb. 2; Gaz. vol. 139; p. 194.
- Pingree Company, Detroit, Mich., and Cleveland, Ohio. Shoes made wholly or in part of leather. No. 73,340; Apr. 13; Gaz. vol. 141; p. 562.
- Piso Company, Warren, Pa. Cream for the complexion. Nos. 72,722-5; Feb. 16; Gaz. vol. 139; p. 725.
- Piso Company, Warren, Pa. Cream for the complexion. No. 72,822; Feb. 23; Gaz. vol. 139; p. 986.
- Piso Company, Warren, Pa. Cream for the complexion. No. 72,847; Mar. 2; Gaz. vol. 140; p. 249.
- Pittsburgh Crushed Steel Company, Pittsburgh, Pa. Crushed steel for use as an abrasive. No. 73,380; Apr. 13; Gaz. vol. 141; p. 563.
- Pivrotto, F. G., Pittsburgh, Pa. Macaroni and pure olive-oil. No. 74,955; Aug. 24; Gaz. vol. 145; p. 1017.
- Plant Rubber and Supply Co., San Francisco, Cal. Composition steam-packing. No. 73,142; Mar. 16; Gaz. vol. 140; p. 753.
- Planten, H. R., New York, N. Y. Remedy for certain diseases. No. 76,052; Dec. 7; Gaz. vol. 149; p. 307.
- Plaster Products Co., Hampton, Va. Plaster-boards. No. 72,749; Feb. 16; Gaz. vol. 139; p. 726.
- Platt, C., New York, N. Y. Garment-supporters. No. 75,446; Oct. 5; Gaz. vol. 147; p. 231.
- Plaut, J., Cincinnati, Ohio. Suspenders. No. 73,113; Mar. 16; Gaz. vol. 140; p. 752.
- Plough, A., Memphis, Tenn. Antiseptic healing-oil. No. 76,259; Dec. 28; Gaz. vol. 149; p. 1117.
- Plumb, C. L., New York, N. Y. Wheat-flour. No. 72,750; Feb. 16; Gaz. vol. 139; p. 726.
- Plumb, C. L., Cranford, N. J., and New York, N. Y. Wheat-flour. No. 72,932; Mar. 2; Gaz. vol. 140; p. 252.
- Plumb, C. L., Cranford, N. J., and New York, N. Y. Maize-meal. No. 74,696; Aug. 3; Gaz. vol. 145; p. 251.
- Plymouth Chair Company, Plymouth, Wis. Rocking-chairs. No. 74,237; June 29; Gaz. vol. 143; p. 1339.
- Plymouth Fur Co., Minneapolis, Minn. Fur clothing. No. 72,571; Feb. 2; Gaz. vol. 139; p. 194.
- Plymouth Fur Co., Minneapolis, Minn. Fur articles. No. 75,145; Sept. 7; Gaz. vol. 146; p. 252.
- Poe Manufacturing Company, New York, N. Y. Human and animal hair. No. 75,647; Oct. 26; Gaz. vol. 147; p. 1032.
- Poirier & Lindeman, New York, N. Y. Hair-nets. No. 74,596; July 27; Gaz. vol. 144; p. 1085.
- Polinsky, H., Philadelphia, Pa. Olive-oil. No. 72,806; Feb. 23; Gaz. vol. 139; p. 985.
- Pollen & Zoon, M. F., Rotterdam, Netherlands. Schiedam schnapps. No. 74,207; June 22; Gaz. vol. 143; p. 1105.
- Polson, N. O., Kingston, Ontario, Canada, and Hartford, Conn. Remedy for corns, warts, bunions, and callouses. No. 72,726; Feb. 16; Gaz. vol. 139; p. 725.
- Pomeran Chemical Co., Newark, N. J. Remedy for malaria, chills, fever, &c. No. 76,128; Dec. 14; Gaz. vol. 149; p. 599.
- Pomeroy & Fischer, New York, N. Y. Dry pigments for making paints. No. 73,572; May 25; Gaz. vol. 142; p. 1110.
- Pomeroy & Fischer, New York, N. Y. Certain painters' materials. No. 73,955; June 1; Gaz. vol. 143; p. 255.
- Pond's Bitters Co., Chicago, Ill. Compound of Jamaica ginger and California brandy. No. 72,335; Jan. 19; Gaz. vol. 138; p. 763.
- Pond's Bitters Co., Chicago, Ill. Rock and rye with hoarhound, and bitters. No. 72,336; Jan. 19; Gaz. vol. 138; p. 763.
- Pond's Bitters Co., Chicago, Ill. Ginger-gin, remedy for diseases of the bladder and kidneys. No. 74,418; July 13; Gaz. vol. 144; p. 557.
- Pontiac Shoe Mfg. Company, Pontiac, Ill. Certain shoes. No. 72,291; Jan. 12; Gaz. vol. 138; p. 525.
- Pontnewynydd Sheet and Galvanizing Company, Limited, London and Pontnewynydd, near Pontypool, England. Steel and iron sheets, both galvanized and black. No. 74,295; June 29; Gaz. vol. 143; p. 1341.
- Pontnewynydd Sheet and Galvanizing Company, Limited, London and Pontnewynydd, near Pontypool, England. Sheet-iron, galvanized or otherwise. No. 74,296; June 29; Gaz. vol. 143; p. 1341.
- Poor, E. E., Passaic, N. J. Handkerchiefs. No. 72,498; Jan. 26; Gaz. vol. 138; p. 962.
- Poor, E. E., Passaic, N. J. Handkerchiefs. No. 72,697; Feb. 9; Gaz. vol. 139; p. 459.
- Porcher, E. P., Cocoa, Fla. Oranges and grape-fruit. No. 72,232; Jan. 12; Gaz. vol. 138; p. 523.
- Port Richmond Fireworks Company, Jersey City, N. J., and New York, N. Y. Fire-crackers. No. 75,028; Aug. 24; Gaz. vol. 145; p. 1019.
- Porter & Berg, Chicago, Ill. Certain electrical apparatus. No. 72,168; Jan. 5; Gaz. vol. 138; p. 253.
- Porter, H. K., Everett, Mass. Bolt clippers or cutters. No. 74,534; July 20; Gaz. vol. 144; p. 814.
- Porter, J. P., Vancouver, Wash. Natural lithia-water. No. 72,233; Jan. 12; Gaz. vol. 138; p. 523.
- Porter Metal Manufacturing Company, Philadelphia, Pa. Certain named hardware. No. 74,914; Aug. 17; Gaz. vol. 145; p. 760.
- Portsmouth Stove & Range Co., Portsmouth, Ohio. Stoves, ranges, and parts thereof. No. 74,149; June 22; Gaz. vol. 143; p. 1104.
- Positipe Company, Cleveland, Ohio. Sensitized photographic materials. No. 73,381; Apr. 13; Gaz. vol. 141; p. 563.
- Positipe Company, Cleveland, Ohio. Sensitized photographic materials. No. 73,397; Apr. 13; Gaz. vol. 141; p. 563.
- Posterity Company, Newark, N. J. Fountain-brushes and parts thereof. No. 72,169; Jan. 5; Gaz. vol. 138; p. 253.
- Potter, G., Buffalo, N. Y. Powders and remedies for certain diseases. No. 74,663; July 27; Gaz. vol. 144; p. 1087.
- Pound-A-Minute Churn Company, New York, N. Y. Churns. No. 72,438; Jan. 26; Gaz. vol. 138; p. 960.
- Powell, A. W., New York, N. Y. Rain-hats or hat-protectors. No. 75,377; Sept. 28; Gaz. vol. 146; p. 953.
- Powell, A. W., New York, N. Y. Rain-coats and skirts for women. No. 75,447; Oct. 5; Gaz. vol. 147; p. 231.
- Powell-Sanders Co., Spokane, Wash. Certain foods. Nos. 73,757-8; May 18; Gaz. vol. 142; p. 851.
- Powell-Sanders Co., Spokane, Wash. Baking-powder. No. 74,837; Aug. 10; Gaz. vol. 145; p. 509.
- Powers Fountain Co. Inc., Montgomery, Ala. Soda-water fountains. No. 74,849; Aug. 10; Gaz. vol. 145; p. 509.
- Practicum Syndicate, Limited, Splottland, Cardiff, England. Veterinary remedy for distemper in dogs. No. 74,297; June 29; Gaz. vol. 143; p. 1341.
- Pratt-Low Preserving Company, Santa Clara, Cal. Canned fruits and vegetables. No. 74,697; Aug. 3; Gaz. vol. 145; p. 251.
- Premier Manufacturing Company, Limited, London, England. Cylinder and disk records. No. 72,881; Mar. 2; Gaz. vol. 140; p. 250.
- Press Publishing Company, Pittsburgh, Pa. Newspaper. No. 72,670; Feb. 9; Gaz. vol. 139; p. 459.
- Press Publishing Company, Pittsburgh, Pa. Daily newspaper. No. 72,671; Feb. 9; Gaz. vol. 139; p. 459.
- Pressed Steel Car Company, Pittsburgh, Pa. Railway-car trucks. No. 72,933; Mar. 2; Gaz. vol. 140; p. 252.
- Prest-O-Lite Company, Indianapolis, Ind. Preparations for removing carbon from cylinders, piston-rings, valves, &c., of automobiles and marine engines. No. 72,203; Jan. 5; Gaz. vol. 138; p. 254.
- Price & Lucas Cider & Vinegar Co., Louisville, Ky. Cider-vinegar. No. 72,757; Feb. 16; Gaz. vol. 139; p. 726.
- Prisma Polish Company. (See Radium Manufacturing Company, assignor.)
- Procter & Gamble Company, Ivorydale, Ohio; Kansas City, Kans.; New York, N. Y., and Cincinnati, Ohio. Soap for laundry use. Nos. 72,398-400; Jan. 26; Gaz. vol. 138; p. 959.
- Procter & Gamble Company, Ivorydale, Ohio; Kansas City, Kans.; New York, N. Y., and Cincinnati, Ohio. Soap for laundry use. No. 72,439; Jan. 26; Gaz. vol. 138; p. 959.
- Procter & Gamble Company, Ivorydale and Cincinnati, Ohio; Kansas City, Kans., and New York, N. Y. Soap. No. 73,069; Mar. 16; Gaz. vol. 140; p. 751.
- Procter & Gamble Company, Ivorydale and Cincinnati, Ohio; Kansas City, Kans., and New York, N. Y. Laundry soap. No. 75,058; Aug. 31; Gaz. vol. 145; p. 1246.
- Procter & Gamble Company, Ivorydale and Cincinnati, Ohio; Kansas City, Kans., and New York, N. Y. Laundry soap. Nos. 75,378-9; Sept. 28; Gaz. vol. 146; p. 954.
- Procter & Gamble Company, Ivorydale and Cincinnati, Ohio; Kansas City, Kans., and New York, N. Y. Cotton-seed oil. Nos. 75,448-51; Oct. 5; Gaz. vol. 147; pp. 231-2.
- Procter & Gamble Company, Ivorydale and Cincinnati, Ohio; Kansas City, Kans., and New York, N. Y. Soap. Nos. 76,091-2; Dec. 14; Gaz. vol. 149; pp. 597-8.
- Procter & Gamble Company, Ivorydale and Cincinnati, Ohio; Kansas City, Kans., and New York, N. Y. Laundry soap. No. 76,093; Dec. 14; Gaz. vol. 149; p. 598.
- Prophytol Dentifrice Co. (See Tyler, F. R., assignor.)
- Providence Dyeing Bleaching and Calendering Company, Providence, R. I. Cotton piece goods. No. 75,971; Nov. 30; Gaz. vol. 148; p. 1340.
- Prusz, F. F., assignor to Magic Cleaner Co., Centralia, Ill. Sweeping preparation. No. 72,807; Feb. 23; Gaz. vol. 139; p. 986.
- Pulsometer Steam Pump Co., New York, N. Y. Steam-pumps. No. 72,170; Jan. 5; Gaz. vol. 138; p. 253.
- Pure Food Canning Co., Le Roy, N. Y. Certain foods. No. 73,222; Mar. 30; Gaz. vol. 140; p. 1204.
- Purinton, C. L., Boston, Mass. Coffee. No. 74,482; July 13; Gaz. vol. 144; p. 559.
- Puritan Cordage Mills, Louisville, Ky. Sash-cord, twine, rope, bell-ropes, and clothes-line. No. 76,156; Dec. 21; Gaz. vol. 149; p. 829.
- Purity Fertilizer Co., Greenville, Ala. Fertilizers. No. 73,844; May 25; Gaz. vol. 142; p. 1109.



*Alphabetical list of registrants of trade-marks—Continued.*

- Purrington Company, Northampton, Mass. Certain toilet preparations. No. 73,981; June 8; Gaz. vol. 143; p. 557.
- Putman, H. J., Minneapolis, Minn. Leather boots and shoes. No. 73,663; May 11; Gaz. vol. 142; p. 563.
- Quaker Oats Company, Chicago, Ill.; Cedar Rapids, Iowa, and Akron, Ohio. Stock food. No. 75,059; Aug. 31; Gaz. vol. 145; p. 1246.
- Quality Cement Company, Fernwood, Pa. Glue and adhesive cements. No. 74,101; June 15; Gaz. vol. 143; p. 861.
- Queens Pharmaceutical Company, Elmhurst, N. Y. Certain plasters and medicines. No. 73,524; Apr. 27; Gaz. vol. 141; p. 1158.
- R. Twining & Co., Ltd., London, England. Tea, coffee, cocoa, and chocolate. No. 73,956; June 1; Gaz. vol. 143; p. 255.
- R. B. Davis Company, Hoboken, N. J., and New York, N. Y. Baking-powder. No. 74,973; Aug. 24; Gaz. vol. 145; p. 1018.
- R. C. Williams & Co., New York, N. Y. Certain foods. No. 73,965; June 1; Gaz. vol. 143; p. 255.
- R. E. Dietz Company, New York, N. Y. Flat-wick burners for oil-burning lamps and lanterns. No. 72,385; Jan. 19; Gaz. vol. 138; p. 765.
- R. E. Dietz Company, New York, N. Y. Sockets or holders for electric lamps. No. 73,957; June 1; Gaz. vol. 143; p. 255.
- R. E. Dietz Company, New York, N. Y. Acetylene-burners for use in vehicle-lamps. No. 75,235; Sept. 14; Gaz. vol. 146; p. 502.
- R. H. White Company, Boston, Mass. Boots, shoes, sandals, and slippers. No. 75,671; Nov. 2; Gaz. vol. 148; p. 275.
- R. J. Menz Lumber Co., Seattle, Wash. Shingles. No. 72,966; Mar. 9; Gaz. vol. 140; p. 501.
- R. L. McDonald Mfg. Co., St. Joseph, Mo. Overalls and jackets. No. 74,298; June 29; Gaz. vol. 143; p. 1341.
- R. M. Rose Co., Chattanooga, Tenn. Blended corn whisky. No. 72,337; Jan. 19; Gaz. vol. 138; p. 764.
- R. P. K. Pressed Metal Co., Bridgeport, Conn. Shoe-forms. No. 75,215; Sept. 14; Gaz. vol. 146; p. 502.
- R. & W. Jenkinson Company, Pittsburg, Pa. Cigars. No. 72,935; Mar. 2; Gaz. vol. 140; p. 252.
- R. & W. Jenkinson Company, Pittsburg, Pa. Cigars. No. 74,991; Aug. 24; Gaz. vol. 145; p. 1018.
- R. & W. Jenkinson Comp'y., Pittsburg, Pa. Cigars and stogies. No. 72,934; Mar. 2; Gaz. vol. 140; p. 252.
- Rabinowitz, J., New York, N. Y. Trousers. No. 74,509; July 20; Gaz. vol. 144; p. 813.
- Racine and Company, J., New York, N. Y. Watches and watch-movements. No. 72,572; Feb. 2; Gaz. vol. 139; p. 194.
- Rademacher, C. W., Hoboken, N. J. Beef-broth cubes. No. 74,327; July 6; Gaz. vol. 144; p. 271.
- Radiogen-Gesellschaft, M. B. H., Charlottenburg Germany. Physical devices and instruments for treating fluids with radio-active preparations. No. 73,648; May 4; Gaz. vol. 142; p. 285.
- Radium Manufacturing Company, New York, N. Y., assignor to Prisma Polish Company. Metal-polish used on jewelry and metal. No. 74,664; July 27; Gaz. vol. 144; p. 1087.
- Radke, A., Milwaukee, Wis. Medicinal tablets. No. 73,070; Mar. 16; Gaz. vol. 140; p. 751.
- Ragan, D. A., Leesburg, Ga. Remedy for certain diseases. No. 75,380; Sept. 28; Gaz. vol. 146; p. 954.
- Ramey, F. G., Dallas, Tex. Remedy for asthma and catarrh. No. 74,328; July 6; Gaz. vol. 144; p. 271.
- Randall Grape Juice Co., Ripley, N. Y. Unfermented grape-juice. No. 73,050; Mar. 9; Gaz. vol. 140; p. 503.
- Randleman, Z. S. & C. L., Des Moines, Iowa. Dish-washing machines. No. 72,823; Feb. 23; Gaz. vol. 139; p. 986.
- Randolph Fruit Company, Los Angeles, Cal. Oranges and lemons. Nos. 72,338-41; Jan. 19; Gaz. vol. 138; p. 764.
- Randolph Fruit Company, Los Angeles, Cal. Oranges and lemons. Nos. 72,588-9; Feb. 2; Gaz. vol. 139; p. 195.
- Randolph Fruit Company, Los Angeles, Cal. Oranges and lemons. No. 72,909; Mar. 2; Gaz. vol. 140; p. 251.
- Rapoport, J., New York, N. Y. Ladies' and misses' capes. No. 75,409; Sept. 28; Gaz. vol. 146; p. 954.
- Rashbaum Sons, J., Kansas City, Kans. Overalls. No. 75,320; Sept. 21; Gaz. vol. 146; p. 716.
- Ratcliff-Sanders Grocer Company, Tulsa, Okla. Certain foods. No. 75,751; Nov. 9; Gaz. vol. 148; p. 566.
- Ray-Shiner Manufacturing Company, Franklin, Mass. Insoles and slip-soles and stiffeners. No. 73,747; May 18; Gaz. vol. 142; p. 851.
- Redwood Co., New York, N. Y. Jams and marmalades. No. 73,455; Apr. 20; Gaz. vol. 141; p. 862.
- Reed, F. O., McKeesport, Pa. Leather shoes, oxfords, and slippers. No. 73,415; Apr. 20; Gaz. vol. 141; p. 861.
- Reese, E. C., Harrington, Del. Canned fruits and canned vegetables. No. 72,751; Feb. 16; Gaz. vol. 139; p. 726.
- Reese, F. C., Harrington, Del. Canned vegetables. No. 73,114; Mar. 16; Gaz. vol. 140; p. 752.
- Reeves, H. E., Chicago, Ill. Dust-pans. No. 73,783; May 18; Gaz. vol. 142; p. 852.
- Reeves, Parvin & Co., Philadelphia, Pa. Certain foods. No. 74,483; July 13; Gaz. vol. 144; p. 559.
- Reeves & Son, P. S., Philadelphia, Pa. Bronze ingots and castings. No. 73,683; May 11; Gaz. vol. 142; p. 563.
- Reeves & Son, P. S., Philadelphia, Pa. Bronze ingots and castings. No. 74,535; July 20; Gaz. vol. 144; p. 814.
- Reeves & Son, P. S., Philadelphia, Pa. Bronze ingots and castings. No. 75,544; Oct. 12; Gaz. vol. 147; p. 514.
- Regal Piano & Player Co., New York, N. Y. Interior player-piano mechanism. No. 72,622; Feb. 9; Gaz. vol. 139; p. 457.
- Regal Shoe Company, Portland, Me., and Boston, Mass. Leather boots and shoes. No. 74,389; July 6; Gaz. vol. 144; p. 273.
- Regent Shirt Company, New York, N. Y. Union suits, drawers, and undershirts. No. 75,878; Nov. 23; Gaz. vol. 148; p. 1082.
- Reichenbach & Co., New York, N. Y. Embroideries. No. 74,075; June 15; Gaz. vol. 143; p. 860.
- Reid & Co., A. L., New York, N. Y. Long-cloth. No. 73,308; Apr. 13; Gaz. vol. 141; p. 561.
- Reid-Edelmuth Manufacturing Co., Brooklyn, N. Y. Freezers. No. 75,790; Nov. 16; Gaz. vol. 148; p. 828.
- Reilly & Britton Company, Chicago, Ill. Books of fiction. No. 74,892; Aug. 17; Gaz. vol. 145; p. 760.
- Reilly, E. J., Baltimore, Md. Shoe-polish. No. 74,208; June 22; Gaz. vol. 143; p. 1105.
- Reilly, E. J., Baltimore, Md. Shoe-laces. No. 74,238; June 29; Gaz. vol. 143; p. 1339.
- Reilly, E. J., Baltimore, Md. Shoe-polish. No. 74,741; Aug. 3; Gaz. vol. 145; p. 253.
- Reilly, J. R., Philadelphia, Pa. Lubricant. No. 76,215; Dec. 28; Gaz. vol. 149; p. 1115.
- Reilly, P. C., Indianapolis, Ind. Materials for oiling and top-dressing roads. No. 73,958; June 1; Gaz. vol. 143; p. 255.
- Reilly, P. C., Indianapolis, Ind. Wood-block pavements. No. 74,891; Aug. 17; Gaz. vol. 145; p. 760.
- Reily-Taylor Company, New Orleans, La. Coffee. No. 75,410; Sept. 28; Gaz. vol. 146; p. 954.
- Reinkendorff, E. A., Canton, Ohio. Soap. No. 75,452; Oct. 5; Gaz. vol. 147; p. 232.
- Reiss Bros. & Co., Chicago, Ill. Pipes. No. 72,690; Feb. 9; Gaz. vol. 139; p. 459.
- Reiter & Co., A., Baltimore, Md. Canned vegetables and canned fruits. No. 72,234; Jan. 12; Gaz. vol. 138; p. 523.
- Reizenstein, S. H., Washington, D. C. Certain clothing. No. 74,390; July 6; Gaz. vol. 144; p. 273.
- Remien & Kuhnert Co., Chicago, Ill. Enamel paints. No. 73,782; May 18; Gaz. vol. 142; p. 852.
- Romy Schmidt & Pleissner, New York, N. Y. Certain textiles. No. 72,808; Feb. 23; Gaz. vol. 139; p. 986.
- Renfro Bros. Co., Chicago, Ill. Coffee. No. 73,382; Apr. 13; Gaz. vol. 141; p. 563.
- Renfro Bros. Co., Chicago, Ill. Tea. No. 73,398; Apr. 13; Gaz. vol. 141; p. 563.
- Renfro Bros. Co., Chicago, Ill. Blended roasted coffee. No. 73,555; Apr. 27; Gaz. vol. 141; p. 1158.
- Renkert & Co., A., Memphis, Tenn. Remedy for certain diseases. No. 75,907; Nov. 23; Gaz. vol. 148; p. 1083.
- Rennous Kleinle & Co. of Baltimore City, Baltimore, Md. Paint and varnish brushes. No. 72,256; Jan. 12; Gaz. vol. 138; p. 524.
- Rennous Kleinle & Co. of Baltimore City, Baltimore, Md. Painters' brushes. No. 72,573; Feb. 2; Gaz. vol. 139; p. 194.
- Republic Metalware Company, Buffalo, N. Y. Enamelled household-ware. No. 73,649; May 4; Gaz. vol. 142; p. 285.
- Resinol Chemical Co., Baltimore, Md. Ointment. No. 75,258; Sept. 14; Gaz. vol. 146; p. 503.
- Retail Grocers' Exchange of New York City, New York, N. Y. Teas. No. 74,742; Aug. 3; Gaz. vol. 145; p. 253.
- Rauss, P. A., Sheffield, England. Certain cutlery and tools. No. 73,088; Mar. 16; Gaz. vol. 140; p. 752.
- Reuter, L. H., Berkeley, Cal. Surgical splints, bandages, and plastic compositions. No. 74,665; July 27; Gaz. vol. 144; p. 1087.
- Revere Rubber Company, Boston, Mass. Belting, hose, and machinery packings. No. 72,809; Feb. 23; Gaz. vol. 139; p. 986.
- Rey aîné, Brussels, Belgium. Certain textiles. No. 74,265; June 29; Gaz. vol. 143; p. 1340.
- Reynolds Co., A. C., assignor to A. C. Reynolds Company, Baltimore, Md. Tooth-powder. No. 73,650; May 4; Gaz. vol. 142; p. 285.
- Reynoldsville Brick & Tile Co., Reynoldsville, Pa. Tiles and bricks. No. 74,743; Aug. 3; Gaz. vol. 145; p. 253.
- Rhodes, F. B., Washington, D. C. Badges and buckles and belt-pins for personal wear. No. 73,748; May 18; Gaz. vol. 142; p. 851.
- Rice & Hochster, New York, N. Y. Certain hair-pins, barrettes, combs, and hair-retainers. No. 72,473; Jan. 26; Gaz. vol. 138; p. 961.
- Rice & Hochster, New York, N. Y. Hair-pins, barrettes, combs, and hair-retainers. No. 73,134; Sept. 7; Gaz. vol. 146; p. 251.
- Rice & Hutchins, Incorporated, Boston, Mass. Card, block, and picture games. No. 72,824; Feb. 23; Gaz. vol. 139; p. 986.
- Rice & Hutchins, Incorporated, Boston, Mass. Shoes made in whole or in part of leather. Nos. 76,053; Dec. 7; Gaz. vol. 149; p. 307.
- Rich & Co., N. J., Cleveland, Ohio. Kilt scarfs. No. 74,698; Aug. 3; Gaz. vol. 145; p. 251.
- Richards and Hueter Company, Detroit, Mich. Leather shoes. No. 75,321; Sept. 21; Gaz. vol. 146; p. 716.
- Richardson & Boynton Co., New York, N. Y. Heating apparatus. No. 74,838; Aug. 10; Gaz. vol. 145; p. 509.
- Richardson Bros., Los Angeles, Cal. Coffee. No. 72,235; Jan. 12; Gaz. vol. 138; p. 523.
- Richmond Hosiery Mills, Chattanooga, Tenn., and Rossville, Ga. Hosiery. Nos. 75,730-2; Nov. 9; Gaz. vol. 148; p. 565.
- Richmond Hosiery Mills, Chattanooga, Tenn., and Rossville, Ga. Hosiery. No. 75,774; Nov. 16; Gaz. vol. 148; p. 827.
- Richmond Hosiery Mills, Chattanooga, Tenn., and Rossville, Ga. Hosiery. No. 75,879; Nov. 23; Gaz. vol. 148; p. 1082.
- Richmond Hosiery Mills, Chattanooga, Tenn., and Rossville, Ga. Hosiery. Nos. 75,996-7; Dec. 7; Gaz. vol. 149; p. 305.
- Rick, A. C., Dallas, Tex. Mattresses. No. 75,453; Oct. 5; Gaz. vol. 147; p. 232.
- Rickard-Gregory Shoe Co., Lynn, Mass. Leather boots and shoes. No. 74,780; Aug. 10; Gaz. vol. 145; p. 507.
- Riley & Dietrich, Rochester, N. Y. Butter. No. 73,600; May 4; Gaz. vol. 142; p. 284.
- Riordan, T. V., London, England. Aerated water. No. 75,146; Sept. 7; Gaz. vol. 146; p. 252.
- Ritter, F. A., Indianapolis, Ind. Liquid stove-polish. No. 73,575; May 4; Gaz. vol. 142; p. 283.
- Riverside Cotton Mills, Danville, Va. Cotton plaids and checks. Nos. 73,899-902; June 1; Gaz. vol. 143; p. 253.
- Riverside Cotton Mills, Danville, Va. Cotton plaids, checks, chevrons, &c. No. 73,903; June 1; Gaz. vol. 143; p. 253.



*Alphabetical list of registrants of trade-marks—Continued.*

- Riverside Cotton Mills, Danville, Va. Cotton plaids and checks. Nos. 73,904-8; June 1; Gaz. vol. 143; p. 253.  
 Riverside Cotton Mills, Danville, Va. Cotton plaids and checks. No. 74,049; June 15; Gaz. vol. 143; p. 859.  
 Riverside Cotton Mills, Danville, Va. Cotton shirts. No. 74,266; June 29; Gaz. vol. 143; p. 1340.  
 Riverside Cotton Mills, Danville, Va. Cotton plaids and checks. No. 75,484; Oct. 5; Gaz. vol. 147; p. 232.  
 Riverside Mills, Augusta, Ga. Cotton-waste. Nos. 72,386-7; Jan. 19; Gaz. vol. 138; p. 765.  
 Rivkin Bros., Hartford, Conn. Wheat-flour and canned fruits and vegetables. No. 72,092; Jan. 5; Gaz. vol. 138; p. 251.  
 Roach Brothers, Fort Wayne, Ind. Washing-powder. No. 75,381; Sept. 28; Gaz. vol. 146; p. 954.  
 Robbins Lumbr Co., Rhinelander, Wis. Wood floorings. No. 74,024; June 8; Gaz. vol. 143; p. 558.  
 Robert A. Johnston Company, Milwaukee, Wis. Soda crackers and cookies. No. 74,050; June 15; Gaz. vol. 143; p. 859.  
 Robert A. Johnston Company, Milwaukee, Wis. Tea-biscuits. No. 74,051; June 15; Gaz. vol. 143; p. 859.  
 Robert B. Brown Oil Company, St. Louis, Mo. Cotton-seed oil. No. 74,150; June 22; Gaz. vol. 143; p. 1104.  
 Robert B. Brown Oil Company, St. Louis, Mo. Cotton-seed oil. No. 75,322; Sept. 21; Gaz. vol. 146; p. 716.  
 Robert Low's Son & Howard, New York, N. Y. Hair-ionic powders. No. 73,341; Apr. 13; Gaz. vol. 141; p. 562.  
 Robert Low's Son & Howard, Esopus, N. Y., and London, England. Adhesive cement. No. 75,791; Nov. 16; Gaz. vol. 148; p. 828.  
 Roberts, A. J., Milwaukee, Wis. Mexican coffee. No. 73,784; May 18; Gaz. vol. 142; p. 852.  
 Roberts, Johnson, & Rand Shoe Company, St. Louis, Mo. Leather boots and shoes. No. 73,664; May 11; Gaz. vol. 142; p. 563.  
 Roberts, Rook & Company, Westminster, Md. Wheat-flour. No. 75,216; Sept. 14; Gaz. vol. 146; p. 502.  
 Robertson, S. B. J., New Orleans, La. Belt-dressing. No. 72,524; Feb. 2; Gaz. vol. 139; p. 193.  
 Robertson & Sons, New York, Buffalo, and Rochester, N. Y. Shoe-polish. No. 76,032; Dec. 7; Gaz. vol. 149; p. 306.  
 Robeson Process Company, Camden, N. J.; Au Sable Forks and New York, N. Y., and Covington, Va. Liquid adhesive. No. 75,485; Oct. 5; Gaz. vol. 147; p. 232.  
 Robeson Process Company, Camden, N. J.; Au Sable Forks and New York, N. Y., and Covington, Va. Liquid for tanning. No. 75,486; Oct. 5; Gaz. vol. 147; p. 232.  
 Robeson Process Company, Camden, N. J.; Au Sable Forks and New York, N. Y., and Covington, Va. Liquid adhesive. No. 75,487; Oct. 5; Gaz. vol. 147; p. 232.  
 Robeson Process Company, Camden, N. J.; Au Sable Forks and New York, N. Y., and Covington, Va. Liquid for tanning. No. 75,488; Oct. 5; Gaz. vol. 147; p. 233.  
 Robin Hood Ammunition Co., Swanton, Vt. Loaded shotgun-shells. Nos. 72,388-9; Jan. 19; Gaz. vol. 138; p. 765.  
 Robinson-Straus & Co., St. Paul, Minn. Ladies' hats. No. 74,893; Aug. 17; Gaz. vol. 145; p. 760.  
 Robt. F. Mackenzie Co., Cleveland, Ohio. Candy. No. 75,096; Aug. 31; Gaz. vol. 145; p. 1247.  
 Rochester Germicide Company, Incorporated, Rochester, N. Y. Disinfectants. Nos. 74,419-20; July 13; Gaz. vol. 144; p. 557.  
 Rochester Germicide Company, Incorporated, Rochester, N. Y. Insecticides. No. 74,421; July 13; Gaz. vol. 144; p. 557.  
 Rock Island Sash & Door Works, Rock Island, Ill. Swinging doors. No. 75,648; Oct. 26; Gaz. vol. 147; p. 1032.  
 Rockwood Bros. Co., Chicago, Ill. Canned fruits, vegetables, and shrimps. No. 74,510; July 20; Gaz. vol. 144; p. 813.  
 Rockwood Chemical Company, Boston, Mass. Ointments, germicides, liniments, and hair-tonics. No. 75,983; Nov. 30; Gaz. vol. 148; p. 1340.  
 Rockwood & Company, New York, N. Y. Chocolate candies. No. 73,241; Apr. 6; Gaz. vol. 141; p. 281.  
 Rockwood Manufacturing Company, Indianapolis, Ind. Paper pulleys. No. 75,687; Nov. 2; Gaz. vol. 148; p. 276.  
 Roden Coal Company, Birmingham, Ala. Coal. No. 75,908; Nov. 23; Gaz. vol. 148; p. 1063.  
 Rodenbeck, C. C., Fort Wayne, Ind. Cigars and scrap-tobacco. No. 72,623; Feb. 9; Gaz. vol. 139; p. 457.  
 Röder, J., Union Hill, N. J. Pharmaceutical preparation for treatment of hair. No. 74,329; July 6; Gaz. vol. 144; p. 271.  
 Roderick Lean Manufacturing Co., Mansfield, Ohio. Cultivators, harrows, and drills. No. 74,299; June 29; Gaz. vol. 143; p. 1341.  
 Roessler & Hasslacher Chemical Co., New York, N. Y. Certain decorating and coloring materials. No. 72,171; Jan. 5; Gaz. vol. 138; p. 253.  
 Roessler & Hasslacher Chemical Co., New York, N. Y. Washing-powder. No. 73,192; Mar. 30; Gaz. vol. 140; p. 1203.  
 Roessler & Hasslacher Chemical Co., New York, N. Y. Washing-powder. No. 73,723; May 11; Gaz. vol. 142; p. 564.  
 Roessler & Hasslacher Chemical Co., New York, N. Y. Bleaching fluid. No. 75,545; Oct. 12; Gaz. vol. 147; p. 514.  
 Rogers, E. L., Springfield, Mass. Certain sporting goods. No. 72,936; Mar. 2; Gaz. vol. 140; p. 252.  
 Rogers, F. A., London, England. Insect-specific. No. 73,193; Mar. 30; Gaz. vol. 140; p. 1203.  
 Rogers, Holloway & Co., Philadelphia, Pa. Refined gum. No. 73,342; Apr. 13; Gaz. vol. 141; p. 562.  
 Rogers & Hubbard Co., Middletown, Conn. Bone buttons. No. 74,422; July 13; Gaz. vol. 144; p. 557.  
 Rogers & Thompson, West New York, N. J., and New York, N. Y. Rough-surfaced broad silk. No. 72,543; Feb. 2; Gaz. vol. 139; p. 194.  
 Rogers & Thompson, West New York, N. J., and New York, N. Y. Rough-surfaced broad silk. No. 72,624; Feb. 9; Gaz. vol. 139; p. 457.  
 Rogers & Thompson, West New York, N. J., and New York, N. Y. Rough-surfaced broad silk. No. 73,089; Mar. 16; Gaz. vol. 140; p. 752.  
 Rogers & Thompson, West New York, N. J., and New York, N. Y. Broad silk in the piece. No. 75,411; Sept. 28; Gaz. vol. 146; p. 954.  
 Rogers & Thompson, West New York, N. J., and New York, N. Y. Broad silk in the piece. No. 75,489; Oct. 5; Gaz. vol. 147; p. 233.  
 Rogers & Thompson, West New York, N. J., and New York, N. Y. Broad silk in the piece. No. 75,495; Oct. 5; Gaz. vol. 147; p. 233.  
 Rogers & Thompson, West New York, N. J., and New York, N. Y. Broad silk in the piece. No. 75,583; Oct. 19; Gaz. vol. 147; p. 768.  
 Rogers & Thompson, West New York, N. J., and New York, N. Y. Certain piece goods. No. 76,232; Dec. 28; Gaz. vol. 149; p. 1116.  
 Roggen Bros. & Co., New York, N. Y. Shirts. No. 75,135; Sept. 7; Gaz. vol. 146; p. 251.  
 Rolison-Schmidt, S., Fairground, N. Y. Remedy for certain diseases. No. 72,727; Feb. 16; Gaz. vol. 139; p. 725.  
 Rood Candy Co., Pueblo, Colo. Peanut-butter. No. 74,052; June 15; Gaz. vol. 143; p. 859.  
 Rose Brothers and Company, Lancaster, Pa. Folding umbrellas. No. 74,258; June 29; Gaz. vol. 143; p. 1340.  
 Rose Hill Medicine Co., Rose Hill, Va. Remedy for rheumatism. No. 75,323; Sept. 21; Gaz. vol. 146; p. 716.  
 Rose, Rodgers & Rose, Chicago, Ill. Coats, vests, trousers, and overcoats. No. 74,781; Aug. 10; Gaz. vol. 145; p. 507.  
 Rosemary Manufacturing Company, Roanoke Rapids, N. C. Cotton napkins. No. 72,825; Feb. 23; Gaz. vol. 139; p. 986.  
 Rosemary Manufacturing Company, Roanoke Rapids, N. C. Cotton damask. Nos. 72,826-7; Feb. 23; Gaz. vol. 139; p. 986.  
 Rosemary Manufacturing Company, Roanoke Rapids, N. C. Cotton napkins. No. 72,828; Feb. 23; Gaz. vol. 139; p. 986.  
 Rosemary Manufacturing Company, Roanoke Rapids, N. C. Cotton table tops or cloths. Nos. 73,199-200; Mar. 30; Gaz. vol. 140; p. 1203.  
 Rosenblatt, G. H., New York, N. Y. Lamp-burners. No. 74,536; July 20; Gaz. vol. 144; p. 814.  
 Rosenbush & Co., A. A., Boston, Mass. Leather boots and shoes. No. 72,882; Mar. 2; Gaz. vol. 140; p. 250.  
 Rosenfeld & Co., E., Baltimore, Md. Night-ropes, pajamas, overshirts, undershirts, and drawers. No. 72,574; Feb. 2; Gaz. vol. 139; p. 194.  
 Rosenheim Brothers Co., Philadelphia, Pa. Tapestries, draperies, and upholstering fabrics. No. 72,542; Feb. 2; Gaz. vol. 139; p. 194.  
 Rosenthal, S., New York, N. Y. Coats and overcoats. No. 75,454; Oct. 5; Gaz. vol. 147; p. 232.  
 Rossano & Bro., G., New York, N. Y. Lucca olive-oil. No. 72,758; Feb. 16; Gaz. vol. 139; p. 726.  
 Rossendale-Reddaway Belting & Hose Co., Newark, N. J. Woven or fabric belting, textile belting, and hose. No. 75,733; Nov. 9; Gaz. vol. 148; p. 565.  
 Rosseter & Wasserman, Inc., San Francisco, Cal. Candies. No. 74,151; June 22; Gaz. vol. 143; p. 1104.  
 Rotan Grocer Company, Waco, Tex. Cigars. No. 72,990; Mar. 9; Gaz. vol. 140; p. 502.  
 Rotan Grocer Company, Waco, Tex. Cigars. No. 73,051; Mar. 9; Gaz. vol. 140; p. 503.  
 Rothschild & Company, Chicago, Ill. Certain beverages. No. 72,390; Jan. 19; Gaz. vol. 138; p. 765.  
 Rottweiler, B. G. von, New Kensington, Pa. Automobiles. No. 72,108; Jan. 5; Gaz. vol. 138; p. 251.  
 Rouse, Hempstone & Co., Baltimore, Md. Certain clothing. No. 75,286; Sept. 21; Gaz. vol. 146; p. 719.  
 Royal Baking Powder Company, New York, N. Y. Baking-powder. No. 76,260; Dec. 28; Gaz. vol. 149; p. 1117.  
 Royal Battery Company, New York, N. Y. Certain electric supplies. No. 73,724; May 11; Gaz. vol. 142; p. 564.  
 Royal Equipment Company, Bridgeport, Conn. Brake-pads and clutch-pads for vehicle brakes and clutches. No. 74,306; June 29; Gaz. vol. 143; p. 1341.  
 Royal Worcester Corset Co., Worcester, Mass. Corsets. No. 73,063; Mar. 16; Gaz. vol. 140; p. 751.  
 Rudolph Wurlitzer Co., Cincinnati, Ohio. Guitars and mandolins. No. 73,601; May 4; Gaz. vol. 142; p. 284.  
 Rudolph Wurlitzer Co., Cincinnati, Ohio. Mandolins. No. 73,602; May 4; Gaz. vol. 142; p. 284.  
 Rueckheim Bros. & Eckstein, Chicago, Ill. Candied popcorn. No. 72,937; Mar. 2; Gaz. vol. 140; p. 252.  
 Rueckheim Bros. & Eckstein, Chicago, Ill. Candy. No. 72,938; Mar. 2; Gaz. vol. 140; p. 252.  
 Rueter, W., New York, N. Y. Hand-bags, satchels, and pocket-books. No. 72,257; Jan. 12; Gaz. vol. 138; p. 524.  
 Rueter, W., New York, N. Y. Hand-bags, satchels, and pocket-books. No. 74,616; July 27; Gaz. vol. 144; p. 1086.  
 Runkel Brothers, Incorporated, New York, N. Y. Sweet chocolate. Nos. 73,785-6; May 18; Gaz. vol. 142; p. 852.  
 Ruppert, J., New York, N. Y. Beer. No. 74,454; July 13; Gaz. vol. 144; p. 559.  
 Russe & Burgess, Memphis, Tenn. Lumber and logs. No. 73,829; May 25; Gaz. vol. 142; p. 1109.  
 Russell Manufacturing Company, Middletown, Conn. Suspenders and shoulder-braces. Nos. 73,982-4; June 8; Gaz. vol. 143; p. 557.  
 Russell Mfg. Co., Middletown, Conn. Boxes. No. 75,009; Aug. 24; Gaz. vol. 145; p. 1019.  
 Russia Cement Company, Gloucester, Mass. Glue, mucilage, and adhesive paste. Nos. 72,172-3; Jan. 5; Gaz. vol. 138; p. 253.  
 Rutledge, E. D., Minerva, Ohio. Certain medicines. No. 72,474; Jan. 26; Gaz. vol. 138; p. 961.  
 Ruzicka, J., Chicago, Ill. Corn-plasters. No. 72,609; Feb. 9; Gaz. vol. 139; p. 457.  
 Ryan & Newton Co., Spokane, Wash. Butter. No. 73,115; Mar. 16; Gaz. vol. 140; p. 752.



*Alphabetical list of registrants of trade-marks—Continued.*

- Ryan & Newton Co., Spokane, Wash. Cream-cheese. No. 73,873; May 25; Gaz. vol. 142; p. 1110.  
 Ryan & Newton Co., Spokane, Wash. Cream-cheese. No. 73,959; June 1; Gaz. vol. 143; p. 255.  
 S. Hamill Company, Keokuk, Iowa. Washboards. No. 73,787; May 18; Gaz. vol. 142; p. 852.  
 S. Hamill Company, Keokuk, Iowa. Flavoring extracts. No. 75,136; Sept. 7; Gaz. vol. 146; p. 251.  
 S. & B. Lederer Company, Providence, R. I. Jewelry for personal adornment. No. 72,463; Jan. 26; Gaz. vol. 138; p. 961.  
 S. E. Howard's Son & Co., New York, N. Y. Brushes. No. 73,167; Mar. 23; Gaz. vol. 140; p. 997.  
 S. E. Howard's Son & Co., New York, N. Y. Brushes. No. 73,830; May 25; Gaz. vol. 142; p. 1109.  
 S. E. Howard's Son & Co., New York, N. Y. Powder for cleaning brushes. No. 75,455; Oct. 5; Gaz. vol. 147; p. 232.  
 S. F. Bowser & Co., Fort Wayne, Ind. Self-measuring pumps and tanks. No. 74,485; July 13; Gaz. vol. 144; p. 559.  
 S. F. Hayward & Company, New York, N. Y. Fire-extinguishing apparatus. No. 74,932; Aug. 17; Gaz. vol. 145; p. 761.  
 S. M. Bixby & Co., New York, N. Y. Leather-polishes. No. 73,698; May 11; Gaz. vol. 142; p. 564.  
 S. M. Bixby & Co., New York, N. Y. Leather-polishes. No. 75,752; Nov. 9; Gaz. vol. 148; p. 566.  
 S. M. Jones Co., Toledo, Ohio. Explosive-engines. No. 73,383; Apr. 13; Gaz. vol. 141; p. 563.  
 S. R. Smith Co., Harrisburg, Pa. Macaroni. No. 74,001; June 8; Gaz. vol. 143; p. 558.  
 S. R. Smith Company, Harrisburg, Pa. Macaroni, spaghetti, and noodles. No. 74,152; June 22; Gaz. vol. 143; p. 1104.  
 S. S. McClure Company, New York, N. Y. Printed books and magazines. No. 75,170; Sept. 7; Gaz. vol. 146; p. 252.  
 S. S. Pierce Co., Boston, Mass. Blended coffee. No. 74,053; June 15; Gaz. vol. 143; p. 859.  
 S. S. Pierce Co., Boston, Mass. Gloss lump-starch. No. 74,570; July 20; Gaz. vol. 144; p. 815.  
 S. S. Pierce Co., Boston, Mass. Corn-starch. No. 75,627; Oct. 26; Gaz. vol. 147; p. 1032.  
 S. W. Miller Piano Co., Sheboygan, Wis. Pianos. No. 75,287; Sept. 21; Gaz. vol. 146; p. 715.  
 Saccharin-Fabrik, Aktien-Gesellschaft, vorm. Fahlberg, List & Co., Salbke-Westerhüsen, Germany. Saccharin. No. 75,972; Nov. 30; Gaz. vol. 148; p. 1340.  
 Sackett Plaster Board Company, New York, N. Y. Plaster-boards. No. 74,153; June 22; Gaz. vol. 143; p. 1104.  
 Sacks, I., Lynchburg, Va. Overalls. No. 72,810; Feb. 23; Gaz. vol. 139; p. 986.  
 Sacks, L., Newark, N. J. Boot and shoe heel-plates. No. 75,324; Sept. 21; Gaz. vol. 146; p. 716.  
 Sáenz & Co., New York, N. Y. Wheat-flour. No. 72,967; Mar. 9; Gaz. vol. 140; p. 501.  
 Safety Cylinder Valve Company, Mansfield, Ohio. Valves. No. 75,097; Aug. 31; Gaz. vol. 145; p. 1247.  
 Sain Chemical Company, St. Louis, Mo. Remedy for blood-poisoning and rheumatism. No. 76,261; Dec. 28; Gaz. vol. 149; p. 1117.  
 Sallet, F. W., Yankton, S. D. Newspapers. No. 73,416; Apr. 20; Gaz. vol. 141; p. 861.  
 Salomon, A., New York, N. Y. Paints and enamels. No. 76,033; Dec. 7; Gaz. vol. 149; p. 306.  
 Salt Union Limited, Liverpool, England. Salt. No. 73,526; Apr. 27; Gaz. vol. 141; p. 1158.  
 Saltzman, M. P. E., Washington, D. C. Antiseptic healing-ointment for the skin. No. 72,525; Feb. 2; Gaz. vol. 139; p. 193.  
 Sambucetti, Bianchi & Co., Memphis, Tenn. Whisky. No. 73,725; May 11; Gaz. vol. 142; p. 564.  
 Samuel Fox & Co. Limited, Stocksbridge Works, near Sheffield, England. Steel. No. 74,300; June 29; Gaz. vol. 143; p. 1341.  
 Samuel Haas Trimmed Hat Company, St. Louis, Mo. Trimmed hats. No. 74,639; July 27; Gaz. vol. 144; p. 1086.  
 Samuel J. Shimer & Sons, Milton, Pa. Cutter and matcher heads. No. 72,408; Jan. 26; Gaz. vol. 138; p. 959.  
 Samuel S. Beard & Co., New York, N. Y. Roasted coffee. No. 74,002; June 8; Gaz. vol. 143; p. 558.  
 Samuel Saqui Co., New York, N. Y. Cigars and cigarettes. No. 73,429; Apr. 20; Gaz. vol. 141; p. 861.  
 San Antonio Machine Supply Co., San Antonio, Tex. Horse-powers, pumping-jacks, and windmills, and parts thereof. No. 74,154; June 22; Gaz. vol. 143; p. 1104.  
 Sanative Remedy Co., St. Louis, Mo. Foot-salve. No. 73,300; Apr. 6; Gaz. vol. 141; p. 283.  
 Sandorides & Co., Limited, W., London, England. Cigarettes, smoking-tobacco, and cigars. No. 75,491; Oct. 5; Gaz. vol. 147; p. 233.  
 Sanitary Brush & Compound Co., Milwaukee, Wis. Sweeping compounds. No. 73,729; May 11; Gaz. vol. 142; p. 565.  
 Sanitary Hair Goods Co., Chicago, Ill. Hair-rolls. No. 75,060; Aug. 31; Gaz. vol. 145; p. 1246.  
 Sanoica, W. A., Chicago, Ill. Cordial. No. 73,726; May 11; Gaz. vol. 142; p. 565.  
 Santarsiero, F., Naples, Italy. Italian tomato sauce. No. 75,584; Oct. 19; Gaz. vol. 147; p. 768.  
 Sarason, L., Hirschgarten, near Berlin, Germany. Chemical preparation for producing effervescent baths. No. 72,968; Mar. 9; Gaz. vol. 140; p. 501.  
 Sarg, C. F. A., Vienna, Austria-Hungary. Soaps. No. 73,576; May 4; Gaz. vol. 142; p. 283.  
 Sargeant, S. M., Worcester, Mass. Flavoring extracts. No. 72,590; Feb. 2; Gaz. vol. 139; p. 195.  
 Sarnoff Bros., New York, N. Y. Hats and caps of cloth, wool, felt, fur, and straw. No. 72,811; Feb. 23; Gaz. vol. 139; p. 986.  
 Sattler, J. G., Buffalo, N. Y. Leather shoes. No. 76,034; Dec. 7; Gaz. vol. 149; p. 306.  
 Sauer, C. F., Richmond, Va. Flavoring extracts of lemon, vanilla, and peppermint. No. 76,157; Dec. 21; Gaz. vol. 149; p. 829.  
 Savoy Shirt Co., New York, N. Y. Shirts. No. 74,511; July 20; Gaz. vol. 144; p. 813.  
 Sawkins, E. D., Baltimore, Md. Hair-tonic, hair-coloring material, and milk-weed lotion. No. 73,831; May 25; Gaz. vol. 142; p. 1109.  
 Saxlehner, A., Budapest, Austria-Hungary. Bitter salts obtained from natural mineral water. No. 72,969; Mar. 9; Gaz. vol. 140; p. 501.  
 Saxlehner, A., Budapest, Austria-Hungary. Natural aperient salt. No. 72,970; Mar. 9; Gaz. vol. 140; p. 501.  
 Saxlehner, A., Budapest, Austria-Hungary. Bitter salts obtained from natural mineral water. No. 72,971; Mar. 9; Gaz. vol. 140; p. 501.  
 Saxlehner, A., Budapest, Austria-Hungary. Natural mineral water. Nos. 73,036-7; Mar. 9; Gaz. vol. 140; p. 503.  
 Sayman, T. M., St. Louis, Mo. Toilet soap. No. 72,972; Mar. 9; Gaz. vol. 140; p. 501.  
 Scales-Wilson Co., Greenville, S. C. Non-alcoholic beverage. No. 73,808; May 18; Gaz. vol. 142; p. 852.  
 Schaaf, J. G., Chambersburg, Pa. Certain electrical supplies. No. 72,728; Feb. 16; Gaz. vol. 139; p. 725.  
 Scheer, Grandi & Co., San Francisco, Cal. Butter. No. 75,946; Nov. 30; Gaz. vol. 148; p. 1339.  
 Schenk, A., Vienna, Austria-Hungary. Artificial-stone plates. No. 74,571; July 20; Gaz. vol. 144; p. 815.  
 Schiele Bros., New York, N. Y. Ladies' underwear. No. 74,076; June 15; Gaz. vol. 143; p. 860.  
 Schiff & Bloom, Baltimore, Md. Ladies' undershirts. No. 73,927; June 1; Gaz. vol. 143; p. 254.  
 Schimmel & Co., Miltitz-Leipzig, Germany. Violet perfumes. Nos. 72,973-5; Mar. 9; Gaz. vol. 140; p. 501.  
 Schimmel & Co., Miltitz-Leipzig, Germany. Violet perfumes. No. 73,343; Apr. 13; Gaz. vol. 141; p. 562.  
 Schimmel & Co., Miltitz-Leipzig, Germany. Synthetic oil of violet. No. 73,628; May 4; Gaz. vol. 142; p. 284.  
 Schirmer, G., New York, N. Y. Musical publications. No. 76,022; Dec. 7; Gaz. vol. 149; p. 306.  
 Schlechter, G. A., Reading, Pa. Watch-fobs and badges. No. 75,259; Sept. 14; Gaz. vol. 146; p. 503.  
 Schloss & Company, J. W., New York, N. Y. Button-molds. No. 73,770; May 18; Gaz. vol. 142; p. 851.  
 Schloss & Company, J. W., New York, N. Y. Buttons. No. 75,998; Dec. 7; Gaz. vol. 149; p. 305.  
 Schloss, M. W., New York, N. Y. Hose-supporters. No. 73,628; May 4; Gaz. vol. 142; p. 284.  
 Schmid, J., Astoria, N. Y. Gut strings. No. 74,974; Aug. 24; Gaz. vol. 145; p. 1018.  
 Schmidt, A., Norfolk, Nehr. Remedy for stomach troubles, indigestion, and biliousness. No. 76,059; Dec. 7; Gaz. vol. 149; p. 307.  
 Schmidt, W., Hoboken, N. J. Cough-balm. No. 75,098; Aug. 31; Gaz. vol. 145; p. 1247.  
 Schmieder, J. C., Moresmere, N. J., and New York, N. Y. Reels for ruchings and other trimmings. No. 74,239; June 29; Gaz. vol. 143; p. 1339.  
 Schnitt, F. G., Henderson, Ky. Cigars. No. 72,204; Jan. 5; Gaz. vol. 138; p. 254.  
 Schnitt & Förderer, Cassel-Wilhelmshöhe, Germany. Sticky fly-paper. No. 75,171; Sept. 7; Gaz. vol. 146; p. 252.  
 Schnitz, A., Heerd, Germany. Certain oil. No. 73,399; Apr. 13; Gaz. vol. 141; p. 563.  
 Schmulback, Brewing Company, Wheeling, W. Va. Lager-beer. No. 75,909; Nov. 23; Gaz. vol. 148; p. 1083.  
 Schneider, F. G., Fort Wayne, Ind. Cigars. No. 72,205; Jan. 5; Gaz. vol. 138; p. 254.  
 Schneider, H., assignor to Firm of Schülke & Mayr, Hamburg, Germany. Disinfectants. No. 73,301; Apr. 6; Gaz. vol. 141; p. 283.  
 Schneider, P. J., Detroit, Mich. Hair-tonic. No. 75,628; Oct. 26; Gaz. vol. 147; p. 1032.  
 Schoedinger, F. O., Columbus, Ohio. Lock-joint metal ceilings. No. 74,240; June 29; Gaz. vol. 143; p. 1339.  
 Schoellkopf, Hartford & Hanna Company, Buffalo, N. Y. Product for rendering cement waterproof. No. 72,759; Feb. 16; Gaz. vol. 139; p. 726.  
 Schoellkopf, Hartford & Hanna Company, Buffalo, N. Y. Compound for removing and preventing the formation of scale in boilers. No. 72,976; Mar. 9; Gaz. vol. 140; p. 501.  
 Schoenheit Medicine Co., A., San Jose, Cal. Remedy for certain diseases. No. 75,656; Nov. 2; Gaz. vol. 148; p. 275.  
 Schoenacker Piano Forte Manufacturing Co., Philadelphia, Pa. Pianos and pianofortes. No. 72,174; Jan. 5; Gaz. vol. 138; p. 253.  
 Schorsch & Co., New York, N. Y. Paper bags. No. 76,216; Dec. 28; Gaz. vol. 149; p. 1115.  
 Schotten, J. J., St. Louis, Mo. Blended roasted coffee. No. 73,527; Apr. 27; Gaz. vol. 141; p. 1158.  
 Schottlander, T., Chicago, Ill. Corsets. No. 74,155; June 22; Gaz. vol. 143; p. 1104.  
 Schram Automatic Sealer Company, St. Louis, Mo., and Hillsboro, Ill. Glass cans and jars. No. 75,418; Sept. 28; Gaz. vol. 146; p. 955.  
 Schülke & Mayr, Firm of. (See Schneider, H., assignor.)  
 Schulman & Co., L., New York, N. Y. Chocolates. No. 73,730; May 11; Gaz. vol. 142; p. 565.  
 Schulman & Co., L., New York, N. Y. Chocolate candy. No. 74,003; June 8; Gaz. vol. 143; p. 558.  
 Schulten & Company, J. J., Louisville, Ky. Shoes made wholly or in part of leather. No. 74,933; Aug. 17; Gaz. vol. 145; p. 761.  
 Schuman, W., Buffalo, N. Y. Blended whisky. No. 74,512; July 20; Gaz. vol. 144; p. 813.



*Alphabetical list of registrants of trade-marks—Continued.*

- Schwartz, M., New York, N. Y. Corsets. No. 74,699; Aug. 3; Gaz. vol. 145; p. 251.  
 Schwarz & Co., E. M., New York, N. Y. Cigars. No. 72,206; Jan. 5; Gaz. vol. 138; p. 254.  
 Schwarz, S., Newark, N. J. Insecticide and vermin-destroyer. No. 73,302; Apr. 6; Gaz. vol. 141; p. 283.  
 Schwarzwelder Company, Philadelphia, Pa. Cloths and worsteds for garments. No. 72,292; Jan. 12; Gaz. vol. 138; p. 525.  
 Schweich, J. H., St. Louis, Mo. Autographic manifold devices. No. 74,077; June 15; Gaz. vol. 143; p. 860.  
 Schweid, B., New York, N. Y. Salve. No. 72,848; Mar. 2; Gaz. vol. 140; p. 249.  
 Schweinfurter Präzisions-Kugel-Lager-Werke Fichtel & Sachs, Schweinfurt, Germany. Bearings and parts thereof. No. 74,185; June 22; Gaz. vol. 143; p. 1105.  
 Scio Condensed Milk Co., Scio, Oreg. Condensed milk. No. 75,412; Sept. 28; Gaz. vol. 146; p. 955.  
 Scott-Brown Manufacturing Co., Oakland, Cal. Scalp remedy. No. 74,872; Aug. 17; Gaz. vol. 145; p. 759.  
 Scott, R. M., Oklahoma, Okla. Salves. No. 75,325; Sept. 21; Gaz. vol. 146; p. 716.  
 Scudders-Gale Grocer Co., St. Louis, Mo. French olive-oil. No. 75,910; Nov. 23; Gaz. vol. 148; p. 1083.  
 Sea Gull Specialty Company, Baltimore, Md. Baking-powder. No. 76,094; Dec. 14; Gaz. vol. 149; p. 596.  
 Sealy Mattress Co., Dallas, Tex. Mattresses. No. 74,156; June 22; Gaz. vol. 143; p. 1104.  
 Sealy Mattress Company, Dallas, Tex. Mattresses. No. 76,217; Dec. 28; Gaz. vol. 149; p. 1115.  
 Sears & Nichols Company, Chillicothe and Frankfort, Ohio. Canned fruits, vegetables, and pork and beans. No. 75,456; Oct. 5; Gaz. vol. 147; p. 232.  
 Sears & Nichols Company, Chillicothe and Frankfort, Ohio. Canned fruits, berries, vegetables, &c. No. 75,758; Nov. 9; Gaz. vol. 148; p. 566.  
 Sears & Nichols Company, Chillicothe and Frankfort, Ohio. Canned vegetables. No. 75,947; Nov. 30; Gaz. vol. 148; p. 1339.  
 Sears & Nichols Company, Chillicothe and Frankfort, Ohio. Canned fruits, berries, vegetables, and pork and beans. No. 75,999; Dec. 7; Gaz. vol. 149; p. 305.  
 Sears & Nichols Company, Chillicothe and Frankfort, Ohio. Canned foods. No. 76,000; Dec. 7; Gaz. vol. 149; p. 305.  
 Sears, Roebuck and Co., Chicago, Ill. Binder-twine. No. 74,241; June 29; Gaz. vol. 143; p. 1339.  
 Seattle Polish Manufacturing Co., Seattle, Wash. Metal-polish. Nos. 72,910-11; Mar. 2; Gaz. vol. 140; p. 251.  
 Seay, G. W., Atlanta, Ga. Suspenders, neckties, garters, and belts. No. 75,896; Nov. 23; Gaz. vol. 148; p. 1082.  
 Seeborn & Dieckstahl, Ltd., Sheffield, England. Steel. No. 75,829; Nov. 16; Gaz. vol. 148; p. 829.  
 Selerv-Soda Company, New York, N. Y. Headache remedy. No. 75,973; Nov. 30; Gaz. vol. 148; p. 1340.  
 Self, C. E., Richmond, Ohio. Harness-dressings. No. 73,303; Apr. 6; Gaz. vol. 141; p. 283.  
 Self-Closing Pouch Company, St. Louis, Mo. Tobacco-pouches. No. 73,809; May 18; Gaz. vol. 142; p. 853.  
 Selz, A., Chicago, Ill. Shoe-polish. No. 75,649; Oct. 26; Gaz. vol. 147; p. 1032.  
 Selz, Schwab & Company, Chicago, Ill. Leather boots and shoes. No. 72,729; Feb. 16; Gaz. vol. 139; p. 726.  
 Selzer, J., Carroll, Iowa. Ice-cream, ices, and sherbets. No. 72,912; Mar. 2; Gaz. vol. 140; p. 251.  
 Semmes & Co., B. J., Memphis, Tenn. Straight rye whiskey and blended rye whiskey. No. 72,175; Jan. 5; Gaz. vol. 138; p. 253.  
 Sénégas, J., New York, N. Y. Hair dressing and tonic. No. 75,672; Nov. 2; Gaz. vol. 148; p. 275.  
 Serrell, L. W., New York, N. Y. Vacuum cleaning apparatus. No. 75,236; Sept. 14; Gaz. vol. 146; p. 502.  
 Serrell, L. W., New York, N. Y. Vacuum cleaning apparatus. No. 75,817; Nov. 16; Gaz. vol. 148; p. 828.  
 Servida, A., New York, N. Y. Italian olive-oil. No. 75,709; Nov. 2; Gaz. vol. 148; p. 276.  
 Sewing Thread Co., Pawtucket, R. I., and New York, N. Y. Spool-cotton. No. 74,700; Aug. 3; Gaz. vol. 145; p. 251.  
 Shanks Co., J. C., Denver, Colo. Steel ranges, cooking and heating stoves. No. 75,027; Aug. 24; Gaz. vol. 145; p. 1019.  
 Shanks Co., J. C., Denver, Colo. Steel ranges, cooking and heating stoves. No. 75,880; Nov. 23; Gaz. vol. 148; p. 1082.  
 Shapiro, H., New York, N. Y. Washboilers. No. 75,792; Nov. 16; Gaz. vol. 148; p. 828.  
 Shapiro and Levy Cap Company, Indianapolis, Ind. Hats and caps. No. 75,382; Sept. 28; Gaz. vol. 146; p. 954.  
 Sharp & Dohme, Baltimore, Md. Antiseptic powder. No. 75,881; Nov. 23; Gaz. vol. 148; p. 1082.  
 Sharp & Dohme, Baltimore, Md. Remedy for coughs and colds. No. 75,974; Nov. 30; Gaz. vol. 148; p. 1340.  
 Sharp & Dohme, Baltimore, Md. Laxative. No. 76,054; Dec. 7; Gaz. vol. 148; p. 307.  
 Sharp & Dohme, Baltimore, Md. Remedy for indigestion. No. 76,129; Dec. 14; Gaz. vol. 149; p. 599.  
 Shaw Piano Co., Baltimore, Md. Pianos and piano-players. No. 75,614; Oct. 26; Gaz. vol. 147; p. 1031.  
 Shaw-Walker Company, Muskegon, Mich. Sectional filing and card-index cabinets. No. 75,099; Aug. 31; Gaz. vol. 145; p. 1247.  
 Shawmut Tire Co., Boston, Mass. Rubber vehicle-tires. No. 76,081; Dec. 14; Gaz. vol. 149; p. 597.  
 Shawnee Milling Co., Shawnee, Okla. Alfalfa and grain dairy and stock food. No. 75,915; Nov. 23; Gaz. vol. 148; p. 1083.  
 Sheldon Axle Company, Wilkes-Barre, Pa. Vehicle-axles. No. 75,191; Sept. 14; Gaz. vol. 146; p. 501.  
 Sheppard, W. S., Newark, N. J. Oils and greases adapted for gear lubrication. No. 75,061; Aug. 31; Gaz. vol. 145; p. 1246.  
 Sherfick, F. M., Somerset, Colo. Remedy for blight in fruit-trees. No. 74,648; July 27; Gaz. vol. 144; p. 1086.  
 Sherman Bros. & Co., Chicago, Ill. Roasted coffee and chicory. No. 75,062; Aug. 31; Gaz. vol. 145; p. 1246.  
 Sherman Bros. & Co., Chicago, Ill. Roasted coffee. No. 75,137; Sept. 7; Gaz. vol. 146; p. 251.  
 Sherry Shoe Co., Lynn, Mass. Leather shoes. No. 76,158; Dec. 21; Gaz. vol. 149; p. 829.  
 Sherwin-Williams Co., Cleveland, Ohio. Cleaning compound. No. 73,071; Mar. 16; Gaz. vol. 140; p. 751.  
 Shields-Morley Gro. Co., Colorado Springs, Colo. Canned tomatoes. No. 72,093; Jan. 5; Gaz. vol. 138; p. 251.  
 Shields-Morley Gro. Co., Colorado Springs, Colo. Canned fruits and vegetables. No. 74,597; July 27; Gaz. vol. 144; p. 1085.  
 Shipley, J. F., Boggy Depot, Okla. Soap. No. 76,130; Dec. 14; Gaz. vol. 149; p. 599.  
 Shipman, B. M., New York, N. Y. Dried, salt, smoked, and pickled fish. No. 75,515; Oct. 12; Gaz. vol. 147; p. 513.  
 Shoemaker & Busch, Philadelphia, Pa. Complexion and toilet powders. No. 73,727; May 11; Gaz. vol. 142; p. 565.  
 Shoemaker & Busch, Philadelphia, Pa. Disinfectants and deodorizers. No. 73,728; May 11; Gaz. vol. 142; p. 565.  
 Shoemaker & Busch, Philadelphia, Pa. Face-powder. No. 74,157; June 22; Gaz. vol. 143; p. 1104.  
 Shook, W. F., Dallas, Tex. Medicinal remedies for certain diseases. No. 73,304; Apr. 6; Gaz. vol. 141; p. 283.  
 Sieber & Trussell Manufacturing Co., St. Louis, Mo. Loose-leaf binders. No. 74,209; June 22; Gaz. vol. 143; p. 1105.  
 Siegert & Hijos, Dr. J. G. B., Port of Spain, Trinidad. Cordials. No. 75,717; Nov. 9; Gaz. vol. 148; p. 565.  
 Sigmund Ullman Co., New York, N. Y. Printing-ink. No. 74,513; July 20; Gaz. vol. 144; p. 813.  
 Silicate Paint Company J. B. Orr and Company, Limited, London, England. Water-paint. No. 75,490; Oct. 5; Gaz. vol. 147; p. 233.  
 Simmons Boot and Shoe Co., Toledo, Ohio. Men's leather boots and shoes. No. 73,305; Apr. 6; Gaz. vol. 141; p. 283.  
 Simmons Hardware Company, St. Louis, Mo. Safety-razors. No. 74,158; June 22; Gaz. vol. 143; p. 1104.  
 Simon, S. C., Philadelphia, Pa. Fiber chair-seats. No. 74,640; July 27; Gaz. vol. 144; p. 1086.  
 Simons & Struve Hosiery Co., Philadelphia, Pa. Hosiery. No. 75,516; Oct. 12; Gaz. vol. 147; p. 513.  
 Simpkins, W. A., Raleigh, N. C. Cotton-seeds. No. 74,054; June 15; Gaz. vol. 143; p. 859.  
 Simplex Electrical Company, Boston, Mass. Insulated electrical conductors. No. 74,391; July 6; Gaz. vol. 144; p. 273.  
 Simplex Manufacturing Company, Thompsonville, Conn., and New York, N. Y. Safety-valves. No. 74,631; July 27; Gaz. vol. 144; p. 1086.  
 Simplex Manufacturing Company, Thompsonville, Conn., and New York, N. Y. Safety-valves. No. 74,666; July 27; Gaz. vol. 144; p. 1087.  
 Simplex Manufacturing Company, Thompsonville, Conn., and New York, N. Y. Certain tools and machines. No. 74,744; Aug. 3; Gaz. vol. 145; p. 253.  
 Simplex Manufacturing Company, Thompsonville, Conn., and New York, N. Y. Certain machinery and tools. No. 75,419; Sept. 28; Gaz. vol. 146; p. 955.  
 Simplex Railway Appliance Company, Chicago, Ill., and Hammond, Ind. Car brake-beams. Nos. 73,731-2; May 11; Gaz. vol. 142; p. 565.  
 Simplex Railway Appliance Company, Chicago, Ill., and Hammond, Ind. Car brake-beams. No. 73,734; May 11; Gaz. vol. 142; p. 565.  
 Simpson Crawford Co., New York, N. Y. Kid gloves and leather shoes. No. 76,001; Dec. 7; Gaz. vol. 149; p. 305.  
 Simpson & Harvey, Liverpool, England. Stylographic and fountain pens. No. 73,565; Apr. 27; Gaz. vol. 141; p. 1159.  
 Simpson, O., Cincinnati, Ohio. Grinding-mills. No. 75,650; Oct. 26; Gaz. vol. 147; p. 1032.  
 Sims, P. A., Cleveland, Ohio. Folded paper boxes. No. 73,223; Mar. 30; Gaz. vol. 140; p. 1204.  
 Singer Manufacturing Company, Elizabeth, N. J. Sewing-machines, their parts and attachments. Nos. 74,186-7; June 22; Gaz. vol. 143; p. 1105.  
 Singer Manufacturing Company, Elizabeth, N. J. Cotton, linen, and silk threads. No. 74,873; Aug. 17; Gaz. vol. 145; p. 759.  
 Singer Manufacturing Company, Elizabeth, N. J. Lubricating-oils. No. 74,992; Aug. 24; Gaz. vol. 145; p. 1018.  
 Singley, C. G., Manheim, Pa. Cigars. No. 73,400; Apr. 13; Gaz. vol. 141; p. 563.  
 Sissons, W. & G., Sheffield and London, England. Silver or plated table, flat, and hollow ware. No. 74,159; June 22; Gaz. vol. 143; p. 1104.  
 Sivins, L., New York, N. Y. Certain clothing. No. 72,293; Jan. 12; Gaz. vol. 138; p. 525.  
 Skidd, C., Kenosha, Wis. Milk coolers and aerators. No. 76,095; Dec. 14; Gaz. vol. 149; p. 598.  
 Slater Manufacturing Company, Pawtucket, R. I. Toweling. Nos. 75,718-19; Nov. 9; Gaz. vol. 148; p. 565.  
 Slater & Morrill, South Braintree, Mass. Certain shoes. No. 72,294; Jan. 12; Gaz. vol. 138; p. 525.  
 Slaughter, G. W., Detroit, Mich., and Montreal, Quebec, Canada. Medicine in tablet form. No. 75,260; Sept. 14; Gaz. vol. 146; p. 503.  
 Slazenger, F. L., New York, N. Y. Golf-balls. No. 74,667; July 27; Gaz. vol. 144; p. 1087.  
 Slutz & Company, C., Bethlehem township, Stark county, Ohio. Liniment for external use on live stock. No. 75,882; Nov. 23; Gaz. vol. 148; p. 1082.



*Alphabetical list of registrants of trade-marks—Continued.*

- Smith, A., New York, N. Y. Antiseptic powder. No. 75,629; Oct. 26; Gaz. vol. 147; p. 1032.
- Smith, A. D., Orange, N. J. Diaper-cloth. No. 75,911; Nov. 23; Gaz. vol. 148; p. 1083.
- Smith, A. D., Orange, N. J. Diaper-cloth. No. 76,060; Dec. 7; Gaz. vol. 149; p. 307.
- Smith Co., J. O., Moberly, Mo. Tape-lines and tape-line reels. No. 75,063; Aug. 31; Gaz. vol. 145; p. 1246.
- Smith, E. J., Jacksonville, Fla. Cough-drops. No. 72,207; Jan. 5; Gaz. vol. 138; p. 254.
- Smith, G. F., Woodsboro, Md. Certain pharmaceutical preparations. No. 72,258; Jan. 12; Gaz. vol. 138; p. 524.
- Smith, J. G., St. Paul, Minn. Candies. No. 72,591; Feb. 2; Gaz. vol. 139; p. 195.
- Smith, J. T., Newark, N. J. Patent and enameled leather. No. 76,096; Dec. 14; Gaz. vol. 149; p. 598.
- Smith, R. A., Pana, Ill. Remedy for diseases of the liver and kidneys. No. 72,526; Feb. 2; Gaz. vol. 139; p. 193.
- Smith, S. H., Indianapolis, Ind. Trade publication. No. 74,242; June 29; Gaz. vol. 143; p. 1339.
- Smith & Stoddard Company, Chicago, Ill. Whips. No. 75,457; Oct. 5; Gaz. vol. 147; p. 232.
- Smith-Yingling Company, Westminster, Md. Canned corn. No. 74,782; Aug. 10; Gaz. vol. 145; p. 508.
- Smith-Yingling Company, Westminster, Md. Canned corn, peas, and tomatoes. No. 75,100; Aug. 31; Gaz. vol. 145; p. 1247.
- Smith-Yingling Company, Westminster, Md. Canned peas, corn, and tomatoes. No. 75,138; Sept. 7; Gaz. vol. 146; p. 251.
- Smokers Paradise Corp., Atlantic City, N. J. Cigars and cigarettes. No. 72,409; Jan. 26; Gaz. vol. 138; p. 959.
- Smokers Paradise Corp., Atlantic City, N. J. Cigars. No. 72,410; Jan. 26; Gaz. vol. 138; p. 959.
- Smyrna Fruit Company, New York, N. Y. Figs and dates. No. 73,387; Apr. 13; Gaz. vol. 141; p. 563.
- Snell & Atherton Incorporated, Brockton, Mass. Certain knives and tools. No. 76,039; Dec. 7; Gaz. vol. 149; p. 306.
- Snow, Mecaslin & Co., Baltimore, Md. Certain clothing. No. 73,603; May 4; Gaz. vol. 142; p. 284.
- Snyder-Chaffee Company, Columbus, Ohio. Chocolates. No. 75,710; Nov. 2; Gaz. vol. 148; p. 276.
- Snyder, G. D., Brooklyn, N. Y. Talcum powder. No. 73,481; Apr. 20; Gaz. vol. 141; p. 863.
- Sober, C. K., Lewisburg, Pa. Chestnuts. No. 72,499; Jan. 26; Gaz. vol. 138; p. 962.
- Sobrinho, M., Habana, Cuba. Chewing-tobacco. No. 74,486; July 13; Gaz. vol. 144; p. 559.
- Société Anonyme des Plaques et Papiers Photographiques A Lumière et ses Fils, Lyon, France. Sensitive plates and films for color photography. No. 75,948; Nov. 30; Gaz. vol. 148; p. 1340.
- Société Atuyer, Bianchini, Frier & Co., Lyon, France. Silk, linen, and cotton piece goods. No. 75,139; Sept. 7; Gaz. vol. 146; p. 252.
- Société l'Oxylythe, Paris, France. Chemical substances for preparing oxygen. No. 74,160; June 22; Gaz. vol. 143; p. 1104.
- Solares & Company, Chicago, Ill. Cigars. No. 74,392; July 6; Gaz. vol. 144; p. 273.
- Solomon Bros. & Lempert, Rochester, N. Y. Overcoats, coats, vests, and trousers. No. 74,894; Aug. 17; Gaz. vol. 145; p. 760.
- Solomon-Wickersham Company, Safford, Ariz. Ter. Certain foods. No. 73,283; Apr. 6; Gaz. vol. 141; p. 282.
- Soltau & Co., R., New York, N. Y. Gutta-percha tissues. No. 75,338; Sept. 21; Gaz. vol. 146; p. 717.
- Sommer & Gottschalk, Jersey City, N. J. Stove-blackening. No. 73,384; Apr. 13; Gaz. vol. 141; p. 563.
- Sondheim, L. H., New York, N. Y. Game. No. 74,210; June 22; Gaz. vol. 143; p. 1105.
- Sondheim, L. H., New York, N. Y. Card game. No. 74,211; June 22; Gaz. vol. 143; p. 1106.
- Sorrells Drug Company, Hot Springs, Ark. Remedy for gonorrhea. No. 75,101; Aug. 31; Gaz. vol. 145; p. 1247.
- Souder & Company, Kokomo, Ind. Remedies for diseases of the feet of animals. No. 72,977; Mar. 9; Gaz. vol. 140; p. 501.
- Souter, F. T. E., London, England. Preventive for certain diseases. No. 74,572; July 20; Gaz. vol. 144; p. 815.
- Southern Can Company of Baltimore City, Baltimore, Md. Metal cans intended to be used for canning fruits and vegetables. No. 73,630; May 4; Gaz. vol. 142; p. 284.
- Southern Cotton Oil Company, Jersey City, N. J.; New York, N. Y.; Savannah, Ga., and Gretna, La. Cotton-seed oils intended for use as food. No. 72,913; Mar. 2; Gaz. vol. 140; p. 251.
- Southern Spring Bed Co., Atlanta, Ga. Mattresses. No. 74,025; June 8; Gaz. vol. 143; p. 558.
- Southern Spring Bed Co., Atlanta, Ga. Mattresses. No. 74,393; July 6; Gaz. vol. 144; p. 273.
- Spanish-American Food Co., San Francisco, Cal. Certain food preparations. No. 72,259; Jan. 12; Gaz. vol. 138; p. 524.
- Spanish-American Food Co., San Francisco, Cal. Canned prepared food composed of beef, corn, and Spanish spices. No. 72,691; Feb. 9; Gaz. vol. 139; p. 459.
- Spery Flour Company, San Francisco, Cal. Rolled oats. No. 74,161; June 22; Gaz. vol. 143; p. 1104.
- Speurl, A. J., Long Island City, N. Y. Liquid mixture used for polishing furniture and pianos. No. 73,306; Apr. 6; Gaz. vol. 141; p. 283.
- Spillers & Bakers, Limited, Cardiff, England. Food for dogs. No. 73,242; Apr. 6; Gaz. vol. 141; p. 281.
- Spiritine Chemical Co., Wilmington, N. C. Paint. No. 74,103; June 15; Gaz. vol. 143; p. 861.
- Sporting Life Publishing Company, Philadelphia, Pa. Newspaper. No. 73,735; May 11; Gaz. vol. 142; p. 565.
- Sprague Publishing Company, Detroit, Mich. Monthly magazine. No. 75,407; Sept. 28; Gaz. vol. 146; p. 954.
- Spring Valley Canning Company, Spring Valley and Lebanon, Ohio. Canned vegetables. No. 76,082; Dec. 14; Gaz. vol. 149; p. 597.
- Squirrel Brand Company, Cambridge, Mass. Certain foods. No. 76,187; Dec. 21; Gaz. vol. 149; p. 830.
- St. Clair Manufacturing Company, Dayton, Ohio. Acetylene-gas generators. No. 73,143; Mar. 16; Gaz. vol. 140; p. 753.
- St. Louis Dairy Company, St. Louis, Mo. Fermented milk. No. 74,164; June 22; Gaz. vol. 143; p. 1104.
- Stackpole Battery Co., St. Marys, Pa. Dry-cell batteries. Nos. 73,201-2; Mar. 30; Gaz. vol. 140; p. 1203.
- Standard Button Company, Attleboro, Mass. Bracelets. No. 75,585; Oct. 19; Gaz. vol. 147; p. 768.
- Standard Chemical Co., Raleigh, N. C. Remedy for syphilis. No. 72,527; Feb. 2; Gaz. vol. 139; p. 193.
- Standard Guano and Chemical Manufacturing Company, New Orleans, La. Fertilizers. Nos. 74,745-6; Aug. 3; Gaz. vol. 145; p. 253.
- Standard Knitting Company, Cleveland, Ohio. Knitted jackets, coats, vests, toques, &c. No. 75,673; Nov. 2; Gaz. vol. 148; p. 275.
- Standard Knitting Company, Cleveland, Ohio. Certain clothing. No. 76,083; Dec. 14; Gaz. vol. 149; p. 597.
- Standard Knitting Mills Company, New York, N. Y. Hosiery and knitted vests, undershirts, &c. No. 76,002; Dec. 7; Gaz. vol. 149; p. 305; •
- Standard Manufacturing Co., Bridgeport, Conn. Telephones. No. 72,260; Jan. 12; Gaz. vol. 138; p. 524.
- Standard Music Roll Company, Orange, N. J. Perforated music-rolls. No. 73,344; Apr. 13; Gaz. vol. 141; p. 562.
- Standard Oil Co. of New York, New York, N. Y. Naphtha or petroleum spirit. Nos. 72,109-10; Jan. 5; Gaz. vol. 138; p. 251.
- Standard Oil Co. of New York, New York, N. Y. Substitute for turpentine. No. 72,730; Feb. 16; Gaz. vol. 139; p. 726.
- Standard Oil Co. of New York, New York, N. Y. Substitute for turpentine. No. 73,651; May 4; Gaz. vol. 142; p. 285.
- Standard Oil Co. of New York, New York, N. Y. Refined petroleum. No. 76,188; Dec. 21; Gaz. vol. 149; p. 830.
- Standard Oil Company, San Francisco and Oakland, Cal. Lubricating-oils. No. 73,457; Apr. 20; Gaz. vol. 141; p. 862.
- Standard Paint Co., Boundbrook, N. J., and New York, N. Y. Construction materials. No. 74,353; July 6; Gaz. vol. 144; p. 272.
- Standard Paint Company, Boundbrook, N. J. Flexible sheet-roofing. No. 74,055; June 15; Gaz. vol. 143; p. 859.
- Standard Playing Card Co., Chicago, Ill. Playing-cards. Nos. 73,263-4; Apr. 6; Gaz. vol. 141; p. 282.
- Standard Roller Bearing Company, Philadelphia, Pa. Roller-bearings, ball-bearings, and parts thereof. No. 73,182; Mar. 23; Gaz. vol. 140; p. 998.
- Standard Rubber Mfg. and Supply Co., Trenton, N. J. Printer's blanket. No. 74,487; July 13; Gaz. vol. 144; p. 559.
- Standard Soap Company, West Berkeley, Cal. Soap powder. No. 72,401; Jan. 26; Gaz. vol. 138; p. 959.
- Standard Soap Company, West Berkeley, Cal. Laundry soap. No. 75,546; Oct. 12; Gaz. vol. 147; p. 514.
- Standard Varnish Works, New York, N. Y. Certain painters' materials. No. 74,212; June 22; Gaz. vol. 143; p. 1106.
- Standard Varnish Works, New York, N. Y. Insulating varnishes and compounds. No. 74,763; Aug. 10; Gaz. vol. 145; p. 508.
- Standard Varnish Works, New York, N. Y. Finishes, varnishes, fillers, driers, &c. No. 75,192; Sept. 14; Gaz. vol. 146; p. 501.
- Standish Rubber Company, Boston, Mass. Rubber shoes. No. 75,147; Sept. 7; Gaz. vol. 146; p. 252.
- Stanford, A., Carmine, Tex. Liniment. No. 74,668; July 27; Gaz. vol. 144; p. 1087.
- Stanley & Co., J. Z., Harriette, Mich. Remedy for certain named diseases. No. 72,208; Jan. 5; Gaz. vol. 138; p. 254.
- Stanley Rule & Level Company, New Britain, Conn. Certain hand-tools. No. 73,401; Apr. 13; Gaz. vol. 141; p. 563.
- Stanley Works, New Britain, Conn. Certain fasteners, latches, and bolts. No. 72,261; Jan. 12; Gaz. vol. 138; p. 524.
- Stanley Works, New Britain, Conn. Certain hardware. No. 72,262; Jan. 12; Gaz. vol. 138; p. 524.
- Staples-Hildebrand Supply Co., South Bend, Ind. Blended wheat-flour. No. 74,701; Aug. 3; Gaz. vol. 145; p. 251.
- Star Engravers Supply Company, New York, N. Y. Engravers' plates. No. 73,243; Apr. 6; Gaz. vol. 141; p. 281.
- Stark Rolling Mill Company, Canton, Ohio. Sheet metal. No. 74,162; June 22; Gaz. vol. 143; p. 1104.
- Sté. Anne, des Blancs Minéraux, Amsterdam, Netherlands. Chalk. No. 76,159; Dec. 21; Gaz. vol. 149; p. 829.
- Steel Protected Concrete Co., Philadelphia, Pa. Metal cornerbars for concrete curbs. No. 75,753; Nov. 9; Gaz. vol. 148; p. 566.
- Steele & Caruthers, New York, N. Y. Hosiery. No. 73,090; Mar. 16; Gaz. vol. 140; p. 752.
- Steeleville Milling Company, Steeleville, Ill. Wheat-flour. No. 72,500; Jan. 26; Gaz. vol. 138; p. 962.
- Steiger & Kerr Stove & Foundry Co., San Francisco, Cal. Cooking stoves and ranges. No. 72,675; Feb. 2; Gaz. vol. 139; p. 194.
- Stein & Company, A., Chicago, Ill. Garters. No. 74,784; Aug. 10; Gaz. vol. 145; p. 508.
- Stein-Hirsch & Co., New York, N. Y. Potato-flour and potato-starch. No. 74,957; Aug. 24; Gaz. vol. 145; p. 1017.
- Stein, M., Chicago, Ill. Books of fiction. No. 72,133; Jan. 5; Gaz. vol. 138; p. 252.
- Steinback, W. E., New York, N. Y. Medical preparation. No. 74,163; June 22; Gaz. vol. 143; p. 1104.
- Steinberger & Kalisher, San Francisco, Cal. Leather gloves. No. 74,354; July 6; Gaz. vol. 144; p. 272.
- Steinkern-Industrie G. m. b. H., Berlin, Germany. Composition buttons. No. 74,078; June 15; Gaz. vol. 143; p. 860.
- Stelle, C. A., Chicago, Ill. Percolators and filters. No. 75,734; Nov. 9; Gaz. vol. 148; p. 565.



*Alphabetical list of registrants of trade-marks—Continued.*

- Stephen Greene Co., Philadelphia, Pa. Letter and document filing cases. No. 72,829; Feb. 23; Gaz. vol. 139; p. 986.  
 Sterling Biscuit Company, Boston, Mass. Dog-biscuits. No. 72,501; Jan. 26; Gaz. vol. 138; p. 962.  
 Sterling Borax Company, Los Angeles, Cal. and Chicago, Ill. Borax. No. 74,975; Aug. 24; Gaz. vol. 145; p. 1018.  
 Sterling Chemical Works, Jackson, Tenn. Baking-powder. No. 74,874; Aug. 17; Gaz. vol. 145; p. 759.  
 Sterling Co., Derby, Conn. Pianos and player-pianos. No. 72,576; Feb. 2; Gaz. vol. 139; p. 194.  
 Stern Bros. & Co., New York, N. Y. Certain jewelry and precious-metal ware. No. 73,530; Apr. 27; Gaz. vol. 141; p. 1158.  
 Stern, H., Cleveland, Ohio. Cleaning and polishing compounds. No. 73,736; May 11; Gaz. vol. 142; p. 565.  
 Stern & Saalberg Company, New York, N. Y. Chocolate candy. No. 75,218; Sept. 14; Gaz. vol. 140; p. 502.  
 Stern and Whittaker, New York, N. Y. Neckties and scarfs. No. 74,702; Aug. 3; Gaz. vol. 145; p. 251.  
 Stetson, G. R., Boston, Mass. Heel-cushions for boots and shoes. No. 72,883; Mar. 2; Gaz. vol. 140; p. 250.  
 Stettner Chamotte-Fabrik Actien-Gesellschaft, vormals Didier, Stettin, Germany. Chamotte ware. No. 73,485; Apr. 20; Gaz. vol. 141; p. 863.  
 Stevens Brothers, Cedarville, N. J. Canned fruits and vegetables. No. 72,315; Jan. 19; Gaz. vol. 138; p. 763.  
 Stewart & Co., Baltimore, Md. Roasted coffee. No. 72,592; Feb. 2; Gaz. vol. 139; p. 195.  
 Stewart Machinery Mfg. Co., Hammond, Ind. Certain machinery. No. 72,176; Jan. 5; Gaz. vol. 138; p. 253.  
 Stickley, G., New York, N. Y. Monthly magazine. No. 74,104; June 15; Gaz. vol. 143; p. 861.  
 Stieff, C. M., Baltimore, Md. Pianos and piano-players. No. 75,615; Oct. 26; Gaz. vol. 147; p. 1031.  
 Stiegler & Co., G., New York, N. Y. Cordial containing wine, quinquina, and brandy. No. 72,502; Jan. 26; Gaz. vol. 138; p. 962.  
 Stilson Kellogg Shoe Co., Tacoma, Wash. Certain shoes. No. 72,295; Jan. 12; Gaz. vol. 138; p. 525.  
 Stirn, L. & E., New York, N. Y. Silk piece goods. No. 72,391; Jan. 19; Gaz. vol. 138; p. 765.  
 Stirn, L. & E., New York, N. Y. Silk piece goods. No. 73,810; May 18; Gaz. vol. 142; p. 853.  
 Stittville Canning Co., Stittville, N. Y. Canned vegetables. No. 72,914; Mar. 2; Gaz. vol. 140; p. 251.  
 Stittville Knitting Company, Stittville and Utica, N. Y. Shirts and drawers. No. 73,244; Apr. 6; Gaz. vol. 141; p. 281.  
 Stockhausen, J., Crefeld, Germany. Resins. No. 74,747; Aug. 3; Gaz. vol. 145; p. 253.  
 Stockhausen, K., Dresden, Germany. Crude and plate glass and hollow glassware for illuminating purposes. No. 75,793; Nov. 16; Gaz. vol. 148; p. 828.  
 Stockhausen, K., Dresden, Germany. Spectacle-glasses, lenses, and photographic light-filters. No. 75,818; Nov. 16; Gaz. vol. 148; p. 828.  
 Stone-Ordean-Wells Company, Duluth, Minn. Certain chemicals and medicines. Nos. 73,684-6; May 11; Gaz. vol. 142; p. 563.  
 Stone, Timlow & Co. Inc., Boston, Mass. Animal-skins. No. 74,330; July 6; Gaz. vol. 144; p. 271.  
 Stonewall Cotton Mills, Stonewall, Miss. Certain textiles. No. 76,233; Dec. 28; Gaz. vol. 149; p. 1116.  
 Stott, D., Detroit, Mich. Wheat-flour. No. 74,875; Aug. 17; Gaz. vol. 145; p. 759.  
 Stott, D., Detroit, Mich. Rye-flour. No. 74,958; Aug. 24; Gaz. vol. 145; p. 1017.  
 Stott, D., Detroit, Mich. Wheat-flour. No. 75,949; Nov. 30; Gaz. vol. 148; p. 1340.  
 Strader & Son, R. S., Lexington, Ky. Straight whisky. No. 72,503; Jan. 26; Gaz. vol. 138; p. 962.  
 Strange, H. M., Woodlawn, Ala. Remedy for rheumatism. No. 73,345; Apr. 13; Gaz. vol. 141; p. 562.  
 Strate-Fold Manufacturing Co., Mount Vernon and New York, N. Y. Ladies' hair-wavers. No. 72,752; Feb. 16; Gaz. vol. 139; p. 726.  
 Stratford, F. B., Jersey City, N. J. Fibrous bandages for shrubbery to kill insects. No. 75,172; Sept. 7; Gaz. vol. 146; p. 252.  
 Strauss & Co., I., New York, N. Y. Crockery, earthenware, and porcelain. No. 73,985; June 8; Gaz. vol. 143; p. 557.  
 Strawbridge & Clothier, Philadelphia, Pa. Leather gloves. No. 72,731; Feb. 16; Gaz. vol. 139; p. 726.  
 Strawbridge & Clothier, Philadelphia, Pa. Leather gloves. No. 75,547; Oct. 12; Gaz. vol. 147; p. 511.  
 Stricker, H. A., Chicago, Ill. Piano, furniture, and wood polish. No. 73,430; Apr. 20; Gaz. vol. 141; p. 861.  
 Strohmeier & Arpe Company, New York, N. Y. Safety-matches. No. 72,134; Jan. 5; Gaz. vol. 138; p. 252.  
 Strohmeier & Arpe Company, New York, N. Y. Night-lights. No. 72,504; Jan. 26; Gaz. vol. 138; p. 962.  
 Strohmeier & Arpe Company, New York, N. Y. Snuff, Swedish twist-tobacco, and Scandinavian cigars. No. 72,593; Feb. 2; Gaz. vol. 139; p. 195.  
 Strohmeier & Arpe Company, New York, N. Y. Certain food preparations. Nos. 72,594-5; Feb. 2; Gaz. vol. 139; p. 195.  
 Strohmeier & Arpe Company, New York, N. Y. Certain foods. Nos. 72,939-47; Mar. 2; Gaz. vol. 140; p. 252.  
 Strohmeier & Arpe Company, New York, N. Y. Certain foods. No. 73,116; Mar. 16; Gaz. vol. 140; p. 752.  
 Strohmeier & Arpe Company, New York, N. Y. Smoked sardines in oil. No. 73,117; Mar. 16; Gaz. vol. 140; p. 752.  
 Strohmeier & Arpe Company, New York, N. Y. Certain foods. No. 73,224; Mar. 30; Gaz. vol. 140; p. 1204.  
 Strohmeier & Arpe Company, New York, N. Y. Macaroni, spaghetti, vermicelli, and imported sardines. No. 73,225; Mar. 30; Gaz. vol. 140; p. 1204.  
 Strohmeier & Arpe Company, New York, N. Y. Certain foods. No. 73,285; Apr. 6; Gaz. vol. 141; p. 282.  
 Strohmeier & Arpe Company, New York, N. Y. Certain foods. Nos. 73,385-6; Apr. 13; Gaz. vol. 141; p. 563.  
 Strohmeier & Arpe Company, New York, N. Y. Certain foods. No. 73,402; Apr. 13; Gaz. vol. 141; p. 563.  
 Strohmeier & Arpe Company, New York, N. Y. Certain foods. No. 73,482; Apr. 20; Gaz. vol. 141; p. 863.  
 Strohmeier & Arpe Company, New York, N. Y. Smoked sardines in olive-oil. No. 75,219; Sept. 14; Gaz. vol. 146; p. 502.  
 Strohmeier & Arpe Company, New York, N. Y. Certain foods. No. 75,819; Nov. 16; Gaz. vol. 148; p. 828.  
 Strong-Battelle Mfg. Co., Bellaire, Ohio. Enameled metal ware. No. 72,625; Feb. 9; Gaz. vol. 139; p. 457.  
 Strong-Battelle Mfg. Co., Bellaire, Ohio. Enameled metal ware. No. 74,213; June 22; Gaz. vol. 143; p. 1106.  
 Strong Steel Foundry Company, Buffalo, N. Y. Steel castings. No. 74,188; June 22; Gaz. vol. 143; p. 1105.  
 Strout, Stritter & Co., Lynn, Mass. Leather boots, shoes, and slippers. No. 72,884; Mar. 2; Gaz. vol. 140; p. 250.  
 Stuhr & Co., C. F., Hamburg, Germany. Caviar, anchovies or sardels, and shrimps. No. 72,475; Jan. 26; Gaz. vol. 138; p. 961.  
 Suffolk Drug Corporation, Suffolk, Va. Carbonated tonic beverage. No. 76,262; Dec. 28; Gaz. vol. 149; p. 1117.  
 Suffolk Peanut Co., Suffolk, Va. Peanuts. No. 75,326; Sept. 21; Gaz. vol. 146; p. 716.  
 Suffolk Peanut Co., Suffolk, Va. Peanuts. Nos. 75,517-18; Oct. 12; Gaz. vol. 147; p. 513.  
 Sullivan Packing Company, Detroit, Mich. Hams, lard, and bacon. No. 75,383; Sept. 28; Gaz. vol. 146; p. 954.  
 Sullivan, R. G., Manchester, N. H. Cigars. No. 75,384; Sept. 28; Gaz. vol. 146; p. 954.  
 Summit City Soap Works, Fort Wayne, Ind. Soap. No. 74,394; July 6; Gaz. vol. 144; p. 273.  
 Sumner Iron Works, Everett, Wash. Certain machinery. No. 76,055; Dec. 7; Gaz. vol. 149; p. 307.  
 Sun Company, Philadelphia, Pa. Lubricating-oils. Nos. 72,626-8; Feb. 9; Gaz. vol. 139; p. 457.  
 Sun Company, Philadelphia, Pa. Substitute for linseed and cotton-seed oils. No. 72,629; Feb. 9; Gaz. vol. 139; p. 457.  
 Sun Company, Philadelphia, Pa. Naphtha. No. 72,630; Feb. 9; Gaz. vol. 139; p. 458.  
 Sun Company, Philadelphia, Pa. Lubricating-oils. Nos. 72,631-7; Feb. 9; Gaz. vol. 139; p. 458.  
 Sun Company, Philadelphia, Pa. Lubricating-oils. No. 72,672; Feb. 9; Gaz. vol. 139; p. 457.  
 Sun Company, Philadelphia, Pa. Spirits of turpentine and substitute therefor. Nos. 72,673-5; Feb. 9; Gaz. vol. 139; p. 459.  
 Sunlit Fruit Company, West Berkeley, Cal. Canned fruits and vegetables. No. 75,883; Nov. 23; Gaz. vol. 148; p. 1082.  
 Sunlit Fruit Company, West Berkeley, Cal. Canned fruits. Nos. 76,003-4; Dec. 7; Gaz. vol. 149; p. 305.  
 Sunlit Fruit Company, West Berkeley, Cal. Canned fruits. No. 76,201; Dec. 28; Gaz. vol. 149; p. 1115.  
 Superior Refining Co., Longton, Kans. Certain oils and greases. No. 75,519; Oct. 12; Gaz. vol. 147; p. 513.  
 Surbrug, J. W., Montclair, N. J. Pipes. No. 75,711; Nov. 2; Gaz. vol. 148; p. 276.  
 Surgical Supply Importing Co., New York, N. Y. Certain surgical instruments and supplies. No. 74,748; Aug. 3; Gaz. vol. 145; p. 253.  
 Susini, J. de, New York, N. Y. Cigarettes. No. 74,189; June 22; Gaz. vol. 143; p. 1105.  
 Swan, S. N., Freeport, Ill. Pianos and organs. Nos. 73,388-9; Apr. 13; Gaz. vol. 141; p. 563.  
 Swanson Mfg. Co., Shenandoah, Iowa. Cultivators. No. 73,118; Mar. 16; Gaz. vol. 140; p. 752.  
 Sweet Orr & Co., Newburgh, Wappingers Falls, Brooklyn, and New York, N. Y.; Chicago and Joliet, Ill., and Philadelphia, Pa. Negligée and workmen's shirts. No. 72,732; Feb. 16; Gaz. vol. 139; p. 726.  
 Sweet, Orr & Company, New York, Newburgh, Wappingers Falls, and Brooklyn, N. Y., and Joliet, Ill. Overalls, coats, and trousers. No. 74,749; Aug. 3; Gaz. vol. 145; p. 253.  
 Swift & Company, Boston, Mass. Cured, salted, and dried fish. No. 73,286; Apr. 6; Gaz. vol. 141; p. 282.  
 Sylvanus Smith & Co., Inc., Gloucester, Mass. Salted fish. Nos. 72,505-6; Jan. 26; Gaz. vol. 138; p. 962.  
 Sylvanus Smith & Co. Inc., Gloucester, Mass. Fish and fish-cake. No. 74,617; July 27; Gaz. vol. 144; p. 1086.  
 Sylvanus Smith & Co., Inc., Gloucester, Mass. Salted, smoked, and pickled fish. No. 74,703; Aug. 3; Gaz. vol. 145; p. 251.  
 Synvita Medicine Co., Lima, Ohio. Remedies for certain diseases. No. 76,169; Dec. 21; Gaz. vol. 149; p. 830.  
 Syracuse Smelting Works, New York, N. Y. No. 74,355; July 6; Gaz. vol. 144; p. 272.  
 Syracuse Twist Drill Company, Syracuse, N. Y. Tools. No. 74,395; July 6; Gaz. vol. 144; p. 273.  
 T. C. Keller & Co., Chicago, Ill. Coal. No. 72,628; Feb. 2; Gaz. vol. 139; p. 193.  
 T. M. Sinclair & Co., Ltd., Cedar Rapids, Iowa. Compound of lard, beef-fat, and cotton-seed oil. No. 73,119; Mar. 16; Gaz. vol. 140; p. 752.  
 Tacey, W. C., Brownsville, N. Y. Preparation for waterproofing boots, shoes, harness, &c. No. 74,079; June 15; Gaz. vol. 143; p. 860.  
 Tacoma Grain Company, Tacoma, Wash. Wheat-flour. No. 73,848; May 25; Gaz. vol. 142; p. 1110.  
 Takanashi, H., Noda, Japan. Sauce (soy). No. 75,385; Sep. 28; Gaz. vol. 146; p. 954.  
 Tanke, O. W., Chicago, Ill. Hair-tonic for dandruff. No. 74,573; July 20; Gaz. vol. 144; p. 815.



*Alphabetical list of registrants of trade-marks—Continued.*

- Tannenholz, B., Detroit, Mich. Wines. No. 74,190; June 22; Gaz. vol. 143; p. 1105.
- Tanner, P. J., St. Louis, Mo. Non-intoxicating soda-fountain drink. No. 74,574; July 20; Gaz. vol. 144; p. 815.
- Taplin, Rice-Clarkin Company, Akron, Ohio. Certain heating apparatus. No. 76,048; Dec. 7; Gaz. vol. 149; p. 307.
- Tappan Shoe Manufacturing Company, Coldwater, Mich. Shoes. No. 75,775; Nov. 16; Gaz. vol. 148; p. 827.
- Tauber, Ryttenberg & Co., New York, N. Y. Certain clothing. Nos. 72,733-4; Feb. 16; Gaz. vol. 139; p. 726.
- Taylor Brothers Company, (Inc.), Battle Creek, Mich. Chocolates. No. 73,127; Mar. 16; Gaz. vol. 140; p. 753.
- Taylor-Burt Co., Holyoke, Mass. Certain named papers. No. 75,140; Sept. 7; Gaz. vol. 146; p. 252.
- Taylor Provision Co., Trenton, N. J. Pork roll. No. 73,183; Mar. 23; Gaz. vol. 140; p. 998.
- Taylor, T. P., Bridgeport, Conn. Hose-supporters. No. 73,417; Apr. 20; Gaz. vol. 141; p. 861.
- Tea Consumers' Company, London, England. Tea and coffee. No. 75,820; Nov. 16; Gaz. vol. 148; p. 829.
- Teller Coffee Company, Detroit, Mich. Coffee. No. 73,604; May 4; Gaz. vol. 142; p. 284.
- Teller Coffee Company, Detroit, Mich. Coffee. No. 74,165; June 22; Gaz. vol. 143; p. 1104.
- Teller Coffee Company, Detroit, Mich. Blended coffee. No. 74,259; June 29; Gaz. vol. 143; p. 1340.
- Tennessee Coffee Co., Nashville, Tenn. Roasted coffee. No. 73,245; Apr. 6; Gaz. vol. 141; p. 281.
- Terabentine Co., Philadelphia, Pa. Sweeping compounds. No. 73,652; May 4; Gaz. vol. 142; p. 285.
- Terra-Ceja Estates, Incorporated, Greenwich, Conn. Grape-fruit and oranges. No. 73,458; Apr. 20; Gaz. vol. 141; p. 862.
- Texas Company, Beaumont and Houston, Tex., and New York, N. Y. Petroleum products. No. 76,131; Dec. 14; Gaz. vol. 149; p. 599.
- Texas Seed & Floral Co., Dallas, Tex. Seeds. No. 73,577; May 4; Gaz. vol. 142; p. 283.
- Texas Seed & Floral Co., Dallas, Tex. Poultry foods. No. 74,166; June 22; Gaz. vol. 143; p. 1104.
- The Fair, Chicago, Ill. Tennis-rackets, tennis-balls, and tennis-nets. No. 73,135; Mar. 16; Gaz. vol. 140; p. 753.
- Theo. H. Davies & Co. Ltd., Honolulu, Hawaii. Cigars. No. 73,425; Apr. 20; Gaz. vol. 141; p. 861.
- Theo. H. Davies & Co. Ltd., Honolulu, Hawaii. Canned salmon. No. 73,459; Apr. 20; Gaz. vol. 141; p. 862.
- Theo. H. Davies & Co. Ltd., Honolulu, Hawaii. Canned salmon and catsup. No. 73,460; Apr. 20; Gaz. vol. 141; p. 862.
- Theo. H. Davies & Co. Ltd., Honolulu, Hawaii. Canned salmon. No. 73,461; Apr. 20; Gaz. vol. 141; p. 862.
- Theo. Hamm Brewing Company, St. Paul, Minn. Malt beverage. No. 74,026; June 8; Gaz. vol. 143; p. 558.
- Theo. Noel Company, Chicago, Ill. Inhalers. No. 73,091; Mar. 16; Gaz. vol. 140; p. 752.
- Theo. Noel Company, Chicago, Ill. Medicines. No. 75,884; Nov. 23; Gaz. vol. 148; p. 1082.
- Theobald, H. O., Binghamton, N. Y. Hair-tonic and shampoo. No. 74,575; July 20; Gaz. vol. 144; p. 815.
- Theobald & Oppenheimer Co., Philadelphia, Pa. Cigars. No. 74,576; July 20; Gaz. vol. 144; p. 815.
- Theobald and Son Co., Columbus, Ohio. Whisky. No. 76,218; Dec. 28; Gaz. vol. 149; p. 1115.
- Therese Hynds Mfg. Co., New York, N. Y. Corsets. No. 75,458; Oct. 5; Gaz. vol. 147; p. 232.
- Thiel, A., Boston, Mass. Blended whisky. No. 73,960; June 1; Gaz. vol. 143; p. 255.
- Thieme & Wagner Brewing Co., La Fayette, Ind. Non-intoxicating beer. No. 72,316; Jan. 19; Gaz. vol. 138; p. 763.
- Thimble, F. N., New York, N. Y. Insect and rodent destroyer. No. 72,979; Mar. 9; Gaz. vol. 140; p. 501.
- Thinket Packing Co., Portland, Oreg., and Funtar Bay, Alaska. Canned salmon. No. 73,226; Mar. 30; Gaz. vol. 140; p. 1204.
- Thomas Bros., Waycross, Ga. Blood-purifier. No. 72,849; Mar. 2; Gaz. vol. 140; p. 249.
- Thomas De La Rue & Company, Limited, London, England. Certain stationery. No. 73,811; May 18; Gaz. vol. 142; p. 853.
- Thomas De La Rue & Company, Limited, London, England. Inks. Nos. 73,857-8; May 25; Gaz. vol. 142; p. 1110.
- Thomas De La Rue & Company, Limited, London, England. Reservoir and fountain pens and other writing-pens, rulers, writing-papers, and envelopes. No. 74,488; July 13; Gaz. vol. 144; p. 559.
- Thomas, E. D., New York, N. Y. Toilet preparation. No. 75,262; Sept. 14; Gaz. vol. 146; p. 503.
- Thomas, J. J., Houston, Tex. Remedy for certain diseases. No. 74,669; July 27; Gaz. vol. 144; p. 1087.
- Thomas, N. F., Danville, Va. Non-alcoholic carbonated tonic beverage. No. 74,839; Aug. 10; Gaz. vol. 145; p. 509.
- Thomass Gebrüder, Bierbrauerei zum Thomasbräu, Munich, Germany. Beer. No. 75,586; Oct. 19; Gaz. vol. 147; p. 768.
- Thompson, A. W., Manchester, N. H., and Fitchburg, Mass. Humidifiers. No. 73,144; Mar. 16; Gaz. vol. 140; p. 753.
- Thompson-Adams Leather Co., Philadelphia, Pa. Kid, calf, and colt leathers. No. 74,934; Aug. 17; Gaz. vol. 145; p. 761.
- Thompson & Tucker Lumber Company, Houston, Tex. Lumber. No. 72,440; Jan. 26; Gaz. vol. 138; p. 960.
- Thos. Goggan & Bros., Galveston, Tex. Certain musical instruments. No. 72,638; Feb. 9; Gaz. vol. 139; p. 458.
- Thos. Goggan & Bros., Galveston, Tex. Pianos and organs, guitars, mandolins, and banjos. No. 72,812; Feb. 23; Gaz. vol. 139; p. 986.
- Thumb, E. W., Chicago, Ill. Polishes and dressings. No. 73,578; May 4; Gaz. vol. 142; p. 283.
- Tiedemann, C. C., Milwaukee, Wis. Leather shoes. No. 73,418; Apr. 20; Gaz. vol. 141; p. 861.
- Tinchant Gonzalez & Cie., J., Antwerp, Belgium. Cigars and cigarettes. No. 72,948; Mar. 2; Gaz. vol. 140; p. 252.
- Tipton, M. R., Portland, Oreg., and Seattle, Wash. Medicine for amenorrhea, &c. No. 75,776; Nov. 16; Gaz. vol. 148; p. 827.
- Tischer, J., Astoria, N. Y. Garment-supporters. No. 73,975; June 8; Gaz. vol. 143; p. 557.
- Tobin, J. W., New York, N. Y. Fuel-burning lamps. No. 75,587; Oct. 19; Gaz. vol. 147; p. 768.
- Toch Brothers, New York, N. Y. Material to be added to dry cement. No. 74,577; July 20; Gaz. vol. 144; p. 815.
- Toch Brothers, New York, N. Y. Material to be added to dry cement for waterproofing concrete. No. 74,840; Aug. 10; Gaz. vol. 145; p. 509.
- Tomkins Brothers, Newark, N. J. Wall-plaster. No. 75,975; Nov. 30; Gaz. vol. 148; p. 1340.
- Tootle Campbell Dry Goods Co., St. Joseph, Mo. Certain clothing. No. 72,296; Jan. 12; Gaz. vol. 138; p. 525.
- Tootle Campbell Dry Goods Co., St. Joseph, Mo. Suspenders, neckties, and neckscarfs. No. 72,639; Feb. 9; Gaz. vol. 139; p. 458.
- Tootle Campbell Dry Goods Co., St. Joseph, Mo. Certain clothing. No. 72,640; Feb. 9; Gaz. vol. 139; p. 458.
- Tootle Campbell Dry Goods Co., St. Joseph, Mo. Cotton piece goods. No. 72,641; Feb. 9; Gaz. vol. 139; p. 458.
- Tootle Campbell Dry Goods Co., St. Joseph, Mo. Certain textiles. No. 75,064; Aug. 31; Gaz. vol. 145; p. 1246.
- Tootle Campbell Dry Goods Co., St. Joseph, Mo. Certain textiles. No. 75,339; Sept. 21; Gaz. vol. 146; p. 717.
- Tootle Wheeler & Motter Mer. Co., assignor to Wheeler and Motter Mercantile Company, St. Joseph, Mo. Men's dress and negligée shirts. No. 72,885; Mar. 2; Gaz. vol. 140; p. 250.
- Tootle Wheeler & Motter Mer. Co., assignor to Wheeler and Motter Mercantile Company, St. Joseph, Mo. Zephyr gingham. No. 73,072; Mar. 16; Gaz. vol. 140; p. 751.
- Tootle Wheeler & Motter Mer. Co., assignor to Wheeler and Motter Mercantile Company, St. Joseph, Mo. Gingham. No. 73,909; June 1; Gaz. vol. 143; p. 253.
- Tootle Wheeler & Motter Mer. Co., assignor to Wheeler and Motter Mercantile Company, St. Joseph, Mo. Cotton flannels. Nos. 73,073-4; Mar. 16; Gaz. vol. 140; p. 751.
- Tootle Wheeler & Motter Mercantile Company, assignor to Wheeler and Motter Mercantile Company, St. Joseph, Mo. Batiste. No. 73,246; Apr. 6; Gaz. vol. 141; p. 281.
- Tootle Wheeler & Motter Mercantile Company, assignor to Wheeler and Motter Mercantile Company, St. Joseph, Mo. Muslin sheeting. No. 73,247; Apr. 6; Gaz. vol. 141; p. 281.
- Tootle Wheeler & Motter Mercantile Company, assignor to Wheeler and Motter Mercantile Company, St. Joseph, Mo. Batiste. No. 73,248; Apr. 6; Gaz. vol. 141; p. 281.
- Tootle Wheeler & Motter Mercantile Company, assignor to Wheeler and Motter Mercantile Company, St. Joseph, Mo. Certain clothing. No. 73,287; Apr. 6; Gaz. vol. 141; p. 282.
- Tootle Wheeler & Motter Mercantile Company, assignor to Wheeler and Motter Mercantile Company, St. Joseph, Mo. Men's, women's, and children's knit, cotton, and woolen underwear. No. 73,346; Apr. 13; Gaz. vol. 141; p. 562.
- Tootle Wheeler & Motter Mercantile Company, assignor to Wheeler and Motter Mercantile Company, St. Joseph, Mo. Percales and canton-flannels. No. 73,555; Apr. 27; Gaz. vol. 141; p. 1159.
- Tootle Wheeler & Motter Mercantile Company, assignor to Wheeler and Motter Mercantile Company, St. Joseph, Mo. Percales, batistes, and canton-flannels. No. 73,566; Apr. 27; Gaz. vol. 141; p. 1159.
- Tootle Wheeler & Motter Mercantile Company, assignor to Wheeler and Motter Mercantile Company, St. Joseph, Mo. Canton-flannels. No. 73,687; May 11; Gaz. vol. 142; p. 563.
- Topken Company, New York, N. Y. Leather gloves. Nos. 72,886-7; Mar. 2; Gaz. vol. 140; p. 250.
- Torrey, S. H., Jr., Rushville, N. Y. Scouring, cleansing, and polishing powder. No. 74,490; July 13; Gaz. vol. 144; p. 559.
- Tottle & Co., W. A., Baltimore, Md. Brushes. No. 75,830; Nov. 16; Gaz. vol. 148; p. 829.
- Towle Maple Syrup Company, St. Paul, Minn. Blend of cane and maple syrups. No. 74,056; June 15; Gaz. vol. 143; p. 859.
- Townsend & Co., E. M., New York, N. Y. Hosiery. Nos. 73,665-6; May 11; Gaz. vol. 142; p. 563.
- Townsend & Co., E. M., New York, N. Y. Hosiery. No. 74,396; July 6; Gaz. vol. 144; p. 273.
- Townsend & Co., E. M., New York, N. Y. Hosiery. No. 75,520; Oct. 12; Gaz. vol. 147; p. 513.
- Townsend & Co., E. M., New York, N. Y. Hosiery. Nos. 75,588-9; Oct. 19; Gaz. vol. 147; p. 768.
- Townsend & Co., E. M., New York, N. Y. Hosiery. No. 76,234; Dec. 28; Gaz. vol. 149; p. 1116.
- Tracy, J. N., Memphis, Tenn. Blood, stomach, bowel, liver, kidney, bladder, skin, and lung remedy. No. 75,630; Oct. 26; Gaz. vol. 147; p. 1032.
- Trade Periodical Company, Chicago, Ill. Publication. No. 73,961; June 1; Gaz. vol. 143; p. 255.
- Traiser & Co., H., Boston, Mass. Cigars. No. 75,386; Sept. 28; Gaz. vol. 146; p. 954.



*Alphabetical list of registrants of trade-marks—Continued.*

- Traiser & Co., H., Boston, Mass. Cigars. No. 76,058; Dec. 7; Gaz. vol. 149; p. 307.
- Tréousse & Cie., Chaumont, France. Leather gloves. Nos. 73,493-502; Apr. 27; Gaz. vol. 141; p. 1157.
- Tréousse & Cie., Chaumont, France. Leather gloves. No. 73,667; May 11; Gaz. vol. 142; p. 563.
- Trenberth and Bauder, Redondo, Cal. Cured fish. No. 74,935; Aug. 17; Gaz. vol. 145; p. 761.
- Trenton Rubber Manufacturing Company, Hamilton township, Mercer county, N. J. Brakes and clutches for vehicles. No. 74,491; July 13; Gaz. vol. 144; p. 559.
- Tribune Company, Chicago, Ill. Comic sections of newspapers. No. 76,219; Dec. 28; Gaz. vol. 149; p. 1115.
- Tripp, Barker & Company, New York, N. Y. Certain textiles. No. 75,885; Nov. 23; Gaz. vol. 148; p. 1082.
- Tropical Oil Company, Cleveland, Ohio. Dip and disinfectant for live stock. No. 75,459; Oct. 5; Gaz. vol. 147; p. 232.
- Tropical Oil Company, Cleveland, Ohio. Lubricating compound. No. 76,035; Dec. 7; Gaz. vol. 149; p. 306.
- Tropen Works, New York, N. Y. Medicinal preparation containing albumen. No. 72,209; Jan. 5; Gaz. vol. 138; p. 254.
- Trowbridge Chocolate Chip Co., Meadville, Pa. Candy. No. 73,737; May 11; Gaz. vol. 142; p. 565.
- Trowbridge Chocolate Chip Co., Meadville, Pa. Candy. No. 75,102; Aug. 31; Gaz. vol. 145; p. 1247.
- Trowbridge Chocolate Chip Company, Meadville, Pa. Chocolate candies. No. 72,094; Jan. 5; Gaz. vol. 138; p. 251.
- Trowbridge Chocolate Chip Company, Meadville, Pa. Chocolate candies. No. 72,507; Jan. 26; Gaz. vol. 138; p. 962.
- Tucker, W., Ardsley-on-Hudson, N. Y. Worm-eradicator. No. 76,263; Dec. 28; Gaz. vol. 149; p. 1117.
- Turk & Chanowsky, Gainesville, Tex. Straight Bourbon whisky. No. 74,641; July 27; Gaz. vol. 144; p. 1086.
- Turner Bros. Ltd., Rochdale, England. Packing and jointing materials. No. 75,735; Nov. 9; Gaz. vol. 148; p. 565.
- Turner, C. A. P., Minneapolis, Minn. Copies of plans and specifications. No. 74,167; June 22; Gaz. vol. 143; p. 1104.
- Turner, Day & Woolworth Handle Co. Louisville, Ky.; Memphis and Nashville, Tenn., and Huntington, W. Va. Wooden tool-handles. No. 76,036; Dec. 7; Gaz. vol. 149; p. 306.
- Turner, Day & Woolworth Handle Co., Louisville, Ky.; Memphis and Nashville, Tenn., and Huntington, W. Va. Wooden tool-handles. No. 76,220; Dec. 28; Gaz. vol. 149; p. 1115.
- Turner, Day & Woolworth Handle Co., Louisville, Ky.; Memphis and Nashville, Tenn., and Huntington, W. Va. Wooden tool-handles. Nos. 76,235-40; Dec. 28; Gaz. vol. 149; p. 1116.
- Turner and Harrison Pen Manufacturing Company, Philadelphia, Pa. Writing-pens. No. 73,145; Mar. 16; Gaz. vol. 140; p. 753.
- Turner, R. L., San Bernardino, Cal. Syrup for making beverages. No. 74,105; June 15; Gaz. vol. 143; p. 861.
- Tuttle, C. E., Boston, Mass. Tooth-powder. No. 73,347; Apr. 13; Gaz. vol. 141; p. 562.
- Twin City Paper Company, Minneapolis, Minn. Paper and envelopes. No. 75,413; Sept. 28; Gaz. vol. 146; p. 955.
- Twylords Limited, Hanley, England. Certain plumbing-supplies. No. 73,307; Apr. 6; Gaz. vol. 141; p. 283.
- Tyler, F. R., Richmond, Va., assignor to Prophyl Dentifrice Co., Inc. Tooth powder and paste. No. 73,653; May 4; Gaz. vol. 142; p. 285.
- U. S. Automatic Lighting Company, Springfield, Mass. Hydrocarbon lamps and lamp burners. No. 75,193; Sept. 14; Gaz. vol. 146; p. 501.
- U. S. Horse Radish Co., Saginaw, Mich. Certain foods. No. 76,132; Dec. 14; Gaz. vol. 149; p. 599.
- U. S. Scarf Pin Guard Co., New York, N. Y. Gold-plated scarf-pin-securing devices. No. 73,211; Mar. 30; Gaz. vol. 140; p. 1203.
- Udell Works, Indianapolis, Ind. Ladders. No. 73,348; Apr. 13; Gaz. vol. 141; p. 562.
- Udowitsch, M., Cleveland, Ohio. Neckties. No. 74,243; June 29; Gaz. vol. 143; p. 1339.
- Ulmann & Co., B., New York, N. Y. Thread, floss, and rope for ornamental purposes. No. 72,392; Jan. 19; Gaz. vol. 138; p. 765.
- Ulrich, C. J., New York, N. Y. Remedies for burns, bruises, and ulcers. No. 76,264; Dec. 28; Gaz. vol. 149; p. 1117.
- Umbstaetter, H. D., Boston, Mass. Watch, pocket, and jewelry charms. No. 75,460; Oct. 5; Gaz. vol. 147; p. 232.
- Uncle Sam's Macaroni Company, Tecumseh, Mich. Certain foods. No. 76,005; Dec. 7; Gaz. vol. 149; p. 305.
- Underhill, J. T., Boston, Mass. Lath-hatchets. No. 75,173; Sept. 7; Gaz. vol. 146; p. 253.
- Underwood, W. H., Hutchinson, Kans. Apples. No. 72,317; Jan. 19; Gaz. vol. 138; p. 763.
- Union Bag and Paper Company, New York, N. Y. Paper bags. No. 74,618; July 27; Gaz. vol. 144; p. 1086.
- Union Brewing & Malting Co., San Francisco, Cal. Beer. No. 73,962; June 1; Gaz. vol. 143; p. 255.
- Union Carbide Company, New York, N. Y. Calcium carbide. No. 73,153; Mar. 23; Gaz. vol. 140; p. 997.
- Union Card & Paper Co., New York, N. Y. Writing and printing paper, envelopes, and cardboard. No. 72,949; Mar. 2; Gaz. vol. 140; p. 252.
- Union Card & Paper Co., New York, N. Y. Writing and printing paper, envelopes, and cardboard. No. 73,567; Apr. 27; Gaz. vol. 141; p. 1159.
- Union Card & Paper Co., New York, N. Y. Writing and printing paper. No. 75,408; Sept. 28; Gaz. vol. 146; p. 954.
- Union Card & Paper Co., New York, N. Y. Writing and printing paper. No. 75,414; Sept. 28; Gaz. vol. 146; p. 955.
- Union Card & Paper Co., New York, N. Y. Writing and printing paper. No. 75,831; Nov. 23; Gaz. vol. 148; p. 829.
- Union Distilling Co., Cincinnati, Ohio. Blended whisky. No. 75,832; Nov. 16; Gaz. vol. 148; p. 829.
- Union Envelope Co., Richmond, Va. Envelopes. No. 74,397; July 6; Gaz. vol. 144; p. 273.
- Union Fishermen's Co-op. Pack'g Co., Astoria, Oreg. Canned salmon. No. 75,461; Oct. 5; Gaz. vol. 147; p. 232.
- Union Fishermen's Co-op. Pack'g Co., Astoria, Oreg. Canned salmon. No. 75,886; Nov. 23; Gaz. vol. 148; p. 1082.
- Union News Company, New York, N. Y. Post-cards. No. 72,950; Mar. 2; Gaz. vol. 140; p. 252.
- Union Oil Company, Providence, R. I. Cotton-seed oil intended for use as salad-oil. Nos. 73,342-3; Jan. 19; Gaz. vol. 138; p. 764.
- Union Oil Company, Providence, R. I. Cotton-seed oil intended for use as salad-oil. No. 73,120; Mar. 16; Gaz. vol. 140; p. 752.
- Union Oil Company, West New York, N. J., and New Orleans, La. Cotton-seed meal for feeding purposes. No. 76,189; Dec. 21; Gaz. vol. 149; p. 830.
- Union Paper & Twine Co., Detroit, Mich. Wrapping-paper. No. 73,568; Apr. 27; Gaz. vol. 141; p. 1159.
- Union Roofing & Manufacturing Company, St. Paul, Minn. Certain building materials. No. 73,874; May 25; Gaz. vol. 142; p. 1110.
- Union Roofing & Manufacturing Company, St. Paul, Minn. Certain construction materials. No. 75,194; Sept. 14; Gaz. vol. 146; p. 501.
- Union Smelting and Refining Company, New York, N. Y. Babbitt metal, white-metal alloys, phosphor-tin, and solder. Nos. 73,462-3; Apr. 20; Gaz. vol. 141; p. 862.
- Union Switch & Signal Company, Swissvale, Pa. Apparatus and machinery used in connection with railway signaling and interlocking systems. No. 74,704; Aug. 3; Gaz. vol. 145; p. 252.
- Union Switch & Signal Company, Swissvale, Pa. Electrical apparatus, machines, and supplies. No. 74,915; Aug. 17; Gaz. vol. 145; p. 761.
- Union Waxed & Lacquered Company, Hamburg, N. J. Sad-iron waxing and polishing mats. No. 75,754; Nov. 9; Gaz. vol. 148; p. 566.
- Union Wholesale Liquor Co., Chicago, Ill. Bitter-wine tonic. No. 74,876; Aug. 17; Gaz. vol. 145; p. 759.
- Unique Carbon Paper Co., Philadelphia, Pa. Carbon-paper and inked ribbons. No. 75,521; Oct. 12; Gaz. vol. 147; p. 513.
- United Asbestos Company Limited, London, England. Waterproof and fire-heat-resisting cement. No. 73,128; Mar. 16; Gaz. vol. 140; p. 753.
- United Asbestos Company Limited, London, England. Fireproof insulating asbestos slate-like building materials. No. 73,349; Apr. 13; Gaz. vol. 141; p. 562.
- United Clothing Stores Co., Cleveland, Ohio. Coats, vests, trousers, overcoats, and hats. No. 72,951; Mar. 2; Gaz. vol. 140; p. 252.
- United Drug Company, Boston, Mass. Absorbent cotton. No. 73,654; May 4; Gaz. vol. 142; p. 285.
- United Grocery Company, Jacksonville, Fla. Horse, mule, and cattle feed. No. 75,821; Nov. 17; Gaz. vol. 148; p. 829.
- United Shoe Machinery Company, Boston, Mass. Certain machinery. Nos. 72,303-4; Jan. 12; Gaz. vol. 138; p. 525.
- United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Certain tools. No. 72,305; Jan. 12; Gaz. vol. 138; p. 525.
- United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Leather boots and shoes. No. 72,735; Feb. 16; Gaz. vol. 139; p. 72.
- United States Bunting Co., Lowell, Mass. Bunting. No. 76,241; Dec. 28; Gaz. vol. 149; p. 1116.
- United States Fastener Co., Portland, Me., and Boston, Mass. Snap-fasteners. No. 72,888; Mar. 2; Gaz. vol. 140; p. 250.
- United States Hoffman Company, Syracuse, N. Y. Steam clothes-pressing machines. No. 72,889; Mar. 2; Gaz. vol. 140; p. 250.
- United States Malleable Iron Co., Toledo, Ohio. Malleable castings. No. 75,755; Nov. 9; Gaz. vol. 148; p. 566.
- United States Playing Card Co., Cincinnati, Ohio. Game counters and chips. Nos. 73,052-4; Mar. 9; Gaz. vol. 140; p. 503.
- United States Playing Card Co., Cincinnati, Ohio. Poker-chips. No. 73,655; May 4; Gaz. vol. 142; p. 285.
- United States Playing Card Co., Cincinnati, Ohio. Game counters and chips. Nos. 74,705-8; Aug. 3; Gaz. vol. 145; p. 252.
- United States Playing Card Company, Cincinnati, Ohio. Poker-chips. Nos. 75,340-5; Sept. 21; Gaz. vol. 146; p. 717.
- United States Playing Card Company, Cincinnati, Ohio. Poker-chips. No. 76,133; Dec. 14; Gaz. vol. 149; p. 599.
- United States Radiator Company, Dunkirk, N. Y. Boilers. No. 74,750; Aug. 3; Gaz. vol. 145; p. 253.
- United States Reg. Co. Ltd., Battle Creek, Mich. Floor and wall registers. No. 76,084; Dec. 14; Gaz. vol. 149; p. 597.
- United States Sherardizing Co., New Castle, Pa. Metal plates, bars, tubes, and castings. No. 75,237; Sept. 14; Gaz. vol. 146; p. 502.
- United States Steel Products Export Co., New York, N. Y. Iron or steel. No. 73,055; Mar. 9; Gaz. vol. 140; p. 503.
- Universal Cleaner & Manufacturing Co. (See Waggoner, E. L., assignor.)
- Universal Sanitary Mfg. Co., New Castle, Pa. Bath-tubs, closet-bowls, urinals, and lavatory and flushing tanks. No. 74,785; Aug. 10; Gaz. vol. 145; p. 508.
- Upham Bros. & Company Inc., Philadelphia, Pa. Sewing-thread. No. 72,508; Jan. 26; Gaz. vol. 138; p. 962.
- Upham Bros. & Company Inc., Philadelphia, Pa. Sewing-thread. No. 73,350; Apr. 13; Gaz. vol. 141; p. 562.
- Upham Bros. & Company Inc., Philadelphia, Pa. Sewing-thread. No. 74,976; Aug. 24; Gaz. vol. 145; p. 1018.



*Alphabetical list of registrants of trade-marks—Continued.*

- Urban, J. P., Cleveland, Ohio. Remedy for gonorrhea, gleet, and stricture. No. 73,631; May 4; Gaz. vol. 142; p. 284.
- Usines Métallurgiques de Vallorbe, Vallorbe, Switzerland. Files and gravers. Nos. 74,709-10; Aug. 3; Gaz. vol. 145; p. 252.
- Vaccaro Bros. & Co., New Orleans, La. Bananas. No. 73,688; May 11; Gaz. vol. 142; p. 563.
- Vacher, E. W., New Orleans, La. Remedy for croup. No. 74,331; July 6; Gaz. vol. 144; p. 271.
- Vacuum Oil Company, Rochester, N. Y. Oils, crasses, and waxes. Nos. 75,976-7; Nov. 30; Gaz. vol. 148; p. 1340.
- Valentine & Bentley Silk Co., Newton, N. J. Silk dress goods. No. 73,351; Apr. 13; Gaz. vol. 141; p. 562.
- Valentine & Bentley Silk Co., Newton, N. J., and New York, N. Y. Silk piece goods. No. 76,190; Dec. 21; Gaz. vol. 149; p. 830.
- Valentine, M. E., New York, N. Y. Cement for repairing rubber goods. No. 72,177; Jan. 5; Gaz. vol. 138; p. 253.
- Valentine & Son, A. S., Philadelphia, Pa. Cigars. Nos. 72,346-7; Jan. 19; Gaz. vol. 138; p. 764.
- Vallat & Perronnet, St. Etienne, France. Ribbons. No. 75,346; Sept. 21; Gaz. vol. 146; p. 717.
- Van Brocklin & Stover Co., Amsterdam, N. Y. Knit undershirts and drawers. No. 75,522; Oct. 12; Gaz. vol. 147; p. 513.
- Van Deusen Whip Co., H. M., Westfield, Mass. Whips. No. 73,556; Apr. 27; Gaz. vol. 141; p. 1159.
- Van Duzee, C. E. (See H. J. Nice Company, assignor.)
- Van Gorden, C. G., Spencer, Mass. Cigars. No. 73,963; June 1; Gaz. vol. 143; p. 255.
- Van Haren, F. E., San Francisco, Cal. Vegetable pills. No. 73,689; May 11; Gaz. vol. 142; p. 563.
- Van Rensselaer, C. H., Philadelphia, Pa. Scouring, cleansing, and polishing soap. No. 74,080; June 15; Gaz. vol. 143; p. 860.
- Van Scoy Chemical Co., Mount Gilead, Ohio. Medicines. No. 74,841; Aug. 10; Gaz. vol. 145; p. 509.
- Van Scoy Chemical Co., Mount Gilead, Ohio. Medicines for rheumatism and other muscular afflictions. No. 75,065; Aug. 31; Gaz. vol. 145; p. 1246.
- Vatdrip Company, New York, N. Y. Paint for the prevention of rust in metals. No. 74,301; June 29; Gaz. vol. 143; p. 1341.
- Vaughan Paint Co., Cleveland, Ohio. Wood-preserving oil. No. 74,106; June 15; Gaz. vol. 143; p. 861.
- Vélez, R., New York, N. Y. Vegetable compound extracts. No. 74,672; July 27; Gaz. vol. 144; p. 1087.
- Ventrone, F. P., Providence, R. I. Italian olive-oil. No. 74,977; Aug. 24; Gaz. vol. 145; p. 1018.
- Vereinigte Chininfabriken Zimmer & Co. Ges. mit beschränkter Haftung, Frankfurt-on-the-Main, Germany. Remedy for arteriosclerosis and attendant diseases. No. 74,332; July 6; Gaz. vol. 144; p. 271.
- Vereinigte Chininfabriken Zimmer & Co. Ges. mit beschränkter Haftung, Frankfurt-on-the-Main, Germany. Remedy against gonorrhea and cystitis. No. 74,333; July 6; Gaz. vol. 144; p. 271.
- Vernon, T. G., Chicago, Ill. Dental alloys and gold. No. 74,578; July 20; Gaz. vol. 144; p. 815.
- Vial, Paris, France. Medicine for syphilis and venereal contagious blood diseases. No. 72,610; Feb. 9; Gaz. vol. 139; p. 457.
- Vial, Paris, France. Emmenagogue medicines. No. 75,195; Sept. 14; Gaz. vol. 146; p. 501.
- Vial, Paris, France. Capsules containing alcoholic extract of cod-liver oil. No. 75,196; Sept. 14; Gaz. vol. 146; p. 501.
- Victor Oil and Supply Company, New York, N. Y. Rubber and fiber packings and packing-rings. No. 74,493; July 13; Gaz. vol. 144; p. 559.
- Victor Talking Machine Company, Camden, N. J. Trade journal. No. 74,842; Aug. 10; Gaz. vol. 145; p. 509.
- Victor Typewriter Company, New York, N. Y. Type-writing machines and parts thereof. No. 74,673; July 27; Gaz. vol. 144; p. 1087.
- Virginia-Carolina Chemical Company, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C., and Memphis, Tenn. Fertilizers. No. 72,596; Feb. 2; Gaz. vol. 139; p. 195.
- Virginia-Carolina Chemical Company, Jersey City, N. J.; Richmond and Norfolk, Va.; Charleston, S. C.; Savannah and Atlanta, Ga.; Montgomery, Ala.; Durham, N. C., and Memphis, Tenn. Fertilizers. No. 75,327; Sept. 21; Gaz. vol. 146; p. 716.
- Virginia Manufacturing Co., Norfolk, Va. Wooden butter-dishes. No. 75,462; Oct. 5; Gaz. vol. 147; p. 232.
- Virginia Manufacturing Company, Suffolk, Va. Fruit and vegetable baskets. No. 74,398; July 6; Gaz. vol. 144; p. 273.
- Voelkner & Harry Mfg. Co., Detroit, Mich. Hand-operated sprayers. No. 75,103; Aug. 31; Gaz. vol. 145; p. 1247.
- Voight, L. M., Cincinnati, Ohio. Chemical washing compound. No. 73,986; June 8; Gaz. vol. 143; p. 557.
- Voigt & Co., Chattanooga, Tenn. Laxative preparation. No. 73,771; May 18; Gaz. vol. 142; p. 851.
- Von Bremen, Asche & Co., New York, N. Y. Certain foods. No. 75,288; Sept. 21; Gaz. vol. 146; p. 715.
- Von Bremen, Asche & Co., New York, N. Y. Olive-oil, macaroni, capers, &c. No. 75,756; Nov. 9; Gaz. vol. 148; p. 566.
- Von Kokeritz & Co., R. G., New York, N. Y. Asbestos and mica steam-packing. No. 73,781; May 18; Gaz. vol. 142; p. 852.
- Vrooman, F. H. and E. B., Chicago, Ill. Sink-strainers. No. 72,642; Feb. 9; Gaz. vol. 139; p. 458.
- Vulcanized Rubber Co., New York, N. Y. Combs made of hard rubber. No. 73,632; May 4; Gaz. vol. 142; p. 284.
- Vulcanized Rubber Co., New York, N. Y. Rubber combs. No. 76,160; Dec. 21; Gaz. vol. 149; p. 829.
- W. A. Gaines & Company, Frankfort, Ky. Whisky. No. 74,537; July 20; Gaz. vol. 144; p. 814.
- W. A. Ives Manufacturing Co., Wallingford, Conn. Certain tools. No. 73,964; June 1; Gaz. vol. 143; p. 255.
- W. B. Hays Bottling Co., Poplar Bluff, Mo. Non-alcoholic carbonated tonic beverages. No. 75,174; Sept. 7; Gaz. vol. 146; p. 253.
- W. C. Gundelfinger Co., Pittsburg, Pa. Imported olive-oil. No. 73,772; May 18; Gaz. vol. 142; p. 851.
- W. G. Hagar Iron Company, St. Louis, Mo. Iron for use for making stay-bolts. No. 74,711; Aug. 3; Gaz. vol. 145; p. 252.
- W. H. McElwain Company, Boston, Mass. Sole-leather. No. 73,910; June 1; Gaz. vol. 143; p. 253.
- W. L. Bucher Cigar Co., Dayton, Ohio. Cigars. No. 75,651; Oct. 26; Gaz. vol. 147; p. 1032.
- W. L. Roach & Co., Hart, Mich. Canned fruits and vegetables. No. 73,875; May 25; Gaz. vol. 142; p. 1110.
- Wadsworth, Howland & Co., Incorporated, Boston, Mass. Liquid paint-remover. No. 74,214; June 22; Gaz. vol. 143; p. 1106.
- Wadsworth, Howland & Co., Incorporated, Boston, Mass. Painters' brushes. No. 75,328; Sept. 21; Gaz. vol. 146; p. 716.
- Waggoner, E. L., assignor to Universal Cleaner & Manufacturing Co., St. Louis, Mo. Cleaning and polishing powder. No. 72,736; Feb. 16; Gaz. vol. 139; p. 726.
- Wagner Brewing Co., Granite City, Ill., assignor to Independent Breweries Co., St. Louis, Mo. Beer. No. 72,952; Mar. 2; Gaz. vol. 140; p. 252.
- Wagner, E. H., New York, N. Y. Hand-stick fireworks. No. 75,420; Sept. 28; Gaz. vol. 146; p. 955.
- Wainwright, G. L., Winchester, Ky. Carbonated tonic beverage and syrup for making same. No. 74,843; Aug. 10; Gaz. vol. 145; p. 509.
- Waldes & Co., Karolinenthal-Frag, Austria-Hungary. Buttons. Nos. 75,263-4; Sept. 14; Gaz. vol. 146; p. 503.
- Walker, A. D., New York, N. Y. Sheetings and drillings. No. 73,605; May 4; Gaz. vol. 142; p. 284.
- Walker, A. D., New York, N. Y. Sheetings and drillings. No. 73,738; May 11; Gaz. vol. 142; p. 565.
- Walker, A. D., New York, N. Y. Sheetings and drillings. No. 73,789; May 18; Gaz. vol. 142; p. 852.
- Walker & Company, W. H., Buffalo, N. Y. Leather boots and shoes. No. 73,154; Mar. 23; Gaz. vol. 140; p. 997.
- Walker Pharmacal Company, St. Louis, Mo. Antipyretics, narcotics, and soporifics. No. 73,483; Apr. 20; Gaz. vol. 141; p. 863.
- Walker, Richards & Thayer, Muskegon, Mich. Candy. No. 74,786; Aug. 10; Gaz. vol. 145; p. 508.
- Wallis Wallis Gum Co., Knoxville, Tenn. Pepsin chewing-gum. No. 72,692; Feb. 9; Gaz. vol. 139; p. 459.
- Wallace & Co., New York, N. Y. Chocolate candies. No. 72,915; Mar. 2; Gaz. vol. 140; p. 251.
- Wamsutta Mills, New Bedford, Mass. Shirts. No. 72,464; Jan. 26; Gaz. vol. 138; p. 961.
- Ward Bros. Co., Inc., Aberdeen, S. D. Chewing-candy. No. 73,790; May 18; Gaz. vol. 142; p. 852.
- Ward, G. S., Pittsburg, Pa. Bread. No. 75,104; Aug. 31; Gaz. vol. 145; p. 1247.
- Ward-Mackey Co., Pittsburg, Pa. Crackers, biscuits, cake, cookies, and bread. No. 75,887; Nov. 23; Gaz. vol. 148; p. 1082.
- Ward, W. S., Camp Point, Ill. Veterinary remedy. No. 74,751; Aug. 3; Gaz. vol. 145; p. 253.
- Ware, F., Frederick, Okla. Insect-extermiators. No. 73,352; Apr. 13; Gaz. vol. 141; p. 562.
- Warfield Pratt Howell Co., Des Moines, Sioux City, and Cedar Rapids, Iowa. Cheese. No. 73,606; May 4; Gaz. vol. 142; p. 284.
- Warner Chemical Co., Carteret, N. J. Chemical washing-powder. No. 75,238; Sept. 14; Gaz. vol. 146; p. 502.
- Warner & Co., W. R., Philadelphia, Pa. Granular effervescent salt for use as a hepatic stimulant, laxative, and diuretic. No. 75,492; Oct. 5; Gaz. vol. 147; p. 233.
- Warner, E. L., Evanston, Ill. Postage-stamp books and sheets. No. 72,297; Jan. 12; Gaz. vol. 138; p. 525.
- Warner, G., St. Louis, Mo. Hats and bonnets. No. 74,027; June 8; Gaz. vol. 143; p. 558.
- Warren Lubricant Company, Warren, Pa. Lubricating-greases. No. 73,203; Mar. 30; Gaz. vol. 140; p. 1203.
- Warren Paint Company, Warren, Ohio. House-paint, white lead, white zinc, and varnishes. No. 73,056; Mar. 9; Gaz. vol. 140; p. 504.
- Washburn Crosby Company, Minneapolis, Minn. Wheat-flour. No. 72,916; Mar. 2; Gaz. vol. 140; p. 251.
- Wassermann & Co. The Antigliissol Company Ltd. Lausanne, Lausanne, Switzerland. Compounds for brazing and welding metals. Nos. 75,631-2; Oct. 26; Gaz. vol. 147; p. 1032.
- Waterbury Chemical Company, Des Moines, Iowa. Medicines and poultices. No. 74,423; July 13; Gaz. vol. 144; p. 557.
- Waterloo Chemical Works, Waterloo, Iowa. Sweeping compounds. No. 72,850; Mar. 2; Gaz. vol. 140; p. 249.
- Waterloo Chemical Works, Waterloo, Iowa. Axle-grease and lubricating-oils. No. 74,107; June 15; Gaz. vol. 143; p. 861.
- Watson-Glasgow Hosiery Company, St. Louis, Mo. Certain clothing. No. 73,928; June 1; Gaz. vol. 143; p. 254.
- Waukesha Canning Co., Waukesha, Wis. Canned peas. Nos. 72,123-4; Jan. 5; Gaz. vol. 138; p. 252.
- Waukesha Canning Co., Waukesha, Wis. Canned peas and canned corn. No. 72,693; Feb. 9; Gaz. vol. 139; p. 459.
- Waukesha Canning Co., Waukesha, Wis. Canned peas, canned beans, and canned corn. No. 72,694; Feb. 9; Gaz. vol. 139; p. 459.
- Waukesha Canning Co., Waukesha, Wis. Canned peas, canned corn, and canned tomatoes. No. 72,695; Feb. 9; Gaz. vol. 139; p. 459.
- Waukesha Canning Co., Waukesha, Wis. Canned peas, corn, and tomatoes. No. 73,121; Mar. 16; Gaz. vol. 140; p. 752.
- Waukesha Canning Co., Waukesha, Wis. Canned peas. No. 75,493; Oct. 5; Gaz. vol. 147; p. 233.



*Alphabetical list of registrants of trade-marks—Continued.*

- Waukesha Canning Company, Waukesha, Wis. Canned vegetables. No. 73,876; May 25; Gaz. vol. 142; p. 1110.
- Wayne Manufacturing Company, St. Louis, Mo. Washing-machines and washboards. No. 75,175; Sept. 7; Gaz. vol. 146; p. 253.
- Wayne Manufacturing Company, St. Louis, Mo. Washing-machines. Nos. 75,176-7; Sept. 7; Gaz. vol. 146; p. 253.
- Wayne Manufacturing Company, St. Louis, Mo. Washboards. No. 75,197; Sept. 14; Gaz. vol. 146; p. 501.
- Wayne Paper Mills, Hartford City, Ind. Paper bags. No. 72,696; Feb. 9; Gaz. vol. 139; p. 459.
- Weander, A. G., Sioux City, Iowa. Seed-tester cups and supporting-frames therefor. No. 74,028; June 8; Gaz. vol. 143; p. 558.
- Weatherproof Manufacturing Company, St. Louis, Mo. Roofing and deadening felt, building and roofing papers. No. 75,720; Nov. 9; Gaz. vol. 148; p. 565.
- Weaver Organ & Piano Co., York, Pa. Pianos. Nos. 72,135-6; Jan. 5; Gaz. vol. 138; p. 252.
- Webber, C. E., Boston, Mass. Cloth, rubber, and leather boots and shoes. No. 72,298; Jan. 12; Gaz. vol. 138; p. 525.
- Webber, W. P., Lynn, Mass. Transferable patterns. No. 75,822; Nov. 16; Gaz. vol. 148; p. 829.
- Weber Coffee Company, A., Philadelphia, Pa. Coffee. No. 73,791; May 18; Gaz. vol. 142; p. 852.
- Weber, H. J., Washington, D. C. Polish. No. 73,075; Mar. 16; Gaz. vol. 140; p. 751.
- Weber and Heilbronner, New York, N. Y. Certain clothing. No. 75,950; Nov. 30; Gaz. vol. 148; p. 1340.
- Webster Company, North Attleboro, Mass. Certain precious-metal ware. No. 74,642; July 27; Gaz. vol. 144; p. 1086.
- Wedehase, F., Sebastopol, Cal. Certain foods. No. 72,509; Jan. 26; Gaz. vol. 138; p. 962.
- Weegar, J. A., Boston, Mass. Salve. No. 75,674; Nov. 2; Gaz. vol. 148; p. 275.
- Weightman, M. K., New York, N. Y. Emulsion. No. 72,529; Feb. 2; Gaz. vol. 139; p. 193.
- Weingartner, J., Boston, Mass. Floor-dressing. No. 74,215; June 22; Gaz. vol. 143; p. 1106.
- Weissman, B., New York, N. Y. Medicines to prevent venereal diseases. No. 73,987; June 8; Gaz. vol. 143; p. 557.
- Welch Motor Car Company, Pontiac, Mich. Automobiles. No. 74,993; Aug. 24; Gaz. vol. 145; p. 1018.
- Wellcome, H. S., London, England. Sodium para-aminophenylarsonates. No. 73,155; Mar. 23; Gaz. vol. 140; p. 997.
- Wellcome, H. S., London, England. Certain pharmaceutical preparations. No. 75,329; Sept. 21; Gaz. vol. 146; p. 716.
- Wellington, Sears & Co., Boston, Mass. Ducks and drills that have been waterproofed. No. 72,299; Jan. 12; Gaz. vol. 138; p. 525.
- Wells, E. S., Jersey City, N. J. Poisons for rats, mice, vermin, and insects. No. 72,851; Mar. 2; Gaz. vol. 140; p. 249.
- Wells Flour Milling Company, Wells, Minn. Wheat-flour. No. 74,619; July 27; Gaz. vol. 144; p. 1086.
- Wells Flour Milling Company, Wells, Minn. Wheat-flour. No. 76,221; Dec. 28; Gaz. vol. 149; p. 1115.
- Welsbach Company, Gloucester City, N. J. Gas-lamps and fixtures. No. 74,081; June 15; Gaz. vol. 143; p. 860.
- Wendling, G. X., San Francisco, Cal. Electric heaters. No. 72,111; Jan. 5; Gaz. vol. 138; p. 251.
- Werner & Company, S., Lima, Ohio. Cold-cream and face-powder. No. 74,580; July 20; Gaz. vol. 144; p. 815.
- Wertheimer Bros., New York, N. Y. Chiffon. No. 73,812; May 18; Gaz. vol. 142; p. 853.
- Wertheimer Bros., New York, N. Y. Sweaters, cardigan jackets, bathing-suits, &c. No. 74,029; June 8; Gaz. vol. 143; p. 559.
- Wesson Company, Jersey City, N. J., and Savannah, Ga. Refined corn-oil used as a food. No. 73,390; Apr. 13; Gaz. vol. 141; p. 563.
- West Side Brewery Co. Ltd., Detroit, Mich. Beer. No. 75,239; Sept. 14; Gaz. vol. 146; p. 502.
- Wester Bros., New York, N. Y. Pocket-knives, scissors, and razors. No. 72,465; Jan. 26; Gaz. vol. 138; p. 961.
- Wester Bros., New York, N. Y. Razors, scissors, shears, and table cutlery. No. 76,242; Dec. 28; Gaz. vol. 149; p. 1116.
- Western Agency Omega Watch Company, Chicago, Ill. Watches and watchcases. No. 73,749; May 18; Gaz. vol. 142; p. 851.
- Western Cartridge Co., East Alton, Ill. Targets. No. 76,222; Dec. 28; Gaz. vol. 149; p. 1116.
- Western Clock Mfg. Co., La Salle, Ill. Clocks and watches. No. 72,178; Jan. 5; Gaz. vol. 138; p. 253.
- Western Clock Mfg. Co., La Salle, Ill. Clocks and watches. No. 72,774; Feb. 16; Gaz. vol. 139; p. 727.
- Western Clock Mfg. Co., La Salle, Ill. Clocks and watches. No. 74,712; Aug. 3; Gaz. vol. 145; p. 252.
- Western Grocer Company, Marshalltown, Iowa. Rice. No. 72,095; Jan. 5; Gaz. vol. 138; p. 251.
- Western Grocer Company, Marshalltown, Iowa. Certain chemicals. No. 72,476; Jan. 26; Gaz. vol. 138; p. 961.
- Western Grocer Company, Marshalltown, Iowa, and St. Joseph, Mo. Certain foods. No. 72,775; Feb. 16; Gaz. vol. 139; p. 727.
- Western Grocer Company, Marshalltown, Iowa. Certain chemicals. No. 73,353; Apr. 13; Gaz. vol. 141; p. 562.
- Western Grocer Company, Marshalltown, Iowa. Carbonate of soda, laundry starch, lye, bluing, &c. No. 73,484; Apr. 20; Gaz. vol. 141; p. 863.
- Western Grocer Company, Marshalltown, Iowa. Carbonate of soda, laundry starch, lye, bluing, ammonia, and salt. No. 73,660; May 4; Gaz. vol. 142; p. 285.
- Western Grocer Company, Marshalltown, Iowa. Certain foods. No. 74,844; Aug. 10; Gaz. vol. 145; p. 509.
- Western Grocer Company, Marshalltown, Iowa. Certain foods. No. 75,198; Sept. 14; Gaz. vol. 146; p. 501.
- Western Grocer Company, Marshalltown, Iowa. Certain foods. Nos. 76,161-2; Dec. 21; Gaz. vol. 149; pp. 829-30.
- Western Grocer Company, Marshalltown and Mason City, Iowa. Certain named foods. No. 74,936; Aug. 17; Gaz. vol. 145; p. 761.
- Western Grocer Company, Marshalltown, Iowa, and St. Joseph, Mo. Canned, dried, and pickled fruits. No. 75,220; Sept. 14; Gaz. vol. 146; p. 502.
- Western Star Mill Company, Salina, Kans. Wheat-flour. No. 73,391; Apr. 13; Gaz. vol. 141; p. 563.
- Wheeler Condenser & Engineering Co., Carteret, N. J., and New York, N. Y. Jet and surface condensers. No. 74,030; June 8; Gaz. vol. 143; p. 559.
- Wheeler and Motter Mercantile Company. (See Tootle, Wheeler & Motter Mercantile Company, assignor.)
- Whitcomb & Paine Co., Holbrook and Boston, Mass. Men's and boys' leather boots and shoes. No. 73,750; May 18; Gaz. vol. 142; p. 851.
- Whitcomb & Paine Co., Holbrook and Boston, Mass. Boots and shoes made in whole or in part of leather. No. 75,387; Sept. 28; Gaz. vol. 146; p. 954.
- White, Haines Optical Company, Columbus, Ohio. Lenses for optical purposes. No. 75,479; Oct. 5; Gaz. vol. 147; p. 232.
- White Lily Manufacturing Company, Davenport, Iowa. Gasoline-engines. No. 74,302; June 29; Gaz. vol. 143; p. 1341.
- White Seal Bottling Co., Oklahoma, Okla. Non-alcoholic carbonated tonic beverage. No. 72,137; Jan. 5; Gaz. vol. 138; p. 252.
- White-Warner Co., Taunton, Mass. Stoves, ranges, and furnaces. No. 73,431; Apr. 20; Gaz. vol. 141; p. 862.
- Whiteside & Blank, Newark, N. J. Jewelry. No. 75,757; Nov. 9; Gaz. vol. 148; p. 566.
- Whitlock Coil Pipe Company, Elmwood, Conn. Bent metal pipe. No. 74,108; June 15; Gaz. vol. 143; p. 861.
- Whitman & Barnes Manufacturing Company, Akron, Ohio, and Chicago, Ill. Drills and drill-chucks. No. 72,991; Mar. 9; Gaz. vol. 140; p. 502.
- Whitman & Co., C., New York, N. Y. Mercerized cotton piece goods. No. 72,138; Jan. 5; Gaz. vol. 138; p. 252.
- Whitman & Co., C., New York, N. Y. Cotton piece goods. No. 72,139; Jan. 5; Gaz. vol. 138; p. 252.
- Whitney & Co., C. E., San Francisco, Cal. Table-salt. No. 72,510; Jan. 26; Gaz. vol. 138; p. 962.
- Whitney Sporting Goods Company, Denver, Colo. Fish-hook flies. No. 72,441; Jan. 26; Gaz. vol. 138; p. 960.
- Whittemore Brothers and Company, Cambridge, Mass. Leather-dressing. No. 74,937; Aug. 17; Gaz. vol. 145; p. 761.
- Whittemore Brothers and Company, Cambridge, Mass. Preparation for cleaning and renewing leather, &c. No. 76,061; Dec. 7; Gaz. vol. 149; p. 307.
- Whittemore, H. A., Boston, Mass. Certain fishing-tackle. No. 72,096; Jan. 5; Gaz. vol. 138; p. 251.
- Whittinghill, R. C., St. Joseph, Mo. Leather boots, leather shoes, and rubber shoes. No. 72,953; Mar. 2; Gaz. vol. 140; p. 252.
- Wiedeke & Co., G., Dayton, Ohio. Tube-expanders and tube-cutters. No. 72,954; Mar. 2; Gaz. vol. 140; p. 252.
- Wieland & Cie., Ulm, Germany. Sheet metal, uninsulated wire, metallic tubing, and other metals. No. 75,178; Sept. 7; Gaz. vol. 146; p. 253.
- Wilbur, J. W., Decatur, Ill. Soaps. No. 72,263; Jan. 12; Gaz. vol. 138; p. 524.
- Wilbur & Sons, H. O., Philadelphia, Pa. Chocolate. No. 72,813; Feb. 23; Gaz. vol. 139; p. 986.
- Wilkes Martin Wilkes Company, Camden, N. J., and New York, N. Y. Lampblack. No. 72,236; Jan. 12; Gaz. vol. 138; p. 523.
- Wilcox, H., Wakefield, B. I. Oyster-juice. No. 74,514; July 20; Gaz. vol. 144; p. 813.
- Wilentz, N., Perth Amboy, N. J. Smoking-tobacco. No. 73,249; Apr. 6; Gaz. vol. 141; p. 281.
- Wilentz, B., Perth Amboy, N. J. Smoking-tobacco. No. 74,191; June 22; Gaz. vol. 143; p. 1105.
- Wilhoit, E. M., Springfield, Mo. Illuminating-oil. No. 74,895; Aug. 17; Gaz. vol. 145; p. 760.
- Wilkinson, C. A., New York, N. Y. Candy, crystallized fruits, glacé fruits, and nuts. No. 74,938; Aug. 17; Gaz. vol. 145; p. 761.
- Will A. Watkin Company, Dallas, Tex. Pianos, player-pianos, pipe-organs, and reed-organs. No. 74,787; Aug. 10; Gaz. vol. 145; p. 508.
- Will & Baumer Company, Syracuse, N. Y. Candles. No. 72,890; Mar. 2; Gaz. vol. 140; p. 250.
- Will & Baumer Company, Syracuse, N. Y. Beeswax, both white and yellow. No. 75,494; Oct. 5; Gaz. vol. 147; p. 233.
- Will & Baumer Company, Syracuse, N. Y. Candles. No. 75,683; Oct. 26; Gaz. vol. 147; p. 1032.
- William Doerflinger Company, La Crosse, Wis. Hats. No. 74,896; Aug. 17; Gaz. vol. 145; p. 760.
- William H. Cole & Co. Ltd., London, England. Hair-pins, hooks and eyes, and nursery-pins. No. 72,643; Feb. 9; Gaz. vol. 139; p. 458.
- William H. Cole & Co. Ltd., London, England. Certain notions. No. 73,419; Apr. 20; Gaz. vol. 141; p. 861.
- William Hollins and Company, Limited, Mansfield, Radford, Nottingham, Bridgeton, and London, England, and Glasgow, Scotland. Certain clothing. No. 74,515; July 20; Gaz. vol. 144; p. 813.
- William Mann Company, Philadelphia, Pa. Press-copy books and papers. No. 73,792; May 18; Gaz. vol. 142; p. 852.
- William Sellers & Company Incorporated, Philadelphia, Pa. Injectors. No. 75,179; Sept. 7; Gaz. vol. 146; p. 253.

*Alphabetical list of registrants of trade-marks—Continued.*

- William Wolff & Co., Sacramento, Cal. Sparkling Burgundy type of wine. No. 72,776; Feb. 16; Gaz. vol. 139; p. 727.
- Williams, A. A., Wayland and Holliston, Mass. Leather boots and shoes. No. 73,503; Apr. 27; Gaz. vol. 141; p. 1157.
- Williams, J., Fort Worth, Tex. Certain clothing. No. 74,216; June 22; Gaz. vol. 143; p. 1106.
- Williams, J. C., Weed, N. Mex. Ter. Paints. No. 74,845; Aug. 10; Gaz. vol. 145; p. 509.
- Williams, R. H., Kansas City, Mo. Remedies for certain diseases. No. 73,076; Mar. 16; Gaz. vol. 140; p. 751.
- Williams Shoe Co., Cincinnati, Ohio. Footwear consisting in whole or in part of leather. No. 73,557; Apr. 27; Gaz. vol. 141; p. 1159.
- Williams, W. E., Evergreen Park, Ill. Confections. No. 75,590; Oct. 19; Gaz. vol. 147; p. 768.
- Williamson, C. B., Providence, R. I. Salves and ointments. No. 72,530; Feb. 2; Gaz. vol. 139; p. 193.
- Williamson & Dickie, Fort Worth, Tex., and New York, N. Y. Hats and leather gloves. No. 74,788; Aug. 10; Gaz. vol. 145; p. 508.
- Williamsons Concrete Ink Company, Frederick, Md. Ink. No. 75,463; Oct. 5; Gaz. vol. 147; p. 232.
- Williamsport Staple Company, Williamsport, Pa. Winkers, breeching, breast-collar tugs, and slide-loops. No. 75,548; Oct. 12; Gaz. vol. 147; p. 514.
- Willits, R. W., Alexis, Ill. Chemical preparation for removing carbon from cylinders. No. 72,210; Jan. 5; Gaz. vol. 138; p. 254.
- Wilson & Co., R. W., Grandin, Mo. Remedy for certain diseases of hogs and chickens. No. 75,066; Aug. 31; Gaz. vol. 145; p. 1246.
- Wilson Company, New York, N. Y. Hair-shampoo. No. 74,168; June 22; Gaz. vol. 143; p. 1104.
- Wimbush, T. H., Newark, N. J. Cake. No. 72,466; Jan. 26; Gaz. vol. 138; p. 961.
- Windell, F. D., Philadelphia, Pa. Game of cards. No. 73,168; Mar. 23; Gaz. vol. 140; p. 997.
- Wing, M. E., Detroit, Mich. Toy animal-figures. No. 74,713; Aug. 3; Gaz. vol. 145; p. 252.
- Wingate Chemical Co. Ltd., Montreal, Quebec, Canada. Effervescent saline laxative. No. 72,211; Jan. 5; Gaz. vol. 138; p. 254.
- Winn, G. L., Jersey City, N. J.; New York, N. Y., and Leominster Mass. Combs. No. 72,179; Jan. 5; Gaz. vol. 138; p. 253.
- Winters, A. J., Portland, Oreg. Fishing-tackle. No. 74,399; July 6; Gaz. vol. 144; p. 273.
- Witte, F., Rostock, Germany. Dietetic artificial food. No. 73,607; May 4; Gaz. vol. 142; p. 284.
- Witz, M. H., Baltimore, Md. Hats and caps. Nos. 72,644-5; Feb. 9; Gaz. vol. 139; p. 458.
- Wm. A. Rogers Limited, Toronto, Ontario, Canada, and Niagara Falls, N. Y. Metal-polish in paste form. No. 73,579; May 4; Gaz. vol. 142; p. 283.
- Wm A. Stickney Cigar Co., St. Louis, Mo. Cigars. No. 75,591; Oct. 19; Gaz. vol. 147; p. 768.
- Wm. B. Threapleton's Sons, Philadelphia, Pa. Hosiery. No. 74,489; July 13; Gaz. vol. 144; p. 559.
- Wm. H. McKnew Co., Washington, D. C. Certain clothing. No. 74,400; July 6; Gaz. vol. 144; p. 273.
- Wm. I. Keetch Knitting Company, Cleveland, Ohio. Certain named clothing. No. 74,916; Aug. 17; Gaz. vol. 145; p. 761.
- Wm. J. Oliver Manufacturing Co., Knoxville, Tenn. Mining-cars, contractors' dump-cars, spreader-cars, and ballast-cars. No. 73,169; Mar. 23; Gaz. vol. 140; p. 997.
- Wm. J. Oliver Manufacturing Co., Knoxville, Tenn. Certain machinery. No. 73,739; May 11; Gaz. vol. 142; p. 565.
- Wolf, G. L., Mercersburg, Pa. Cloth gloves. No. 72,737; Feb. 16; Gaz. vol. 139; p. 726.
- Wolf, K., Detroit, Mich. Medicines. No. 75,634; Oct. 26; Gaz. vol. 147; p. 1032.
- Wolf, W. A., Baltimore, Md. Pear-juice. No. 73,740; May 11; Gaz. vol. 142; p. 565.
- Wonalancet Company, Nashua, N. H. Carded cotton. No. 75,823; Nov. 16; Gaz. vol. 148; p. 829.
- Wood, A. M., Detroit, Mich. Bread. No. 74,004; June 8; Gaz. vol. 143; p. 558.
- Wood Chemical Company, Helena, Ark. Ointments. No. 74,674; July 27; Gaz. vol. 144; p. 1087.
- Wood & Co., L., Boston, Mass. Tea. No. 76,085; Dec. 14; Gaz. vol. 149; p. 597.
- Wood, J. B., Franklin, Ga. Remedy for chronic cough and consumption. No. 75,978; Nov. 30; Gaz. vol. 148; p. 1340.
- Wood-Milne, Limited, Preston, England. India-rubber heels, tips, and pads. No. 74,516; July 20; Gaz. vol. 144; p. 813.
- Woodbury Granite Company, Hardwick, Vt. Quarried granite. No. 73,656; May 4; Gaz. vol. 142; p. 285.
- Woodhull, Goodale & Bull, Syracuse, N. Y. Men's and young men's clothing, comprising coats, vests, and trousers. No. 74,789; Aug. 10; Gaz. vol. 145; p. 508.
- Woog, M., La Chaux-de-Fonds, Switzerland. Watches, watchcases, watch-movements, and watch-dials. No. 74,714; Aug. 3; Gaz. vol. 145; p. 252.
- Worcester Salt Company, Silver Springs and New York, N. Y. Compound table-salt. No. 74,109; June 15; Gaz. vol. 143; p. 861.
- Worthing, A. L., Camden, Me. Hair-tonic. No. 72,992; Mar. 9; Gaz. vol. 140; p. 502.
- Wright & Ditson, Jersey City, N. J. Golf-balls. No. 74,424; July 13; Gaz. vol. 144; p. 557.
- Wright's Indian Vegetable Pill Company, New York, N. Y. Liquid remedy for worms. No. 76,266; Dec. 28; Gaz. vol. 149; p. 1117.
- Wulfeck, W. R., Cincinnati, Ohio. Egg-preservative. No. 72,237; Jan. 12; Gaz. vol. 138; p. 523.
- Wülfig, Firm of J. A., Berlin Germany. Medicinal preparations containing iodine or its salts and albumen. No. 72,455; Jan. 26; Gaz. vol. 138; p. 960.
- Wunner'sche Bitumen-Werke Gesellschaft mit beschränkter Haftung, Unna, Germany. Chemical preparation for rendering cement, mortar, and the like waterproof. No. 74,581; July 20; Gaz. vol. 144; p. 815.
- Wyckoff, Seamans & Benedict, Iliou, N. Y. Type-writing machines. No. 72,306; Jan. 12; Gaz. vol. 138; p. 525.
- Wye & Wye, New York, N. Y. Sweater-coats, sweaters, knit jackets, and knit vests. No. 72,180; Jan. 5; Gaz. vol. 138; p. 253.
- Wyeth Chemical Co., New York, N. Y. Hair-tonic. No. 74,303; June 29; Gaz. vol. 143; p. 1341.
- Wyoming Shovel Works, Wyoming, Pa. Shovels. No. 76,223; Dec. 28; Gaz. vol. 149; p. 1116.
- Wysong Candy Company, Indianapolis, Ind. Chocolate-coated nuts and chocolate candies. No. 75,240; Sept. 14; Gaz. vol. 146; p. 502.
- X-Ray Stove Polish Co., New York, N. Y. Metal-polish. No. 74,401; July 6; Gaz. vol. 144; p. 273.
- Yale Brewing Co. Incorporated, New Haven, Conn. Beer. No. 72,814; Feb. 23; Gaz. vol. 139; p. 986.
- Yale & Towne Mfg. Co., Stamford, Conn. Builders' hardware and door-checks. No. 74,425; July 13; Gaz. vol. 144; p. 557.
- Yale & Towne Mfg. Co., Stamford, Conn., and New York, N. Y. Locks. No. 75,592; Oct. 19; Gaz. vol. 147; p. 768.
- Yankee Shoe Polish Mfg. Co., New York, N. Y. Shoe-polishes. No. 74,494; July 13; Gaz. vol. 144; p. 559.
- Yerdou, E. E., Fenton, Mich. Egg-crates. No. 74,169; June 22; Gaz. vol. 143; p. 1104.
- Yoas, H. B., Glendive, Mont. Medicated plasters. No. 73,741; May 11; Gaz. vol. 142; p. 565.
- Yonkers Brewery, Yonkers, N. Y. Extract of malt and hops. No. 72,112; Jan. 5; Gaz. vol. 138; p. 251.
- Yonkers Brewery, Yonkers, N. Y. Ale, beer, porter, and stout. No. 74,304; June 29; Gaz. vol. 143; p. 1341.
- York Silk Manufacturing Co., York, Pa., and New York, N. Y. Silk piece goods. No. 72,544; Feb. 2; Gaz. vol. 139; p. 194.
- Young & Bokemeyer, Baltimore, Md. Hair and scalp tonic. No. 73,845; May 25; Gaz. vol. 142; p. 1110.
- Young Bros., Inc., Seattle, Wash. Tea, blended coffee, flavoring extracts, and spices. No. 76,006; Dec. 7; Gaz. vol. 149; p. 305.
- Young, Smyth, Field Company, Philadelphia, Pa. Hosiery and ladies', men's, and children's knit undershirts and drawers. No. 73,156; Mar. 23; Gaz. vol. 140; p. 997.
- Young, Smyth, Field Company, Philadelphia, Pa. Ribbons of all kinds. Nos. 73,813-14; May 18; Gaz. vol. 142; p. 853.
- Young, Smyth, Field Company, Philadelphia, Pa. Embroideries and notions. No. 75,388; Sept. 28; Gaz. vol. 146; p. 954.
- Zeitlin & Weinstein, New York, N. Y. Turkish cigarettes. No. 73,657; May 4; Gaz. vol. 142; p. 285.
- Zenith Butter and Egg Co., New York, N. Y. Butter, eggs, and American full-cream cheese. No. 73,760; May 18; Gaz. vol. 142; p. 851.
- Zibell, J. A., New York, N. Y. Certain construction materials. No. 74,598; July 27; Gaz. vol. 144; p. 1085.
- Ziegler, J. S., Chicago, Ill. Certain food-flavors. No. 72,097; Jan. 5; Gaz. vol. 138; p. 251.
- Zink, J. A., Dayton, Ohio. Cigars. No. 75,593; Oct. 19; Gaz. vol. 147; p. 768.
- Zippel, A., Spokane, Wash. Imitation coffee. No. 74,790; Aug. 10; Gaz. vol. 145; p. 508.
- Zwingenberger, O. K., New York, N. Y. Castor-oil and cod-liver-oil tablets. No. 75,180; Sept. 7; Gaz. vol. 146; p. 253.





# ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

- A. Schreiber Brewing Co., Buffalo, N. Y. "Manru Lager." (For Beer.) No. 14,979; June 29; Gaz. vol. 143; p. 1343.
- A. Schreiber Brewing Company, Buffalo, N. Y. "Schreiber Beer." (For Beer.) No. 14,930; June 29; Gaz. vol. 143; p. 1342.
- Abrams, S. M., Richmond, Va. "Diploma." (For Chow-Chow.) No. 14,798; May 4; Gaz. vol. 142; p. 286.
- Adams, S. R., Bridgeport, Conn. "Possum Billie." (For Bread.) No. 14,882; June 8; Gaz. vol. 143; p. 560.
- Adamson, J. A., Philadelphia, Pa. "Acme Tape Package." (For Tapes.) No. 14,950; June 29; Gaz. vol. 143; p. 1342.
- Ahrens Bros., Wilmington, N. C. "Po-La-Staf." (For a Remedy for Galls, Sore Shoulders, Backs, &c., on Live Stock.) No. 14,847; May 25; Gaz. vol. 142; p. 1112.
- Albrecht, W., Boston, Mass. "Export Beer." (For Beer.) No. 14,993; June 29; Gaz. vol. 143; p. 1343.
- Albright, A. K., Lancaster, Pa. "Ungt. Pen-A-Derm Compound." (For Medicines for the Treatment of Skin Diseases.) No. 14,987; June 29; Gaz. vol. 143; p. 1343.
- Altred, G., Jacksonville, Fla. "Malto." (For a Non-Intoxicating Malt Beverage.) No. 14,708; Mar. 16; Gaz. vol. 140; p. 754.
- American Beverage Co., Atlanta, Ga., and St. Louis, Mo. "Root Beer." (For Root-Beer.) No. 14,779; Apr. 27; Gaz. vol. 141; p. 1160.
- American Chicle Co., New York, N. Y. "Adams' Spearmint Chewing Gum." (For Chewing-Gum.) Nos. 14,743-4; Apr. 6; Gaz. vol. 141; p. 284.
- American Lithographic Company, New York, N. Y. "Smoke Cigars." (For Cigars.) No. 14,603; Feb. 2; Gaz. vol. 139; p. 196.
- American Lithographic Company, New York, N. Y. "Cigarros Superiores." (For Cigars.) No. 14,791; May 4; Gaz. vol. 142; p. 286.
- American Lithographic Company, New York, N. Y. "Non Plus Ultra." (For Cigars.) No. 14,792; May 4; Gaz. vol. 142; p. 286.
- American Lithographic Company, New York, N. Y. "Non Plus Ultra." (For Cigars.) No. 14,820; May 18; Gaz. vol. 142; p. 854.
- American Lithographic Company, New York, N. Y. "Smoke Cigars." (For Cigars.) No. 14,835; May 25; Gaz. vol. 142; p. 1112.
- American Paperette Company, Albany, N. Y. "Artframe Stationery." (For Stationery.) No. 15,060; Sept. 7; Gaz. vol. 146; p. 254.
- American Steel Wool Mfg. Co., New York, N. Y. "Ideal." (For Steel Wool.) No. 14,621; Feb. 2; Gaz. vol. 139; p. 196.
- Andersen, S., New York, N. Y. "Evyin Colorito." (For Soap for Washing and Dyeing.) No. 14,788; Apr. 27; Gaz. vol. 141; p. 1160.
- Apex Fish Company, Anacortes, Wash. "Rex Brand Red Salmon." (For Salmon.) No. 15,072; Dec. 28; Gaz. vol. 149; p. 1118.
- Apollo Studios, New York, N. Y. "Apollo Studios' Metalography Homemaker's Set." (For Home-Workers' Sets for Art Metal-Work.) No. 14,874; June 1; Gaz. vol. 143; p. 256.
- Aseptic Products Company, New York and Long Island City, N. Y. "A. P. C." (For Plasters.) No. 14,984; June 29; Gaz. vol. 143; p. 1343.
- Asher and Weir, Los Angeles, Cal. "Fairly." (For a Polish.) No. 14,770; Apr. 20; Gaz. vol. 141; p. 864.
- Baer, H. C., New York, N. Y. "Rumatone." (For Medicinal Capsules for the Treatment of Rheumatism and Gout.) No. 14,769; Apr. 20; Gaz. vol. 141; p. 864.
- Bailey, F. S., New York, N. Y. "Savehair." (For Hair-Tonic.) No. 14,846; May 25; Gaz. vol. 142; p. 1112.
- Baker, A. E., Berwick, Pa. "Quippa." (For a Game.) No. 14,999; June 29; Gaz. vol. 143; p. 1343.
- Baltimore Chewing Gum Co., Baltimore, Md. "Goetze's Yerba-Santa." (For Pepsin Chewing-Gum.) No. 14,721; Mar. 23; Gaz. vol. 140; p. 999.
- Banner Varnish Company, Cleveland, Ohio. "Banner Varnishes." (For Varnishes.) No. 14,674; Feb. 23; Gaz. vol. 139; p. 987.
- Bannibr, C. R., New York, N. Y. "The Aero Game." (For a Game.) No. 14,622; Feb. 2; Gaz. vol. 139; p. 196.
- Barber, A. J., Utica, N. Y. "Pinola Oil." (For a Liniment.) No. 14,672; Feb. 23; Gaz. vol. 139; p. 987.
- Barber, A. J., Utica, N. Y. "Kornola." (For a Medicinal Preparation.) No. 14,734; Mar. 30; Gaz. vol. 140; p. 1205.
- Basile & Calandra, Inc., New York, N. Y. "Elephant Brand." (For Macaroni.) No. 14,608; Feb. 2; Gaz. vol. 139; p. 196.
- Belding Brothers & Company, New York, N. Y. "Dentysilk." (For Dental Floss Silk.) No. 14,973; June 29; Gaz. vol. 143; p. 1343.
- Bennett, C. P., Philadelphia, Pa. "Automatic French Polish." (For a Polish.) No. 14,586; Jan. 5; Gaz. vol. 138; p. 255.
- Bianchi, E. C. A., Los Angeles, Cal. "La Moza." (For Coffee.) No. 14,978; June 29; Gaz. vol. 143; p. 1343.
- Big Stone Canning Co., Bigstone, S. D. "Our Lake Brand." (For Canned Pumpkin.) No. 14,800; May 4; Gaz. vol. 142; p. 286.
- Big Stone Canning Co., Bigstone, S. D. "Dakota Brand Pumpkin." (For Canned Pumpkin.) No. 14,826; May 18; Gaz. vol. 142; p. 854.
- Blankenhaym & Nole's Distilleerderij, Rotterdam, Netherlands. "Royal Club." (For Schiedam Liqueur.) No. 14,596; Jan. 26; Gaz. vol. 138; p. 963.
- Blighton, F. H., San Anselmo, Cal. "Time Lock." (For Blended Coffee.) No. 14,881; June 8; Gaz. vol. 143; p. 560.
- Boeckel & Co., R. C., New York, N. Y. "Quality A." (For Candy.) No. 14,959; June 29; Gaz. vol. 143; p. 1342.
- Boener Bros., Lawrence, Kans. "Monogram." (For Cigars, Cheroots, Stogies, Cigarettes, Smoking and Chewing Tobacco.) No. 14,928; June 29; Gaz. vol. 143; p. 1342.
- Boener Bros., Lawrence, Kans. "Club House." (For Cigars, Cheroots, Cigarettes, Stogies, Smoking and Chewing Tobacco.) No. 14,929; June 29; Gaz. vol. 143; p. 1342.
- Bokert Springs Mineral Water Co., Chicago, Ill. "Bokert Water." (For Natural Mineral Spring Water.) No. 14,628; Feb. 9; Gaz. vol. 139; p. 460.
- Boonville Milling Company, Boonville, Ind. "Daniel Boone Flour." (For Flour.) No. 14,730; Mar. 30; Gaz. vol. 140; p. 1205.
- Boonville Milling Company, Boonville, Ind. "Ceres Flour." (For Flour.) No. 14,754; Apr. 13; Gaz. vol. 141; p. 564.
- Bossom, E. G., Boston, Mass. "Boro-Mint." (For an Antiseptic Solution.) No. 14,713; Mar. 16; Gaz. vol. 140; p. 754.
- Boxenbaum Company, Philadelphia, Pa. "The Boxenbaum Discovery." (For a Remedy for Epilepsy, Convulsions, Spasms, and Similar Diseases.) No. 14,618; Feb. 2; Gaz. vol. 139; p. 196.
- Brecht, C., Franklin, Pa. "Christian Brecht's Pure Beer." (For Beer.) No. 14,606; Feb. 2; Gaz. vol. 139; p. 196.
- Bromund, E. A., New York, N. Y. "Mother's-Ironing-Wax." (For Ironing-Wax Pads.) No. 14,804; May 4; Gaz. vol. 142; p. 286.
- Brooke, C. M., Brooklyn, N. Y. "Brooke's Finest Lemos Sweetened Lemon Juice." (For Sweetened Lemon-Juice.) No. 14,945; June 29; Gaz. vol. 143; p. 1342.
- Brooklyn Bottle Stopper Co., Brooklyn, N. Y. "Nevaleek." (For Bottle-Stoppers.) No. 14,760; Apr. 13; Gaz. vol. 141; p. 564.
- Bruguier, O. R., Newark, N. J. "Bruguier's Antiseptic Tooth Powder." (For Tooth-Powder.) No. 14,635; Feb. 9; Gaz. vol. 139; p. 460.
- Bruno, J. S., Guayama, Porto Rico. "Alcoholado Indiano." (For Liniments.) No. 14,915; June 22; Gaz. vol. 143; p. 1107.
- Bryant, M. K., Philadelphia, Pa. "Bryant's Marjoram Cream." (For a Medicinal Preparation.) No. 14,698; Mar. 9; Gaz. vol. 140; p. 505.
- Buckeye Cigar & Tob. Co., Canton, Ohio. "Red Brand." (For Cigars and Stogies.) No. 14,823; May 18; Gaz. vol. 142; p. 854.
- Burd Knitting Mills Co., Philadelphia, Pa. "The Kleen-Pheet Hose." (For Hosiery.) No. 14,873; June 1; Gaz. vol. 143; p. 256.
- Burton Bros. & Co., New York, N. Y. "Silk Stripe Poplin." (For Poplins.) No. 15,051; June 29; Gaz. vol. 143; p. 1344.
- C. B. Henschel Mfg. Co., Milwaukee, Wis. "Dan Patch." (For Cigars.) No. 15,000; June 29; Gaz. vol. 143; p. 1343.
- C. E. Nettle Packing Co., New York, N. Y. "Mayflower." (For Sliced Beef.) No. 14,631; Feb. 9; Gaz. vol. 139; p. 460.
- C. E. Nettle Packing Co., New York, N. Y. "Waldorf." (For Sliced Beef.) No. 14,632; Feb. 9; Gaz. vol. 139; p. 460.
- C. E. Nettle Packing Co., New York, N. Y. "Magnolia." (For Sliced Beef.) No. 14,633; Feb. 9; Gaz. vol. 139; p. 460.
- Campus, C., New York, N. Y. "Campus Cigarettes." (For Cigarettes.) No. 14,927; June 29; Gaz. vol. 143; p. 1342.
- Candy Bros. Mfg. Co., St. Louis, Mo. "Candys' Mint Lax." (For Laxative Tablets.) No. 14,871; June 1; Gaz. vol. 143; p. 256.
- Capitol Paint, Oil & Varnish Company, Washington, Pa. "Japan Lacquer." (For a Varnish or Wood-Finisher.) No. 15,069; Nov. 9; Gaz. vol. 148; p. 567.
- Car-Bo-Thymol Company, Camden, N. J. "Car-Bo-Thymol." (For a Liquid Antiseptic Compound.) No. 14,699; Mar. 9; Gaz. vol. 140; p. 505.
- Carlson, J., Wahoo, Nebr. "Lung Gas." (For a Medicine.) No. 14,684; Mar. 2; Gaz. vol. 140; p. 253.
- Carnot, M., Yonkers, N. Y. "Uneeda." (For a Remedy for Constipation, Biliousness, Sour Stomach, Foul Breath, and Sick Headache.) No. 14,955; June 29; Gaz. vol. 143; p. 1342.
- Carter, E. W., Cohoes, N. Y. "Carter's Dental Outfit." (For Toothache-Drops.) No. 14,700; Mar. 9; Gaz. vol. 140; p. 505.
- Ceylana Tea Company, New York, N. Y. "Indra-Tea." (For a Blend of Ceylon and India Tea.) No. 14,582; Jan. 5; Gaz. vol. 138; p. 255.
- Ceylana Tea Company, New York, N. Y. "Temple Garden Tea." (For Tea.) No. 14,966; June 29; Gaz. vol. 143; p. 1343.
- Chapman, J. M., New York, N. Y. "The Green Carton." (For Hawaiian Pineapple in Slices.) No. 14,665; Feb. 23; Gaz. vol. 139; p. 987.
- Charles E. Hires Company, Philadelphia, Pa. "Hires' Household Extract." (For Root-Beer Extract.) No. 14,694; Mar. 9; Gaz. vol. 140; p. 505.
- Chester Cigar Co., Bowling Green, Ohio. "The Chester." (For Cigars.) No. 14,660; Feb. 23; Gaz. vol. 139; p. 987.
- Chicago Medical Society Milk Commission, Chicago, Ill. "Chicago Medical Society Milk Commission." (For Certified Milk.) No. 14,932; June 29; Gaz. vol. 143; p. 1342.



*Alphabetical list of registrants of labels—Continued.*

- Christmann, C. L., Englewood, N. J. "Perfection Bed Cover." (For Bed Covers or Spreads.) No. 14,676; Feb. 23; Gaz. vol. 139; p. 987.  
Cincinnati Commercial Company, Cincinnati, Ohio. "Dudley Mint Chewing Gum." (For Mint Chewing-Gum.) No. 14,593; Jan. 12; Gaz. vol. 138; p. 526.
- Clifton Forge Ice & Bottling Works, Clifton Forge, Va. "Flag Rock." (For Ginger-Ale.) No. 14,707; Mar. 16; Gaz. vol. 140; p. 754.
- Colgate & Company, New York, N. Y. "Colgate's Rapid-Shave Powder." (For Soap Powder.) No. 14,787; Apr. 27; Gaz. vol. 141; p. 1160.
- Conroy Spice Company, Toledo, Ohio. "Conroy's Spices." (For Spices.) No. 14,947; June 29; Gaz. vol. 143; p. 1342.
- Courtaide, E., New York, N. Y. "Chantecler." (For Tonics.) No. 14,891; June 8; Gaz. vol. 143; p. 560.
- Craig Cigar Co., Bethesda, Ohio. "Hugher Neck." (For Cigars.) No. 14,747; Apr. 13; Gaz. vol. 141; p. 564.
- Crawford and Forman, New York, N. Y. "Hælan." (For a Liniment.) No. 14,652; Feb. 16; Gaz. vol. 139; p. 728.
- Creo-Balsamic Co., Asheville, N. C. "Wheeler's Creo-Balsamic Cough Elixir." (For a Medicine.) No. 14,709; Mar. 16; Gaz. vol. 140; p. 754.
- Crescent Cigar Co., Pittsburg, Pa. "Extra Quality Genuine Pittsburg Hand Made Spanish Seed Long Filler Stogies." (For Cigars.) No. 14,840; May 25; Gaz. vol. 142; p. 1112.
- Crowley, H. R., Philadelphia, Pa. "Crowley's Arbolineum." (For Tree-Spray Insecticide and Cattle-Wash.) No. 14,949; June 29; Gaz. vol. 143; p. 1342.
- Crystal, F. J., New York, N. Y. "Klean Kloth Hand Kerchiefs." (For Handkerchiefs.) No. 14,704; Mar. 9; Gaz. vol. 140; p. 505.
- Crystal, F. J., New York, N. Y. "The Squareddeal Men's Handkerchiefs." (For Handkerchiefs.) No. 14,921; June 22; Gaz. vol. 143; p. 1107.
- Darby Candy Co. of Baltimore City, Baltimore, Md. "The Darby Boy." (For Whipped-Cream Chocolates.) Nos. 14,885-90; June 8; Gaz. vol. 143; p. 560.
- Davis, J. B., Salt Lake City, Utah. "Qilo." (For Hair-Tonic.) No. 14,783; Apr. 27; Gaz. vol. 141; p. 1160.
- De Zeabault, J. L., Cleveland, Ohio. "St Patrick's Oil." (For Oil.) No. 14,655; Feb. 16; Gaz. vol. 139; p. 728.
- De Zeabault, J. L., Cleveland, Ohio. "J. B. Actress's Cold Cream." (For Cold-Cream.) No. 14,814; May 11; Gaz. vol. 142; p. 566.
- Dean-Lilly Coffee & Spice Co., Memphis, Tenn. "Lily Brand." (For Baking-Powder.) No. 14,869; June 1; Gaz. vol. 143; p. 256.
- Dean-Lilly Coffee & Spice Co., Memphis, Tenn. "Gold Mine." (For Blended Coffee.) No. 14,994; June 29; Gaz. vol. 143; p. 1343.
- Denman & Son, A. C., Redlands Junction, Cal. "Champion." (For Citrus Fruits.) No. 14,884; June 8; Gaz. vol. 143; p. 560.
- Dentyne Manufacturing Company, New York, N. Y. "Dentyne." (For Tooth-Powder.) No. 14,938; June 29; Gaz. vol. 143; p. 1342.
- Dillard, S. H., Athens, Ga. "Dillard's Elixir Pap-A-Couch-Ee." (For a Medicinal Elixir.) No. 14,844; May 25; Gaz. vol. 142; p. 1112.
- Dimoc, G. A., Kalamazoo, Mich. "Prestolax." (For Laxative Preparations.) No. 14,845; May 25; Gaz. vol. 142; p. 1112.
- Dix Manufacturing Company, Lewistown, Pa. "Life of Leather." (For Leather-Dressing.) No. 14,833; May 18; Gaz. vol. 142; p. 854.
- Dobbs, W. L., Atlanta and Kennesaw, Ga. "The General." (For Canned Peaches.) No. 14,598; Jan. 26; Gaz. vol. 138; p. 963.
- Dotting, G., New York, N. Y. "Batruda." (For Cigars.) No. 15,001; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Aviso." (For Cigars.) No. 15,002; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Candida." (For Cigars.) No. 15,003; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Bawak." (For Cigars.) No. 15,004; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Busita." (For Cigars.) No. 15,005; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Angela." (For Cigars.) No. 15,006; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Amrita." (For Cigars.) No. 15,007; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Diletto." (For Cigars.) No. 15,008; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Cypris." (For Cigars.) No. 15,009; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Bartas." (For Cigars.) No. 15,010; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Clo-Clo." (For Cigars.) No. 15,011; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Bedelia." (For Cigars.) No. 15,012; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Canna." (For Cigars.) No. 15,013; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Castona." (For Cigars.) No. 15,014; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Carissa." (For Cigars.) No. 15,015; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Curator." (For Cigars.) No. 15,016; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Creola." (For Cigars.) No. 15,017; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Atorpa." (For Cigars.) No. 15,018; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Amyla." (For Cigars.) No. 15,019; June 29; Gaz. vol. 143; p. 1343.
- Dotting, G., New York, N. Y. "Ballade." (For Cigars.) No. 15,020; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Clysmma." (For Cigars.) No. 15,021; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Bargelo." (For Cigars.) No. 15,022; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Bardo." (For Cigars.) No. 15,023; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Belona." (For Cigars.) No. 15,024; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Abnoba." (For Cigars.) No. 15,025; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Albita." (For Cigars.) No. 15,026; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Cariba." (For Cigars.) No. 15,027; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Bertalda." (For Cigars.) No. 15,028; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Cicero." (For Cigars.) No. 15,029; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Amora." (For Cigars.) No. 15,030; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Avalos." (For Cigars.) No. 15,031; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Adam." (For Cigars.) No. 15,032; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Arcadio." (For Cigars.) No. 15,033; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Adolar." (For Cigars.) No. 15,034; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Agathon." (For Cigars.) No. 15,035; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Cam." (For Cigars.) No. 15,036; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Anthos." (For Cigars.) No. 15,037; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Amorela." (For Cigars.) No. 15,038; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Aline." (For Cigars.) No. 15,039; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Blainde." (For Cigars.) No. 15,040; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Dixie." (For Cigars.) No. 15,041; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Beltran." (For Cigars.) No. 15,042; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Duncan." (For Cigars.) No. 15,043; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Danilo." (For Cigars.) No. 15,044; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Calluna." (For Cigars.) No. 15,045; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Avigia." (For Cigars.) No. 15,046; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Aries." (For Cigars.) No. 15,047; June 29; Gaz. vol. 143; p. 1344.
- Dotting, G., New York, N. Y. "Dinebra." (For Cigars.) No. 15,048; June 29; Gaz. vol. 143; p. 1344.
- Drazah Shamrock Co., Elizabeth, N. J. "Bridge-ets." (For Stuffed Dates.) No. 14,799; May 4; Gaz. vol. 142; p. 286.
- Dreelin Brothers, Chicago, Ill. "Rocky Mountains." (For Cigars.) No. 14,865; June 1; Gaz. vol. 143; p. 256.
- E. A. M. Co., New York, N. Y. "Cranberry & Fruit Relish." (For Meats, Game, and Poultry.) No. 14,935; June 29; Gaz. vol. 143; p. 1342.
- E. I. du Pont de Nemours Powder Company, Wilmington, Del. "Du Pont Black Sporting Powder." (For Loaded Shells.) No. 14,658; Feb. 16; Gaz. vol. 139; p. 728.
- Eagon, J. A., Batesville, Ohio. "Eagon's Veterinary Colic Remedy." (For Veterinary Colic Remedy.) No. 14,830; May 18; Gaz. vol. 142; p. 854.
- Earl, J. C., Montclair, N. J. "Earl's Antol." (For a Remedy for Alcoholism.) No. 14,667; Feb. 23; Gaz. vol. 139; p. 987.
- Earl Soap Works, Lincoln, Nebr. "Earl New Cleanser." (For a Cleaning Compound.) No. 14,716; Mar. 16; Gaz. vol. 140; p. 754.
- Ehrat, G., Chicago, Ill. "Allgauer Limburger Style E." (For Limburger Cheese.) No. 14,682; Mar. 2; Gaz. vol. 140; p. 253.
- El Original Cigar Co. Inc., Chicago, Ill. "First Treasurer." (For Cigars.) No. 14,624; Feb. 9; Gaz. vol. 139; p. 460.
- Ellerbe, A. C., Florence, S. C. "Ellerbe's Dandruffuge." (For Hair-Tonic.) No. 14,756; Apr. 13; Gaz. vol. 141; p. 564.
- Emanuel, S., New York, N. Y. "My Own Egyptian Cigarettes." (For Cigarettes.) No. 14,749; Apr. 13; Gaz. vol. 141; p. 564.
- Emerson Home Co., Boston, Mass. "Nerves." (For Nerve and Blood Tablets.) No. 14,584; Jan. 5; Gaz. vol. 138; p. 255.
- Ermold, E., New York, N. Y. "E. Ermold's Special Labeling Gum." (For Gum for Labeling Bottles.) No. 14,896; June 8; Gaz. vol. 143; p. 560.
- Evencott Chemical Laboratories, Portland, Oreg. "Santiseptic." (For a Lotion for the Skin.) No. 14,937; June 29; Gaz. vol. 143; p. 1342.
- Evens-Bloom Cigar Co., Hastings, Nebr. "Very Best." (For Cigars.) No. 14,923; June 29; Gaz. vol. 143; p. 1342.
- Farless, W. M., Henderson, Ky. "Crest." (For Flour.) No. 14,666; Feb. 23; Gaz. vol. 139; p. 987.
- Farrell & Company, Omaha, Nebr. "Tennessee Style Sorghum Flavored Syrup." (For a Syrup Composed of Corn-Syrup and Sorghum.) No. 14,750; Apr. 13; Gaz. vol. 141; p. 564.
- Feinstein, C., Cleveland, Ohio. "La Venero." (For Cigars.) No. 14,678; Mar. 2; Gaz. vol. 140; p. 253.



*Alphabetical list of registrants of labels—Continued.*

- Feist Gas Mantle Manufacturing Co., Cincinnati, Ohio. "Feist Gas Mantle." (For Incandescent Gas-Mantles.) No. 14,657; Feb. 16; Gaz. vol. 139; p. 728.
- Fisher, G. A., Port Clinton, Ohio. "Camp Perry." (For Cigars.) No. 14,926; June 29; Gaz. vol. 143; p. 1342.
- Fitzpatrick Bros., Chicago, Ill. "American Banner Soap." (For Soap.) No. 14,588; Jan. 5; Gaz. vol. 138; p. 255.
- Fitzpatrick Bros., Chicago, Ill. "Kitchen Kleenzer." (For Scouring-Powder.) No. 14,940; June 29; Gaz. vol. 143; p. 1342.
- Florence Manufacturing Company, Florence, Mass. "Pro-phylactic." (For Tooth-Brushes.) No. 14,816; May 11; Gaz. vol. 142; p. 566.
- Florence Manufacturing Company, Florence, Mass. "Keepclean Tooth Brush." (For Tooth-Brushes.) No. 14,906; June 15; Gaz. vol. 143; p. 862.
- Florida Havana Cigar Co., Pittsburg, Pa. "Golden Hour." (For Stogies.) No. 14,693; Mar. 9; Gaz. vol. 140; p. 505.
- Forhan, R. J., Denver, Colo. "US-MER-JA Forhan's." (For a Preparation for the Treatment of Pylorhea.) No. 14,757; Apr. 13; Gaz. vol. 141; p. 564.
- Frank W. Whitcher Co., Boston, Mass. "Velvet Rubber Heels." (For Rubber Heels.) No. 14,761; Apr. 13; Gaz. vol. 141; p. 564.
- Franklin Brewing Company, Columbus, Ohio. "Arch City Brew." (For Bottled Beer.) No. 14,952; June 29; Gaz. vol. 143; p. 1342.
- French Gloss Manufacturing Co., San Francisco, Cal. "French Gloss." (For a Preparation Used for Laundry Purposes.) No. 15,062; Sept. 14; Gaz. vol. 146; p. 504.
- Friedman Bros., New York, N. Y. "Trousers Specialists." (For Trousers.) No. 14,964; June 29; Gaz. vol. 143; p. 1343.
- Galveston Brewing Co., Galveston, Tex. "Malty." (For a Non-Intoxicating Malt Beverage.) No. 14,626; Feb. 9; Gaz. vol. 139; p. 460.
- Ganz & Co., C. C., Aurora, Ill. "Electric Face and Healing Cream." (For Face and Healing Cream.) No. 14,813; May 11; Gaz. vol. 142; p. 566.
- Ganz & Co., C. C., Aurora, Ill. "Electric Pile Remedy." (For Pile Remedy.) No. 14,829; May 18; Gaz. vol. 142; p. 854.
- Garcia & Bros., P., Chicago, Ill., and Tampa, Fla. "Amor y Zelo." (For Cigars.) No. 14,777; Apr. 27; Gaz. vol. 141; p. 1160.
- Gauthier, J. N. A., Haverhill, Mass. "J. N. A. Liniment." (For Liniment.) No. 14,710; Mar. 16; Gaz. vol. 140; p. 754.
- Gawurin, L., New York, N. Y. "Porter's Black Hand Bed Bug Killer." (For Insecticide.) No. 14,933; June 29; Gaz. vol. 143; p. 1343.
- Geo. Borgfeldt & Co., New York, N. Y. "Lily of the Valley Illusion." (For Perfumery.) No. 15,054; Aug. 24; Gaz. vol. 145; p. 1020.
- Geo. Borgfeldt & Co., New York, N. Y. "Rose Illusion." (For Perfumery.) No. 15,055; Aug. 24; Gaz. vol. 145; p. 1020.
- Geo. Borgfeldt & Co., New York, N. Y. "Violet Illusion." (For Perfumery.) No. 15,056; Aug. 24; Gaz. vol. 145; p. 1020.
- Geo. Borgfeldt & Co., New York, N. Y. "Birken-Wasser." (For Hair-Lotion.) No. 15,057; Aug. 24; Gaz. vol. 145; p. 1020.
- Geo. Borgfeldt & Co., New York, N. Y. "Birch-Hair-Water." (For Hair-Tonic.) No. 15,058; Aug. 24; Gaz. vol. 145; p. 1020.
- Geo. Borgfeldt & Co., New York, N. Y. "Narcisse Illusion." (For Perfumery.) No. 15,059; Aug. 31; Gaz. vol. 145; p. 1248.
- George Frost Company, Boston, Mass. "Boston Garter." (For Hose-Supporters.) No. 14,724; Mar. 23; Gaz. vol. 140; p. 999.
- Germania Chemical Co., not Inc., Chicago, Ill. "Crème Métamorphose." (For a French Cosmetic.) No. 14,654; Feb. 16; Gaz. vol. 139; p. 728.
- Goldberg, S. H., Chicago, Ill. "Neptune Brand Roofing." (For Roofing.) No. 14,776; Apr. 20; Gaz. vol. 141; p. 864.
- Golden, E. L., Bonneville, Pa. "J. A. C. Newcomer." (For Cigars.) No. 14,793; May 4; Gaz. vol. 142; p. 286.
- Gordon Bitters Co., Jersey City, N. J. "Father Gordon." (For Compound Gin.) No. 14,866; June 1; Gaz. vol. 143; p. 256.
- Graham, C. W., Wheeling, W. Va. "Graham's Star Corn Salve." (For Corn-Salve.) No. 14,985; June 29; Gaz. vol. 143; p. 1343.
- Granite Spring Water Co., New York, N. Y. "Granite Spring Water." (For Spring-Water.) No. 14,706; May 4; Gaz. vol. 142; p. 286.
- Grathwol, J. J. (See Watt and Grathwol.)
- Great Providence Oil Comp., Brooklyn, N. Y. "Star." (For Cotton-Seed Oil.) No. 14,610; Feb. 2; Gaz. vol. 139; p. 196.
- Grimm, W. H., Windsor borough, Pa. "Top Notcher Cigars." (For Cigars.) No. 14,924; June 29; Gaz. vol. 143; p. 1342.
- Grimm, W. H., Windsor borough, Pa. "Standard Rocks Cigars." (For Cigars.) No. 14,925; June 29; Gaz. vol. 143; p. 1342.
- Gruberg, M., New York, N. Y. "Morris Gruberg's Bread." (For Bread.) No. 14,883; June 8; Gaz. vol. 143; p. 560.
- Guile & Windnagle, Penn Yan, N. Y. "Lake Keuka Grapes." (For Grapes.) No. 14,934; June 29; Gaz. vol. 143; p. 1342.
- H. C. Schranck Co., Milwaukee, Wis. "Golf." (For Ginger-Ale.) No. 14,824; May 18; Gaz. vol. 142; p. 854.
- H. C. Schranck Company, Milwaukee, Wis. "Atlasbrew." (For Soda-Water.) No. 14,912; June 22; Gaz. vol. 143; p. 1107.
- H. L. Griesedick Distilling Company, St. Louis, Mo. "Big Lou." (For Blended Whisky.) No. 14,645; Feb. 16; Gaz. vol. 139; p. 728.
- H. W. Baker Linen Co., New York, N. Y. "Sampson Bath Towels." (For Bath-Towels.) No. 14,689; Mar. 2; Gaz. vol. 140; p. 253.
- Hall & Bass, Inc., Norfolk, Va. "Carolina." (For a Compound of Coffee and Chicory.) No. 14,648; Feb. 16; Gaz. vol. 139; p. 728.
- Harper Supply Company, Chicago, Ill. "The 'Billy Possum' Cigar." (For Cigars.) No. 14,778; Apr. 27; Gaz. vol. 141; p. 1160.
- Harper Supply Company, Chicago, Ill. "Billy Possum." (For Soap.) No. 14,786; Apr. 27; Gaz. vol. 141; p. 1160.
- Heller & Long, New York, N. Y. "National Brand Men's Handkerchiefs." (For Men's Handkerchiefs.) No. 14,725; Mar. 23; Gaz. vol. 140; p. 999.
- Heller & Long, New York, N. Y. "Columbia Brand Men's Handkerchiefs." (For Men's Handkerchiefs.) No. 14,726; Mar. 23; Gaz. vol. 140; p. 999.
- Hemingway's London Purple Company, Limited, Stratford, London, England. "Hemingway's 'London Purple.'" (For Drugs and Chemicals.) No. 14,733; Mar. 30; Gaz. vol. 140; p. 1205.
- Henry B. Gilpin Co., Baltimore, Md. "After the Bath." (For Toilet Powder.) No. 14,894; June 8; Gaz. vol. 143; p. 560.
- Henschel & Co., A. C., Chicago, Ill. "San Eliseo." (For Cigars.) No. 14,705; Mar. 16; Gaz. vol. 140; p. 754.
- Henschel Mfg. Co., C. B., Milwaukee, Wis. "La Pelata." (For Cigars.) No. 14,589; Jan. 12; Gaz. vol. 138; p. 526.
- Henschel Mfg. Co., C. B., Milwaukee, Wis. "Amora." (For Cigars.) No. 14,590; Jan. 12; Gaz. vol. 138; p. 526.
- Henschel Mfg. Co., C. B., Milwaukee, Wis. "The Commercial Club." (For Cigars.) No. 14,644; Feb. 16; Gaz. vol. 139; p. 728.
- Henschel Mfg. Co., C. B., Milwaukee, Wis. "La Dora." (For Cigars.) No. 14,745; Apr. 13; Gaz. vol. 141; p. 564.
- Henschel Mfg. Co., C. B., Milwaukee, Wis. "The Hermit." (For Cigars.) No. 14,746; Apr. 13; Gaz. vol. 141; p. 564.
- Herbert, L. F., Newark, N. J. "Marathons." (For Candy on Stick.) No. 14,842; May 25; Gaz. vol. 142; p. 1112.
- Hiss, E. A., Cleveland, Ohio. "Candi-Lax." (For Laxative Tablets.) No. 14,827; May 18; Gaz. vol. 142; p. 854.
- Hoag & Co., W. A., New York, N. Y. "Washezee." (For a Detergent.) No. 14,785; Apr. 27; Gaz. vol. 141; p. 1160.
- Holwadel, J., Cincinnati, Ohio. "Famous Roach, Ant and Water Bug Exterminator." (For a Bug-Exterminator.) No. 14,688; Mar. 2; Gaz. vol. 140; p. 253.
- Hoppenrath Cigar Co., Minneapolis, Minn. "The Radisson." (For Cigars.) No. 14,876; June 8; Gaz. vol. 143; p. 560.
- Huff & Son's, B. F., Bethesda, Ohio. "Dumont." (For Cigars.) No. 14,821; May 18; Gaz. vol. 142; p. 854.
- Humphries, S. W. (See McMahon and Humphries.)
- Hurwitz, A., Pittsburg, Pa. "Pioneer Cigar Stogies." (For Stogies.) No. 14,662; Feb. 23; Gaz. vol. 139; p. 987.
- Huyler's, New York, N. Y. "Heart." (For Chocolates.) No. 14,765; Apr. 20; Gaz. vol. 141; p. 864.
- Huyler's, New York, N. Y. "CO-ED." (For Nougat.) No. 14,766; Apr. 20; Gaz. vol. 141; p. 864.
- Hygienic Food Co., Battle Creek, Mich. "Mapl-Flour." (For Pancake-Flour.) No. 15,070; Nov. 30; Gaz. vol. 148; p. 1341.
- Hygienic Laboratory Company, Chicago, Ill. "Hyacinth." (For a Complexion and Massage Cream.) No. 14,686; Mar. 2; Gaz. vol. 140; p. 253.
- Independent Breweries Co., St. Louis, Mo. "Red Rose." (For Beer.) No. 14,592; Jan. 12; Gaz. vol. 138; p. 526.
- Indianapolis Brewing Co., Indianapolis, Ind. "Tonica." (For a Soft Drink Designated a Temperance Beverage.) No. 15,065; Sept. 28; Gaz. vol. 146; p. 956.
- Interwoven Stocking Company, New Brunswick, N. J. "Interwoven Toe and Heel." (For Hosiery.) Nos. 14,802-3; May 4; Gaz. vol. 142; p. 286.
- Irondequoit Fruit Juice Co., Irondequoit, N. Y. "Iron-de-quoit Grape Juice Unfermented." (For Unfermented Grape-Juice.) No. 14,647; Feb. 16; Gaz. vol. 139; p. 728.
- J. Weller Co., Cincinnati, Ohio. "Weller's." (For Tomato Catsup.) No. 15,049; June 29; Gaz. vol. 143; p. 1344.
- J. H. Teats' Sons, Williamson, N. Y. "Crawford." (For Peaches.) No. 14,751; Apr. 13; Gaz. vol. 141; p. 564.
- Jack Introduction Co., Chicago, Ill. "Jack Corn Plaster." (For Corn-Plasters.) No. 14,916; June 22; Gaz. vol. 143; p. 1107.
- Jacobs, K. H., Windsor, Pa. "Fussy." (For Cigars.) No. 14,691; Mar. 9; Gaz. vol. 140; p. 505.
- Jacobs, K. H., Windsor borough, Pa. "Blue Fox." (For Cigars.) No. 14,879; June 8; Gaz. vol. 143; p. 560.
- Jacobson, S., New York, N. Y. "Farva." (For Refined Coconut-Oil.) No. 14,767; Apr. 20; Gaz. vol. 141; p. 864.
- James A. Houston Company, Boston, Mass. "Houston's One-Process." (For Wash-Dresses.) No. 14,851; May 25; Gaz. vol. 142; p. 1112.
- James A. Houston Company, Boston, Mass. "Houston's Paris-American Undermuslins." (For Muslin Underwear.) No. 14,853; May 25; Gaz. vol. 142; p. 1112.
- James A. Houston Company, Boston, Mass. "Boscobel Brand Hosiery." (For Hosiery.) No. 14,854; May 25; Gaz. vol. 142; p. 1112.
- James S. Kirk & Company, Chicago, Ill. "Flake White Soap." (For Laundry Soap.) No. 14,600; Jan. 26; Gaz. vol. 138; p. 963.
- Jardzewski, I., Toledo, Ohio. "Golden Bath Salve." (For a Salve.) No. 14,671; Feb. 23; Gaz. vol. 139; p. 987.
- Jarvis, H. C., Baltimore, Md. "Dr. Jarvis' Biliary & Bowel Bullets." (For a Remedy for Biliary and Bowel Complaints.) No. 14,988; June 29; Gaz. vol. 143; p. 1343.
- Jenkins, T. B., Sumter, S. C. "Bright's Quick Acting Metal Polish." (For Metal-Polish.) No. 14,898; June 8; Gaz. vol. 143; p. 560.
- Jenson & Company, E., Chicago, Ill. "Speedy Root." (For a Liniment.) No. 14,585; Jan. 5; Gaz. vol. 138; p. 255.
- Kendallville Manufacturing Company, Kendallville, Ind. "Savers." (For Cotton Gloves.) No. 14,639; Feb. 9; Gaz. vol. 139; p. 460.
- Keyer, L. W., Dayton, Ohio. "San Vito." (For Cigars.) No. 14,822; May 18; Gaz. vol. 142; p. 854.



*Alphabetical list of registrants of labels—Continued.*

- Kirkland & Co., E. E., Binghamton, N. Y. "The Angelus." (For Cigars.) No. 14,763; Apr. 20; Gaz. vol. 141; p. 864.
- Koenen, J., Jr., Milwaukee, Wis. "Soda-Lithia." (For Natural Spring-Water.) No. 14,903; June 15; Gaz. vol. 143; p. 862.
- Korsmeyer Co., Lincoln, Nebr. "Auto Special Dry Battery." (For Batteries.) No. 14,818; May 11; Gaz. vol. 142; p. 566.
- Korsmeyer Co., Lincoln, Nebr. "Lincoln Dry Battery." (For Batteries.) No. 14,819; May 11; Gaz. vol. 142; p. 566.
- Kubias, J. C., Redlands, Cal. "Bohemian Club Brand California Ripe Olives." (For Olives.) No. 14,811; May 11; Gaz. vol. 142; p. 566.
- Kulman, O. S., Savannah, Ga. "Strong-Nek." (For Fruit-Jars.) No. 14,817; May 11; Gaz. vol. 142; p. 566.
- Kurth Company, Columbus, Wis. "Columbia." (For Beer.) No. 14,955; June 29; Gaz. vol. 143; p. 1342.
- L. H. Beals & Son Co., Westfield, Mass. "Zioliite Raywhite Whip." (For Whips.) No. 14,962; June 29; Gaz. vol. 143; p. 1342.
- L. H. Beals & Son Co., Westfield, Mass. "Electrolis." (For Whips.) No. 14,963; June 29; Gaz. vol. 143; p. 1342.
- La Tourette, P., New York, N. Y. "Airship Brand Aeroplane Motor Oil." (For Lubricating-Oil.) No. 14,722; Mar. 23; Gaz. vol. 140; p. 999.
- Lafferty, J., Philadelphia, Pa. "Rocktown Old Special Rye Whiskey Blend." (For Blended Whisky.) No. 14,729; Mar. 30; Gaz. vol. 140; p. 1205.
- Lang Packing Co., New York, N. Y. "Mayflower Fresh Pork Sausage." (For Pork Sausages.) No. 14,681; Mar. 2; Gaz. vol. 140; p. 253.
- Lang Packing Co., New York, N. Y. "Mayflower Ham." (For Ham.) No. 15,052; Aug. 24; Gaz. vol. 145; p. 1020.
- Lang Packing Co., New York, N. Y. "Mayflower Fancy Breakfast Bacon." (For Bacon.) No. 15,053; Aug. 24; Gaz. vol. 145; p. 1020.
- Larcieri, G., Philadelphia, Pa. "Sun-Flower Medicine." (For a Medicine.) No. 14,669; Feb. 23; Gaz. vol. 139; p. 987.
- Levenson & Zenitz, Baltimore, Md. "L & Z Furniture Polish." (For Furniture-Polish.) No. 14,738; Mar. 30; Gaz. vol. 140; p. 1205.
- Levy, G. S., Union, Ore. "Levy's Oregon Grape Compound." (For a Medicine.) No. 15,073; Dec. 28; Gaz. vol. 149; p. 1119.
- Levy, I. P., Dallas, Tex. "Praetorian." (For Cigars, Cheroots, Cigarettes, and Smoking-Tobacco.) No. 14,728; Mar. 30; Gaz. vol. 140; p. 1205.
- Liberman, J., Jersey City, N. J. "Liberty." (For Brooms.) No. 14,659; Feb. 16; Gaz. vol. 139; p. 728.
- Limoneira Company, Santa Paula, Cal. "The Lemons That Keep." (For Lemons.) No. 14,982; June 29; Gaz. vol. 143; p. 1343.
- Llotta, M. A., New York, N. Y. "Llotta's Eubelline." (For Medicinal Preparation for the Hair.) No. 14,712; Mar. 16; Gaz. vol. 140; p. 754.
- Lippitt, T. P., San Juan, Porto Rico, and New York, N. Y. "Finca 'San Just.'" (For Fruit.) No. 14,953; June 29; Gaz. vol. 143; p. 1342.
- Lipshitz Bros., New York, N. Y. "The Brilliant Shoe Dressing." (For a Dressing for Ladies' and Children's Shoes.) No. 14,702; Mar. 9; Gaz. vol. 140; p. 505.
- Loeser Bros., Sauk City, Wis. "Sauk Pony." (For Cigars.) No. 14,807; May 11; Gaz. vol. 142; p. 566.
- Lubs, C. W., Arcadia, Wis. "Black Beauty Shoe Polish." (For Shoe-Polish.) No. 14,587; Jan. 5; Gaz. vol. 138; p. 255.
- M. Shaughnessy Distilling Co., St. Louis, Mo. "Shaughnessy's Special Blended Whiskey." (For Blended Whisky.) No. 15,067; Nov. 9; Gaz. vol. 148; p. 567.
- M. G. Scoville Sons Co., Ogden, Utah. "Nycelyte." (For Brooms.) No. 14,970; June 29; Gaz. vol. 143; p. 1343.
- M. G. Scoville Sons Co., Ogden, Utah. "Rytelyte." (For Brooms.) No. 14,971; June 29; Gaz. vol. 143; p. 1343.
- Madden, J. F., Toledo, Ohio. "Pepsenoids." (For Medicines in Tablet Form.) No. 14,870; June 1; Gaz. vol. 143; p. 256.
- Mann Carpet Cleaning Co., Indianapolis, Ind. "Puro-Clean-O." (For Cleaning Compound.) No. 14,849; May 25; Gaz. vol. 142; p. 1112.
- Marblehead Lime Company, Chicago, Ill. "Hydrated Lime Crown Brand." (For Hydrated Lime.) No. 14,961; June 29; Gaz. vol. 143; p. 1342.
- Marblehead Lime Company, Chicago, Ill. "Marble Head Lime Crown Brand." (For White Lime.) No. 14,977; June 29; Gaz. vol. 143; p. 1343.
- Mathewson, E. C., New York, N. Y. "Glendair." (For Teas.) No. 14,664; Feb. 23; Gaz. vol. 139; p. 987.
- Mazawattee Tea Company, London, England. "The 'Oxen Waggon.'" (For Tea.) No. 14,795; May 4; Gaz. vol. 142; p. 286.
- Mazawattee Tea Company, London, England. "Old English Society." (For Tea.) No. 15,064; Sept. 21; Gaz. vol. 146; p. 718.
- McCleer, L. N., Gregory, Mich. "Napanee Foot Powder." (For Foot-Powder.) No. 14,701; Mar. 9; Gaz. vol. 140; p. 505.
- McClenaghan, W. W., New York, N. Y. "Digestal." (For a Medical Compound.) No. 14,828; May 18; Gaz. vol. 142; p. 854.
- McLoughlin Brothers, New York, N. Y. "Phoebe Snow." (For Games.) No. 14,920; June 22; Gaz. vol. 143; p. 1107.
- McMahon, J., and S. W. Humphries, Philadelphia, Pa. "As You Like It." (For Grape-Jelly.) No. 14,731; Mar. 30; Gaz. vol. 140; p. 1205.
- Means & Thacher, Boston, Mass. "Atlantic Coast House Paint." (For House-Paints.) No. 14,832; May 18; Gaz. vol. 142; p. 854.
- Medenbach, H., Baltimore, Md. "Sans Pareil." (For Savory.) No. 14,683; Mar. 2; Gaz. vol. 140; p. 253.
- Mellinger, G. W., Cleveland, Ohio. "The Great National Catarrh Remedy." (For Medicine.) No. 14,594; Jan. 12; Gaz. vol. 138; p. 526.
- Mendez & Gomez, New York, N. Y. "Valdemoro." (For Cigars.) No. 14,718; Mar. 23; Gaz. vol. 140; p. 999.
- Messer Gum Co., Pittsburg, Pa. "Charcoallets." (For a Throat-Ease.) No. 14,670; Feb. 23; Gaz. vol. 139; p. 987.
- Messer, J. L., Pittsburg, Pa. "Messer's Charcoal Gum." (For Chewing-Gum.) No. 14,843; May 25; Gaz. vol. 142; p. 1112.
- Metcalf & Co., H., Los Angeles, Cal. "Transparent Glove and Cloth Cleaner." (For a Glove and Cloth Cleaner.) No. 14,872; June 1; Gaz. vol. 143; p. 256.
- Meyer, C. L., Pittsburg, Pa. "Keystone Garter." (For Men's Garters.) No. 14,656; Feb. 16; Gaz. vol. 139; p. 728.
- Meyer, H. J., Pittsburg, Pa. "Meyer's Non-Blisther Specific." (For Liniment.) No. 14,948; June 29; Gaz. vol. 143; p. 1342.
- Meyrick, B. B., Jefferson county, Ky. "Rose Leaf For Complexion." (For a Compressed Powder for the Complexion.) No. 14,614; Feb. 2; Gaz. vol. 139; p. 196.
- Miller, E., New York, N. Y. "Neo-Grease." (For a Grease-Paint.) No. 14,897; June 8; Gaz. vol. 143; p. 560.
- Miller, E. L., Canton, Ohio. "Miller's Dropsy Remedy." (For a Proprietary Medicine.) No. 14,986; June 29; Gaz. vol. 143; p. 1343.
- Miller, M., Cincinnati, Ohio. "Prescription No. 25 The Great Cough Medicine." (For a Cough Medicine.) No. 14,992; June 29; Gaz. vol. 143; p. 1343.
- Milne, H., New York, N. Y. "Milne's Lavatone Liquid Soap." (For Antiseptic Liquid Soap.) No. 14,616; Feb. 2; Gaz. vol. 139; p. 196.
- Mitchell, D. C., Gasport, N. Y. "Slide Easy." (For Neckties.) No. 14,951; June 29; Gaz. vol. 143; p. 1342.
- Moehle Lithographic Co., New York and Brooklyn, N. Y. "Josh Giddings." (For Cigars.) No. 14,661; Feb. 23; Gaz. vol. 139; p. 987.
- Moehle Lithographic Co., New York and Brooklyn, N. Y. "Tampanita." (For Cigars.) No. 14,679; Mar. 2; Gaz. vol. 140; p. 253.
- Moehle Lithographic Co., New York and Brooklyn, N. Y. "El Converso." (For Cigars.) No. 14,692; Mar. 9; Gaz. vol. 140; p. 505.
- Moehle Lithographic Co., New York and Brooklyn, N. Y. "Union Favorite." (For Cigars.) No. 14,706; Mar. 16; Gaz. vol. 140; p. 754.
- Montague, W. R., La Crosse, Wis. "Easter Confections." (For Confections.) No. 14,780; Apr. 27; Gaz. vol. 141; p. 1160.
- Mother's Macaroni Co., Minneapolis, Minn. "Mother's Macaroni." (For Macaroni.) No. 14,801; May 4; Gaz. vol. 142; p. 286.
- Mullen Brewing Co., Chicago, Ill. "Mullen's." (For Malt Extract.) No. 14,719; Mar. 23; Gaz. vol. 140; p. 999.
- Munger Brothers Company, Phoenix, Ariz. Ter. "Olivette Brand Olive Oil." (For Pure Olive-Oil.) No. 14,609; Feb. 2; Gaz. vol. 139; p. 196.
- Musicians' Supply Company, Boston, Mass. "De Luxe." (For Violin-Rosin.) No. 14,997; June 29; Gaz. vol. 143; p. 1343.
- Myers, C. F., Brentwood, Md. "German-American Herb Compound." (For a Proprietary Medicine.) No. 14,634; Feb. 9; Gaz. vol. 139; p. 460.
- National Candy Company, Jersey City, N. J., and St. Louis, Mo. "Giggles." (For Popcorn.) No. 14,650; Feb. 16; Gaz. vol. 139; p. 728.
- Natural Food Company, Niagara Falls, N. Y. "Chocolate Wheat Kernels." (For a Cereal Food Product.) No. 14,812; May 11; Gaz. vol. 142; p. 566.
- Nelson, A., New York, N. Y. "Caperon." (For a Shampoo, Toilet Article, and Scalp Remedy.) No. 14,784; Apr. 27; Gaz. vol. 141; p. 1160.
- New England Laboratory Company, Lynn, Mass. "Aleppo Cold Cream." (For Cold-Cream.) No. 14,613; Feb. 2; Gaz. vol. 139; p. 196.
- New York Baking Powder Co., New York, N. Y. "Pure Grape." (For Baking-Powder.) No. 14,913; June 22; Gaz. vol. 143; p. 1107.
- Newark Packing Co., Newark, N. J. "Astor Sliced Beef." (For Jar-Beef.) No. 14,720; Mar. 23; Gaz. vol. 140; p. 999.
- Northern Maine Packing Co., Corinna, Me., and New York, N. Y. "Pride of Maine." (For Sugar-Corn.) No. 14,825; May 18; Gaz. vol. 142; p. 854.
- Noxall Tray Co., Rochester, N. Y. "Noxall." (For Trays for Traveling-Bags.) No. 14,723; Mar. 23; Gaz. vol. 140; p. 999.
- O'Brien, J. F., New York, N. Y. "Dicks Blue Diamond Kalsomine." (For Kalsomine.) No. 14,636; Feb. 9; Gaz. vol. 139; p. 460.
- O. L. Gregory Vinegar Co., Tonawanda, N. Y. "Albion Old Orchard." (For Apple-Vinegar.) No. 14,867; June 1; Gaz. vol. 143; p. 256.
- Oakland Brewing & Malting Co., Oakland, Cal. "Blue and Gold." (For Lager-Beer.) No. 14,794; May 4; Gaz. vol. 142; p. 286.
- Opolax Chemical Company, Binghamton, N. Y. "Opolax Furniture Polish and Veneering Dressing." (For Furniture-Polish and Veneering-Dressing.) No. 14,739; Mar. 30; Gaz. vol. 140; p. 1205.
- Oxford Linen Mills, North Brookfield, Mass. "Oxbrook Towels." (For Towels.) No. 14,727; Mar. 23; Gaz. vol. 140; p. 999.
- P. C. Tomson & Co., Philadelphia, Pa. "Royal Brand Cleanser." (For Cleansing Preparation.) No. 14,989; June 29; Gaz. vol. 143; p. 1343.
- Pacific Mills, Lawrence and Boston, Mass. "Draper Serpentine Crêpe." (For Crêpe Cloth Intended for Drapery and Upholstery Uses.) No. 14,595; Jan. 12; Gaz. vol. 138; p. 526.
- Page, T., Albion, N. Y. "Royal Kitchen Brand Page Tomato Sauce." (For Tomato Sauce.) No. 14,797; May 4; Gaz. vol. 142; p. 286.
- Pang, K. F., New York, N. Y. "Pang's Original Chinese Cigarettes." (For Cigarettes.) No. 15,066; Oct. 5; Gaz. vol. 147; p. 234.
- Paul Bros. Medicine Co., Alton, Ill. "Paul Bros." (For Liver-Pills.) No. 14,967; June 29; Gaz. vol. 143; p. 1343.
- Pelley, W. D., Fulton, N. Y. "Pathfinder." (For Toilet-Paper.) No. 14,991; June 29; Gaz. vol. 143; p. 1343.
- Peters Manufacturing Co., Boston, Mass. "Tairmenda." (For Mending-Plaster.) No. 14,772; Apr. 20; Gaz. vol. 141; p. 864.
- Pfau, C. A., Washington, D. C. "Betsy Ross." (For Candy.) No. 14,597; Jan. 26; Gaz. vol. 138; p. 963.



*Alphabetical list of registrants of labels—Continued.*

- Philadelphia General Manufacturing Co., Philadelphia, Pa. "The Unique Novelty Photographic Printing Outfit." (For Photographic-Printing Outfits.) No. 14,834; May 18; Gaz. vol. 142; p. 854.
- Phillips, H. D., New York, N. Y. "Arrow Brand Handkerchiefs." (For Handkerchiefs.) No. 14,850; May 25; Gaz. vol. 142; p. 1112.
- Phillips, M. A., Rouses Point, N. Y. "Phillips's Celery Sauce." (For Celery Sauce.) No. 14,781; Apr. 27; Gaz. vol. 141; p. 1160.
- Pirkey, M. M., National City, Cal. "The Big Stick Cigar." (For Cigars.) No. 14,910; June 22; Gaz. vol. 143; p. 1107.
- Pollak, W., Sr., Cleveland, Ohio. "Progress Stogies." (For Stogies.) No. 14,625; Feb. 9; Gaz. vol. 139; p. 460.
- Porter Screen Manufacturing Company, Burlington, Vt. "Porter Weather-Proof Screens." (For Screens.) No. 14,643; Feb. 9; Gaz. vol. 139; p. 460.
- Portland Dental Mfg. Co., Portland, Me. "Glycoline Tooth Paste." (For a Tooth-Paste.) No. 14,615; Feb. 2; Gaz. vol. 139; p. 196.
- Powell, W. R., Fort Smith, Ark. "Fenole." (For Insect-Destroyer and Disinfectant.) No. 14,619; Feb. 2; Gaz. vol. 139; p. 196.
- Preston, G. A., Lexington, Mich. "Steamed Rye Flakes." (For Cereal Food.) No. 14,946; June 29; Gaz. vol. 143; p. 1342.
- Producer to Consumer Hosiery Co., Philadelphia, Pa. "Solid Comfort Hosiery." (For Hosiery.) No. 15,050; June 29; Gaz. vol. 143; p. 1344.
- Pustet & Co., F., Cincinnati, Ohio. "Liturgical Brand." (For Beeswax Altar-Candles.) No. 14,956; June 29; Gaz. vol. 143; p. 1342.
- Quaker City Rubber Co., Philadelphia, Pa. "Daniel's Special P. P. P. Ring Packing." (For Rod-Packing.) No. 14,805; May 4; Gaz. vol. 142; p. 286.
- Quaker City Rubber Co., Philadelphia, Pa. "Daniel's Regular P. P. P. Ring Packing." (For Rod-Packing.) No. 14,806; May 4; Gaz. vol. 142; p. 286.
- Rawlings, B. M., Washington, D. C. "Rose-Mint Antiseptic Tooth Powder." (For Tooth-Powder.) No. 14,714; Mar. 16; Gaz. vol. 140; p. 754.
- Rawlings, B. M., Washington, D. C. "Rose-Mint Medicated Talcum Powder." (For Talcum Powder.) No. 14,715; Mar. 16; Gaz. vol. 140; p. 754.
- Reinkendorff, E. A., Canton, Ohio. "Antiseptine Toilet Soap." (For Toilet Soap.) No. 14,990; June 29; Gaz. vol. 143; p. 1343.
- Rey, R., Tampa, Fla. "Mi Rey." (For Cigars.) No. 14,591; Jan. 12; Gaz. vol. 138; p. 526.
- Reynolds, J. N., Los Angeles, Cal. "Billy Possum Puzzle." (For a Puzzle.) No. 14,775; Apr. 20; Gaz. vol. 141; p. 864.
- Rhineland Paper Company, Rhineland, Wis. "King William Waterproof Fibre." (For Paper.) No. 14,907; June 15; Gaz. vol. 143; p. 862.
- Rich & Co., N. J., Cleveland, Ohio. "The 'Ri-Co' Muffler." (For Mufflers.) No. 14,909; June 15; Gaz. vol. 143; p. 862.
- Richardson, M. H., New York, N. Y. "Caricatures De Bois Designed By 'Bourdon.'" (For Caricature Figures.) No. 14,703; Mar. 9; Gaz. vol. 140; p. 505.
- Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Cherokee." (For Hosiery.) No. 14,855; May 25; Gaz. vol. 142; p. 1112.
- Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Hardwear." (For Hosiery.) No. 14,856; May 25; Gaz. vol. 142; p. 1112.
- Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Wizard." (For Hosiery.) No. 14,857; May 25; Gaz. vol. 142; p. 1112.
- Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Hiawatha." (For Hosiery.) No. 14,858; May 25; Gaz. vol. 142; p. 1112.
- Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Pocahontas." (For Hosiery.) No. 14,859; May 25; Gaz. vol. 142; p. 1112.
- Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Hop-Scotch." (For Hosiery.) No. 14,860; May 25; Gaz. vol. 142; p. 1112.
- Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Tomahawk." (For Hosiery.) No. 14,861; May 25; Gaz. vol. 142; p. 1112.
- Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Priscilla." (For Hosiery.) No. 14,862; May 25; Gaz. vol. 142; p. 1112.
- Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Bad Boy." (For Hosiery.) No. 14,863; May 25; Gaz. vol. 142; p. 1112.
- Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Rock Proof." (For Hosiery.) No. 14,864; May 25; Gaz. vol. 142; p. 1112.
- Robert A. Johnston Company, Milwaukee, Wis. "Original Dutch Bitter Sweets." (For Bitter Sweets.) No. 14,954; June 29; Gaz. vol. 143; p. 1342.
- Robert Gair Company, New York, N. Y. "'Grass Bleach' Irish Linen Hdkfs." (For Handkerchiefs.) No. 14,717; Mar. 16; Gaz. vol. 140; p. 754.
- Robert Gair Company, New York, N. Y. "The Standard Handkerchiefs." (For Handkerchiefs.) No. 14,773; Apr. 20; Gaz. vol. 141; p. 864.
- Roche, Croll & Co., New York, N. Y. "Roche-Croll Cravats." (For Cravats.) No. 14,655; Feb. 16; Gaz. vol. 139; p. 728.
- Rockwood Hosiery Mill, Philadelphia, Pa. "Rockwood Heel and Toe Hose." (For Hosiery.) No. 14,790; Apr. 27; Gaz. vol. 141; p. 1160.
- Rose, C. G., Brooklyn, N. Y. "Rose's Improved Antiseptic Catarrh Jelly." (For Catarrh-Jelly.) No. 14,893; June 8; Gaz. vol. 143; p. 560.
- Rosenstein, H., New York, N. Y. "Salamanderundi." (For Plaster Casts.) No. 14,789; Apr. 27; Gaz. vol. 141; p. 1160.
- Royal Havana Cigar Mfg. Co., Baltimore, Md. "Yellowstone Park." (For Cigars.) No. 14,980; June 29; Gaz. vol. 143; p. 1343.
- Royal Havana Cigar Mfg. Co., Baltimore, Md. "Modern Excellence." (For Cigars.) No. 14,981; June 29; Gaz. vol. 143; p. 1343.
- Royal Worcester Corset Co., Worcester, Mass. "Corset Français de Bon Ton." (For Corsets.) No. 14,640; Feb. 9; Gaz. vol. 139; p. 460.
- Rubber & Celluloid Harness Trimming Co., Newark, N. J. "Rubberstee Tooth Brush." (For Tooth-Brushes.) No. 14,974; June 29; Gaz. vol. 143; p. 1343.
- Runkel Brothers, Inc., New York, N. Y. "Runkel's Dairy Milk Chocolate." (For Chocolate.) No. 14,995; June 29; Gaz. vol. 143; p. 1343.
- Ruppert, J., New York, N. Y. "Jacob Ruppert Sparkling Ale." (For Ale.) No. 14,764; Apr. 20; Gaz. vol. 141; p. 864.
- Ruppert, J., New York, N. Y. "Porter." (For Porter.) No. 14,809; May 11; Gaz. vol. 142; p. 566.
- Saadi, J., Brooklyn, N. Y., and Washington, D. C. "Royal Ideal Pen." (For Fountain-Pens.) No. 14,919; June 22; Gaz. vol. 143; p. 1107.
- Saadi, J., Washington, D. C. "Royal Ideal Pen." (For Fountain-Pens.) No. 14,975; June 29; Gaz. vol. 143; p. 1343.
- Sacks & Levy, New York, N. Y. "Giant Hose." (For Hosiery.) No. 14,943; June 29; Gaz. vol. 143; p. 1342.
- Sampson, A. H., Holyoke, Mass. "Flaxine Linen." (For Writing-Paper.) No. 14,996; June 29; Gaz. vol. 143; p. 1343.
- Sanford, F., Cincinnati, Ohio. "Ma's-Pater Bread." (For Bread.) No. 14,753; Apr. 13; Gaz. vol. 141; p. 564.
- Sanoica, W. A., Chicago, Ill. "Kawovka." (For a Cordial Containing Coffee.) No. 14,627; Feb. 9; Gaz. vol. 139; p. 460.
- Sauter, J. D., Poughkeepsie, N. Y. "Vassar Violet." (For Perfumery.) No. 14,673; Feb. 23; Gaz. vol. 139; p. 987.
- Sauter, J. D., Poughkeepsie, N. Y. "Vassar Violet." (For Talcum Powder.) No. 14,755; Apr. 13; Gaz. vol. 141; p. 564.
- Sawkins, E. D., Baltimore, Md. "Dr. Blair's Cream of Cucumber." (For a Preparation for the Skin.) No. 14,815; May 11; Gaz. vol. 142; p. 566.
- Sawyer Crystal Blue Co., Boston, Mass. "Sawyer's Crystal Ammonia and Borax." (For Ammonia and Borax.) No. 14,782; Apr. 27; Gaz. vol. 141; p. 1160.
- Scherer, W. J., Rochester, N. Y. "Hed-Eze." (For a Medicine.) No. 14,768; Apr. 20; Gaz. vol. 141; p. 864.
- Schlichting, A. T., Newark, N. J. "Slick Shine." (For Polish for Metals.) No. 14,918; June 22; Gaz. vol. 143; p. 1107.
- Schmidt & Co., New York, N. Y. "Blue Jay." (For Cigars.) No. 14,762; Apr. 20; Gaz. vol. 141; p. 864.
- Schmidt & Co., New York, N. Y. "Donna Dulce." (For Cigars.) No. 14,836; May 25; Gaz. vol. 142; p. 1112.
- Schmidt & Co., New York, N. Y. "Don Principio." (For Cigars.) No. 14,837; May 25; Gaz. vol. 142; p. 1112.
- Schmidt & Co., New York, N. Y. "Vuelta News." (For Cigars.) No. 14,838; May 25; Gaz. vol. 142; p. 1112.
- Schmidt & Co., New York, N. Y. "Lord Lawrence." (For Cigars.) No. 14,839; May 25; Gaz. vol. 142; p. 1112.
- Schmidt & Co., New York, N. Y. "Flor De Juncos." (For Cigars.) No. 14,877; June 8; Gaz. vol. 143; p. 560.
- Schmidt & Co., New York, N. Y. "Hudson-Fulton." (For Cigars.) No. 14,878; June 8; Gaz. vol. 143; p. 560.
- Schmidt & Co., New York, N. Y. "Marca de Regalia." (For Cigars.) No. 14,900; June 15; Gaz. vol. 143; p. 862.
- Schmidt & Co., New York, N. Y. "Advertiser." (For Cigars.) No. 14,901; June 15; Gaz. vol. 143; p. 862.
- Schmidt & Co., New York, N. Y. "Nobleza." (For Cigars.) No. 14,911; June 22; Gaz. vol. 143; p. 1107.
- Schmidt & Co., New York, N. Y. "El Scento." (For Cigars.) No. 14,972; June 29; Gaz. vol. 143; p. 1343.
- Schneller, J. L., Chicago, Ill. "White Rose." (For Wine.) No. 14,808; May 11; Gaz. vol. 142; p. 566.
- Schoenheit Medicine Co., A., San Jose, Cal. "The Specific A. No. 1." (For a Medicine.) No. 14,968; June 29; Gaz. vol. 143; p. 1343.
- Schulze, H. W., Milwaukee, Wis. "Schulze's Bromo Bracer." (For Medicine.) No. 14,936; June 29; Gaz. vol. 143; p. 1342.
- Scott, A. H., Oak Lane and Philadelphia, Pa. "Sani-Tissue." (For Toilet-Paper.) No. 14,875; June 1; Gaz. vol. 143; p. 256.
- Scott Paper Company, Philadelphia, Pa. "Japishu." (For Toilet-Paper.) No. 14,908; June 15; Gaz. vol. 143; p. 862.
- Seamless Rubber Company, New Haven, Conn. "The 'Babesjoy' Nursing Outfit." (For Nursing-Outfits.) No. 14,602; Jan. 26; Gaz. vol. 138; p. 963.
- Seamless Rubber Company, New Haven, Conn. "The 'Babesjoy' Nursing Outfit." (For Nursing-Outfits.) No. 14,623; Feb. 2; Gaz. vol. 139; p. 196.
- Seamless Rubber Company, New Haven, Conn. "The 'Babesjoy' Nursing Outfit." (For Nursing-Outfits.) Nos. 14,637-8; Feb. 9; Gaz. vol. 139; p. 460.
- Seghers, J. B., Chicago, Ill. "Sunburst." (For Furniture-Polish.) No. 14,771; Apr. 20; Gaz. vol. 141; p. 864.
- Seneca Paint Co., Buffalo, N. Y. "Seneca Household Renovator." (For Combined Cleaning and Polishing Preparation.) No. 14,917; June 22; Gaz. vol. 143; p. 1107.
- Sherman & Co., L., Cincinnati, Ohio. "Old Wilmore." (For a Blended Whisky.) No. 14,646; Feb. 16; Gaz. vol. 139; p. 728.



*Alphabetical list of registrants of labels—Continued.*

- Siers, Shirk, Snader & Co., Ephrata, Pa. "Four Nobles." (For Cigars.) No. 14,748; Apr. 13; Gaz. vol. 141; p. 564.
- Smith & Son, G., Seelyville, Pa. "Kaiser Brand." (For Limburger-Type Cheese.) No. 14,868; June 1; Gaz. vol. 143; p. 256.
- Sökland & Sohne, E., Berlin, Germany. "Sökland's Pumpernickel." (For Pumpernickel.) No. 14,732; Mar. 30; Gaz. vol. 140; p. 1205.
- St. Louis Cigar Box Co., St. Louis, Mo. "Hero of Commerce." (For Cigars.) No. 14,740; Apr. 6; Gaz. vol. 141; p. 284.
- St. Pierre & Co., J., Winchendon, Mass. "Dentifrice." (For a Dentifrice.) No. 14,685; Mar. 2; Gaz. vol. 140; p. 253.
- Stellar Company, New York, N. Y. "Scintillating Sparklers." (For Fireworks.) No. 14,944; June 29; Gaz. vol. 143; p. 1342.
- Stengle-Taylor Co., Pittsburg, Pa. "Wound Lacing." (For Adhesive Plaster.) No. 14,960; June 29; Gaz. vol. 143; p. 1342.
- Sterling Pin Co., Derby, Conn. "Doric Hook & Eye." (For Hooks and Eyes.) No. 14,601; Jan. 26; Gaz. vol. 138; p. 963.
- Stoltenberg, J., Chicago, Ill. "Royal Luncheon Sardines." (For Norwegian Smoked Sardines.) No. 14,583; Jan. 5; Gaz. vol. 138; p. 255.
- Straw Hatters' Union of New York and Vicinity, New York, N. Y. "Union Made." (For Straw Hats.) No. 14,998; June 29; Gaz. vol. 143; p. 1343.
- Success Remedy Co., Oakland, Cal. "Success Remedy Co. Pills Tablets." (For Pills and Tablets.) No. 14,651; Feb. 16; Gaz. vol. 139; p. 728.
- Sugar Loaf Orange Growers Association, Highgrove, Cal. "Highgrove Brand." (For Oranges.) No. 14,629; Feb. 9; Gaz. vol. 139; p. 160.
- Sugar Loaf Orange Growers Association, Highgrove, Cal. "Sugar Loaf Brand." (For Oranges.) No. 14,680; Mar. 2; Gaz. vol. 140; p. 253.
- Sweeney, W. R., Salisbury, Mo. "Sweeney's Poison Wheat." (For Poisoned Wheat for Killing Rats, Mice, Moles, Gophers, &c.) No. 14,831; May 18; Gaz. vol. 142; p. 854.
- Sweet Mountain Cantaloupe Co., Lawrenceburg, Tenn. "Sweet Mountain Cantaloupes." (For Cantaloups.) No. 14,933; June 29; Gaz. vol. 143; p. 1342.
- Tausend, F., New York, N. Y. "Arrow Damask." (For Damasks.) No. 14,941; June 29; Gaz. vol. 143; p. 1342.
- Tausend, F., New York, N. Y. "Sunbeam Damask." (For Damasks.) No. 14,942; June 29; Gaz. vol. 143; p. 1342.
- Tausend, F., New York, N. Y. "Quilt Satin." (For Bedquilts.) No. 14,957; June 29; Gaz. vol. 143; p. 1342.
- Tausend, F., New York, N. Y. "Standard Crochet Quilt." (For Bedquilts.) No. 14,958; June 29; Gaz. vol. 143; p. 1342.
- Taylor, A. P., Lexington, Ky. "The Blue Circle Pills." (For Pills.) No. 14,892; June 8; Gaz. vol. 143; p. 560.
- Taylor, B. C., Chicago, Ill. "Cloister Chocolates." (For Chocolates.) No. 14,810; May 11; Gaz. vol. 142; p. 566.
- Taylor and Merile, New York, N. Y. "Colossus Socks." (For Socks.) No. 14,774; Apr. 20; Gaz. vol. 141; p. 864.
- Tennessee Brewing Company, Memphis, Tenn. "Brewette." (For a Non-Intoxicating Beverage.) No. 14,742; Apr. 6; Gaz. vol. 141; p. 284.
- Thats All Garter Company, Birmingham, Ala. "Thats All The Perfect Garter." (For Garters.) No. 14,899; June 8; Gaz. vol. 143; p. 560.
- Thea-Soda Company, Winston Salem, N. C. "Thea-Soda." (For Non-Alcoholic Beverages.) No. 14,880; June 8; Gaz. vol. 143; p. 560.
- Thimble, F. N., New York, N. Y. "Amorphous Roach Paste." (For an Insect and Rodent Destroyer.) No. 14,620; Feb. 2; Gaz. vol. 139; p. 196.
- Thorne, F. D., New York, N. Y. "Thoro." (For Powdered Toilet Soap.) No. 14,687; Mar. 2; Gaz. vol. 140; p. 253.
- Three B B B Company, Detroit, Mich. "Detroit." (For Type-Writer Carbon-Paper.) No. 14,690; Mar. 2; Gaz. vol. 140; p. 253.
- Three B B B Company, Detroit, Mich. "Majestic." (For Type-Writer Carbon-Paper.) No. 14,758; Apr. 13; Gaz. vol. 141; p. 564.
- Three B B B Company, Detroit, Mich. "Superior." (For Type-Writer Carbon-Paper.) No. 14,759; Apr. 13; Gaz. vol. 141; p. 564.
- Tiedeman, J. F., Brooklyn, N. Y. "Laxura." (For Laxative Tablets.) No. 14,735; Mar. 30; Gaz. vol. 140; p. 1205.
- Tindall, Kolbe & McDowell Co., Milwaukee, Wis. "Badger Roasted Coffee." (For Coffee.) No. 15,061; Sept. 14; Gaz. vol. 146; p. 504.
- Tipton, M. R., Seattle, Wash. "Alletider Slikker." (For Medicine.) No. 14,914; June 22; Gaz. vol. 143; p. 1107.
- Tirico Pharmaceutical Company, Newark, N. J. "Vigor Ferina." (For a Medicinal Preparation.) No. 14,668; Feb. 23; Gaz. vol. 139; p. 987.
- Tomson & Company, P. C., Philadelphia, Pa. "Uncle Sam." (For Cleansers in Powdered Form.) No. 14,905; June 15; Gaz. vol. 143; p. 862.
- Towns & James, New York, N. Y. "Boralum Ointment." (For an Astringent Antiseptic Ointment.) No. 14,736; Mar. 30; Gaz. vol. 140; p. 1205.
- Towns & James, New York, N. Y. "Unguentum Rezinox." (For an Ointment.) No. 14,737; Mar. 30; Gaz. vol. 140; p. 1205.
- Tyndale, W. C., Chicago, Ill. "Iodolum." (For an Ointment.) No. 14,599; Jan. 26; Gaz. vol. 138; p. 963.
- Union Paper & Twine Co., Detroit, Mich. "Kraftwrap." (For Wrapping-Paper.) No. 14,677; Feb. 23; Gaz. vol. 139; p. 987.
- Van Haagen, J. C., Philadelphia, Pa. "Shav-O." (For Shaving-Soap Powder.) No. 14,848; May 25; Gaz. vol. 142; p. 1112.
- Van Koringut, S., Cleveland, Ohio. "Edelweiss Frühstück Käschen." (For Cheese.) No. 14,697; Mar. 9; Gaz. vol. 140; p. 505.
- Van Rensselaer & Co., C. A., New York, N. Y. "Revolution." (For Brandy.) No. 14,841; May 25; Gaz. vol. 142; p. 1112.
- Vernon, S. E. & M., New York, N. Y. "Vernon's Special Flat Opening Blank Books." (For Blank Books.) No. 14,642; Feb. 9; Gaz. vol. 139; p. 460.
- Victor Tobacco Company, Cincinnati, Ohio. "Keno Cigar Scrap." (For Smoking and Chewing Tobaccos.) No. 14,604; Feb. 2; Gaz. vol. 139; p. 196.
- Victor Tobacco Company, Cincinnati, Ohio. "Lotto Scrap." (For Smoking and Chewing Tobaccos.) No. 14,605; Feb. 2; Gaz. vol. 139; p. 196.
- Volkmar, L. G., Chicago, Ill. "Nertona." (For a Non-Intoxicating Beverage.) No. 14,663; Feb. 23; Gaz. vol. 139; p. 987.
- W. B. McCoy Company, Gallion, Ohio. "Real Kisses." (For Candy Kisses.) No. 14,649; Feb. 16; Gaz. vol. 139; p. 728.
- W. B. McCoy Company, Gallion, Ohio. "Occo-nut Chews." (For Nut-Flavored Candy Chews.) No. 14,696; Mar. 9; Gaz. vol. 140; p. 505.
- Wall, J. J., Duluth, Minn. "Wanigas." (For Straight Rye Whisky.) No. 15,068; Nov. 9; Gaz. vol. 148; p. 567.
- Wanamaker, J., Philadelphia, Pa. "Wanamaker Water-Spot Proof Silks." (For Piece Silk Goods.) No. 14,675; Feb. 23; Gaz. vol. 139; p. 987.
- Wanamaker, J., Philadelphia, Pa. "Wanamaker Water-Spot Proof Foulards." (For Piece Goods Known as Foulards.) No. 15,063; Sept. 14; Gaz. vol. 146; p. 504.
- Washee Manufacturing Co., Andrews, Ind. "Washee Wafer." (For a Washing Preparation.) No. 14,895; June 8; Gaz. vol. 143; p. 560.
- Watt, H. J., and J. J. Grathwol, Minneapolis, Minn. "La Seguridad." (For Cigars.) No. 14,902; June 15; Gaz. vol. 143; p. 862.
- Weir, H. F., Kansas City, Mo. "25 Cents Baking Powder." (For Baking-Powder.) No. 14,904; June 15; Gaz. vol. 143; p. 862.
- White's Laboratories, Los Angeles, Cal. "White's New Life for Feet." (For Foot-Powder.) No. 14,939; June 29; Gaz. vol. 143; p. 1342.
- Whitlock R. G., Los Angeles, Cal. "Good Judgment." (For Wine-Vinegar.) No. 14,931; June 29; Gaz. vol. 143; p. 1342.
- Whitman & Son, S. F., Philadelphia, Pa. "A Fussy Package." (For Chocolates.) No. 14,607; Feb. 2; Gaz. vol. 139; p. 196.
- Whittam, C. N., St. Louis, Mo. "Whittam's Champagne Bouquet Gum." (For a Gum.) No. 14,611; Feb. 2; Gaz. vol. 139; p. 196.
- Whittam, C. N., St. Louis, Mo. "Whittam's Peppermint Gum." (For Peppermint Gum.) No. 14,612; Feb. 2; Gaz. vol. 139; p. 196.
- Williams Co., D. H., St. Louis, Mo. "The Popular Drink-Breeze." (For a Beverage.) No. 14,695; Mar. 9; Gaz. vol. 140; p. 505.
- Wilson, J. R., Harrisburg, Pa. "HO-LON-OL." (For a Medicine for External Application.) No. 14,617; Feb. 2; Gaz. vol. 139; p. 196.
- Wine, C. F., Denver, Colo. "Maximus." (For a Dandruff Remedy.) No. 14,711; Mar. 16; Gaz. vol. 140; p. 754.
- Wittman, F., Whitestone and New York, N. Y. "Witt Brand Label." (For Photographic Card-Mounts.) No. 14,969; June 29; Gaz. vol. 143; p. 1343.
- Wm. F. Mosser Co., Boston, Mass. "Bonita Upper Leather." (For Upper-Leather.) No. 14,641; Feb. 9; Gaz. vol. 139; p. 460.
- Wolf, H., Globe, Ariz. "Wolf's Catarrh Remedy." (For Medicine for Catarrh.) No. 15,071; Dec. 14; Gaz. vol. 149; p. 600.
- Wolf & Sons, H., Cincinnati, Ohio. "Gold Medal Hose." (For Hosiery.) No. 14,922; June 22; Gaz. vol. 143; p. 1107.
- Young, F. W., Lindsay, Cal. "Dry Bog." No. 14,630; Feb. 9; Gaz. vol. 139; p. 460.
- Young, Smyth, Field Company, Philadelphia, Pa. "Marathon." (For Drawers.) No. 14,852; May 25; Gaz. vol. 142; p. 1112.
- Zeman-Collins Shoe Co., Pittsburg, Pa. "The Faultless \$3.50 Shoe." (For Shoes.) No. 14,976; June 29; Gaz. vol. 143; p. 1343.
- Zloczower, I., New York, N. Y. "The Crown Celery Tonic." (For a Non-Alcoholic Carbonated Beverage.) No. 14,741; Apr. 6; Gaz. vol. 141; p. 284.

## PRINTS.

- Alfred Benjamin & Co., New York, N. Y. "Benjamin Clothes Made in New York." (For Clothes.) No. 2,510; June 1; Gaz. vol. 143; p. 256.
- Alfred Benjamin & Co., New York, N. Y. "Benjamin Clothes Alfred Benjamin & Co. Makers New York." (For Clothes.) No. 2,515; June 8; Gaz. vol. 143; p. 560.
- Alfred Benjamin & Co., New York, N. Y. "Benjamin Clothes Made in New York Alfred Benjamin & Co. Makers." (For Clothes.) No. 2,516; June 8; Gaz. vol. 143; p. 560.
- Alfred Benjamin & Co., New York, N. Y. "Benjamin Clothes." (For Clothes.) No. 2,517; June 8; Gaz. vol. 143; p. 560.
- Alfred Benjamin & Co., New York, N. Y. "Benjamin Made Clothes." (For Clothes.) No. 2,536; June 29; Gaz. vol. 143; p. 1344.
- American Lady Corset Co., Detroit, Mich. "The American Lady." (For Corsets.) No. 2,429; Feb. 23; Gaz. vol. 139; p. 987.
- American Watch Tool Company, Waltham, Mass. "Our New Model Pivot Polisher." (For Pivot-Polishers.) No. 2,523; June 15; Gaz. vol. 143; p. 862.
- American Watch Tool Company, Waltham, Mass. "Webster-Whitcomb Pump Center Headstock for Jeweling." (For Pump Center Headstocks.) No. 2,548; June 29; Gaz. vol. 143; p. 1344.
- Antiseptic Dustless Sweeping Compound Company, Manor borough, Pa. "Uwanta." (For Antiseptic Dustless Sweeping Compound.) No. 2,533; June 29; Gaz. vol. 143; p. 1344.
- Arnold B. Heine & Co., New York, N. Y. "Heine Embroideries." (For Embroideries.) Nos. 2,478-9; May 4; Gaz. vol. 142; p. 286.
- Asher and Weir, Los Angeles, Cal. "Fairy." (For Polish.) No. 2,467; Apr. 20; Gaz. vol. 141; p. 864.
- B. V. D. Company, New York, N. Y. "The Loose Fitting B. V. D. Union Suit." (For Union Suits.) No. 2,496; May 18; Gaz. vol. 142; p. 854.
- B. V. D. Company, New York, N. Y. "Youths' Loose Fitting B. V. D. Coat Cut Undershirts and Knee Length Drawers." (For Undershirts and Drawers.) No. 2,497; May 18; Gaz. vol. 142; p. 854.
- B. V. D. Company, New York, N. Y. "Loose Fitting B. V. D. Coat Cut Undershirts and Knee Length Drawers." (For Undershirts and Drawers.) No. 2,498; May 18; Gaz. vol. 142; p. 854.
- B. V. D. Company, New York, N. Y. "The Loose Fitting B. V. D. Sleeping Suit. Long Sleeves. Ankle Length." (For Sleeping-Suits.) No. 2,499; May 18; Gaz. vol. 142; p. 854.
- B. V. D. Company, New York, N. Y. "The Loose Fitting B. V. D. Sleeping Suit. Short Sleeves. Knee Length." (For Sleeping-Suits.) No. 2,500; May 18; Gaz. vol. 142; p. 854.
- Badger Brass Mfg. Co., Kenosha, Wis. "Solar Motor Lamp Chart." (For Lamps and Generators for Automobiles.) No. 2,450; Mar. 23; Gaz. vol. 140; p. 999.
- Bennett, C. P., Philadelphia, Pa. "Automatic French Polish." (For a Polish.) No. 2,437; Mar. 9; Gaz. vol. 140; p. 505.
- Birch, A., Arlington, Mass. "Continuous Crabbing Machine." (For Cloth-Crabbing Machines.) Nos. 2,537-8; June 29; Gaz. vol. 143; p. 1344.
- Bon Ami Company, Jersey City, N. J., and New York, N. Y. "Hasn't Scratched Yet!!!" (For a Scouring-Soap.) Nos. 2,411-12; Jan. 26; Gaz. vol. 138; p. 963.
- Bowles, J. R., Hopkinsville, Ky. "Bre(a)d In Old Kentucky." (For Flour.) No. 2,409; Jan. 5; Gaz. vol. 138; p. 255.
- Burlington Blanket Company, Burlington, Wis. "Watch My Smoke." (For Sweat-Pads.) No. 2,447; Mar. 23; Gaz. vol. 140; p. 999.
- Burnet and Temple, London, England. "The 'Hairlyke' Fringe Net." (For Hair-Nets.) No. 2,502; May 25; Gaz. vol. 142; p. 1112.
- Cameron Schroth Cameron Company, Chicago, Ill. "Richmond." (For Boilers, Radiators, Heating and Plumbing Supplies.) No. 2,440; Mar. 9; Gaz. vol. 140; p. 505.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. "Colgate's Talc Powder." (For Talc Powder.) No. 2,490; May 11; Gaz. vol. 142; p. 566.
- Colgate & Company, Jersey City, N. J., and New York, N. Y. "Lies Flat On The Brush." (For Dental Cream.) No. 2,473; May 4; Gaz. vol. 142; p. 286.
- Commercial Lubricating Co., Camden, N. J., and Philadelphia, Pa. "Lubriko." (For Lubricating Oil and Grease.) No. 2,443; Mar. 16; Gaz. vol. 140; p. 754.
- Conrad Seipp Brewing Co., Chicago, Ill. "You Can't Get Around It." (For Beer.) No. 2,430; Mar. 2; Gaz. vol. 140; p. 253.
- Conwell, L. R., New York, N. Y. "West Point Chocolates." (For Chocolates.) No. 2,511; June 8; Gaz. vol. 143; p. 560.
- Crandall Packing Co., Palmyra, N. Y. "If I Drop In Will You Save Me." (For Packing.) No. 2,452; Mar. 30; Gaz. vol. 140; p. 1205.
- Cream of Wheat Co., Minneapolis, Minn. "Cream of Wheat Is Ready." (For Wheat Breakfast Food.) No. 2,417; Feb. 16; Gaz. vol. 139; p. 728.
- Cream of Wheat Co., Minneapolis, Minn. "A Case of Desertion." (For Wheat Breakfast Food.) No. 2,418; Feb. 16; Gaz. vol. 139; p. 728.
- Cream of Wheat Co., Minneapolis, Minn. "I Know That Man." (For Wheat Breakfast Food.) No. 2,419; Feb. 16; Gaz. vol. 139; p. 728.
- Cream of Wheat Co., Minneapolis, Minn. "Fast Asleep." (For Wheat Breakfast Food.) No. 2,420; Feb. 16; Gaz. vol. 139; p. 728.
- Cream of Wheat Co., Minneapolis, Minn. "Jack-The-Giant Killer." (For Wheat Breakfast Food.) No. 2,427; Feb. 23; Gaz. vol. 139; p. 987.
- Cream of Wheat Co., Minneapolis, Minn. "School Days." (For Wheat Breakfast Food.) No. 2,428; Feb. 23; Gaz. vol. 139; p. 987.
- Cream of Wheat Co., Minneapolis, Minn. "A Modern Atlas." (For Wheat Breakfast Food.) No. 2,431; Mar. 2; Gaz. vol. 140; p. 253.
- Cream of Wheat Co., Minneapolis, Minn. "Poor Old Robinson Crusoe." (For Wheat Breakfast Food.) No. 2,521; June 15; Gaz. vol. 143; p. 862.
- Cream of Wheat Co., Minneapolis, Minn. "Child and Dog." (For Wheat Breakfast Food.) No. 2,522; June 15; Gaz. vol. 143; p. 862.
- David Adler & Sons Clothing Co., Milwaukee, Wis. "The Adler Styles For Spring 1909." (For Men's Spring Apparel.) No. 2,448; Mar. 23; Gaz. vol. 140; p. 999.
- David Adler & Sons Clothing Co., Milwaukee, Wis. "New Adler Conceptions For Spring 1909." (For Men's Spring Apparel, 1909.) No. 2,457; Apr. 6; Gaz. vol. 141; p. 284.
- Decker & Cohn, A., Chicago, Ill. "Mens Apparel." (For Men's Apparel.) No. 2,444; Mar. 16; Gaz. vol. 140; p. 754.
- Dyer, M. W., New York, N. Y. "Marcella." (For Ladies' Underwear.) No. 2,542; June 29; Gaz. vol. 143; p. 1344.
- Ed. V. Price & Co., Chicago, Ill. "Our Advocate." (For Men's and Boys' Coats, Vests, and Trousers.) No. 2,439; Mar. 9; Gaz. vol. 140; p. 505.
- Ed. V. Price & Co., Chicago, Ill. "It Is Safer For You." (For Men's and Boys' Coats, Vests, and Trousers.) No. 2,458; Apr. 6; Gaz. vol. 141; p. 284.
- Ed. V. Price & Co., Chicago, Ill. "The Line Of Woollens." (For Men's and Boys' Coats, Vests, and Trousers.) No. 2,459; Apr. 6; Gaz. vol. 141; p. 284.
- Edward & John Burke Limited, New York, N. Y. "Burke's Bottled Guinness Stout." (For Stout.) No. 2,545; June 29; Gaz. vol. 143; p. 1344.
- Edward & John Burke Limited, New York, N. Y. "There are Both Snap and Vigor." (For Stout.) No. 2,547; June 29; Gaz. vol. 143; p. 1344.
- F. J. Cooper Advertising Agency, San Francisco, Cal. "Watch the Lucky Key." (For Keys.) No. 2,432; Mar. 2; Gaz. vol. 140; p. 253.
- F. J. Cooper Advertising Agency, San Francisco, Cal. "Why the Lucky Key." (For Keys.) No. 2,433; Mar. 2; Gaz. vol. 140; p. 253.
- F. J. Cooper Advertising Agency, San Francisco, Cal. "Have You the Lucky Key." (For Keys.) No. 2,434; Mar. 2; Gaz. vol. 140; p. 253.
- Fisk Rubber Company, Chicopee Falls, Mass. "Fisk Tires." (For Tires.) No. 2,544; June 29; Gaz. vol. 143; p. 1344.
- Frankel Brothers, New York, N. Y. "Frankel's New York City Tailored Clothes." (For Clothes.) No. 2,508; June 1; Gaz. vol. 143; p. 256.
- Frankel Brothers, New York, N. Y. "Frankel's Tailored in New York City Clothes." (For Clothes.) No. 2,509; June 1; Gaz. vol. 143; p. 256.
- Freeman, C. M., New York, N. Y. "Valuable Certificate." (For Toilet Preparations.) No. 2,474; May 4; Gaz. vol. 142; p. 286.
- Gartside, J. H., Philadelphia, Pa. "Iron Rust Soap." (For Soap.) No. 2,477; May 4; Gaz. vol. 142; p. 286.
- Gerstendorfer Bros., New York, N. Y. "Sapolin Gold Enamel." (For Gold Enamel.) No. 2,460; Apr. 13; Gaz. vol. 141; p. 564.
- Hall-Taylor Co., Milwaukee, Wis. "A little dog you see at first—Of all sad fates, his end is wurst." (For Sausages.) No. 2,454; Apr. 6; Gaz. vol. 141; p. 284.
- Hall-Taylor Co., Milwaukee, Wis. "May the lemons be few Which the world hands to you." (For Lemons.) No. 2,465; Apr. 20; Gaz. vol. 141; p. 864.
- Hartford Rubber Works Company, Hartford, Conn. "The Hartford Clincher Tire." (For Rubber Tires.) No. 2,489; May 4; Gaz. vol. 142; p. 286.



*Alphabetical list of registrants of prints—Continued.*

- Hartford Rubber Works Company, Hartford, Conn. "The Tire That Lasts." (For Rubber Tires.) No. 2,518; June 8; Gaz. vol. 143; p. 560.
- Huyler's, New York, N. Y. "My Favorites." (For Chocolates with Nut Centers.) No. 2,416; Feb. 9; Gaz. vol. 139; p. 460.
- Hygienic Products Company, Canton, Ohio. "La-Creme 'Disinfectine' Toilet Soap." (For Toilet Soap.) No. 2,491; May 11; Gaz. vol. 142; p. 566.
- International Specialty Company, San Francisco, Cal. "Soft Spots." (For Pneumatic Heel-Cushions.) No. 2,410; Jan. 5; Gaz. vol. 138; p. 255.
- John Boyle & Company, New York, N. Y. "J. B. & Co." (For Awnings.) No. 2,487; May 4; Gaz. vol. 142; p. 286.
- Krichbaum, F., Ashland, Ohio. "A True Case." (For Automobile-Tire Reliners.) No. 2,469; Apr. 20; Gaz. vol. 141; p. 864.
- Kuh, Nathan & Fischer Co., Chicago, Ill. "Duplex." (For Overcoats.) No. 2,507; June 1; Gaz. vol. 143; p. 256.
- L. Roy Curtiss Advertising Company, Kansas City, Mo. "Pennant Candies." (For Candies.) No. 2,453; Apr. 6; Gaz. vol. 141; p. 284.
- Lake Chemical Company, New Brunswick, N. J. "Foot Rest." (For Foot-Powder.) No. 2,513; June 8; Gaz. vol. 143; p. 560.
- Louis Dejonge & Co., New York, N. Y. "Pyramid Fly Catcher." (For Fly-Paper.) No. 2,456; Apr. 6; Gaz. vol. 141; p. 284.
- Louis Taussig & Company, San Francisco, Cal. "Carroll Rye." (For a Blend of Rye Whiskies.) No. 2,550; Aug. 31; Gaz. vol. 145; p. 1248.
- McArthur, M. J., Cleveland, Ohio. "The McArthur Portable Fire Escape." (For a Fire-Escape.) No. 2,445; Mar. 16; Gaz. vol. 140; p. 754.
- McArthur, M. J., Cleveland, Ohio. "McArthur's Portable Fire Escape and Jacob's Ladder." (For Fire-Escapes and Jacob's Ladders.) No. 2,488; May 4; Gaz. vol. 142; p. 286.
- Mendelsohn, F., Chicago, Ill. "Mendelsohn's Newspaper Cut Service for Brewers and Bottlers." (For Beer.) No. 2,472; May 4; Gaz. vol. 142; p. 286.
- Mendenhall, E. V., Altoona, Pa. "Shaffer's Log Cabin Flour." (For Flour.) No. 2,441; Mar. 16; Gaz. vol. 140; p. 754.
- Mendenhall, E. V., Altoona, Pa. "Premier Flour." (For Flour.) No. 2,461; Apr. 20; Gaz. vol. 141; p. 864.
- Mendenhall, E. V., Altoona, Pa. "Golden Sheaf Flour." (For Flour.) No. 2,462; Apr. 20; Gaz. vol. 141; p. 864.
- Mendenhall, E. V., Altoona, Pa. "Acme Flour." (For Flour.) No. 2,463; Apr. 20; Gaz. vol. 141; p. 864.
- Mendenhall, E. V., Altoona, Pa. "Our Trophy Flour." (For Flour.) No. 2,464; Apr. 20; Gaz. vol. 141; p. 864.
- Mendenhall, E. V., Altoona, Pa. "Royal Queen Flour." (For Flour.) No. 2,494; May 18; Gaz. vol. 142; p. 854.
- Mendenhall, E. V., Altoona, Pa. "Gold Crown Flour." (For Flour.) No. 2,552; Oct. 12; Gaz. vol. 147; p. 515.
- Mendenhall, E. V., Altoona, Pa. "Queen's Taste B. B." (For Wheat-Flour.) No. 2,553; Oct. 26; Gaz. vol. 147; p. 1033.
- Mendenhall, E. V., Altoona, Pa. "Golden Grain." (For Wheat-Flour.) No. 2,554; Oct. 26; Gaz. vol. 147; p. 1033.
- Mendenhall, E. V., Altoona, Pa. "King of the West." (For Wheat-Flour.) No. 2,555; Oct. 26; Gaz. vol. 147; p. 1033.
- Natural Food Company, Niagara Falls, N. Y. "Chocolate Wheat Kernels." (For a Cereal Food Product.) No. 2,531; June 29; Gaz. vol. 143; p. 1344.
- Nelke & Co., H. L., Philadelphia, Pa. "Togards." (For Toe-Guards for Hosiery.) No. 2,540; June 29; Gaz. vol. 143; p. 1344.
- Northwestern Cement Products Assn., Minneapolis, Minn. "Portland Cement." (For Portland Cement.) No. 2,543; June 29; Gaz. vol. 143; p. 1344.
- Oberdorff, G. A., Windsor borough, Pa. "Nick and Dick." (For Cigars.) No. 2,493; May 18; Gaz. vol. 142; p. 854.
- Oriental Tobacco Company, St. Louis, Mo. "The Modern Egyptian." (For Naishaper Cigarettes.) No. 2,530; June 29; Gaz. vol. 143; p. 1344.
- Paas Dye Company, Newark, N. J. "Wait Till I Catch That Peacock." (For Easter-Egg Dyes.) No. 2,442; Mar. 16; Gaz. vol. 140; p. 754.
- Paul Rieger & Co., San Francisco, Cal. "California Flower Girl." (For California Perfumes.) No. 2,421; Feb. 16; Gaz. vol. 139; p. 728.
- Pearl, E. F., New York, N. Y. "Douche De Luxe." (For Douche.) No. 2,514; June 8; Gaz. vol. 143; p. 560.
- Peck & Co., S. W., New York, N. Y. "New York Made Clothes." (For Clothes.) No. 2,485; May 4; Gaz. vol. 142; p. 286.
- Peck & Co., S. W., New York, N. Y. "Broadway Clothes." (For Men's Clothing.) No. 2,486; May 4; Gaz. vol. 142; p. 286.
- Perin Bros., Cincinnati, Ohio. "Perin's Pride Flour." (For Flour.) No. 2,471; Apr. 27; Gaz. vol. 141; p. 1160.
- Plympton, F. K., Wellesley, Mass. "The Old Way—The New Way." (For Bottle Stoppers or Caps.) No. 2,549; June 29; Gaz. vol. 143; p. 1344.
- Price & Co., E. V., Chicago, Ill. "Bulletin No. 4." (For Men's and Boys' Coats, Vests, and Trousers.) No. 2,534; June 29; Gaz. vol. 143; p. 1344.
- Price & Co., E. V., Chicago, Ill. "Bulletin No. 5." (For Men's and Boys' Coats, Vests, and Trousers.) No. 2,535; June 29; Gaz. vol. 143; p. 1344.
- Ray Gum Company, Limited, Reading, Pa. "Sa-So Pepsin Bubble Balloon Gum." (For Pepsin Gum.) No. 2,455; Apr. 6; Gaz. vol. 141; p. 284.
- Renz, W. A., Ottawa, Ill. "New Gum Coca." (For Gum.) No. 2,466; Apr. 20; Gaz. vol. 141; p. 864.
- Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Wunderhose." (For Hosiery.) No. 2,438; Mar. 9; Gaz. vol. 140; p. 505.
- Russell, W. W., Highland Park, N. J. "The Substitute." (For Playing-Cards.) No. 2,476; May 4; Gaz. vol. 142; p. 286.
- Russell, W. W., Highland Park, N. J. "The Substitute." (For Playing-Cards.) Nos. 2,525-9; June 29; Gaz. vol. 143; p. 1107.
- Schandain & Lind, Philadelphia, Pa. "Garwood's Violet Breath Hearts." (For Confections.) Nos. 2,504-5; June 1; Gaz. vol. 143; p. 256.
- Sears, Roebuck and Co., Chicago, Ill. "Cut Off Mattress." (For Mattresses.) No. 2,539; June 29; Gaz. vol. 143; p. 1344.
- Sears, Roebuck and Co., Chicago, Ill. "Purity Brand." (For Pillows.) No. 2,541; June 29; Gaz. vol. 143; p. 1344.
- Sears, Roebuck & Company, Chicago, Ill. "Cut of Mattress." (For Mattresses.) Nos. 2,422-6; Feb. 16; Gaz. vol. 139; p. 728.
- Selby Smelting and Lead Company, San Francisco, Cal. "Selby Loads." (For Shotgun-Shells.) No. 2,435; Mar. 2; Gaz. vol. 140; p. 253.
- Selby Smelting and Lead Company, San Francisco, Cal. "Selby Metals." (For Metals.) No. 2,436; Mar. 2; Gaz. vol. 140; p. 253.
- Semola Manfg Co., Los Angeles, Cal. "Semola." (For an Insecticide.) No. 2,556; Dec. 14; Gaz. vol. 149; p. 600.
- Sheer Co., H. M., Quincy, Ill. "Change Fertile Eggs Into Healthy Chicks." (For Incubator-Supplies.) No. 2,449; Mar. 23; Gaz. vol. 140; p. 999.
- Sherman & Bryan, New York, N. Y. "Gotham Clothes." (For Clothes.) No. 2,480; May 4; Gaz. vol. 142; p. 286.
- Sherman & Bryan, New York, N. Y. "Manhattan Clothes." (For Clothes.) No. 2,481; May 4; Gaz. vol. 142; p. 286.
- Sherman & Bryan, New York, N. Y. "Fifth Avenue Clothes." (For Clothes.) No. 2,482; May 4; Gaz. vol. 142; p. 286.
- Sherman & Bryan, New York, N. Y. "Metropolitan Clothes." (For Clothes.) No. 2,483; May 4; Gaz. vol. 142; p. 286.
- Sherman & Bryan, New York, N. Y. "Knickerbocker Clothes." (For Clothes.) No. 2,484; May 4; Gaz. vol. 142; p. 286.
- Shredded Wheat Company, Niagara Falls, N. Y. "Shredded Wheat." (For a Breakfast Food.) No. 2,501; May 25; Gaz. vol. 142; p. 1112.
- Simons, A. B., San Diego, Cal. "Gumless." (For Varnishes.) No. 2,492; May 11; Gaz. vol. 142; p. 566.
- Standard Varnish Works, New York, N. Y. "The Man Who Works." (For Preservative, Floor-Varnish, Enamels, and Varnishes.) No. 2,532; June 29; Gaz. vol. 143; p. 1344.
- Stuart and Keith, Baltimore, Md. "Jumbo Overalls." (For Overalls.) No. 2,413; Jan. 26; Gaz. vol. 138; p. 963.
- Swift, E. H., New York, N. Y. "Swift's Economy Steam Furnace Blower." (For Steam-Furnace Blowers.) No. 2,470; Apr. 20; Gaz. vol. 141; p. 864.
- Swift, E. H., New York, N. Y. "Swift's Economy Draft Inducer." (For Apparatus for Inducing Draft in Smoke-Stacks.) No. 2,519; June 8; Gaz. vol. 143; p. 560.
- Thats All Garter Company, Birmingham, Ala. "Thats All The Perfect Garter." (For Garters.) No. 2,506; June 1; Gaz. vol. 143; p. 256.
- Thea-Soda Company, Winston Salem, N. C. "Thea-Soda." (For Non-Alcoholic Beverages.) No. 2,520; June 15; Gaz. vol. 143; p. 862.
- United States Playing Card Company, Norwood, Ohio. "Dolly Back, Columbia Playing Cards." (For Playing-Cards.) No. 2,475; May 4; Gaz. vol. 142; p. 286.
- United States Playing Card Company, Norwood, Ohio. "Autumn, Reveries, Norma and Polly Backs, Congress Playing Cards." (For Playing-Cards.) No. 2,503; May 25; Gaz. vol. 142; p. 1112.
- United States Playing Card Company, Norwood, Ohio. "Pansy, Chums, Stung and The Widow Backs, Congress Playing Cards." (For Playing-Cards.) No. 2,551; Sept. 14; Gaz. vol. 146; p. 504.
- W. V. Snyder Co., Newark, N. J. "Little Wonder." (For Children's Stockings.) No. 2,524; June 15; Gaz. vol. 143; p. 862.
- Warner Brothers Co., Bridgeport, Conn. "Redfern Directoire Figure." (For Corsets.) No. 2,546; June 29; Gaz. vol. 143; p. 1344.
- Washburn Crosby Company, Minneapolis, Minn. "Your Flour." (For Flour.) No. 2,414; Feb. 2; Gaz. vol. 139; p. 196.
- Washburn Crosby Company, Minneapolis, Minn. "Start Housekeeping Right." (For Flour.) No. 2,451; Mar. 30; Gaz. vol. 140; p. 2205.
- Washburn Crosby Company, Minneapolis, Minn. "This Is For You—." (For Flour.) No. 2,495; May 18; Gaz. vol. 142; p. 854.
- Washburn Crosby Company, Minneapolis, Minn. "All Maids and Housewives." (For Flour.) No. 2,512; June 8; Gaz. vol. 143; p. 560.
- Willis W. Russell Card Co., Milltown, N. J. "Swastika Fullback." (For Playing-Cards.) No. 2,446; Mar. 23; Gaz. vol. 140; p. 999.
- Wyeth Hardware and Manufacturing Company, St. Joseph, Mo. "Wylupe Harness." (For Harness.) No. 2,415; Feb. 2; Gaz. vol. 139; p. 196.
- Zeman-Collins Shoe Co., Pittsburg, Pa. "Tech Shoe for Men." (For Men's Shoes.) No. 2,468; Apr. 20; Gaz. vol. 141; p. 864.

## DISCLAIMERS.

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Adams, H. C., New York, N. Y.; disclaimer filed by patentee. Fastener for stair-carpet. No. 587,633; disclaimer filed Mar. 27, 1909; Gaz. vol. 141; p. 289.

Channon, J. H., Chicago, Ill.; disclaimer filed by patentee. Fireproof drop-curtain. No. 769,788; disclaimer filed Jan. 21, 1909; Gaz. vol. 139; p. 201.

Cornell, E. W., Adrian, Mich.; disclaimer filed by assignee, Westminster Deposit & Trust Co. Can-labeling machine. No. 612,825; disclaimer filed Jan. 25, 1909; Gaz. vol. 139; p. 202.

Gold, E. H., Chicago, Ill.; disclaimer filed by patentee. Fitting for fluid-supply systems. No. 872,338; disclaimer filed Oct. 1, 1909; Gaz. vol. 147; p. 522.

Joy, J. M., New York, N. Y.; disclaimer filed by assignee, Page Machine Company. Printing-telegraph receiver. No. 780,664; disclaimer filed Apr. 19, 1909; Gaz. vol. 141; p. 1166.

Marshall, N., Newton, Mass.; disclaimer filed by patentee. Insulating-Lining. No. 784,695; disclaimer filed Jan. 4, 1909; Gaz. vol. 138; p. 532.

Mertz, E., Basel, Switzerland; disclaimer filed by patentee. Multistage turbine. No. 892,400; disclaimer filed Mar. 27, 1909; Gaz. vol. 141; p. 289.

Turner, J. C., Dayton, Ohio; disclaimer filed by assignee, Schieble Toy & Novelty Co. Toy. No. 930,633; disclaimer filed Oct. 8, 1909; Gaz. vol. 147; p. 773.

Walker, W. H., Racine, Wis.; disclaimer filed by assignee, O. K. Barnett. Rail-anchor. No. 911,856; disclaimer filed Nov. 3, 1909; Gaz. vol. 148; p. 575.

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# ALPHABETICAL LIST OF INVENTIONS.

[Abbreviations: "Sp."=Monthly Volume of Specifications; "Dr."=Monthly Volume of Drawings; "Gaz."=Official Gazette.]

- Abdomen-compress. T. P. Taylor. No. 915,049; Mar. 9; Sp. p. 2857; Gaz. vol. 140; p. 484.  
 Abdomen-compress. T. P. Taylor. No. 915,051; Mar. 9; Sp. p. 2860; Gaz. vol. 140; p. 485.  
 Abdomen-compress. T. P. Taylor. No. 921,026; May 11; Sp. p. 1896; Gaz. vol. 142; p. 336.  
 Abdomen-compress attachment for corsets. T. P. Taylor. No. 915,050; Mar. 9; Sp. p. 2859; Gaz. vol. 140; p. 484.  
 Abdominal support. J. S. Allred. No. 936,752; Oct. 12; Sp. p. 2413; Gaz. vol. 147; p. 402.  
 Abdominal support and truss, Combined. L. H. Temme. No. 917,812; Apr. 13; Sp. p. 1712; Gaz. vol. 141; p. 315.  
 Abdominal supporter. E. F. Small. No. 937,724; Oct. 19; Sp. p. 4427; Gaz. vol. 147; p. 751.  
 Abdominal supporter and suspensory. P. Zuckriegel. No. 908,533; Jan. 5; Sp. p. 214; Gaz. vol. 138; p. 37.  
 Abdominal supporter and truss, Combined. J. F. Cruif. No. 922,859; May 25; Sp. p. 5692; Gaz. vol. 142; p. 997.  
 Abnormal potential-discharging and arc-disrupting device. F. W. Erickson and F. W. Lord. No. 932,541; Aug. 31; Sp. p. 6159; Gaz. vol. 145; p. 1068.  
 Abnormal potential-discharging and arc-disrupting device. F. W. Erickson and F. W. Lord. No. 933,027; Aug. 31; Sp. p. 7150; Gaz. vol. 145; p. 1228.  
 Abrading device, Rotary. J. H. Hodskinson. No. 917,068; Apr. 6; Sp. p. 211; Gaz. vol. 141; p. 39.  
 Abrading-machine. J. Milne, Jr. No. 919,054; Apr. 20; Sp. p. 4350; Gaz. vol. 141; p. 759.  
 Abrading-machine. O. W. Brenizer. No. 922,382; May 18; Sp. p. 4681; Gaz. vol. 142; p. 812.  
 Abrasive apparatus. O. C. Wysong. No. 918,247; Apr. 13; Sp. p. 2625; Gaz. vol. 141; p. 465.  
 Abrasive bodies having a porcelain base, Fastening for. C. Jung. No. 920,475; May 4; Sp. p. 770; Gaz. vol. 142; p. 124.  
 Abrasive composition and making same. L. H. Baekeland. No. 942,808; Dec. 7; Sp. p. 1592; Gaz. vol. 149; p. 262.  
 Abrasive-machine, Belt. D. S. Oakley. No. 927,066; July 6; Sp. p. 776; Gaz. vol. 144; p. 123.  
 Abrasive materials, Flexible support for. C. B. Wattles. No. 926,524; June 29; Sp. p. 7135; Gaz. vol. 143; p. 1260.  
 Abrasive wheel. H. L. Slager. No. 920,199; May 4; Sp. p. 220; Gaz. vol. 142; p. 34.  
 Abrasive wheels, Safety-collar for. D. B. Hyde. No. 927,145; July 6; Sp. p. 928; Gaz. vol. 144; p. 150.  
 Accelerating-controller, Automatic. H. F. Stratton. No. 915,246; Mar. 16; Sp. p. 3295; Gaz. vol. 140; p. 576.  
 Acceleration-controlling device. V. A. Wolcott. No. 928,013; July 13; Sp. p. 2720; Gaz. vol. 144; p. 464.  
 Account-keeping means. A. L. Grayson. No. 914,345; Mar. 2; Sp. p. 1462; Gaz. vol. 140; p. 227.  
 Account-keeping system. D. L. Cline. No. 916,270; Mar. 23; Sp. p. 5304; Gaz. vol. 140; p. 939.  
 Account-register. C. Clundt and J. Reidt. No. 938,214; Oct. 26; Sp. p. 5475; Gaz. vol. 147; p. 936.  
 Account-register, Revolvable. J. E. Benjamin. No. 943,961; Dec. 21; Sp. p. 4141; Gaz. vol. 149; p. 718.  
 Accounting and tagging system. R. Crane. No. 922,672; May 25; Sp. p. 5299; Gaz. vol. 142; p. 936.  
 Accumulator, Hydraulic. A. W. French. No. 941,867; Nov. 30; Sp. p. 7528; Gaz. vol. 148; p. 1266.  
 Acetate of lime, Making. R. W. Erwin. No. 927,135; July 6; Sp. p. 907; Gaz. vol. 144; p. 146.  
 Acetates, Making. H. O. Chute. No. 939,980; Nov. 16; Sp. p. 3379; Gaz. vol. 148; p. 582.  
 Acetone, Manufacture of. A. L. A. Pages and R. P. T. Duchemin. No. 933,107; Sept. 7; Sp. p. 148; Gaz. vol. 146; p. 24.  
 Acetylene-burner. A. Bray. No. 908,732; Jan. 5; Sp. p. 645; Gaz. vol. 138; p. 100.  
 Acetylene-burner. K. Thurnauer. No. 930,574; Aug. 10; Sp. p. 1959; Gaz. vol. 145; p. 345.  
 Acetylene-generating apparatus. A. Davis. No. 940,437; Nov. 16; Sp. p. 4437; Gaz. vol. 148; p. 742.  
 Acetylene-generator. C. R. Jenne. No. 912,572; Feb. 16; Sp. p. 3209; Gaz. vol. 139; p. 575.  
 Acetylene-generator. J. H. Ross. No. 926,610; June 29; Sp. p. 7310; Gaz. vol. 143; p. 1289.  
 Acetylene-generator. J. Zander. No. 940,110; Nov. 16; Sp. p. 3694; Gaz. vol. 148; p. 629.  
 Acetylene-generators, Feeding means for. J. M. Morris. No. 920,607; May 4; Sp. p. 1036; Gaz. vol. 142; p. 169.  
 Acid, Alkyl esters of methylene citric. R. Berendes. No. 921,944; May 18; Sp. p. 3807; Gaz. vol. 142; p. 670.  
 Acid, and glauher salt, Making phosphoric. E. H. Strickler. No. 917,502; Apr. 6; Sp. p. 1067; Gaz. vol. 141; p. 187.  
 Acid, Anhydrid of acyl salicylic. F. Hofmann. No. 922,766; May 25; Sp. p. 5498; Gaz. vol. 142; p. 967.  
 Acid, Apparatus for making sulfuric. A. Gaillard. No. 909,578; Jan. 12; Sp. p. 2315; Gaz. vol. 138; p. 410.  
 Acid, Calcium salt of dibromobenzoic. E. Fischer. No. 917,758; Apr. 13; Sp. p. 1581; Gaz. vol. 141; p. 298.  
 Acid compound of alpha-isatin-anilid, Making sulfurous-. C. Stephan and A. Rahtjen. No. 937,194; Oct. 19; Sp. p. 3316; Gaz. vol. 147; p. 577.  
 Acid, Converting catechin into a catechu-tannic. W. Osborne and H. Schupp. No. 913,426; Feb. 23; Sp. p. 4947; Gaz. vol. 139; p. 885.  
 Acid derivative and making the same, Salicylic. L. Ach and T. Sutter. No. 922,995; May 25; Sp. p. 5967; Gaz. vol. 142; p. 1041.  
 Acid derivative, Guaiacol carbonate sulfo-. A. Einhorn. No. 938,132; Oct. 26; Sp. p. 5300; Gaz. vol. 147; p. 906.  
 Acid, Derivative of aminoarylsarinic. P. Ehrlich and A. Berthelm. No. 937,929; Oct. 26; Sp. p. 4860; Gaz. vol. 147; p. 839.  
 Acid from gas mixtures containing oxides of nitrogen, Obtaining nitric. L. Glaser. No. 921,975; May 18; Sp. p. 3886; Gaz. vol. 142; p. 680.  
 Acid from nickel-chlorid solution, Recovering hydrochloric. H. L. Wells. No. 940,293; Nov. 16; Sp. p. 4067; Gaz. vol. 148; p. 693.  
 Acid, Magnesium salt of dibromobenzoic. E. Fischer. No. 919,335; Apr. 27; Sp. p. 5104; Gaz. vol. 141; p. 855.  
 Acid-making apparatus, Sulfuric. F. J. Falding. No. 932,771; Aug. 31; Sp. p. 6674; Gaz. vol. 145; p. 1145.  
 Acid, Making nitric. F. L. Schmidt. No. 928,545; July 20; Sp. p. 3829; Gaz. vol. 144; p. 672.  
 Acid, Making sulfuric. H. Petersen. No. 908,686; Jan. 5; Sp. p. 560; Gaz. vol. 138; p. 88.  
 Acid, Manufacture, concentration, and simultaneous purification of sulfuric. G. C. de Brialles. No. 928,844; July 20; Sp. p. 4426; Gaz. vol. 144; p. 771.  
 Acid, Manufacturing nitric. F. S. Valentiner. No. 920,224; May 4; Sp. p. 271; Gaz. vol. 142; p. 43.  
 Acid, Manufacturing sulfuric. W. Hallock. No. 930,471; Aug. 10; Sp. p. 1707; Gaz. vol. 145; p. 309.  
 Acid, Mercury salt of para-aminophenylsarinic. W. Grütten. No. 914,408; Mar. 9; Sp. p. 1611; Gaz. vol. 140; p. 274.  
 Acid, Naphthylpyrazolone sulfonic. P. Volkmann. No. 910,437; Jan. 19; Sp. p. 4099; Gaz. vol. 138; p. 735.  
 Acid, New mercury salt of para-aminophenylsarinic. J. Altschul. No. 938,939; Nov. 2; Sp. p. 1072; Gaz. vol. 148; p. 170.  
 Acid, Obtaining chlor-acetic. G. Imbert. No. 935,606; Sept. 28; Sp. p. 5308; Gaz. vol. 146; p. 931.  
 Acid, Official preparation of phosphoric. J. Nicolaidi. No. 914,175; Mar. 2; Sp. p. 1122; Gaz. vol. 140; p. 175.  
 Acid phosphate and the like, Apparatus for handling. J. T. Capers. No. 940,583; Nov. 16; Sp. p. 4748; Gaz. vol. 148; p. 790.  
 Acid, Preparing pure lactic. H. Nördlinger, A. Caroselli, and L. Berg. No. 924,494; June 8; Sp. p. 3014; Gaz. vol. 145; p. 492.  
 Acid, Recovering hydrocyanic. W. Feld. No. 922,409; May 18; Sp. p. 4744; Gaz. vol. 142; p. 823.  
 Acid, Strontium salt of dibromobenzoic. E. Fischer. No. 920,306; May 4; Sp. p. 457; Gaz. vol. 142; p. 70.  
 Acids, Making. J. L. Tufts. No. 930,442; Aug. 10; Sp. p. 1650; Gaz. vol. 145; p. 298.  
 Acids, Manufacture of homologues of para-aminophenylsarinic. L. Benda. No. 913,940; Mar. 2; Sp. p. 591; Gaz. vol. 140; p. 94.  
 Acids, Separating liquid from solid fatty. E. Twitchell. No. 918,612; Apr. 20; Sp. p. 3378; Gaz. vol. 141; p. 612.  
 Acoustic apparatus and method, Mechanically-actuated. M. R. Hutchison. No. 923,048; May 25; Sp. p. 6075; Gaz. vol. 142; p. 1057.  
 Acrobatic purposes, Sphere for. C. F. Harris. No. 942,250; Dec. 7; Sp. p. 476; Gaz. vol. 149; p. 74.  
 Actuating mechanism. W. B. Pearson and E. R. Seward. No. 916,775; Mar. 30; Sp. p. 6293; Gaz. vol. 140; p. 1126.  
 Adapter. H. S. Salt. No. 928,474; July 20; Sp. p. 3693; Gaz. vol. 144; p. 649.  
 Adding and listing machine. J. G. Vincent and N. White. No. 919,656; Apr. 27; Sp. p. 5785; Gaz. vol. 141; p. 995.  
 Adding and listing machine. J. G. Vincent and R. E. Benner. No. 924,118; June 8; Sp. p. 2189; Gaz. vol. 143; p. 366.  
 Adding and listing machine. C. W. Gooch. No. 925,805; June 29; Sp. p. 5703; Gaz. vol. 143; p. 988.  
 Adding and listing machine. L. S. Craighall. No. 926,819; June 29; Sp. p. 6765; Gaz. vol. 143; p. 1193.  
 Adding and number-listing machine. B. Hoskins. No. 933,453; Sept. 7; Sp. p. 938; Gaz. vol. 146; p. 143.  
 Adding and recording machine. D. C. Gray. No. 926,738; July 6; Sp. p. 55; Gaz. vol. 144; p. 9.  
 Adding and subtracting machine. H. A. Brown and B. B. Burks. No. 926,166; June 29; Sp. p. 6452; Gaz. vol. 143; p. 1143.  
 Adding device. J. A. Cheape. No. 924,320; June 8; Sp. p. 2676; Gaz. vol. 143; p. 436.  
 Adding device. C. C. Harris. No. 935,365; Sept. 28; Sp. p. 4812; Gaz. vol. 146; p. 851.  
 Adding-machine. J. G. Vincent. No. 910,749; Jan. 26; Sp. p. 4743; Gaz. vol. 138; p. 861.  
 Adding-machine. C. N. McFarland. No. 911,060; Feb. 2; Sp. p. 75; Gaz. vol. 139; p. 14.  
 Adding-machine. J. G. Vincent. No. 913,860; Mar. 2; Sp. p. 395; Gaz. vol. 140; p. 65.



*Alphabetical list of inventions—Continued.*

- Adding-machine. D. B. Benton. No. 916,411; Mar. 30; Sp. p. 5586; Gaz. vol. 140; p. 1012.  
 Adding-machine. G. N. Hinchman. No. 916,445; Mar. 30; Sp. p. 5648; Gaz. vol. 140; p. 1023.  
 Adding-machine. N. J. Goldfarb. No. 921,539; May 11; Sp. p. 2961; Gaz. vol. 142; p. 509.  
 Adding-machine. W. H. Pike, Jr. No. 922,627; May 25; Sp. p. 5210; Gaz. vol. 142; p. 922.  
 Adding-machine. C. N. McFarland. No. 924,264; June 8; Sp. p. 2560; Gaz. vol. 143; p. 417.  
 Adding-machine. J. C. Vincent. No. 926,151; June 29; Sp. p. 6415; Gaz. vol. 143; p. 1138.  
 Adding-machine. A. R. Jennings. (Reissue.) No. 12,987; July 13; Sp. p. 3169; Gaz. vol. 144; p. 540.  
 Adding-machine. W. J. Kilpatrick. No. 925,981; July 27; Sp. p. 4710; Gaz. vol. 144; p. 845.  
 Adding-machine. C. W. Gooch. No. 931,410; Aug. 17; Sp. p. 3782; Gaz. vol. 145; p. 653.  
 Adding-machine. J. H. Vincent. No. 932,073; Aug. 24; Sp. p. 5215; Gaz. vol. 145; p. 889.  
 Adding-machine. J. H. Ginet, Jr. No. 932,462; Aug. 31; Sp. p. 5975; Gaz. vol. 145; p. 1040.  
 Adding-machine. C. W. Gooch. No. 935,600; Sept. 28; Sp. p. 5293; Gaz. vol. 146; p. 929.  
 Adding-machine. R. L. Burd. No. 936,087; Oct. 5; Sp. p. 1031; Gaz. vol. 147; p. 156.  
 Adding-machine. F. R. McBerty. No. 938,501; Nov. 2; Sp. p. 117; Gaz. vol. 148; p. 19.  
 Adding-machine. C. N. McFarland. No. 940,709; Nov. 23; Sp. p. 5022; Gaz. vol. 148; p. 857.  
 Adding-machine. C. Wales. No. 940,758; Nov. 23; Sp. p. 5133; Gaz. vol. 148; p. 874.  
 Adding-machine actuating mechanism. C. P. Wetmore. No. 938,532; Nov. 2; Sp. p. 211; Gaz. vol. 148; p. 30.  
 Adding-machine and type-writer, mechanism for combining an. H. M. Ferry. No. 920,940; May 11; Sp. p. 1735; Gaz. vol. 142; p. 308.  
 Adding-machine attachment. A. Pentecost. No. 910,848; Jan. 26; Sp. p. 4939; Gaz. vol. 138; p. 892.  
 Adding-machine carriage mechanism. O. C. Kreis, Jr. No. 913,738; Mar. 2; Sp. p. 128; Gaz. vol. 140; p. 22.  
 Adding-machine carriage mechanism. J. G. Vincent. No. 929,050; July 27; Sp. p. 4806; Gaz. vol. 144; p. 870.  
 Adding-machine handle connection. W. H. Pike, Jr. No. 910,853; Jan. 26; Sp. p. 4947; Gaz. vol. 138; p. 893.  
 Adding-machine line and column gage. J. G. Vincent. No. 922,547; May 25; Sp. p. 5044; Gaz. vol. 142; p. 896.  
 Adding-machine ribbon feeding and reversing mechanism. H. Callam. No. 917,246; Apr. 6; Sp. p. 589; Gaz. vol. 141; p. 101.  
 Adding-machine ribbon feeding and reversing mechanism. H. Kuntzler. No. 940,814; Nov. 23; Sp. p. 5261; Gaz. vol. 148; p. 893.  
 Adding-machine stand. A. Hendricks. (Reissue.) No. 12,973; June 15; Sp. p. 4921; Gaz. vol. 143; p. 840.  
 Adding-machines, Keyboard-locking mechanism for. C. N. McFarland. No. 940,708; Nov. 23; Sp. p. 5017; Gaz. vol. 148; p. 857.  
 Adding-machines, Lock for numeral-wheels for. N. White. No. 940,766; Nov. 23; Sp. p. 5158; Gaz. vol. 148; p. 877.  
 Addressing-machine. F. B. Walrod and W. S. May. No. 914,999; Mar. 9; Sp. p. 2764; Gaz. vol. 140; p. 467.  
 Addressing-machine. D. Gestetner. No. 916,434; Mar. 30; Sp. p. 5627; Gaz. vol. 140; p. 1020.  
 Addressing-machine. W. F. Kellett. No. 931,619; Aug. 17; Sp. p. 4182; Gaz. vol. 145; p. 717.  
 Addressing-machine. S. Elliott. No. 935,196; Sept. 28; Sp. p. 4469; Gaz. vol. 146; p. 795.  
 Addressing-machine. T. E. Plater. No. 937,543; Oct. 19; Sp. p. 4081; Gaz. vol. 147; p. 693.  
 Addressing or mailing machine. C. Owens. No. 922,324; May 18; Sp. p. 4570; Gaz. vol. 142; p. 794.  
 Adhesive-applying apparatus. W. N. Moore. No. 911,253; Feb. 2; Sp. p. 463; Gaz. vol. 139; p. 79.  
 Adhesive fluids, Device for supplying. J. T. Windle and R. E. Ollershaw. No. 933,938; Sept. 14; Sp. p. 1986; Gaz. vol. 146; p. 327.  
 Adjustable bit. G. H. Paulus. No. 925,500; June 22; Sp. p. 5032; Gaz. vol. 143; p. 888.  
 Adjustable bolt, Quickly. L. W. Trautner. No. 939,933; Nov. 9; Sp. p. 3266; Gaz. vol. 148; p. 539.  
 Adjustable bracket. N. L. Holcomb. No. 914,047; Mar. 2; Sp. p. 849; Gaz. vol. 140; p. 131.  
 Adjustable bracket. E. B. Craft. No. 921,367; May 11; Sp. p. 2632; Gaz. vol. 142; p. 453.  
 Adjustable bracket. T. Smith. No. 922,204; May 18; Sp. p. 4343; Gaz. vol. 142; p. 756.  
 Adjustable bracket. W. E. Rhodes. No. 935,405; Sept. 28; Sp. p. 4884; Gaz. vol. 146; p. 864.  
 Adjustable bracket. A. J. Schneider. No. 935,416; Sept. 28; Sp. p. 4902; Gaz. vol. 146; p. 867.  
 Adjustable bracket. J. Knappe. No. 941,682; Nov. 30; Sp. p. 7103; Gaz. vol. 148; p. 1201.  
 Adjustable chair. R. Ramsey. No. 940,824; Nov. 23; Sp. p. 5285; Gaz. vol. 148; p. 896.  
 Adjustable chair. A. B. Diss. No. 943,920; Dec. 21; Sp. p. 4065; Gaz. vol. 149; p. 704.  
 Adjustable clamp. E. Buswell and T. Cascaden, Jr. No. 927,942; July 13; Sp. p. 2590; Gaz. vol. 144; p. 441.  
 Adjustable frame. A. Petecore. No. 933,388; Sept. 7; Sp. p. 807; Gaz. vol. 146; p. 125.  
 Adjustable gage. S. F. Atkinson. No. 916,252; Mar. 23; Sp. p. 5276; Gaz. vol. 140; p. 933.  
 Adjustable handle. W. J. Stroud and W. J. Jordan. No. 911,848; Feb. 9; Sp. p. 1607; Gaz. vol. 139; p. 298.  
 Adjustable hanger. O. L. Downing and H. H. Duley. No. 909,769; Jan. 12; Sp. p. 2688; Gaz. vol. 138; p. 475.  
 Adjustable mold. T. G. Johnson. No. 915,863; Mar. 23; Sp. p. 4547; Gaz. vol. 140; p. 808.  
 Adjustable pattern. M. Bogushesky. No. 933,523; Sept. 7; Sp. p. 1163; Gaz. vol. 146; p. 168.  
 Adjustable seat. T. J. Dentz. No. 910,993; Jan. 26; Sp. p. 5210; Gaz. vol. 138; p. 939.  
 Adjustable stand. T. L. Bacon. No. 935,730; Oct. 5; Sp. p. 225; Gaz. vol. 147; p. 36.  
 Adjustable trap. J. H. Brady. No. 934,035; Sept. 14; Sp. p. 2163; Gaz. vol. 146; p. 358.  
 Adjustable ventilator. F. Terramorse. No. 944,831; Dec. 28; Sp. p. 6045; Gaz. vol. 149; p. 1040.  
 Adjustable wrench. O. C. Caldwell. No. 920,536; May 4; Sp. p. 900; Gaz. vol. 142; p. 145.  
 Adjustable wrench and tool. P. Tavernetti. No. 911,629; Feb. 9; Sp. p. 1199; Gaz. vol. 139; p. 227.  
 Adjusting device. J. P. Boyden. No. 925,448; June 22; Sp. p. 4942; Gaz. vol. 143; p. 873.  
 Adjusting mechanism. A. H. Wouters. No. 937,134; Oct. 19; Sp. p. 3184; Gaz. vol. 147; p. 558.  
 Advertisement-displaying apparatus. J. T. Roffy. No. 940,281; Nov. 16; Sp. p. 4067; Gaz. vol. 148; p. 689.  
 Advertising apparatus. W. F. Gill. No. 908,854; Jan. 5; Sp. p. 875; Gaz. vol. 138; p. 138.  
 Advertising apparatus. A. S. Speigel. No. 911,561; Feb. 2; Sp. p. 1031; Gaz. vol. 139; p. 178.  
 Advertising apparatus. C. Newman. No. 921,560; May 11; Sp. p. 3004; Gaz. vol. 142; p. 516.  
 Advertising apparatus. L. U. Cornelius. No. 923,335; June 1; Sp. p. 521; Gaz. vol. 143; p. 75.  
 Advertising apparatus. C. F. De Soria. No. 932,725; Aug. 31; Sp. p. 6558; Gaz. vol. 145; p. 1129.  
 Advertising apparatus. H. F. Stowell. No. 935,427; Sept. 28; Sp. p. 4924; Gaz. vol. 146; p. 870.  
 Advertising apparatus. A. Weismann. No. 942,021; Nov. 30; Sp. p. 7816; Gaz. vol. 148; p. 1317.  
 Advertising apparatus. J. V. Casey. No. 943,179; Dec. 14; Sp. p. 2465; Gaz. vol. 149; p. 419.  
 Advertising apparatus. W. J. Rider. No. 943,893; Dec. 21; Sp. p. 3998; Gaz. vol. 149; p. 693.  
 Advertising apparatus, Automatic movable. F. Giroud. No. 917,584; Apr. 6; Sp. p. 1218; Gaz. vol. 141; p. 213.  
 Advertising apparatus, Electric. G. Bandieri. No. 922,836; May 25; Sp. p. 5647; Gaz. vol. 142; p. 990.  
 Advertising apparatus for cars, &c. J. Crane, Jr. No. 932,764; Aug. 31; Sp. p. 6643; Gaz. vol. 145; p. 1143.  
 Advertising appliance. G. Siff. No. 924,111; June 8; Sp. p. 2174; Gaz. vol. 143; p. 363.  
 Advertising-automaton. D. F. Brown. No. 908,734; Jan. 5; Sp. p. 646; Gaz. vol. 138; p. 101.  
 Advertising-automaton. D. F. Brown. No. 928,628; July 20; Sp. p. 4013; Gaz. vol. 144; p. 699.  
 Advertising-card. W. O. Holt. No. 940,316; Nov. 16; Sp. p. 4154; Gaz. vol. 148; p. 701.  
 Advertising device. W. K. Salter and C. A. S. Hutchinson. No. 908,702; Jan. 5; Sp. p. 581; Gaz. vol. 138; p. 90.  
 Advertising device. C. D. Stoll. No. 911,915; Feb. 9; Sp. p. 1738; Gaz. vol. 139; p. 321.  
 Advertising device. J. W. Phelps. No. 913,048; Feb. 23; Sp. p. 4186; Gaz. vol. 139; p. 758.  
 Advertising device. H. P. Turner. No. 913,994; Mar. 2; Sp. p. 715; Gaz. vol. 140; p. 113.  
 Advertising device. G. M. Guerrant and T. L. Sydnor. No. 914,656; Mar. 9; Sp. p. 2088; Gaz. vol. 140; p. 355.  
 Advertising device. H. V. Good. No. 917,587; Apr. 6; Sp. p. 1225; Gaz. vol. 141; p. 214.  
 Advertising device. S. Richard and F. Gluck. No. 918,369; Apr. 13; Sp. p. 2849; Gaz. vol. 141; p. 504.  
 Advertising device. E. R. Lacomme. No. 918,868; Apr. 20; Sp. p. 3977; Gaz. vol. 141; p. 699.  
 Advertising device. J. R. Warren and G. W. Packard, Jr. No. 919,096; Apr. 20; Sp. p. 4417; Gaz. vol. 141; p. 772.  
 Advertising device. R. Hagen. No. 927,966; July 13; Sp. p. 2641; Gaz. vol. 144; p. 449.  
 Advertising device. C. C. Bishop. No. 930,342; Aug. 10; Sp. p. 1451; Gaz. vol. 145; p. 265.  
 Advertising device. D. J. Whitaker. No. 930,583; Aug. 10; Sp. p. 1974; Gaz. vol. 145; p. 347.  
 Advertising device. M. H. Singer. No. 931,509; Aug. 17; Sp. p. 3970; Gaz. vol. 145; p. 685.  
 Advertising device. A. J. Thomas. No. 934,856; Sept. 21; Sp. p. 3783; Gaz. vol. 146; p. 656.  
 Advertising device. T. Kharas. No. 935,993; Oct. 5; Sp. p. 841; Gaz. vol. 147; p. 125.  
 Advertising device. C. A. Myers. No. 936,344; Oct. 12; Sp. p. 1540; Gaz. vol. 147; p. 264.  
 Advertising device. J. E. Dowling. No. 938,225; Oct. 26; Sp. p. 5503; Gaz. vol. 147; p. 940.  
 Advertising device. C. H. Collins. No. 941,012; Nov. 23; Sp. p. 5671; Gaz. vol. 148; p. 958.  
 Advertising device. W. F. Sweet. No. 943,714; Dec. 21; Sp. p. 3641; Gaz. vol. 149; p. 632.  
 Advertising device, Automatic. J. K. Hosaka. No. 930,963; Aug. 10; Sp. p. 2774; Gaz. vol. 145; p. 471.  
 Advertising device, Automatic dental. A. Lavallée and G. J. Constantineau. No. 932,875; Aug. 31; Sp. p. 6856; Gaz. vol. 145; p. 1177.  
 Advertising device, Automatic display. H. Hake. No. 917,594; Apr. 6; Sp. p. 1234; Gaz. vol. 141; p. 216.  
 Advertising device, Automobile. G. Heales and W. R. Neall. No. 926,186; June 29; Sp. p. 6507; Gaz. vol. 143; p. 1151.  
 Advertising device Coin-controlled. J. H. Montgomery. No. 937,318; Oct. 19; Sp. p. 3567; Gaz. vol. 147; p. 617.

*Alphabetical list of inventions—Continued.*

- Advertising device for paints, calcimines, &c. H. W. Pearson. No. 926,436; June 29; Sp. p. 6994; Gaz. vol. 143; p. 1232.  
 Advertising hat-rack. B. Klum. No. 938,591; Nov. 2; Sp. p. 339; Gaz. vol. 148; p. 50.  
 Advertising-machine. F. W. Remer. No. 931,218; Aug. 17; Sp. p. 3369; Gaz. vol. 145; p. 585.  
 Advertising-machine. J. W. Silver. No. 933,272; Sept. 7; Sp. p. 558; Gaz. vol. 146; p. 85.  
 Advertising medium. B. F. Hesson. Jr. No. 935,502; Sept. 28; Sp. p. 5064; Gaz. vol. 146; p. 894.  
 Advertising novelty. R. Naumann. No. 912,402; Feb. 16; Sp. p. 2852; Gaz. vol. 139; p. 518.  
 Advertising novelty. L. Feist. No. 943,776; Dec. 21; Sp. p. 3756; Gaz. vol. 149; p. 654.  
 Advertising novelty and toy combination. F. G. Fawkes. No. 918,835; Apr. 20; Sp. p. 3899; Gaz. vol. 141; p. 687.  
 Advertising or display apparatus. A. Quentin. No. 943,994; Dec. 21; Sp. p. 4234; Gaz. vol. 149; p. 729.  
 Advertising or display apparatus, Automatic. H. M. Schutz. No. 911,618; Feb. 9; Sp. p. 1178; Gaz. vol. 139; p. 223.  
 Advertising plates, &c., Device for moving. J. Albig. No. 914,217; Mar. 2; Sp. p. 1197; Gaz. vol. 140; p. 188.  
 Advertising-shade for incandescent lamps. J. de Yongh. No. 928,572; July 20; Sp. p. 3900; Gaz. vol. 144; p. 681.  
 Advertising-sign. L. H. Deaner. No. 910,650; Jan. 26; Sp. p. 4561; Gaz. vol. 138; p. 830.  
 Advertising-vehicle. R. C. Hahnke. No. 925,173; June 15; Sp. p. 4419; Gaz. vol. 143; p. 754.  
 Aerating-machine. H. Pearce. No. 922,183; May 18; Sp. p. 4289; Gaz. vol. 142; p. 748.  
 Aerator. L. E. Leach. No. 937,159; Oct. 19; Sp. p. 3245; Gaz. vol. 147; p. 566.  
 Aerial device. L. Rupp. No. 927,815; July 13; Sp. p. 2315; Gaz. vol. 144; p. 399.  
 Aerial elevator. J. A. Scott. No. 943,572; Dec. 14; Sp. p. 3289; Gaz. vol. 149; p. 554.  
 Aerial-flight chute. A. Feiler. No. 925,764; June 22; Sp. p. 5615; Gaz. vol. 143; p. 974.  
 Aerial machine. J. J. Rekar. No. 922,952; May 25; Sp. p. 5898; Gaz. vol. 142; p. 1028.  
 Aerial navigating apparatus. J. Bernard. No. 910,488; Jan. 26; Sp. p. 4218; Gaz. vol. 138; p. 776.  
 Aerial navigating apparatus. L. Felker. No. 942,629; Dec. 7; Sp. p. 1245; Gaz. vol. 149; p. 204.  
 Aerial navigating device, Skid for. D. D. Wells. No. 935,075; Sept. 28; Sp. p. 4230; Gaz. vol. 146; p. 757.  
 Aerial navigation. C. J. Lake. No. 918,336; Apr. 13; Sp. p. 2788; Gaz. vol. 141; p. 493.  
 Aerial navigation. J. S. Lettis. No. 937,250; Oct. 19; Sp. p. 3446; Gaz. vol. 147; p. 595.  
 Aerial navigation. J. Means. No. 943,120; Dec. 14; Sp. p. 2362; Gaz. vol. 149; p. 401.  
 Aerial railway. F. A. Dahlin and E. Carlson. No. 935,780; Oct. 5; Sp. p. 357; Gaz. vol. 147; p. 54.  
 Aerial ropeway. W. H. Henry. No. 909,794; Jan. 12; Sp. p. 2740; Gaz. vol. 138; p. 483.  
 Aerial tramway, Marine. G. W. Jackson. No. 916,158; Mar. 23; Sp. p. 5100; Gaz. vol. 140; p. 903.  
 Aerial vessel. C. J. Lake. No. 913,517; Feb. 23; Sp. p. 5122; Gaz. vol. 139; p. 915.  
 Aerial vessel. J. Suter. No. 941,896; Nov. 30; Sp. p. 7586; Gaz. vol. 148; p. 1277.  
 Aerodart. C. R. Bannihir. No. 931,026; Aug. 17; Sp. p. 2941; Gaz. vol. 145; p. 520.  
 Aerodrome. H. A. Orme. No. 926,593; June 29; Sp. p. 7274; Gaz. vol. 143; p. 1284.  
 Aerodrome. W. Sinclair. No. 931,966; Aug. 24; Sp. p. 4983; Gaz. vol. 145; p. 853.  
 Aeromotor. S. H. Gilson. No. 933,548; Sept. 7; Sp. p. 1206; Gaz. vol. 146; p. 176.  
 Aeronautic apparatus. G. A. Metcalf. No. 908,794; Jan. 5; Sp. p. 756; Gaz. vol. 138; p. 119.  
 Aeroplane. H. Mueller. No. 914,969; Mar. 9; Sp. p. 2721; Gaz. vol. 140; p. 458.  
 Aeroplane. W. S. Romme. No. 920,085; Apr. 27; Sp. p. 6689; Gaz. vol. 141; p. 1136.  
 Aeroplane. J. Potts. No. 923,075; May 25; Sp. p. 6147; Gaz. vol. 142; p. 1066.  
 Aeroplane. J. H. Rogers. No. 924,833; June 15; Sp. p. 3737; Gaz. vol. 143; p. 639.  
 Aeroplane. J. Seiler. No. 927,605; July 13; Sp. p. 1806; Gaz. vol. 144; p. 330.  
 Aeroplane. O. Heeren. No. 929,217; July 27; Sp. p. 5202; Gaz. vol. 144; p. 923.  
 Aeroplane. A. W. Reinhoel. No. 935,862; Oct. 5; Sp. p. 565; Gaz. vol. 147; p. 81.  
 Aeroplane. C. W. Cheney. No. 936,303; Oct. 12; Sp. p. 1438; Gaz. vol. 147; p. 250.  
 Aeroplane. D. S. Foster. No. 937,587; Oct. 19; Sp. p. 4157; Gaz. vol. 147; p. 708.  
 Aeroplane. S. W. Applegate. No. 939,651; Nov. 9; Sp. p. 2661; Gaz. vol. 148; p. 440.  
 Aeroplane and hydroplane. W. R. Turnbull. No. 934,771; Sept. 21; Sp. p. 3609; Gaz. vol. 146; p. 629.  
 Aeroplane, Gyroscopic. S. S. Williams. No. 942,691; Dec. 7; Sp. p. 1361; Gaz. vol. 149; p. 243.  
 Aeroplane, Motor-driven. A. E. Mueller. No. 937,381; Oct. 19; Sp. p. 3712; Gaz. vol. 147; p. 637.  
 Agar-agar-cascara product. A. Schmidt. No. 943,163; Dec. 14; Sp. p. 2442; Gaz. vol. 149; p. 415.  
 Agglomerating-machine. O. Crochet. No. 938,217; Oct. 26; Sp. p. 5485; Gaz. vol. 147; p. 937.  
 Agitator. D. H. Sherman. No. 912,628; Feb. 16; Sp. p. 3325; Gaz. vol. 139; p. 595.  
 Agitator. W. A. Neill. No. 915,372; Mar. 16; Sp. p. 3532; Gaz. vol. 140; p. 617.  
 Agitator. F. E. Goldsmith. No. 939,905; Nov. 9; Sp. p. 3202; Gaz. vol. 148; p. 528.  
 Agricultural implement. A. C. Anderson. No. 908,721; Jan. 5; Sp. p. 623; Gaz. vol. 138; p. 97.  
 Agricultural implement. M. Konter. No. 910,927; Jan. 26; Sp. p. 5087; Gaz. vol. 138; p. 917.  
 Agricultural implement. E. Weerts. No. 915,814; Mar. 23; Sp. p. 4458; Gaz. vol. 140; p. 791.  
 Agricultural implement. W. Wright. No. 916,087; Mar. 23; Sp. p. 4969; Gaz. vol. 140; p. 880.  
 Agricultural implement. C. Schardt. No. 916,202; Mar. 23; Sp. p. 5177; Gaz. vol. 140; p. 917.  
 Agricultural implement. J. Horinek. No. 916,868; Mar. 30; Sp. p. 6475; Gaz. vol. 140; p. 1157.  
 Agricultural implement. L. Battyany, L. Hlavacs, and M. Kota. No. 917,236; Apr. 6; Sp. p. 559; Gaz. vol. 141; p. 98.  
 Agricultural implement. A. C. Lindgren. No. 925,926; June 22; Sp. p. 5956; Gaz. vol. 143; p. 1028.  
 Agricultural implement. W. L. Paul. No. 928,690; July 20; Sp. p. 4136; Gaz. vol. 144; p. 720.  
 Agricultural implement. A. C. Nelson. No. 930,784; Aug. 10; Sp. p. 2385; Gaz. vol. 145; p. 412.  
 Agricultural implement. E. M. Newell. No. 933,573; Sept. 7; Sp. p. 1247; Gaz. vol. 146; p. 184.  
 Agricultural implement. W. H. Rice. No. 934,934; Sept. 21; Sp. p. 3942; Gaz. vol. 146; p. 684.  
 Agricultural implement. M. Szarka. No. 937,485; Oct. 19; Sp. p. 3961; Gaz. vol. 147; p. 672.  
 Agricultural implement. W. B. Estis. No. 939,820; Nov. 9; Sp. p. 3020; Gaz. vol. 148; p. 498.  
 Agricultural-implement riding attachment. D. Spensley. No. 918,386; Apr. 13; Sp. p. 2888; Gaz. vol. 141; p. 510.  
 Agricultural implements, Draft appliance for. A. Hartman. No. 929,424; July 27; Sp. p. 5649; Gaz. vol. 144; p. 991.  
 Agricultural implements, Journal for. A. C. Dittmar. No. 941,191; Nov. 23; Sp. p. 6073; Gaz. vol. 148; p. 1019.  
 Agricultural implements, Soil-working attachment for. B. F. Luke. No. 923,057; May 25; Sp. p. 6107; Gaz. vol. 142; p. 1061.  
 Agricultural machine. L. E. Roby. No. 941,465; Nov. 30; Sp. p. 6666; Gaz. vol. 148; p. 1130.  
 Agricultural machine for rolling, mowing, and other similar operations. G. H. Colt. No. 941,309; Nov. 23; Sp. p. 6312; Gaz. vol. 148; p. 1056.  
 Agricultural-machine seat. G. F. Danielson. No. 909,874; Jan. 19; Sp. p. 2906; Gaz. vol. 138; p. 541.  
 Agricultural-machine-seat-adjusting mechanism. J. Burd. No. 937,922; Oct. 26; Sp. p. 4843; Gaz. vol. 147; p. 837.  
 Agricultural purposes, Spiked roller for. R. Nackle. No. 943,989; Dec. 21; Sp. p. 4216; Gaz. vol. 149; p. 727.  
 Agricultural shovel. J. N. Parker. No. 929,479; July 27; Sp. p. 5751; Gaz. vol. 144; p. 1009.  
 Agricultural tool, Hand. P. H. Withington. No. 919,799; Apr. 27; Sp. p. 6062; Gaz. vol. 141; p. 1043.  
 Aim-recording apparatus. J. B. Bolitho. No. 926,541; June 29; Sp. p. 7168; Gaz. vol. 143; p. 1266.  
 Air-accumulator. W. F. Merryman. No. 916,886; Mar. 30; Sp. p. 6507; Gaz. vol. 140; p. 1162.  
 Air and controlling its temperature, Machine for humidifying and cleansing. D. P. Gosline. No. 916,146; Mar. 23; Sp. p. 5077; Gaz. vol. 140; p. 899.  
 Air and gas compressor. F. E. Norton. No. 912,975; Feb. 16; Sp. p. 4031; Gaz. vol. 139; p. 707.  
 Air and gas mixer. C. A. Forsberg. No. 930,656; Aug. 10; Sp. p. 2127; Gaz. vol. 145; p. 371.  
 Air and gas mixer and controller, Combined. J. H. Martindale. No. 918,879; Apr. 20; Sp. p. 3996; Gaz. vol. 141; p. 702.  
 Air and other gases, Apparatus for electrically treating. J. H. Bridge. No. 935,457; Sept. 28; Sp. p. 4982; Gaz. vol. 146; p. 880.  
 Air and other gases, Apparatus for separating heavy particles from. W. J. Baldwin. No. 911,802; Feb. 9; Sp. p. 1520; Gaz. vol. 139; p. 284.  
 Air and steam coupling, Automatic. J. V. Robinson. No. 937,961; Oct. 26; Sp. p. 4916; Gaz. vol. 147; p. 849.  
 Air and vacuum controlling device. H. K. and I. Z. Kriebel. No. 924,617; June 8; Sp. p. 3276; Gaz. vol. 143; p. 533.  
 Air, Apparatus for regenerating vitiated. G. F. Jaubert. No. 928,978; July 27; Sp. p. 4704; Gaz. vol. 144; p. 844.  
 Air, Apparatus for separating oxygen from. J. E. Johnson, Jr. No. 933,462; Sept. 7; Sp. p. 975; Gaz. vol. 146; p. 147.  
 Air-brake. E. B. Powers. No. 918,470; Apr. 13; Sp. p. 3056; Gaz. vol. 141; p. 537.  
 Air-brake. F. B. Rae. No. 920,389; May 4; Sp. p. 614; Gaz. vol. 142; p. 97.  
 Air-brake. A. J. Wisner. No. 927,016; July 6; Sp. p. 647; Gaz. vol. 144; p. 105.  
 Air-brake. W. V. Turner and C. C. Farmer. No. 931,237; Aug. 17; Sp. p. 3414; Gaz. vol. 145; p. 592.  
 Air-brake. L. E. Morel. No. 937,839; Oct. 26; Sp. p. 4666; Gaz. vol. 147; p. 808.  
 Air-brake-adjusting device for loaded and empty cars. A. L. Goodknight. No. 943,778; Dec. 21; Sp. p. 3759; Gaz. vol. 149; p. 654.  
 Air-brake apparatus. J. O. Dodge. No. 911,953; Feb. 9; Sp. p. 1813; Gaz. vol. 139; p. 334.  
 Air-brake apparatus. H. M. P. Murphy. No. 912,317; Feb. 16; Sp. p. 2665; Gaz. vol. 139; p. 489.  
 Air-brake apparatus. H. M. P. Murphy. No. 912,712; Feb. 16; Sp. p. 3498; Gaz. vol. 139; p. 624.  
 Air-brake apparatus. H. M. P. Murphy. No. 912,714; Feb. 16; Sp. p. 3509; Gaz. vol. 139; p. 625.



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- Air-brake apparatus. H. M. P. Murphy. No. 912,715; Feb. 16; Sp. p. 3522; Gaz. vol. 139; p. 625.  
 Air-brake apparatus. H. M. P. Murphy. No. 912,716; Feb. 16; Sp. p. 3530; Gaz. vol. 139; p. 626.  
 Air-brake apparatus. H. M. P. Murphy. No. 912,717; Feb. 16; Sp. p. 3539; Gaz. vol. 139; p. 626.  
 Air-brake apparatus. H. M. P. Murphy. No. 912,973; Feb. 16; Sp. p. 4025; Gaz. vol. 139; p. 706.  
 Air-brake apparatus. H. F. Bickel. No. 915,155; Mar. 16; Sp. p. 3113; Gaz. vol. 140; p. 546.  
 Air-brake apparatus. L. L. Hosack, A. H. Geltz, and W. W. McBane. No. 930,379; Aug. 10; Sp. p. 1530; Gaz. vol. 145; p. 277.  
 Air-brake apparatus, Automatic. J. O. Dodge. No. 925,566; June 22; Sp. p. 5162; Gaz. vol. 143; p. 910.  
 Air-brake apparatus out-off or release. S. P. Cota. No. 943,769; Dec. 21; Sp. p. 3740; Gaz. vol. 149; p. 651.  
 Air-brake appliance, Automatic. J. A. and L. F. Couch. No. 924,742; June 15; Sp. p. 3548; Gaz. vol. 143; p. 609.  
 Air-brake appliance, Safety. T. W. Ash. No. 941,295; Nov. 23; Sp. p. 6290; Gaz. vol. 148; p. 1052.  
 Air-brake appliance, Safety railway-truck. J. L. Bering. No. 932,675; Aug. 31; Sp. p. 6459; Gaz. vol. 145; p. 1114.  
 Air-brake attachment. T. J. Crawford. No. 908,648; Jan. 5; Sp. p. 471; Gaz. vol. 138; p. 74.  
 Air-brake automatic coupling. G. Ripma. No. 914,512; Mar. 9; Sp. p. 1809; Gaz. vol. 140; p. 309.  
 Air-brake coupling, Automatic. W. E. Campbell and H. T. Inghram. No. 941,348; Nov. 23; Sp. p. 6387; Gaz. vol. 148; p. 1068.  
 Air-brake, Fluid-pressure. W. M. Austin. No. 915,724; Mar. 23; Sp. p. 4289; Gaz. vol. 140; p. 764.  
 Air-brake hose, Device for coupling, uncoupling, and manipulating. C. Geisking. No. 916,858; Mar. 30; Sp. p. 6457; Gaz. vol. 140; p. 1153.  
 Air-brake mechanism, Supplemental. A. Doan. No. 934,293; Sept. 14; Sp. p. 2676; Gaz. vol. 146; p. 445.  
 Air-brake-pipe coupling. J. E. Brodie. No. 923,112; May 25; Sp. p. 6220; Gaz. vol. 142; p. 1078.  
 Air-brake piston. J. E. Meek. No. 924,087; June 8; Sp. p. 2133; Gaz. vol. 143; p. 336.  
 Air-brake regulator. C. J. Doerr. No. 939,896; Nov. 9; Sp. p. 3176; Gaz. vol. 148; p. 524.  
 Air-brake retaining-valve. J. F. Spiegel. No. 939,928; Nov. 9; Sp. p. 3255; Gaz. vol. 148; p. 536.  
 Air-brake-retaining valve, Automatic. J. M. Carter. No. 916,669; Mar. 30; Sp. p. 6118; Gaz. vol. 140; p. 1096.  
 Air-brake-setting appliance. A. Gale and D. M. Lilley. No. 918,435; Apr. 13; Sp. p. 2988; Gaz. vol. 141; p. 525.  
 Air-brake system. H. W. Ley. No. 909,809; Jan. 12; Sp. p. 2766; Gaz. vol. 138; p. 488.  
 Air-brake system. G. Macloskie. No. 910,402; Jan. 19; Sp. p. 4023; Gaz. vol. 138; p. 722.  
 Air-brake system. G. Macloskie, Jr. No. 912,269; Feb. 9; Sp. p. 2532; Gaz. vol. 139; p. 435.  
 Air-brake system. A. I. Perry. No. 913,972; Mar. 2; Sp. p. 664; Gaz. vol. 140; p. 106.  
 Air-brake system. J. S. Barner. No. 915,654; Mar. 16; Sp. p. 4125; Gaz. vol. 140; p. 713.  
 Air-brake system. G. Macloskie. No. 917,091; Apr. 6; Sp. p. 262; Gaz. vol. 141; p. 48.  
 Air-brake system. J. Hughes. No. 918,675; Apr. 20; Sp. p. 3559; Gaz. vol. 141; p. 634.  
 Air-brake system. E. J. Newton. No. 922,318; May 18; Sp. p. 4552; Gaz. vol. 142; p. 791.  
 Air-brake system. E. M. Swift. No. 931,234; Aug. 17; Sp. p. 3410; Gaz. vol. 145; p. 591.  
 Air-brake system. G. E. Congdon. No. 936,415; Oct. 12; Sp. p. 1708; Gaz. vol. 147; p. 288.  
 Air-brake system. G. Macloskie. No. 937,452; Oct. 19; Sp. p. 3888; Gaz. vol. 147; p. 661.  
 Air-brake system. J. W. Hicks. No. 940,314; Nov. 16; Sp. p. 4150; Gaz. vol. 148; p. 700.  
 Air-brake-system angle-cock. S. H. Dunning. No. 911,811; Feb. 9; Sp. p. 1544; Gaz. vol. 139; p. 287.  
 Air-brake system, Automatic. G. Macloskie. No. 919,609; Apr. 27; Sp. p. 5696; Gaz. vol. 141; p. 980.  
 Air-brake systems, Angle-cock support and lock for. W. E. Sharp. No. 927,686; July 13; Sp. p. 2053; Gaz. vol. 144; p. 356.  
 Air-brake systems, Angle-cock support and lock for. W. E. Sharp. (Reissue). No. 13,629; Oct. 26; Sp. p. 6033; Gaz. vol. 147; p. 1019.  
 Air-brake systems, Automatic bleeder for. E. V. Conley, 2d. No. 940,676; Nov. 23; Sp. p. 4958; Gaz. vol. 148; p. 846.  
 Air-brake systems, Automatic slack-adjuster for. U. S. Smith. No. 918,922; Apr. 20; Sp. p. 4094; Gaz. vol. 141; p. 718.  
 Air-brakes, Triple valve for. W. B. Mann. No. 943,983; Dec. 21; Sp. p. 4189; Gaz. vol. 149; p. 725.  
 Air, Centrifugal apparatus for separating solid matters from. A. Lebrasseur. No. 928,673; July 20; Sp. p. 4103; Gaz. vol. 144; p. 715.  
 Air-cleaning system. W. C. Mayo and J. Houlehan. No. 918,574; Apr. 20; Sp. p. 3287; Gaz. vol. 141; p. 598.  
 Air, Compressing. W. K. Richardson. No. 916,019; Mar. 23; Sp. p. 4847; Gaz. vol. 140; p. 858.  
 Air-compressor. O. P. Oraker. No. 912,882; Feb. 16; Sp. p. 3846; Gaz. vol. 139; p. 678.  
 Air-compressor. G. Foll. No. 915,759; Mar. 23; Sp. p. 4362; Gaz. vol. 140; p. 775.  
 Air-compressor. H. Wilcox and F. Brabson. No. 915,815; Mar. 23; Sp. p. 4459; Gaz. vol. 140; p. 792.  
 Air-compressor. L. A. Gates. No. 916,857; Mar. 30; Sp. p. 6455; Gaz. vol. 140; p. 1153.  
 Air-compressor. J. B. Lampman and A. Kittelberger. No. 926,124; June 29; Sp. p. 6353; Gaz. vol. 143; p. 1128.  
 Air-compressor. T. O. Perry. No. 927,162; July 6; Sp. p. 958; Gaz. vol. 144; p. 155.  
 Air-compressor. T. O. Perry. No. 928,326; July 20; Sp. p. 3415; Gaz. vol. 144; p. 600.  
 Air-compressor. F. W. Gardner. No. 936,114; Oct. 5; Sp. p. 1080; Gaz. vol. 147; p. 165.  
 Air-compressor. J. H. Dailey. No. 936,609; Oct. 12; Sp. p. 2132; Gaz. vol. 147; p. 353.  
 Air-compressor. E. J. Rohrbacher. No. 936,813; Oct. 12; Sp. p. 2527; Gaz. vol. 147; p. 422.  
 Air-compressor. A. Neumann. No. 936,932; Oct. 12; Sp. p. 2762; Gaz. vol. 147; p. 461.  
 Air-compressor. F. A. Preuss. No. 939,314; Nov. 9; Sp. p. 1915; Gaz. vol. 148; p. 326.  
 Air-compressor. W. R. Thompson. No. 940,751; Nov. 23; Sp. p. 5118; Gaz. vol. 148; p. 872.  
 Air-compressor. V. Olsen and F. Schroder. No. 941,646; Nov. 30; Sp. p. 7024; Gaz. vol. 148; p. 1188.  
 Air-compressor. A. T. Newell. No. 942,455; Dec. 7; Sp. p. 894; Gaz. vol. 149; p. 144.  
 Air-compressor and driving means therefor. M. C. Sharpneck. No. 924,280; June 8; Sp. p. 2587; Gaz. vol. 143; p. 422.  
 Air compressor and intercooler, Combined. J. G. Leyner. No. 938,004; Oct. 26; Sp. p. 5009; Gaz. vol. 147; p. 863.  
 Air-compressor, Automatic. J. Grüniger. No. 922,694; May 25; Sp. p. 5350; Gaz. vol. 142; p. 944.  
 Air-compressor automatic governor. C. Norland. No. 908,692; Jan. 5; Sp. p. 553; Gaz. vol. 138; p. 86.  
 Air-compressor, Compound. A. H. Meech. No. 919,909; Apr. 27; Sp. p. 6318; Gaz. vol. 141; p. 1080.  
 Air-compressor, Compound. N. A. Christensen. No. 938,742; Nov. 2; Sp. p. 629; Gaz. vol. 148; p. 100.  
 Air-compressor, Electric. A. J. Pocock and R. E. Allgire. No. 918,194; Apr. 13; Sp. p. 2495; Gaz. vol. 141; p. 446.  
 Air-compressor governing mechanism. R. H. Rice. No. 919,953; Apr. 27; Sp. p. 6397; Gaz. vol. 141; p. 1093.  
 Air-compressor governor. J. H. Kloer and D. B. Leavell. No. 934,323; Sept. 14; Sp. p. 2731; Gaz. vol. 146; p. 454.  
 Air compressor or blower. G. W. and W. H. Leiman. No. 925,203; June 15; Sp. p. 4479; Gaz. vol. 143; p. 765.  
 Air compressor or pump. J. Delbridge. No. 941,627; Nov. 30; Sp. p. 6990; Gaz. vol. 148; p. 1183.  
 Air-compressor, Variable-volume. M. Kurth. No. 909,427; Jan. 12; Sp. p. 2014; Gaz. vol. 138; p. 358.  
 Air-conditioning machine. D. P. Gosline. No. 916,147; Mar. 23; Sp. p. 5081; Gaz. vol. 140; p. 899.  
 Air conduit, Hot-. W. W. Hanold. No. 913,284; Feb. 23; Sp. p. 4662; Gaz. vol. 139; p. 836.  
 Air conveyer, Fresh-. E. E. Lamb. No. 941,370; Nov. 30; Sp. p. 6448; Gaz. vol. 148; p. 1098.  
 Air-cooler. C. F. Martin. No. 919,611; Apr. 27; Sp. p. 5702; Gaz. vol. 141; p. 981.  
 Air-cooling apparatus. W. A. Merralls. No. 923,437; June 1; Sp. p. 727; Gaz. vol. 143; p. 108.  
 Air-cooling apparatus. J. E. Gloekler. No. 928,959; July 27; Sp. p. 4667; Gaz. vol. 144; p. 837.  
 Air-cooling apparatus. J. E. Gloekler. No. 944,086; Dec. 21; Sp. p. 4413; Gaz. vol. 149; p. 760.  
 Air-coupling, Automatic. A. E. Squyers. No. 929,511; July 27; Sp. p. 5805; Gaz. vol. 144; p. 1019.  
 Air-currents, Means for observing and separating heavy objects from dust-laden. D. Fogarty. No. 944,779; Dec. 28; Sp. p. 5927; Gaz. vol. 149; p. 1022.  
 Air-cushion seat. D. B. O'Kelly. No. 936,934; Oct. 12; Sp. p. 2764; Gaz. vol. 147; p. 462.  
 Air, Device for treating the human body with heated. D. Tyrnauer. No. 911,185; Feb. 2; Sp. p. 316; Gaz. vol. 139; p. 56.  
 Air, Distributor for apparatus for carbureting. A. A. Louis. No. 932,150; Aug. 24; Sp. p. 5369; Gaz. vol. 145; p. 915.  
 Air-drier for pneumatic lines. J. L. Lamb and T. C. Sheehan. No. 917,619; Apr. 6; Sp. p. 1277; Gaz. vol. 141; p. 225.  
 Air-drying method and apparatus. D. Baker. No. 926,972; July 6; Sp. p. 552; Gaz. vol. 144; p. 90.  
 Air-engine. C. J. Lake. No. 917,317; Apr. 6; Sp. p. 739; Gaz. vol. 141; p. 126.  
 Air-engine. A. E. Smith. No. 920,202; May 4; Sp. p. 226; Gaz. vol. 142; p. 35.  
 Air-expanding means, Compressed-. R. S. Cates. No. 912,647; Feb. 16; Sp. p. 3349; Gaz. vol. 139; p. 601.  
 Air, Extracting nitrogen from. O. P. Hurford. No. 923,846; June 8; Sp. p. 1686; Gaz. vol. 143; p. 280.  
 Air for purposes of ventilation, Apparatus for distributing compressed. H. Arndt and A. Nürnberg. No. 922,236; May 18; Sp. p. 4411; Gaz. vol. 142; p. 766.  
 Air from steam-heating installations, Apparatus for withdrawing the. A. Scholl. No. 910,588; Jan. 26; Sp. p. 4441; Gaz. vol. 138; p. 810.  
 Air, gas, &c., Device for drying. O. Touzinsky. No. 913,325; Feb. 23; Sp. p. 4755; Gaz. vol. 139; p. 851.  
 Air-governor, Automatic. L. W. Baker. No. 930,120; Aug. 3; Sp. p. 1054; Gaz. vol. 145; p. 169.  
 Air-heater. A. Mathis. No. 909,632; Jan. 12; Sp. p. 2422; Gaz. vol. 138; p. 429.  
 Air-heater. G. L. Bryant. No. 941,756; Nov. 30; Sp. p. 7280; Gaz. vol. 148; p. 1227.  
 Air heating and circulating system. C. H. Smith. No. 930,424; Aug. 10; Sp. p. 1613; Gaz. vol. 145; p. 292.  
 Air heating and discharging device, Electric. L. A. Siebert. No. 922,531; May 25; Sp. p. 5013; Gaz. vol. 142; p. 891.  
 Air in subways, Apparatus for purifying the. J. Ring. No. 922,953; May 25; Sp. p. 5900; Gaz. vol. 142; p. 1028.  
 Air-inlet and beer-outlet bung-hole apparatus. J. H. Flach, L. Becker, and J. P. Paulson. No. 911,225; Feb. 2; Sp. p. 397; Gaz. vol. 139; p. 69.



*Alphabetical list of inventions—Continued.*

- Air inlet, Fresh-. J. Levy and E. L. Young. No. 926,705; June 29; Sp. p. 7490; Gaz. vol. 143; p. 1320.  
 Air inlet, Fresh-. E. B. Henry. No. 938,145; Oct. 26; Sp. p. 5324; Gaz. vol. 147; p. 911.  
 Air-lift for deep-well pumping, Equalizing multiple. R. H. Elsey. No. 911,649; Feb. 9; Sp. p. 1251; Gaz. vol. 139; p. 235.  
 Air-liquefier. J. F. Place. No. 927,594; July 13; Sp. p. 1831; Gaz. vol. 144; p. 325.  
 Air-lock. H. Japp. No. 908,866; Jan. 5; Sp. p. 901; Gaz. vol. 138; p. 143.  
 Air, Method of and apparatus for drying. H. C. Gardner. No. 910,525; Jan. 26; Sp. p. 4289; Gaz. vol. 138; p. 787.  
 Air-moistener. C. G. McKendrick. No. 914,863; Mar. 9; Sp. p. 2546; Gaz. vol. 140; p. 425.  
 Air-moistener and deflector, Hot-. W. M. Roeder. No. 928,703; July 20; Sp. p. 4158; Gaz. vol. 144; p. 724.  
 Air-motor. D. B. Wood. No. 910,342; Jan. 19; Sp. p. 3906; Gaz. vol. 138; p. 702.  
 Air motor or locomotive. J. I. Pittman and E. Harrison. No. 931,643; Aug. 17; Sp. p. 4217; Gaz. vol. 145; p. 723.  
 Air-mover. A. Mathis. No. 928,775; July 20; Sp. p. 4292; Gaz. vol. 144; p. 748.  
 Air operated and controlled mechanism. J. S. Johnston. No. 909,907; Jan. 19; Sp. p. 2978; Gaz. vol. 138; p. 552.  
 Air or gas Means for administering. S. Jackson. No. 920,955; May 11; Sp. p. 1764; Gaz. vol. 142; p. 313.  
 Air or other fluids, Compressor or exhaustor for. C. H. Scott. No. 924,942; June 15; Sp. p. 3956; Gaz. vol. 143; p. 676.  
 Air or other gases, Subjecting materials to the action of. J. E. Greenawalt. No. 921,645; May 11; Sp. p. 3193; Gaz. vol. 142; p. 546.  
 Air, Producing liquid. J. F. Place. No. 918,468; Apr. 13; Sp. p. 3049; Gaz. vol. 141; p. 536.  
 Air-propeller. H. Otto. No. 933,199; Sept. 7; Sp. p. 365; Gaz. vol. 146; p. 58.  
 Air-purifier. H. A. Robinson. No. 923,444; June 1; Sp. p. 751; Gaz. vol. 143; p. 111.  
 Air-purifying apparatus. K. Kosak and R. Herz. No. 920,584; May 4; Sp. p. 991; Gaz. vol. 142; p. 162.  
 Air-regenerating apparatus. R. von Foregger. No. 915,760; Mar. 23; Sp. p. 4365; Gaz. vol. 140; p. 775.  
 Air-separator. G. S. Emerick. No. 928,953; July 27; Sp. p. 4652; Gaz. vol. 144; p. 835.  
 Air-ship. W. Rumble. No. 909,681; Jan. 12; Sp. p. 2511; Gaz. vol. 138; p. 446.  
 Air-ship. P. Hochstrasser. No. 910,683; Jan. 26; Sp. p. 4613; Gaz. vol. 138; p. 840.  
 Air-ship. F. L. Orr. No. 912,158; Feb. 9; Sp. p. 2301; Gaz. vol. 139; p. 399.  
 Air-ship. J. T. Rice. No. 914,511; Mar. 9; Sp. p. 1806; Gaz. vol. 140; p. 308.  
 Air-ship. O. J. Laisy. No. 916,456; Mar. 30; Sp. p. 5685; Gaz. vol. 140; p. 1027.  
 Air-ship. H. Wells. No. 917,695; Apr. 6; Sp. p. 1421; Gaz. vol. 141; p. 250.  
 Air-ship. J. M. Wright. No. 918,410; Apr. 13; Sp. p. 2931; Gaz. vol. 141; p. 517.  
 Air-ship. J. Sinkovits. No. 920,675; May 4; Sp. p. 1191; Gaz. vol. 142; p. 191.  
 Air-ship. B. H. Tingley. No. 921,915; May 18; Sp. p. 3755; Gaz. vol. 142; p. 661.  
 Air-ship. M. H. Whalen. No. 922,228; May 18; Sp. p. 4402; Gaz. vol. 142; p. 763.  
 Air-ship. S. D. Wheeler. No. 922,549; May 25; Sp. p. 5047; Gaz. vol. 142; p. 896.  
 Air-ship. J. M. Park. No. 924,495; June 8; Sp. p. 3015; Gaz. vol. 143; p. 492.  
 Air-ship. P. H. McConnell. No. 925,494; June 22; Sp. p. 5019; Gaz. vol. 143; p. 886.  
 Air-ship. S. Lake. No. 928,524; July 20; Sp. p. 3785; Gaz. vol. 144; p. 665.  
 Air-ship. C. J. Berthel. No. 929,378; July 27; Sp. p. 5581; Gaz. vol. 144; p. 978.  
 Air-ship. R. Schmiechen. No. 931,225; Aug. 17; Sp. p. 3388; Gaz. vol. 145; p. 588.  
 Air-ship. E. S. and W. D. Le Fevre. No. 932,712; Aug. 31; Sp. p. 6533; Gaz. vol. 145; p. 1125.  
 Air-ship. J. Muckle. No. 932,884; Aug. 31; Sp. p. 6876; Gaz. vol. 145; p. 1181.  
 Air-ship. J. A. Rignon. No. 932,999; Aug. 31; Sp. p. 7082; Gaz. vol. 145; p. 1218.  
 Air-ship. A. E. G. Lubke. No. 936,141; Oct. 5; Sp. p. 1144; Gaz. vol. 147; p. 173.  
 Air-ship. B. F. Seymour. No. 937,187; Oct. 19; Sp. p. 3304; Gaz. vol. 147; p. 575.  
 Air-ship. W. C. Ferry. No. 937,956; Oct. 26; Sp. p. 4910; Gaz. vol. 147; p. 848.  
 Air-ship. B. W. Dysart. No. 939,483; Nov. 9; Sp. p. 2305; Gaz. vol. 148; p. 382.  
 Air-ship. H. Mesinger. No. 940,701; Nov. 23; Sp. p. 5006; Gaz. vol. 148; p. 855.  
 Air-ship. A. Bratschie. No. 943,732; Dec. 21; Sp. p. 3672; Gaz. vol. 149; p. 638.  
 Air-ship, Aeroplane. L. A. Becht. No. 914,782; Mar. 9; Sp. p. 2372; Gaz. vol. 140; p. 398.  
 Air-ship, Aeroplane. F. A. Newell. No. 928,687; July 20; Sp. p. 4131; Gaz. vol. 144; p. 719.  
 Air-ships and the like, Optical instrument for determining the direction of travel of. O. Krell. No. 940,329; Nov. 16; Sp. p. 4178; Gaz. vol. 148; p. 705.  
 Air-ships, Paddle-wheel, particularly for use on. F. Fronz. No. 929,298; July 27; Sp. p. 5400; Gaz. vol. 144; p. 950.  
 Air-ships, &c., Propeller mechanism for. P. Jamnitzky. No. 920,064; Apr. 27; Sp. p. 6643; Gaz. vol. 141; p. 1130.  
 Air-ships, Propeller mechanism for. C. M. Lee. No. 936,916; Oct. 12; Sp. p. 2734; Gaz. vol. 147; p. 457.  
 Air-ships, Winged propelling and guiding mechanism for. J. U. de Uherkocz. No. 920,792; May 4; Sp. p. 1418; Gaz. vol. 142; p. 229.  
 Air-supply device, Fresh-. F. S. Lippitt. No. 937,827; Oct. 26; Sp. p. 4647; Gaz. vol. 147; p. 804.  
 Air tempering and purifying apparatus. W. E. Taylor. No. 917,185; Apr. 6; Sp. p. 452; Gaz. vol. 141; p. 79.  
 Air through barrels, Pneumatic siphoning system for circulating. J. F. McLain. No. 938,014; Oct. 26; Sp. p. 5039; Gaz. vol. 147; p. 867.  
 Air-trap, Automatic. R. N. Dyer. No. 942,368; Dec. 7; Sp. p. 707; Gaz. vol. 149; p. 115.  
 Air-treatment apparatus, Fresh-. L. F. Leonard. No. 916,567; Mar. 30; Sp. p. 5928; Gaz. vol. 140; p. 1063.  
 Air-washer. F. E. Donaldson. No. 910,045; Jan. 19; Sp. p. 3247; Gaz. vol. 138; p. 599.  
 Alarm: See Automatic alarm; Automobile alarm; Basin-alarm; Boiler-alarm; Boiler low-water alarm; Breaker and alarm; Box-alarm; Burglar-alarm; Car, &c., burglar-alarm; Carding-machine alarm; Clock-alarm; Electric alarm; Electric fire-alarm; Electric fire and heat alarm; Engineer's alarm; Fire-alarm; Fire and temperature alarm; Gas-stoppage alarm; Gas-supply alarm; Gun-turret alarm; Incubator-alarm; Incubator electric-alarm; Lamp-alarm; Lock-alarm; Low-water-alarm; Mail-slot alarm; Overflow-alarm; Signal-alarm; Sprinkler-alarm; Sprinkler-system automatic alarm.  
 Alarm. J. S. Jones. No. 919,179; Apr. 20; Sp. p. 4579; Gaz. vol. 141; p. 799.  
 Alarm and telephone system. G. Babcock. No. 911,565; Feb. 9; Sp. p. 1050; Gaz. vol. 139; p. 206.  
 Alarm apparatus. W. H. Kirman. No. 918,164; Apr. 13; Sp. p. 2436; Gaz. vol. 141; p. 437.  
 Alarm apparatus. H. R. Bretney. No. 942,433; Dec. 7; Sp. p. 829; Gaz. vol. 149; p. 136.  
 Alarm apparatus. F. P. Moyer. No. 943,440; Dec. 14; Sp. p. 3012; Gaz. vol. 149; p. 508.  
 Alarm attachment. A. H. Johnson. No. 915,605; Mar. 16; Sp. p. 4020; Gaz. vol. 140; p. 694.  
 Alarm-lock. C. Fesenbek. No. 912,454; Feb. 16; Sp. p. 2947; Gaz. vol. 139; p. 535.  
 Alarm mechanism, Time-controlled. H. W. Howard. No. 940,692; Nov. 23; Sp. p. 4989; Gaz. vol. 148; p. 852.  
 Alarm or time-check. R. Türcik. No. 934,241; Sept. 14; Sp. p. 2586; Gaz. vol. 146; p. 428.  
 Alarm-signal, Electric. H. J. Hovey. No. 933,369; Sept. 7; Sp. p. 762; Gaz. vol. 146; p. 119.  
 Alarm system. W. H. Kirman. No. 911,016; Jan. 26; Sp. p. 5253; Gaz. vol. 138; p. 946.  
 Alarm system. L. Giese. No. 922,883; May 25; Sp. p. 5768; Gaz. vol. 142; p. 1006.  
 Album and sheets therefor. C. F. Engstrom. No. 912,656; Feb. 16; Sp. p. 3366; Gaz. vol. 139; p. 604.  
 Album, Post-card. H. P. Morris. No. 934,333; Sept. 14; Sp. p. 2755; Gaz. vol. 146; p. 453.  
 Albumen and animal casein and the product therefrom, Treating vegetable. F. G. Wichmann. No. 932,527; Aug. 31; Sp. p. 6122; Gaz. vol. 145; p. 1062.  
 Albuminate preparation, Soluble-iron-. E. Laves. No. 929,452; July 27; Sp. p. 5696; Gaz. vol. 144; p. 1000.  
 Albuminoids, Treating. E. C. and M. Ekströmer. No. 926,056; June 22; Sp. p. 6201; Gaz. vol. 143; p. 1071.  
 Alcohol and making the same, Solidified. V. Perelzveich and G. Rosenbusch. No. 919,759; Apr. 27; Sp. p. 5987; Gaz. vol. 141; p. 1029.  
 Alcohol-burner. D. F. Baker. No. 925,979; June 22; Sp. p. 6049; Gaz. vol. 143; p. 1045.  
 Alcohol from liquor casks or barrels, Recovering waste. A. Berg. No. 911,367; Feb. 2; Sp. p. 674; Gaz. vol. 139; p. 115.  
 Alcohol, Making. A. Woolner, Jr., and A. Lassloffy. No. 923,282; June 1; Sp. p. 230; Gaz. vol. 143; p. 38.  
 Alcohol, Producing from straw a liquid suitable for the production of. W. F. Giles. No. 918,997; Apr. 20; Sp. p. 4246; Gaz. vol. 141; p. 742.  
 Alcohol, Utilization of maize-ears for the production of. F. L. Stewart. No. 923,088; May 25; Sp. p. 6169; Gaz. vol. 142; p. 1670.  
 Aldehydes, Making. C. Ellis and K. F. McElroy. No. 915,946; Mar. 23; Sp. p. 4696; Gaz. vol. 140; p. 834.  
 Alfalfa-cutter. J. Jorgensen. No. 943,308; Dec. 14; Sp. p. 2741; Gaz. vol. 149; p. 463.  
 Alfalfa-cutting machine. D. L. Adelsperger. No. 932,745; Aug. 31; Sp. p. 6595; Gaz. vol. 145; p. 1137.  
 Alfalfa-drier. R. S. Rowland. No. 928,541; July 20; Sp. p. 3823; Gaz. vol. 144; p. 671.  
 Alfalfa drier and mill. W. E. Riekey. No. 940,193; Nov. 16; Sp. p. 3879; Gaz. vol. 148; p. 658.  
 Alfalfa-grinder. T. Ponsar. No. 908,801; Jan. 5; Sp. p. 770; Gaz. vol. 138; p. 121.  
 Alfalfa-reducing machine. L. W. Thompson. No. 919,090; Apr. 20; Sp. p. 4406; Gaz. vol. 141; p. 770.  
 Alfalfa-shredder. W. B. Kraft. No. 936,783; Oct. 12; Sp. p. 2476; Gaz. vol. 147; p. 412.  
 Alkali-chlorid solutions by means of mercury cathodes, Apparatus for the electrolytic decomposition of. J. J. Rink. No. 918,370; Apr. 13; Sp. p. 2852; Gaz. vol. 141; p. 505.  
 Alkali chlorids, Apparatus for the electrolysis of. J. Billitzer. No. 934,385; Sept. 14; Sp. p. 2850; Gaz. vol. 146; p. 476.  
 Alkali chlorids, Electrolysis of. J. Billitzer. No. 928,734; July 20; Sp. p. 4216; Gaz. vol. 144; p. 734.  
 Alkali hydrosulphites, Making. B. Deutecom. No. 935,001; Sept. 28; Sp. p. 4084; Gaz. vol. 146; p. 732.



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- Alkali-metal amalgams, Apparatus for decomposing. C. F. Carrier, Jr. No. 908,545; Jan. 5; Sp. p. 237; Gaz. vol. 138; p. 40.
- Alkali metals and making same, Suspension of carbon in. E. Weintraub. No. 922,645; May 25; Sp. p. 5245; Gaz. vol. 142; p. 928.
- Alkali-recovering apparatus. C. F. Logan. No. 910,074; Jan. 19; Sp. p. 3301; Gaz. vol. 138; p. 609.
- Alkali silicates, Manufacture of soluble. R. E. Weissmüller. No. 932,204; Aug. 24; Sp. p. 5479; Gaz. vol. 145; p. 933.
- Alkalies, Making caustic. W. T. Gibbs. No. 910,662; Jan. 26; Sp. p. 4582; Gaz. vol. 138; p. 833.
- Alkaline-earth cyanides, Saponification of. K. Bosch. No. 911,468; Feb. 2; Sp. p. 841; Gaz. vol. 139; p. 148.
- Alligator-wrench. S. A. Brockway. No. 923,940; June 8; Sp. p. 1855; Gaz. vol. 143; p. 309.
- Alloy. J. F. Clapp. No. 909,283; Jan. 12; Sp. p. 1742; Gaz. vol. 138; p. 313.
- Alloy. W. G. Black. No. 912,645; Feb. 16; Sp. p. 3347; Gaz. vol. 139; p. 601.
- Alloy. E. B. Craft and J. W. Harris. No. 937,284; Oct. 19; Sp. p. 3511; Gaz. vol. 147; p. 607.
- Alloy. E. B. Craft and J. W. Harris. No. 937,285; Oct. 19; Sp. p. 3512; Gaz. vol. 147; p. 607.
- Alloy and its production. A. J. Rossi. No. 935,863; Oct. 5; Sp. p. 566; Gaz. vol. 147; p. 82.
- Alloy, Antifriction-. E. A. Touceda. No. 933,139; Sept. 7; Sp. p. 211; Gaz. vol. 146; p. 36.
- Alloy, Antifriction-. E. A. Touceda. No. 934,637; Sept. 21; Sp. p. 3359; Gaz. vol. 146; p. 585.
- Alloy for armor-plates and other uses. E. Schneider. No. 925,659; June 22; Sp. p. 5363; Gaz. vol. 143; p. 939.
- Alloy for armor-plates and other uses. E. Schneider. No. 934,697; Sept. 21; Sp. p. 3473; Gaz. vol. 146; p. 605.
- Alloy for electrical resistance. W. B. Driver. No. 943,066; Dec. 14; Sp. p. 2257; Gaz. vol. 149; p. 383.
- Alloy, Metallic. G. Hartmann. No. 938,422; Oct. 26; Sp. p. 5939; Gaz. vol. 147; p. 1007.
- Alloy of silicon. H. Goldschmidt. No. 921,607; May 11; Sp. p. 3110; Gaz. vol. 142; p. 532.
- Alloy, Silicon. J. T. H. Dempster. No. 923,152; June 1; Sp. p. 71; Gaz. vol. 143; p. 11.
- Alloys, Making. J. T. H. Dempster. No. 926,980; July 6; Sp. p. 566; Gaz. vol. 144; p. 93.
- Alloys, Making and casting. J. F. Monnot. No. 944,371; Dec. 28; Sp. p. 5014; Gaz. vol. 149; p. 882.
- Alloys, Making titanium. F. M. Becket. No. 910,894; Jan. 26; Sp. p. 5032; Gaz. vol. 138; p. 906.
- Alloys, Manufacturing. H. Kuzel. No. 912,246; Feb. 9; Sp. p. 2474; Gaz. vol. 139; p. 426.
- Alloys, &c., Manufacturing calcium-silicon. H. Goldschmidt and O. Weil. No. 938,758; Nov. 2; Sp. p. 655; Gaz. vol. 148; p. 106.
- Alloys of alkali-earth metals, &c., Production of. G. O. Seward and F. von Kugelgen. No. 944,826; Dec. 28; Sp. p. 6036; Gaz. vol. 149; p. 1038.
- Alloys of copper, such as brass, Production of. S. C. Peck and W. R. Hodgkinson. No. 943,159; Dec. 14; Sp. p. 2437; Gaz. vol. 149; p. 414.
- Alloys of silicon, Manufacture of. H. Goldschmidt. No. 915,172; Mar. 16; Sp. p. 3142; Gaz. vol. 140; p. 553.
- Alloys of zinc with copper, Making. S. Elliott. No. 927,843; July 13; Sp. p. 2384; Gaz. vol. 144; p. 408.
- Alloys, Producing ferro. E. F. Price. No. 942,349; Dec. 7; Sp. p. 677; Gaz. vol. 149; p. 109.
- Alloys, Producing low-carbon, low-silicon titanium. F. M. Becket. No. 941,553; Nov. 30; Sp. p. 6839; Gaz. vol. 148; p. 1158.
- Alluvial deposits, Recovering values from. O. T. Crosby. No. 923,116; May 25; Sp. p. 6231; Gaz. vol. 142; p. 1080.
- Alpha-halogen-isovaleryl-urea and making the same. E. Saam. No. 914,518; Mar. 9; Sp. p. 1822; Gaz. vol. 140; p. 311.
- Alternator, Single-phase. C. P. Steinmetz. No. 917,181; Apr. 6; Sp. p. 442; Gaz. vol. 141; p. 78.
- Alum, Making iron-free. E. Strömbach. No. 932,067; Aug. 24; Sp. p. 5203; Gaz. vol. 145; p. 888.
- Alumina, Making. C. M. Hall. No. 921,609; May 11; Sp. p. 3113; Gaz. vol. 142; p. 532.
- Alumina, Manufacture of. G. McCulloch. No. 938,269; Oct. 26; Sp. p. 5585; Gaz. vol. 147; p. 955.
- Alumina, Manufacture of. G. McCulloch. No. 941,799; Nov. 30; Sp. p. 7364; Gaz. vol. 148; p. 1241.
- Alumina, Recovery of soda in the manufacture of. H. C. Pfeffer. No. 938,270; Oct. 26; Sp. p. 5586; Gaz. vol. 147; p. 955.
- Alumina, Removal of silica in the manufacture of. H. C. Pfeffer. No. 938,432; Oct. 26; Sp. p. 5956; Gaz. vol. 147; p. 1010.
- Alumino-silicate or artificial zeolite. R. Gans. No. 914,405; Mar. 9; Sp. p. 1606; Gaz. vol. 140; p. 274.
- Alumino-silicate or artificial zeolite. R. Gans. No. 943,535; Dec. 14; Sp. p. 3225; Gaz. vol. 149; p. 542.
- Aluminous materials and products thereof Treating. A. C. Higgins. No. 916,866; Mar. 30; Sp. p. 6473; Gaz. vol. 140; p. 1156.
- Aluminous materials, Treating. A. C. Higgins. No. 929,219; July 27; Sp. p. 5205; Gaz. vol. 144; p. 923.
- Aluminous materials, Treating. A. C. Higgins. No. 930,376; Aug. 10; Sp. p. 1522; Gaz. vol. 145; p. 276.
- Aluminum and other metals, Extracting. H. S. Blackmore. No. 920,893; May 4; Sp. p. 1633; Gaz. vol. 142; p. 261.
- Aluminum cell reactance. J. J. Frank. No. 941,445; Nov. 30; Sp. p. 6628; Gaz. vol. 148; p. 1123.
- Aluminum compounds, Manufacturing. E. L. Rinman. No. 914,187; Mar. 2; Sp. p. 1149; Gaz. vol. 140; p. 179.
- Aluminum-foil, Manufacture of. A. Gautschi. No. 917,285; Apr. 6; Sp. p. 670; Gaz. vol. 141; p. 114.
- Aluminum ores, Treating. F. J. Tone. No. 929,517; July 27; Sp. p. 5815; Gaz. vol. 144; p. 1021.
- Aluminum silicate ores, Treating. F. J. Tone. No. 929,518; July 27; Sp. p. 5816; Gaz. vol. 144; p. 1021.
- Amalgamator. L. C. Laurent. No. 913,902; Mar. 2; Sp. p. 502; Gaz. vol. 140; p. 81.
- Amalgamator. G. H. Loucks. No. 920,880; May 4; Sp. p. 1613; Gaz. vol. 142; p. 257.
- Amalgamator. E. Hackett. No. 929,086; July 27; Sp. p. 4931; Gaz. vol. 144; p. 879.
- Amalgamator. R. Luckenbach. No. 930,299; Aug. 3; Sp. p. 1369; Gaz. vol. 145; p. 227.
- Amalgamator. M. F. Lansdale. No. 941,371; Nov. 30; Sp. p. 6450; Gaz. vol. 148; p. 1099.
- Amalgamator. H. A. Corliss. No. 941,560; Nov. 30; Sp. p. 6854; Gaz. vol. 148; p. 1161.
- Ambulance. I. H. Russell. No. 910,728; Jan. 26; Sp. p. 4695; Gaz. vol. 138; p. 854.
- Ambulance. C. Mestrovich. No. 938,496; Nov. 2; Sp. p. 109; Gaz. vol. 148; p. 17.
- Ambulance. J. P. L. Wilson. No. 940,104; Nov. 16; Sp. p. 3683; Gaz. vol. 148; p. 627.
- Amids of higher fatty acids, Manufacture of. O. A. H. H. Kösters and L. Ottemann. No. 915,680; Mar. 16; Sp. p. 4195; Gaz. vol. 140; p. 723.
- Ammonia and chlorine or hydrochloric acid. N. L. G. Whitehouse. No. 925,253; June 15; Sp. p. 4567; Gaz. vol. 143; p. 781.
- Ammonia and tar, Obtaining. H. Koppers. (Reissue.) No. 12,971; June 8; Sp. p. 3298; Gaz. vol. 143; p. 539.
- Ammonia, especially sulfate of ammonia, Making salts of. O. P. Hurford. No. 940,972; Nov. 23; Sp. p. 5580; Gaz. vol. 148; p. 944.
- Ammonia from coal-gases, Recovering. F. J. Collin. No. 932,758; Aug. 31; Sp. p. 6633; Gaz. vol. 145; p. 1141.
- Ammonia-gas from ammonia liquors, Obtaining purified. C. M. Stine. No. 929,726; Aug. 3; Sp. p. 187; Gaz. vol. 145; p. 33.
- Ammonia, Making. C. Krauss. No. 922,003; May 18; Sp. p. 3946; Gaz. vol. 142; p. 690.
- Ammonia, &c., Making and recovering. W. J. Dunnachie. No. 943,399; Dec. 14; Sp. p. 2929; Gaz. vol. 149; p. 494.
- Ammunition-rammer. J. Becker. No. 932,094; Aug. 24; Sp. p. 5256; Gaz. vol. 145; p. 896.
- Ammunition-vehicle. W. Mayer. No. 923,869; June 8; Sp. p. 1728; Gaz. vol. 143; p. 288.
- Amusement and advertising device, Combined. T. Smith. No. 933,495; Sept. 7; Sp. p. 1108; Gaz. vol. 146; p. 159.
- Amusement apparatus. E. Woerth. No. 909,500; Jan. 12; Sp. p. 2159; Gaz. vol. 138; p. 383.
- Amusement apparatus. M. R. C. Sonntag. No. 913,243; Feb. 23; Sp. p. 4589; Gaz. vol. 139; p. 823.
- Amusement apparatus. B. J. Sagehomme. No. 914,884; Mar. 9; Sp. p. 2586; Gaz. vol. 140; p. 431.
- Amusement apparatus. T. W. Potts. No. 916,590; Mar. 30; Sp. p. 5972; Gaz. vol. 140; p. 1071.
- Amusement apparatus. R. Tossell and J. Ruel. No. 918,797; Apr. 20; Sp. p. 3801; Gaz. vol. 141; p. 675.
- Amusement apparatus. A. Pitzer. No. 922,628; May 25; Sp. p. 5212; Gaz. vol. 142; p. 922.
- Amusement apparatus. O. M. Connelly and G. W. Rudolph. No. 923,334; June 1; Sp. p. 519; Gaz. vol. 143; p. 74.
- Amusement apparatus. F. S. Chance. No. 923,489; June 1; Sp. p. 836; Gaz. vol. 143; p. 127.
- Amusement apparatus. T. Helliesen. No. 929,130; July 27; Sp. p. 5029; Gaz. vol. 144; p. 894.
- Amusement apparatus. L. Collis. No. 929,753; Aug. 3; Sp. p. 254; Gaz. vol. 145; p. 43.
- Amusement apparatus. C. A. Pressey. No. 930,613; Aug. 10; Sp. p. 2039; Gaz. vol. 145; p. 357.
- Amusement apparatus. P. B. Haight. No. 931,863; Aug. 24; Sp. p. 4736; Gaz. vol. 145; p. 820.
- Amusement apparatus. J. W. Armitage. No. 932,089; Aug. 24; Sp. p. 5246; Gaz. vol. 145; p. 894.
- Amusement apparatus. H. N. Ridgway. No. 932,904; Aug. 31; Sp. p. 6907; Gaz. vol. 145; p. 1187.
- Amusement apparatus. J. A. and L. Voller. No. 941,828; Nov. 30; Sp. p. 7448; Gaz. vol. 148; p. 1252.
- Amusement apparatus. A. C. Wolf. No. 942,230; Dec. 7; Sp. p. 435; Gaz. vol. 149; p. 67.
- Amusement apparatus, Centrifugal. H. N. Ridgway. No. 910,417; Jan. 19; Sp. p. 4061; Gaz. vol. 138; p. 727.
- Amusement apparatus, Mechanical. W. Harling. No. 943,539; Dec. 14; Sp. p. 3230; Gaz. vol. 149; p. 543.
- Amusement apparatus, Racing. M. Lehman, L. Brown, and E. W. Sahlberg. No. 912,004; Feb. 9; Sp. p. 2008; Gaz. vol. 139; p. 350.
- Amusement apparatus, Racing. M. Lehman, L. Brown, and E. W. Sahlberg. No. 912,005; Feb. 9; Sp. p. 2013; Gaz. vol. 139; p. 351.
- Amusement device. A. H. Smith. No. 909,953; Jan. 19; Sp. p. 3081; Gaz. vol. 138; p. 569.
- Amusement device. J. de Martino. No. 910,403; Jan. 19; Sp. p. 4026; Gaz. vol. 138; p. 723.
- Amusement device. H. A. Thompson and C. E. Sargent. No. 910,608; Jan. 26; Sp. p. 4480; Gaz. vol. 138; p. 816.
- Amusement device. J. W. McCann. No. 911,428; Feb. 2; Sp. p. 782; Gaz. vol. 139; p. 136.
- Amusement device. W. J. Manning. No. 911,892; Feb. 9; Sp. p. 1693; Gaz. vol. 139; p. 313.
- Amusement device. I. Kiralfy. No. 913,511; Feb. 23; Sp. p. 5113; Gaz. vol. 139; p. 913.
- Amusement device. J. Huebner. No. 914,723; Mar. 9; Sp. p. 2252; Gaz. vol. 140; p. 378.
- Amusement device. H. L. Conwell. No. 917,006; Apr. 6; Sp. p. 81; Gaz. vol. 141; p. 19.
- Amusement device. W. P. Hayes. No. 920,567; May 4; Sp. p. 963; Gaz. vol. 142; p. 156.
- Amusement device. L. C. Marble. No. 921,135; May 11; Sp. p. 2120; Gaz. vol. 142; p. 373.

*Alphabetical list of inventions—Continued.*

- Amusement device. A. P. Lauster. No. 921,416; May 11; Sp. p. 2722; Gaz. vol. 142; p. 469.  
 Amusement device. C. F. Peck. No. 922,184; May 18; Sp. p. 4296; Gaz. vol. 142; p. 749.  
 Amusement device. F. W. Nall. No. 931,139; Aug. 17; Sp. p. 3197; Gaz. vol. 145; p. 558.  
 Amusement device. T. W. Potts and A. W. Lovell. No. 932,057; Aug. 24; Sp. p. 5185; Gaz. vol. 145; p. 884.  
 Amusement device. B. Hess. No. 933,445; Sept. 7; Sp. p. 920; Gaz. vol. 146; p. 141.  
 Amusement device. S. Liebling and G. P. Schmidt. No. 933,788; Sept. 14; Sp. p. 1682; Gaz. vol. 146; p. 279.  
 Amusement device. H. A. Shauls. No. 933,790; Sept. 14; Sp. p. 1685; Gaz. vol. 146; p. 280.  
 Amusement device. W. F. Schmidt. No. 935,239; Sept. 28; Sp. p. 4552; Gaz. vol. 146; p. 810.  
 Amusement device. N. P. Lithander. No. 937,945; Oct. 26; Sp. p. 4890; Gaz. vol. 147; p. 845.  
 Amusement device. J. J. Tanner. No. 938,179; Oct. 26; Sp. p. 5412; Gaz. vol. 147; p. 923.  
 Amusement device. M. B. Becker. No. 940,664; Nov. 23; Sp. p. 4926; Gaz. vol. 148; p. 843.  
 Amusement device. W. J. McLean. No. 941,334; Nov. 23; Sp. p. 6356; Gaz. vol. 148; p. 1063.  
 Amusement device. R. H. Alexander. No. 941,902; Nov. 30; Sp. p. 7597; Gaz. vol. 148; p. 1279.  
 Amusement device. E. C. Beebe. No. 944,407; Dec. 28; Sp. p. 5101; Gaz. vol. 149; p. 896.  
 Amusement device. C. F. Mack. No. 944,452; Dec. 28; Sp. p. 5196; Gaz. vol. 149; p. 910.  
 Amusement device, Centrifugal. H. N. Ridgway. No. 933,585; Sept. 7; Sp. p. 1269; Gaz. vol. 146; p. 188.  
 Amusement device for producing illusory effects. N. Burgess. No. 924,632; June 15; Sp. p. 3317; Gaz. vol. 143; p. 571.  
 Amusement device, Illusion. C. E. Hicks and E. Wigan. No. 924,068; June 8; Sp. p. 2099; Gaz. vol. 143; p. 350.  
 Amusement of the public, Apparatus for the. W. Taylor. No. 942,759; Dec. 7; Sp. p. 1499; Gaz. vol. 149; p. 246.  
 Amusement-slide. W. S. Tothill. No. 909,480; Jan. 12; Sp. p. 2117; Gaz. vol. 138; p. 376.  
 Amusement-steps. J. H. Cross. No. 914,805; Mar. 9; Sp. p. 2416; Gaz. vol. 140; p. 406.  
 Anatomical developing and adjusting machine. D. W. Riesland. No. 935,272; Sept. 28; Sp. p. 4619; Gaz. vol. 146; p. 821.  
 Anchor. T. Downie. No. 913,367; Feb. 23; Sp. p. 4832; Gaz. vol. 139; p. 866.  
 Anchor. T. Bloomer. No. 915,545; Mar. 16; Sp. p. 3885; Gaz. vol. 140; p. 674.  
 Anchor. F. Baldt, Jr. No. 916,384; Mar. 23; Sp. p. 5509; Gaz. vol. 140; p. 978.  
 Anchor. W. Ward. No. 917,818; Apr. 13; Sp. p. 1721; Gaz. vol. 141; p. 317.  
 Anchor. M. W. Hall. No. 922,137; May 18; Sp. p. 4195; Gaz. vol. 142; p. 733.  
 Anchor. W. F. Kenney. No. 932,397; Aug. 24; Sp. p. 5836; Gaz. vol. 145; p. 996.  
 Anchor. R. Olsen. No. 934,829; Sept. 21; Sp. p. 3728; Gaz. vol. 146; p. 648.  
 Anchor. M. W. Hall. No. 941,776; Nov. 30; Sp. p. 7325; Gaz. vol. 148; p. 1234.  
 Anchor and bolt, Expansion. T. Mason. No. 925,006; June 15; Sp. p. 4105; Gaz. vol. 143; p. 698.  
 Anchor and wall-packer, Combination. C. M. and J. W. Heeter. No. 925,906; June 22; Sp. p. 5915; Gaz. vol. 143; p. 1022.  
 Anchor-bolt. G. and H. Klahre. No. 918,063; Apr. 13; Sp. p. 2245; Gaz. vol. 141; p. 403.  
 Anchor, Ground-. F. V. Simpson and R. Franchot. No. 936,824; Oct. 12; Sp. p. 2549; Gaz. vol. 147; p. 426.  
 Anchor, Guy-. O. H. Lewis. No. 930,486; Aug. 10; Sp. p. 1733; Gaz. vol. 145; p. 313.  
 Anchor, Earth-. F. B. Miller. No. 915,784; Mar. 23; Sp. p. 4407; Gaz. vol. 140; p. 782.  
 Anchor, Expansion bolt-. H. B. Newhall. No. 919,205; Apr. 20; Sp. p. 4627; Gaz. vol. 141; p. 807.  
 Anchor-hook, guy-clamp, and stretcher. G. F. Swortiger. No. 929,996; Aug. 3; Sp. p. 795; Gaz. vol. 145; p. 127.  
 Anchor, Land-. W. Jay. No. 911,504; Feb. 2; Sp. p. 912; Gaz. vol. 139; p. 160.  
 Anchor, Land-. J. H. McNutt. No. 912,018; Feb. 9; Sp. p. 2040; Gaz. vol. 139; p. 355.  
 Anchor, Land-. F. Lucas. No. 923,056; May 25; Sp. p. 6106; Gaz. vol. 142; p. 1060.  
 Anchor or anchor-post, Earth-. J. L. Perry. No. 930,792; Aug. 10; Sp. p. 2399; Gaz. vol. 145; p. 416.  
 Anchor, Rail-. W. H. Walker. No. 911,836; Feb. 9; Sp. p. 1621; Gaz. vol. 139; p. 301.  
 Anchor, Rail-. B. B. Betts. No. 915,655; Mar. 16; Sp. p. 4133; Gaz. vol. 140; p. 714.  
 Anchor, Ship's. H. M. Hingley and J. E. Fletcher. No. 913,292; Feb. 23; Sp. p. 4675; Gaz. vol. 139; p. 839.  
 Anchor, Stockless. W. S. Bickley. No. 928,895; July 20; Sp. p. 4536; Gaz. vol. 144; p. 790.  
 Anchor, Wall-. J. H. Cook. No. 917,927; Apr. 13; Sp. p. 1953; Gaz. vol. 141; p. 354.  
 Anchoring device. A. Scheibel. No. 909,947; Jan. 19; Sp. p. 3055; Gaz. vol. 138; p. 566.  
 Anemometer. C. M. Bernegau. No. 943,962; Dec. 21; Sp. p. 4146; Gaz. vol. 149; p. 718.  
 Angle-indicator for portable machinery, Universal. W. T. McPhetridge. No. 944,810; Dec. 28; Sp. p. 5999; Gaz. vol. 149; p. 1033.  
 Angle-irons, Machine for bending. C. Gabriel. No. 924,758; June 15; Sp. p. 3576; Gaz. vol. 143; p. 614.  
 Animal antirioting device. L. J. Owen. No. 931,794; Aug. 24; Sp. p. 4602; Gaz. vol. 145; p. 798.  
 Animal attachment. A. Blackburn. No. 915,409; Mar. 16; Sp. p. 3612; Gaz. vol. 140; p. 629.  
 Animal-catcher. A. Burger. No. 918,001; Apr. 13; Sp. p. 2125; Gaz. vol. 141; p. 381.  
 Animal-cleaning apparatus. C. Hammer. No. 908,991; Jan. 5; Sp. p. 1157; Gaz. vol. 138; p. 184.  
 Animal-cover. S. H. Rorabeck. No. 935,166; Sept. 28; Sp. p. 4409; Gaz. vol. 146; p. 787.  
 Animal-cover. C. L. Hastings. No. 940,967; Nov. 23; Sp. p. 5572; Gaz. vol. 148; p. 943.  
 Animal-covering. I. E. Palmer. No. 921,622; May 11; Sp. p. 3144; Gaz. vol. 142; p. 537.  
 Animal-dipping apparatus. J. A. Willits. No. 923,473; June 1; Sp. p. 810; Gaz. vol. 143; p. 121.  
 Animal-exterminator, Electric. B. S. Ames. No. 922,377; May 18; Sp. p. 4674; Gaz. vol. 142; p. 811.  
 Animal-fat product and making the same. J. H. Filbert. No. 929,926; Aug. 3; Sp. p. 648; Gaz. vol. 145; p. 103.  
 Animal-holder. T. L. Cardwell. No. 922,667; May 25; Sp. p. 5292; Gaz. vol. 142; p. 935.  
 Animal-hobble. H. J. Meeks and R. S. Harris. No. 914,059; Mar. 2; Sp. p. 871; Gaz. vol. 140; p. 135.  
 Animal-marker. I. O. Olsen. No. 913,042; Feb. 23; Sp. p. 4177; Gaz. vol. 139; p. 756.  
 Animal-serum, Obtaining. R. H. Deutschmann. No. 914,644; Mar. 9; Sp. p. 2068; Gaz. vol. 140; p. 352.  
 Animal-shears. W. M. Cahill. No. 926,726; July 6; Sp. p. 13; Gaz. vol. 144; p. 5.  
 Animal-shears. W. M. Cahill. No. 926,727; July 6; Sp. p. 15; Gaz. vol. 144; p. 5.  
 Animal-slaughtering instrument. H. Bergh. No. 910,775; Jan. 26; Sp. p. 4803; Gaz. vol. 138; p. 869.  
 Animal-trap. G. C. Biddle. No. 909,526; Jan. 12; Sp. p. 2210; Gaz. vol. 138; p. 393.  
 Animal-trap. N. J. Barron. No. 909,981; Jan. 19; Sp. p. 3125; Gaz. vol. 138; p. 578.  
 Animal-trap. J. C. King. No. 912,134; Feb. 9; Sp. p. 2264; Gaz. vol. 139; p. 392.  
 Animal-trap. B. A. Swasey. No. 912,203; Feb. 9; Sp. p. 2392; Gaz. vol. 139; p. 412.  
 Animal-trap. O. D. Wright. No. 912,348; Feb. 16; Sp. p. 2742; Gaz. vol. 139; p. 499.  
 Animal-trap. W. Maechler. No. 912,863; Feb. 16; Sp. p. 3818; Gaz. vol. 139; p. 673.  
 Animal-trap. S. A. Wilson. No. 914,000; Mar. 2; Sp. p. 727; Gaz. vol. 140; p. 115.  
 Animal-trap. A. N. Atkins. No. 914,912; Mar. 9; Sp. p. 2628; Gaz. vol. 140; p. 440.  
 Animal-trap. W. M. Kaiser. No. 915,028; Mar. 9; Sp. p. 2818; Gaz. vol. 140; p. 477.  
 Animal-trap. I. Lawrence. No. 920,765; May 4; Sp. p. 1348; Gaz. vol. 142; p. 219.  
 Animal-trap. M. O. Cox. No. 921,204; May 11; Sp. p. 2269; Gaz. vol. 142; p. 398.  
 Animal-trap. O. Kampfe. No. 924,237; June 8; Sp. p. 2506; Gaz. vol. 143; p. 407.  
 Animal-trap. T. Booth. No. 925,746; June 22; Sp. p. 5553; Gaz. vol. 143; p. 968.  
 Animal-trap. J. Snow. No. 925,847; June 22; Sp. p. 5794; Gaz. vol. 143; p. 1006.  
 Animal-trap. T. H. Huggins. No. 926,419; June 29; Sp. p. 6957; Gaz. vol. 143; p. 1225.  
 Animal-trap. A. O. Kompellen. No. 926,880; July 6; Sp. p. 364; Gaz. vol. 144; p. 58.  
 Animal-trap. M. Johnson. No. 927,149; July 6; Sp. p. 935; Gaz. vol. 144; p. 151.  
 Animal-trap. M. M. Franks. No. 928,649; July 20; Sp. p. 4058; Gaz. vol. 144; p. 706.  
 Animal-trap. G. J. Miller. No. 928,779; July 20; Sp. p. 4298; Gaz. vol. 144; p. 749.  
 Animal-trap. O. Lund. No. 929,147; July 27; Sp. p. 5067; Gaz. vol. 144; p. 900.  
 Animal-trap. S. Rich. No. 929,493; July 27; Sp. p. 5776; Gaz. vol. 144; p. 1013.  
 Animal-trap. C. H. Shoup. No. 934,469; Sept. 21; Sp. p. 3024; Gaz. vol. 146; p. 527.  
 Animal-trap. W. J. Reynolds. No. 934,695; Sept. 21; Sp. p. 3470; Gaz. vol. 146; p. 604.  
 Animal-trap. D. W. Solomon. No. 934,699; Sept. 21; Sp. p. 3475; Gaz. vol. 146; p. 605.  
 Animal-trap. T. C. Dunn and G. J. Vought. No. 936,429; Oct. 12; Sp. p. 1750; Gaz. vol. 147; p. 292.  
 Animal-trap. H. M. Voter. No. 936,836; Oct. 12; Sp. p. 2581; Gaz. vol. 147; p. 430.  
 Animal-trap. J. Jackson. No. 938,239; Oct. 26; Sp. p. 5527; Gaz. vol. 147; p. 944.  
 Animal-trap. J. D. Pettit. No. 938,397; Oct. 26; Sp. p. 5886; Gaz. vol. 147; p. 998.  
 Animal-trap. J. M. Gunn. No. 941,988; Nov. 30; Sp. p. 7756; Gaz. vol. 148; p. 1306.  
 Animal-trap. A. Brecheisen. No. 942,481; Dec. 7; Sp. p. 951; Gaz. vol. 149; p. 153.  
 Animal-trap. R. M. Wilbur. No. 942,528; Dec. 7; Sp. p. 1051; Gaz. vol. 149; p. 170.  
 Animal-trap. N. E. Austin. No. 942,878; Dec. 14; Sp. p. 1797; Gaz. vol. 149; p. 317.  
 Animal-trap attachment. M. Gravatt. No. 911,974; Feb. 9; Sp. p. 1945; Gaz. vol. 139; p. 341.



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- Animal-trough. F. L. Stewart. No. 928,560; July 20; Sp. p. 3864; Gaz. vol. 144; p. 676.
- Ankle-brace. F. J. Sessola. No. 938,440; Oct. 26; Sp. p. 5977; Gaz. vol. 147; p. 1013.
- Ankle-support. W. J. McLinden. No. 943,703; Dec. 21; Sp. p. 3614; Gaz. vol. 149; p. 628.
- Ankle support and protector. H. J. Collis. No. 913,263; Feb. 23; Sp. p. 4623; Gaz. vol. 139; p. 829.
- Ankle-supporter. A. Quenzer. No. 921,563; May 11; Sp. p. 3009; Gaz. vol. 142; p. 517.
- Annealing and hardening furnace. W. S. Rockwell. No. 940,280; Nov. 16; Sp. p. 4064; Gaz. vol. 148; p. 689.
- Annealing-box. J. F. Campbell. No. 908,949; Jan. 5; Sp. p. 1053; Gaz. vol. 138; p. 170.
- Annealing-box. F. Cordes. No. 910,908; Jan. 26; Sp. p. 5058; Gaz. vol. 138; p. 911.
- Annealing-box. F. Cordes. No. 910,909; Jan. 26; Sp. p. 5059; Gaz. vol. 138; p. 911.
- Annealing-box. M. F. Wilfong. No. 915,258; Mar. 16; Sp. p. 3319; Gaz. vol. 140; p. 580.
- Annealing-box. M. F. Wilfong. No. 915,259; Mar. 16; Sp. p. 3320; Gaz. vol. 140; p. 580.
- Annealing-box. E. R. Williams. No. 934,867; Sept. 21; Sp. p. 3803; Gaz. vol. 146; p. 660.
- Annealing-furnace. F. E. Mesta. No. 944,343; Dec. 28; Sp. p. 4945; Gaz. vol. 149; p. 872.
- Annealing-box. F. E. Mesta. No. 944,344; Dec. 28; Sp. p. 4947; Gaz. vol. 149; p. 872.
- Annealing box and furnace. H. C. Shaw. No. 935,275; Sept. 28; Sp. p. 4625; Gaz. vol. 146; p. 822.
- Annealing flats. F. H. Daniels. No. 943,393; Dec. 14; Sp. p. 2920; Gaz. vol. 149; p. 492.
- Annealing flats and other shapes. F. H. Daniels. No. 943,392; Dec. 14; Sp. p. 2918; Gaz. vol. 149; p. 491.
- Annealing flats and other shapes. Apparatus for. F. H. Daniels. No. 943,625; Dec. 14; Sp. p. 3435; Gaz. vol. 149; p. 573.
- Annealing flats and other shapes. Apparatus for. F. H. Daniels. No. 943,626; Dec. 14; Sp. p. 3438; Gaz. vol. 149; p. 574.
- Annealing-furnace. J. C. Swindell. No. 908,902; Jan. 5; Sp. p. 974; Gaz. vol. 138; p. 155.
- Annealing-furnace. F. H. Daniels. No. 936,611; Oct. 12; Sp. p. 2137; Gaz. vol. 147; p. 354.
- Annealing-furnace with inlet sealed by steam. C. C. Baldwin. No. 932,945; Aug. 31; Sp. p. 6989; Gaz. vol. 145; p. 1200.
- Annealing or other like apparatus. W. R. Kinnear. No. 935,793; Oct. 5; Sp. p. 400; Gaz. vol. 147; p. 59.
- Annealing-oven. A. Veghte. No. 930,507; Aug. 10; Sp. p. 1785; Gaz. vol. 145; p. 320.
- Announcement-board. W. N. King. No. 943,941; Dec. 21; Sp. p. 4108; Gaz. vol. 149; p. 712.
- Annular burner. L. H. Brinkman. No. 911,373; Feb. 2; Sp. p. 684; Gaz. vol. 139; p. 117.
- Annunciator. E. J. Brandt. No. 909,142; Jan. 12; Sp. p. 1475; Gaz. vol. 138; p. 268.
- Annunciator. E. Pickel. No. 919,377; Apr. 27; Sp. p. 5188; Gaz. vol. 141; p. 899.
- Annunciator. J. H. Ballweg. No. 921,060; May 11; Sp. p. 1958; Gaz. vol. 142; p. 348.
- Annunciator. C. D. Enochs. No. 921,385; May 11; Sp. p. 2665; Gaz. vol. 142; p. 458.
- Annunciator. E. E. Nye. No. 935,320; Sept. 28; Sp. p. 4717; Gaz. vol. 146; p. 837.
- Annunciator and advertiser. Street and station. G. R. Livergood and B. C. Donnelly. No. 937,253; Oct. 19; Sp. p. 3454; Gaz. vol. 147; p. 596.
- Annunciator-board. J. Zickel. No. 931,548; Aug. 17; Sp. p. 4088; Gaz. vol. 145; p. 696.
- Annunciator-case. H. D. Crouch. No. 939,672; Nov. 9; Sp. p. 2712; Gaz. vol. 148; p. 448.
- Annunciator-drop. B. W. Sweet. No. 930,324; Aug. 3; Sp. p. 1411; Gaz. vol. 145; p. 234.
- Annunciator. Electric. A. J. Smith. No. 935,935; Oct. 5; Sp. p. 718; Gaz. vol. 147; p. 105.
- Anode element. B. W. Gilchrist and G. L. Rice. No. 922,470; May 25; Sp. p. 4889; Gaz. vol. 142; p. 871.
- Anode-mold. J. F. Miller. No. 941,796; Nov. 30; Sp. p. 7360; Gaz. vol. 148; p. 1240.
- Ant-trap. N. D. Fly. No. 918,523; Apr. 20; Sp. p. 3179; Gaz. vol. 141; p. 583.
- Ant-trap. J. W. Mercer. No. 944,568; Dec. 28; Sp. p. 5482; Gaz. vol. 149; p. 951.
- Anthracene compound. P. Thomaschewski. No. 938,616; Nov. 2; Sp. p. 394; Gaz. vol. 148; p. 59.
- Anthracene compound. P. Thomaschewski. No. 938,617; Nov. 2; Sp. p. 394; Gaz. vol. 148; p. 59.
- Anthracite briquets. Producing. J. F. Lovejoy. No. 921,550; May 11; Sp. p. 2982; Gaz. vol. 142; p. 512.
- Antireaper. D. E. Shea. No. 915,120; Mar. 16; Sp. p. 3034; Gaz. vol. 140; p. 535.
- Antidrift device. E. Gunnell. No. 923,648; June 1; Sp. p. 1195; Gaz. vol. 143; p. 183.
- Antidrift device. E. Gunnell. No. 942,855; Dec. 7; Sp. p. 1714; Gaz. vol. 149; p. 278.
- Antifouling and anticorrosive composition. Z. Hotta. No. 916,869; Mar. 30; Sp. p. 6477; Gaz. vol. 140; p. 1157.
- Antifouling composition. C. Ellis. No. 944,420; Dec. 28; Sp. p. 5125; Gaz. vol. 149; p. 900.
- Antifriction-washer for hinges, &c. E. L. Teich. No. 924,511; June 8; Sp. p. 3038; Gaz. vol. 143; p. 497.
- Antirail-spreader. J. L. Denson. No. 930,941; Aug. 10; Sp. p. 2716; Gaz. vol. 145; p. 464.
- Antirattling device. J. J. Halladay. No. 930,072; Aug. 3; Sp. p. 947; Gaz. vol. 145; p. 153.
- Antiseptic. A. Liebrecht. No. 941,888; Nov. 30; Sp. p. 7568; Gaz. vol. 148; p. 1273.
- Antiseptic card, ticket, and package delivering case. E. E. Russell. No. 930,619; Aug. 10; Sp. p. 2051; Gaz. vol. 145; p. 359.
- Antiseptic composition containing phenyl acetate. N. Sulzberger. No. 932,647; Aug. 31; Sp. p. 6399; Gaz. vol. 145; p. 1104.
- Antisiphon-trap. G. O. Miller. No. 927,667; July 13; Sp. p. 2017; Gaz. vol. 144; p. 351.
- Antiskidding device. L. J. Clergy and H. Morrow. No. 923,332; June 1; Sp. p. 517; Gaz. vol. 143; p. 74.
- Antiskidding device. E. B. Stimpson. No. 935,330; Sept. 28; Sp. p. 4734; Gaz. vol. 146; p. 840.
- Antislip device. W. M. Stevenson. No. 923,456; June 1; Sp. p. 777; Gaz. vol. 143; p. 115.
- Antislipping attachment. J. S. Gajewski. No. 940,799; Nov. 23; Sp. p. 5235; Gaz. vol. 148; p. 888.
- Antislipping device. C. J. Marius. No. 913,411; Feb. 23; Sp. p. 4907; Gaz. vol. 139; p. 880.
- Antislipping device. M. F. Stowe. No. 924,702; June 15; Sp. p. 3460; Gaz. vol. 143; p. 595.
- Antivapor-gland. J. E. Lea. No. 924,618; June 8; Sp. p. 3278; Gaz. vol. 143; p. 534.
- Anvil. W. E. Andrews. No. 921,787; May 18; Sp. p. 3488; Gaz. vol. 142; p. 620.
- Anvil. G. E. Freeborn. No. 940,798; Nov. 23; Sp. p. 5234; Gaz. vol. 148; p. 888.
- Anvils, Manufacture of. J. Hay. No. 922,475; May 25; Sp. p. 4897; Gaz. vol. 142; p. 872.
- Apartment, Living-. J. H. Edmonds. No. 944,021; Dec. 21; Sp. p. 4285; Gaz. vol. 149; p. 738.
- Apparel apparatus. W. D. Forbes. No. 928,437; July 20; Sp. p. 3616; Gaz. vol. 144; p. 638.
- Apparel apparatus. E. Kasralowicz. No. 932,870; Aug. 31; Sp. p. 6849; Gaz. vol. 145; p. 1176.
- Apparel attachment. Wearing-. A. Goldberg. No. 938,229; Oct. 26; Sp. p. 5510; Gaz. vol. 147; p. 941.
- Apparel-cutting apparatus. M. E. Kellogg. No. 937,214; Oct. 19; Sp. p. 3359; Gaz. vol. 147; p. 583.
- Apparel-hanger. F. N. Kershaw. No. 926,337; June 29; Sp. p. 6814; Gaz. vol. 143; p. 1199.
- Apparel. Renovating. M. L. Weiss. No. 930,522; Aug. 10; Sp. p. 1860; Gaz. vol. 145; p. 328.
- Apparel, Wearing-. N. J. Roller. No. 942,933; Dec. 14; Sp. p. 1930; Gaz. vol. 149; p. 336.
- Apparel, Wearing-. C. C. Collins. No. 944,176; Dec. 21; Sp. p. 4603; Gaz. vol. 149; p. 789.
- Apples and such like fruit. Apparatus for grading. J. Lomas. No. 944,887; Dec. 28; Sp. p. 6159; Gaz. vol. 149; p. 1060.
- Apron. J. C. Round. No. 925,655; June 22; Sp. p. 5359; Gaz. vol. 143; p. 939.
- Apron. E. L. Henderson. No. 944,553; Dec. 28; Sp. p. 5440; Gaz. vol. 149; p. 946.
- Apron or robe-holder. Storm-. C. S. Beebe. No. 937,222; Oct. 19; Sp. p. 3375; Gaz. vol. 147; p. 586.
- Aqueous solutions. Apparatus for the electrolysis of. M. Huth. No. 935,109; Sept. 28; Sp. p. 4312; Gaz. vol. 146; p. 769.
- Aralkyl-para-aminophenol. P. Rehlander. No. 922,040; May 18; Sp. p. 4014; Gaz. vol. 142; p. 702.
- Arch-shade for gas illumination and other uses. M. Herskovitz. No. 927,726; July 13; Sp. p. 2131; Gaz. vol. 144; p. 369.
- Arch and heel support. M. E. Rice. No. 941,464; Nov. 30; Sp. p. 6665; Gaz. vol. 148; p. 1130.
- Arch-centering form, Collapsible. A. R. Smith. No. 938,718; Nov. 2; Sp. p. 585; Gaz. vol. 148; p. 92.
- Arch, Fire-brick. E. P. Stevens. No. 929,724; Aug. 3; Sp. p. 183; Gaz. vol. 145; p. 32.
- Arch-support. D. Livignano. No. 937,830; Oct. 26; Sp. p. 4653; Gaz. vol. 147; p. 805.
- Arch-support, Adjustable. F. W. Lowe. No. 912,584; Feb. 16; Sp. p. 3232; Gaz. vol. 139; p. 579.
- Arch-supporter, Adjustable. J. T. Appgar. No. 909,858; Jan. 19; Sp. p. 2865; Gaz. vol. 138; p. 535.
- Arch-supporter, Adjustable. T. Hughes. No. 940,022; Nov. 16; Sp. p. 3458; Gaz. vol. 148; p. 597.
- Arch supporter, Instep-. E. H. Dunbar. No. 914,027; Mar. 2; Sp. p. 818; Gaz. vol. 140; p. 125.
- Archetypes, Making. M. Baricelli. No. 909,980; Jan. 19; Sp. p. 3124; Gaz. vol. 138; p. 578.
- Area-finding apparatus. A. C. Freeman, Jr. No. 937,589; Oct. 19; Sp. p. 4161; Gaz. vol. 147; p. 708.
- Arm-chair. E. P. Wanner. No. 940,995; Nov. 23; Sp. p. 5620; Gaz. vol. 148; p. 952.
- Arm-chair and folding bed. J. C. Smith. No. 942,594; Dec. 7; Sp. p. 1170; Gaz. vol. 149; p. 191.
- Arm-rest. A. Roop. No. 915,481; Mar. 16; Sp. p. 3754; Gaz. vol. 140; p. 652.
- Arm-rest and window-guard, Combined. J. Huberlin. No. 929,439; July 27; Sp. p. 5673; Gaz. vol. 144; p. 936.
- Armature. J. P. Nikonow. No. 935,397; Sept. 28; Sp. p. 4868; Gaz. vol. 146; p. 861.
- Armature-coils, Device for use in making. J. F. Card. No. 913,103; Feb. 23; Sp. p. 4283; Gaz. vol. 139; p. 776.
- Armature coils, Former for. E. Denham. No. 935,299; Sept. 28; Sp. p. 4669; Gaz. vol. 146; p. 829.
- Armature-coils, Machine for applying tape to. J. S. Downs. No. 928,592; July 20; Sp. p. 3938; Gaz. vol. 144; p. 687.
- Armature construction. B. A. Behrend. No. 923,614; June 1; Sp. p. 1128; Gaz. vol. 143; p. 172.
- Armature for electric machines. W. J. Bauroth. No. 927,209; July 6; Sp. p. 1053; Gaz. vol. 144; p. 170.
- Armature, Knockdown. E. W. Presbrey. No. 934,212; Sept. 14; Sp. p. 2529; Gaz. vol. 146; p. 417.

*Alphabetical list of inventions—Continued.*

- Armature-teeth, Ventilating-support for. T. Hibbard. No. 917,164; Apr. 6; Sp. p. 205; Gaz. vol. 141; p. 38.
- Armatures for alternating-current motors, Winding of. B. C. Shipman. No. 931,150; Aug. 17; Sp. p. 3224; Gaz. vol. 145; p. 562.
- Armatures of dynamo-electric machines, Winding for. B. G. Lamme. No. 933,765; Sept. 14; Sp. p. 1645; Gaz. vol. 146; p. 271.
- Armor or deck plates, Treating. S. S. Wales. No. 921,925; May 18; Sp. p. 3775; Gaz. vol. 142; p. 663.
- Armor-plate, Treating. S. S. Wales. No. 941,477; Nov. 30; Sp. p. 6693; Gaz. vol. 148; p. 1134.
- Armor-plates, &c., Manufacture of. W. A. Hartley and B. H. Deby. No. 919,859; Apr. 27; Sp. p. 6228; Gaz. vol. 141; p. 1062.
- Armor-plates, Treating. S. S. Wales. No. 928,412; July 20; Sp. p. 3565; Gaz. vol. 144; p. 630.
- Armor-plates and other articles of steel and alloys of steel, Manufacture of. F. Giolitti. No. 936,315; Oct. 12; Sp. p. 1471; Gaz. vol. 147; p. 254.
- Armor-tired wheel. C. E. Dulin. No. 937,146; Oct. 19; Sp. p. 3214; Gaz. vol. 147; p. 562.
- Arsenophenol. P. Ehrlich and A. Berthelm. No. 909,380; Jan. 12; Sp. p. 1923; Gaz. vol. 138; p. 343.
- Article-turner. H. Zimmerman. No. 917,833; Apr. 13; Sp. p. 1749; Gaz. vol. 141; p. 321.
- Asbestos covering, Sectional. W. J. Moeller. No. 940,265; Nov. 16; Sp. p. 4016; Gaz. vol. 148; p. 684.
- Ash-can and other or similar receptacle. T. E. Diamond. No. 931,918; Aug. 24; Sp. p. 4885; Gaz. vol. 145; p. 837.
- Ash-ejector for ships. L. Hochstein. No. 919,014; Apr. 20; Sp. p. 4272; Gaz. vol. 141; p. 747.
- Ash-handling apparatus. W. H. Smalley and E. Hatton. No. 933,129; Sept. 7; Sp. p. 192; Gaz. vol. 146; p. 32.
- Ash-pan. R. B. Patterson, Sr. No. 940,403; Nov. 16; Sp. p. 4371; Gaz. vol. 148; p. 731.
- Ash-pan and burner, Combined. J. F. Williams. No. 926,531; June 29; Sp. p. 7149; Gaz. vol. 143; p. 1263.
- Ash-pan cleaner. J. E. McRoberts. No. 923,067; May 25; Sp. p. 6135; Gaz. vol. 142; p. 1064.
- Ash-pan, Gravity-slide. J. J. Ryan. No. 944,506; Dec. 28; Sp. p. 5333; Gaz. vol. 149; p. 929.
- Ash-pan, Locomotive. T. W. Heintzelman. No. 916,150; Mar. 22; Sp. p. 5087; Gaz. vol. 140; p. 901.
- Ash-pan, Locomotive. C. Kristufek. No. 919,029; Apr. 20; Sp. p. 4301; Gaz. vol. 141; p. 752.
- Ash-receptacle. A. Eichler. No. 909,070; Jan. 5; Sp. p. 1305; Gaz. vol. 138; p. 209.
- Ash-sieve. D. E. Preston. No. 936,737; Oct. 12; Sp. p. 2387; Gaz. vol. 147; p. 397.
- Ash-tray. S. Grünthal. No. 939,909; Nov. 9; Sp. p. 3210; Gaz. vol. 148; p. 529.
- Asphalt-heater. J. F. Driscoll and H. Thompson. No. 923,421; June 1; Sp. p. 701; Gaz. vol. 143; p. 103.
- Asphalt, Rejuvenating. J. A. W. Pine. No. 938,698; Nov. 2; Sp. p. 549; Gaz. vol. 148; p. 86.
- Asphalt-spreading apparatus, Liquid-. C. A. Baldwin. No. 927,315; July 6; Sp. p. 1243; Gaz. vol. 144; p. 204.
- Assay-furnace. B. E. Tennent. No. 944,470; Dec. 28; Sp. p. 5236; Gaz. vol. 149; p. 917.
- Assaying. J. C. Hames. No. 913,129; Feb. 23; Sp. p. 4342; Gaz. vol. 139; p. 785.
- Assaying composition. J. C. Hames. No. 938,849; Nov. 2; Sp. p. 854; Gaz. vol. 148; p. 137.
- Assembling apparatus. N. Marshall. No. 922,437; May 18; Sp. p. 4808; Gaz. vol. 142; p. 832.
- Assembling-clip. G. Lidsean. No. 910,399; Jan. 19; Sp. p. 4017; Gaz. vol. 138; p. 721.
- Assorting and sizing apparatus. E. W. Johnson. No. 932,783; Aug. 31; Sp. p. 6693; Gaz. vol. 145; p. 1148.
- Astronomical apparatus. J. C. Moore. No. 938,162; Oct. 26; Sp. p. 5372; Gaz. vol. 147; p. 917.
- Asymmetric cell. W. C. Arsem. No. 929,371; July 27; Sp. p. 5567; Gaz. vol. 144; p. 976.
- Atmospheric electricity, Apparatus for collecting. W. I. Fennock. No. 911,260; Feb. 2; Sp. p. 473; Gaz. vol. 139; p. 81.
- Atmospheric engine. W. H. Speirs and A. Holm. No. 923,086; May 25; Sp. p. 6165; Gaz. vol. 142; p. 1070.
- Atomizer. F. E. Nelson. No. 910,144; Jan. 19; Sp. p. 3443; Gaz. vol. 138; p. 631.
- Atomizer. E. J. Worst. No. 915,646; Mar. 16; Sp. p. 4108; Gaz. vol. 140; p. 710.
- Atomizer. C. E. Michael. No. 922,307; May 18; Sp. p. 4536; Gaz. vol. 142; p. 788.
- Atomizer. F. C. Dormont. No. 923,822; June 8; Sp. p. 1641; Gaz. vol. 143; p. 272.
- Atomizer. R. F. Venner and A. W. Brown. No. 931,240; Aug. 17; Sp. p. 3420; Gaz. vol. 145; p. 593.
- Atomizer. T. A. De Vilbiss. No. 932,604; Aug. 31; Sp. p. 6309; Gaz. vol. 145; p. 1089.
- Atomizer. T. A. De Vilbiss. No. 938,648; Nov. 2; Sp. p. 443; Gaz. vol. 148; p. 69.
- Atomizer and nebulizer. C. W. Meinecke. No. 918,762; Apr. 20; Sp. p. 3742; Gaz. vol. 141; p. 664.
- Atomizer for paint or the like. R. Reich. No. 930,087; Aug. 3; Sp. p. 980; Gaz. vol. 145; p. 159.
- Atomizer for perfumes and other liquids. H. Rachmann. No. 932,718; Aug. 31; Sp. p. 6547; Gaz. vol. 145; p. 1128.
- Atomizer or burner for liquid fuel. H. Braby. No. 930,346; Aug. 10; Sp. p. 1461; Gaz. vol. 145; p. 267.
- Atomizing liquids, Machine for. P. Kestner. No. 923,856; June 8; Sp. p. 1705; Gaz. vol. 143; p. 283.
- Atomizing, &c., Method of and apparatus for. A. Sala. No. 927,881; July 13; Sp. p. 2456; Gaz. vol. 144; p. 420.
- Attaching and releasing device. D. B. Russell. No. 913,673; Feb. 23; Sp. p. 5494; Gaz. vol. 139; p. 967.
- Attaching device. D. Hoyt. No. 933,757; Sept. 14; Sp. p. 1634; Gaz. vol. 146; p. 269.
- Audiphone-receivers, Magnetic regulator for. C. E. Williams. No. 936,503; Oct. 12; Sp. p. 1918; Gaz. vol. 147; p. 316.
- Audiphone-transmitter. C. E. Williams. No. 910,622; Jan. 26; Sp. p. 4504; Gaz. vol. 138; p. 821.
- Audiphone-transmitter. C. E. Williams. No. 911,101; Feb. 2; Sp. p. 150; Gaz. vol. 139; p. 23.
- Auditorium-seat. B. Wilson. No. 937,131; Oct. 19; Sp. p. 3175; Gaz. vol. 147; p. 557.
- Auger attachment, Post-hole-. E. Eisenbraun. No. 939,235; Nov. 9; Sp. p. 1709; Gaz. vol. 148; p. 297.
- Auger-bit. L. P. Harris. No. 925,903; June 22; Sp. p. 5910; Gaz. vol. 143; p. 1021.
- Auger-bit. J. W. Caldwell. No. 940,426; Nov. 16; Sp. p. 4412; Gaz. vol. 148; p. 738.
- Auger-bit connection, Miners'. S. Tyler. No. 909,968; Jan. 19; Sp. p. 3106; Gaz. vol. 138; p. 574.
- Auger, Coal-. C. R. Anderson. No. 938,941; Nov. 2; Sp. p. 1075; Gaz. vol. 148; p. 171.
- Auger, Earth-. F. Palmer. No. 936,350; Oct. 12; Sp. p. 1552; Gaz. vol. 147; p. 266.
- Auger, Post-hole. G. I. Willett. No. 915,522; Mar. 16; Sp. p. 3825; Gaz. vol. 140; p. 665.
- Auger, Post-hole. H. E. West. No. 934,029; Sept. 14; Sp. p. 2153; Gaz. vol. 146; p. 356.
- Auger, Post-hole. G. M. Fenn. No. 935,251; Sept. 28; Sp. p. 4577; Gaz. vol. 146; p. 814.
- Auger, Square-hole. J. Nielsen. No. 939,438; Nov. 9; Sp. p. 2212; Gaz. vol. 148; p. 367.
- Auto. Baby-. J. R. Spencer. No. 942,679; Dec. 7; Sp. p. 1341; Gaz. vol. 149; p. 220.
- Auto-horse. C. E. Birky. No. 941,301; Nov. 23; Sp. p. 6303; Gaz. vol. 148; p. 1054.
- Auto-propeller. E. E. Wilson. No. 941,970; Nov. 30; Sp. p. 7727; Gaz. vol. 148; p. 1301.
- Autodot-transmitter. P. B. Delany. No. 918,294; Apr. 13; Sp. p. 2712; Gaz. vol. 141; p. 480.
- Autographic register. T. C. McGeown. No. 923,990; June 8; Sp. p. 1965; Gaz. vol. 143; p. 326.
- Autographic register. A. Krauth. No. 925,351; June 15; Sp. p. 4744; Gaz. vol. 143; p. 810.
- Autographic register. E. J. Barker. No. 938,106; Oct. 26; Sp. p. 5235; Gaz. vol. 147; p. 898.
- Automatic alarm. W. H. Reiff. No. 941,950; Nov. 30; Sp. p. 7683; Gaz. vol. 148; p. 1294.
- Automatic brake to prevent cars from leaving tracks. F. M. Evans. No. 921,388; May 11; Sp. p. 2671; Gaz. vol. 142; p. 459.
- Automatic carrier. S. H. Libby. No. 926,884; July 6; Sp. p. 373; Gaz. vol. 144; p. 60.
- Automatic coupling. A. Koage. No. 937,537; Oct. 19; Sp. p. 4069; Gaz. vol. 147; p. 691.
- Automatic flood-gate. J. A. Bolling. No. 930,829; Aug. 10; Sp. p. 2476; Gaz. vol. 145; p. 428.
- Automatic fountain. A. G. Ionides. No. 914,419; Mar. 9; Sp. p. 1625; Gaz. vol. 140; p. 278.
- Automatic gate. J. W. Johnson. No. 932,473; Aug. 31; Sp. p. 6015; Gaz. vol. 145; p. 1044.
- Automatic load-discharging elevator. O. A. Green. No. 923,355; June 1; Sp. p. 568; Gaz. vol. 143; p. 81.
- Automatic lubricator. F. L. Allen. No. 928,417; July 20; Sp. p. 3575; Gaz. vol. 144; p. 632.
- Automatic multiplex press. D. W. Custer. No. 927,123; July 6; Sp. p. 887; Gaz. vol. 144; p. 143.
- Automatic sprinkler. G. I. Rockwood. No. 927,430; July 6; Sp. p. 1464; Gaz. vol. 144; p. 243.
- Automatic switch. S. Ingram and G. L. Allen. No. 919,871; Apr. 27; Sp. p. 6257; Gaz. vol. 141; p. 1067.
- Automatic switch. A. W. Schramm and A. E. Oswald. No. 920,667; May 4; Sp. p. 1175; Gaz. vol. 142; p. 189.
- Automatic switch. J. T. De Moss. No. 920,836; May 4; Sp. p. 1503; Gaz. vol. 142; p. 243.
- Automatic switch. C. H. Bierman. No. 921,666; May 18; Sp. p. 3256; Gaz. vol. 142; p. 579.
- Automatic switch. W. E. Dewein, G. S. Roberts, and J. B. Van Pelt. No. 921,810; May 18; Sp. p. 3534; Gaz. vol. 142; p. 627.
- Automatic switch. I. Dyer. No. 927,512; July 13; Sp. p. 1668; Gaz. vol. 144; p. 298.
- Automatic switch. E. F. Bubb. No. 941,227; Nov. 23; Sp. p. 6146; Gaz. vol. 148; p. 1031.
- Automatic switch. J. Ma Godoy. No. 942,033; Nov. 30; Sp. p. 7835; Gaz. vol. 148; p. 1320.
- Automatic switch. J. W. Thompson. No. 943,758; Dec. 21; Sp. p. 3722; Gaz. vol. 149; p. 648.
- Automatic switch and signal. H. F. Roach. No. 929,880; Aug. 3; Sp. p. 543; Gaz. vol. 145; p. 87.
- Automatic switch, Safety. F. M. Hall. No. 915,854; Mar. 23; Sp. p. 4530; Gaz. vol. 140; p. 805.
- Automatically opening and closing dies. F. A. Errington. No. 927,029; July 6; Sp. p. 684; Gaz. vol. 144; p. 110.
- Automaton. C. W. Clark. No. 916,105; Mar. 23; Sp. p. 5002; Gaz. vol. 140; p. 886.
- Automobile. J. L. Fay. No. 909,073; Jan. 5; Sp. p. 1310; Gaz. vol. 138; p. 210.
- Automobile. N. M. Anderson. No. 910,768; Jan. 26; Sp. p. 4791; Gaz. vol. 138; p. 867.
- Automobile. G. A. Schacht. No. 919,779; Apr. 27; Sp. p. 6027; Gaz. vol. 141; p. 1036.
- Automobile. T. J. Lindsay. No. 925,779; June 22; Sp. p. 5646; Gaz. vol. 143; p. 979.



*Alphabetical list of inventions—Continued.*

- Automobile. U. S. Snyder. No. 931,893; Aug. 24; Sp. p. 4797; Gaz. vol. 145; p. 828.  
 Automobile. B. A. Algerin. No. 936,595; Oct. 12; Sp. p. 2094; Gaz. vol. 147; p. 348.  
 Automobile. H. K. Holsman. No. 937,211; Oct. 19; Sp. p. 3347; Gaz. vol. 147; p. 582.  
 Automobile air-cushion. J. B. Taylor, Jr. No. 914,896; Mar. 9; Sp. p. 2604; Gaz. vol. 140; p. 435.  
 Automobile-alarm. E. Copleston. No. 917,415; Apr. 6; Sp. p. 918; Gaz. vol. 141; p. 159.  
 Automobile and motor-boat, Combined. B. Hartman. No. 921,396; May 11; Sp. p. 2689; Gaz. vol. 142; p. 462.  
 Automobile attachment. H. S. Delamere. No. 936,866; Oct. 12; Sp. p. 2632; Gaz. vol. 147; p. 439.  
 Automobile-axes, Combined driving and steering wheel for. S. V. Dusseau. No. 926,929; July 6; Sp. p. 465; Gaz. vol. 144; p. 75.  
 Automobile-brake. C. Todd. No. 937,557; Oct. 19; Sp. p. 4106; Gaz. vol. 147; p. 698.  
 Automobile braking mechanism. H. K. Holsman. No. 937,212; Oct. 19; Sp. p. 3353; Gaz. vol. 147; p. 582.  
 Automobile-buffer. A. L. McGregor. No. 929,159; July 27; Sp. p. 5088; Gaz. vol. 144; p. 904.  
 Automobile buffer-bar. J. H. Sager. No. 941,654; Nov. 30; Sp. p. 7055; Gaz. vol. 148; p. 1192.  
 Automobile carriage. T. J. Van Pelt. No. 933,007; Aug. 31; Sp. p. 7098; Gaz. vol. 145; p. 1220.  
 Automobile-chassis. R. M. Lloyd. No. 930,551; Aug. 10; Sp. p. 1912; Gaz. vol. 145; p. 337.  
 Automobile circuit-closer. T. A. Backé. No. 916,649; Mar. 30; Sp. p. 6080; Gaz. vol. 140; p. 1090.  
 Automobile circular receptacle. G. V. Hagerty. No. 937,699; Oct. 19; Sp. p. 4374; Gaz. vol. 147; p. 743.  
 Automobile-clock fastening device. D. J. Hurley and F. W. Slager. No. 914,280; Mar. 2; Sp. p. 1331; Gaz. vol. 140; p. 206.  
 Automobile combination-lock. M. L. Yuster. No. 931,981; Aug. 24; Sp. p. 5014; Gaz. vol. 145; p. 858.  
 Automobile controller, Electric-. H. P. Dodge. No. 942,488; Dec. 7; Sp. p. 964; Gaz. vol. 149; p. 156.  
 Automobile curved-road illuminator. D. W. Wells. No. 927,619; July 13; Sp. p. 1893; Gaz. vol. 144; p. 335.  
 Automobile disappearing luggage-carrier. E. T. Robinson. No. 917,362; Apr. 6; Sp. p. 826; Gaz. vol. 141; p. 141.  
 Automobile drip-pans, Valve for. T. A. Yapp. No. 942,232; Dec. 7; Sp. p. 440; Gaz. vol. 149; p. 68.  
 Automobile driving-gear. E. G. Whitacre. No. 939,116; Nov. 2; Sp. p. 1412; Gaz. vol. 148; p. 230.  
 Automobile driving mechanism. C. B. Hatfield, Jr. No. 943,744; Dec. 21; Sp. p. 3695; Gaz. vol. 149; p. 642.  
 Automobile driving mechanism. C. B. Hatfield, Jr. No. 943,745; Dec. 21; Sp. p. 3698; Gaz. vol. 149; p. 643.  
 Automobile driving mechanism. C. B. Hatfield, Jr. No. 943,746; Dec. 21; Sp. p. 3701; Gaz. vol. 149; p. 643.  
 Automobile driving-mechanism support. E. W. M. Bailey. No. 913,250; Feb. 23; Sp. p. 4601; Gaz. vol. 139; p. 825.  
 Automobile dust pan or shield. H. E. Coffin. No. 917,926; Apr. 13; Sp. p. 1952; Gaz. vol. 141; p. 354.  
 Automobile-engine. A. S. Krotz. No. 940,031; Nov. 16; Sp. p. 3476; Gaz. vol. 148; p. 600.  
 Automobile fender or life-guard. J. A. Harris, Jr. No. 927,530; July 13; Sp. p. 1701; Gaz. vol. 144; p. 303.  
 Automobile fifth-wheel. E. A. Oliver. No. 928,790; July 20; Sp. p. 4325; Gaz. vol. 144; p. 753.  
 Automobile foot-warming radiator. E. M. Field, Jr. No. 932,113; Aug. 24; Sp. p. 5296; Gaz. vol. 145; p. 902.  
 Automobile frame suspension. E. C. Shumard. No. 927,886; July 13; Sp. p. 2471; Gaz. vol. 144; p. 422.  
 Automobile-gear. H. P. Dodge and C. M. Foster. No. 943,240; Dec. 14; Sp. p. 2599; Gaz. vol. 149; p. 440.  
 Automobile headlight-adjuster. L. M. Leach. No. 922,299; May 18; Sp. p. 4524; Gaz. vol. 142; p. 786.  
 Automobile-headlight-operating apparatus. O. R. Turner. No. 935,435; Sept. 28; Sp. p. 4941; Gaz. vol. 146; p. 872.  
 Automobile, &c., lamp. C. H. Bryan. No. 910,268; Jan. 19; Sp. p. 3759; Gaz. vol. 138; p. 677.  
 Automobile-lever lock. D. N. Nester. No. 929,783; Aug. 3; Sp. p. 321; Gaz. vol. 145; p. 54.  
 Automobile, &c., lock. E. R. Creamer. No. 915,416; Mar. 16; Sp. p. 3623; Gaz. vol. 140; p. 631.  
 Automobile-lock. H. F. Crim and W. C. Loy. No. 931,684; Aug. 17; Sp. p. 4321; Gaz. vol. 145; p. 738.  
 Automobile-lock. H. F. Crim and W. C. Loy. No. 931,685; Aug. 17; Sp. p. 4322; Gaz. vol. 145; p. 738.  
 Automobile lubricating system. A. Winton and H. B. Anderson. No. 925,258; June 15; Sp. p. 4574; Gaz. vol. 143; p. 782.  
 Automobile-motor. M. and W. Eastman. No. 923,632; June 1; Sp. p. 1159; Gaz. vol. 143; p. 178.  
 Automobile-motor. M. and W. Eastman. (Reissue). No. 12,993; July 20; Sp. p. 4589; Gaz. vol. 144; p. 799.  
 Automobile muffler cut-out. C. G. Hawley and E. K. Baker. No. 931,011; Aug. 10; Sp. p. 2897; Gaz. vol. 145; p. 487.  
 Automobile-propelled vessel. J. W. Freeman. No. 928,955; July 27; Sp. p. 4656; Gaz. vol. 144; p. 836.  
 Automobile-protector. D. F. Armstrong. No. 936,075; Oct. 5; Sp. p. 1010; Gaz. vol. 147; p. 152.  
 Automobile-radiator. I. Cooper. No. 912,289; Feb. 16; Sp. p. 2607; Gaz. vol. 139; p. 490.  
 Automobile-radiator. F. Todd. No. 934,584; Sept. 21; Sp. p. 3241; Gaz. vol. 146; p. 565.  
 Automobile-radiator. H. P. Smith and L. E. Hooker. No. 942,677; Dec. 7; Sp. p. 1333; Gaz. vol. 149; p. 220.  
 Automobile-radiators, Section for. H. Kurtzner. No. 943,257; Dec. 14; Sp. p. 2635; Gaz. vol. 149; p. 446.  
 Automobile rear axle. F. C. Miller. No. 931,451; Aug. 17; Sp. p. 3863; Gaz. vol. 145; p. 666.  
 Automobile rear-axle-driving mechanism. A. Winton and H. B. Anderson. No. 915,920; Mar. 23; Sp. p. 4652; Gaz. vol. 140; p. 825.  
 Automobile rear-axle transmission mechanism. M. L. Williams. No. 913,084; Feb. 23; Sp. p. 4249; Gaz. vol. 139; p. 770.  
 Automobile rebound-checking device. F. Mesinger. No. 930,677; Aug. 10; Sp. p. 2162; Gaz. vol. 145; p. 378.  
 Automobile running-gear. H. J. Hass. No. 924,061; June 8; Sp. p. 2086; Gaz. vol. 143; p. 347.  
 Automobile safety appliance. M. A. Howe. No. 935,108; Sept. 28; Sp. p. 4309; Gaz. vol. 146; p. 769.  
 Automobile safety device. O. Karcher. No. 943,227; Dec. 14; Sp. p. 2566; Gaz. vol. 149; p. 435.  
 Automobile safety steering attachment. H. P. Larouette. No. 929,605; July 27; Sp. p. 5998; Gaz. vol. 144; p. 1050.  
 Automobile seat-bodies, Apparatus for making. M. H. Kashian. No. 934,919; Sept. 21; Sp. p. 3904; Gaz. vol. 146; p. 677.  
 Automobile-seat, Detachable. J. R. Graves and J. Benson. No. 937,595; Oct. 19; Sp. p. 4171; Gaz. vol. 147; p. 710.  
 Automobile shock-absorber. J. C. Murdock. No. 912,483; Feb. 16; Sp. p. 3004; Gaz. vol. 139; p. 543.  
 Automobile sparking mechanism. G. S. Hill. No. 920,326; May 4; Sp. p. 484; Gaz. vol. 142; p. 76.  
 Automobile-spring. L. S. Chadwick. No. 909,365; Jan. 12; Sp. p. 1891; Gaz. vol. 138; p. 338.  
 Automobile spring running-gear. C. P. Boomer. No. 943,764; Dec. 21; Sp. p. 3731; Gaz. vol. 149; p. 649.  
 Automobile, &c., starting apparatus. S. J. Evans. No. 917,572; Apr. 6; Sp. p. 1190; Gaz. vol. 141; p. 208.  
 Automobile starting device. R. E. Drachenberg. No. 911,480; Feb. 2; Sp. p. 858; Gaz. vol. 139; p. 152.  
 Automobile starting device. J. R. McPherson. No. 925,216; June 15; Sp. p. 4512; Gaz. vol. 143; p. 769.  
 Automobile steering device. J. Carter. No. 913,198; Feb. 23; Sp. p. 4488; Gaz. vol. 139; p. 808.  
 Automobile steering-gear. G. Geer. No. 911,489; Feb. 2; Sp. p. 874; Gaz. vol. 139; p. 155.  
 Automobile steering-gear. G. S. Hill. No. 927,143; July 6; Sp. p. 925; Gaz. vol. 144; p. 149.  
 Automobile steering-head. H. C. Stutz. No. 911,777; Feb. 9; Sp. p. 1478; Gaz. vol. 139; p. 276.  
 Automobile steering-post. C. T. and H. Koenigsberg, Sr. No. 918,166; Apr. 13; Sp. p. 2444; Gaz. vol. 141; p. 438.  
 Automobile steering-wheel. A. J. Kinnucan. No. 909,807; Jan. 12; Sp. p. 2764; Gaz. vol. 138; p. 487.  
 Automobile steering-wheel. J. B. Dumais. No. 930,362; Aug. 10; Sp. p. 1499; Gaz. vol. 145; p. 272.  
 Automobile-support. A. J. Parker. No. 917,353; Apr. 6; Sp. p. 809; Gaz. vol. 141; p. 138.  
 Automobile-top, Folding or collapsible. H. M. Hoelscher. No. 926,118; June 29; Sp. p. 6944; Gaz. vol. 143; p. 1126.  
 Automobile touring-map carrier. H. Dalitz. No. 938,828; Nov. 2; Sp. p. 816; Gaz. vol. 148; p. 131.  
 Automobile transmission device. T. Williams. No. 910,981; Jan. 26; Sp. p. 5185; Gaz. vol. 138; p. 934.  
 Automobile transmission-gears, Cover for. H. V. Young. No. 926,800; July 6; Sp. p. 192; Gaz. vol. 144; p. 32.  
 Automobile transmission mechanism. H. C. Waite. No. 912,513; Feb. 16; Sp. p. 3078; Gaz. vol. 139; p. 554.  
 Automobile turn-table. C. K. Elmer. No. 923,825; June 8; Sp. p. 1646; Gaz. vol. 143; p. 275.  
 Automobile turn-table. W. T. Coleman. No. 926,388; June 29; Sp. p. 6901; Gaz. vol. 143; p. 1215.  
 Automobile under-pan. J. A. Miller. No. 925,783; June 22; Sp. p. 5652; Gaz. vol. 143; p. 980.  
 Automobile vehicle. L. H. Dyer. No. 921,963; May 18; Sp. p. 3861; Gaz. vol. 142; p. 676.  
 Automobile vehicles, Braking means for. A. Krebs. No. 934,547; Sept. 21; Sp. p. 3166; Gaz. vol. 146; p. 552.  
 Automobile-wheel. E. S. Lea. No. 913,522; Feb. 23; Sp. p. 5140; Gaz. vol. 139; p. 917.  
 Automobile-wheel. O. A. Hamre. No. 922,278; May 18; Sp. p. 4495; Gaz. vol. 142; p. 780.  
 Automobile-wheel. J. A. Fleming. No. 931,403; Aug. 17; Sp. p. 3771; Gaz. vol. 145; p. 651.  
 Automobile-wheel-drive. T. G. Rowe. No. 940,069; Nov. 16; Sp. p. 3594; Gaz. vol. 148; p. 615.  
 Automobile-wheel hub. A. A. De Mars. No. 916,118; Mar. 23; Sp. p. 5026; Gaz. vol. 140; p. 890.  
 Automobile wind-deflector. J. M. Patrick. No. 940,270; Nov. 16; Sp. p. 4022; Gaz. vol. 148; p. 685.  
 Automobile wind-shield. H. H. White. No. 909,266; Jan. 12; Sp. p. 1701; Gaz. vol. 138; p. 307.  
 Automobile wind-shield. S. D. Hunter. No. 910,065; Jan. 19; Sp. p. 3286; Gaz. vol. 138; p. 606.  
 Automobile wind-shield. F. Parizek. No. 930,560; Aug. 10; Sp. p. 1926; Gaz. vol. 145; p. 340.  
 Automobile wind-shield. H. F. Holbrook. No. 932,126; Aug. 24; Sp. p. 5322; Gaz. vol. 145; p. 907.  
 Automobile wind-shield. A. W. Towle. No. 942,225; Dec. 7; Sp. p. 425; Gaz. vol. 149; p. 65.  
 Automobiles and other machinery, Transmission-gear for. L. T. Rhoades. No. 934,016; Sept. 14; Sp. p. 2131; Gaz. vol. 146; p. 352.  
 Automobiles and other vehicles, Cushioning device for. R. H. Rice. No. 920,999; May 11; Sp. p. 1843; Gaz. vol. 142; p. 327.  
 Automobiles and other vehicles, Safety fender or guard for. F. J. Graf. No. 908,561; Jan. 5; Sp. p. 270; Gaz. vol. 138; p. 45.  
 Automobiles and other vehicles, Spindle-joint for. J. A. Myers. No. 922,939; May 25; Sp. p. 5873; Gaz. vol. 142; p. 1023.  
 Automobiles and other vehicles, Surface street or road railway for. M. Maginn. No. 912,478; Feb. 16; Sp. p. 2996; Gaz. vol. 139; p. 542.



*Alphabetical list of inventions—Continued.*

- Automobiles and other vehicles, Vibration-recorder for. E. S. Phelps. No. 921,157; May 11; Sp. p. 2157; Gaz. vol. 142; p. 380.
- Automobiles and the like, Shock-absorber for. R. B. Ewart. No. 943,774; Dec. 21; Sp. p. 3751; Gaz. vol. 149; p. 653.
- Automobiles, Auxiliary starting device for. J. W. and F. Jackson. No. 921,995; May 18; Sp. p. 3925; Gaz. vol. 142; p. 686.
- Automobiles, Chain-drive adjustment and casing for. L. S. Chadwick. No. 930,531; Aug. 10; Sp. p. 1875; Gaz. vol. 145; p. 331.
- Automobiles, Continuous-track-light attachment for. J. M. Pitney, Jr. No. 923,295; June 1; Sp. p. 425; Gaz. vol. 143; p. 60.
- Automobiles, Controller for electrically-driven. A. Vorreiter. No. 918,402; Apr. 13; Sp. p. 2916; Gaz. vol. 141; p. 514.
- Automobiles, Electric gear-changing mechanism for. F. Beemer. No. 925,270; June 15; Sp. p. 4597; Gaz. vol. 143; p. 785.
- Automobiles, Friction drive mechanism for. A. B. Cole. No. 928,739; July 20; Sp. p. 4230; Gaz. vol. 144; p. 737.
- Automobiles, Gas-lighting system for. E. Timmerhoff. No. 924,513; June 8; Sp. p. 3044; Gaz. vol. 143; p. 498.
- Automobiles, Gear-changing mechanism for. F. Beemer. No. 930,029; Aug. 3; Sp. p. 856; Gaz. vol. 145; p. 138.
- Automobiles, Gear-transmission mechanism for. E. J. Gulick. No. 923,044; May 25; Sp. p. 6068; Gaz. vol. 142; p. 1056.
- Automobiles, &c., Motive power for. E. S. Lea. No. 922,489; May 25; Sp. p. 4916; Gaz. vol. 142; p. 876.
- Automobiles, Power-transmitting mechanism for. L. P. Mooers. (Reissue.) No. 12,966; June 1; Sp. p. 1587; Gaz. vol. 143; p. 236.
- Automobiles, Radiator for. J. E. Lewis. No. 940,976; Nov. 23; Sp. p. 5587; Gaz. vol. 148; p. 946.
- Automobiles, Rear axle for. F. C. Miller. No. 922,308; May 18; Sp. p. 4536; Gaz. vol. 142; p. 788.
- Automobiles, Reclining-seat for. J. S. Lord. No. 927,566; July 13; Sp. p. 1763; Gaz. vol. 144; p. 315.
- Automobiles, Sleigh attachment for. P. M. Knutson. No. 942,082; Dec. 7; Sp. p. 94; Gaz. vol. 149; p. 16.
- Automobiles, &c., Spring for. C. A. Lieb. No. 922,169; May 18; Sp. p. 4250; Gaz. vol. 142; p. 743.
- Automobiles, Suspension-spring system for. C. A. Lieb. No. 933,997; Sept. 14; Sp. p. 2100; Gaz. vol. 146; p. 346.
- Automobiles, Torsion tube-support for rear-axle housings of. E. J. Gulick. No. 923,045; May 25; Sp. p. 6070; Gaz. vol. 142; p. 1057.
- Automobiles, Transmission-gearing for. M. L. Williams. No. 926,797; July 6; Sp. p. 185; Gaz. vol. 144; p. 31.
- Automobiles, Valve-gear for descending. H. Saurer. No. 934,762; Sept. 21; Sp. p. 3588; Gaz. vol. 146; p. 626.
- Autopiano. W. F. Bayer. No. 926,921; July 6; Sp. p. 453; Gaz. vol. 144; p. 73.
- Autovehicle mixed drive. H. Pieper. No. 913,846; Mar. 2; Sp. p. 352; Gaz. vol. 140; p. 60.
- Auxiliary spring. W. C. Brown. No. 925,559; June 22; Sp. p. 5150; Gaz. vol. 143; p. 908.
- Awl, Sewing-. A. M. Parker. No. 909,817; Jan. 12; Sp. p. 2783; Gaz. vol. 138; p. 490.
- Awning. M. M. Cormeny. No. 914,639; Mar. 9; Sp. p. 2000; Gaz. vol. 140; p. 350.
- Awning. C. Joseph. No. 918,057; Apr. 13; Sp. p. 2235; Gaz. vol. 141; p. 401.
- Awning. J. Rothchild. No. 918,598; Apr. 20; Sp. p. 3338; Gaz. vol. 141; p. 607.
- Awning. W. Sullivan. No. 920,686; May 4; Sp. p. 1213; Gaz. vol. 142; p. 195.
- Awning. A. F. Winberg. No. 924,951; June 15; Sp. p. 3972; Gaz. vol. 143; p. 679.
- Awning. H. F. Sanders. No. 925,231; June 15; Sp. p. 4534; Gaz. vol. 143; p. 774.
- Awning. M. L. Bond. No. 931,259; Aug. 17; Sp. p. 3457; Gaz. vol. 145; p. 600.
- Awning. H. Smith. No. 931,967; Aug. 24; Sp. p. 4984; Gaz. vol. 145; p. 853.
- Awning. C. R. Goudie. No. 934,605; Sept. 21; Sp. p. 3284; Gaz. vol. 146; p. 572.
- Awning-arm, Self-adjusting folding. G. Baptiste. No. 922,837; May 25; Sp. p. 5652; Gaz. vol. 142; p. 990.
- Awning cords or straps, Locking device for. S. Asch. No. 937,503; Oct. 19; Sp. p. 3999; Gaz. vol. 147; p. 678.
- Awning-fixture. F. Bailey. No. 911,535; Feb. 2; Sp. p. 975; Gaz. vol. 139; p. 170.
- Awning-fixture. F. O. Berg. No. 940,120; Nov. 16; Sp. p. 3715; Gaz. vol. 148; p. 633.
- Awning-fixture. J. W. Bancroft. No. 943,059; Dec. 14; Sp. p. 2245; Gaz. vol. 149; p. 381.
- Awning-frame. J. W. Richards. No. 909,119; Jan. 5; Sp. p. 1421; Gaz. vol. 138; p. 226.
- Awning guide-rod. R. Simms. No. 928,806; July 20; Sp. p. 4351; Gaz. vol. 144; p. 758.
- Awning-operating device. W. Nehring. No. 913,424; Feb. 23; Sp. p. 4944; Gaz. vol. 139; p. 885.
- Awning-roller support. J. O. Nodland. No. 922,501; May 25; Sp. p. 4938; Gaz. vol. 142; p. 880.
- Awning-rollers, &c., Intermediate support for. J. H. Channon. No. 908,954; Jan. 5; Sp. p. 1062; Gaz. vol. 138; p. 171.
- Awning-socket. J. Kennedy. No. 926,196; June 29; Sp. p. 6526; Gaz. vol. 143; p. 1154.
- Awning-support and lock therefor. J. C. McNamara. No. 920,618; May 4; Sp. p. 1061; Gaz. vol. 142; p. 172.
- Awnings, Head-rod fastener for. J. E. Robinson. No. 923,892; June 8; Sp. p. 1769; Gaz. vol. 143; p. 295.
- Ax. H. Yeatts. No. 910,763; Jan. 26; Sp. p. 4783; Gaz. vol. 138; p. 865.
- Ax. S. Amster. No. 937,911; Oct. 26; Sp. p. 4820; Gaz. vol. 147; p. 833.
- Ax, Brush-. F. Hammerly. No. 914,947; Mar. 9; Sp. p. 2689; Gaz. vol. 140; p. 451.
- Ax, Detachable. J. Ryan. No. 911,075; Feb. 2; Sp. p. 106; Gaz. vol. 139; p. 19.
- Ax-handle lathes, Variable feed for. J. A. Cummins. No. 910,507; Jan. 26; Sp. p. 4260; Gaz. vol. 138; p. 782.
- Ax-handle protector. A. H. Gruis. No. 925,335; June 15; Sp. p. 4710; Gaz. vol. 143; p. 804.
- Axes and eye-tools, Making. C. P. Byrnes. No. 914,240; Mar. 2; Sp. p. 1246; Gaz. vol. 140; p. 194.
- Axes, Combined wedge and balancing-weight for. G. W. Wallace. No. 935,712; Oct. 5; Sp. p. 191; Gaz. vol. 147; p. 30.
- Axle. J. E. Symons. No. 915,902; Mar. 23; Sp. p. 4623; Gaz. vol. 140; p. 820.
- Axle. T. H. Walbridge. No. 925,537; June 22; Sp. p. 5112; Gaz. vol. 143; p. 900.
- Axle and bearing, Car-wheel. G. F. Rendall. No. 944,463; Dec. 28; Sp. p. 5223; Gaz. vol. 149; p. 914.
- Axle and making same, Steel car-. A. C. Cunningham. No. 938,827; Nov. 2; Sp. p. 812; Gaz. vol. 148; p. 130.
- Axle, Automobile-. M. D. Tindal. No. 942,151; Dec. 7; Sp. p. 274; Gaz. vol. 149; p. 42.
- Axle-bearing device, Car. J. W. Stephenson. No. 931,658; Aug. 17; Sp. p. 4272; Gaz. vol. 145; p. 729.
- Axle-box and spindle. B. E. and M. E. Stevenson. No. 916,213; Mar. 23; Sp. p. 5196; Gaz. vol. 140; p. 920.
- Axle-box and washer. M. E. Boddy. No. 929,189; July 27; Sp. p. 5158; Gaz. vol. 144; p. 914.
- Axle-box dust-guard, Car-. H. C. Gamage. No. 918,528; Apr. 20; Sp. p. 3186; Gaz. vol. 141; p. 584.
- Axle-box for locomotive-drivers. E. Fuller. No. 926,862; July 6; Sp. p. 333; Gaz. vol. 144; p. 53.
- Axle-box lubricating device, Car-. H. C. Gamage. No. 931,053; Aug. 17; Sp. p. 3001; Gaz. vol. 145; p. 529.
- Axle-boxes, Means for attaching. E. J. Spähr. No. 941,822; Nov. 30; Sp. p. 7433; Gaz. vol. 148; p. 1250.
- Axle, Car-. G. Haigh. No. 925,090; June 15; Sp. p. 4261; Gaz. vol. 143; p. 726.
- Axle, Car-wheel. C. W. Parker. No. 919,068; Apr. 20; Sp. p. 4367; Gaz. vol. 141; p. 763.
- Axle, Combined steering and driving. J. W. Buchan. No. 939,795; Nov. 9; Sp. p. 2981; Gaz. vol. 148; p. 490.
- Axle connection for vehicles, Front-. A. J. Goyette. No. 934,067; Sept. 14; Sp. p. 2238; Gaz. vol. 146; p. 368.
- Axle coupling, Car-. R. Hackbarth. No. 928,445; July 20; Sp. p. 3641; Gaz. vol. 144; p. 641.
- Axle coupling, Reversible car-. M. Markarian. No. 929,771; Aug. 3; Sp. p. 295; Gaz. vol. 145; p. 51.
- Axle coupling, Reversible car-. M. Markarian. No. 934,003; Sept. 14; Sp. p. 2109; Gaz. vol. 146; p. 348.
- Axle-cutter, Adjustable. O. J. L. Byers. No. 931,729; Aug. 24; Sp. p. 4463; Gaz. vol. 145; p. 777.
- Axle device, Differential. L. R. Hibbard. No. 928,198; July 13; Sp. p. 3092; Gaz. vol. 144; p. 526.
- Axle, Differential. B. R. Seabrook. No. 910,424; Jan. 19; Sp. p. 4074; Gaz. vol. 138; p. 730.
- Axle for vehicles, Cast-metal. C. G. Ette. No. 922,684; May 25; Sp. p. 5332; Gaz. vol. 142; p. 940.
- Axle journal and hub. J. D. Brett. No. 921,073; May 11; Sp. p. 2006; Gaz. vol. 142; p. 353.
- Axle-lubricator. L. E. Sherwood. No. 911,910; Feb. 9; Sp. p. 1725; Gaz. vol. 139; p. 319.
- Axle-lubricator. J. Aden. No. 924,214; June 8; Sp. p. 2462; Gaz. vol. 143; p. 400.
- Axle-lubricator. J. N. Rickards. No. 936,740; Oct. 12; Sp. p. 2393; Gaz. vol. 147; p. 398.
- Axle-lubricator and dust-excluder. H. P. Hansen. No. 929,303; July 27; Sp. p. 5409; Gaz. vol. 144; p. 952.
- Axle lubricator, Car-. T. Hardy, Jr., and A. Droll. No. 938,852; Nov. 2; Sp. p. 857; Gaz. vol. 148; p. 138.
- Axle-nut-locking device. T. W. Caudle. No. 937,924; Oct. 26; Sp. p. 4848; Gaz. vol. 147; p. 837.
- Axle-oiling device. L. Damour. No. 909,370; Jan. 12; Sp. p. 1904; Gaz. vol. 138; p. 340.
- Axle-skein. U. H. Brown. No. 923,135; June 1; Sp. p. 20; Gaz. vol. 143; p. 5.
- Axle-skein. E. D. Hassenplug. No. 937,936; Oct. 26; Sp. p. 4874; Gaz. vol. 147; p. 841.
- Axle-skeins for vehicles, Constructing. J. E. Wilcoxon. No. 933,806; Sept. 14; Sp. p. 1716; Gaz. vol. 146; p. 285.
- Axle-spindle, Self-lubricating. E. W. Hanna. No. 920,736; May 4; Sp. p. 1308; Gaz. vol. 142; p. 211.
- Axle, Steel. J. E. Symons. No. 909,963; Jan. 19; Sp. p. 3096; Gaz. vol. 138; p. 572.
- Axle, Vehicle-. C. T. Cullison. No. 933,293; Sept. 7; Sp. p. 596; Gaz. vol. 146; p. 92.
- Axle, Vehicle-. D. N. Marler. No. 937,316; Oct. 19; Sp. p. 3566; Gaz. vol. 147; p. 616.
- Axle, Vehicle-. J. V. Hustan. No. 937,530; Oct. 19; Sp. p. 4054; Gaz. vol. 147; p. 689.
- Axes, Method of and means for repairing. A. F. Hunt. No. 928,519; July 20; Sp. p. 3777; Gaz. vol. 144; p. 663.
- Axes of flapping wings, Device for turning the swinging. F. W. T. Kopsch. No. 935,262; Sept. 28; Sp. p. 4599; Gaz. vol. 146; p. 818.
- Axes, Reworking worn car-. J. M. Hansen. No. 940,805; Nov. 23; Sp. p. 5246; Gaz. vol. 148; p. 890.
- Axes, Reworking worn car-. J. M. Hansen. No. 940,806; Nov. 23; Sp. p. 5247; Gaz. vol. 148; p. 890.
- Axes, Spring-buckle for securing springs to. F. Daimler. No. 926,176; June 29; Sp. p. 6480; Gaz. vol. 143; p. 1147.
- Azimuth-indicator. I. N. Lewis. No. 943,751; Dec. 21; Sp. p. 3709; Gaz. vol. 149; p. 645.
- Azo lake and making same. E. Ulrichs. No. 910,030; Jan. 19; Sp. p. 3220; Gaz. vol. 138; p. 594.



*Alphabetical list of inventions—Continued.*

- Babbitting device. J. M. Maynard. No. 922,012; May 18; Sp. p. 3966; Gaz. vol. 142; p. 693.
- Baby-chair, Collapsible and suspensible. T. W. Cleary. No. 930,839; Aug. 10; Sp. p. 2495; Gaz. vol. 145; p. 432.
- Baby-cloths, Receptacle for. C. Brewer. No. 938,961; Nov. 2; Sp. p. 1113; Gaz. vol. 148; p. 178.
- Baby-cloths, Receptacle for. C. Brewer. No. 944,071; Dec. 21; Sp. p. 4380; Gaz. vol. 149; p. 755.
- Baby-gate. G. Heidt. No. 942,067; Dec. 7; Sp. p. 57; Gaz. vol. 149; p. 11.
- Baby-jumper. A. E. Ayers. No. 921,057; May 11; Sp. p. 1953; Gaz. vol. 142; p. 347.
- Baby-jumper. G. T. Gilson. No. 921,394; May 11; Sp. p. 2687; Gaz. vol. 142; p. 461.
- Baby-tender, Self-adjusting chronometric. S. F. Wilson and L. D. Culley. No. 928,415; July 20; Sp. p. 3571; Gaz. vol. 144; p. 631.
- Back-band and hook, Adjustable iron. G. W. Moores. No. 937,257; Oct. 19; Sp. p. 3464; Gaz. vol. 147; p. 598.
- Back-pedaling coaster-brake. F. S. Ellett. No. 929,663; Aug. 3; Sp. p. 38; Gaz. vol. 145; p. 9.
- Background-support. J. A. Holmes. No. 916,316; Mar. 23; Sp. p. 5382; Gaz. vol. 140; p. 955.
- Backing device. C. T. Bradford. No. 917,996; Apr. 13; Sp. p. 2114; Gaz. vol. 141; p. 380.
- Bacon in dies, Machine for cutting. M. Wintermeyer. No. 935,182; Sept. 28; Sp. p. 4442; Gaz. vol. 146; p. 791.
- Badge or ribbon fastener. A. O. Paulson. No. 920,639; May 4; Sp. p. 1103; Gaz. vol. 142; p. 179.
- Bag. *See* Bracelet-bag; Coffee-percolator bag; Feed-bag; Folding bag; Fruit-picker's bag; Golf-club bag; Hand-bag; Hat-bag; Hot-water or ice bag; Mail-bag; Mothproof bag; Paper bag; Powder-bag; Punching-bag; Striking-bag; Tent-bag; Traveling-bag; Valve-bag; Water-bag.
- Bag. J. D. O'Brien. No. 909,815; Jan. 12; Sp. p. 2780; Gaz. vol. 138; p. 489.
- Bag. A. Magui. No. 924,167; June 8; Sp. p. 2337; Gaz. vol. 143; p. 383.
- Bag. C. C. Miller. No. 924,174; June 8; Sp. p. 2356; Gaz. vol. 143; p. 386.
- Bag. J. Reaney, Jr., and J. A. McAnulty. No. 931,886; Aug. 24; Sp. p. 4780; Gaz. vol. 145; p. 826.
- Bag. J. Reaney, Jr., and J. A. McAnulty. No. 931,887; Aug. 24; Sp. p. 4783; Gaz. vol. 145; p. 826.
- Bag. J. G. Noren. No. 933,332; Sept. 7; Sp. p. 680; Gaz. vol. 146; p. 105.
- Bag. J. E. Moye. No. 935,317; Sept. 28; Sp. p. 4713; Gaz. vol. 146; p. 836.
- Bag-bundling device. G. J. Nuessen. No. 931,468; Aug. 17; Sp. p. 3896; Gaz. vol. 145; p. 672.
- Bag-case. J. Oliver. No. 920,632; May 4; Sp. p. 1092; Gaz. vol. 142; p. 177.
- Bag-closure. F. McKain. No. 939,736; Nov. 9; Sp. p. 2844; Gaz. vol. 148; p. 469.
- Bag-creasing device. A. M. Bates. No. 918,495; Apr. 20; Sp. p. 3130; Gaz. vol. 141; p. 574.
- Bag-fastener. A. T. Hamilton. No. 917,595; Apr. 6; Sp. p. 1237; Gaz. vol. 141; p. 217.
- Bag-fastener. L. Kaestner. No. 920,578; May 4; Sp. p. 979; Gaz. vol. 142; p. 159.
- Bag-fastener. C. Hierung and A. Fuller. No. 939,256; Nov. 9; Sp. p. 1745; Gaz. vol. 148; p. 304.
- Bag-fastener. C. Hierung and A. Fuller. No. 939,257; Nov. 9; Sp. p. 1748; Gaz. vol. 148; p. 304.
- Bag-fastener. N. L. Ranum. No. 939,316; Nov. 9; Sp. p. 1918; Gaz. vol. 148; p. 327.
- Bag-fastener. E. S. Erickson. No. 941,016; Nov. 23; Sp. p. 5684; Gaz. vol. 148; p. 960.
- Bag-fastener. F. J. Brown. No. 943,175; Dec. 14; Sp. p. 2460; Gaz. vol. 149; p. 418.
- Bag-fastener. C. J. Lysaght. No. 943,229; Dec. 14; Sp. p. 2573; Gaz. vol. 149; p. 436.
- Bag-fastener. J. S. Isidor. No. 943,937; Dec. 21; Sp. p. 4099; Gaz. vol. 149; p. 710.
- Bag filling and sealing machine. W. Rulison. No. 936,169; Oct. 5; Sp. p. 1189; Gaz. vol. 147; p. 181.
- Bag-filling machine. P. A. Frye. No. 915,847; Mar. 23; Sp. p. 4518; Gaz. vol. 140; p. 802.
- Bag-filling machine. J. L. Drohen. No. 933,025; Aug. 31; Sp. p. 7141; Gaz. vol. 145; p. 1227.
- Bag-folding machine. T. M. Avery. No. 935,729; Oct. 5; Sp. p. 222; Gaz. vol. 147; p. 36.
- Bag-frame. C. Hierung and A. Fuller. No. 928,973; July 27; Sp. p. 4696; Gaz. vol. 144; p. 842.
- Bag-frame catch. C. Hierung and A. Fuller. No. 939,913; Nov. 9; Sp. p. 3218; Gaz. vol. 148; p. 530.
- Bag-frame fastener. J. S. Isidor. No. 925,702; June 22; Sp. p. 5444; Gaz. vol. 143; p. 953.
- Bag-frame fastener. J. S. Isidor. No. 928,661; July 20; Sp. p. 4076; Gaz. vol. 144; p. 710.
- Bag-frame fastener. B. vom Eigen. No. 930,594; Aug. 10; Sp. p. 1998; Gaz. vol. 145; p. 350.
- Bag-holder. G. L. Lyon. No. 914,057; Mar. 2; Sp. p. 869; Gaz. vol. 140; p. 134.
- Bag-holder. G. M. Claggett. No. 915,740; Mar. 23; Sp. p. 4324; Gaz. vol. 140; p. 769.
- Bag-holder. J. R. McGowan. No. 918,355; Apr. 13; Sp. p. 2824; Gaz. vol. 141; p. 500.
- Bag-holder. L. Pedersen. No. 922,624; May 25; Sp. p. 5206; Gaz. vol. 142; p. 921.
- Bag-holder. J. A. Nungesser. No. 924,923; June 15; Sp. p. 3920; Gaz. vol. 143; p. 669.
- Bag-holder. G. L. Lyon. No. 932,151; Aug. 24; Sp. p. 5370; Gaz. vol. 145; p. 916.
- Bag-holder. H. Woodman. No. 942,231; Dec. 7; Sp. p. 439; Gaz. vol. 149; p. 67.
- Bag-holding appliance. W. F. Twombly. No. 913,586; Feb. 23; Sp. p. 5306; Gaz. vol. 139; p. 939.
- Bag-holding device. H. Ihme. No. 941,578; Nov. 30; Sp. p. 6892; Gaz. vol. 148; p. 1167.
- Bag-machine. J. F. Ames. No. 911,563; Feb. 9; Sp. p. 1041; Gaz. vol. 139; p. 205.
- Bag-machine. W. Liddell. No. 943,427; Dec. 14; Sp. p. 2979; Gaz. vol. 149; p. 503.
- Bag or can carrier. W. E. Kleine. No. 919,729; Apr. 27; Sp. p. 5937; Gaz. vol. 141; p. 1019.
- Bag-punching machine, Coin-controlled. A. L. Nevels. No. 933,330; Sept. 7; Sp. p. 674; Gaz. vol. 146; p. 330.
- Bag-seal. E. J. Brooks. No. 908,945; Jan. 5; Sp. p. 1046; Gaz. vol. 138; p. 168.
- Bag-tie. J. M. Stryker. No. 915,503; Mar. 16; Sp. p. 3797; Gaz. vol. 140; p. 660.
- Bag-tie. J. M. Stryker. (Reissue). No. 13,017; Aug. 31; Sp. p. 7187; Gaz. vol. 145; p. 1233.
- Bag-tie. W. H. Morrill. No. 942,007; Nov. 30; Sp. p. 7792; Gaz. vol. 148; p. 1312.
- Baggage-carrier. J. F. Heckert. No. 929,088; July 27; Sp. p. 4934; Gaz. vol. 144; p. 879.
- Baggage-fastener. J. B. Moses. No. 942,733; Dec. 7; Sp. p. 1451; Gaz. vol. 149; p. 237.
- Baggage-rack. W. S. Hamm. No. 927,235; July 6; Sp. p. 1108; Gaz. vol. 144; p. 179.
- Baggage-rack. W. S. Hamm. No. 932,121; Aug. 24; Sp. p. 5313; Gaz. vol. 145; p. 905.
- Baggage-records, Manifold-sheet for. W. Leach. No. 932,620; Aug. 31; Sp. p. 6349; Gaz. vol. 145; p. 1095.
- Baggage-roller. R. F. Slater. No. 913,777; Mar. 2; Sp. p. 213; Gaz. vol. 140; p. 36.
- Ball-attaching means. F. J. Engeln. No. 914,125; Mar. 2; Sp. p. 1015; Gaz. vol. 140; p. 159.
- Ball-ear. F. Westerbeck. No. 913,335; Feb. 23; Sp. p. 4773; Gaz. vol. 139; p. 854.
- Ball-ear. S. Tevander. No. 922,971; May 25; Sp. p. 5926; Gaz. vol. 142; p. 1033.
- Balling-machine. A. R. Tiffany. No. 918,395; Apr. 13; Sp. p. 2903; Gaz. vol. 141; p. 512.
- Balling-machine. W. M. Kinnard. No. 924,995; June 15; Sp. p. 4081; Gaz. vol. 143; p. 695.
- Bait, Artificial. F. O. Howe. No. 935,657; Oct. 5; Sp. p. 65; Gaz. vol. 147; p. 13.
- Bait, Artificial. M. A. Burthe. No. 941,911; Nov. 30; Sp. p. 7613; Gaz. vol. 148; p. 1282.
- Bait, Artificial fish-. N. W. Moran. No. 934,087; Sept. 14; Sp. p. 2283; Gaz. vol. 146; p. 374.
- Bait-casting hook, Weedless tandem. R. L. Sheward. No. 915,707; Mar. 16; Sp. p. 4240; Gaz. vol. 140; p. 730.
- Bait-casting reel. W. T. Bronson. No. 937,672; Oct. 19; Sp. p. 4306; Gaz. vol. 147; p. 734.
- Bait, Glass-. R. L. Frink. No. 915,282; Mar. 16; Sp. p. 3361; Gaz. vol. 140; p. 587.
- Bait-holder. J. F. Beatty. No. 933,818; Sept. 14; Sp. p. 1742; Gaz. vol. 146; p. 289.
- Bait or lure, Fish. E. J. Lockhart. No. 923,670; June 1; Sp. p. 1230; Gaz. vol. 143; p. 190.
- Bait or lure, Fish. B. C. Kenyon. No. 923,854; June 8; Sp. p. 1699; Gaz. vol. 143; p. 283.
- Bake pan or oven, Camper's. A. Huyser. No. 925,911; June 22; Sp. p. 5923; Gaz. vol. 143; p. 1023.
- Baker and steamer, Domestic. J. Mathy. No. 925,781; June 22; Sp. p. 5649; Gaz. vol. 143; p. 980.
- Baker, Fireless. A. T. Thoits and J. G. Gronberg. No. 919,494; Apr. 27; Sp. p. 5477; Gaz. vol. 141; p. 940.
- Baker's goods, milk, postal packages, newspapers, and the like, Arrangement for receiving. W. Eichelkraut. No. 931,285; Aug. 17; Sp. p. 3532; Gaz. vol. 145; p. 609.
- Baker's peel. F. Schumacher. No. 920,188; May 4; Sp. p. 189; Gaz. vol. 142; p. 30.
- Baker's peel. H. B. Jones. No. 927,547; July 13; Sp. p. 1729; Gaz. vol. 144; p. 309.
- Baking apparatus, Confection-. E. H. Lanier and F. K. Driesbach. No. 919,601; Apr. 27; Sp. p. 5683; Gaz. vol. 141; p. 977.
- Baking-form. E. Schmidt. No. 922,050; May 18; Sp. p. 3035; Gaz. vol. 142; p. 705.
- Baking-iron for ice-cream cones. C. E. Menches. No. 924,484; June 8; Sp. p. 2983; Gaz. vol. 143; p. 488.
- Baking-pan, &c. O. W. Bruner. No. 914,238; Mar. 2; Sp. p. 1244; Gaz. vol. 140; p. 194.
- Baking-pan. J. F. Coste. No. 937,424; Oct. 19; Sp. p. 3826; Gaz. vol. 147; p. 651.
- Baking-pan. G. Mueller. No. 943,093; Dec. 14; Sp. p. 2307; Gaz. vol. 149; p. 391.
- Baking-powder. W. A. Beatty. No. 931,027; Aug. 17; Sp. p. 2942; Gaz. vol. 145; p. 521.
- Baking-powder. J. H. Kellogg. No. 932,138; Aug. 24; Sp. p. 5345; Gaz. vol. 145; p. 911.
- Baking-powder. J. H. Hooker. No. 942,072; Dec. 7; Sp. p. 63; Gaz. vol. 149; p. 12.
- Baking-powder, Manufacturing. R. Paul. No. 913,762; Mar. 2; Sp. p. 180; Gaz. vol. 140; p. 30.
- Baking-powder tester. F. Kiely. No. 940,258; Nov. 16; Sp. p. 4004; Gaz. vol. 148; p. 681.
- Baking utensil, Potato-. J. F. Fairbanks. No. 931,587; Aug. 17; Sp. p. 4110; Gaz. vol. 145; p. 707.

*Alphabetical list of inventions—Continued.*

- Balance. W. Heusser. No. 924,663; June 15; Sp. p. 3376; Gaz. vol. 143; p. 582.  
 Balance or scale, Prescription. W. W. Dryden. No. 923,781; June 1; Sp. p. 1511; Gaz. vol. 143; p. 228.  
 Balance-staff pivot-truing device. D. L. Davies. No. 934,429; Sept. 21; Sp. p. 2950; Gaz. vol. 146; p. 514.  
 Balance-wheel staff. C. M. Joye. No. 927,859; July 13; Sp. p. 2414; Gaz. vol. 144; p. 412.  
 Balance-wheels, Apparatus for adjusting. F. R. Cunningham. No. 922,095; May 18; Sp. p. 4122; Gaz. vol. 142; p. 720.  
 Balancing device. J. G. Callan. No. 922,561; May 25; Sp. p. 5078; Gaz. vol. 142; p. 901.  
 Balancing-machine. N. C. Bassett. No. 915,718; Mar. 16; Sp. p. 4265; Gaz. vol. 140; p. 734.  
 Balancing-machine. N. C. Bassett. No. 923,401; June 1; Sp. p. 664; Gaz. vol. 143; p. 97.  
 Balancing-machine. N. C. Bassett. No. 923,402; June 1; Sp. p. 665; Gaz. vol. 143; p. 97.  
 Bale and package tie. W. P. Watkins. No. 923,222; June 1; Sp. p. 212; Gaz. vol. 143; p. 35.  
 Bale-band splice. H. B. Johnson. No. 910,385; Jan. 19; Sp. p. 3990; Gaz. vol. 138; p. 717.  
 Bale-identifying means. W. L. McCarty. No. 929,691; Aug. 3; Sp. p. 103; Gaz. vol. 145; p. 19.  
 Bale-tie. H. O. Fry. No. 936,882; Oct. 12; Sp. p. 2671; Gaz. vol. 147; p. 445.  
 Bale-tie machine. J. H. Meik. No. 915,619; Mar. 16; Sp. p. 4042; Gaz. vol. 140; p. 699.  
 Bale-tie straightening and cleaning machine, Cotton-. F. M. Morton and W. H. Dismuke. No. 939,532; Nov. 9; Sp. p. 2397; Gaz. vol. 148; p. 398.  
 Bale-wiring mechanism. J. H. Sawyer. No. 940,897; Nov. 23; Sp. p. 5429; Gaz. vol. 148; p. 920.  
 Bales, Cotton-marker for. G. W. Long and E. Otidys. No. 936,918; Oct. 12; Sp. p. 2741; Gaz. vol. 147; p. 458.  
 Bales, Identification means for cotton-. C. H. Ivers. No. 930,671; Aug. 10; Sp. p. 2154; Gaz. vol. 145; p. 376.  
 Baling and compress machine, Combined. R. D. Crow. No. 924,223; June 8; Sp. p. 2478; Gaz. vol. 143; p. 402.  
 Baling apparatus. P. Pilon. No. 921,453; May 11; Sp. p. 2796; Gaz. vol. 142; p. 481.  
 Baling-machine. C. E. McLin and J. S. Bachman. No. 914,160; Mar. 2; Sp. p. 1070; Gaz. vol. 140; p. 170.  
 Baling-machine. R. A., C. H., and W. Caswell. No. 932,755; Aug. 31; Sp. p. 6620; Gaz. vol. 145; p. 1140.  
 Baling-machine. W. H. Hansen and A. J. Price. No. 942,257; Dec. 7; Sp. p. 491; Gaz. vol. 149; p. 76.  
 Baling-machine wire-tier. J. H. Gregory and M. L. Sias. No. 911,391; Feb. 2; Sp. p. 718; Gaz. vol. 139; p. 124.  
 Baling-press. R. C. G. Neumann and S. D. Dunham. No. 909,648; Jan. 12; Sp. p. 2453; Gaz. vol. 138; p. 434.  
 Baling-press. W. O. Cumming. No. 909,761; Jan. 12; Sp. p. 2676; Gaz. vol. 138; p. 472.  
 Baling-press. H. M. Tallman. No. 910,741; Jan. 26; Sp. p. 4724; Gaz. vol. 138; p. 858.  
 Baling-press. J. P. Gomes. No. 914,266; Mar. 2; Sp. p. 1307; Gaz. vol. 140; p. 202.  
 Baling-press. J. C. Damron. No. 914,336; Mar. 2; Sp. p. 1444; Gaz. vol. 140; p. 224.  
 Baling-press. G. E. Rider. No. 915,626; Mar. 16; Sp. p. 4063; Gaz. vol. 140; p. 702.  
 Baling-press. C. E. Wehrenberg. No. 918,620; Apr. 20; Sp. p. 3396; Gaz. vol. 141; p. 614.  
 Baling-press. F. M. Weldon. No. 921,190; May 11; Sp. p. 2239; Gaz. vol. 142; p. 393.  
 Baling-press. M. A. Ritter and S. M. McCorkle. No. 924,107; June 8; Sp. p. 2166; Gaz. vol. 143; p. 362.  
 Baling-press. J. R. Browning. No. 927,402; July 6; Sp. p. 1403; Gaz. vol. 144; p. 232.  
 Baling-press. W. S. Livengood. No. 927,807; July 13; Sp. p. 2291; Gaz. vol. 144; p. 396.  
 Baling-press. W. H. Stewart. No. 930,998; Aug. 10; Sp. p. 2863; Gaz. vol. 145; p. 493.  
 Baling-press. I. S. Guentzel. No. 932,316; Aug. 24; Sp. p. 5683; Gaz. vol. 145; p. 970.  
 Baling-press. P. A. Guenzel. No. 935,255; Sept. 28; Sp. p. 4583; Gaz. vol. 146; p. 815.  
 Baling-press. M. A. Markel. No. 935,531; Sept. 28; Sp. p. 5146; Gaz. vol. 146; p. 904.  
 Baling-press. J. W. Burkett. No. 936,216; Oct. 5; Sp. p. 1275; Gaz. vol. 147; p. 194.  
 Baling-press. J. Haag. No. 937,436; Oct. 19; Sp. p. 3849; Gaz. vol. 147; p. 655.  
 Baling-press. F. A. Bothwell. No. 939,466; Nov. 9; Sp. p. 2268; Gaz. vol. 148; p. 376.  
 Baling-press. I. W. Rohrer, Jr. No. 944,823; Dec. 28; Sp. p. 6029; Gaz. vol. 149; p. 1037.  
 Baling-press, Automatic. R. E. Rahm. No. 930,083; Aug. 3; Sp. p. 966; Gaz. vol. 145; p. 157.  
 Baling-press, Self-tying. G. E. Jackson. No. 919,585; Apr. 27; Sp. p. 5646; Gaz. vol. 141; p. 971.  
 Ball: See Base-ball; Golf-ball.  
 Ball. W. W. Wrath. No. 942,952; Dec. 14; Sp. p. 1980; Gaz. vol. 149; p. 343.  
 Ball-and-socket flexible joint. G. F. West. No. 927,391; July 6; Sp. p. 1374; Gaz. vol. 144; p. 228.  
 Ball-carrier. J. T. Cowley. No. 932,762; Aug. 31; Sp. p. 6638; Gaz. vol. 145; p. 1142.  
 Ball-cleaning device, Golf-. H. Woodward. No. 928,832; July 20; Sp. p. 4404; Gaz. vol. 144; p. 767.  
 Ball-cups, Making. A. G. Anderson. No. 927,311; July 6; Sp. p. 1240; Gaz. vol. 144; p. 204.  
 Ball-field marker, Base-. T. H. Murnane. No. 925,014; June 15; Sp. p. 4120; Gaz. vol. 143; p. 701.  
 Ball for use in athletics. R. Reach. No. 929,013; July 27; Sp. p. 4785; Gaz. vol. 144; p. 855.  
 Ball goal, Basket-. M. B. Reach. No. 922,630; May 25; Sp. p. 5220; Gaz. vol. 142; p. 923.  
 Ball-grinding machine. C. A. Hirth. No. 939,502; Nov. 9; Sp. p. 2334; Gaz. vol. 148; p. 387.  
 Ball-marking device, Golf-. W. T. West. No. 943,851; Dec. 21; Sp. p. 3911; Gaz. vol. 149; p. 680.  
 Ball-mill. E. Beneke. No. 908,834; Jan. 5; Sp. p. 843; Gaz. vol. 138; p. 132.  
 Ball-mill. E. Cadenaccio. No. 925,288; June 15; Sp. p. 4628; Gaz. vol. 143; p. 791.  
 Ball-mill. F. T. Lindhard. No. 937,826; Oct. 26; Sp. p. 4643; Gaz. vol. 147; p. 804.  
 Ball-player's armor, Base-. W. J. Sullivan. No. 925,851; June 22; Sp. p. 5800; Gaz. vol. 143; p. 1004.  
 Ball-player's armor, Base-. W. J. Sullivan. No. 932,352; Aug. 24; Sp. p. 5752; Gaz. vol. 145; p. 982.  
 Ball players, Training device for base-. W. G. Lenz. No. 928,674; July 20; Sp. p. 4105; Gaz. vol. 144; p. 715.  
 Ball-plays, Device for. B. Jiroka. No. 922,432; May 18; Sp. p. 4794; Gaz. vol. 142; p. 830.  
 Ball shock-absorber, Bowling-. M. Kern. No. 924,472; June 8; Sp. p. 2959; Gaz. vol. 143; p. 484.  
 Ball used for golf and like games. J. H. Roger. No. 920,653; May 4; Sp. p. 1131; Gaz. vol. 142; p. 184.  
 Balls of cast metal, Making hollow. A. Casey. No. 935,741; Oct. 5; Sp. p. 248; Gaz. vol. 147; p. 40.  
 Baling-machine. A. E. Rhoades. No. 913,980; Mar. 2; Sp. p. 695; Gaz. vol. 140; p. 109.  
 Ballistic plate. S. S. Wales. No. 921,924; May 18; Sp. p. 3773; Gaz. vol. 142; p. 663.  
 Ballistic plate. S. S. Wales. No. 928,348; July 20; Sp. p. 3449; Gaz. vol. 144; p. 608.  
 Balloon. J. A. Steinmetz. No. 936,680; Oct. 12; Sp. p. 2280; Gaz. vol. 147; p. 378.  
 Balloon. R. C. Tilghman. No. 939,644; Nov. 9; Sp. p. 2649; Gaz. vol. 148; p. 438.  
 Balloon, Dirigible. B. D. Reese. No. 939,089; Nov. 2; Sp. p. 1357; Gaz. vol. 148; p. 221.  
 Balloon or air-ship. A. F. Godefroy. No. 909,397; Jan. 12; Sp. p. 1953; Gaz. vol. 138; p. 348.  
 Balloon, Toy. G. S. Rouse. No. 916,605; Mar. 30; Sp. p. 5998; Gaz. vol. 140; p. 1076.  
 Balloons and other air vessels for indicating air-currents, Means for use with. C. Davis. No. 921,515; May 11; Sp. p. 2923; Gaz. vol. 142; p. 502.  
 Ballot-box. C. P. Sullivan and H. B. Black. No. 926,779; July 6; Sp. p. 141; Gaz. vol. 144; p. 23.  
 Ballot-box. A. Page. No. 927,068; July 6; Sp. p. 781; Gaz. vol. 144; p. 124.  
 Ballot-box. W. W. Wills. No. 939,367; Nov. 9; Sp. p. 2033; Gaz. vol. 148; p. 343.  
 Ballot-marking guide. L. A. Wilkinson. No. 911,100; Feb. 2; Sp. p. 149; Gaz. vol. 139; p. 28.  
 Ballot-pouch. N. Beman. No. 911,286; Feb. 2; Sp. p. 525; Gaz. vol. 139; p. 89.  
 Banana-carrier. A. Look. No. 911,508; Feb. 2; Sp. p. 919; Gaz. vol. 139; p. 161.  
 Banana-shipping case. F. J. Schmitz. No. 933,206; Sept. 7; Sp. p. 388; Gaz. vol. 146; p. 61.  
 Banana-shipping case. G. W. Hoffman. No. 937,606; Oct. 19; Sp. p. 4190; Gaz. vol. 147; p. 714.  
 Band-brake. H. A. Tuttle. No. 917,814; Apr. 13; Sp. p. 1715; Gaz. vol. 141; p. 316.  
 Band-brake. J. N. Lawrence. No. 939,519; Nov. 9; Sp. p. 2370; Gaz. vol. 148; p. 393.  
 Band-brake, Double-acting. D. N. Thompson. No. 910,435; Jan. 19; Sp. p. 4095; Gaz. vol. 138; p. 734.  
 Band cleaner, Space-. W. H. Schuyler. No. 914,522; Mar. 9; Sp. p. 1831; Gaz. vol. 140; p. 312.  
 Band-cutter. J. B. Deane. No. 938,831; Nov. 2; Sp. p. 825; Gaz. vol. 148; p. 132.  
 Band-cutter and feeder. M. Carlson. No. 922,668; May 25; Sp. p. 5294; Gaz. vol. 142; p. 936.  
 Band-cutter and feeder. E. L. Hopkins. No. 922,902; May 25; Sp. p. 5797; Gaz. vol. 142; p. 1011.  
 Band-cutter and feeder. W. Weis. No. 934,490; Sept. 21; Sp. p. 3067; Gaz. vol. 146; p. 534.  
 Band-cutters and feeders, Mounted extension for. E. Gerstkemper. No. 915,425; Mar. 16; Sp. p. 3645; Gaz. vol. 140; p. 634.  
 Band-resaw and double jointer. J. McWilliams. No. 914,746; Mar. 9; Sp. p. 2308; Gaz. vol. 140; p. 386.  
 Band-saw guide. J. A. Ansley. No. 916,248; Mar. 23; Sp. p. 5270; Gaz. vol. 140; p. 932.  
 Band-saw knife for trimming shoes. W. B., C., and C. P. Keighley. No. 928,133; July 13; Sp. p. 2947; Gaz. vol. 144; p. 504.  
 Band-stamp. A. H. Merrill. No. 911,424; Feb. 2; Sp. p. 778; Gaz. vol. 139; p. 135.  
 Bandage, &c. D. Sarason. No. 919,250; Apr. 20; Sp. p. 4895; Gaz. vol. 141; p. 822.  
 Bandage, Abdominal. A. Petrel. No. 934,625; Sept. 21; Sp. p. 3335; Gaz. vol. 146; p. 580.  
 Bandage and dressing, Combined. H. Wilson. No. 917,694; Apr. 6; Sp. p. 1420; Gaz. vol. 141; p. 250.  
 Bandage-support. C. M. Cooke. No. 908,959; Jan. 5; Sp. p. 1069; Gaz. vol. 138; p. 173.



*Alphabetical list of inventions—Continued.*

- Bandage, Suspensory. O. M. Morris. No. 924,367; June 8; Sp. p. 2770; Gaz. vol. 143; p. 451.  
 Bandages, Forming sacks for suspensory. J. K. Toles. No. 924,294; June 8; Sp. p. 2621; Gaz. vol. 143; p. 426.  
 Bandages, Putting up. J. E. Lee. (Reissue). No. 12,920; Feb. 16; Sp. p. 4053; Gaz. vol. 139; p. 712.  
 Bandeau. W. L. Manchester. No. 932,304; Aug. 24; Sp. p. 5667; Gaz. vol. 145; p. 966.  
 Banding-machine. C. Wagner and F. X. Malocsay. No. 920,698; May 4; Sp. p. 1230; Gaz. vol. 142; p. 198.  
 Banding or winding machine. C. Boderck. No. 921,668; May 18; Sp. p. 3263; Gaz. vol. 142; p. 580.  
 Bangles, bracelets, and the like, Attachment for. S. Mendel. No. 943,031; Dec. 14; Sp. p. 2164; Gaz. vol. 149; p. 370.  
 Banjo. I. Fillman. No. 911,484; Feb. 2; Sp. p. 866; Gaz. vol. 139; p. 153.  
 Banjo. N. J. Koontz. No. 922,704; May 25; Sp. p. 5372; Gaz. vol. 142; p. 947.  
 Banjo. D. L. Day. No. 928,948; July 27; Sp. p. 4646; Gaz. vol. 144; p. 834.  
 Banjo hand-support. D. E. Hartnett. No. 914,660; Mar. 9; Sp. p. 2098; Gaz. vol. 140; p. 356.  
 Bank. A. I. Zeiger. No. 922,834; May 25; Sp. p. 5645; Gaz. vol. 142; p. 989.  
 Bank. F. E. Jordan. No. 936,780; Oct. 12; Sp. p. 2470; Gaz. vol. 147; p. 411.  
 Bank check and draft system. B. E. Buckmaster. No. 911,374; Feb. 2; Sp. p. 685; Gaz. vol. 139; p. 117.  
 Bank-check, money-order, &c. J. J. Clark. No. 915,554; Mar. 16; Sp. p. 3926; Gaz. vol. 140; p. 677.  
 Bank, Flexible pocket savings-. C. A. Burrows. No. 925,454; June 22; Sp. p. 4951; Gaz. vol. 143; p. 874.  
 Bank-note tester. I. Cohen. No. 935,963; Oct. 5; Sp. p. 771; Gaz. vol. 147; p. 115.  
 Bank or safe, Child's coin. W. A. Ludeke. No. 910,699; Jan. 26; Sp. p. 4642; Gaz. vol. 138; p. 844.  
 Bank, Portable. B. S. Wakeman. No. 928,483; July 20; Sp. p. 3709; Gaz. vol. 144; p. 652.  
 Bank, Portable savings-. J. H. Gunnes. No. 942,638; Dec. 7; Sp. p. 1265; Gaz. vol. 149; p. 207.  
 Bank, Registering-. L. Rittelman. No. 933,205; Sept. 7; Sp. p. 387; Gaz. vol. 146; p. 61.  
 Bank, Savings-. A. Shepard. No. 917,671; Apr. 6; Sp. p. 1375; Gaz. vol. 141; p. 242.  
 Bank, Savings-. H. C. Schmidt. No. 930,496; Aug. 10; Sp. p. 1751; Gaz. vol. 145; p. 316.  
 Bank, Savings-. F. M. Ashley. No. 935,451; Sept. 28; Sp. p. 4971; Gaz. vol. 146; p. 878.  
 Banking-machine. A. Clark. No. 939,472; Nov. 9; Sp. p. 2286; Gaz. vol. 148; p. 378.  
 Bar: See Automobile buffer-bar; Bicycle handle-bar; Boring-bar; Bottle-locking bar; Claw-bar; Concrete bar; Concrete-reinforcing bar; Cutter-bar; Deformed bar; Draft-bar; Draw-bar; Draw-string bar; Evers-bar; Finger-bar; Fire-bar; Grate-bar; Harrow-bar; Joint-bar; Miter-bar; Pen feed-bar; Pinch-bar; Planing-machine cutter-bar; Rail-end angle-bar; Rail-joint splice-bar; Railway draft-rigging draw-bar; Railway insulated switch-bar; Railway-rail tie-bar; Reinforcing-bar; Reinforcement-bar; Scale-bar; Sickle-bar; Skylight-bar; Slack-adjuster bar; Splice-bar; T-slot bar; Tracker-bar; Type-bar.  
 Bar-bender. J. T. Richards. No. 940,360; Nov. 16; Sp. p. 4246; Gaz. vol. 148; p. 716.  
 Bar-fixture. F. G. Schneider and W. C. L. Zeihn. No. 942,014; Nov. 30; Sp. p. 7807; Gaz. vol. 148; p. 1314.  
 Bar-lengthening machine. F. H. Richards. No. 922,512; May 25; Sp. p. 4960; Gaz. vol. 142; p. 884.  
 Bar support, Detector-. J. S. Hobson. No. 912,677; Feb. 16; Sp. p. 3426; Gaz. vol. 139; p. 611.  
 Barber's chair. C. W. Fischer. No. 935,480; Sept. 28; Sp. p. 5019; Gaz. vol. 146; p. 887.  
 Barber's chair reclining mechanism. E. E. Koken. No. 911,135; Feb. 2; Sp. p. 223; Gaz. vol. 139; p. 40.  
 Barber's chairs, Head-rest for. R. S. Wallace. No. 937,343; Oct. 19; Sp. p. 3636; Gaz. vol. 147; p. 625.  
 Barber's chairs, Paper-actuating device for. D. B. Brown. No. 928,243; July 20; Sp. p. 3199; Gaz. vol. 144; p. 571.  
 Barber's chairs, Paper-server for. C. Planschmidt. No. 936,030; Oct. 5; Sp. p. 903; Gaz. vol. 147; p. 137.  
 Barber's comb. E. J. Sheffield. No. 937,475; Oct. 19; Sp. p. 3941; Gaz. vol. 147; p. 669.  
 Barber's pole. E. E. Koken. No. 911,134; Feb. 2; Sp. p. 221; Gaz. vol. 139; p. 40.  
 Barber's register. W. W. Gass. No. 914,265; Mar. 2; Sp. p. 1301; Gaz. vol. 140; p. 202.  
 Barber's shears. N. W. Race. No. 919,211; Apr. 20; Sp. p. 4635; Gaz. vol. 141; p. 809.  
 Barge. A. M. Bowman. No. 915,410; Mar. 16; Sp. p. 3613; Gaz. vol. 140; p. 629.  
 Barge. H. W. Kirchner. No. 929,139; July 27; Sp. p. 5050; Gaz. vol. 144; p. 897.  
 Barge, Skeleton. P. F. Dundon. No. 918,516; Apr. 20; Sp. p. 3169; Gaz. vol. 141; p. 581.  
 Barn construction. J. R. Buckwalter. No. 942,884; Dec. 14; Sp. p. 1811; Gaz. vol. 149; p. 320.  
 Barometric condenser. E. G. Helander. No. 926,486; June 29; Sp. p. 7075; Gaz. vol. 143; p. 1248.  
 Barrel. J. W. Strehli. No. 923,461; June 1; Sp. p. 786; Gaz. vol. 143; p. 117.  
 Barrel. O. R. Emmrich. No. 924,649; June 15; Sp. p. 3349; Gaz. vol. 143; p. 577.  
 Barrel. T. L. De Land, Jr. No. 925,759; June 22; Sp. p. 5604; Gaz. vol. 143; p. 972.  
 Barrel. W. W. Lytle. No. 926,502; June 29; Sp. p. 7100; Gaz. vol. 143; p. 1253.  
 Barrel. D. Hughes. No. 926,569; June 29; Sp. p. 7214; Gaz. vol. 143; p. 1276.  
 Barrel. W. A. Thomas and J. P. Pelegrin. No. 926,623; June 29; Sp. p. 7333; Gaz. vol. 143; p. 1293.  
 Barrel. C. N. Johnson. No. 933,307; Sept. 7; Sp. p. 621; Gaz. vol. 146; p. 96.  
 Barrel. J. W. Dennead. No. 934,051; Sept. 14; Sp. p. 2193; Gaz. vol. 146; p. 363.  
 Barrel-blank-making machine. J. C. Palmer. No. 917,352; Apr. 6; Sp. p. 807; Gaz. vol. 141; p. 138.  
 Barrel-bodies from pulp, Apparatus for making. W. H. Decker. No. 928,247; July 20; Sp. p. 3216; Gaz. vol. 144; p. 573.  
 Barrel-bodies of paper-pulp, Apparatus for forming bilged. W. H. Decker. No. 928,249; July 20; Sp. p. 3222; Gaz. vol. 144; p. 574.  
 Barrel-bodies of paper-pulp, Apparatus for making. W. H. Decker. No. 928,248; July 20; Sp. p. 3219; Gaz. vol. 144; p. 573.  
 Barrel chamfering and crozing machine. E. F. Beugler. No. 915,065; Mar. 16; Sp. p. 2887; Gaz. vol. 140; p. 516.  
 Barrel, &c., closure. G. F. Williamson. No. 918,718; Apr. 20; Sp. p. 3665; Gaz. vol. 141; p. 650.  
 Barrel construction, Molded. J. H. George. No. 908,557; Jan. 5; Sp. p. 262; Gaz. vol. 138; p. 44.  
 Barrel, Double-walled. A. H. Handlan, Jr. No. 926,324; June 29; Sp. p. 6792; Gaz. vol. 143; p. 1195.  
 Barrel-fastener. G. R. King. No. 922,292; May 18; Sp. p. 4513; Gaz. vol. 142; p. 783.  
 Barrel-filler. H. W. Colby. No. 924,737; June 15; Sp. p. 3539; Gaz. vol. 143; p. 606.  
 Barrel-filling machines, Cut-off for. W. A. Hardwick. No. 923,833; June 8; Sp. p. 1666; Gaz. vol. 143; p. 276.  
 Barrel-head. A. M. Olson and P. Libak. No. 910,015; Jan. 19; Sp. p. 3190; Gaz. vol. 138; p. 589.  
 Barrel-head. I. Francis. No. 916,854; Mar. 30; Sp. p. 6450; Gaz. vol. 140; p. 1151.  
 Barrel-head. J. Leicht. No. 919,441; Apr. 27; Sp. p. 5329; Gaz. vol. 141; p. 921.  
 Barrel head and hoop fastener. Z. Dixon. No. 938,650; Nov. 2; Sp. p. 450; Gaz. vol. 148; p. 70.  
 Barrel-head, &c., fastener. A. Wollner. No. 916,819; Mar. 30; Sp. p. 6382; Gaz. vol. 140; p. 1141.  
 Barrel-head turner. V. J. Houlihan. No. 910,542; Jan. 26; Sp. p. 4317; Gaz. vol. 138; p. 793.  
 Barrel-heads in place, Means for holding. W. H. Decker. No. 941,562; Nov. 30; Sp. p. 6858; Gaz. vol. 148; p. 1162.  
 Barrel-hooping machine. J. Heney. No. 926,187; June 29; Sp. p. 6508; Gaz. vol. 143; p. 1151.  
 Barrel, keg, &c., tap. C. E. Mentzer. No. 918,453; Apr. 13; Sp. p. 3033; Gaz. vol. 141; p. 533.  
 Barrel-leveling machine. J. S. Oram. No. 915,106; Mar. 16; Sp. p. 3006; Gaz. vol. 140; p. 530.  
 Barrel-making machine. E. F. Beugler. No. 941,404; Nov. 30; Sp. p. 6537; Gaz. vol. 148; p. 1110.  
 Barrel, Metallic. S. M. Wright. No. 924,520; June 8; Sp. p. 3055; Gaz. vol. 143; p. 500.  
 Barrel, Metallic. A. T. Kruse. No. 943,687; Dec. 21; Sp. p. 3575; Gaz. vol. 149; p. 623.  
 Barrel or cask, Metal. R. H. Hackney. No. 919,345; Apr. 27; Sp. p. 5121; Gaz. vol. 141; p. 888.  
 Barrel or keg. J. F. Craven. No. 943,815; Dec. 21; Sp. p. 3835; Gaz. vol. 149; p. 667.  
 Barrel or keg and head therefor, Wooden. J. W. Brainard. No. 914,787; Mar. 9; Sp. p. 2384; Gaz. vol. 140; p. 460.  
 Barrel-press. J. Heagerty. No. 919,720; Apr. 27; Sp. p. 5919; Gaz. vol. 141; p. 1016.  
 Barrel-press. J. Temi. No. 928,562; July 20; Sp. p. 3867; Gaz. vol. 144; p. 677.  
 Barrel-scrubber roller. A. Birnbaum. No. 929,379; July 27; Sp. p. 5582; Gaz. vol. 144; p. 979.  
 Barrel-stand. R. Dumesnil. No. 908,760; Jan. 5; Sp. p. 704; Gaz. vol. 135; p. 109.  
 Barrel-support. H. K. Loskamp. No. 921,855; May 18; Sp. p. 3647; Gaz. vol. 142; p. 642.  
 Barrel-trussing machine. T. A. Sullivan and J. A. Young. No. 909,705; Jan. 12; Sp. p. 2563; Gaz. vol. 138; p. 454.  
 Barrels and other like containers, Lining for. T. Scherf. No. 936,817; Oct. 12; Sp. p. 2535; Gaz. vol. 147; p. 424.  
 Barrels, Machine for cutting head-linings for. L. Y. Williams. No. 909,045; Jan. 5; Sp. p. 1247; Gaz. vol. 138; p. 200.  
 Barrels, Manufacturing. O. Schubert. No. 929,715; Aug. 3; Sp. p. 159; Gaz. vol. 145; p. 28.  
 Barrette. J. Wilcox. No. 916,079; Mar. 23; Sp. p. 4952; Gaz. vol. 140; p. 878.  
 Barrette. C. H. Howe. No. 921,702; May 18; Sp. p. 3320; Gaz. vol. 142; p. 591.  
 Barrette. W. S. Bechtold. No. 922,838; May 25; Sp. p. 5653; Gaz. vol. 142; p. 900.  
 Barrette. E. B. Kingman. No. 931,877; Aug. 24; Sp. p. 4765; Gaz. vol. 145; p. 824.  
 Barrette or hair-retainer. G. G. Sinclair. No. 918,783; Apr. 20; Sp. p. 3779; Gaz. vol. 141; p. 671.  
 Barrettes, combs, and the like, Die for. M. Falk. No. 944,422; Dec. 28; Sp. p. 5132; Gaz. vol. 149; p. 900.  
 Barrow. W. Paton. No. 924,822; June 15; Sp. p. 3710; Gaz. vol. 143; p. 636.  
 Barrow, Had-. W. F. F. Nehls. No. 937,632; Oct. 19; Sp. p. 4238; Gaz. vol. 147; p. 722.  
 Base-hall. G. A. Reach. No. 917,658; Apr. 6; Sp. p. 1353; Gaz. vol. 141; p. 238.  
 Base-ball. B. F. Shibe. No. 924,696; June 15; Sp. p. 3447; Gaz. vol. 143; p. 593.

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- Base-ball. B. F. Shibe. No. 932,911; Aug. 31; Sp. p. 6918; Gaz. vol. 145; p. 1189.  
 Base-ball curver. W. W. Winquest. No. 912,763; Feb. 16; Sp. p. 3642; Gaz. vol. 139; p. 642.  
 Base for cuts, Adjustable. G. K. Hurlbut and C. C. Williams. No. 917,947; Apr. 13; Sp. p. 1988; Gaz. vol. 141; p. 362.  
 Basin. W. A. Bloom. No. 917,529; Apr. 6; Sp. p. 1120; Gaz. vol. 141; p. 196.  
 Basin alarm, Catch-. M. F. Deininger. No. 933,237; Sept. 7; Sp. p. 473; Gaz. vol. 146; p. 73.  
 Basin and trap, Catch-. J. R. Williams. No. 913,338; Feb. 23; Sp. p. 4776; Gaz. vol. 139; p. 855.  
 Basin plug, Wash-. D. J. Winfree. No. 936,393; Oct. 12; Sp. p. 1654; Gaz. vol. 147; p. 280.  
 Basin, Toilet-. W. Rieck. No. 931,489; Aug. 17; Sp. p. 3934; Gaz. vol. 145; p. 679.  
 Basin, Wash-. J. W. Sharp, Jr. No. 941,540; Nov. 30; Sp. p. 6819; Gaz. vol. 148; p. 1154.  
 Basins, &c., Stopper for wash-. C. Meidau. No. 934,330; Sept. 14; Sp. p. 2751; Gaz. vol. 146; p. 457.  
 Basins, tubs, and the like, Waste and overflow for. C. F. Longfellow. No. 937,079; Oct. 19; Sp. p. 3068; Gaz. vol. 147; p. 539.  
 Basket. N. G. Jewell. No. 912,851; Feb. 16; Sp. p. 3801; Gaz. vol. 139; p. 669.  
 Basket. J. B. Kenny. No. 920,480; May 4; Sp. p. 777; Gaz. vol. 142; p. 126.  
 Basket. C. S. Mooney. No. 938,497; Nov. 2; Sp. p. 109; Gaz. vol. 148; p. 17.  
 Basket-ball device, Toy. S. J. Hartnell. No. 910,811; Jan. 26; Sp. p. 4883; Gaz. vol. 138; p. 881.  
 Basket, Coal-. H. G. Mitchell. No. 944,807; Dec. 28; Sp. p. 5993; Gaz. vol. 149; p. 1031.  
 Basket, Collapsible floating. A. Lehmann. No. 911,661; Feb. 9; Sp. p. 1275; Gaz. vol. 139; p. 239.  
 Basket, Desk-. U. K. Hall. No. 921,694; May 18; Sp. p. 3307; Gaz. vol. 142; p. 588.  
 Basket, Folding. W. A. Snyder. No. 932,826; Aug. 31; Sp. p. 6774; Gaz. vol. 145; p. 1162.  
 Basket for holding dishes and plates. A. Insinger. No. 928,762; July 20; Sp. p. 4272; Gaz. vol. 144; p. 744.  
 Basket, Fruit-. J. Wagner. No. 934,485; Sept. 21; Sp. p. 3061; Gaz. vol. 146; p. 533.  
 Basket-handle. E. G. Hannon. No. 913,885; Mar. 2; Sp. p. 457; Gaz. vol. 140; p. 75.  
 Basket-handle. O. H. Gillespie. No. 935,864; Sept. 28; Sp. p. 4810; Gaz. vol. 146; p. 850.  
 Basket-making machine. W. F. Barnes. No. 934,877; Sept. 21; Sp. p. 3819; Gaz. vol. 146; p. 662.  
 Basket-rack. G. L. Walters. No. 932,199; Aug. 24; Sp. p. 5471; Gaz. vol. 145; p. 932.  
 Basket, Work-. F. D. Miller. No. 928,207; July 13; Sp. p. 3110; Gaz. vol. 144; p. 530.  
 Baskets, boxes, &c., Corner-iron for. F. W. Goedeke. No. 939,005; Nov. 2; Sp. p. 1196; Gaz. vol. 148; p. 191.  
 Baskets, Machine for making fruit-. J. E. Lynam. No. 914,358; Mar. 2; Sp. p. 1504; Gaz. vol. 140; p. 232.  
 Baskets, Reversible cover-fastening device for. D. P. Moore. No. 917,473; Apr. 6; Sp. p. 1016; Gaz. vol. 141; p. 177.  
 Bat-making machine. D. Haynes. No. 930,285; Aug. 3; Sp. p. 1343; Gaz. vol. 145; p. 222.  
 Bath and basin fitting. H. M. Weaver. No. 916,643; Mar. 30; Sp. p. 6067; Gaz. vol. 140; p. 1087.  
 Bath apparatus, Vapor-. B. Andersen. No. 927,629; July 13; Sp. p. 1928; Gaz. vol. 144; p. 338.  
 Bath appliance, Electric-light. E. Collins. No. 924,040; June 8; Sp. p. 2052; Gaz. vol. 143; p. 341.  
 Bath-cabinet. J. Hermann. No. 910,381; Jan. 19; Sp. p. 3984; Gaz. vol. 138; p. 716.  
 Bath-cabinet. T. Papworth. No. 911,434; Feb. 2; Sp. p. 789; Gaz. vol. 139; p. 137.  
 Bath-cabinet. A. B. Renahan. No. 944,911; Dec. 28; Sp. p. 6204; Gaz. vol. 149; p. 1067.  
 Bath cabinet, Vapor-. L. C. Jaques. No. 911,727; Feb. 9; Sp. p. 1398; Gaz. vol. 139; p. 260.  
 Bath-cocks, Supply-pipe connection for. J. H. Glauber. No. 922,471; May 25; Sp. p. 4891; Gaz. vol. 142; p. 871.  
 Bath device, Spray or needle. W. E. Holmes. No. 944,611; Dec. 28; Sp. p. 5577; Gaz. vol. 149; p. 967.  
 Bath or basin waste. H. M. Weaver. No. 913,077; Feb. 23; Sp. p. 4238; Gaz. vol. 139; p. 767.  
 Bath-tub. C. F. Ike. No. 920,575; May 4; Sp. p. 974; Gaz. vol. 142; p. 159.  
 Bath tub and cabinet, Combined. C. W. Peterson. No. 909,329; Jan. 12; Sp. p. 1827; Gaz. vol. 138; p. 328.  
 Bath-tub attachment. M. and N. L. Gilmore. No. 919,848; Apr. 27; Sp. p. 6204; Gaz. vol. 141; p. 1059.  
 Bath-tub attachment. E. M. Shipp. No. 937,476; Oct. 19; Sp. p. 3942; Gaz. vol. 147; p. 669.  
 Bath-tub attachment. A. Bulfin. No. 939,797; Nov. 9; Sp. p. 2984; Gaz. vol. 148; p. 491.  
 Bath-tub leg. W. H. Lose. No. 918,341; Apr. 13; Sp. p. 2800; Gaz. vol. 141; p. 496.  
 Bath-tub leg. W. H. Lose. No. 933,066; Oct. 26; Sp. p. 5150; Gaz. vol. 147; p. 885.  
 Bath-tub foothold. J. H. Pugh. No. 921,734; May 18; Sp. p. 3377; Gaz. vol. 142; p. 601.  
 Bath-tub rims, Handhold for. J. H. Pugh. No. 921,733; May 18; Sp. p. 3376; Gaz. vol. 142; p. 601.  
 Bath-tub seat. J. A. Skogsberg. No. 941,544; Nov. 30; Sp. p. 6825; Gaz. vol. 148; p. 1156.  
 Bath-tub spraying attachment. R. R. Sandham. No. 917,157; Apr. 6; Sp. p. 405; Gaz. vol. 141; p. 71.  
 Bath-tub supply and waste. D. C. Charnois. No. 912,990; Feb. 23; Sp. p. 4070; Gaz. vol. 139; p. 738.  
 Bath-tub trap and outlet construction. J. F. Eichenlaub. No. 908,651; Jan. 5; Sp. p. 481; Gaz. vol. 138; p. 75.  
 Bath-tub waste and overflow connection. J. F. Eichenlaub. No. 909,170; Jan. 12; Sp. p. 1527; Gaz. vol. 138; p. 276.  
 Baths, Machine for dipping articles into fluid-. H. E. Dill and W. P. Marsh. No. 936,238; Oct. 5; Sp. p. 1312; Gaz. vol. 147; p. 201.  
 Bathing-suit. F. E. Lilledahl. No. 916,731; Mar. 30; Sp. p. 6223; Gaz. vol. 140; p. 1114.  
 Bathing-suit. H. O. Netz. No. 936,021; Oct. 5; Sp. p. 893; Gaz. vol. 147; p. 134.  
 Bathing-suit, Buoyant. P. J. Griffin. No. 944,782; Dec. 28; Sp. p. 5931; Gaz. vol. 149; p. 1023.  
 Batteries, Apparatus for automatically throwing out the resistance in charging storage. G. Pattberg. No. 921,447; May 11; Sp. p. 2786; Gaz. vol. 142; p. 479.  
 Batteries, Charging lead-peroxid-zinc storage. R. Ziegenberg. No. 912,351; Feb. 16; Sp. p. 2747; Gaz. vol. 139; p. 501.  
 Batteries, Container for secondary. E. L. Oppermann. No. 932,637; Aug. 31; Sp. p. 6378; Gaz. vol. 145; p. 1100.  
 Batteries, Current-testing device for electric. W. C. Hood. No. 930,474; Aug. 10; Sp. p. 1711; Gaz. vol. 145; p. 309.  
 Batteries, Electrolyte for primary. J. Whitcomb. No. 918,623; Apr. 20; Sp. p. 3408; Gaz. vol. 141; p. 616.  
 Batteries, Method and apparatus for reinvigating dry-cell. H. B. Ramey. No. 913,563; Feb. 23; Sp. p. 5263; Gaz. vol. 139; p. 932.  
 Batteries, Preparing alkaline electrolytes for storage. D. P. Perry. No. 931,082; Aug. 17; Sp. p. 3075; Gaz. vol. 145; p. 539.  
 Battery: See Dry battery; Electric battery; Electromagnetic stamp-battery; Galvanic battery; Primary battery; Secondary battery; Storage battery.  
 Battery. G. L. Patterson and G. H. Hopper. No. 924,575; June 8; Sp. p. 3173; Gaz. vol. 143; p. 518.  
 Battery. W. Gardiner. No. 938,312; Oct. 26; Sp. p. 5690; Gaz. vol. 147; p. 968.  
 Battery and holder. G. L. Patterson. No. 924,574; June 8; Sp. p. 3171; Gaz. vol. 143; p. 518.  
 Battery and holder therefor. G. L. Patterson. No. 924,573; June 8; Sp. p. 3170; Gaz. vol. 143; p. 518.  
 Battery box and holder. G. L. Patterson. No. 924,577; June 8; Sp. p. 3177; Gaz. vol. 143; p. 519.  
 Battery box or tray and handle therefor. J. N. Davis. No. 921,808; May 18; Sp. p. 3530; Gaz. vol. 142; p. 626.  
 Battery-box terminal connection. G. L. Patterson. No. 924,576; June 8; Sp. p. 3176; Gaz. vol. 143; p. 519.  
 Battery case, Glass storage-. F. L. O. Wadsworth. No. 938,445; Oct. 26; Sp. p. 5690; Gaz. vol. 147; p. 1015.  
 Battery cell, Dry-. G. N. Eastman. No. 912,946; Feb. 16; Sp. p. 3964; Gaz. vol. 139; p. 698.  
 Battery cell, Dry-. W. S. Doe. No. 917,560; Apr. 6; Sp. p. 1172; Gaz. vol. 141; p. 204.  
 Battery-cells, Gas-controlling apparatus for. O. D. Apple. No. 932,087; Aug. 24; Sp. p. 5242; Gaz. vol. 145; p. 894.  
 Battery-charging apparatus. F. E. Case. No. 920,103; Apr. 27; Sp. p. 6749; Gaz. vol. 141; p. 1143.  
 Battery-charging system. W. I. Thomson. No. 911,850; Feb. 9; Sp. p. 1610; Gaz. vol. 139; p. 299.  
 Battery-chute. C. O. Poor. No. 916,011; Mar. 23; Sp. p. 4830; Gaz. vol. 140; p. 855.  
 Battery connection. O. E. Pettie. No. 924,826; June 15; Sp. p. 3723; Gaz. vol. 143; p. 637.  
 Battery connector attachment. J. F. Siems. No. 910,965; Jan. 26; Sp. p. 5159; Gaz. vol. 138; p. 930.  
 Battery-contact. J. H. Gugler. No. 914,038; Mar. 2; Sp. p. 835; Gaz. vol. 140; p. 128.  
 Battery-contact. J. H. Gugler. No. 928,963; July 27; Sp. p. 4678; Gaz. vol. 144; p. 838.  
 Battery-contact. J. H. Gugler. No. 938,663; Nov. 2; Sp. p. 484; Gaz. vol. 148; p. 74.  
 Battery-covering. G. E. Andrews. No. 932,841; Aug. 31; Sp. p. 6797; Gaz. vol. 145; p. 1166.  
 Battery-discharge regulator. E. J. Murphy. No. 909,813; Jan. 12; Sp. p. 2777; Gaz. vol. 138; p. 489.  
 Battery-element support. C. B. Schoenmehl. No. 922,731; May 25; Sp. p. 5418; Gaz. vol. 142; p. 955.  
 Battery-element support. C. B. Schoenmehl. No. 943,275; Dec. 14; Sp. p. 2675; Gaz. vol. 149; p. 452.  
 Battery elements, Coupling for. F. A. Decker. No. 944,078; Dec. 21; Sp. p. 4398; Gaz. vol. 149; p. 758.  
 Battery elements, Preparing storage-. D. P. Perry. No. 931,081; Aug. 17; Sp. p. 3074; Gaz. vol. 145; p. 539.  
 Battery-filling machine. C. J. Coleman. No. 925,300; June 15; Sp. p. 4656; Gaz. vol. 143; p. 795.  
 Battery-grid. J. K. Pumpelly. No. 927,812; July 13; Sp. p. 2307; Gaz. vol. 144; p. 398.  
 Battery grid, Storage-. W. M. Thayer. No. 918,221; Apr. 13; Sp. p. 2561; Gaz. vol. 141; p. 456.  
 Battery grids, Tool or machine for making storage-. R. N. Chamberlain. No. 929,386; July 27; Sp. p. 5592; Gaz. vol. 144; p. 980.  
 Battery-holder. C. T. Mason. No. 912,705; Feb. 16; Sp. p. 3486; Gaz. vol. 139; p. 622.  
 Battery-holder. S. A. Brown. No. 925,452; June 22; Sp. p. 4948; Gaz. vol. 143; p. 873.  
 Battery jars, Lining for storage-. A. J. Meier. No. 941,720; Nov. 30; Sp. p. 7203; Gaz. vol. 148; p. 1214.  
 Battery jars, Vented stopper for storage-. B. Ford. No. 915,339; Mar. 16; Sp. p. 3473; Gaz. vol. 140; p. 606.



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- Battery-plate. G. B. Rinehart. No. 909,673; Jan. 12; Sp. p. 2497; Gaz. vol. 138; p. 443.  
 Battery-plate. C. W. Bender. No. 915,063; Mar. 16; Sp. p. 2885; Gaz. vol. 140; p. 515.  
 Battery plate, Bifunctional storage-. A. O. Tate. No. 926,710; June 29; Sp. p. 7498; Gaz. vol. 143; p. 1322.  
 Battery plate, Secondary-. W. Morrison. No. 916,576; Mar. 30; Sp. p. 5948; Gaz. vol. 140; p. 1067.  
 Battery plate, Storage-. E. W. Smith. No. 911,168; Feb. 2; Sp. p. 288; Gaz. vol. 139; p. 51.  
 Battery plate, Storage-. B. Ford. No. 921,391; May 11; Sp. p. 2681; Gaz. vol. 142; p. 460.  
 Battery-plates, Making. G. J. Miller. No. 926,278; June 29; Sp. p. 6688; Gaz. vol. 143; p. 1180.  
 Battery plates, Making storage-. W. Morrison. No. 917,787; Apr. 13; Sp. p. 1659; Gaz. vol. 141; p. 307.  
 Battery plates, Preparing storage-. W. Morrison. No. 933,316; Sept. 28; Sp. p. 4712; Gaz. vol. 146; p. 836.  
 Battery-posting machine, Dry-. W. G. Waitt. No. 921,186; May 11; Sp. p. 2225; Gaz. vol. 142; p. 392.  
 Battery, Secondary. L. H. Flanders. No. 909,572; Jan. 12; Sp. p. 2302; Gaz. vol. 138; p. 408.  
 Battery-supporting mechanism. T. V. Buckwalter. No. 929,118; July 27; Sp. p. 5002; Gaz. vol. 144; p. 890.  
 Battery system, Combined primary and secondary. J. H. Gugler. No. 940,008; Nov. 16; Sp. p. 3434; Gaz. vol. 148; p. 592.  
 Battery systems, Apparatus for ventilating and cooling storage-. S. Lake. No. 925,708; June 22; Sp. p. 5472; Gaz. vol. 143; p. 955.  
 Battery tank, Storage-. T. A. Willard. No. 942,990; Dec. 14; Sp. p. 2059; Gaz. vol. 149; p. 356.  
 Beaded line. J. F. Shiel. No. 925,237; June 15; Sp. p. 4544; Gaz. vol. 143; p. 776.  
 Beaking-mill. J. F. Kennedy. No. 920,067; Apr. 27; Sp. p. 6647; Gaz. vol. 141; p. 1131.  
 Beam-notching die. W. G. Reid. No. 912,324; Feb. 16; Sp. p. 2686; Gaz. vol. 139; p. 491.  
 Beam, Pilot-. C. C. Hogen. No. 928,200; July 13; Sp. p. 3096; Gaz. vol. 144; p. 527.  
 Beam-shaping press. N. H. Davis. No. 930,460; Aug. 10; Sp. p. 1684; Gaz. vol. 145; p. 304.  
 Beam-truss. J. S. Gourlay. No. 922,885; May 25; Sp. p. 5770; Gaz. vol. 142; p. 1006.  
 Beam, Walking-. H. Shannon. No. 914,608; Mar. 9; Sp. p. 2000; Gaz. vol. 140; p. 341.  
 Bean cutter, String-. Z. P. Townsend. No. 925,614; June 22; Sp. p. 5269; Gaz. vol. 143; p. 926.  
 Bean-picking machine. G. F. Crippen. No. 937,695; Oct. 19; Sp. p. 4351; Gaz. vol. 147; p. 742.  
 Bean-separator. C. A. Croel. No. 933,629; Sept. 7; Sp. p. 1361; Gaz. vol. 146; p. 203.  
 Bean-separator. F. C. Britt. No. 941,305; Nov. 23; Sp. p. 6307; Gaz. vol. 148; p. 1055.  
 Bean-sorter. O. Sutter. No. 920,499; May 4; Sp. p. 815; Gaz. vol. 142; p. 132.  
 Beans, Apparatus for baking. F. A. Calley. No. 909,988; Jan. 19; Sp. p. 3144; Gaz. vol. 138; p. 581.  
 Bearing. F. W. Salmon. No. 914,520; Mar. 9; Sp. p. 1828; Gaz. vol. 140; p. 311.  
 Bearing. W. F. Rodman. No. 930,232; Aug. 3; Sp. p. 1253; Gaz. vol. 145; p. 206.  
 Bearing. L. C. Trent. No. 937,974; Oct. 26; Sp. p. 4949; Gaz. vol. 147; p. 853.  
 Bearing, Adjustable. M. Volland. No. 921,571; May 11; Sp. p. 3021; Gaz. vol. 142; p. 519.  
 Bearing, Adjustable flexible. M. A. Ganiard and E. R. Bailey. No. 929,581; July 27; Sp. p. 5926; Gaz. vol. 144; p. 1042.  
 Bearing and lubricator, Combined. E. M. Crozier. No. 935,465; Sept. 28; Sp. p. 4998; Gaz. vol. 146; p. 883.  
 Bearing, Antifriction-. G. Matta. No. 913,529; Feb. 23; Sp. p. 5161; Gaz. vol. 139; p. 920.  
 Bearing, Antifriction-. A. F. Rockwell. No. 921,464; May 11; Sp. p. 2815; Gaz. vol. 142; p. 484.  
 Bearing, Antifriction-. J. E. Downer. No. 922,864; May 25; Sp. p. 5709; Gaz. vol. 142; p. 999.  
 Bearing, Antifriction-. H. Froboese. No. 928,956; July 27; Sp. p. 4658; Gaz. vol. 144; p. 836.  
 Bearing, Antifriction-. F. Henzelmann. No. 929,427; July 27; Sp. p. 5653; Gaz. vol. 144; p. 992.  
 Bearing, Antifriction-. H. Hess. No. 929,762; Aug. 3; Sp. p. 275; Gaz. vol. 145; p. 47.  
 Bearing, Antifriction-. H. Hess. No. 929,851; Aug. 3; Sp. p. 488; Gaz. vol. 145; p. 78.  
 Bearing, Antifriction-. C. A. Latham. No. 937,251; Oct. 26; Sp. p. 5553; Gaz. vol. 147; p. 949.  
 Bearing, Antifriction-. I. Moss. No. 939,060; Nov. 2; Sp. p. 1304; Gaz. vol. 148; p. 211.  
 Bearing, Antifriction roller-. J. Newmann. No. 921,442; May 11; Sp. p. 2779; Gaz. vol. 142; p. 478.  
 Bearing, Ball-. G. O. Leopold. No. 908,872; Jan. 5; Sp. p. 912; Gaz. vol. 138; p. 145.  
 Bearing, Ball-. S. R. Coppins. No. 918,422; Apr. 13; Sp. p. 2953; Gaz. vol. 141; p. 520.  
 Bearing, Ball-. C. R. James. No. 920,149; May 4; Sp. p. 113; Gaz. vol. 142; p. 17.  
 Bearing, Ball-. J. C. Dowell. No. 924,440; June 8; Sp. p. 2900; Gaz. vol. 143; p. 475.  
 Bearing, Ball-. H. Hess. No. 924,904; June 15; Sp. p. 3891; Gaz. vol. 143; p. 664.  
 Bearing, Ball-. R. S. Phillips, M. Harris, and J. F. Dearing. No. 925,376; June 15; Sp. p. 4784; Gaz. vol. 143; p. 817.  
 Bearing, Ball-. K. Schmidt. No. 926,294; June 29; Sp. p. 6717; Gaz. vol. 143; p. 1185.  
 Bearing, Ball-. E. Sachs. No. 926,771; July 6; Sp. p. 129; Gaz. vol. 144; p. 21.  
 Bearing, Ball-. H. Borchardt. No. 927,937; July 13; Sp. p. 2581; Gaz. vol. 144; p. 440.  
 Bearing, Ball-. F. Henzelmann. No. 929,426; July 27; Sp. p. 5652; Gaz. vol. 144; p. 992.  
 Bearing, Ball-. H. Hess. No. 930,599; Aug. 10; Sp. p. 2011; Gaz. vol. 145; p. 352.  
 Bearing, Ball-. H. La Casse. No. 932,144; Aug. 24; Sp. p. 5354; Gaz. vol. 145; p. 913.  
 Bearing, Ball-. M. Backstrom. No. 935,452; Sept. 28; Sp. p. 4973; Gaz. vol. 146; p. 879.  
 Bearing, Ball-. O. H. Karcher. No. 937,153; Oct. 19; Sp. p. 3236; Gaz. vol. 147; p. 564.  
 Bearing, Ball-. C. F. Jenkins. No. 937,811; Oct. 26; Sp. p. 4613; Gaz. vol. 147; p. 799.  
 Bearing, Ball-. W. E. Cane. No. 939,391; Nov. 9; Sp. p. 2102; Gaz. vol. 148; p. 351.  
 Bearing, Ball-. G. A. W. Koch. No. 942,392; Dec. 7; Sp. p. 746; Gaz. vol. 149; p. 122.  
 Bearing, Ball-. H. Hess. No. 944,863; Dec. 28; Sp. p. 6120; Gaz. vol. 149; p. 1051.  
 Bearing-box, Adjustable. J. F. and H. E. Dodge. No. 919,700; Apr. 27; Sp. p. 5881; Gaz. vol. 141; p. 1010.  
 Bearing, Car-axle. G. A. Woodman. No. 920,802; May 4; Sp. p. 1438; Gaz. vol. 142; p. 232.  
 Bearing casings, Detachable lining for roller-. C. I. Shirley. No. 926,966; July 6; Sp. p. 540; Gaz. vol. 144; p. 88.  
 Bearing, Center-. H. S. Rader. No. 939,443; Nov. 9; Sp. p. 2217; Gaz. vol. 148; p. 368.  
 Bearing, Combined step and journal. A. Dehne. No. 924,747; June 15; Sp. p. 3558; Gaz. vol. 143; p. 610.  
 Bearing, Double-thrust ball-. A. Hirth. No. 930,600; Aug. 10; Sp. p. 2012; Gaz. vol. 145; p. 353.  
 Bearing, Foot-step ball-. M. Gohlke. No. 933,974; Sept. 14; Sp. p. 2060; Gaz. vol. 146; p. 339.  
 Bearing for cars, Center-. J. C. Barber. No. 937,038; Oct. 19; Sp. p. 2994; Gaz. vol. 147; p. 525.  
 Bearing for centrifugal separators. T. S. Patterson. No. 914,181; Mar. 2; Sp. p. 1133; Gaz. vol. 140; p. 177.  
 Bearing for furrow-opening disks. F. R. Packham. No. 944,045; Dec. 21; Sp. p. 4328; Gaz. vol. 149; p. 746.  
 Bearing for grain-drills, &c. S. E. Davis and H. B. Bozard. No. 934,291; Sept. 14; Sp. p. 2671; Gaz. vol. 146; p. 444.  
 Bearing for high speeds, Air-. S. Z. de Ferranti. No. 930,851; Aug. 10; Sp. p. 2523; Gaz. vol. 145; p. 436.  
 Bearing for rotary journals, Counterbalanced. G. P. Herrick. No. 928,126; July 13; Sp. p. 2931; Gaz. vol. 144; p. 501.  
 Bearing for shafts rotating with great speed. C. A. and O. W. Hult. No. 930,760; Aug. 10; Sp. p. 2341; Gaz. vol. 145; p. 405.  
 Bearing for the shafts of delicate instruments. J. Johnson. No. 923,184; June 1; Sp. p. 136; Gaz. vol. 143; p. 22.  
 Bearing for trough-conveyers, &c., Roller-. H. Bentley. No. 941,972; Nov. 30; Sp. p. 7731; Gaz. vol. 148; p. 1302.  
 Bearing for upright shafts, Step-. W. H. Larrabee. No. 931,069; Aug. 17; Sp. p. 3052; Gaz. vol. 145; p. 535.  
 Bearing for vertical-shaft turbo-generators, Middle. O. Jungren. No. 922,593; May 25; Sp. p. 5141; Gaz. vol. 142; p. 911.  
 Bearing for vertical shafts, Ball-. S. S. Eveland. No. 935,648; Oct. 5; Sp. p. 44; Gaz. vol. 147; p. 9.  
 Bearing, Friction-. C. J. Lang. No. 911,412; Feb. 2; Sp. p. 752; Gaz. vol. 139; p. 131.  
 Bearing, Friction-relief. C. D. Rice. No. 912,417; Feb. 16; Sp. p. 2878; Gaz. vol. 139; p. 522.  
 Bearing, Gate-. I. C. Rankin. No. 918,698; Apr. 20; Sp. p. 3623; Gaz. vol. 141; p. 642.  
 Bearing-guard. B. M. W. Hanson. No. 909,893; Jan. 19; Sp. p. 2942; Gaz. vol. 138; p. 547.  
 Bearing, Hub-. H. L. Hannaford. No. 917,058; Apr. 6; Sp. p. 195; Gaz. vol. 141; p. 36.  
 Bearing-protecting device, End-. W. B. Hodge. No. 919,171; Apr. 20; Sp. p. 4555; Gaz. vol. 141; p. 796.  
 Bearing retaining collar and cap, Ball-. W. R. Clarkson. No. 932,247; Aug. 24; Sp. p. 5563; Gaz. vol. 145; p. 947.  
 Bearing, Roller-. L. P. Alford. No. 915,649; Mar. 16; Sp. p. 4114; Gaz. vol. 140; p. 711.  
 Bearing, Roller-. H. W. Alden. No. 921,656; May 18; Sp. p. 3225; Gaz. vol. 142; p. 575.  
 Bearing, Roller-. F. M. Freeburg. No. 922,124; May 18; Sp. p. 4170; Gaz. vol. 142; p. 729.  
 Bearing, Roller-. S. Kaye. No. 922,288; May 18; Sp. p. 4507; Gaz. vol. 142; p. 782.  
 Bearing, Roller-. E. L. Sharpneck. No. 923,716; June 1; Sp. p. 1328; Gaz. vol. 143; p. 206.  
 Bearing, Roller-. C. I. Shirley. No. 924,387; June 8; Sp. p. 2816; Gaz. vol. 143; p. 458.  
 Bearing, Roller-. J. E. Parrish. No. 927,160; July 6; Sp. p. 953; Gaz. vol. 144; p. 155.  
 Bearing, Roller-. A. Schilling. No. 928,800; July 20; Sp. p. 4343; Gaz. vol. 144; p. 757.  
 Bearing, Roller-. A. T. Killian. No. 931,931; Aug. 24; Sp. p. 4904; Gaz. vol. 145; p. 842.  
 Bearing, Roller-. J. H. Cook. No. 932,760; Aug. 31; Sp. p. 6636; Gaz. vol. 145; p. 1142.  
 Bearing, Roller-. O. E. Michaud. No. 933,320; Sept. 7; Sp. p. 647; Gaz. vol. 146; p. 100.  
 Bearing, Roller-. L. J. Aldridge. No. 933,735; Sept. 14; Sp. p. 1599; Gaz. vol. 146; p. 263.  
 Bearing, Roller-. J. Newmann. No. 934,621; Sept. 21; Sp. p. 3327; Gaz. vol. 146; p. 579.  
 Bearing, Roller-. H. V. Smith. No. 936,485; Oct. 12; Sp. p. 1879; Gaz. vol. 147; p. 311.

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 Bearing, Roller. O. E. Michaud. No. 939,056; Nov. 2; Sp. p. 1296; Gaz. vol. 148; p. 209.  
 Bearing, Roller. H. Hess. No. 941,636; Nov. 30; Sp. p. 7006; Gaz. vol. 148; p. 1185.  
 Bearing, Roller. F. M. Foote. No. 942,252; Dec. 7; Sp. p. 479; Gaz. vol. 149; p. 75.  
 Bearing, Roller. W. Vanmanen. No. 943,128; Dec. 14; Sp. p. 2375; Gaz. vol. 149; p. 403.  
 Bearing, Roller. M. Schlus. No. 943,570; Dec. 14; Sp. p. 3286; Gaz. vol. 149; p. 554.  
 Bearing, Roller. A. L. Moore. No. 944,684; Dec. 28; Sp. p. 5707; Gaz. vol. 149; p. 990.  
 Bearing, Roller center. J. F. O'Connor. No. 940,819; Nov. 23; Sp. p. 5275; Gaz. vol. 148; p. 895.  
 Bearing, Roller side. A. Stucki. No. 930,901; Aug. 10; Sp. p. 2638; Gaz. vol. 145; p. 452.  
 Bearing, Roller side. J. M. Coleman. No. 935,893; Oct. 5; Sp. p. 629; Gaz. vol. 147; p. 91.  
 Bearing, Roller side. J. F. O'Connor. No. 940,353; Nov. 16; Sp. p. 4230; Gaz. vol. 148; p. 713.  
 Bearing, Shaft. R. F. Halliwell. No. 927,791; July 13; Sp. p. 2264; Gaz. vol. 144; p. 391.  
 Bearing, Shaft. G. Küpfer. No. 943,688; Dec. 21; Sp. p. 3577; Gaz. vol. 149; p. 623.  
 Bearing, Suspension. R. J. Bustillo y Diego. No. 910,988; Jan. 26; Sp. p. 5198; Gaz. vol. 138; p. 937.  
 Bearing, Thrust. G. Rennerfelt. No. 914,075; Mar. 2; Sp. p. 900; Gaz. vol. 140; p. 141.  
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 Bearing, Thrust. A. T. Killian. No. 939,269; Nov. 9; Sp. p. 1786; Gaz. vol. 148; p. 309.  
 Bearing, Thrust. G. Rennerfelt. No. 941,097; Nov. 23; Sp. p. 5848; Gaz. vol. 148; p. 987.  
 Bearing wheel, Roller. A. Wulff. No. 940,106; Nov. 16; Sp. p. 3687; Gaz. vol. 148; p. 628.  
 Bearing, Yielding. S. C. Anker-Holth. No. 936,753; Oct. 12; Sp. p. 2414; Gaz. vol. 147; p. 402.  
 Bearing yoke driven by shaft, Roller. P. S. Steenstrup and C. S. Lockwood. No. 926,967; July 6; Sp. p. 542; Gaz. vol. 144; p. 89.  
 Bearings, Cage for ball. W. Sonnberg. No. 918,785; Apr. 20; Sp. p. 3782; Gaz. vol. 141; p. 71.  
 Bearings, Cage for ball. E. Geschke. No. 918,996; Apr. 20; Sp. p. 4245; Gaz. vol. 141; p. 741.  
 Bearings, Lathe attachment for turning. C. Philipp. No. 922,327; May 18; Sp. p. 4578; Gaz. vol. 142; p. 795.  
 Bearings, Means for introducing balls into ball. E. Geschke. No. 941,632; Nov. 30; Sp. p. 7001; Gaz. vol. 148; p. 1184.  
 Bearings, Means for producing lubricating. F. J. Randall. No. 936,739; Oct. 12; Sp. p. 2391; Gaz. vol. 147; p. 398.  
 Bearings of textile machinery, Means for protecting roll. J. L. Patterson. No. 940,551; Nov. 16; Sp. p. 4686; Gaz. vol. 148; p. 780.  
 Beater. H. C. Jarr. No. 910,200; Jan. 19; Sp. p. 3579; Gaz. vol. 138; p. 650.  
 Beater. M. A. Vally. No. 931,100; Aug. 17; Sp. p. 3106; Gaz. vol. 145; p. 545.  
 Beater. B. Hunkler. No. 933,646; Sept. 7; Sp. p. 1384; Gaz. vol. 146; p. 208.  
 Beater and mixer. P. L. Bean. No. 938,407; Oct. 26; Sp. p. 5905; Gaz. vol. 147; p. 1002.  
 Beating and kneading machine. R. F. C. Rambeaud. No. 913,766; Mar. 2; Sp. p. 187; Gaz. vol. 140; p. 31.  
 Beating and mixing machine. F. H. Van Houten and H. M. Bachman. No. 942,116; Dec. 7; Sp. p. 189; Gaz. vol. 149; p. 28.  
 Beating-engine. A. Muirhead. No. 909,642; Jan. 12; Sp. p. 2435; Gaz. vol. 138; p. 432.  
 Beating engine, Paper. L. Jorgensen. No. 910,824; Jan. 26; Sp. p. 4903; Gaz. vol. 138; p. 885.  
 Bed. J. F. Beatty. No. 915,327; Mar. 16; Sp. p. 3450; Gaz. vol. 140; p. 602.  
 Bed. W. Shannon. No. 924,007; June 8; Sp. p. 1996; Gaz. vol. 143; p. 331.  
 Bed. W. H. Cling. No. 926,854; July 6; Sp. p. 320; Gaz. vol. 144; p. 51.  
 Bed. A. K. Taylor. No. 928,821; July 20; Sp. p. 4380; Gaz. vol. 144; p. 763.  
 Bed. J. W. Fuller. No. 933,971; Sept. 14; Sp. p. 2054; Gaz. vol. 146; p. 338.  
 Bed. S. Ellery. No. 936,873; Oct. 12; Sp. p. 2652; Gaz. vol. 147; p. 442.  
 Bed. S. Ellery. No. 936,874; Oct. 12; Sp. p. 2653; Gaz. vol. 147; p. 442.  
 Bed and bedstead for the use of invalids. J. McKay. No. 944,204; Dec. 21; Sp. p. 4651; Gaz. vol. 149; p. 797.  
 Bed and davenport, Combined. A. F. Englerth. No. 931,852; Aug. 24; Sp. p. 4711; Gaz. vol. 145; p. 817.  
 Bed and divan, Combination folding. W. E. Ingraham. No. 923,529; June 1; Sp. p. 924; Gaz. vol. 143; p. 143.  
 Bed and couche pan. D. Hogan. No. 920,463; May 4; Sp. p. 750; Gaz. vol. 142; p. 120.  
 Bed and mattress therefor, Convertible. L. B. Jeffcott. No. 926,421; June 29; Sp. p. 6964; Gaz. vol. 143; p. 1226.  
 Bed and sofa, Convertible. J. W. Campbell. No. 911,205; Feb. 2; Sp. p. 359; Gaz. vol. 139; p. 63.  
 Bed, Arm-chair. J. Lindqvist and E. I. Hillstrom. No. 937,538; Oct. 19; Sp. p. 4070; Gaz. vol. 147; p. 692.  
 Bed attachment. D. A. Carson. No. 926,849; July 6; Sp. p. 304; Gaz. vol. 144; p. 49.  
 Bed attachment. H. L. Appleton. No. 932,236; Aug. 24; Sp. p. 5540; Gaz. vol. 145; p. 943.  
 Bed attachment. P. H. Wilson. No. 942,606; Dec. 7; Sp. p. 1196; Gaz. vol. 149; p. 195.  
 Bed-bottom. W. Shannon. No. 931,149; Aug. 17; Sp. p. 3223; Gaz. vol. 145; p. 562.  
 Bed-bottom. J. F. McClatchey. No. 943,442; Dec. 14; Sp. p. 3016; Gaz. vol. 149; p. 509.  
 Bed-bottom fabric. F. W. Kinney. No. 914,958; Mar. 9; Sp. p. 2705; Gaz. vol. 140; p. 454.  
 Bed-bottom, Spring. E. A. Bedient. No. 911,642; Feb. 9; Sp. p. 1229; Gaz. vol. 139; p. 232.  
 Bed-bottom, Spring. J. W. Crowell. No. 914,246; Mar. 2; Sp. p. 1260; Gaz. vol. 140; p. 196.  
 Bed-bottom, Spring. T. Klipfel. No. 927,982; July 13; Sp. p. 2663; Gaz. vol. 144; p. 453.  
 Bed-bottom, Spring. J. L. Moore. No. 944,569; Dec. 28; Sp. p. 5483; Gaz. vol. 149; p. 951.  
 Bed-bottoms, Adjustable riser for spring. H. A. Bacon. No. 924,217; June 8; Sp. p. 2466; Gaz. vol. 143; p. 401.  
 Bed-canopy. J. N. Moody. No. 915,785; Mar. 23; Sp. p. 4408; Gaz. vol. 140; p. 782.  
 Bed, Child's folding. J. A. Linn. No. 924,619; June 8; Sp. p. 3279; Gaz. vol. 143; p. 534.  
 Bed-clamp. A. T. Sawyer. (Reissue.) No. 12,926; Mar. 9; Sp. p. 2878; Gaz. vol. 140; p. 488.  
 Bed, Cooling. H. W. Hock. No. 936,897; Oct. 12; Sp. p. 2697; Gaz. vol. 147; p. 450.  
 Bed, Couch. F. S. Sprague. No. 915,497; Mar. 16; Sp. p. 3785; Gaz. vol. 140; p. 658.  
 Bed, Couch. G. F. Sisbower. No. 923,305; June 1; Sp. p. 452; Gaz. vol. 143; p. 64.  
 Bed, Couch. H. D. Penney. No. 942,459; Dec. 7; Sp. p. 905; Gaz. vol. 149; p. 146.  
 Bed-couch. G. A. Lambert. No. 944,564; Dec. 28; Sp. p. 5476; Gaz. vol. 149; p. 950.  
 Bed-couch, Folding. G. A. Lambert. No. 944,334; Dec. 28; Sp. p. 4930; Gaz. vol. 149; p. 869.  
 Bed, Covered. L. J. Wilson. No. 928,298; July 20; Sp. p. 3361; Gaz. vol. 144; p. 591.  
 Bed-covering. W. H. Bender. No. 939,585; Nov. 9; Sp. p. 2520; Gaz. vol. 148; p. 416.  
 Bedcrib attachment. G. T. Spear. No. 918,789; Apr. 20; Sp. p. 3787; Gaz. vol. 141; p. 672.  
 Bed, Davenport. G. A. Mellon. No. 911,316; Feb. 2; Sp. p. 580; Gaz. vol. 139; p. 99.  
 Bed, Disappearing. J. Rountree. No. 931,962; Aug. 24; Sp. p. 4977; Gaz. vol. 145; p. 852.  
 Bed elevator and rest, Hospital. J. M. Hopkins. No. 923,525; June 1; Sp. p. 914; Gaz. vol. 143; p. 141.  
 Bed, Folding. P. G. Hubert. No. 915,964; Mar. 23; Sp. p. 4736; Gaz. vol. 140; p. 840.  
 Bed, Folding. E. Grant. No. 917,592; Apr. 6; Sp. p. 1232; Gaz. vol. 141; p. 216.  
 Bed, Folding. L. B. Jeffcott. No. 926,420; June 29; Sp. p. 6962; Gaz. vol. 143; p. 1226.  
 Bed, Folding. J. Ranko. No. 926,438; June 29; Sp. p. 6999; Gaz. vol. 143; p. 1232.  
 Bed, Folding. F. J. Crouch. No. 929,289; July 27; Sp. p. 5376; Gaz. vol. 144; p. 947.  
 Bed, Folding. K. Evans. No. 930,540; Aug. 10; Sp. p. 1888; Gaz. vol. 145; p. 333.  
 Bed, Folding. J. Maurer. No. 932,626; Aug. 31; Sp. p. 6356; Gaz. vol. 145; p. 1097.  
 Bed, Folding. F. W. Abbott. No. 934,644; Sept. 21; Sp. p. 3369; Gaz. vol. 146; p. 587.  
 Bed, Folding. J. McLeland. No. 935,921; Oct. 5; Sp. p. 690; Gaz. vol. 147; p. 101.  
 Bed, Folding. C. R. Gardner. No. 939,241; Nov. 9; Sp. p. 1721; Gaz. vol. 148; p. 299.  
 Bed, Folding. J. Lyons. No. 940,038; Nov. 16; Sp. p. 3521; Gaz. vol. 148; p. 603.  
 Bed, Folding. L. B. Jeffcott. No. 941,879; Nov. 30; Sp. p. 7550; Gaz. vol. 148; p. 1270.  
 Bed, Folding. J. H. Edmonds. No. 941,982; Nov. 30; Sp. p. 7745; Gaz. vol. 148; p. 1305.  
 Bed, Folding wall. J. H. Edmonds. No. 910,996; Jan. 26; Sp. p. 5214; Gaz. vol. 138; p. 940.  
 Bed, Folding wall. W. C. James. No. 938,668; Nov. 2; Sp. p. 493; Gaz. vol. 148; p. 76.  
 Bed-frame. F. G. Gale. No. 944,085; Dec. 21; Sp. p. 4412; Gaz. vol. 149; p. 760.  
 Bed head-rest. H. Kintz. No. 919,025; Apr. 20; Sp. p. 4295; Gaz. vol. 141; p. 750.  
 Bed head-rest. L. G. Ryan. No. 942,354; Dec. 7; Sp. p. 683; Gaz. vol. 149; p. 110.  
 Bed, Invalid. W. W. Ward. No. 912,214; Feb. 9; Sp. p. 2408; Gaz. vol. 139; p. 415.  
 Bed, Invalid. F. L. Gaines. No. 918,991; Apr. 20; Sp. p. 4238; Gaz. vol. 141; p. 740.  
 Bed, Invalid. S. Cuthy. No. 920,922; May 11; Sp. p. 1700; Gaz. vol. 142; p. 302.  
 Bed, Invalid. A. C. Taylor. No. 923,729; June 1; Sp. p. 1351; Gaz. vol. 143; p. 210.  
 Bed, Invalid. J. Mackey. No. 924,083; June 8; Sp. p. 2127; Gaz. vol. 143; p. 355.  
 Bed, Invalid. T. Taylor and W. M. Stuart. No. 926,038; June 22; Sp. p. 6159; Gaz. vol. 143; p. 1063.  
 Bed, Invalid. F. W. Mitchell. No. 933,323; Sept. 7; Sp. p. 654; Gaz. vol. 146; p. 101.  
 Bed, Invalid. J. H. Comer. No. 941,620; Nov. 30; Sp. p. 6978; Gaz. vol. 148; p. 1180.



*Alphabetical list of inventions—Continued.*

- Bed joint, Metal-. G. Adams. No. 923,235; June 1; Sp. p. 236; Gaz. vol. 143; p. 39.  
 Bed joint, Metal-. J. M. Adams. No. 932,233; Aug. 24; Sp. p. 5535; Gaz. vol. 145; p. 942.  
 Bed joint, Metal-. J. M. Adams. No. 933,355; Sept. 7; Sp. p. 724; Gaz. vol. 146; p. 113.  
 Bed, Metal. J. M. Adams. No. 911,862; Feb. 9; Sp. p. 1631; Gaz. vol. 139; p. 302.  
 Bed, Metal. J. M. Adams. No. 911,863; Feb. 9; Sp. p. 1633; Gaz. vol. 139; p. 303.  
 Bed-moving machine. W. H. Fulton. No. 922,424; June 1; Sp. p. 705; Gaz. vol. 143; p. 104.  
 Bed, Obstetrical. W. B. Peak. No. 943,453; Dec. 14; Sp. p. 3053; Gaz. vol. 149; p. 513.  
 Bed or box couch. H. J. Jacobs. No. 929,855; Aug. 3; Sp. p. 496; Gaz. vol. 145; p. 79.  
 Bed or couch, Extensible. J. Ludwig. No. 932,794; Aug. 31; Sp. p. 6718; Gaz. vol. 145; p. 1152.  
 Bed or douche pan. B. C. Williams and A. C. Scott. No. 931,539; Aug. 17; Sp. p. 4020; Gaz. vol. 145; p. 693.  
 Bed-pad. J. P. Duval. No. 940,958; Nov. 23; Sp. p. 5555; Gaz. vol. 148; p. 940.  
 Bed-pan. A. Henhapl. No. 916,894; Mar. 30; Sp. p. 6470; Gaz. vol. 140; p. 1155.  
 Bed-pan. M. E. Storrs. No. 920,211; May 4; Sp. p. 244; Gaz. vol. 142; p. 39.  
 Bed-pan. J. M. Crater. No. 926,103; June 29; Sp. p. 6319; Gaz. vol. 143; p. 1122.  
 Bed-pan. M. F. Cagle. No. 932,442; Aug. 31; Sp. p. 5936; Gaz. vol. 145; p. 1034.  
 Bed-pan, Sanitary. M. B. Morgan. No. 913,836; Mar. 2; Sp. p. 324; Gaz. vol. 140; p. 56.  
 Bed-partition. J. J. Jones and M. O'Brien. No. 925,916; June 22; Sp. p. 5937; Gaz. vol. 143; p. 1025.  
 Bed-plate. F. J. Fleischhauer. No. 914,035; Mar. 2; Sp. p. 831; Gaz. vol. 140; p. 127.  
 Bed, Press-. F. C. Leethem. No. 915,808; Mar. 23; Sp. p. 4555; Gaz. vol. 140; p. 809.  
 Bed-rail fastener. T. O. Berry. No. 921,349; May 11; Sp. p. 2592; Gaz. vol. 142; p. 446.  
 Bed-rail-notching machine. A. McLean. No. 934,090; Sept. 14; Sp. p. 2289; Gaz. vol. 146; p. 376.  
 Bed, Settee-. J. Phillipson. No. 914,671; Mar. 9; Sp. p. 2149; Gaz. vol. 140; p. 361.  
 Bed, Settee-. J. Phillipson. No. 927,811; July 13; Sp. p. 2306; Gaz. vol. 144; p. 398.  
 Bed side rail. W. B. Munna. No. 921,869; May 18; Sp. p. 3670; Gaz. vol. 142; p. 647.  
 Bed, Sofa-. V. Labelle. No. 917,771; Apr. 13; Sp. p. 1626; Gaz. vol. 141; p. 302.  
 Bed, Sofa-. T. G. Weyer. No. 925,545; June 22; Sp. p. 5123; Gaz. vol. 143; p. 903.  
 Bed, Sofa-. L. G. Ithrig. No. 940,321; Nov. 16; Sp. p. 4161; Gaz. vol. 148; p. 702.  
 Bed-spring. W. W. Vincent. No. 908,524; Jan. 5; Sp. p. 193; Gaz. vol. 138; p. 33.  
 Bed, Spring-. W. E. Frank. No. 909,390; Jan. 12; Sp. p. 1938; Gaz. vol. 138; p. 346.  
 Bed-spring. J. H. and L. S. Zeiders. No. 909,504; Jan. 12; Sp. p. 2173; Gaz. vol. 138; p. 385.  
 Bed-spring. L. Glore. No. 917,585; Apr. 6; Sp. p. 1221; Gaz. vol. 141; p. 213.  
 Bed-spring. J. F. Dixon. No. 930,538; Aug. 10; Sp. p. 1885; Gaz. vol. 145; p. 333.  
 Bed-spring. A. M. Beymer. No. 933,615; Sept. 7; Sp. p. 1339; Gaz. vol. 146; p. 199.  
 Bed-spring. J. Sirr and J. W. Kleine. No. 938,717; Nov. 2; Sp. p. 584; Gaz. vol. 145; p. 92.  
 Bed-spring, Adjustable. S. R. Hunt, Jr. No. 929,853; Aug. 3; Sp. p. 491; Gaz. vol. 145; p. 78.  
 Bed-spring lifter. C. A. Hermann and J. M. Bostrom. No. 911,980; Feb. 9; Sp. p. 1955; Gaz. vol. 139; p. 343.  
 Bed-springs, Device for tightening wire. F. B. Townsend. No. 936,958; Oct. 12; Sp. p. 2822; Gaz. vol. 147; p. 470.  
 Bed-springs, Safety releasing-clamp for baled. J. Bernstein and L. E. Bailey. No. 923,758; June 1; Sp. p. 1417; Gaz. vol. 143; p. 220.  
 Bed, Swinging couch-. J. Luppino. No. 931,780; Aug. 24; Sp. p. 4570; Gaz. vol. 145; p. 793.  
 Bed, Wall-. J. H. Edmonds. No. 916,923; Mar. 30; Sp. p. 6594; Gaz. vol. 140; p. 1175.  
 Bed, Wall-. W. C. James. No. 929,595; July 27; Sp. p. 5952; Gaz. vol. 144; p. 1046.  
 Bed, Wall or cabinet-. N. B. Douglass. No. 939,482; Nov. 9; Sp. p. 2304; Gaz. vol. 148; p. 331.  
 Bed, Wardrobe-. M. Appel. No. 915,651; Mar. 16; Sp. p. 4119; Gaz. vol. 140; p. 712.  
 Beds, Attachment for. J. N. Moody. No. 930,554; Aug. 10; Sp. p. 1916; Gaz. vol. 145; p. 338.  
 Beds, Fracture apparatus for use with invalid-. C. S. S. Barrows. No. 923,317; June 1; Sp. p. 485; Gaz. vol. 143; p. 69.  
 Beds, &c., Gate for. H. and A. Thurm. No. 908,904; Jan. 5; Sp. p. 977; Gaz. vol. 138; p. 156.  
 Beds, Invalid's foot-rest for. M. Weld. No. 931,908; Aug. 24; Sp. p. 4869; Gaz. vol. 145; p. 834.  
 Bedclothes clamp. R. S. Ormsby. No. 925,831; June 22; Sp. p. 5762; Gaz. vol. 143; p. 997.  
 Beds, Safety-headboard for folding. J. H. Edmonds. No. 943,594; Dec. 14; Sp. p. 3328; Gaz. vol. 149; p. 561.  
 Bedclothes-clamp. G. W. Bacon. No. 932,748; Aug. 31; Sp. p. 6599; Gaz. vol. 145; p. 1138.  
 Bedclothes-fastener. E. L. Kelley. No. 914,287; Mar. 2; Sp. p. 1345; Gaz. vol. 140; p. 208.  
 Bedclothing-airing device. A. H. Stetson. No. 936,827; Oct. 12; Sp. p. 2557; Gaz. vol. 147; p. 427.  
 Bedstead. G. T. Bouslog. No. 911,370; Feb. 2; Sp. p. 678; Gaz. vol. 139; p. 116.  
 Bedstead. H. A. Sears. No. 912,036; Feb. 9; Sp. p. 2071; Gaz. vol. 139; p. 360.  
 Bedstead. H. T. Stevenson. No. 912,200; Feb. 9; Sp. p. 2389; Gaz. vol. 139; p. 411.  
 Bedstead, &c. J. A. Crane. No. 917,551; Apr. 6; Sp. p. 1160; Gaz. vol. 141; p. 202.  
 Bedstead. W. Wokurka. No. 933,810; Sept. 14; Sp. p. 1723; Gaz. vol. 146; p. 286.  
 Bedstead. J. A. Grenier. No. 934,607; Sept. 21; Sp. p. 3290; Gaz. vol. 146; p. 573.  
 Bedstead. J. Westhaver. No. 942,426; Dec. 7; Sp. p. 818; Gaz. vol. 149; p. 134.  
 Bedstead. F. G. Gale. No. 944,084; Dec. 21; Sp. p. 4410; Gaz. vol. 149; p. 760.  
 Bedstead attachment. W. W. Atkinson. No. 921,339; May 11; Sp. p. 2569; Gaz. vol. 142; p. 443.  
 Bedstead attachment. C. D. Clark. No. 943,217; Dec. 14; Sp. p. 2540; Gaz. vol. 149; p. 432.  
 Bedstead attachment, Invalid-. J. Johnson. No. 924,075; June 8; Sp. p. 2114; Gaz. vol. 143; p. 353.  
 Bedstead-brace. R. H. Parker. No. 911,325; Feb. 2; Sp. p. 601; Gaz. vol. 139; p. 102.  
 Bedstead-canopy-suspending attachment. M. T. Skinner. No. 929,035; July 27; Sp. p. 4833; Gaz. vol. 144; p. 863.  
 Bedstead clothes-clamp. F. L. Taylor. No. 944,056; Dec. 21; Sp. p. 4353; Gaz. vol. 149; p. 750.  
 Bedstead corner-fastening. F. W. Reuter. No. 926,087; June 22; Sp. p. 6279; Gaz. vol. 143; p. 1081.  
 Bedstead crib attachment. W. E. Brown. No. 912,445; Feb. 16; Sp. p. 2931; Gaz. vol. 139; p. 531.  
 Bedstead crib attachment. V. O. Crawford. No. 914,641; Mar. 9; Sp. p. 2064; Gaz. vol. 140; p. 351.  
 Bedstead crib attachment. C. D. Beeland. No. 920,009; Apr. 27; Sp. p. 6510; Gaz. vol. 141; p. 1111.  
 Bedstead, Extension-. H. B. Arnold. No. 924,626; June 15; Sp. p. 3303; Gaz. vol. 143; p. 569.  
 Bedstead, Extension-. H. B. Arnold. No. 943,170; Dec. 14; Sp. p. 2453; Gaz. vol. 149; p. 417.  
 Bedstead lock or joint. M. D. L. Martin. No. 931,447; Aug. 17; Sp. p. 3857; Gaz. vol. 145; p. 665.  
 Bedstead mattress or bottom attachment. S. W. Bennett. No. 909,524; Jan. 12; Sp. p. 2207; Gaz. vol. 138; p. 392.  
 Bedstead, Metal. W. A. Wylie. No. 938,405; Oct. 26; Sp. p. 5901; Gaz. vol. 147; p. 1001.  
 Bedstead-mount-buffing machine. J. F. Gail. No. 941,706; Nov. 30; Sp. p. 7173; Gaz. vol. 148; p. 1210.  
 Bedstead-mounts and the like, Machine for buffing. J. F. Gail. No. 928,254; July 20; Sp. p. 3238; Gaz. vol. 144; p. 576.  
 Bedstead rail-hanger. P. Jensen. No. 922,771; May 25; Sp. p. 5507; Gaz. vol. 142; p. 968.  
 Bedstead shipping box or crate. S. Rosenthal. No. 932,581; Aug. 31; Sp. p. 6253; Gaz. vol. 145; p. 1081.  
 Bedstead table attachment. M. E. Crowder. No. 912,936; Feb. 16; Sp. p. 3945; Gaz. vol. 139; p. 694.  
 Bedsteads, Folding clothes-rack attachment for. F. D. Pelletier. No. 932,169; Aug. 24; Sp. p. 5407; Gaz. vol. 145; p. 922.  
 Bedsteads, Lacquering. W. W. Vincent. No. 908,911; Jan. 5; Sp. p. 989; Gaz. vol. 138; p. 158.  
 Bedsteads, Locking-plate for the rails of. G. M. Donaldson. No. 944,325; Dec. 28; Sp. p. 4916; Gaz. vol. 149; p. 866.  
 Bedsteads, Third-rail and fifth-leg attachment for. F. F. Berry. No. 930,340; Aug. 10; Sp. p. 1449; Gaz. vol. 145; p. 265.  
 Beefsteak-tenderer. G. C. Givens. No. 916,145; Mar. 23; Sp. p. 5075; Gaz. vol. 140; p. 899.  
 Beehive. H. T. Ward. No. 909,973; Jan. 19; Sp. p. 3112; Gaz. vol. 138; p. 576.  
 Beehive. J. E. Douglas. No. 910,047; Jan. 19; Sp. p. 3252; Gaz. vol. 138; p. 600.  
 Beehive. C. A. Hurst. No. 918,052; Apr. 13; Sp. p. 2223; Gaz. vol. 141; p. 399.  
 Beehive. P. Weaver. No. 933,606; Sept. 7; Sp. p. 1325; Gaz. vol. 146; p. 196.  
 Beehive. D. I. Comsa. No. 936,604; Oct. 12; Sp. p. 2117; Gaz. vol. 147; p. 352.  
 Beehive. G. R. Sinnickson. No. 940,407; Nov. 16; Sp. p. 4377; Gaz. vol. 148; p. 732.  
 Beehive-trap. F. H. Saffell. No. 917,900; Apr. 13; Sp. p. 1895; Gaz. vol. 141; p. 344.  
 Beer and other liquids, Apparatus for carbonating and dispensing. E. B. Mower. No. 932,048; Aug. 24; Sp. p. 5167; Gaz. vol. 145; p. 881.  
 Beer, Bottling. R. Gull. No. 938,577; Nov. 2; Sp. p. 309; Gaz. vol. 148; p. 46.  
 Beer-bottling machine. R. Gull. No. 938,578; Nov. 2; Sp. p. 313; Gaz. vol. 148; p. 46.  
 Beer, Brewing. L. Nathan. No. 915,791; Mar. 23; Sp. p. 4416; Gaz. vol. 140; p. 784.  
 Beer-cooler. J. D. Hendrix. No. 911,405; Feb. 2; Sp. p. 742; Gaz. vol. 139; p. 128.  
 Beer-cooler. K. T. Schützinger. No. 931,891; Aug. 24; Sp. p. 4792; Gaz. vol. 145; p. 828.  
 Beer-cooler, Triple-pipe. W. Griesser. No. 912,671; Feb. 16; Sp. p. 3396; Gaz. vol. 139; p. 609.  
 Beer, Dealcoholizing. F. J. Pribyl. No. 935,814; Oct. 5; Sp. p. 464; Gaz. vol. 147; p. 66.  
 Beer dispenser, Root-. F. H. Anderberg. No. 932,942; Aug. 31; Sp. p. 6984; Gaz. vol. 145; p. 1199.  
 Beer-dispensing apparatus. H. S. Cornish. No. 928,588; July 20; Sp. p. 3924; Gaz. vol. 144; p. 686.  
 Beer-drawing apparatus. L. H. Handy and W. L. Phillips. No. 931,297; Aug. 17; Sp. p. 3558; Gaz. vol. 145; p. 614.

*Alphabetical list of inventions—Continued.*

- Beer from storage vessels by the direct influence of air-pressure of variable strength, Device for raising and conveying. J. H.W. Ortmann and C. W. C. Herbst. No. 925,219; June 15; Sp. p. 4517; Gaz. vol. 143; p. 770.
- Beer pasteurizing and cooling apparatus. W. Wenzel. No. 934,377; Sept. 14; Sp. p. 2837; Gaz. vol. 146; p. 474.
- Beer-skimmer. L. F. Martin. No. 936,005; Oct. 5; Sp. p. 857; Gaz. vol. 147; p. 129.
- Beer-tapping device. P. F. Cox. No. 908,447; Jan. 5; Sp. p. 27; Gaz. vol. 138; p. 6.
- Beer-wort, Preparing. L. Rübsam. No. 909,942; Jan. 19; Sp. p. 3048; Gaz. vol. 138; p. 565.
- Beeswax-extractor. O. L. Hershiser. No. 913,889; Mar. 2; Sp. p. 433; Gaz. vol. 140; p. 76.
- Beet-blocker. C. Canutson. No. 912,987; Feb. 23; Sp. p. 4065; Gaz. vol. 139; p. 737.
- Beet-blocker. E. Kraak. No. 939,715; Nov. 9; Sp. p. 2791; Gaz. vol. 148; p. 461.
- Beet digger and topper. W. C. Mauer. No. 938,263; Oct. 26; Sp. p. 5571; Gaz. vol. 147; p. 952.
- Beet-dump transfer appliance. F. L. Pickett. No. 910,852; Jan. 26; Sp. p. 4945; Gaz. vol. 138; p. 893.
- Beet-flume cover. J. R. Lees. No. 922,920; May 25; Sp. p. 5830; Gaz. vol. 142; p. 1017.
- Beet-harvester. W. Kite. No. 909,424; Jan. 12; Sp. p. 2008; Gaz. vol. 138; p. 357.
- Beet harvester, Sugar-. J. Kolin. No. 912,577; Feb. 16; Sp. p. 3220; Gaz. vol. 139; p. 577.
- Beet-lifting mechanism. W. B. Fox. No. 910,467; Jan. 19; Sp. p. 4165; Gaz. vol. 138; p. 746.
- Beet-puller. W. D. Nason. No. 919,748; Apr. 27; Sp. p. 5967; Gaz. vol. 141; p. 1025.
- Beet-puller. E. A. Smith. No. 933,352; Sept. 7; Sp. p. 718; Gaz. vol. 146; p. 112.
- Beet pulling and topping machine. P. M. Gilbert. No. 937,592; Oct. 19; Sp. p. 4165; Gaz. vol. 147; p. 709.
- Beet-topper. S. R. Giddings and D. T. Blevins. No. 909,395; Jan. 12; Sp. p. 1946; Gaz. vol. 138; p. 347.
- Beet-topper. W. B. Baldwin. No. 911,197; Feb. 2; Sp. p. 341; Gaz. vol. 139; p. 60.
- Beet-topper. G. Nicol. No. 919,929; Apr. 27; Sp. p. 6355; Gaz. vol. 141; p. 1056.
- Beet-topper. H. R. Arthur. No. 933,687; Sept. 7; Sp. p. 1480; Gaz. vol. 146; p. 223.
- Beet topper and puller. W. F. Elkin. No. 938,306; Oct. 26; Sp. p. 5678; Gaz. vol. 147; p. 966.
- Beets, Machine for unearthing. O. N. Frankman. No. 928,594; July 20; Sp. p. 3943; Gaz. vol. 144; p. 688.
- Bell: See Electric alarm-bell.
- Bell and alarm, Combined door-. H. W. Dubbs. No. 928,369; July 20; Sp. p. 3490; Gaz. vol. 144; p. 616.
- Bell, Automatic call-. A. C. Mellinger. No. 917,635; Apr. 6; Sp. p. 1310; Gaz. vol. 141; p. 231.
- Bell, Call-. S. Katz. No. 909,092; Jan. 5; Sp. p. 1349; Gaz. vol. 138; p. 216.
- Bell, Door-. F. Sexauer. No. 943,320; Dec. 14; Sp. p. 2765; Gaz. vol. 149; p. 467.
- Bell, Electric. G. L. Patterson. No. 910,412; Jan. 19; Sp. p. 4052; Gaz. vol. 138; p. 726.
- Bell, Electric. W. J. Murray. No. 924,180; June 8; Sp. p. 2368; Gaz. vol. 143; p. 388.
- Bell, Electric. E. A. Graham. No. 937,594; Oct. 19; Sp. p. 4169; Gaz. vol. 147; p. 710.
- Bell, Electric signal-. H. W. Eden. No. 916,284; Mar. 23; Sp. p. 5327; Gaz. vol. 140; p. 944.
- Bell fastener, Sleigh-. W. C. Frindell. No. 928,376; July 20; Sp. p. 3499; Gaz. vol. 144; p. 618.
- Bell, Fluid-operated. F. C. Hansen. No. 925,095; June 15; Sp. p. 4269; Gaz. vol. 143; p. 728.
- Bell-ringer. A. O. Van Dervort. No. 926,444; June 29; Sp. p. 7008; Gaz. vol. 143; p. 1234.
- Bell-ringer. E. Wilson. No. 931,108; Aug. 17; Sp. p. 3124; Gaz. vol. 145; p. 547.
- Bell, Selective-ringing magneto-. B. W. Sweet. No. 929,995; Aug. 3; Sp. p. 792; Gaz. vol. 145; p. 127.
- Bell, Signal-. H. W. Eden. No. 934,396; Sept. 14; Sp. p. 2875; Gaz. vol. 146; p. 480.
- Bell-striker. T. L. Willson. No. 931,172; Aug. 17; Sp. p. 3269; Gaz. vol. 145; p. 570.
- Bell support, Smoke-. H. C. Hepler. No. 914,273; Mar. 2; Sp. p. 1321; Gaz. vol. 140; p. 204.
- Bell, Swinging. W. P. Elliott, Jr. No. 927,133; July 6; Sp. p. 906; Gaz. vol. 144; p. 146.
- Bell switch, Multiple-call-. L. I. Freas. No. 911,968; Feb. 9; Sp. p. 1931; Gaz. vol. 139; p. 339.
- Bellows-chest. P. B. Klugh. No. 914,351; Mar. 2; Sp. p. 1440; Gaz. vol. 140; p. 230.
- Bellows, Pumping-. R. W. Pain. No. 911,065; Feb. 2; Sp. p. 85; Gaz. vol. 139; p. 16.
- Bellows-support. J. Sampere. No. 936,670; Oct. 12; Sp. p. 2257; Gaz. vol. 147; p. 375.
- Belt. W. F. Lott. No. 943,228; Dec. 14; Sp. p. 2571; Gaz. vol. 149; p. 436.
- Belt, Abdominal. E. Nickum. No. 933,101; Sept. 7; Sp. p. 136; Gaz. vol. 146; p. 22.
- Belt attachment. R. Dalmar and A. K. Wander. No. 934,290; Sept. 14; Sp. p. 2670; Gaz. vol. 146; p. 443.
- Belt-buckle. H. L. Perryman. No. 909,213; Jan. 12; Sp. p. 1610; Gaz. vol. 138; p. 289.
- Belt-buckle. L. L. Mallard. No. 912,865; Feb. 16; Sp. p. 3820; Gaz. vol. 139; p. 673.
- Belt-carrier. C. Miller. No. 909,439; Jan. 12; Sp. p. 2035; Gaz. vol. 133; p. 362.
- Belt, Chain driving-. J. E. Dukelow. No. 921,095; May 11; Sp. p. 2049; Gaz. vol. 142; p. 360.
- Belt-clasp. C. W. Powell. No. 911,329; Feb. 2; Sp. p. 604; Gaz. vol. 139; p. 103.
- Belt-cleaner. J. A. Bowen. No. 932,434; Aug. 31; Sp. p. 5922; Gaz. vol. 145; p. 1032.
- Belt-cleaner. J. A. Bowen. No. 936,297; Oct. 12; Sp. p. 1428; Gaz. vol. 147; p. 248.
- Belt-cleaner. T. Healey. No. 936,887; Oct. 12; Sp. p. 2681; Gaz. vol. 147; p. 447.
- Belt controller and tightener. M. J. Davidsen. No. 936,094; Oct. 5; Sp. p. 1041; Gaz. vol. 147; p. 158.
- Belt, Conveyor-. M. C. Graney. No. 912,116; Feb. 9; Sp. p. 2234; Gaz. vol. 139; p. 386.
- Belt, Conveyor-. T. Robins. No. 913,917; Mar. 2; Sp. p. 537; Gaz. vol. 140; p. 86.
- Belt, Conveyor-. H. E. Heaton. No. 932,015; Aug. 24; Sp. p. 5087; Gaz. vol. 145; p. 870.
- Belt-coupling. J. C. Cottie. No. 909,555; Jan. 12; Sp. p. 2266; Gaz. vol. 138; p. 402.
- Belt-coupling. J. Brenner. No. 914,634; Mar. 9; Sp. p. 2052; Gaz. vol. 140; p. 349.
- Belt-coupling. G. E. Purple, A. B. Beach, and W. H. Trout. No. 938,510; Nov. 2; Sp. p. 140; Gaz. vol. 148; p. 22.
- Belt-coupling. G. E. Purple. No. 938,511; Nov. 2; Sp. p. 142; Gaz. vol. 148; p. 22.
- Belt, Drive-. A. G. Kolbe. No. 941,786; Nov. 30; Sp. p. 7341; Gaz. vol. 148; p. 1237.
- Belt, Elastic. W. Dalton. No. 924,324; June 8; Sp. p. 2686; Gaz. vol. 143; p. 437.
- Belt, Electric. A. Hornung and I. Sperling. No. 910,474; Jan. 19; Sp. p. 4183; Gaz. vol. 138; p. 747.
- Belt, Endless woven. J. Kast. No. 912,474; Feb. 16; Sp. p. 2989; Gaz. vol. 139; p. 540.
- Belt-fastener. P. A. Hudson. No. 913,386; Feb. 23; Sp. p. 4871; Gaz. vol. 139; p. 872.
- Belt-fastener. R. Maxwell. No. 923,546; June 1; Sp. p. 954; Gaz. vol. 143; p. 148.
- Belt-fastener. P. and J. McHale. No. 924,490; June 8; Sp. p. 3007; Gaz. vol. 143; p. 490.
- Belt-fastener. A. E. Slipper. No. 925,521; June 22; Sp. p. 5083; Gaz. vol. 143; p. 895.
- Belt-fastener. F. O. Stenzel. No. 926,616; June 29; Sp. p. 7320; Gaz. vol. 143; p. 1291.
- Belt-fastener. G. H. Smith. No. 928,556; July 20; Sp. p. 3853; Gaz. vol. 144; p. 675.
- Belt-fastener. R. M. Bennett. No. 928,840; July 20; Sp. p. 4420; Gaz. vol. 144; p. 770.
- Belt-fastener. J. W. Kidwell. No. 934,321; Sept. 14; Sp. p. 2729; Gaz. vol. 146; p. 454.
- Belt-fastener. C. S. Eaton. No. 940,443; Nov. 16; Sp. p. 4451; Gaz. vol. 148; p. 744.
- Belt-fastener, Metallic. C. E. Coe. No. 929,078; July 27; Sp. p. 4917; Gaz. vol. 144; p. 876.
- Belt-fastening device. J. R. Golden. No. 938,049; Oct. 26; Sp. p. 5106; Gaz. vol. 147; p. 879.
- Belt, Fireman's. J. E. Smith. No. 913,171; Feb. 23; Sp. p. 4433; Gaz. vol. 139; p. 799.
- Belt for transmitting power. C. F. Gray. No. 929,760; Aug. 3; Sp. p. 272; Gaz. vol. 145; p. 47.
- Belt for transmitting power, Laminated. W. R. Goudie and H. L. Myers. No. 936,532; Oct. 12; Sp. p. 1975; Gaz. vol. 147; p. 325.
- Belt-governing mechanism. E. A. Osgood. No. 921,621; May 11; Sp. p. 3141; Gaz. vol. 142; p. 537.
- Belt-guide. G. H. Tenpas. No. 936,830; Oct. 12; Sp. p. 2563; Gaz. vol. 147; p. 428.
- Belt guide and thrower. J. A. Larson. No. 923,979; June 8; Sp. p. 1941; Gaz. vol. 143; p. 323.
- Belt-holder. A. A. Felix. No. 935,840; Oct. 5; Sp. p. 510; Gaz. vol. 147; p. 73.
- Belt-joint. J. C. Blevney. No. 944,658; Dec. 28; Sp. p. 5660; Gaz. vol. 149; p. 982.
- Belt, Metallic. H. L. Canne. No. 920,537; May 4; Sp. p. 902; Gaz. vol. 142; p. 145.
- Belt-perforating gage. A. Pullen. No. 911,608; Feb. 9; Sp. p. 1141; Gaz. vol. 139; p. 220.
- Belt-pin. J. C. and J. A. Doran. No. 925,083; June 15; Sp. p. 4248; Gaz. vol. 143; p. 723.
- Belt, Power-transmission. L. Onderdonk. No. 923,693; June 1; Sp. p. 1278; Gaz. vol. 143; p. 199.
- Belt-replacer. J. Horinek. No. 911,983; Feb. 9; Sp. p. 1962; Gaz. vol. 139; p. 344.
- Belt, Safety-. G. L. Dennerline. No. 927,839; July 13; Sp. p. 2375; Gaz. vol. 144; p. 407.
- Belt-sander. O. Olsson. No. 938,692; Nov. 2; Sp. p. 542; Gaz. vol. 148; p. 84.
- Belt-shifter. E. Hinders and J. Reintsma. No. 913,890; Mar. 2; Sp. p. 466; Gaz. vol. 140; p. 76.
- Belt-shifter. F. Notz and G. Royan. No. 917,480; Apr. 6; Sp. p. 1027; Gaz. vol. 141; p. 179.
- Belt-shifter. T. J. McVey. No. 924,624; June 8; Sp. p. 3287; Gaz. vol. 143; p. 536.
- Belt-shifter. F. A. Carlton. No. 927,222; July 6; Sp. p. 1074; Gaz. vol. 144; p. 174.
- Belt-shifter. J. Cressman. No. 932,000; Aug. 24; Sp. p. 5057; Gaz. vol. 145; p. 865.
- Belt-shifter. J. A. Long. No. 942,384; Dec. 7; Sp. p. 733; Gaz. vol. 149; p. 119.
- Belt-shifter. J. S. Elliott. No. 944,359; Dec. 28; Sp. p. 4990; Gaz. vol. 149; p. 878.



*Alphabetical list of inventions—Continued.*

- Belt-shifter support. C. W. Levalley. No. 942,837; Dec. 7; Sp. p. 1661; Gaz. vol. 149; p. 272.  
 Belt-shifting mechanism. A. A. Wood. No. 938,931; Nov. 2; Sp. p. 1059; Gaz. vol. 148; p. 168.  
 Belt, Sorting-. O. Sutter. No. 938,521; Nov. 2; Sp. p. 183; Gaz. vol. 148; p. 25.  
 Belt-stretcher. A. C. Donell. No. 914,815; Mar. 9; Sp. p. 2430; Gaz. vol. 140; p. 408.  
 Belt-stretcher. L. Eberline and F. M. Wanzer. No. 944,958; Dec. 28; Sp. p. 6291; Gaz. vol. 149; p. 1081.  
 Belt-striking device. P. Karthaus. No. 919,437; Apr. 27; Sp. p. 5319; Gaz. vol. 141; p. 919.  
 Belt-tightener. G. L. Wallace and R. Dow. No. 934,248; Sept. 14; Sp. p. 2600; Gaz. vol. 146; p. 430.  
 Belt-tightener. D. R. and H. W. Blakeslee. No. 941,226; Nov. 23; Sp. p. 6145; Gaz. vol. 148; p. 1030.  
 Belt-tightening and speed-changing mechanism. F. E. Marey. No. 919,048; Apr. 20; Sp. p. 4338; Gaz. vol. 141; p. 757.  
 Belt-tightening device. O. E. Shafer. No. 916,619; Mar. 30; Sp. p. 6032; Gaz. vol. 140; p. 1081.  
 Belt-tightening device. J. E. Delhomme. No. 919,548; Apr. 27; Sp. p. 5574; Gaz. vol. 141; p. 958.  
 Belt with standing sides, Endless traveling. G. Gates. No. 927,648; July 13; Sp. p. 1969; Gaz. vol. 144; p. 344.  
 Belts, Machine and process for treating fabric. F. Stone. No. 937,726; Oct. 19; Sp. p. 4432; Gaz. vol. 147; p. 752.  
 Belting. E. A. Usina. No. 911,855; Feb. 9; Sp. p. 1621; Gaz. vol. 139; p. 300.  
 Belting. W. S. Langford. No. 921,415; May 11; Sp. p. 2721; Gaz. vol. 142; p. 468.  
 Belting. W. H. Adams. No. 924,213; June 8; Sp. p. 2460; Gaz. vol. 143; p. 399.  
 Belting. P. L. Wooster. No. 933,011; Aug. 31; Sp. p. 7109; Gaz. vol. 145; p. 1222.  
 Belting. H. Loeb. No. 939,724; Nov. 9; Sp. p. 2811; Gaz. vol. 148; p. 465.  
 Bench. *See* Combination-bench; Piano-bench; Tile greenhouse-bench; Washbench; Work-bench.  
 Bench and chair, Combined. T. D. Montague. No. 911,319; Feb. 2; Sp. p. 587; Gaz. vol. 139; p. 100.  
 Bench-clamp. I. Solberg. No. 909,469; Jan. 12; Sp. p. 2094; Gaz. vol. 138; p. 372.  
 Bench-clamp. S. J. Chambers. No. 911,028; Feb. 2; Sp. p. 10; Gaz. vol. 139; p. 4.  
 Bench-clamp. A. V. Davis. No. 919,546; Apr. 27; Sp. p. 5570; Gaz. vol. 141; p. 957.  
 Bench-clamp. J. W. Kincaid. No. 928,460; July 20; Sp. p. 3666; Gaz. vol. 144; p. 646.  
 Bench-clamp. R. T. Bond. No. 938,457; Nov. 2; Sp. p. 8; Gaz. vol. 148; p. 4.  
 Bench clamp or vise. E. P. Bridges. No. 923,323; June 1; Sp. p. 496; Gaz. vol. 143; p. 71.  
 Bench-dog. E. A. Schade. No. 941,816; Nov. 30; Sp. p. 7418; Gaz. vol. 148; p. 1247.  
 Bench-stop. M. R. Raynesford. No. 939,088; Nov. 2; Sp. p. 1356; Gaz. vol. 148; p. 221.  
 Bench stop and clamp. S. A. Huntley. No. 915,354; Mar. 16; Sp. p. 3499; Gaz. vol. 140; p. 610.  
 Bench-stop, Carpenter's. D. F. Larkin. No. 919,732; Apr. 27; Sp. p. 5942; Gaz. vol. 141; p. 1020.  
 Bending apparatus. F. Ditchfield. No. 943,967; Dec. 21; Sp. p. 4156; Gaz. vol. 149; p. 720.  
 Bending-machine. L. E. Rice. No. 909,936; Jan. 19; Sp. p. 3039; Gaz. vol. 138; p. 563.  
 Bending-machine. J. A. Gerlock. No. 910,282; Jan. 19; Sp. p. 3790; Gaz. vol. 138; p. 682.  
 Bending-machine. H. J. McGill. No. 922,942; May 25; Sp. p. 5882; Gaz. vol. 142; p. 1024.  
 Bending-machine. R. A. Carter. No. 938,556; Nov. 2; Sp. p. 263; Gaz. vol. 148; p. 39.  
 Benzene or its homologues from petroleum, Producing. E. A. Starke. No. 913,780; Mar. 2; Sp. p. 222; Gaz. vol. 140; p. 37.  
 Benzoate, Manufacturing. E. O. Barstow. No. 939,584; Nov. 9; Sp. p. 2516; Gaz. vol. 148; p. 415.  
 Benzoate, Manufacturing. E. O. Barstow. No. 939,940; Nov. 9; Sp. p. 3277; Gaz. vol. 148; p. 541.  
 Benzoate, Manufacturing. E. O. Barstow. No. 939,941; Nov. 9; Sp. p. 3280; Gaz. vol. 148; p. 541.  
 Berry-box. S. H. Ashmun. No. 922,659; May 25; Sp. p. 5277; Gaz. vol. 142; p. 933.  
 Berry-box. W. C. Miner. No. 925,935; June 22; Sp. p. 5970; Gaz. vol. 143; p. 1031.  
 Berry-box. P. Henrich. No. 929,645; July 27; Sp. p. 6085; Gaz. vol. 144; p. 1063.  
 Berry-picker. G. M. Holmes. No. 924,552; June 8; Sp. p. 3131; Gaz. vol. 143; p. 511.  
 Berry-prop. A. D. Turner. No. 921,484; May 11; Sp. p. 2857; Gaz. vol. 142; p. 491.  
 Berry-stem remover. W. E. Urschel. No. 918,933; Apr. 20; Sp. p. 4107; Gaz. vol. 141; p. 720.  
 Berth for ships, Swinging. V. Bridgman. No. 943,380; Dec. 14; Sp. p. 2897; Gaz. vol. 149; p. 487.  
 Berth-ladder. E. B. Duncon and B. See. No. 909,876; Jan. 19; Sp. p. 2910; Gaz. vol. 138; p. 541.  
 Berth, Sleeping-car. P. Rubinovitch. No. 936,814; Oct. 12; Sp. p. 2529; Gaz. vol. 147; p. 422.  
 Berth, Sleeping-car. A. West. No. 938,929; Nov. 2; Sp. p. 1056; Gaz. vol. 148; p. 167.  
 Bessemer converter. G. J. Stock. No. 935,615; Sept. 28; Sp. p. 5324; Gaz. vol. 146; p. 934.  
 Bevel and square, Combined. O. A. Osmonson. No. 912,605; Feb. 16; Sp. p. 3270; Gaz. vol. 139; p. 587.  
 Bevel and square, Combined. J. S. Taylor. No. 935,067; Sept. 28; Sp. p. 4217; Gaz. vol. 146; p. 754.  
 Bevel-gage. O. P. Staley. No. 925,962; June 22; Sp. p. 6018; Gaz. vol. 143; p. 1040.  
 Bevel, Jack-rafter. C. F. Reum. No. 938,704; Nov. 2; Sp. p. 559; Gaz. vol. 148; p. 88.  
 Bevel, square, and calipers, Combined. J. J. Szymanski. No. 936,746; Oct. 12; Sp. p. 2405; Gaz. vol. 147; p. 400.  
 Beveling-machine. V. Royle. No. 933,343; Sept. 7; Sp. p. 698; Gaz. vol. 146; p. 109.  
 Beverage-dispensing system. A. D. Jones. No. 932,284; Aug. 24; Sp. p. 5627; Gaz. vol. 145; p. 960.  
 Beverage-dispensing system. A. D. Jones. No. 932,285; Aug. 24; Sp. p. 5633; Gaz. vol. 145; p. 961.  
 Beverages, Apparatus for carbonating and dispensing. L. C. Paris and T. Millward. No. 935,858; Oct. 5; Sp. p. 557; Gaz. vol. 147; p. 80.  
 Beverages, Composition of matter for use in preparing fermented. M. Wallerstein. No. 908,630; Jan. 5; Sp. p. 417; Gaz. vol. 138; p. 67.  
 Beverages, Manufacturing fermented. E. W. Kuhn. No. 936,328; Oct. 12; Sp. p. 1496; Gaz. vol. 147; p. 259.  
 Bib-seat dresser. R. McBee. No. 919,618; Apr. 27; Sp. p. 5714; Gaz. vol. 141; p. 983.  
 Bicycle. I. Di Fabio. No. 924,438; June 8; Sp. p. 2894; Gaz. vol. 143; p. 474.  
 Bicycle. G. H. Meiser. No. 927,989; July 13; Sp. p. 2674; Gaz. vol. 144; p. 456.  
 Bicycle coaster-brake lock. C. O. Hopping. No. 925,810; June 22; Sp. p. 5716; Gaz. vol. 143; p. 990.  
 Bicycle crank-hanger. C. F. Kline. No. 920,583; May 4; Sp. p. 990; Gaz. vol. 142; p. 161.  
 Bicycle-frame. A. Levedahl. No. 913,961; Mar. 2; Sp. p. 636; Gaz. vol. 140; p. 100.  
 Bicycle-frame, Cushioning. O. J. Laravie. No. 931,932; Aug. 24; Sp. p. 4906; Gaz. vol. 145; p. 842.  
 Bicycle handle-bar. G. H. Houck. No. 918,856; Apr. 20; Sp. p. 3952; Gaz. vol. 141; p. 695.  
 Bicycle handle-bar. J. R. Logan. No. 938,255; Oct. 26; Sp. p. 5560; Gaz. vol. 147; p. 950.  
 Bicycle leading attachment. C. A. Mason. No. 937,835; Oct. 26; Sp. p. 4661; Gaz. vol. 147; p. 807.  
 Bicycle motor attachment. G. Belz. No. 928,928; July 27; Sp. p. 4610; Gaz. vol. 144; p. 827.  
 Bicycle-prop. E. F. Williams and C. W. Patterson. No. 927,620; July 13; Sp. p. 1894; Gaz. vol. 144; p. 335.  
 Bicycle-pump. C. E. Speck and F. W. Henschen. No. 916,211; Mar. 23; Sp. p. 5193; Gaz. vol. 140; p. 920.  
 Bicycle-seat attachment. A. W. Duck. No. 924,541; June 8; Sp. p. 3114; Gaz. vol. 143; p. 508.  
 Bicycle-spokes, Machine for making reinforced. E. L. Robergel. No. 924,582; June 8; Sp. p. 3185; Gaz. vol. 143; p. 521.  
 Bicycle spring-fork. H. C. Preston, Jr. No. 934,013; Sept. 14; Sp. p. 2125; Gaz. vol. 146; p. 351.  
 Bicycle spring-fork. C. Blankenheim. No. 934,708; Sept. 21; Sp. p. 3493; Gaz. vol. 146; p. 608.  
 Bicycle spring-fork. E. Lampel. No. 937,614; Oct. 19; Sp. p. 4207; Gaz. vol. 147; p. 716.  
 Bicycle sprockets and crank-shafts, Double bearing for. A. L. Girard. No. 921,100; May 11; Sp. p. 2060; Gaz. vol. 142; p. 362.  
 Bicycle-stand. C. J. Hansen. No. 921,242; May 11; Sp. p. 2346; Gaz. vol. 142; p. 411.  
 Bicycle-stand. O. Jackson. No. 924,074; June 8; Sp. p. 2113; Gaz. vol. 143; p. 353.  
 Bicycle support or stand. E. H. Stayt. No. 920,785; May 4; Sp. p. 1402; Gaz. vol. 142; p. 227.  
 Bilge-drainer. C. W. Moore. No. 931,633; Aug. 17; Sp. p. 4200; Gaz. vol. 145; p. 721.  
 Bilge-water discharger. C. A. Curry. No. 933,891; Sept. 14; Sp. p. 1892; Gaz. vol. 146; p. 312.  
 Bill-fold. S. L. Wentz. No. 932,205; Aug. 24; Sp. p. 5480; Gaz. vol. 145; p. 933.  
 Bill-holder. I. H. P. Colleen. No. 941,559; Nov. 30; Sp. p. 6852; Gaz. vol. 148; p. 1160.  
 Bill-hook. C. J. Kortz. No. 935,997; Oct. 5; Sp. p. 847; Gaz. vol. 147; p. 127.  
 Billet-heating furnace. C. J. F. Johnson. No. 938,424; Oct. 26; Sp. p. 5941; Gaz. vol. 147; p. 1007.  
 Billets and for other uses, Machine for reducing the walls of tubular. L. D. Davis. No. 928,946; July 27; Sp. p. 4640; Gaz. vol. 144; p. 833.  
 Billiard-chalk holder. F. Feldmann. No. 914,033; Mar. 2; Sp. p. 826; Gaz. vol. 140; p. 127.  
 Billiard-cue. L. Kálmánovits. No. 927,150; July 6; Sp. p. 935; Gaz. vol. 144; p. 151.  
 Billiard-cue. I. A. Gormon. No. 934,162; Sept. 14; Sp. p. 2443; Gaz. vol. 146; p. 401.  
 Billiard-cue. E. E. Moore. No. 935,218; Sept. 28; Sp. p. 4512; Gaz. vol. 146; p. 808.  
 Billiard-cue. W. M. Dunn. No. 936,614; Oct. 12; Sp. p. 2146; Gaz. vol. 147; p. 355.  
 Billiard-cue cutter. G. L. Lyman. No. 929,681; Aug. 3; Sp. p. 79; Gaz. vol. 145; p. 15.  
 Billiard-cue tip. I. A. Gormon. No. 934,163; Sept. 14; Sp. p. 2445; Gaz. vol. 146; p. 402.  
 Billiard-cue tip and fastener. C. Marx. No. 943,360; Dec. 14; Sp. p. 2860; Gaz. vol. 149; p. 481.  
 Billiard-marker, &c. H. R. Wildish. No. 909,494; Jan. 12; Sp. p. 2146; Gaz. vol. 138; p. 380.  
 Billiard-table. F. Hepton. No. 909,184; Jan. 12; Sp. p. 1553; Gaz. vol. 138; p. 280.  
 Billiard-table. K. A. A. Bracher. No. 921,651; May 11; Sp. p. 3209; Gaz. vol. 142; p. 548.  
 Billiard-table. I. Fuld. No. 924,978; June 15; Sp. p. 4944; Gaz. vol. 143; p. 689.

*Alphabetical list of inventions—Continued.*

- Billiard-table, Convertible pocket-carom. H. F. Davenport. No. 923,249; June 1; Sp. p. 267; Gaz. vol. 143; p. 44.  
 Billiard-tables, Construction and mounting of. C. A. Terrey and W. H. Warren. No. 926,516; June 29; Sp. p. 7126 Gaz. vol. 143; p. 1258.  
 Billing-board, Manifold. P. Hano. No. 910,919; Jan. 26; Sp. p. 5075; Gaz. vol. 138; p. 914.  
 Billing-sheet, Multiform. E. Z. Lewis. No. 932,713; Aug. 31; Sp. p. 6536; Gaz. vol. 145; p. 1125.  
 Bimetal, Manufacture of. A. Astruc. No. 924,413; June 8; Sp. p. 2853; Gaz. vol. 143; p. 466.  
 Bin: See Display-bin; Flour-bin; Grain-bin; Portable bin; Storage-bin.  
 Bin. J. Cameron and B. Randolph. No. 909,148; Jan. 12; Sp. p. 1488; Gaz. vol. 138; p. 270.  
 Bin indicating device. P. Swanson. No. 910,606; Jan. 26; Sp. p. 4476; Gaz. vol. 138; p. 816.  
 Binder. C. E. Richardson. No. 916,369; Mar. 23; Sp. p. 5482; Gaz. vol. 140; p. 973.  
 Binder. E. Willgeroth. No. 917,227; Apr. 6; Sp. p. 543; Gaz. vol. 141; p. 95.  
 Binder. H. S. Jones. No. 917,610; Apr. 6; Sp. p. 1262; Gaz. vol. 141; p. 223.  
 Binder. G. R. Farley. No. 918,027; Apr. 13; Sp. p. 2178; Gaz. vol. 141; p. 390.  
 Binder. A. Faifer. No. 925,886; June 22; Sp. p. 5877; Gaz. vol. 143; p. 1015.  
 Binder. J. D. Stow. No. 929,893; Aug. 3; Sp. p. 588; Gaz. vol. 145; p. 92.  
 Binder. H. V. Wagoner. No. 938,621; Nov. 2; Sp. p. 398; Gaz. vol. 148; p. 60.  
 Binder. A. C. Hafely. No. 941,142; Nov. 23; Sp. p. 5957; Gaz. vol. 148; p. 1002.  
 Binder. G. P. Wigginton. No. 941,481; Nov. 30; Sp. p. 6700; Gaz. vol. 148; p. 1135.  
 Binder. G. P. Wigginton and F. W. Hodges. No. 941,482; Nov. 30; Sp. p. 6703; Gaz. vol. 148; p. 1135.  
 Binder. J. W. Stevenson. No. 944,388; Dec. 28; Sp. p. 5047; Gaz. vol. 149; p. 888.  
 Binder and the like, Loose-leaf. J. H. Hewitt. No. 936,891; Oct. 12; Sp. p. 2686; Gaz. vol. 147; p. 448.  
 Binder attachment, Self-. E. Pennington. No. 941,945; Nov. 30; Sp. p. 7676; Gaz. vol. 148; p. 1293.  
 Binder, Check-stub. J. A. Mudd. No. 924,263; June 8; Sp. p. 2559; Gaz. vol. 143; p. 416.  
 Binder, file, loose-leaf book, &c., Temporary. J. Walker, Jr. No. 931,819; Aug. 24; Sp. p. 4654; Gaz. vol. 145; p. 806.  
 Binder for loose-leaf books. C. B. Chapman. No. 929,387; July 27; Sp. p. 5594; Gaz. vol. 144; p. 981.  
 Binder-frame. F. Grimme. No. 922,693; May 25; Sp. p. 5347; Gaz. vol. 142; p. 944.  
 Binder, Loose-leaf. J. L. McMillan. No. 910,714; Jan. 26; Sp. p. 4669; Gaz. vol. 138; p. 849.  
 Binder, Loose-leaf. O. H. Schraeger. No. 910,867; Jan. 26; Sp. p. 4975; Gaz. vol. 138; p. 898.  
 Binder, Loose-leaf. R. Krumming. No. 911,049; Feb. 2; Sp. p. 50; Gaz. vol. 139; p. 11.  
 Binder, Loose-leaf. A. B. Underwood. No. 913,073; Feb. 23; Sp. p. 4232; Gaz. vol. 139; p. 766.  
 Binder, Loose-leaf. C. H. Mann. No. 913,527; Feb. 23; Sp. p. 5154; Gaz. vol. 139; p. 919.  
 Binder, Loose-leaf. R. B. Wilson. No. 913,793; Mar. 2; Sp. p. 246; Gaz. vol. 140; p. 41.  
 Binder, Loose-leaf. C. R. Nelson. No. 914,063; Mar. 2; Sp. p. 878; Gaz. vol. 140; p. 136.  
 Binder, Loose-leaf. J. L. Baldauf. No. 914,781; Mar. 9; Sp. p. 2371; Gaz. vol. 140; p. 398.  
 Binder, Loose-leaf. C. S. McComb. No. 915,790; Mar. 23; Sp. p. 4414; Gaz. vol. 140; p. 783.  
 Binder, Loose-leaf. O. R. Mayer. No. 917,093; Apr. 6; Sp. p. 270; Gaz. vol. 141; p. 49.  
 Binder, Loose-leaf. F. W. Steuer. No. 917,972; Apr. 13; Sp. p. 2041; Gaz. vol. 141; p. 371.  
 Binder, Loose-leaf. S. C. Nott. No. 919,453; Apr. 27; Sp. p. 5353; Gaz. vol. 141; p. 925.  
 Binder, Loose-leaf. F. B. Jordan. No. 919,589; Apr. 27; Sp. p. 5660; Gaz. vol. 141; p. 972.  
 Binder, Loose-leaf. C. R. Nelson. No. 924,099; June 8; Sp. p. 2154; Gaz. vol. 143; p. 360.  
 Binder, Loose-leaf. C. M. Cott. No. 925,869; June 22; Sp. p. 5842; Gaz. vol. 143; p. 1010.  
 Binder, Loose-leaf. M. M. Smick. No. 926,901; July 6; Sp. p. 404; Gaz. vol. 144; p. 66.  
 Binder, Loose-leaf. L. Streit. No. 928,342; July 20; Sp. p. 3441; Gaz. vol. 144; p. 606.  
 Binder, Loose-leaf. S. H. Mitchell. No. 928,993; July 27; Sp. p. 4738; Gaz. vol. 144; p. 849.  
 Binder, Loose-leaf. C. M. Cott. No. 929,394; July 27; Sp. p. 5604; Gaz. vol. 144; p. 983.  
 Binder, Loose-leaf. J. L. McMillan. No. 930,783; Aug. 10; Sp. p. 2381; Gaz. vol. 145; p. 412.  
 Binder, Loose-leaf. S. H. Mitchell. No. 932,801; Aug. 31; Sp. p. 6730; Gaz. vol. 145; p. 1154.  
 Binder, Loose-leaf. J. C. Dawson. No. 934,430; Sept. 21; Sp. p. 2951; Gaz. vol. 146; p. 514.  
 Binder, Loose-leaf. C. C. Maltby. No. 934,452; Sept. 21; Sp. p. 2994; Gaz. vol. 146; p. 522.  
 Binder, Loose-leaf. J. S. McComb. No. 935,318; Sept. 28; Sp. p. 4714; Gaz. vol. 146; p. 836.  
 Binder, Loose-leaf. J. P. Mentzer. No. 935,767; Oct. 5; Sp. p. 317; Gaz. vol. 147; p. 49.  
 Binder, Loose-leaf. G. Spence. No. 937,191; Oct. 19; Sp. p. 3311; Gaz. vol. 147; p. 576.  
 Binder, Loose-leaf. E. P. Webster. No. 938,530; Nov. 2; Sp. p. 207; Gaz. vol. 148; p. 29.  
 Binder, Loose-leaf. J. S. McComb. No. 940,706; Nov. 23; Sp. p. 5014; Gaz. vol. 148; p. 856.  
 Binder, Loose-leaf. M. von Hertzberg. No. 941,198; Nov. 23; Sp. p. 6083; Gaz. vol. 148; p. 1021.  
 Binder, Loose-leaf. G. O. Olson. No. 942,098; Dec. 7; Sp. p. 132; Gaz. vol. 149; p. 21.  
 Binder, Loose-leaf. J. L. McMillan and C. H. Joslyn. No. 943,156; Dec. 14; Sp. p. 2431; Gaz. vol. 149; p. 413.  
 Binder, Loose-leaf. J. M. Lull. No. 943,431; Dec. 14; Sp. p. 2993; Gaz. vol. 149; p. 505.  
 Binder, Loose-leaf. G. C. Moore. No. 944,893; Dec. 28; Sp. p. 6167; Gaz. vol. 149; p. 1061.  
 Binder, Loose-leaf. G. C. Moore. No. 944,894; Dec. 28; Sp. p. 6169; Gaz. vol. 149; p. 1062.  
 Binder, Loose-leaf. G. C. Moore. No. 944,895; Dec. 28; Sp. p. 6171; Gaz. vol. 149; p. 1062.  
 Binder, Loose-sheet. W. P. Pitt. No. 943,844; Dec. 21; Sp. p. 3891; Gaz. vol. 149; p. 677.  
 Binder, Loose-sheet-book. E. Jay. No. 938,057; Oct. 26; Sp. p. 5129; Gaz. vol. 147; p. 881.  
 Binder, Loose-sheet-pressure. J. W. Meaker. Jr. No. 924,170; June 8; Sp. p. 2348; Gaz. vol. 143; p. 384.  
 Binder or loose-sheet holder, Temporary. F. Pink and J. P. Petty. No. 909,331; Jan. 12; Sp. p. 1829; Gaz. vol. 138; p. 328.  
 Binder or loose-sheet holder, Temporary. H. F. Bushong. No. 912,361; Feb. 16; Sp. p. 2760; Gaz. vol. 139; p. 503.  
 Binder or loose-sheet holder, Temporary. H. F. Bushong. No. 914,383; Mar. 9; Sp. p. 1561; Gaz. vol. 140; p. 265.  
 Binder or loose-sheet holder, Temporary. G. H. Renworth. No. 932,059; Aug. 24; Sp. p. 5189; Gaz. vol. 145; p. 885.  
 Binder or loose-sheet holder, Temporary. H. F. Bushong. No. 940,508; Nov. 16; Sp. p. 4589; Gaz. vol. 148; p. 766.  
 Binder or loose-sheet holder, Temporary. H. F. Bushong. No. 944,256; Dec. 28; Sp. p. 4761; Gaz. vol. 149; p. 841.  
 Binder-post attachment means. R. Krumming. No. 933,714; Sept. 7; Sp. p. 1539; Gaz. vol. 146; p. 233.  
 Binder post, Loose-leaf-. F. H. Crump. No. 944,179; Dec. 21; Sp. p. 4607; Gaz. vol. 149; p. 790.  
 Binder, Publication-. E. B. Arnold. No. 916,963; Apr. 6; Sp. p. 5; Gaz. vol. 141; p. 4.  
 Binder, Publication-. A. M. Sonnichsen. No. 917,674; Apr. 6; Sp. p. 1380; Gaz. vol. 141; p. 243.  
 Binder sheaf-carrier. J. G. Pillow. No. 928,067; July 13; Sp. p. 2831; Gaz. vol. 144; p. 483.  
 Binder shocking attachment. W. H. Perrin. No. 908,695; Jan. 5; Sp. p. 558; Gaz. vol. 138; p. 87.  
 Binder, Stack and rick. T. V. Rutter. No. 929,500; July 27; Sp. p. 5785; Gaz. vol. 144; p. 1015.  
 Binder, Temporary. L. M. Morden. No. 908,596; Jan. 5; Sp. p. 348; Gaz. vol. 138; p. 57.  
 Binder, Temporary. L. M. Morden. No. 908,597; Jan. 5; Sp. p. 351; Gaz. vol. 138; p. 57.  
 Binder, Temporary. L. M. Morden. No. 908,598; Jan. 5; Sp. p. 354; Gaz. vol. 138; p. 57.  
 Binder, Temporary. H. Herdegen. No. 911,396; Feb. 2; Sp. p. 728; Gaz. vol. 139; p. 125.  
 Binder, Temporary. C. A. Hartmann. No. 914,953; Mar. 9; Sp. p. 2697; Gaz. vol. 140; p. 453.  
 Binder, Temporary. J. J. Diehl. No. 915,163; Mar. 16; Sp. p. 3129; Gaz. vol. 140; p. 549.  
 Binder, Temporary. W. Leach. No. 917,773; Apr. 13; Sp. p. 1629; Gaz. vol. 141; p. 303.  
 Binder, Temporary. O. H. Schraeger. No. 918,707; Apr. 20; Sp. p. 3642; Gaz. vol. 141; p. 646.  
 Binder, Temporary. W. S. Mendenhall. No. 918,763; Apr. 20; Sp. p. 3744; Gaz. vol. 141; p. 664.  
 Binder, Temporary. C. D. Trussell. No. 919,497; Apr. 27; Sp. p. 5482; Gaz. vol. 141; p. 941.  
 Binder, Temporary. F. P. Impey. No. 920,146; May 4; Sp. p. 107; Gaz. vol. 142; p. 16.  
 Binder, Temporary. G. C. Shepherd. No. 920,780; May 4; Sp. p. 1391; Gaz. vol. 142; p. 225.  
 Binder, Temporary. C. R. Nelson. No. 920,995; May 11; Sp. p. 1813; Gaz. vol. 142; p. 322.  
 Binder, Temporary. G. A. Shoemaker and E. C. Holland. No. 921,012; May 11; Sp. p. 1867; Gaz. vol. 142; p. 331.  
 Binder, Temporary. G. C. Shepherd. No. 921,469; May 11; Sp. p. 2830; Gaz. vol. 142; p. 486.  
 Binder, Temporary. W. S. Mendenhall. No. 927,741; July 13; Sp. p. 2156; Gaz. vol. 144; p. 373.  
 Binder, Temporary. C. D. Trussell. No. 934,770; Sept. 21; Sp. p. 3606; Gaz. vol. 146; p. 629.  
 Binder, Temporary. G. H. Moore. No. 940,345; Nov. 16; Sp. p. 4215; Gaz. vol. 148; p. 711.  
 Binder, Temporary. F. H. Curry and L. R. Copping. No. 943,006; Dec. 14; Sp. p. 2100; Gaz. vol. 149; p. 361.  
 Binder, Temporary or transfer. J. J. Diehl. No. 935,591; Sept. 28; Sp. p. 5276; Gaz. vol. 146; p. 925.  
 Binders and compositions, Producing bituminous. W. S. Wilkinson. No. 915,260; Mar. 16; Sp. p. 3321; Gaz. vol. 140; p. 580.  
 Binders, Extensible pillar or post for loose-leaf. J. S. McComb. No. 934,746; Sept. 21; Sp. p. 3557; Gaz. vol. 146; p. 620.  
 Binders, Extensible post for loose-leaf. J. S. McComb. No. 940,705; Nov. 23; Sp. p. 5012; Gaz. vol. 148; p. 856.  
 Binders, Leaf or sheet for loose-leaf. C. C. Maltby. No. 920,072; Apr. 27; Sp. p. 6654; Gaz. vol. 141; p. 1132.  
 Binders, Means for securing pages of loose-leaf. J. S. McComb. No. 913,906; Mar. 2; Sp. p. 507; Gaz. vol. 140; p. 82.  
 Binders, Sheet for loose-leaf. J. S. McComb. No. 915,789; Mar. 23; Sp. p. 4412; Gaz. vol. 140; p. 783.



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- Binders, Support for loose-leaf. J. S. McComb. No. 940,707; Nov. 23; Sp. p. 5015; Gaz. vol. 148; p. 857.
- Binding device. E. Neumeister. No. 925,017; June 15; Sp. p. 4123; Gaz. vol. 143; p. 702.
- Binding-machine. C. F. McBee. No. 943,094; Dec. 14; Sp. p. 2308; Gaz. vol. 149; p. 391.
- Binding-nicking machine. E. E. Sanborn. No. 942,934; Dec. 14; Sp. p. 1931; Gaz. vol. 149; p. 336.
- Binding-post. J. W. Feerrer. No. 912,237; Feb. 9; Sp. p. 2451; Gaz. vol. 139; p. 423.
- Binding-post. C. Barbour. No. 914,327; Mar. 2; Sp. p. 1430; Gaz. vol. 140; p. 221.
- Binding-post. H. E. Reeve. No. 916,486; Mar. 30; Sp. p. 5745; Gaz. vol. 140; p. 1037.
- Binding-post. H. E. Leppert. No. 938,672; Nov. 2; Sp. p. 508; Gaz. vol. 148; p. 77.
- Binding-post. H. E. Leppert. No. 940,335; Nov. 16; Sp. p. 4198; Gaz. vol. 148; p. 707.
- Binding-post. A. Lünge. No. 940,397; Nov. 16; Sp. p. 4360; Gaz. vol. 148; p. 729.
- Binding-post. L. Steinberger. No. 941,893; Nov. 30; Sp. p. 7581; Gaz. vol. 148; p. 1276.
- Binding-sheet-music, Device for. A. F. Engel. No. 924,650; June 15; Sp. p. 3350; Gaz. vol. 143; p. 577.
- Bindings to sheets of material, Machine for applying. F. C. Lothrop. No. 937,313; Oct. 19; Sp. p. 3559; Gaz. vol. 147; p. 615.
- Binocular. K. Martin and G. Stiege. No. 937,834; Oct. 26; Sp. p. 4660; Gaz. vol. 147; p. 807.
- Bird and insect catcher, Combined. C. H. Martin and W. N. Ross. No. 919,907; Apr. 27; Sp. p. 6315; Gaz. vol. 141; p. 1079.
- Bird-cage and the like. G. M. Porter. No. 936,032; Oct. 5; Sp. p. 913; Gaz. vol. 147; p. 138.
- Biscuit-coating machine. H. Tietjens. No. 943,284; Dec. 14; Sp. p. 2699; Gaz. vol. 149; p. 450.
- Biscuit-cutter. C. H. Hawbolt. No. 929,215; July 27; Sp. p. 5200; Gaz. vol. 144; p. 922.
- Biscuits, Machine for making shredded-wheat. W. E. Williams. No. 931,243; Aug. 17; Sp. p. 3427; Gaz. vol. 145; p. 595.
- Bit; *See* Adjustable bit; Auger-bit; Boring-bit; Bridle-bit; Check-bit; Double bit; Horse-bit; Packing-extracting bit.
- Bit. J. C. Krause. No. 917,951; Apr. 13; Sp. p. 1994; Gaz. vol. 141; p. 363.
- Bit. R. I. Watts. No. 919,503; Apr. 27; Sp. p. 5490; Gaz. vol. 141; p. 943.
- Bit. M. R. Sibbitt. No. 933,396; Sept. 7; Sp. p. 816; Gaz. vol. 146; p. 127.
- Bit and pin-drill, Recessing-. W. F. Prentiss. No. 918,365; Apr. 13; Sp. p. 2843; Gaz. vol. 141; p. 503.
- Bit-brace. W. P. Johnson. No. 923,848; June 8; Sp. p. 1691; Gaz. vol. 143; p. 281.
- Bit extension. J. A. Leland. No. 929,231; July 27; Sp. p. 5234; Gaz. vol. 144; p. 927.
- Bit-gage. W. J. Parsons. No. 922,808; May 25; Sp. p. 5582; Gaz. vol. 142; p. 980.
- Bit-stock. C. B. Gilmore. No. 919,156; Apr. 20; Sp. p. 4530; Gaz. vol. 141; p. 792.
- Bit-stock. C. R. Frink. No. 933,639; Sept. 7; Sp. p. 1377; Gaz. vol. 146; p. 206.
- Bit-stock, Angular. S. A. Plough. No. 912,886; Feb. 16; Sp. p. 3851; Gaz. vol. 139; p. 679.
- Bit-wrench. T. Booth. No. 925,745; June 22; Sp. p. 5552; Gaz. vol. 143; p. 968.
- Bitumen from bitumen-bearing ore, Means for separating. G. M. Willis. No. 918,629; Apr. 20; Sp. p. 3425; Gaz. vol. 141; p. 618.
- Bitumen from bitumen-bearing ore, Process and apparatus for extracting. G. M. Willis. No. 918,628; Apr. 20; Sp. p. 3422; Gaz. vol. 141; p. 617.
- Bivalves, Preservation of. A. A. Freeman. No. 944,027; Dec. 21; Sp. p. 4297; Gaz. vol. 149; p. 740.
- Blackboard tray attachment. J. W. Hainline. No. 923,262; June 1; Sp. p. 311; Gaz. vol. 143; p. 49.
- Blackening and polishing machine, Shoe. J. C. C. Scheer. No. 920,884; May 4; Sp. p. 1620; Gaz. vol. 142; p. 258.
- Blackening-box. C. E. Conder. No. 914,638; Mar. 9; Sp. p. 2059; Gaz. vol. 140; p. 350.
- Blackening-box. J. F. Pinson. No. 932,171; Aug. 24; Sp. p. 5409; Gaz. vol. 145; p. 923.
- Blackening machine, Edge-. W. E. Wentzel. No. 933,009; Aug. 31; Sp. p. 7102; Gaz. vol. 145; p. 1221.
- Blade and handle, Separable. R. H. Juenge. No. 909,908; Jan. 19; Sp. p. 2981; Gaz. vol. 138; p. 553.
- Blade-attaching means. H. Krüger. No. 921,547; May 11; Sp. p. 2978; Gaz. vol. 142; p. 512.
- Blade-carrying elements, Covering for. F. Hodgkinson. No. 930,858; Aug. 10; Sp. p. 2535; Gaz. vol. 145; p. 438.
- Blade-fastener. N. C. Bassett. No. 915,710; Mar. 16; Sp. p. 4244; Gaz. vol. 140; p. 731.
- Blade-holder. J. B. Duhring and J. C. Wobensmith. No. 914,707; Mar. 9; Sp. p. 2221; Gaz. vol. 140; p. 373.
- Blade-holding means. H. L. Barton. No. 940,778; Nov. 23; Sp. p. 5188; Gaz. vol. 148; p. 881.
- Blade-molding means. F. Hodgkinson. No. 943,348; Dec. 14; Sp. p. 2837; Gaz. vol. 149; p. 477.
- Blade-mounting means. J. E. Snyder. No. 943,480; Dec. 14; Sp. p. 3105; Gaz. vol. 149; p. 523.
- Blade-sharpening apparatus. J. W. Leslie. No. 909,098; Jan. 5; Sp. p. 1365; Gaz. vol. 138; p. 219.
- Blade-sharpening machine. R. S. Green. No. 913,954; Mar. 2; Sp. p. 620; Gaz. vol. 140; p. 98.
- Blank-conveying apparatus. P. H. Standish. No. 919,487; Apr. 27; Sp. p. 5441; Gaz. vol. 141; p. 937.
- Blank-feeding device. A. F. Jones. No. 937,001; Oct. 12; Sp. p. 2902; Gaz. vol. 147; p. 483.
- Blank-furnace. W. Scrimgeour. No. 933,002; Aug. 31; Sp. p. 7086; Gaz. vol. 145; p. 1219.
- Blank-heating furnace. V. Anderson. No. 924,125; June 8; Sp. p. 2208; Gaz. vol. 143; p. 368.
- Blank-shaping machine. C. W. Graham. No. 920,131; May 4; Sp. p. 83; Gaz. vol. 142; p. 12.
- Blanks, Cutting. E. S. Stiles. No. 927,293; July 6; Sp. p. 1210; Gaz. vol. 144; p. 199.
- Blanks, Machine for the formation of. D. J. Bogan. No. 938,115; Oct. 26; Sp. p. 5251; Gaz. vol. 147; p. 901.
- Blanks, Making ornamental. G. U. Meyer. No. 921,722; May 18; Sp. p. 3358; Gaz. vol. 142; p. 598.
- Blanket and sleeping-bag, Combined. E. Benger. No. 917,403; Apr. 6; Sp. p. 900; Gaz. vol. 141; p. 155.
- Blanket-clamp. D. E. Coe. No. 914,637; Mar. 9; Sp. p. 2058; Gaz. vol. 140; p. 350.
- Blanket-grip. C. Ross, Jr. No. 927,286; July 6; Sp. p. 1196; Gaz. vol. 144; p. 197.
- Blast and pressure meter. E. H. Schulz. No. 931,348; Aug. 17; Sp. p. 3659; Gaz. vol. 145; p. 631.
- Blast apparatus. E. L. Thompson. No. 913,322; Feb. 23; Sp. p. 4752; Gaz. vol. 139; p. 850.
- Blast-furnace. S. K. Hine and W. R. Phipps. No. 915,601; Mar. 16; Sp. p. 4006; Gaz. vol. 140; p. 692.
- Blast-furnace. E. B. Cook. No. 936,308; Oct. 12; Sp. p. 1458; Gaz. vol. 147; p. 252.
- Blast-furnace-charging apparatus. F. C. Roberts. No. 929,631; July 27; Sp. p. 6050; Gaz. vol. 144; p. 1059.
- Blast-hole charger. A. Böhy. No. 944,938; Dec. 28; Sp. p. 6257; Gaz. vol. 149; p. 1075.
- Blasting-cartridge. T. Turlon. No. 936,192; Oct. 5; Sp. p. 1238; Gaz. vol. 147; p. 187.
- Blasting charges, Machine for fixing. O. F. Malcolm. No. 913,745; Mar. 2; Sp. p. 144; Gaz. vol. 140; p. 25.
- Blasting device. C. P. McGregor. No. 921,144; May 11; Sp. p. 2140; Gaz. vol. 142; p. 377.
- Blasting device. J. Phillips. No. 931,341; Aug. 17; Sp. p. 3646; Gaz. vol. 145; p. 629.
- Bleaching. F. Fuhrmann. No. 927,457; July 6; Sp. p. 1538; Gaz. vol. 144; p. 253.
- Bleaching and preparing straw from the Southern palm. E. Pickett. No. 926,765; July 6; Sp. p. 121; Gaz. vol. 144; p. 19.
- Bleaching apparatus. W. B. Lewis. No. 921,853; May 18; Sp. p. 3643; Gaz. vol. 142; p. 642.
- Bleaching, cleansing, and sizing compound. S. A. Flower. No. 936,228; Oct. 5; Sp. p. 1296; Gaz. vol. 147; p. 198.
- Blind. E. A. Foster. No. 932,263; Aug. 24; Sp. p. 5589; Gaz. vol. 145; p. 953.
- Blind adjuster. Venetian-. W. McKnight. No. 909,927; Jan. 19; Sp. p. 3024; Gaz. vol. 138; p. 560.
- Blind and screen, Combined. L. H. Lempert. No. 922,705; May 25; Sp. p. 5373; Gaz. vol. 142; p. 947.
- Blind and screen, Window-. W. R. Derr. No. 930,743; Aug. 10; Sp. p. 2305; Gaz. vol. 145; p. 400.
- Blind, Awning-. W. D. Williams. No. 928,012; July 13; Sp. p. 2718; Gaz. vol. 144; p. 463.
- Blind-closer. E. Johnson. No. 917,448; Apr. 6; Sp. p. 975; Gaz. vol. 141; p. 169.
- Blind-lock. E. J. Dwyer. No. 925,882; June 22; Sp. p. 5865; Gaz. vol. 143; p. 1014.
- Blind operator, Window-. W. J. Sterling. No. 927,894; July 13; Sp. p. 2487; Gaz. vol. 144; p. 425.
- Blind or screen fastening, Storm. C. Singer. No. 929,507; July 27; Sp. p. 5797; Gaz. vol. 144; p. 1017.
- Blind-slat adjuster. E. W. F. Herrmann. No. 929,428; July 27; Sp. p. 5654; Gaz. vol. 144; p. 993.
- Blind-slat fastener. J. B. Riley. No. 942,930; Dec. 14; Sp. p. 1923; Gaz. vol. 149; p. 335.
- Blind-stop. H. L. Beadle. No. 941,552; Nov. 30; Sp. p. 6838; Gaz. vol. 148; p. 1158.
- Blind, Window-. G. P. Mitchell. No. 922,798; May 25; Sp. p. 5560; Gaz. vol. 142; p. 977.
- Blinds, Mechanism for operating Venetian. F. C. Thompson. No. 926,911; July 6; Sp. p. 433; Gaz. vol. 144; p. 69.
- Block; *See* Building-block; Cement block; Cement building-block; Concrete block; Concrete building-block; Die-block; Die-supporting block; Engraver's block; Engraving-block; Friction-block; Fuse-block; Fuse and fuse-block; Hoist-block; Keel-block; Molding branch block; Paving-block; Pulley-block; Railway lining-block; Railway-track safety-block; Road-locking block; Saddle-block; Sewer-construction block; Sheave-block; Shoe-block; Snatch-block; Spring-block; Toy block; Twyer-block; Wheel-block.
- Block core, Hollow-. M. Outeda. No. 937,637; Oct. 19; Sp. p. 4248; Gaz. vol. 147; p. 724.
- Block-forming machine. G. L. Langer. No. 932,035; Aug. 24; Sp. p. 5133; Gaz. vol. 145; p. 877.
- Block-forming machine. C. R. Walter. No. 934,112; Sept. 14; Sp. p. 2332; Gaz. vol. 146; p. 353.
- Block-machine. W. L. Keller. No. 934,320; Sept. 14; Sp. p. 2727; Gaz. vol. 146; p. 453.
- Block-machine, Centrifugal. M. Nashold. (Reissue.) No. 12,935; Apr. 6; Sp. p. 1533; Gaz. vol. 141; p. 267.
- Block-mold. H. Bresser. No. 908,944; Jan. 5; Sp. p. 1044; Gaz. vol. 138; p. 168.
- Block-mold. J. D. Barber. No. 926,231; June 29; Sp. p. 6009; Gaz. vol. 143; p. 1106.
- Block-mold. E. May. No. 942,092; Dec. 7; Sp. p. 124; Gaz. vol. 149; p. 20.
- Block-molding press. J. C. Titus. No. 918,712; Apr. 20; Sp. p. 3652; Gaz. vol. 141; p. 647.

*Alphabetical list of inventions—Continued.*

- Block mounting, Swivel-. J. Ward. No. 914,683; Mar. 9; Sp. p. 2170; Gaz. vol. 140; p. 364.  
 Block-press. E. Sprenger. No. 923,595; June 1; Sp. p. 1086; Gaz. vol. 143; p. 166.  
 Block railway-signal, Electric. E. B. Samuels. No. 926,022; June 22; Sp. p. 6136; Gaz. vol. 143; p. 1059.  
 Block-signal. C. H. Roth and H. A. Harrington. No. 910,957; Jan. 26; Sp. p. 5146; Gaz. vol. 138; p. 927.  
 Block-signal. M. J. Feron. No. 912,103; Feb. 9; Sp. p. 2214; Gaz. vol. 139; p. 382.  
 Block-signal for trolley systems, Automatic. P. N. Pecci. No. 926,437; June 29; Sp. p. 6995; Gaz. vol. 143; p. 1232.  
 Block-signal system. F. B. Corey. No. 909,158; Jan. 12; Sp. p. 1504; Gaz. vol. 138; p. 272.  
 Block-signal system. G. S. Plasterer. No. 913,557; Feb. 23; Sp. p. 5245; Gaz. vol. 139; p. 930.  
 Block-signal system. F. Rhea. No. 925,026; June 15; Sp. p. 4144; Gaz. vol. 143; p. 705.  
 Block-signal system. R. W. Taynton. No. 925,611; June 22; Sp. p. 5261; Gaz. vol. 143; p. 925.  
 Block-signal system. A. G. Davis. No. 927,404; July 6; Sp. p. 1406; Gaz. vol. 144; p. 233.  
 Block-signal system. L. A. Hawkins. No. 929,591; July 27; Sp. p. 5943; Gaz. vol. 144; p. 1045.  
 Block-signal system. H. H. Sims, J. M. Hatch, and J. M. Turrentine. No. 935,614; Sept. 28; Sp. p. 5322; Gaz. vol. 146; p. 934.  
 Block-signal system. L. A. Hawkins. No. 937,439; Oct. 19; Sp. p. 3852; Gaz. vol. 147; p. 656.  
 Block-signal system. L. A. Hawkins. No. 937,440; Oct. 19; Sp. p. 3856; Gaz. vol. 147; p. 657.  
 Block-signal system. L. A. Hawkins. No. 937,737; Oct. 19; Sp. p. 4448; Gaz. vol. 147; p. 755.  
 Block-signal system. L. A. Hawkins. No. 937,738; Oct. 19; Sp. p. 4452; Gaz. vol. 147; p. 755.  
 Block-signal system. J. D. Nix and L. M. Dalgarn. No. 938,331; Oct. 26; Sp. p. 5726; Gaz. vol. 147; p. 975.  
 Block-signal system, Automatic. S. H. Harrington. No. 918,539; Apr. 20; Sp. p. 3219; Gaz. vol. 141; p. 588.  
 Block-signal system, Automatic electric. H. W. Price. No. 923,296; June 1; Sp. p. 426; Gaz. vol. 143; p. 60.  
 Block-signal system, Electric. P. J. Simmen. No. 910,593; Jan. 26; Sp. p. 4450; Gaz. vol. 138; p. 811.  
 Block-signal system, Electric-railway. M. E. Launbranch. No. 923,796; June 1; Sp. p. 1563; Gaz. vol. 143; p. 233.  
 Block-signal systems, Automatic train controlling and signaling mechanism for. H. W. Price. No. 923,297; June 1; Sp. p. 434; Gaz. vol. 143; p. 61.  
 Block-signaling apparatus. S. A. Wood. No. 939,370; Nov. 9; Sp. p. 2040; Gaz. vol. 148; p. 344.  
 Block-signaling system. N. P. Fraser. No. 912,301; Feb. 16; Sp. p. 2633; Gaz. vol. 139; p. 484.  
 Block-signaling system. H. M. Coulter. No. 914,386; Mar. 9; Sp. p. 1568; Gaz. vol. 140; p. 266.  
 Block-signaling system. D. J. McCarthy. No. 928,396; July 20; Sp. p. 3535; Gaz. vol. 144; p. 625.  
 Block-signaling system. F. F. Brush. No. 939,973; Nov. 16; Sp. p. 3349; Gaz. vol. 148; p. 579.  
 Block-signaling system, Electric. W. F. Meschenmoser and C. H. Kinsman. No. 935,768; Oct. 5; Sp. p. 318; Gaz. vol. 50; p. 147.  
 Block-surfacing machine, Butcher-. H. E. Pfeiffer. No. 921,451; May 11; Sp. p. 2793; Gaz. vol. 142; p. 480.  
 Blood-draining tube. C. B. Doldge and R. J. Holzhausen. No. 923,416; June 1; Sp. p. 692; Gaz. vol. 143; p. 102.  
 Blood-pressure measuring and indicating apparatus. F. A. Faught. No. 917,276; Apr. 6; Sp. p. 652; Gaz. vol. 141; p. 111.  
 Blooms, Producing hollow. J. G. Inshaw. No. 924,615; June 8; Sp. p. 3269; Gaz. vol. 143; p. 533.  
 Blotter-holder. A. I. Cole. No. 924,739; June 15; Sp. p. 3544; Gaz. vol. 143; p. 608.  
 Blow-off pipes, Protector for. A. R. Chambers. No. 940,427; Nov. 16; Sp. p. 4415; Gaz. vol. 148; p. 738.  
 Blower. A. T. Noe. No. 918,358; Apr. 13; Sp. p. 2829; Gaz. vol. 141; p. 501.  
 Blower, Air-fue. L. Lunstrum. No. 938,495; Nov. 2; Sp. p. 107; Gaz. vol. 148; p. 17.  
 Blower for peas or the like. A. H. Wheeler. No. 921,764; May 18; Sp. p. 3440; Gaz. vol. 142; p. 612.  
 Blower or pump. F. J. Miner. No. 940,984; Nov. 23; Sp. p. 5601; Gaz. vol. 148; p. 949.  
 Blower, Pressure-. E. Bassler. No. 928,624; July 20; Sp. p. 3997; Gaz. vol. 144; p. 698.  
 Blower, Rotary. L. E. Fagan. No. 912,549; Feb. 16; Sp. p. 3162; Gaz. vol. 139; p. 567.  
 Blower, Rotary. L. E. Fagan. No. 940,587; Nov. 16; Sp. p. 4753; Gaz. vol. 148; p. 792.  
 Blower, Steam-jet. C. T. Coe. No. 923,490; June 1; Sp. p. 838; Gaz. vol. 143; p. 127.  
 Blowing-can. A. Eckardt. No. 913,816; Mar. 2; Sp. p. 289; Gaz. vol. 140; p. 49.  
 Blowing-engine. G. B. Petsche. No. 912,486; Feb. 16; Sp. p. 3011; Gaz. vol. 139; p. 544.  
 Blowpipe. J. H. Draeger. No. 917,934; Apr. 13; Sp. p. 1963; Gaz. vol. 141; p. 356.  
 Blowpipe. J. Harris. No. 920,054; Apr. 27; Sp. p. 6623; Gaz. vol. 141; p. 1126.  
 Blowpipe. E. S. Kimball. No. 931,623; Aug. 17; Sp. p. 4189; Gaz. vol. 145; p. 718.  
 Blowpipe. C. D. Fitzsimmons. No. 934,614; Sept. 21; Sp. p. 3107; Gaz. vol. 146; p. 542.  
 Blowpipe. J. H. Flower. No. 936,769; Oct. 12; Sp. p. 2450; Gaz. vol. 147; p. 407.  
 Blowpipe. J. F. Williams. No. 942,690; Dec. 7; Sp. p. 1357; Gaz. vol. 149; p. 243.  
 Blowpipe. E. Odum. No. 943,043; Dec. 14; Sp. p. 2202; Gaz. vol. 149; p. 374.  
 Blowpipe, Acetylene-. H. H. Snyder. No. 912,500; Feb. 16; Sp. p. 3038; Gaz. vol. 139; p. 549.  
 Blowpipe for calcining incandescent filaments. G. Auger. No. 937,277; Oct. 19; Sp. p. 3497; Gaz. vol. 147; p. 605.  
 Blue-flame burner. A. J. Blackford. No. 915,656; Mar. 16; Sp. p. 4140; Gaz. vol. 140; p. 714.  
 Blue-flame burner. H. Hurwitz and R. Lehming. No. 917,302; Apr. 6; Sp. p. 711; Gaz. vol. 141; p. 121.  
 Blue-flame burner, Wick. A. J. Blackford. No. 944,840; Dec. 28; Sp. p. 6057; Gaz. vol. 149; p. 1043.  
 Blue-print washer. H. C. Gawler. No. 933,640; Sept. 7; Sp. p. 1378; Gaz. vol. 146; p. 206.  
 Bluing device. A. L. Willocks and A. P. Thorley. No. 939,649; Nov. 9; Sp. p. 2658; Gaz. vol. 148; p. 440.  
 Board: See Announcement-board; Annunciator-board; Billing-board; Box-board; Carving-board; Cheese-holding board; Cloth-bolt board; Composition-board; Cooling-board; Directory-board; Drain-board; Footboard; Game-board; Hammer drop-board; Ironing-board; Kneading-board; Marking-board; Metering panel-board; Musical-instrument duplex tracker-board; Musical-instrument tracker-board; Panel-board; Piano attachment adjustable tracker-board; Piano fall-board; Piano sounding-board; Pitch-board; Plaster-board; Pulp-board; Scoop-board; Score-board; Shovel-board; Shoveling-board; Solitaire-board; Switch-board; Teeter-board; Thread-board; Tracker-board; Vehicle foot-board; Washboard.  
 Board, Apparatus for manufacture of composition. J. Ferla. No. 940,449; Nov. 16; Sp. p. 4465; Gaz. vol. 148; p. 746.  
 Board-forming machine, Pulp-. F. M. Chapman. No. 910,358; Jan. 19; Sp. p. 3938; Gaz. vol. 138; p. 708.  
 Board gage, Multiple. B. D. Stevens. No. 908,513; Jan. 5; Sp. p. 161; Gaz. vol. 138; p. 29.  
 Board-making machine, Cellular. S. M. Larston. No. 916,170; Mar. 23; Sp. p. 5123; Gaz. vol. 140; p. 906.  
 Board-unfolding machine, Matched-. C. Johnson. No. 915,096; Mar. 16; Sp. p. 2972; Gaz. vol. 140; p. 526.  
 Boards, Manufacturing composition. J. Ferla. No. 940,450; Nov. 16; Sp. p. 4468; Gaz. vol. 148; p. 746.  
 Boat. N. B. Broward. No. 911,806; Feb. 9; Sp. p. 1534; Gaz. vol. 139; p. 285.  
 Boat. I. Anderson. No. 913,868; Mar. 2; Sp. p. 423; Gaz. vol. 140; p. 68.  
 Boat. G. White. No. 919,102; Apr. 20; Sp. p. 4427; Gaz. vol. 141; p. 773.  
 Boat. A. E. Apel. No. 928,579; July 20; Sp. p. 3909; Gaz. vol. 144; p. 683.  
 Boat. W. N. Bell. No. 931,177; Aug. 17; Sp. p. 3277; Gaz. vol. 145; p. 571.  
 Boat. A. Niedringhaus. No. 933,331; Sept. 7; Sp. p. 678; Gaz. vol. 146; p. 105.  
 Boat. C. S. Frost. No. 933,426; Sept. 7; Sp. p. 875; Gaz. vol. 146; p. 137.  
 Boat. F. M. Thompson. No. 934,373; Sept. 14; Sp. p. 2823; Gaz. vol. 146; p. 472.  
 Boat. W. T. Urie. No. 939,878; Nov. 9; Sp. p. 3135; Gaz. vol. 148; p. 517.  
 Boat. C. Hoffman. No. 941,923; Nov. 30; Sp. p. 7636; Gaz. vol. 148; p. 1286.  
 Boat. W. J. Reed. No. 944,209; Dec. 21; Sp. p. 4659; Gaz. vol. 149; p. 798.  
 Boat and propeller mechanism. F. E. Cook. No. 916,840; Mar. 30; Sp. p. 6440; Gaz. vol. 140; p. 1150.  
 Boat and tent, Convertible. J. Vaghi. No. 931,529; Aug. 17; Sp. p. 4005; Gaz. vol. 145; p. 690.  
 Boat and vessel. F. Igatz. No. 935,905; Sept. 14; Sp. p. 1919; Gaz. vol. 146; p. 317.  
 Boat, Bathing-. F. F. Gallagher and J. F. Burke. No. 918,994; Apr. 20; Sp. p. 4241; Gaz. vol. 141; p. 741.  
 Boat, Compound. J. D. White. No. 942,687; Dec. 7; Sp. p. 1354; Gaz. vol. 149; p. 222.  
 Boat construction. W. H. Cole. No. 927,640; July 13; Sp. p. 1947; Gaz. vol. 144; p. 341.  
 Boat-davit. F. G. Sanborn and W. A. Hesse. No. 915,118; Mar. 16; Sp. p. 3029; Gaz. vol. 140; p. 535.  
 Boat-dumping apparatus, Canal-. G. E. Ticombe. No. 915,224; Apr. 13; Sp. p. 2555; Gaz. vol. 141; p. 457.  
 Boat for shallow waters. A. C. Larr. No. 921,849; May 18; Sp. p. 3635; Gaz. vol. 142; p. 640.  
 Boat for submarine vessels, Life-. H. J. Walles. No. 932,921; Aug. 31; Sp. p. 6937; Gaz. vol. 145; p. 1192.  
 Boat, Hydroplane-. L. E. Simpson. No. 909,468; Jan. 12; Sp. p. 2089; Gaz. vol. 138; p. 372.  
 Boat, Hydroplane-. W. H. Fauber. No. 920,849; May 4; Sp. p. 1525; Gaz. vol. 142; p. 247.  
 Boat, Land and water. A. G. Cummings. No. 919,829; Apr. 27; Sp. p. 6170; Gaz. vol. 141; p. 1053.  
 Boat, Life-. J. H. Stoelt. No. 919,974; Apr. 27; Sp. p. 6439; Gaz. vol. 141; p. 1100.  
 Boat-lowering device, Life-. C. J. Christensen. No. 940,512; Nov. 16; Sp. p. 4598; Gaz. vol. 148; p. 767.  
 Boat or vessel. E. M. Hackett. No. 915,429; Mar. 16; Sp. p. 3653; Gaz. vol. 140; p. 636.  
 Boat or yacht. J. M. Gibbons. No. 919,343; Apr. 27; Sp. p. 5117; Gaz. vol. 141; p. 888.  
 Boat-paddle. C. C. Richardson. No. 936,165; Oct. 5; Sp. p. 1184; Gaz. vol. 147; p. 180.  
 Boat-planking, Securing means for. J. M. Alexander and M. Willhahn. No. 942,478; Dec. 7; Sp. p. 945; Gaz. vol. 149; p. 152.



*Alphabetical list of inventions—Continued.*

- Boat-plug. J. W. Danford. No. 936,312; Oct. 12; Sp. p. 1465; Gaz. vol. 147; p. 253.
- Boat-propeller. E. Daniel. No. 913,624; Feb. 23; Sp. p. 5385; Gaz. vol. 139; p. 952.
- Boat propelling mechanism. J. T. Stafford. No. 912,198; Feb. 9; Sp. p. 2386; Gaz. vol. 139; p. 411.
- Boat-pusher head. W. Schilling. No. 910,090; Jan. 19; Sp. p. 3338; Gaz. vol. 138; p. 614.
- Boat-raising and lowering apparatus, Ship's-. A. Welin. (Reissue.) No. 12,979; June 22; Sp. p. 6285; Gaz. vol. 143; p. 1083.
- Boat-raising or lowering apparatus, Ship's-. A. Welin. (Reissue.) No. 12,980; June 22; Sp. p. 6286; Gaz. vol. 143; p. 1084.
- Boat-releasing apparatus. C. E. Stewart. No. 924,201; June 8; Sp. p. 2428; Gaz. vol. 143; p. 395.
- Boat-releasing device, Automatic. C. Hunt. No. 936,632; Oct. 12; Sp. p. 2187; Gaz. vol. 147; p. 361.
- Boat, Roller-. R. E. Sharp. No. 919,782; Apr. 27; Sp. p. 6034; Gaz. vol. 141; p. 1037.
- Boat-rowing machine. C. H. Clifton. No. 921,951; May 18; Sp. p. 3837; Gaz. vol. 142; p. 972.
- Boat-salvage device. G. Salles. No. 922,519; May 25; Sp. p. 4981; Gaz. vol. 142; p. 886.
- Boat, Sheet-metal. G. H. Hyde. No. 926,252; June 29; Sp. p. 6643; Gaz. vol. 143; p. 1172.
- Boat steering device, Power-. F. A. Warren, Jr. No. 912,215; Feb. 9; Sp. p. 2410; Gaz. vol. 139; p. 416.
- Boat, Stone-. B. B. Rawson. No. 916,594; Mar. 30; Sp. p. 5980; Gaz. vol. 140; p. 1073.
- Boat, Submarine. L. Y. Spear. No. 922,056; May 18; Sp. p. 4044; Gaz. vol. 142; p. 707.
- Boat, Submarine. R. D'Equeville-Montjustin. No. 943,604; Dec. 14; Sp. p. 3350; Gaz. vol. 149; p. 565.
- Boat, Submarine. R. D'Equeville-Montjustin. No. 943,605; Dec. 14; Sp. p. 3352; Gaz. vol. 149; p. 566.
- Boat, Submarine or submersible. S. Lake and E. L. Peacock. No. 926,007; June 22; Sp. p. 6096; Gaz. vol. 143; p. 1055.
- Boat, Submarine or submersible. C. Laurenti. No. 922,298; May 18; Sp. p. 4523; Gaz. vol. 142; p. 785.
- Boats, Driving-gear for submarine. F. M. Leavitt. No. 933,083; Sept. 7; Sp. p. 93; Gaz. vol. 146; p. 16.
- Boats, Electrical-current connection for. E. Weström. No. 920,229; May 4; Sp. p. 277; Gaz. vol. 142; p. 45.
- Boats, Entrance-shaft for submarine. R. d'Equeville-Montjustin. No. 932,379; Aug. 24; Sp. p. 5797; Gaz. vol. 145; p. 991.
- Boats, Exhaust for motor-. J. W. Walters. No. 929,057; July 27; Sp. p. 4878; Gaz. vol. 144; p. 870.
- Boats, Means for automatically releasing ships-. R. Archibald. No. 926,453; June 29; Sp. p. 7021; Gaz. vol. 143; p. 1237.
- Boats, Outside shaft-bearing and stuffing-box for. G. S. Spencer. No. 917,676; Apr. 6; Sp. p. 1382; Gaz. vol. 141; p. 244.
- Boats, Ship's-screw-driving mechanism for submarine. W. Maier. No. 943,434; Dec. 14; Sp. p. 3000; Gaz. vol. 149; p. 506.
- Bobbin. W. W. Burke. No. 909,986; Jan. 19; Sp. p. 3139; Gaz. vol. 138; p. 580.
- Bobbin. W. M. Hastings. No. 912,564; Feb. 16; Sp. p. 3196; Gaz. vol. 139; p. 573.
- Bobbin. J. R. Coe. No. 914,793; Mar. 9; Sp. p. 2397; Gaz. vol. 140; p. 402.
- Bobbin-case. L. E. Weaver. No. 939,647; Nov. 9; Sp. p. 2654; Gaz. vol. 148; p. 439.
- Bobbin-clutching means for rotatable spindles. G. W. Knight. No. 923,126; May 25; Sp. p. 6263; Gaz. vol. 142; p. 1083.
- Bobbin-holder. T. J. Murdock. No. 914,742; Mar. 9; Sp. p. 2301; Gaz. vol. 140; p. 385.
- Bobbin-holder. C. E. Lovejoy. No. 919,899; Apr. 27; Sp. p. 6301; Gaz. vol. 141; p. 1076.
- Bobbin-holder. C. H. Curfew and C. H. Carpenter. No. 924,891; June 15; Sp. p. 3865; Gaz. vol. 143; p. 659.
- Bobbin-holder. T. F. Roney. No. 937,468; Oct. 19; Sp. p. 3924; Gaz. vol. 147; p. 667.
- Bobbin-holder. S. W. Wardwell. No. 941,595; Nov. 30; Sp. p. 6922; Gaz. vol. 148; p. 1172.
- Bobbin marking and coating machine. F. C. Hodgman. No. 920,870; May 4; Sp. p. 1592; Gaz. vol. 142; p. 254.
- Bobbin-spindle. C. Jenkins. No. 936,904; Oct. 12; Sp. p. 2714; Gaz. vol. 147; p. 452.
- Bobbin-winding machine. J. C. Liberty. No. 918,454; Apr. 13; Sp. p. 3021; Gaz. vol. 141; p. 531.
- Bobbin-winding machine. J. Schärer-Nussbaumer. No. 919,475; Apr. 27; Sp. p. 5421; Gaz. vol. 141; p. 933.
- Bobbins to spindles, Means for attaching. G. H. Ford and E. A. Cunniff. No. 925,689; June 22; Sp. p. 5425; Gaz. vol. 143; p. 949.
- Bodkin. E. Case. No. 935,638; Oct. 5; Sp. p. 22; Gaz. vol. 147; p. 5.
- Body-brace and suspenders, Combined. C. Klopf. No. 919,885; Apr. 27; Sp. p. 6277; Gaz. vol. 141; p. 1071.
- Body-protector. C. W. Fraser. No. 936,442; Oct. 12; Sp. p. 1739; Gaz. vol. 147; p. 297.
- Bogie with one or several axles. C. de Bange. No. 913,872; Mar. 2; Sp. p. 432; Gaz. vol. 140; p. 70.
- Boiler: See Domestic boiler; Downdraft-boiler; Egg-boiler; Electric boiler; Fruit-boiler; Horizontal boiler; Hot-water boiler; Hot-water and steam boiler; Locomotive-boiler; Sectional boiler; Steam-boiler; Steam and hot-water boiler; Superheater-boiler; Vertical boiler; Washboiler; Water-tube boiler.
- Boiler. H. O. Kefenstein. No. 908,574; Jan. 5; Sp. p. 293; Gaz. vol. 138; p. 50.
- Boiler. J. Kindervater. No. 910,135; Jan. 19; Sp. p. 3423; Gaz. vol. 138; p. 627.
- Boiler. J. W. H. Handley and J. McCartney. No. 910,531; Jan. 26; Sp. p. 4299; Gaz. vol. 138; p. 789.
- Boiler. F. S. Bean. No. 911,023; Feb. 2; Sp. p. 3; Gaz. vol. 139; p. 3.
- Boiler. F. S. Snyder. No. 911,685; Feb. 9; Sp. p. 1321; Gaz. vol. 139; p. 246.
- Boiler. W. A. Berry. No. 913,681; Mar. 2; Sp. p. 6; Gaz. vol. 140; p. 4.
- Boiler. G. de Grah. No. 915,427; Mar. 16; Sp. p. 3649; Gaz. vol. 140; p. 635.
- Boiler. W. A. Henry. No. 920,057; Apr. 27; Sp. p. 6632; Gaz. vol. 141; p. 1128.
- Boiler. M. Kelly. No. 920,153; May 4; Sp. p. 119; Gaz. vol. 142; p. 19.
- Boiler. H. O. Kefenstein. No. 920,479; May 4; Sp. p. 776; Gaz. vol. 142; p. 126.
- Boiler. W. A. Berry. No. 930,341; Aug. 10; Sp. p. 1450; Gaz. vol. 145; p. 265.
- Boiler. C. Wegener. No. 931,907; Aug. 24; Sp. p. 4865; Gaz. vol. 145; p. 834.
- Boiler. C. E. Chapman. No. 932,445; Aug. 31; Sp. p. 5940; Gaz. vol. 145; p. 1035.
- Boiler. V. E. Carter. No. 934,426; Sept. 21; Sp. p. 2943; Gaz. vol. 146; p. 513.
- Boiler. W. A. Nisun. No. 936,023; Oct. 5; Sp. p. 896; Gaz. vol. 147; p. 135.
- Boiler. H. E. Bailey and J. E. McFarren. No. 937,572; Oct. 19; Sp. p. 4128; Gaz. vol. 147; p. 702.
- Boiler. D. Hanlon. No. 940,684; Nov. 23; Sp. p. 4972; Gaz. vol. 148; p. 849.
- Boiler-alarm. E. Parish. No. 929,478; July 27; Sp. p. 5750; Gaz. vol. 144; p. 1009.
- Boiler-alarm. F. C. McAdam. No. 937,948; Oct. 26; Sp. p. 4895; Gaz. vol. 147; p. 845.
- Boiler and furnace, Combined. W. J. Ellis. No. 914,647; Mar. 9; Sp. p. 2071; Gaz. vol. 140; p. 353.
- Boiler appliance, Steam-. E. A. Ray. No. 919,462; Apr. 27; Sp. p. 5379; Gaz. vol. 141; p. 928.
- Boiler-arches, Rib for. J. W. Ashenden. No. 931,834; Aug. 24; Sp. p. 4675; Gaz. vol. 145; p. 810.
- Boiler automatic feed device, Steam-. B. Simonides. No. 910,872; Jan. 26; Sp. p. 4988; Gaz. vol. 138; p. 900.
- Boiler baffle, Water-tube-. L. Woerner. No. 911,281; Feb. 2; Sp. p. 514; Gaz. vol. 139; p. 88.
- Boiler-bracket. W. Withem. No. 939,368; Nov. 9; Sp. p. 2038; Gaz. vol. 148; p. 344.
- Boiler-check, Double-valve. F. Schafer and H. C. Hills. No. 936,571; Oct. 12; Sp. p. 2052; Gaz. vol. 147; p. 331.
- Boiler-check-valve clean-out. J. R. Martin. No. 913,023; Feb. 23; Sp. p. 4128; Gaz. vol. 139; p. 749.
- Boiler-cleaner. A. H. Dreijer and F. Haight. No. 910,183; Jan. 19; Sp. p. 3536; Gaz. vol. 138; p. 644.
- Boiler-cleaner. H. C. Fabri. No. 910,804; Jan. 26; Sp. p. 4865; Gaz. vol. 138; p. 879.
- Boiler-cleaner. P. Voorhees. No. 917,203; Apr. 6; Sp. p. 494; Gaz. vol. 141; p. 86.
- Boiler-cleaner. D. Mahoney. No. 918,178; Apr. 13; Sp. p. 2462; Gaz. vol. 141; p. 441.
- Boiler-cleaner. F. X. Bayer. No. 919,680; Apr. 27; Sp. p. 5844; Gaz. vol. 141; p. 1003.
- Boiler-cleaner. J. H. Clipperton. No. 930,647; Aug. 10; Sp. p. 2109; Gaz. vol. 145; p. 368.
- Boiler-cleaner and feed-water heater. A. N. Jones. No. 934,314; Sept. 14; Sp. p. 2719; Gaz. vol. 146; p. 452.
- Boiler-cleaning apparatus. O. Donatz. No. 944,719; Dec. 28; Sp. p. 5797; Gaz. vol. 149; p. 1002.
- Boiler-cleaning device. A. Thomas and E. Thompson. No. 917,380; Apr. 6; Sp. p. 856; Gaz. vol. 141; p. 147.
- Boiler-cleaning device. A. Thomas and E. Thompson. No. 942,982; Dec. 14; Sp. p. 2042; Gaz. vol. 149; p. 353.
- Boiler compound. H. R. Young. No. 913,606; Feb. 23; Sp. p. 5342; Gaz. vol. 139; p. 945.
- Boiler-compound mixer and feeder. T. E. Palmer and W. W. Baker. No. 939,540; Nov. 9; Sp. p. 2413; Gaz. vol. 148; p. 400.
- Boiler feed-water, Apparatus for treating. M. Miller. No. 909,008; Jan. 5; Sp. p. 1184; Gaz. vol. 138; p. 189.
- Boiler-feeder. J. F. Senter. No. 911,768; Feb. 9; Sp. p. 1467; Gaz. vol. 139; p. 273.
- Boiler-feeder. E. Sturgeon. No. 912,756; Feb. 16; Sp. p. 3634; Gaz. vol. 139; p. 640.
- Boiler-feeding apparatus. N. E. Nash. No. 909,013; Jan. 5; Sp. p. 1192; Gaz. vol. 138; p. 190.
- Boiler-flue. J. M. Crozier. No. 927,329; July 6; Sp. p. 1267; Gaz. vol. 144; p. 209.
- Boiler-flue cleaner. J. C. Ross. No. 911,333; Feb. 2; Sp. p. 608; Gaz. vol. 139; p. 104.
- Boiler-flue cleaner. S. H. Limbert. No. 913,963; Mar. 2; Sp. p. 642; Gaz. vol. 140; p. 101.
- Boiler-flue cleaner. R. J. Flynn. No. 914,940; Mar. 9; Sp. p. 2670; Gaz. vol. 140; p. 448.
- Boiler-flue cleaner. R. W. Hamann. No. 915,347; Mar. 16; Sp. p. 3484; Gaz. vol. 140; p. 608.
- Boiler-flue cleaner. A. Grönvald. No. 924,611; June 8; Sp. p. 3263; Gaz. vol. 143; p. 531.
- Boiler-flue cleaner. W. J. Bradley. No. 926,722; July 6; Sp. p. 4; Gaz. vol. 144; p. 3.
- Boiler-flue cleaner. B. A. Beland and J. P. Downs. No. 929,377; July 27; Sp. p. 5579; Gaz. vol. 144; p. 978.
- Boiler-flue cleaner. E. S. Ratcliffe. No. 929,489; July 27; Sp. p. 5762; Gaz. vol. 144; p. 1011.
- Boiler-flue cleaner. J. Wiechmann. No. 932,209; Aug. 24; Sp. p. 5486; Gaz. vol. 145; p. 934.
- Boiler-flue cleaner. W. B. Clowers. No. 935,141; Sept. 28; Sp. p. 4368; Gaz. vol. 146; p. 779.

*Alphabetical list of inventions—Continued.*

- Boiler-flue connection. D. B. Hines. No. 920,743; May 4; Sp. p. 1318; Gaz. vol. 142; p. 213.  
 Boiler-flue expander. D. A. Lucas, G. D. De Long, and A. N. Lucas. No. 943,117; Dec. 14; Sp. p. 2355; Gaz. vol. 149; p. 399.  
 Boiler-furnace. P. H. McGiehan. No. 908,879; Jan. 5; Sp. p. 925; Gaz. vol. 138; p. 147.  
 Boiler-furnace. J. C. Parker. No. 914,749; Mar. 9; Sp. p. 2317; Gaz. vol. 140; p. 388.  
 Boiler-furnace. J. M. Ericson. No. 916,542; Mar. 30; Sp. p. 5882; Gaz. vol. 140; p. 1055.  
 Boiler-furnace. E. H. Montgomery. No. 936,651; Oct. 12; Sp. p. 2223; Gaz. vol. 147; p. 368.  
 Boiler-furnace, Locomotive. F. F. Gaines. No. 934,157; Sept. 14; Sp. p. 2431; Gaz. vol. 146; p. 399.  
 Boiler-furnace, Locomotive. F. F. Gaines. No. 943,823; Dec. 21; Sp. p. 3849; Gaz. vol. 149; p. 670.  
 Boiler-furnace, Sectional. C. Phelps. No. 913,844; Mar. 2; Sp. p. 346; Gaz. vol. 140; p. 59.  
 Boiler-furnace, Steam. G. A. Bu Miller. No. 911,473; Feb. 2; Sp. p. 850; Gaz. vol. 139; p. 150.  
 Boiler-furnace, Steam. O. D. Orvis. No. 927,672; July 13; Sp. p. 2023; Gaz. vol. 144; p. 352.  
 Boiler-furnace, Steam. W. G. Munson. No. 931,952; Aug. 24; Sp. p. 4948; Gaz. vol. 145; p. 849.  
 Boiler-furnace, Steam. D. L. Brownfield. No. 932,440; Aug. 31; Sp. p. 5931; Gaz. vol. 145; p. 1034.  
 Boiler-furnace, Steam. H. and G. S. Gallagher. No. 937,433; Oct. 19; Sp. p. 3842; Gaz. vol. 147; p. 654.  
 Boiler-furnace, Steam. F. Wagner. No. 937,898; Oct. 26; Sp. p. 4790; Gaz. vol. 147; p. 828.  
 Boiler-furnace, Steam. F. A. Shoemaker. No. 938,022; Oct. 26; Sp. p. 5054; Gaz. vol. 147; p. 869.  
 Boiler-gage-glass, Steam. O. Ottesen. No. 925,784; June 22; Sp. p. 5656; Gaz. vol. 143; p. 981.  
 Boiler-hanger. C. E. Lingenfelter. No. 933,909; Sept. 14; Sp. p. 1938; Gaz. vol. 146; p. 319.  
 Boiler installation. E. N. J. Germeau and A. N. G. Bouton. No. 913,638; Feb. 23; Sp. p. 5436; Gaz. vol. 139; p. 957.  
 Boiler low-water alarm, Steam. C. Brent. No. 928,933; July 27; Sp. p. 4620; Gaz. vol. 144; p. 829.  
 Boiler low-water signal. J. L. Setzer. No. 940,202; Nov. 16; Sp. p. 3902; Gaz. vol. 148; p. 662.  
 Boiler-lug. M. M. Hedges. No. 909,592; Jan. 12; Sp. p. 2338; Gaz. vol. 138; p. 415.  
 Boiler-plug. C. L. McVoy. No. 944,205; Dec. 21; Sp. p. 4653; Gaz. vol. 149; p. 797.  
 Boiler-plug, Collapsible. W. D. Shonefelt and R. Vaughan. No. 927,688; July 13; Sp. p. 2055; Gaz. vol. 144; p. 357.  
 Boiler-scale, Preventing the formation of. T. Brázda. No. 925,283; June 15; Sp. p. 4621; Gaz. vol. 143; p. 789.  
 Boiler-scale removers, Container for. G. O. Leonard. No. 942,836; Dec. 7; Sp. p. 1659; Gaz. vol. 149; p. 271.  
 Boiler-scale-removing apparatus. A. Schrör. No. 909,235; Jan. 12; Sp. p. 1649; Gaz. vol. 138; p. 297.  
 Boiler-setting. D. F. Kilgour. No. 909,805; Jan. 12; Sp. p. 2760; Gaz. vol. 138; p. 486.  
 Boiler-setting. J. H. Simpkins. No. 925,519; June 22; Sp. p. 5080; Gaz. vol. 143; p. 894.  
 Boiler-sheets, Means for connecting flues to. S. W. Howell. No. 911,397; Feb. 2; Sp. p. 730; Gaz. vol. 139; p. 126.  
 Boiler-stand. G. O. Miller. No. 910,938; Jan. 26; Sp. p. 5108; Gaz. vol. 138; p. 921.  
 Boiler-stand. S. S. Stahl. No. 925,849; June 22; Sp. p. 5798; Gaz. vol. 143; p. 1004.  
 Boiler-stand. P. F. Murphy. No. 927,746; July 13; Sp. p. 2163; Gaz. vol. 144; p. 375.  
 Boiler stand, Range. C. H. Foster. No. 909,777; Jan. 12; Sp. p. 2701; Gaz. vol. 138; p. 477.  
 Boiler stand, Range. C. R. Schmidt. No. 933,119; Sept. 7; Sp. p. 169; Gaz. vol. 146; p. 29.  
 Boiler stay-bolt. B. E. D. Stafford. No. 909,956; Jan. 19; Sp. p. 3086; Gaz. vol. 138; p. 570.  
 Boiler stay-bolt. J. Deneal. No. 910,361; Jan. 19; Sp. p. 3942; Gaz. vol. 138; p. 709.  
 Boiler stay-bolt, Steam. F. M. Patterson. No. 918,193; Apr. 13; Sp. p. 2493; Gaz. vol. 141; p. 446.  
 Boiler superheater, Locomotive. L. E. Feightner. No. 939,237; Nov. 9; Sp. p. 1712; Gaz. vol. 148; p. 297.  
 Boiler superheater, Steam. C. J. Mellin and F. J. Cole. No. 918,881; Apr. 20; Sp. p. 4001; Gaz. vol. 141; p. 703.  
 Boiler superheater, Steam. F. J. Cole. No. 936,412; Oct. 12; Sp. p. 1700; Gaz. vol. 147; p. 287.  
 Boiler-tube cleaner. E. Mettler. No. 914,592; Mar. 9; Sp. p. 1970; Gaz. vol. 140; p. 336.  
 Boiler-tube cleaner. W. E. Frazee. No. 915,584; Mar. 16; Sp. p. 3978; Gaz. vol. 140; p. 687.  
 Boiler-tube cleaner. S. M. Cockburn. No. 928,361; July 20; Sp. p. 3473; Gaz. vol. 144; p. 613.  
 Boiler-tube cleaner. J. Zilliox. No. 931,245; Aug. 17; Sp. p. 3431; Gaz. vol. 145; p. 595.  
 Boiler-tube cleaner. J. Zilliox. No. 933,519; Sept. 7; Sp. p. 1156; Gaz. vol. 146; p. 167.  
 Boiler-tube cleaner. J. D. Thompson. No. 938,289; Oct. 26; Sp. p. 5625; Gaz. vol. 147; p. 961.  
 Boiler-tube cleaner. W. S. Elliott. No. 942,778; Dec. 7; Sp. p. 1543; Gaz. vol. 149; p. 253.  
 Boiler-tube cleaner. J. V. Symons. No. 942,798; Dec. 7; Sp. p. 1575; Gaz. vol. 149; p. 259.  
 Boiler-tube-cleaner nozzle. R. W. Hamann. No. 908,565; Jan. 5; Sp. p. 279; Gaz. vol. 138; p. 47.  
 Boiler-tube expander. J. C. Tassey. No. 943,579; Dec. 14; Sp. p. 3299; Gaz. vol. 149; p. 556.  
 Boiler-tube extractor. W. T. Adams. No. 918,411; Apr. 13; Sp. p. 2933; Gaz. vol. 141; p. 517.  
 Boiler-tubes, Machine for removing scale from. J. A. Silver. No. 919,785; Apr. 27; Sp. p. 6039; Gaz. vol. 141; p. 1038.  
 Boiler water-circulator. C. C. Eckliff. No. 939,991; Nov. 16; Sp. p. 3403; Gaz. vol. 148; p. 586.  
 Boiler water-gage, Steam. D. Dahlstedt. No. 933,236; Sept. 7; Sp. p. 471; Gaz. vol. 146; p. 73.  
 Boilers, Air-feeding appliance for oil-burning steam-. T. W. Heintzelman and J. G. Camp. No. 910,285; Jan. 19; Sp. p. 3793; Gaz. vol. 138; p. 683.  
 Boilers, Apparatus for producing circulation in steam-. V. Andrioli. No. 913,347; Feb. 23; Sp. p. 4789; Gaz. vol. 139; p. 858.  
 Boilers, Composition for preventing scale in. G. Wegener. No. 911,928; Feb. 9; Sp. p. 1757; Gaz. vol. 139; p. 3.5.  
 Boilers, Engine-setting for horizontal. G. W. Morris. No. 941,460; Nov. 30; Sp. p. 6055; Gaz. vol. 148; p. 1128.  
 Boilers, Forming openings for washout-plugs for. H. B. Ayers. No. 927,473; July 13; Sp. p. 1580; Gaz. vol. 144; p. 284.  
 Boilers, Interior arrangement for smoke-boxes of tubular. F. W. Born. No. 931,727; Aug. 24; Sp. p. 4457; Gaz. vol. 145; p. 776.  
 Boilers of the locomotive type, Superheater for. W. Schmidt. No. 922,200; May 18; Sp. p. 4336; Gaz. vol. 142; p. 754.  
 Boilers, &c., Protective covering for blow-off pipes of steam-. J. Beattie. No. 915,059; Mar. 16; Sp. p. 2873; Gaz. vol. 140; p. 487.  
 Boilers, System of washing and filling locomotive-. W. White. No. 933,937; Sept. 14; Sp. p. 1981; Gaz. vol. 146; p. 327.  
 Bolt-weepil-exterminating device. A. J. Mahanay. No. 910,933; Jan. 26; Sp. p. 5099; Gaz. vol. 138; p. 919.  
 Bolt-weepil exterminator. J. W. Evans. No. 931,401; Aug. 17; Sp. p. 3767; Gaz. vol. 145; p. 650.  
 Bolt-weepil trap. J. M. and P. J. Coco. No. 926,244; June 29; Sp. p. 6630; Gaz. vol. 143; p. 1170.  
 Bolster. F. H. Davol, Jr. No. 930,051; Aug. 3; Sp. p. 908; Gaz. vol. 145; p. 146.  
 Bolster. J. Heimlicher. No. 930,752; Aug. 10; Sp. p. 2321; Gaz. vol. 145; p. 403.  
 Bolster. H. F. Pope. No. 936,160; Oct. 5; Sp. p. 1175; Gaz. vol. 147; p. 178.  
 Bolster. J. H. Baker. No. 937,692; Oct. 19; Sp. p. 4344; Gaz. vol. 147; p. 740.  
 Bolster. C. A. Lindström. No. 943,979; Dec. 21; Sp. p. 4183; Gaz. vol. 149; p. 724.  
 Bolster. C. A. Lindström. No. 943,980; Dec. 21; Sp. p. 4184; Gaz. vol. 149; p. 724.  
 Bolster and draft-rigging, Combined. W. H. Scott. No. 910,151; Jan. 19; Sp. p. 3456; Gaz. vol. 138; p. 633.  
 Bolster, Separable cast. J. M. Ames. No. 923,926; July 27; Sp. p. 4606; Gaz. vol. 144; p. 826.  
 Bolsters and similar articles, Making. F. Ditchfield. No. 943,968; Dec. 21; Sp. p. 4157; Gaz. vol. 149; p. 720.  
 Bolt. See Adjustable bolt; Boiler stay-bolt; Car and other door bolt; Chain-bolt; Divided bolt; Door-bolt; Expansion-bolt; Extension-bolt; Headless and threadless bolt; Lock-bolt; Locking-bolt; Nut-locking expansion-bolt; Panic-bolt; Spring-bolt; Stay-bolt; Tire-bolt.  
 Bolt anchor, Expansion-. H. W. Pleister. No. 929,979; Aug. 3; Sp. p. 755; Gaz. vol. 145; p. 121.  
 Bolt-anchorage. F. R. W. Cleverdon and J. De Temple. No. 913,875; Mar. 2; Sp. p. 437; Gaz. vol. 140; p. 71.  
 Bolt and nut. C. G. Ette. No. 919,840; Apr. 27; Sp. p. 6190; Gaz. vol. 141; p. 1056.  
 Bolt and nut lock. B. C. James. No. 929,223; July 27; Sp. p. 5211; Gaz. vol. 144; p. 924.  
 Bolt and nut lock. C. Zinow. No. 930,450; Aug. 10; Sp. p. 1662; Gaz. vol. 145; p. 301.  
 Bolt and nut lock. S. L. Egenas and J. B. Chapman. No. 931,187; Aug. 17; Sp. p. 3299; Gaz. vol. 145; p. 574.  
 Bolt and nut lock. M. W. Smith. No. 944,288; Dec. 28; Sp. p. 4830; Gaz. vol. 149; p. 852.  
 Bolt-blank threading and turning machine. C. K. Lassiter. No. 913,520; Feb. 23; Sp. p. 5131; Gaz. vol. 139; p. 916.  
 Bolt-breaking machine, Stay-. H. L. Hahn. No. 917,052; Apr. 6; Sp. p. 187; Gaz. vol. 141; p. 35.  
 Bolt-case. R. W. Hubbard. No. 939,694; Nov. 9; Sp. p. 2755; Gaz. vol. 148; p. 455.  
 Bolt-clipper. H. K. Porter. No. 909,663; Jan. 12; Sp. p. 2480; Gaz. vol. 138; p. 440.  
 Bolt-clipper. J. A. Alley. No. 914,910; Mar. 9; Sp. p. 2624; Gaz. vol. 140; p. 440.  
 Bolt construction. C. M. Reeves and E. Fuller. No. 937,716; Oct. 19; Sp. p. 4408; Gaz. vol. 147; p. 749.  
 Bolt-cutter. T. A. Hall. No. 926,559; June 29; Sp. p. 7197; Gaz. vol. 143; p. 1273.  
 Bolt-extractor. G. D. Morrison. No. 913,226; Feb. 23; Sp. p. 4549; Gaz. vol. 139; p. 817.  
 Bolt-header. J. R. Blakeslee. No. 943,335; Dec. 14; Sp. p. 2799; Gaz. vol. 149; p. 472.  
 Bolt-holder. F. D. Pierce. No. 919,209; Apr. 20; Sp. p. 4633; Gaz. vol. 141; p. 808.  
 Bolt-lock, Panic. H. G. Voight. No. 917,685; Apr. 6; Sp. p. 1403; Gaz. vol. 141; p. 247.  
 Bolt-locking mechanism, Split-. W. W. Parsons. No. 920,386; May 4; Sp. p. 606; Gaz. vol. 142; p. 96.  
 Bolt-making machine. F. L. McCulloch. No. 921,558; May 11; Sp. p. 2997; Gaz. vol. 142; p. 515.  
 Bolt mechanism, Door-. M. Furman and W. T. Rowe. No. 932,383; Aug. 24; Sp. p. 5804; Gaz. vol. 145; p. 992.  
 Bolt-puller. E. Blomberg. No. 936,755; Oct. 12; Sp. p. 2418; Gaz. vol. 147; p. 403.  
 Bolt-retainer. H. Bauer. No. 937,039; Oct. 19; Sp. p. 2995; Gaz. vol. 147; p. 526.



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- Bolt-severing machine, Stay-. G. S. Lowe. No. 925,491; June 22; Sp. p. 5012; Gaz. vol. 143; p. 885.
- Bolts, screws, &c., Apparatus for turning. G. X. Wittmer. No. 918,632; Apr. 20; Sp. p. 3435; Gaz. vol. 141; p. 619.
- Bolting-machine. A. H. McCutchan. No. 908,486; Jan. 5; Sp. p. 104; Gaz. vol. 138; p. 20.
- Bolting-machine, Centrifugal. G. Cusson. No. 932,847; Aug. 31; Sp. p. 6807; Gaz. vol. 145; p. 1168.
- Bolting-machines, Nut-feeding attachment for. A. H. McCutchan. No. 944,374; Dec. 28; Sp. p. 5021; Gaz. vol. 149; p. 883.
- Bond-compressor. W. H. Finley. No. 923,504; June 1; Sp. p. 876; Gaz. vol. 143; p. 132.
- Bone and vegetable material, Machine for comminuting. J. Moore. No. 915,460; Mar. 16; Sp. p. 3718; Gaz. vol. 140; p. 645.
- Bone-black kiln. B. Eba. No. 940,520; Nov. 16; Sp. p. 4613; Gaz. vol. 148; p. 770.
- Bones of the leg, Apparatus for setting the fractured. W. Amos. No. 937,354; Oct. 19; Sp. p. 3651; Gaz. vol. 147; p. 628.
- Book. E. Davis. No. 914,704; Mar. 9; Sp. p. 2216; Gaz. vol. 140; p. 372.
- Book and filing case, Sectional. J. S. McComb. No. 919,619; Apr. 27; Sp. p. 5716; Gaz. vol. 141; p. 983.
- Book binder, Loose-leaf. A. S. Harn. No. 911,977; Feb. 9; Sp. p. 1949; Gaz. vol. 139; p. 342.
- Book binder, Loose-leaf. C. G. Van Buren. No. 931,816; Aug. 24; Sp. p. 4647; Gaz. vol. 145; p. 805.
- Book, Blank, C. R. Fargo. No. 943,595; Dec. 14; Sp. p. 3331; Gaz. vol. 149; p. 561.
- Book, Blank, scrap, and similar. E. F. Hoberg. No. 934,311; Sept. 14; Sp. p. 2715; Gaz. vol. 146; p. 451.
- Book, Car-record. A. J. Camp. No. 937,923; Oct. 26; Sp. p. 4845; Gaz. vol. 147; p. 837.
- Book, Check-. C. S. Sultzter. No. 938,908; Nov. 2; Sp. p. 1010; Gaz. vol. 148; p. 159.
- Book-clasp. A. Conley. No. 922,858; May 25; Sp. p. 5691; Gaz. vol. 142; p. 997.
- Book, Copy-. E. H. Roudbush. No. 919,642; Apr. 27; Sp. p. 5756; Gaz. vol. 141; p. 990.
- Book-cover protector. H. A. Ayvad. No. 912,775; Feb. 16; Sp. p. 3674; Gaz. vol. 139; p. 646.
- Book-covers, Making. C. L. Baldauf. No. 928,623; July 20; Sp. p. 3997; Gaz. vol. 144; p. 697.
- Book-covers, Making flexible. J. McKibbin. No. 921,873; May 18; Sp. p. 3677; Gaz. vol. 142; p. 648.
- Book, Cumulative. T. Scholes. No. 916,034; Mar. 23; Sp. p. 4875; Gaz. vol. 140; p. 863.
- Book, Cumulative. T. Scholes. No. 916,035; Mar. 23; Sp. p. 4876; Gaz. vol. 140; p. 863.
- Book, Cumulative. T. Scholes. No. 916,036; Mar. 23; Sp. p. 4878; Gaz. vol. 140; p. 864.
- Book, Duplicate sales-. E. K. Bottle. No. 935,774; Oct. 5; Sp. p. 338; Gaz. vol. 147; p. 52.
- Book, Folding check-. C. S. Sultzter. No. 938,909; Nov. 2; Sp. p. 1011; Gaz. vol. 148; p. 160.
- Book-forming mechanism. J. Bengough. No. 929,652; Aug. 3; Sp. p. 11; Gaz. vol. 145; p. 4.
- Book-guard. J. B. Boatright. No. 944,124; Dec. 21; Sp. p. 4503; Gaz. vol. 149; p. 773.
- Book-holder. M. Trimble. No. 916,901; Mar. 30; Sp. p. 6542; Gaz. vol. 140; p. 1167.
- Book-holder. E. S. Antisdale. No. 931,111; Aug. 17; Sp. p. 3133; Gaz. vol. 145; p. 548.
- Book-holder. A. F. Stone, Jr. No. 932,348; Aug. 24; Sp. p. 5746; Gaz. vol. 145; p. 981.
- Book holder, Duplicate-sales-. C. A. Rose. No. 915,482; Mar. 16; Sp. p. 3755; Gaz. vol. 140; p. 653.
- Book holder, Note-. C. L. Dahlberg. No. 934,888; Sept. 21; Sp. p. 3841; Gaz. vol. 146; p. 666.
- Book, Instruction-. J. D. Thompson. No. 909,477; Jan. 12; Sp. p. 2111; Gaz. vol. 138; p. 375.
- Book, Invoice or scrap. A. C. Hafely. No. 925,172; June 15; Sp. p. 4418; Gaz. vol. 143; p. 754.
- Book, Key-. M. C. Elliott. No. 908,456; Jan. 5; Sp. p. 46; Gaz. vol. 138; p. 10.
- Book-leaf. P. Hansen. No. 911,039; Feb. 2; Sp. p. 32; Gaz. vol. 139; p. 8.
- Book-leaves, Machine for crimping. J. Dahly. No. 910,790; Jan. 26; Sp. p. 4832; Gaz. vol. 138; p. 874.
- Book-leaves, Reinforcement for. F. H. Crump. No. 938,370; Oct. 26; Sp. p. 5824; Gaz. vol. 147; p. 988.
- Book-lock. S. H. Allison. No. 910,260; Jan. 19; Sp. p. 3731; Gaz. vol. 138; p. 674.
- Book, Loose-back. C. Chivers. No. 931,679; Aug. 17; Sp. p. 4307; Gaz. vol. 145; p. 736.
- Book, Loose-leaf. J. Griesinger. No. 911,125; Feb. 2; Sp. p. 195; Gaz. vol. 139; p. 37.
- Book, Loose-leaf. S. D. Page and J. C. Hedges. No. 931,796; Aug. 24; Sp. p. 4604; Gaz. vol. 145; p. 798.
- Book, Loose-leaf. T. C. Bruhn. No. 933,882; Sept. 14; Sp. p. 1874; Gaz. vol. 145; p. 309.
- Book, Loose-leaf. L. D. Hamacher. No. 936,448; Oct. 12; Sp. p. 1800; Gaz. vol. 147; p. 299.
- Book, Loose-leaf. L. E. Marsh. No. 941,084; Nov. 23; Sp. p. 5822; Gaz. vol. 148; p. 982.
- Book, Loose-leaf. W. H. Bayles. No. 944,653; Dec. 28; Sp. p. 5651; Gaz. vol. 149; p. 980.
- Book-making machine. G. A. Walstead and S. Moc. No. 909,130; Jan. 5; Sp. p. 1439; Gaz. vol. 138; p. 230.
- Book, Manifold-. H. P. Brown. No. 920,015; Apr. 27; Sp. p. 6521; Gaz. vol. 141; p. 1113.
- Book, Manifold order or sales. L. G. Whitney. No. 933,513; Sept. 7; Sp. p. 1143; Gaz. vol. 146; p. 164.
- Book, Manifolding-. J. Kitchen, Jr. No. 911,597; Feb. 9; Sp. p. 1122; Gaz. vol. 139; p. 217.
- Book, Manifolding-. P. Auscher and C. Dehainault. No. 932,365; Aug. 24; Sp. p. 5776; Gaz. vol. 145; p. 986.
- Book, Manifolding-. B. C. Maxwell. No. 939,149; Nov. 2; Sp. p. 1496; Gaz. vol. 148; p. 242.
- Book, Manifolding account-. E. J. Carter. No. 915,411; Mar. 16; Sp. p. 3616; Gaz. vol. 140; p. 630.
- Book, Manifolding copying-. C. G. C. Whyte and A. Rau. No. 942,023; Nov. 30; Sp. p. 7820; Gaz. vol. 148; p. 1318.
- Book-mark. J. W. Briggs. No. 921,356; May 11; Sp. p. 2604; Gaz. vol. 142; p. 448.
- Book-mark. A. Eberle. No. 922,110; May 18; Sp. p. 4147; Gaz. vol. 142; p. 725.
- Book mark and support. C. E. Flanders. No. 943,865; Dec. 21; Sp. p. 3937; Gaz. vol. 149; p. 684.
- Book-mark, line-guide, and pencil-holder, Combined. M. E. Smoot. No. 938,025; Oct. 26; Sp. p. 5060; Gaz. vol. 147; p. 870.
- Book-marker. E. R. Inman. No. 934,970; Sept. 21; Sp. p. 4010; Gaz. vol. 146; p. 697.
- Book or pad, Manifolding. B. C. Maxwell. No. 939,150; Nov. 2; Sp. p. 1498; Gaz. vol. 148; p. 243.
- Book or pad, Manifolding. B. C. Maxwell. No. 939,151; Nov. 2; Sp. p. 1500; Gaz. vol. 148; p. 243.
- Book, Pocket check-. C. S. Sultzter. No. 938,910; Nov. 2; Sp. p. 1013; Gaz. vol. 148; p. 160.
- Book-rest. D. Duff. No. 934,148; Sept. 14; Sp. p. 2417; Gaz. vol. 146; p. 396.
- Book-rest, Adjustable. L. Valentine. No. 916,066; Mar. 23; Sp. p. 4928; Gaz. vol. 140; p. 873.
- Book, Sales-. E. K. Bottle. No. 911,865; Feb. 9; Sp. p. 1636; Gaz. vol. 139; p. 304.
- Book-strap handle. H. Backstrom. No. 908,438; Jan. 5; Sp. p. 7; Gaz. vol. 138; p. 3.
- Book, such as ledger, order-book, &c., Loose-leaf. A. T. Warne. No. 915,812; Mar. 23; Sp. p. 4451; Gaz. vol. 140; p. 791.
- Book-support. J. N. Stone. No. 935,560; Sept. 28; Sp. p. 5217; Gaz. vol. 146; p. 915.
- Book-support, Adjustable. B. T. Phelps. No. 936,938; Oct. 12; Sp. p. 2767; Gaz. vol. 147; p. 463.
- Book, temporary binder, file, and the like, Loose-leaf. J. H. Hewitt. No. 944,554; Dec. 28; Sp. p. 5440; Gaz. vol. 149; p. 946.
- Book, Triplicate sales-. W. G. Wilson. No. 936,504; Oct. 12; Sp. p. 1919; Gaz. vol. 147; p. 317.
- Book, Triplicating-. H. P. Brown. No. 936,084; Oct. 5; Sp. p. 1025; Gaz. vol. 147; p. 155.
- Books, &c., Adjustable support for. C. E. Buck. No. 925,284; June 15; Sp. p. 4622; Gaz. vol. 143; p. 790.
- Books and other articles, Support for. G. J. Keene. No. 943,255; Dec. 14; Sp. p. 2631; Gaz. vol. 149; p. 445.
- Books, Binder-frame for loose-leaf. J. Schaub and J. N. Larsen. No. 921,467; May 11; Sp. p. 2823; Gaz. vol. 142; p. 485.
- Books, Folder for coupon-. C. T. Raschick. No. 934,755; Sept. 21; Sp. p. 3574; Gaz. vol. 146; p. 623.
- Books, magazines, pamphlets, &c., Machine for creasing covers for. J. Dahly. No. 910,791; Jan. 26; Sp. p. 4834; Gaz. vol. 138; p. 874.
- Bookbinder. F. G. Koltenberg. No. 913,737; Mar. 2; Sp. p. 126; Gaz. vol. 140; p. 22.
- Bookbinder. E. J. Nicholson. No. 928,878; July 20; Sp. p. 4501; Gaz. vol. 144; p. 784.
- Bookbinder. A. Spahn. No. 929,042; July 27; Sp. p. 4834; Gaz. vol. 144; p. 865.
- Bookbinding. D. Z. Howell. No. 928,518; July 20; Sp. p. 3776; Gaz. vol. 144; p. 663.
- Bookbinding, Cloth. M. Taprogge. No. 940,287; Nov. 16; Sp. p. 4076; Gaz. vol. 148; p. 691.
- Bookcase. W. W. Points. No. 927,379; July 6; Sp. p. 1354; Gaz. vol. 144; p. 225.
- Bookcase. L. Nelson. No. 941,168; Nov. 23; Sp. p. 6017; Gaz. vol. 148; p. 1011.
- Bookcase, Collapsible. J. H. Scott. No. 920,670; May 4; Sp. p. 1181; Gaz. vol. 142; p. 190.
- Bookcase door-guide, Sectional-. F. N. Weis and C. F. Hehle. No. 928,566; July 20; Sp. p. 3874; Gaz. vol. 144; p. 678.
- Bookcase, Sectional. J. M. Canse. No. 925,562; June 22; Sp. p. 5155; Gaz. vol. 143; p. 908.
- Boomerang. A. J. Bartlett. No. 925,445; June 22; Sp. p. 4937; Gaz. vol. 143; p. 872.
- Boot. G. Watkins. No. 941,116; Nov. 23; Sp. p. 5892; Gaz. vol. 148; p. 992.
- Boot and shoe. T. C. Young. No. 927,017; July 6; Sp. p. 649; Gaz. vol. 144; p. 106.
- Boot and shoe. R. J. Sawyer. No. 937,648; Oct. 19; Sp. p. 4262; Gaz. vol. 147; p. 727.
- Boot and shoe arch-prop. G. P. Kato, Sr. No. 916,715; Mar. 30; Sp. p. 6195; Gaz. vol. 140; p. 1110.
- Boot and shoe beading-tool. C. W. Roberts. No. 925,387; June 15; Sp. p. 4807; Gaz. vol. 143; p. 821.
- Boot and shoe cleaner. W. H. E. Predmore and J. Estell. No. 936,663; Oct. 12; Sp. p. 2244; Gaz. vol. 147; p. 372.
- Boot and shoe elastic heel. C. M. Jagers. No. 917,075; Apr. 6; Sp. p. 226; Gaz. vol. 141; p. 42.
- Boot and shoe exhibiting device. E. Langenohl. No. 914,431; Mar. 9; Sp. p. 1653; Gaz. vol. 140; p. 282.
- Boot and shoe fly holder. J. J. Smith. No. 930,426; Aug. 10; Sp. p. 1620; Gaz. vol. 145; p. 293.
- Boot and shoe forms, Holder for. T. F. McGann. No. 941,723; Nov. 30; Sp. p. 7208; Gaz. vol. 148; p. 1215.
- Boot and shoe hanger. C. B. Robuck. No. 930,887; Aug. 10; Sp. p. 2614; Gaz. vol. 145; p. 447.

*Alphabetical list of inventions—Continued.*

- Boot and shoe heel. H. R. Manz. No. 912,586; Feb. 16; Sp. p. 3234; Gaz. vol. 139; p. 580.  
 Boot and shoe insole. G. W. Belonga. No. 909,138; Jan. 12; Sp. p. 1467; Gaz. vol. 138; p. 267.  
 Boot and shoe internal cushion. J. Ramsay. No. 914,674; Mar. 9; Sp. p. 2157; Gaz. vol. 140; p. 362.  
 Boot and shoe machinery jack. W. C. Evans and E. H. Taylor. No. 936,242; Oct. 5; Sp. p. 1318; Gaz. vol. 147; p. 202.  
 Boot and shoe polishing machine. H. C. Lowenstein. No. 939,725; Nov. 9; Sp. p. 2812; Gaz. vol. 148; p. 465.  
 Boot and shoe separable fastener. J. Jepperson. No. 940,462; Nov. 16; Sp. p. 4487; Gaz. vol. 148; p. 750.  
 Boot and shoe slugging machine. P. R. Glass. No. 935,492; Sept. 28; Sp. p. 5043; Gaz. vol. 146; p. 891.  
 Boot and shoe straps, Machine for covering. L. A. Gale. No. 931,748; Aug. 24; Sp. p. 4496; Gaz. vol. 145; p. 783.  
 Boot and shoe tree and stretcher. W. H. Hooper. No. 944,365; Dec. 28; Sp. p. 5000; Gaz. vol. 149; p. 880.  
 Boot and shoe upper and box-toe therefor. H. C. Jenney. No. 914,724; Mar. 9; Sp. p. 2254; Gaz. vol. 140; p. 378.  
 Boot and shoe uppers, Welting and lasting. T. F. Littleton. No. 925,208; June 15; Sp. p. 4489; Gaz. vol. 143; p. 767.  
 Boot-cleaner. J. P. Orfe. No. 909,930; Jan. 19; Sp. p. 3029; Gaz. vol. 138; p. 561.  
 Boot-cleaner. E. G. Killerbrue. No. 926,749; July 6; Sp. p. 90; Gaz. vol. 144; p. 14.  
 Boot or shoe. C. L. Blaisdell. No. 911,025; Feb. 2; Sp. p. 5; Gaz. vol. 139; p. 4.  
 Boot or shoe. J. H. Waite. No. 918,615; Apr. 20; Sp. p. 3383; Gaz. vol. 141; p. 612.  
 Boot or shoe. J. Farrell. No. 921,602; May 11; Sp. p. 3096; Gaz. vol. 142; p. 529.  
 Boot or shoe. C. Pease. No. 933,848; Sept. 14; Sp. p. 1812; Gaz. vol. 146; p. 299.  
 Boot or shoe form. J. S. Hansen. No. 914,409; Mar. 9; Sp. p. 1612; Gaz. vol. 140; p. 274.  
 Boot or shoe heel-cushion. A. A. Meyer. No. 916,350; Mar. 23; Sp. p. 5445; Gaz. vol. 140; p. 967.  
 Boot or shoe upper. A. E. Whitelaw. No. 937,493; Oct. 19; Sp. p. 3975; Gaz. vol. 147; p. 675.  
 Boot or shoe upper. D. Sack. No. 939,639; Nov. 9; Sp. p. 2640; Gaz. vol. 148; p. 436.  
 Boot-tree, Expandible. A. G. Malmberg. No. 934,556; Sept. 21; Sp. p. 3186; Gaz. vol. 146; p. 556.  
 Boot-tree, Expansion. C. Wiener. No. 924,023; June 8; Sp. p. 2027; Gaz. vol. 143; p. 336.  
 Boots and shoes, Elastic tread for. P. W. Pratt. No. 936,810; Oct. 12; Sp. p. 2524; Gaz. vol. 147; p. 421.  
 Boots and shoes, Eyelet for. J. F. Chalk. No. 926,317; June 29; Sp. p. 6759; Gaz. vol. 143; p. 1192.  
 Boots and shoes, Holder for the eyeleted edges of. C. N. Leonard. No. 930,485; Aug. 10; Sp. p. 1729; Gaz. vol. 145; p. 312.  
 Boots and shoes, Machine for finishing the heels of. S. M. Evans and E. H. Taylor. No. 916,924; Mar. 30; Sp. p. 6597; Gaz. vol. 140; p. 1176.  
 Boots and shoes, Machine for use in the manufacture of. E. Bayard. No. 918,486; Apr. 13; Sp. p. 3090; Gaz. vol. 141; p. 542.  
 Boots and shoes, Making vamps for. A. G. Legg. No. 920,070; Apr. 27; Sp. p. 6651; Gaz. vol. 141; p. 1132.  
 Boots and shoes, Toe-box for use in the manufacture of. J. H. Brown. No. 910,781; Jan. 26; Sp. p. 4815; Gaz. vol. 138; p. 871.  
 Boots and socks, Excluder for felt and knitted. F. W. Savage. No. 942,672; Dec. 7; Sp. p. 1326; Gaz. vol. 149; p. 218.  
 Boots and trousers, Combined. D. A. Leffingwell. No. 924,249; June 8; Sp. p. 2529; Gaz. vol. 143; p. 411.  
 Boots, shoes, gaiters, &c., Machine for attaching buttons, buckles, and like ornaments to. T. H. and W. H. Stringer. No. 921,306; May 11; Sp. p. 2481; Gaz. vol. 142; p. 431.  
 Booths or the like, Parcel, cash, and wind protecting attachment for. J. C. Moore. No. 936,551; Oct. 12; Sp. p. 2013; Gaz. vol. 147; p. 332.  
 Borax, Making. G. E. Bailey. No. 911,695; Feb. 9; Sp. p. 1341; Gaz. vol. 139; p. 250.  
 Boring apparatus, Deep-. W. Schott. No. 909,234; Jan. 12; Sp. p. 1648; Gaz. vol. 138; p. 296.  
 Boring appliance. A. J. Signor. No. 914,759; Mar. 9; Sp. p. 2333; Gaz. vol. 140; p. 391.  
 Boring-bar. D. H. Shattuck. No. 922,346; May 18; Sp. p. 4605; Gaz. vol. 142; p. 800.  
 Boring-bar. J. J. Steinbrunn. No. 936,955; Oct. 12; Sp. p. 2816; Gaz. vol. 147; p. 469.  
 Boring-bar. A. F. Liden. No. 943,088; Dec. 14; Sp. p. 2297; Gaz. vol. 149; p. 389.  
 Boring-bars, Expansion cutter-head for. C. M. Buck. No. 922,252; May 18; Sp. p. 4443; Gaz. vol. 142; p. 771.  
 Boring-bit, Expandible. L. W. Garner. No. 931,593; Aug. 17; Sp. p. 4116; Gaz. vol. 145; p. 708.  
 Boring, drilling, and tapping machine. T. M. Boggs. No. 920,011; Apr. 27; Sp. p. 6515; Gaz. vol. 141; p. 1112.  
 Boring-machine. M. L. Andrew. No. 911,639; Feb. 9; Sp. p. 1222; Gaz. vol. 139; p. 231.  
 Boring-machine. R. Winkler. No. 922,371; May 18; Sp. p. 4664; Gaz. vol. 142; p. 809.  
 Boring-machine. J. Kindelberger and G. Garretson. No. 924,473; June 8; Sp. p. 2961; Gaz. vol. 143; p. 485.  
 Boring-machine. W. T. Sears. No. 933,124; Sept. 7; Sp. p. 182; Gaz. vol. 146; p. 30.  
 Boring-machine. G. D. Wiggins. No. 942,389; Dec. 7; Sp. p. 741; Gaz. vol. 149; p. 121.  
 Boring-machine and cutter therefor. J. C. Marriott. No. 915,301; Mar. 16; Sp. p. 3402; Gaz. vol. 140; p. 594.  
 Boring-machine feed mechanism. A. Frey. No. 936,110; Oct. 5; Sp. p. 1073; Gaz. vol. 147; p. 164.  
 Boring machine, Log-. G. H. Lambert. No. 936,330; Oct. 12; Sp. p. 1502; Gaz. vol. 147; p. 259.  
 Boring-spindles, Outboard-bearing for. C. I. Shirley. No. 936,576; Oct. 12; Sp. p. 2059; Gaz. vol. 147; p. 341.  
 Boring-tool. F. Thomas. No. 930,436; Aug. 10; Sp. p. 1640; Gaz. vol. 145; p. 297.  
 Boring-tool, Automatic. J. A. Leland and W. G. Stebbins. No. 942,572; Dec. 7; Sp. p. 1133; Gaz. vol. 149; p. 184.  
 Boring-tool holder. B. F. Ennis and J. N. Scism. No. 932,378; Aug. 24; Sp. p. 5796; Gaz. vol. 145; p. 990.  
 Boring, turning, and facing machine. E. B. Sellow. No. 913,312; Feb. 23; Sp. p. 4723; Gaz. vol. 139; p. 846.  
 Bottle. F. C. Turner. No. 908,822; Jan. 5; Sp. p. 816; Gaz. vol. 138; p. 127.  
 Bottle. R. L. Sanders. No. 917,665; Apr. 6; Sp. p. 1361; Gaz. vol. 141; p. 240.  
 Bottle. E. C. Royer. No. 919,468; Apr. 27; Sp. p. 5408; Gaz. vol. 141; p. 931.  
 Bottle. R. L. Williams. No. 919,987; Apr. 27; Sp. p. 6461; Gaz. vol. 141; p. 1104.  
 Bottle. C. O. Smith. No. 924,848; June 15; Sp. p. 3766; Gaz. vol. 143; p. 644.  
 Bottle. E. F. Berg. No. 930,133; Aug. 3; Sp. p. 1078; Gaz. vol. 145; p. 174.  
 Bottle. T. J. Dunn. No. 930,651; Aug. 10; Sp. p. 2120; Gaz. vol. 145; p. 369.  
 Bottle. L. V. Phillips. No. 931,216; Aug. 17; Sp. p. 3366; Gaz. vol. 145; p. 585.  
 Bottle. G. E. Smith and C. Hamell. No. 932,506; Aug. 31; Sp. p. 6089; Gaz. vol. 145; p. 1056.  
 Bottle. E. Burns. No. 932,956; Aug. 31; Sp. p. 7008; Gaz. vol. 145; p. 1204.  
 Bottle. S. Rolfsen-Schmidt. No. 934,358; Sept. 14; Sp. p. 2798; Gaz. vol. 146; p. 466.  
 Bottle. S. Rolfsen-Schmidt. No. 934,359; Sept. 14; Sp. p. 2800; Gaz. vol. 146; p. 466.  
 Bottle. J. F. Fairchild. No. 935,478; Sept. 28; Sp. p. 5018; Gaz. vol. 146; p. 887.  
 Bottle. O. Papp. No. 940,049; Nov. 16; Sp. p. 3548; Gaz. vol. 148; p. 607.  
 Bottle. E. T. Greenfield. No. 940,310; Nov. 16; Sp. p. 4139; Gaz. vol. 148; p. 698.  
 Bottle. P. A. Thorin. No. 940,993; Nov. 23; Sp. p. 5616; Gaz. vol. 148; p. 952.  
 Bottle and bottle-valve, Non-refillable. M. F. Giffin. No. 944,030; Dec. 21; Sp. p. 4302; Gaz. vol. 149; p. 741.  
 Bottle and jar closure. L. Eschner. No. 914,252; Mar. 2; Sp. p. 1280; Gaz. vol. 140; p. 198.  
 Bottle and jar closure. O. Becher. No. 922,244; May 18; Sp. p. 4426; Gaz. vol. 142; p. 768.  
 Bottle and jar stopper. D. Baxter. No. 932,948; Aug. 31; Sp. p. 6996; Gaz. vol. 145; p. 1202.  
 Bottle and other receptacle, Milk-. C. Marthinson. No. 935,799; Oct. 5; Sp. p. 410; Gaz. vol. 147; p. 61.  
 Bottle and other vessel. J. H. Hunter and W. A. Palmer. No. 910,686; Jan. 26; Sp. p. 4617; Gaz. vol. 138; p. 840.  
 Bottle and stopper therefor. G. Sparano. No. 917,675; Apr. 6; Sp. p. 1381; Gaz. vol. 141; p. 244.  
 Bottle and stopper therefor. J. M. Anstead and H. Bollman. No. 944,166; Dec. 21; Sp. p. 4586; Gaz. vol. 149; p. 786.  
 Bottle and ticket holder. N. C. Van Otteren. No. 917,914; Apr. 13; Sp. p. 1929; Gaz. vol. 141; p. 349.  
 Bottle, Antifraud-. J. A. Horne. No. 924,230; June 8; Sp. p. 2495; Gaz. vol. 143; p. 405.  
 Bottle, Antirefillable. J. Riviere. No. 922,335; May 18; Sp. p. 4589; Gaz. vol. 142; p. 797.  
 Bottle, Antirefillable. E. A. Lambert. No. 926,009; June 22; Sp. p. 6104; Gaz. vol. 143; p. 1055.  
 Bottle, Antirefillable. J. N. Landon. No. 939,602; Nov. 9; Sp. p. 2565; Gaz. vol. 148; p. 421.  
 Bottle-blanks, Machine for making. W. E. Savage. No. 944,053; Dec. 21; Sp. p. 4347; Gaz. vol. 149; p. 749.  
 Bottle-blowing machine. A. Schiller. No. 923,898; June 8; Sp. p. 1781; Gaz. vol. 143; p. 296.  
 Bottle-blowing machine. S. E. Winder. No. 927,913; July 13; Sp. p. 2531; Gaz. vol. 144; p. 432.  
 Bottle-bracket. J. W. Barnard. No. 932,366; Aug. 24; Sp. p. 5778; Gaz. vol. 145; p. 987.  
 Bottle-cap. H. R. Vanaman. No. 917,196; Apr. 6; Sp. p. 481; Gaz. vol. 141; p. 84.  
 Bottle-cap. C. F. Jenkins. No. 919,872; Apr. 27; Sp. p. 6258; Gaz. vol. 141; p. 1067.  
 Bottle-cap. J. S. Alston. No. 930,916; Aug. 10; Sp. p. 2669; Gaz. vol. 145; p. 457.  
 Bottle-cap. A. M. Miller. No. 931,450; Aug. 17; Sp. p. 3862; Gaz. vol. 145; p. 666.  
 Bottle-cap. G. E. Stahl. No. 933,795; Sept. 14; Sp. p. 1694; Gaz. vol. 146; p. 281.  
 Bottle-cap. G. L. Best. No. 943,510; Dec. 14; Sp. p. 3178; Gaz. vol. 149; p. 534.  
 Bottle-cap lifter and cigar-cutter. E. C. Hunt. No. 933,988; Sept. 14; Sp. p. 2085; Gaz. vol. 146; p. 343.  
 Bottle cap, Non-refillable-. W. F. A. Boyens. No. 936,082; Oct. 5; Sp. p. 1021; Gaz. vol. 147; p. 154.  
 Bottle cap or closure. C. Hammer. No. 910,128; Jan. 19; Sp. p. 3415; Gaz. vol. 138; p. 628.  
 Bottle-caps, Device for removing. C. F. Forsyth and F. C. Wallace. No. 941,865; Nov. 30; Sp. p. 7524; Gaz. vol. 148; p. 1266.  
 Bottle-capper. R. B. Gilchrist. No. 935,013; Sept. 28; Sp. p. 4100; Gaz. vol. 146; p. 735.  
 Bottle-capping machine. B. Adriance and A. Calleson. No. 913,182; Feb. 23; Sp. p. 4451; Gaz. vol. 139; p. 803.



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- Bottle-capping machine. J. A. McNulty. No. 917,344; Apr. 6; Sp. p. 792; Gaz. vol. 141; p. 135.  
 Bottle-capping machine. G. Kirkegaard. No. 926,425; June 29; Sp. p. 6973; Gaz. vol. 143; p. 1228.  
 Bottle-capping machine. H. S. Brewington. No. 930,144; Aug. 3; Sp. p. 1104; Gaz. vol. 145; p. 178.  
 Bottle-capping machine. H. S. Brewington. No. 930,145; Aug. 3; Sp. p. 1107; Gaz. vol. 145; p. 179.  
 Bottle-capping machine. H. S. Brewington. No. 933,057; Sept. 7; Sp. p. 35; Gaz. vol. 146; p. 7.  
 Bottle-capping machine. W. J. Cunningham. No. 934,794; Sept. 21; Sp. p. 3861; Gaz. vol. 146; p. 636.  
 Bottle-capping machine. R. L. Shriner. No. 938,612; Nov. 2; Sp. p. 384; Gaz. vol. 148; p. 57.  
 Bottle-capping machine. G. Kirkegaard. No. 939,141; Nov. 2; Sp. p. 1468; Gaz. vol. 148; p. 238.  
 Bottle-capping machine. T. J. Levey. (Reissue.) No. 13,065; Dec. 28; Sp. p. 6416; Gaz. vol. 149; p. 1101.  
 Bottle-capping-machine head. L. C. Krummel. No. 938,325; Oct. 26; Sp. p. 5712; Gaz. vol. 147; p. 973.  
 Bottle-capping machine, Milk-. D. S. Yard. No. 935,879; Oct. 5; Sp. p. 601; Gaz. vol. 147; p. 86.  
 Bottle-carrier. H. Junge. No. 919,021; Apr. 20; Sp. p. 4286; Gaz. vol. 141; p. 749.  
 Bottle case, Milk-. H. E. Sanders. No. 917,156; Apr. 6; Sp. p. 404; Gaz. vol. 141; p. 70.  
 Bottle case or crate. W. C. Krause and H. C. Dorn. No. 933,184; Sept. 7; Sp. p. 322; Gaz. vol. 146; p. 52.  
 Bottle case or crate. A. J. Rice and C. S. Adams. No. 933,266; Sept. 7; Sp. p. 543; Gaz. vol. 146; p. 83.  
 Bottle casing and closure. D. A. Williams. No. 916,815; Mar. 30; Sp. p. 6375; Gaz. vol. 140; p. 1139.  
 Bottle casing, Vacuum-. P. O. E. Friedrich. No. 922,125; May 18; Sp. p. 4171; Gaz. vol. 142; p. 729.  
 Bottle-cleaning machine. O. Eick. No. 927,646; July 13; Sp. p. 1958; Gaz. vol. 144; p. 343.  
 Bottle-cleaning machine. A. A. Pindstoffe. No. 944,986; Dec. 28; Sp. p. 6357; Gaz. vol. 149; p. 1091.  
 Bottle-cleansing machine. F. Retzmann. No. 930,493; Aug. 10; Sp. p. 1747; Gaz. vol. 145; p. 315.  
 Bottle-closure. H. A. Olsson. No. 919,937; Apr. 27; Sp. p. 6368; Gaz. vol. 141; p. 1088.  
 Bottle-closure. J. Melisch. No. 920,771; May 4; Sp. p. 1366; Gaz. vol. 142; p. 221.  
 Bottle-closure. G. Waldmann. No. 920,794; May 4; Sp. p. 1423; Gaz. vol. 142; p. 230.  
 Bottle-closure. F. C. Stöckel. No. 921,908; May 18; Sp. p. 3739; Gaz. vol. 142; p. 659.  
 Bottle-closure. J. A. and J. Butkus. No. 935,296; Sept. 28; Sp. p. 4663; Gaz. vol. 146; p. 828.  
 Bottle-closure. W. R. Warner. No. 936,062; Oct. 5; Sp. p. 980; Gaz. vol. 147; p. 147.  
 Bottle-closure. H. W. Maurer. No. 936,467; Oct. 12; Sp. p. 1835; Gaz. vol. 147; p. 305.  
 Bottle-closure. F. W. H. Clay. No. 938,825; Nov. 2; Sp. p. 809; Gaz. vol. 148; p. 130.  
 Bottle-closure. R. M. Cauffman and W. West. No. 938,971; Nov. 2; Sp. p. 1126; Gaz. vol. 148; p. 181.  
 Bottle-closure. J. Richards and H. Ahnfeldt. No. 941,651; Nov. 30; Sp. p. 7051; Gaz. vol. 148; p. 1191.  
 Bottle-closure. W. H. Reid. No. 942,665; Dec. 7; Sp. p. 1316; Gaz. vol. 149; p. 216.  
 Bottle-closure. A. Adelson. No. 943,231; Dec. 14; Sp. p. 2582; Gaz. vol. 149; p. 437.  
 Bottle closure and seal. O. N. Tevander and A. Manierre. No. 942,421; Dec. 7; Sp. p. 808; Gaz. vol. 149; p. 132.  
 Bottle-closure and stopper-extractor, Combined. C. J. Korndorfer. No. 927,732; July 13; Sp. p. 2137; Gaz. vol. 144; p. 371.  
 Bottle-crate. W. C. Seifert. No. 914,080; Mar. 2; Sp. p. 909; Gaz. vol. 140; p. 143.  
 Bottle-draining and box-cleaning device, Combined. H. W. Noethig and M. C. Bourgo. No. 913,544; Feb. 23; Sp. p. 5192; Gaz. vol. 139; p. 925.  
 Bottle, Drenching-. C. B. Davis. No. 942,057; Dec. 7; Sp. p. 30; Gaz. vol. 149; p. 7.  
 Bottle-filler. S. B. Goff. No. 924,344; June 8; Sp. p. 2726; Gaz. vol. 143; p. 444.  
 Bottle filling and capping head. G. Kirkegaard. No. 931,624; Aug. 17; Sp. p. 4190; Gaz. vol. 145; p. 718.  
 Bottle filling and capping machine. G. Kirkegaard. No. 924,360; June 8; Sp. p. 2756; Gaz. vol. 143; p. 449.  
 Bottle filling and capping machine. G. Kirkegaard. No. 926,424; June 29; Sp. p. 6970; Gaz. vol. 143; p. 1227.  
 Bottle filling and capping machine. T. G. Redington. No. 931,649; Aug. 17; Sp. p. 4249; Gaz. vol. 145; p. 726.  
 Bottle filling and crowning machine. H. A. Allwardt. No. 944,352; Dec. 28; Sp. p. 4964; Gaz. vol. 149; p. 875.  
 Bottle-filling apparatus. W. L. Ellingwood. No. 916,425; Mar. 30; Sp. p. 5610; Gaz. vol. 140; p. 1016.  
 Bottle-filling apparatus. H. E. Sanders. No. 917,155; Apr. 6; Sp. p. 403; Gaz. vol. 141; p. 70.  
 Bottle-filling device. L. Whitton. No. 932,362; Aug. 24; Sp. p. 5769; Gaz. vol. 145; p. 955.  
 Bottle-filling machine. J. M. Falls. No. 912,236; Feb. 9; Sp. p. 2449; Gaz. vol. 139; p. 422.  
 Bottle-filling machine. B. Gallagher. No. 922,571; May 25; Sp. p. 5095; Gaz. vol. 142; p. 904.  
 Bottle-filling machine. T. Roberts. No. 931,344; Aug. 17; Sp. p. 3650; Gaz. vol. 145; p. 630.  
 Bottle-filling machine. J. M. Falls and L. P. Williams. No. 940,138; Nov. 16; Sp. p. 3748; Gaz. vol. 148; p. 639.  
 Bottle-filling machines, Bottle-centering device for. J. H. Champ. No. 909,868; Jan. 19; Sp. p. 2895; Gaz. vol. 138; p. 539.  
 Bottle-filling machines, Bottle-guide for. A. F. Zeller. No. 933,518; Sept. 7; Sp. p. 1155; Gaz. vol. 146; p. 166.  
 Bottle-filling machinery. L. McCampbell. No. 912,252; Feb. 9; Sp. p. 2485; Gaz. vol. 139; p. 428.  
 Bottle-finishing machine. T. M. Richards. No. 916,598; Mar. 30; Sp. p. 5984; Gaz. vol. 140; p. 1074.  
 Bottle for teething liquids and other liquids or materials. G. J. Packe. No. 931,795; Aug. 24; Sp. p. 4604; Gaz. vol. 145; p. 798.  
 Bottle heater, Water-. H. W. Christian. No. 925,681; June 22; Sp. p. 5404; Gaz. vol. 143; p. 946.  
 Bottle-holder. R. C. D. Legg. No. 926,339; June 29; Sp. p. 6817; Gaz. vol. 143; p. 1199.  
 Bottle-holder. R. W. Houston. No. 932,128; Aug. 24; Sp. p. 5324; Gaz. vol. 145; p. 908.  
 Bottle-holder. J. F. Parker. No. 934,344; Sept. 14; Sp. p. 2776; Gaz. vol. 146; p. 461.  
 Bottle holder, Infant's-feeding-. L. G. Black. No. 936,293; Oct. 12; Sp. p. 1421; Gaz. vol. 147; p. 247.  
 Bottle holder, Milk-. W. L. Johnson. No. 927,802; July 13; Sp. p. 2280; Gaz. vol. 144; p. 394.  
 Bottle holder, Milk-. V. C. Getty. No. 930,281; Aug. 3; Sp. p. 1336; Gaz. vol. 145; p. 221.  
 Bottle holder, Nursing-. D. D. Coombs. No. 917,753; Apr. 13; Sp. p. 1570; Gaz. vol. 141; p. 296.  
 Bottle holder, Nursing-. G. U. Malpass. No. 918,565; Apr. 20; Sp. p. 3269; Gaz. vol. 141; p. 596.  
 Bottle holder, Nursing-. C. Starbard. No. 932,344; Aug. 24; Sp. p. 5740; Gaz. vol. 145; p. 979.  
 Bottle-labeling machine. N. Muslar. No. 915,035; Mar. 9; Sp. p. 2835; Gaz. vol. 140; p. 480.  
 Bottle-lock. W. H. Bryan. No. 940,125; Nov. 16; Sp. p. 3724; Gaz. vol. 148; p. 635.  
 Bottle-locking bar. S. M. Henings. No. 928,197; July 13; Sp. p. 3090; Gaz. vol. 144; p. 526.  
 Bottle-making machine. A. Watts. No. 913,996; Mar. 2; Sp. p. 717; Gaz. vol. 140; p. 113.  
 Bottle mat, Milk-. C. A. Steinman. No. 934,230; Sept. 14; Sp. p. 2565; Gaz. vol. 146; p. 424.  
 Bottle-molds, Turn-table for. M. Nester. No. 920,622; May 4; Sp. p. 1068; Gaz. vol. 142; p. 173.  
 Bottle-neck-forming tool. W. S. Dorman. No. 920,550; May 4; Sp. p. 928; Gaz. vol. 142; p. 150.  
 Bottle-neck protector. V. Durand, Jr. No. 941,769; Nov. 30; Sp. p. 7314; Gaz. vol. 148; p. 1232.  
 Bottle-necks and ground-glass stoppers therefor, Making interchangeable ground-glass. C. M. Conradson. No. 914,244; Mar. 2; Sp. p. 1256; Gaz. vol. 140; p. 196.  
 Bottle-necks and stoppers therefor, Machine for spirally grinding interchangeable spirally-ground. C. M. Conradson. No. 914,243; Mar. 2; Sp. p. 1250; Gaz. vol. 140; p. 195.  
 Bottle, Non-refillable. M. V. Whiting. No. 908,718; Jan. 5; Sp. p. 615; Gaz. vol. 138; p. 95.  
 Bottle, Non-refillable. S. Gardner. No. 909,780; Jan. 12; Sp. p. 2706; Gaz. vol. 138; p. 479.  
 Bottle, Non-refillable. A. Hammerstein. No. 909,890; Jan. 19; Sp. p. 2936; Gaz. vol. 138; p. 546.  
 Bottle, Non-refillable. C. Standard. No. 910,093; Jan. 19; Sp. p. 3346; Gaz. vol. 138; p. 615.  
 Bottle, Non-refillable. H. Gehman. No. 912,109; Feb. 9; Sp. p. 2225; Gaz. vol. 139; p. 385.  
 Bottle, Non-refillable. G. Rommel and E. R. Nebeling. No. 912,892; Feb. 16; Sp. p. 3862; Gaz. vol. 139; p. 681.  
 Bottle, Non-refillable. O. Quaresima and J. Voll. No. 912,978; Feb. 16; Sp. p. 4036; Gaz. vol. 139; p. 708.  
 Bottle, Non-refillable. D. J. O'Neil. No. 913,840; Mar. 2; Sp. p. 338; Gaz. vol. 140; p. 57.  
 Bottle, Non-refillable. M. Forst. No. 914,129; Mar. 2; Sp. p. 1020; Gaz. vol. 140; p. 161.  
 Bottle, Non-refillable. C. S. Thomas. No. 914,529; Mar. 9; Sp. p. 1843; Gaz. vol. 140; p. 314.  
 Bottle, Non-refillable. F. Schmitz and W. Shanahan. No. 914,885; Mar. 9; Sp. p. 2588; Gaz. vol. 140; p. 432.  
 Bottle, Non-refillable. J. and O. Hee. No. 915,435; Mar. 16; Sp. p. 3663; Gaz. vol. 140; p. 638.  
 Bottle, Non-refillable. A. A. Johnson. No. 915,441; Mar. 16; Sp. p. 3679; Gaz. vol. 140; p. 640.  
 Bottle, Non-refillable. C. Hansen. No. 916,701; Mar. 30; Sp. p. 6177; Gaz. vol. 140; p. 1106.  
 Bottle, Non-refillable. J. Casaccia. No. 919,282; Apr. 20; Sp. p. 4969; Gaz. vol. 141; p. 833.  
 Bottle, Non-refillable. A. V. Westerlund. No. 919,664; Apr. 27; Sp. p. 5815; Gaz. vol. 141; p. 998.  
 Bottle, Non-refillable. A. L. Rudolph, Jr. No. 920,184; May 4; Sp. p. 183; Gaz. vol. 142; p. 29.  
 Bottle, Non-refillable. M. Loftus. No. 920,590; May 4; Sp. p. 1010; Gaz. vol. 142; p. 164.  
 Bottle, Non-refillable. W. L. Schultz. No. 921,009; May 11; Sp. p. 1859; Gaz. vol. 142; p. 329.  
 Bottle, Non-refillable. J. C. Davis. No. 921,809; May 18; Sp. p. 3532; Gaz. vol. 142; p. 627.  
 Bottle, Non-refillable. C. A. Anderson. No. 922,998; May 25; Sp. p. 5974; Gaz. vol. 142; p. 1042.  
 Bottle, Non-refillable. G. B. Fletcher. No. 924,333; June 8; Sp. p. 2705; Gaz. vol. 143; p. 440.  
 Bottle, Non-refillable. T. W. Leonard. No. 926,580; June 29; Sp. p. 7239; Gaz. vol. 143; p. 1279.  
 Bottle, Non-refillable. A. V. Westerlund. No. 929,356; July 27; Sp. p. 5544; Gaz. vol. 144; p. 971.

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- Bottle, Non-refillable. M. V. Griffin. No. 932,422; Aug. 24; Sp. p. 5886; Gaz. vol. 145; p. 1004.  
 Bottle, Non-refillable. L. Runer. No. 932,498; Aug. 31; Sp. p. 6071; Gaz. vol. 145; p. 1052.  
 Bottle, Non-refillable. M. B. Diskin. No. 932,687; Aug. 31; Sp. p. 6482; Gaz. vol. 145; p. 1117.  
 Bottle, Non-refillable. J. Burnstein. No. 933,530; Sept. 7; Sp. p. 1175; Gaz. vol. 146; p. 170.  
 Bottle, Non-refillable. P. Daniel. No. 934,659; Sept. 21; Sp. p. 3397; Gaz. vol. 146; p. 592.  
 Bottle, Non-refillable. C. V. and I. H. Watter. No. 935,074; Sept. 28; Sp. p. 4228; Gaz. vol. 146; p. 756.  
 Bottle, Non-refillable. J. G. B. Bloomer. No. 935,887; Oct. 5; Sp. p. 618; Gaz. vol. 147; p. 89.  
 Bottle, Non-refillable. J. S. Bromhead. No. 936,860; Oct. 12; Sp. p. 2626; Gaz. vol. 147; p. 438.  
 Bottle, Non-refillable. C. W. Schmidt and A. Mackie, Jr. No. 937,473; Oct. 19; Sp. p. 3931; Gaz. vol. 147; p. 668.  
 Bottle, Non-refillable. H. W. Deutsch. No. 938,303; Oct. 26; Sp. p. 5668; Gaz. vol. 147; p. 965.  
 Bottle, Non-refillable. H. W. Deutsch. No. 938,413; Oct. 26; Sp. p. 5922; Gaz. vol. 147; p. 1004.  
 Bottle, Non-refillable. M. Raymond. No. 938,703; Nov. 2; Sp. p. 558; Gaz. vol. 148; p. 87.  
 Bottle, Non-refillable. R. Riegel. No. 938,706; Nov. 2; Sp. p. 561; Gaz. vol. 148; p. 88.  
 Bottle, Non-refillable. E. Ferguson. No. 939,238; Nov. 9; Sp. p. 1716; Gaz. vol. 148; p. 298.  
 Bottle, Non-refillable. L. M. Packard. No. 939,300; Nov. 9; Sp. p. 1881; Gaz. vol. 148; p. 320.  
 Bottle, Non-refillable. S. Peloso. No. 939,305; Nov. 9; Sp. p. 1893; Gaz. vol. 148; p. 322.  
 Bottle, Non-refillable. S. A. Miner. No. 939,430; Nov. 9; Sp. p. 2194; Gaz. vol. 148; p. 364.  
 Bottle, Non-refillable. F. W. Herbert. No. 940,687; Nov. 23; Sp. p. 4977; Gaz. vol. 148; p. 849.  
 Bottle, Non-refillable. L. C. Foster. No. 940,962; Nov. 23; Sp. p. 5563; Gaz. vol. 148; p. 941.  
 Bottle, Non-refillable. J. Berg. No. 941,184; Nov. 23; Sp. p. 6057; Gaz. vol. 148; p. 1016.  
 Bottle, Non-refillable. E. B. Barner. No. 941,551; Nov. 30; Sp. p. 6837; Gaz. vol. 148; p. 1157.  
 Bottle, Non-refillable. A. G. H. Jensen and R. C. Weitzel. No. 941,994; Nov. 30; Sp. p. 7764; Gaz. vol. 148; p. 1308.  
 Bottle, Non-refillable. F. S. Novotny. No. 942,183; Dec. 7; Sp. p. 335; Gaz. vol. 149; p. 51.  
 Bottle, Non-refillable. H. C. Anderson and F. S. Ash. No. 943,331; Dec. 14; Sp. p. 2792; Gaz. vol. 149; p. 470.  
 Bottle, Non-refillable. J. Birner and E. J. Heil. No. 943,334; Dec. 14; Sp. p. 2797; Gaz. vol. 149; p. 471.  
 Bottle, Non-refillable. A. La Rosa. No. 943,425; Dec. 14; Sp. p. 2976; Gaz. vol. 149; p. 502.  
 Bottle, Non-refillable. I. A. Rosenfeld. No. 943,895; Dec. 21; Sp. p. 4002; Gaz. vol. 149; p. 694.  
 Bottle, Non-refillable. T. G. Clifford. No. 944,015; Dec. 21; Sp. p. 4277; Gaz. vol. 149; p. 736.  
 Bottle, Non-refillable. C. Hatossy. No. 944,092; Dec. 21; Sp. p. 4421; Gaz. vol. 149; p. 762.  
 Bottle, Non-refillable. C. H. Mensch. No. 944,200; Dec. 21; Sp. p. 4647; Gaz. vol. 149; p. 795.  
 Bottle, Non-refillable. J. J. Hourihan. No. 944,439; Dec. 28; Sp. p. 5164; Gaz. vol. 149; p. 906.  
 Bottle, Non-refillable attachment. D. Westcott. No. 924,299; June 8; Sp. p. 2634; Gaz. vol. 143; p. 428.  
 Bottle, Nursing-. E. E. Etter. No. 921,387; May 11; Sp. p. 2670; Gaz. vol. 142; p. 459.  
 Bottle, Nursing-. R. A. Van Cleave. No. 927,013; July 6; Sp. p. 640; Gaz. vol. 144; p. 104.  
 Bottle-opener. J. Hough. No. 926,807; July 6; Sp. p. 203; Gaz. vol. 144; p. 34.  
 Bottle-opener. H. L. Vaughan. No. 943,759; Dec. 21; Sp. p. 3723; Gaz. vol. 149; p. 648.  
 Bottle-opener and cigar-cutter, Combined. J. L. Sommer. No. 936,678; Oct. 12; Sp. p. 2275; Gaz. vol. 147; p. 377.  
 Bottle or can locking device. H. E. Trevor. No. 934,481; Sept. 21; Sp. p. 3049; Gaz. vol. 146; p. 532.  
 Bottle or receptacle, Collapsible. L. P. Brown. No. 926,237; June 29; Sp. p. 6621; Gaz. vol. 143; p. 1168.  
 Bottle or receptacle, Heat and cold non-conducting. P. O. E. Friedrich. No. 920,562; May 4; Sp. p. 950; Gaz. vol. 142; p. 154.  
 Bottle receptacle, Milk-. A. G. Brodhead. No. 941,853; Nov. 30; Sp. p. 7503; Gaz. vol. 148; p. 1261.  
 Bottle-rest for filling-machines. J. H. Champ. No. 933,362; Sept. 7; Sp. p. 747; Gaz. vol. 146; p. 116.  
 Bottle-rinsing machine. E. Court. No. 908,446; Jan. 5; Sp. p. 24; Gaz. vol. 138; p. 6.  
 Bottle-rinsing machine. A. Wolfensberger. No. 934,870; Sept. 21; Sp. p. 3807; Gaz. vol. 146; p. 670.  
 Bottle seal and closure. D. A. Williams. No. 916,814; Mar. 30; Sp. p. 6373; Gaz. vol. 140; p. 1139.  
 Bottle-sealing cap. L. Kalling. No. 922,286; May 18; Sp. p. 4504; Gaz. vol. 142; p. 782.  
 Bottle-sealing device. H. P. Roberts. No. 916,198; Mar. 23; Sp. p. 5171; Gaz. vol. 140; p. 916.  
 Bottle-sealing machine. E. J. Godman. No. 920,048; Apr. 27; Sp. p. 6608; Gaz. vol. 141; p. 1124.  
 Bottle, Siphon-. P. Devarco. No. 938,746; Nov. 2; Sp. p. 637; Gaz. vol. 148; p. 101.  
 Bottle soaking and rinsing machine. J. H. Kintzele. No. 937,444; Oct. 19; Sp. p. 3869; Gaz. vol. 147; p. 659.  
 Bottle-soaking machine. S. Volz. No. 919,796; Apr. 27; Sp. p. 6057; Gaz. vol. 141; p. 1042.  
 Bottle-soaking machine. S. L. Goldman. No. 920,564; May 4; Sp. p. 954; Gaz. vol. 142; p. 155.  
 Bottle-stopper. J. J. O'Grady. No. 912,156; Feb. 9; Sp. p. 2300; Gaz. vol. 139; p. 399.  
 Bottle-stopper. F. Rumrill. No. 915,116; Mar. 16; Sp. p. 3025; Gaz. vol. 140; p. 534.  
 Bottle-stopper. G. H. Newey. No. 917,646; Apr. 6; Sp. p. 1333; Gaz. vol. 141; p. 235.  
 Bottle-stopper. C. A. Hunt, Jr. No. 920,338; May 4; Sp. p. 506; Gaz. vol. 142; p. 80.  
 Bottle-stopper. M. Aliber. No. 921,055; May 11; Sp. p. 1948; Gaz. vol. 142; p. 346.  
 Bottle-stopper. G. Kirkegaard. No. 922,779; May 25; Sp. p. 5521; Gaz. vol. 142; p. 971.  
 Bottle-stopper. R. Brown, Jr. No. 924,532; June 8; Sp. p. 3086; Gaz. vol. 143; p. 505.  
 Bottle-stopper. E. Goltstein. No. 926,408; June 29; Sp. p. 6926; Gaz. vol. 143; p. 1220.  
 Bottle-stopper. W. L. Bodman. No. 927,771; July 13; Sp. p. 2218; Gaz. vol. 144; p. 384.  
 Bottle-stopper. G. Kirkegaard. No. 931,625; Aug. 17; Sp. p. 4193; Gaz. vol. 145; p. 719.  
 Bottle-stopper. E. J. Bricker. No. 936,515; Oct. 12; Sp. p. 1940; Gaz. vol. 147; p. 320.  
 Bottle-stopper. W. E. Gaston. No. 940,926; Nov. 23; Sp. p. 5481; Gaz. vol. 148; p. 929.  
 Bottle-stopper. D. Landau. No. 941,788; Nov. 30; Sp. p. 7344; Gaz. vol. 148; p. 1238.  
 Bottle-stopper. F. Gerhard. No. 944,671; Dec. 28; Sp. p. 5685; Gaz. vol. 149; p. 986.  
 Bottle-stopper lock. J. L. Peters. No. 924,375; June 8; Sp. p. 2795; Gaz. vol. 143; p. 454.  
 Bottle stopper, Vacuum-. G. P. Van Wye. No. 918,246; Apr. 13; Sp. p. 2625; Gaz. vol. 141; p. 464.  
 Bottle, &c., stoppering device. L. B. Jones and H. C. Braun. No. 926,571; June 29; Sp. p. 7219; Gaz. vol. 143; p. 1276.  
 Bottle-stoppering-machine attachment. M. H. Mulkey. No. 908,688; Jan. 5; Sp. p. 546; Gaz. vol. 138; p. 85.  
 Bottle structure. A. F. Callahan. No. 937,049; Oct. 19; Sp. p. 3012; Gaz. vol. 147; p. 528.  
 Bottle-support and stopper-puller. M. A. Gould. No. 926,112; June 29; Sp. p. 6335; Gaz. vol. 143; p. 1125.  
 Bottle, Teletale-. A. Midbo and G. Gulbrandson. No. 941,890; Nov. 30; Sp. p. 7571; Gaz. vol. 148; p. 1274.  
 Bottle top, Milk-. C. F. Edlund. No. 933,636; Sept. 7; Sp. p. 1374; Gaz. vol. 146; p. 205.  
 Bottle, Vacuum-. J. G. Lyman. No. 922,174; May 18; Sp. p. 4266; Gaz. vol. 142; p. 745.  
 Bottle, Vacuum-insulated. G. P. Van Wye. No. 917,816; Apr. 13; Sp. p. 1719; Gaz. vol. 141; p. 317.  
 Bottle, Vacuum-insulated. G. P. Van Wye. No. 922,363; May 18; Sp. p. 4639; Gaz. vol. 142; p. 806.  
 Bottle, Vacuum-insulated. G. P. Van Wye. No. 922,364; May 18; Sp. p. 4640; Gaz. vol. 142; p. 806.  
 Bottle, Vacuum-insulated. O. A. Boehm. No. 924,138; June 8; Sp. p. 2253; Gaz. vol. 143; p. 373.  
 Bottle, Vacuum nursing-. P. O. E. Friedrich. No. 922,413; May 18; Sp. p. 4753; Gaz. vol. 142; p. 824.  
 Bottle-washer. E. L. Arndt and J. I. Marquart. No. 909,736; Jan. 12; Sp. p. 2632; Gaz. vol. 138; p. 465.  
 Bottle-washer arm and brush. C. K. Volckening. No. 922,981; May 25; Sp. p. 5944; Gaz. vol. 142; p. 1036.  
 Bottle washer, Milk-. W. W. Haggard. No. 940,011; Nov. 16; Sp. p. 3439; Gaz. vol. 148; p. 593.  
 Bottle-washing apparatus. C. Truesdell. No. 910,882; Jan. 26; Sp. p. 5011; Gaz. vol. 138; p. 903.  
 Bottle-washing-brush stem. C. K. Volckening. No. 922,982; May 25; Sp. p. 5945; Gaz. vol. 142; p. 1037.  
 Bottle-washing machine. E. Utard and A. Gimonet. No. 932,193; Aug. 24; Sp. p. 5461; Gaz. vol. 145; p. 930.  
 Bottle-washing machine. G. W. Koch. No. 935,261; Sept. 28; Sp. p. 4593; Gaz. vol. 146; p. 817.  
 Bottle-washing machine. P. Polnisch. No. 944,499; Dec. 28; Sp. p. 5319; Gaz. vol. 149; p. 927.  
 Bottle-wrapper. E. C. Rinier. No. 934,758; Sept. 21; Sp. p. 3582; Gaz. vol. 146; p. 624.  
 Bottles and like vessels, Closure for. P. Leinbrock. No. 922,167; May 18; Sp. p. 4247; Gaz. vol. 142; p. 742.  
 Bottles and similar vessels, Machine for cleansing. L. Strasburger and L. Granges. No. 940,948; Nov. 23; Sp. p. 5534; Gaz. vol. 148; p. 937.  
 Bottles and the like, Detachable handle for. A. J. Leh and E. C. Hellick. No. 933,085; Sept. 7; Sp. p. 98; Gaz. vol. 146; p. 17.  
 Bottles, cans, &c., Powder-distributor and closure for. C. H. Van Rensselaer. No. 914,766; Mar. 9; Sp. p. 2345; Gaz. vol. 140; p. 393.  
 Bottles, Case for vacuum or other. N. Goldberg. No. 936,119; Oct. 5; Sp. p. 1090; Gaz. vol. 147; p. 166.  
 Bottles containing aerated liquids, Stopper for. D. Landau. No. 922,158; May 18; Sp. p. 4236; Gaz. vol. 142; p. 740.  
 Bottles intended to contain volatile liquids, Stoppering for. J. Bengué. No. 944,765; Dec. 28; Sp. p. 5904; Gaz. vol. 149; p. 1018.  
 Bottles, jars, and the like receptacles, Closure for. A. F. White. No. 934,252; Sept. 14; Sp. p. 2613; Gaz. vol. 146; p. 432.  
 Bottles, jars, and the like, Stoppering. M. Quillot. No. 926,895; July 6; Sp. p. 395; Gaz. vol. 144; p. 64.  
 Bottles, &c., Locking device for. R. C. Green. No. 924,347; June 8; Sp. p. 2730; Gaz. vol. 143; p. 445.  
 Bottles, &c., Locking device for. R. C. Green. No. 924,348; June 8; Sp. p. 2732; Gaz. vol. 143; p. 445.  
 Bottles, Machine for applying caps to. F. Recht. No. 929,248; July 27; Sp. p. 5262; Gaz. vol. 144; p. 932.  
 Bottles, Machine for manufacturing glass. T. W. Simpson. No. 933,590; Sept. 7; Sp. p. 1279; Gaz. vol. 146; p. 190.



*Alphabetical list of inventions—Continued.*

- Bottles, Means for extracting the contents of. A. J. Farmer. No. 920,121; May 4; Sp. p. 67; Gaz. vol. 142; p. 8.  
 Bottles, Means for extracting the contents of. A. J. Farmer. No. 922,758; May 25; Sp. p. 5454; Gaz. vol. 142; p. 964.  
 Bottles or jars, Dipping device for. B. W. McGinnis. No. 929,464; July 27; Sp. p. 5719; Gaz. vol. 144; p. 1003.  
 Bottles or like articles, Machine for cleaning. G. R. Lawrence. No. 932,145; Aug. 24; Sp. p. 5357; Gaz. vol. 145; p. 913.  
 Bottles or other receptacles, Machine for capping or closing charged. E. K. Moore. No. 928,781; July 20; Sp. p. 4302; Gaz. vol. 144; p. 750.  
 Bottles or other receptacles, Machine for filling. T., Sr., and E. L. Baines. No. 915,725; Mar. 23; Sp. p. 4296; Gaz. vol. 140; p. 764.  
 Bottles or other vessels, Closing device for. J. E. Fagerström, A. E. Johansson, and G. Streijffert. No. 910,998; Jan. 26; Sp. p. 5219; Gaz. vol. 138; p. 940.  
 Bottles or the like, Closure for atomizer-. A. and T. A. De Vilbiss. No. 935,094; Sept. 28; Sp. p. 4276; Gaz. vol. 146; p. 764.  
 Bottles, packages, and the like, Safety holder or receptacle for. S. C. Loomis. No. 925,586; June 22; Sp. p. 5210; Gaz. vol. 143; p. 917.  
 Bottles, Screw-capping. A. Wilzin. No. 937,401; Oct. 19; Sp. p. 3761; Gaz. vol. 147; p. 644.  
 Bottles with aerated waters, Machine for filling. W., J., and J. Forrester. No. 927,228; July 6; Sp. p. 1089; Gaz. vol. 144; p. 177.  
 Bottler's apparatus. G. J. Meyer. No. 940,178; Nov. 16; Sp. p. 3838; Gaz. vol. 148; p. 652.  
 Bottling and syringing aerated beverages, Machine for. A. E. Munson. No. 934,454; Sept. 21; Sp. p. 3001; Gaz. vol. 146; p. 523.  
 Bottling apparatus, Liquid-. F. G. Riley. No. 932,415; Aug. 24; Sp. p. 5869; Gaz. vol. 145; p. 1002.  
 Bottling device. F. W. Dafeo. No. 926,550; June 29; Sp. p. 7183; Gaz. vol. 143; p. 1269.  
 Bottling-machine. A. Calleson. No. 919,319; Apr. 27; Sp. p. 5063; Gaz. vol. 141; p. 879.  
 Bottling-machine. J. H. Champ. No. 933,361; Sept. 7; Sp. p. 740; Gaz. vol. 146; p. 115.  
 Bottling-machine. J. H. Champ. No. 939,214; Nov. 9; Sp. p. 1644; Gaz. vol. 148; p. 290.  
 Bottling-machine. J. H. Champ. No. 939,978; Nov. 16; Sp. p. 3366; Gaz. vol. 148; p. 581.  
 Bottling-machine. R. Littler. No. 942,271; Dec. 7; Sp. p. 514; Gaz. vol. 149; p. 81.  
 Bottling-machine crown-branding attachment. F. M. Gilmore and M. H. Mulkey. No. 909,396; Jan. 12; Sp. p. 1949; Gaz. vol. 138, p. 348.  
 Bottling-machine for beer, mineral waters, and the like, Counter-pressure. R. W. Webster and L. Chew. No. 921,032; May 11; Sp. p. 1906; Gaz. vol. 142; p. 337.  
 Bottling machine, Liquid-. F. W. Jacob. No. 938,240; Oct. 26; Sp. p. 5529; Gaz. vol. 147; p. 945.  
 Bottling machine, Milk-. G. Strandt and A. H. Niemann. No. 933,678; Sept. 7; Sp. p. 1453; Gaz. vol. 146; p. 219.  
 Bottling-machine, Rotary. A. A. Pindstoffe. No. 935,685; Oct. 5; Sp. p. 133; Gaz. vol. 147; p. 22.  
 Bow-fastening device. I. Roggenburg. No. 944,465; Dec. 28; Sp. p. 5227; Gaz. vol. 149; p. 915.  
 Bow-separator. C. E. Titchener. No. 933,933; Sept. 14; Sp. p. 1976; Gaz. vol. 146; p. 326.  
 Bowl, Fish-. K. Booth. No. 925,861; June 22; Sp. p. 5821; Gaz. vol. 143; p. 1008.  
 Bowl, Flush-. B. G. Butler. No. 913,355; Feb. 23; Sp. p. 4806; Gaz. vol. 139; p. 861.  
 Bowl-holder. A. S. Frambach. No. 927,722; July 13; Sp. p. 2126; Gaz. vol. 144; p. 368.  
 Bowl-holder. C. M. Haynes. No. 927,724; July 13; Sp. p. 2128; Gaz. vol. 144; p. 369.  
 Bowl-holding rack. A. Insinger. No. 936,725; Oct. 12; Sp. p. 2366; Gaz. vol. 147; p. 393.  
 Bowl or tureen. O. A. Boehm. No. 927,102; July 6; Sp. p. 849; Gaz. vol. 144; p. 136.  
 Bowl, Separator-. G. Webster. No. 913,079; Feb. 23; Sp. p. 4240; Gaz. vol. 139; p. 768.  
 Bowl, Sugar-. J. T. McLeellan. No. 922,315; May 18; Sp. p. 4546; Gaz. vol. 142; p. 790.  
 Bowl, Sugar-. C. T. McCreery. No. 939,066; Nov. 2; Sp. p. 1315; Gaz. vol. 148; p. 213.  
 Bowling-alley. J. H. Stoddard. No. 919,086; Apr. 20; Sp. p. 4399; Gaz. vol. 141; p. 768.  
 Bowling-alley. H. V. Keefer. No. 943,419; Dec. 14; Sp. p. 2966; Gaz. vol. 149; p. 501.  
 Bowling-alley amusement device. H. Leighton. No. 939,250; Nov. 9; Sp. p. 1808; Gaz. vol. 148; p. 312.  
 Bowling-alley finishing and leveling machine. O. L. Pickard. No. 939,544; Nov. 9; Sp. p. 2423; Gaz. vol. 148; p. 402.  
 Bowling-alley pin-setting mechanism. L. A. Brigel. No. 941,611; Nov. 30; Sp. p. 6958; Gaz. vol. 148; p. 1177.  
 Bowling-alley-surfacing machine. G. B. Gonia. No. 940,004; Nov. 16; Sp. p. 3425; Gaz. vol. 148; p. 590.  
 Bowling device. C. Zabel. No. 924,212; June 8; Sp. p. 2458; Gaz. vol. 143; p. 399.  
 Bowling-machine. J. and J. A. Venn. No. 943,494; Dec. 14; Sp. p. 3131; Gaz. vol. 149; p. 528.  
 Bowling-pin. B. Merkle. No. 940,341; Nov. 16; Sp. p. 4208; Gaz. vol. 148; p. 709.  
 Box: See Annealing-box; Ballot-box; Battery-box; Bearing-box; Bedstead-shipping box; Berry-box; Blacking-box; Bread-box; Bread and cake box; Cake and pie box; Call-box; Car-axle box; Car sand-box; Cigar-box; Cigar-pressing box; Cigarette-box; Cigarette and match box; Cigarette and tobacco box; Cigarette or cigar box; Coffin-box; Coin-operated box; Collapsible box; Collection-box; Color-box; Conduit service-box; Cooling-box; Display-box; Draw-box; Egg-box; Electric-conductor-terminal floor-box; Electric outlet-box; Electrical-conductor junction-box; Engine-crank-box; Fare-box; Fare-collecting box; Feed-box; File-box; Fire-box; Fire-alarm box; Fishing-tackle box; Folding box; Fruit-box; Fuse-box; Gas-producer wind-box; Index-box; Jewelry-box; Journal-box; Junction-box; Junction, wall, floor, or other box; Knock-down box; Knock-down or foldable box; Letter-box; Lunch-box; Mail-box; Mail and newspaper box; Mailing-box; Mantle-box; Match-box; Match-serving box; Metal box; Metal-bound box; Meter-box; Miter-box; Molding-box; Money-box; Nail-box; Nest-box; Outlet-box; Outlet or junction box; Packing-box; Packing and shipping box; Packing or shipping box; Paper box; Paper fruit-box; Paper lunch-box; Pencil-box; Photograph-record box; Photographic change-box; Photographic washing-box; Piano and organ box; Pitman-box; Pocket-box; Post-office box; Powder-box; Powder-puff box; Press-box; Puzzle-box; Removable box; Rod, stem, and shaft compound stuffing-box; Safety-box; Salt and pepper box; Sand-box; Seed-box; Self-locking box; Service-box; Sheet-metal box; Shipping-box; Snelled-hook box; Sound-box; Spice-box; Stamp-box; Stereotype-casting box; Storage-chamber box; Stuffing-box; Talking-machine sound-box; Talking-machine sound-reproducing box; Tally-box; Telephone-box; Telephone coin-box; Telephone-jack box; Telephone toll-box; Tobacco-box; Toll-box; Veneer box; Wagon-box; Water and gas box; Window-box; Wire-bound box; Work-box.  
 Box. J. A. Liebler. No. 908,784; Jan. 5; Sp. p. 740; Gaz. vol. 138; p. 116.  
 Box. T. L. Morgan. No. 909,009; Jan. 5; Sp. p. 1186; Gaz. vol. 138; p. 189.  
 Box. E. L. Anson. No. 911,693; Feb. 9; Sp. p. 1339; Gaz. vol. 139; p. 249.  
 Box. A. V. Dullye and G. H. Woodrome. No. 912,832; Feb. 16; Sp. p. 3777; Gaz. vol. 139; p. 664.  
 Box. R. A. Robbins. No. 913,054; Feb. 23; Sp. p. 4199; Gaz. vol. 139; p. 760.  
 Box. H. B. Walter. No. 915,394; Mar. 16; Sp. p. 3588; Gaz. vol. 140; p. 624.  
 Box. H. B. Walter. No. 915,395; Mar. 16; Sp. p. 3589; Gaz. vol. 140; p. 625.  
 Box. E. L. Anson. No. 916,249; Mar. 23; Sp. p. 5272; Gaz. vol. 140; p. 932.  
 Box. E. L. Anson. No. 917,835; Apr. 13; Sp. p. 1754; Gaz. vol. 141; p. 322.  
 Box. E. E. Flora. No. 918,138; Apr. 13; Sp. p. 2396; Gaz. vol. 141; p. 429.  
 Box. E. E. Flora. No. 921,603; May 11; Sp. p. 3098; Gaz. vol. 142; p. 529.  
 Box. C. Fassnacht. No. 922,685; May 25; Sp. p. 5333; Gaz. vol. 142; p. 941.  
 Box. C. E. Boberg. No. 923,111; May 25; Sp. p. 6219; Gaz. vol. 142; p. 1078.  
 Box. G. E. Hosch. No. 924,354; June 8; Sp. p. 2742; Gaz. vol. 143; p. 447.  
 Box. E. G. Reynolds. No. 924,381; June 8; Sp. p. 2808; Gaz. vol. 143; p. 456.  
 Box. P. H. Kraetsch. No. 925,349; June 15; Sp. p. 4739; Gaz. vol. 143; p. 809.  
 Box. J. Cochran. No. 926,640; June 29; Sp. p. 7359; Gaz. vol. 143; p. 1298.  
 Box. F. Jager. No. 927,800; July 13; Sp. p. 2277; Gaz. vol. 144; p. 394.  
 Box. W. R. Parsons. No. 928,681; July 20; Sp. p. 4508; Gaz. vol. 144; p. 785.  
 Box. F. J. Motz. No. 929,156; July 27; Sp. p. 5080; Gaz. vol. 144; p. 902.  
 Box. W. L. Howland. No. 929,438; July 27; Sp. p. 5671; Gaz. vol. 144; p. 936.  
 Box. S. Bachmann. No. 931,373; Aug. 17; Sp. p. 3707; Gaz. vol. 145; p. 640.  
 Box. A. Sabor. No. 931,655; Aug. 17; Sp. p. 4264; Gaz. vol. 145; p. 728.  
 Box. L. J. Merrigan. No. 933,259; Sept. 7; Sp. p. 527; Gaz. vol. 146; p. 81.  
 Box. S. Bachmann. No. 935,349; Sept. 28; Sp. p. 4787; Gaz. vol. 146; p. 846.  
 Box. J. J. Mitchell. No. 935,674; Oct. 5; Sp. p. 108; Gaz. vol. 147; p. 13.  
 Box. M. M. King. No. 938,590; Nov. 2; Sp. p. 338; Gaz. vol. 148; p. 50.  
 Box. J. H. Baker. No. 938,811; Nov. 2; Sp. p. 776; Gaz. vol. 148; p. 125.  
 Box. G. B. Reed. No. 939,166; Nov. 2; Sp. p. 1535; Gaz. vol. 148; p. 249.  
 Box. H. L. Miner. No. 939,287; Nov. 9; Sp. p. 1822; Gaz. vol. 148; p. 315.  
 Box. E. Langschmidt. No. 939,517; Nov. 9; Sp. p. 2367; Gaz. vol. 148; p. 392.  
 Box. R. W. Carroll. No. 940,922; Nov. 23; Sp. p. 5475; Gaz. vol. 148; p. 928.  
 Box. D. H. Glover. No. 941,140; Nov. 23; Sp. p. 5955; Gaz. vol. 148; p. 1002.  
 Box. A. E. Klingenberg. No. 941,323; Nov. 23; Sp. p. 6338; Gaz. vol. 148; p. 1060.  
 Box. H. H. Kinsey. No. 942,391; Dec. 7; Sp. p. 743; Gaz. vol. 149; p. 122.  
 Box alarm, Portable-. N. P. Bissonnette. No. 917,991; Apr. 13; Sp. p. 2103; Gaz. vol. 141; p. 377.  
 Box and case. C. H. Meyers. No. 935,388; Sept. 28; Sp. p. 4854; Gaz. vol. 146; p. 858.  
 Box and sliding cover. A. Falk. No. 912,658; Feb. 16; Sp. p. 3368; Gaz. vol. 139; p. 605.

*Alphabetical list of inventions—Continued.*

- Box and writing-desk, Combined. E. P. Lynch. No. 930,774; Aug. 10; Sp. p. 2366; Gaz. vol. 145; p. 410.
- Box attachment. H. W. Stuver. No. 923,381; June 1; Sp. p. 614; Gaz. vol. 143; p. 90.
- Box-blank-making machine, Wire-bound-. R. G. Inwood. No. 913,953; Mar. 2; Sp. p. 630; Gaz. vol. 140; p. 99.
- Box-board. H. L. Beveridge. No. 925,277; June 15; Sp. p. 4610; Gaz. vol. 143; p. 788.
- Box-board, Corrugated. W. G. Chapin. No. 918,964; Apr. 20; Sp. p. 4187; Gaz. vol. 141; p. 731.
- Box carrier, Ash-. H. S. Bramble. No. 912,444; Feb. 16; Sp. p. 2930; Gaz. vol. 139; p. 531.
- Box corner-stay. R. J. Robillard. No. 944,381; Dec. 28; Sp. p. 5034; Gaz. vol. 149; p. 886.
- Box corner-stay and reinforce. H. C. Tufts. No. 922,066; May 18; Sp. p. 4060; Gaz. vol. 142; p. 710.
- Box coupling, Junction-. E. S. Morrell. No. 915,990; Mar. 23; Sp. p. 4794; Gaz. vol. 140; p. 847.
- Box coupling, Junction-. E. S. Morrell. No. 917,342; Apr. 6; Sp. p. 790; Gaz. vol. 141; p. 135.
- Box-cover fastener. C. W. Ridpath. No. 920,494; May 4; Sp. p. 804; Gaz. vol. 142; p. 130.
- Box-cover fastening. F. H. Moellenbrock. No. 942,336; Dec. 7; Sp. p. 652; Gaz. vol. 149; p. 104.
- Box-cover press. H. Vial. No. 913,178; Feb. 23; Sp. p. 4445; Gaz. vol. 139; p. 801.
- Box-covering machine. T. H. Wible. No. 916,078; Mar. 23; Sp. p. 4950; Gaz. vol. 140; p. 877.
- Box-covering machine, Automatic. P. S. Smith. No. 912,745; Feb. 16; Sp. p. 3603; Gaz. vol. 139; p. 636.
- Box-covering machine, Loose-wrapped-. P. S. Smith. No. 912,746; Feb. 16; Sp. p. 3612; Gaz. vol. 139; p. 636.
- Box-end-stapling machine. C. C. Chapman. No. 921,588; May 11; Sp. p. 3047; Gaz. vol. 142; p. 523.
- Box-fastener. N. Dahl. No. 909,161; Jan. 12; Sp. p. 1508; Gaz. vol. 138; p. 273.
- Box-fastener. G. H. Maas. No. 909,918; Jan. 19; Sp. p. 3003; Gaz. vol. 138; p. 556.
- Box-fastener. G. H. Maas. No. 909,919; Jan. 19; Sp. p. 3006; Gaz. vol. 138; p. 557.
- Box-fastener. R. Schleicher. No. 915,045; Mar. 9; Sp. p. 2853; Gaz. vol. 140; p. 483.
- Box-fastener. A. M. Amberg. No. 925,443; June 22; Sp. p. 4934; Gaz. vol. 143; p. 871.
- Box-fastener. T. S. Tobey. No. 927,614; July 13; Sp. p. 1886; Gaz. vol. 144; p. 333.
- Box-fastener. S. Whitehall. No. 935,872; Oct. 5; Sp. p. 592; Gaz. vol. 147; p. 84.
- Box-fastener. C. O. Mason. No. 942,839; Dec. 7; Sp. p. 1664; Gaz. vol. 149; p. 272.
- Box-fastener-applying machine. P. E. Lettré. No. 934,738; Sept. 21; Sp. p. 3546; Gaz. vol. 146; p. 618.
- Box-fastener, Hook-and-eye. W. Gregson. No. 944,363; Dec. 28; Sp. p. 4991; Gaz. vol. 149; p. 878.
- Box-filling machine. J. C. Thom. No. 939,455; Nov. 9; Sp. p. 2242; Gaz. vol. 148; p. 372.
- Box-filling machines, Carrier for. A. B. Calkins. No. 916,667; Mar. 30; Sp. p. 6115; Gaz. vol. 140; p. 1095.
- Box-folding machine. E. W. Labombard. No. 915,971; Mar. 23; Sp. p. 4757; Gaz. vol. 140; p. 842.
- Box for berries, &c., Collapsible. O. C. Fenlason. No. 912,101; Feb. 9; Sp. p. 2208; Gaz. vol. 139; p. 382.
- Box for berries, &c., Collapsible veneer. O. C. Fenlason. No. 912,099; Feb. 9; Sp. p. 2203; Gaz. vol. 139; p. 381.
- Box for berries, &c., Collapsible veneer. O. C. Fenlason. No. 912,100; Feb. 9; Sp. p. 2206; Gaz. vol. 139; p. 381.
- Box for holding and transporting bottles. W. E. Rittler. No. 910,316; Jan. 19; Sp. p. 3854; Gaz. vol. 138; p. 694.
- Box for the display of articles contained therein. G. A. Durkee. No. 912,094; Feb. 9; Sp. p. 2197; Gaz. vol. 139; p. 380.
- Box-form, Adjustable. H. De Smith. No. 927,503; July 13; Sp. p. 1637; Gaz. vol. 144; p. 294.
- Box-handling attachment for shelves. J. R. Jones and H. W. Nicholes. No. 940,878; Nov. 23; Sp. p. 5388; Gaz. vol. 148; p. 913.
- Box-hanger and ground-clamp, Combined. S. Adelman. No. 910,765; Jan. 26; Sp. p. 4785; Gaz. vol. 138; p. 866.
- Box-lid fastener. G. C. Frazier. No. 922,122; May 18; Sp. p. 4167; Gaz. vol. 142; p. 728.
- Box-lid holder. T. F. Mayey. No. 913,021; Feb. 23; Sp. p. 4125; Gaz. vol. 139; p. 749.
- Box-lid holder. H. W. Morrow. No. 922,611; May 25; Sp. p. 5180; Gaz. vol. 142; p. 917.
- Box-lid holder. C. W. Ufford. No. 930,245; Aug. 3; Sp. p. 1280; Gaz. vol. 145; p. 210.
- Box-lid holder and box-opener. I. K. Berguam and C. Bierke. No. 914,919; Mar. 9; Sp. p. 2636; Gaz. vol. 140; p. 442.
- Box lid, Journal-. W. G. Dunham. No. 914,341; Mar. 2; Sp. p. 1451; Gaz. vol. 140; p. 226.
- Box lid, Service-. H. Mueller and A. C. Schuermann. No. 923,066; May 25; Sp. p. 6133; Gaz. vol. 142; p. 1064.
- Box-lid support. E. Oswald. No. 923,694; June 1; Sp. p. 1279; Gaz. vol. 143; p. 199.
- Box-lid support. N. H. Nielsen. No. 925,217; June 15; Sp. p. 4514; Gaz. vol. 143; p. 770.
- Box-lids in an open position, Means for supporting. C. Powell and J. Renwick. No. 928,697; July 20; Sp. p. 4147; Gaz. vol. 144; p. 722.
- Box lock, Carrier-. L. L. Savoy. No. 915,799; Mar. 23; Sp. p. 4429; Gaz. vol. 140; p. 786.
- Box-machine. W. T. McRae. No. 935,534; Sept. 28; Sp. p. 5153; Gaz. vol. 146; p. 905.
- Box-machine. W. T. McRae. No. 935,535; Sept. 28; Sp. p. 5158; Gaz. vol. 146; p. 906.
- Box-making machine. E. W. Myers. No. 913,837; Mar. 2; Sp. p. 325; Gaz. vol. 140; p. 56.
- Box-making machine. W. M. Gentle. No. 914,820; Mar. 9; Sp. p. 2442; Gaz. vol. 140; p. 410.
- Box-making machine. W. H. Holland. No. 919,866; Apr. 27; Sp. p. 5241; Gaz. vol. 141; p. 1065.
- Box-making machine. F. E. Slayter. No. 932,503; Aug. 31; Sp. p. 6080; Gaz. vol. 145; p. 1054.
- Box-making machine, Wire-bound-. R. G. Inwood and C. C. Chapman. No. 913,896; Mar. 2; Sp. p. 486; Gaz. vol. 140; p. 78.
- Box-opener. E. S. Savage. No. 915,701; Mar. 16; Sp. p. 4232; Gaz. vol. 140; p. 629.
- Box-opener. J. F. Schoettes. No. 924,193; June 8; Sp. p. 2396; Gaz. vol. 143; p. 392.
- Box-opener. E. J. Collette. No. 933,364; Sept. 7; Sp. p. 751; Gaz. vol. 144; p. 117.
- Box-opener. H. F. Wittig. No. 933,410; Sept. 7; Sp. p. 845; Gaz. vol. 146; p. 132.
- Box or can. F. Westerbeck. No. 936,841; Oct. 12; Sp. p. 2588; Gaz. vol. 147; p. 432.
- Box or carton. C. C. Palmer. No. 926,208; June 29; Sp. p. 6549; Gaz. vol. 143; p. 1158.
- Box or carton. G. B. Conley. No. 936,986; Oct. 12; Sp. p. 2867; Gaz. vol. 147; p. 479.
- Box or case. F. J. Kress. No. 939,272; Nov. 9; Sp. p. 1791; Gaz. vol. 148; p. 310.
- Box or case for cigarettes and like articles. J. Rheinberg. No. 919,952; Apr. 27; Sp. p. 6395; Gaz. vol. 141; p. 1092.
- Box or container. J. F. Byrne. No. 941,356; Nov. 30; Sp. p. 6417; Gaz. vol. 148; p. 1094.
- Box-packing machine, Stuffing-. R. R. Stirling. No. 910,598; Jan. 26; Sp. p. 4460; Gaz. vol. 138; p. 813.
- Box plane, Core-. C. E. Martin. No. 916,344; Mar. 23; Sp. p. 5435; Gaz. vol. 140; p. 965.
- Box press, Fruit-. N. T. Nelson. No. 933,660; Sept. 7; Sp. p. 1415; Gaz. vol. 146; p. 212.
- Box-retainer. J. K. P. Fine and A. H. Taft. No. 923,885; June 8; Sp. p. 1757; Gaz. vol. 143; p. 293.
- Box-seat, Folding. G. E. De Vore. No. 924,148; June 8; Sp. p. 2279; Gaz. vol. 143; p. 376.
- Box-shell-manufacturing machine. G. Primbs. No. 915,380; Mar. 16; Sp. p. 3555; Gaz. vol. 140; p. 620.
- Box-staying-machine folder. H. De Smith. No. 927,502; July 13; Sp. p. 1635; Gaz. vol. 144; p. 294.
- Box-strap and bale-tie. A. A. Patzlaft. No. 909,658; Jan. 12; Sp. p. 2472; Gaz. vol. 138; p. 438.
- Box-strap reel. A. Griesbeck. No. 931,294; Aug. 17; Sp. p. 3554; Gaz. vol. 145; p. 613.
- Box-strap-supply reel. C. W. Mitchell. No. 919,371; Apr. 27; Sp. p. 5179; Gaz. vol. 141; p. 898.
- Box-stuff planing and sizing machine. G. A. Smith. No. 918,604; Apr. 20; Sp. p. 3351; Gaz. vol. 141; p. 609.
- Box-top. W. H. Perkins. No. 928,793; July 20; Sp. p. 4332; Gaz. vol. 144; p. 754.
- Box top, Powder-. W. H. Perkins. No. 925,648; June 22; Sp. p. 5349; Gaz. vol. 143; p. 936.
- Boxes, Apparatus for forming cement. T. H. Williams. No. 922,651; May 25; Sp. p. 5261; Gaz. vol. 142; p. 930.
- Boxes for nailing, Machine for holding fruit-. R. T. Woodruff and A. A. Macy. No. 933,282; Sept. 7; Sp. p. 575; Gaz. vol. 146; p. 88.
- Boxes Machine for applying fastening devices to. C. O. Mason. No. 926,670; June 29; Sp. p. 7421; Gaz. vol. 143; p. 1309.
- Boxes, Machine for cutting finger-notches in. F. R. Harris. No. 916,442; Mar. 30; Sp. p. 5643; Gaz. vol. 140; p. 1022.
- Brace: See Ankle-brace; Bedstead-brace; Bit-brace; Body-brace; Brick-kiln brace; Car-brace; Dashboard-brace; Door-brace; Drill-brace; Fence-brace; Fence-post brace; Jack-brace; Mouth-brace; Plow-scraper brace; Pole-brace; Post-brace; Rail-brace; Railway-track brace; Ratchet-brace; Shoulder-brace; Shoulder and body brace; Track-brace; Vehicle-top joint-brace; Wagon-brace; Winker-brace.
- Brace-bit stock. J. F. Daniel. No. 915,562; Mar. 16; Sp. p. 3937; Gaz. vol. 140; p. 679.
- Brace fastener, Winker-. E. C. Headley. No. 912,313; Feb. 16; Sp. p. 2656; Gaz. vol. 139; p. 487.
- Bracelet. E. L. Anderson. No. 908,931; Jan. 5; Sp. p. 1026; Gaz. vol. 138; p. 165.
- Bracelet. R. H. Lewis. No. 918,175; Apr. 13; Sp. p. 2457; Gaz. vol. 141; p. 440.
- Bracelet. A. H. Bliss. No. 922,451; May 25; Sp. p. 4543; Gaz. vol. 142; p. 864.
- Bracelet-bag. C. O. Mason. No. 919,613; Apr. 27; Sp. p. 5706; Gaz. vol. 141; p. 981.
- Bracelet, Elastic link-. F. Speidel. No. 919,486; Apr. 27; Sp. p. 5441; Gaz. vol. 141; p. 937.
- Bracelet, Expandible. W. S. Thornton. No. 914,533; Mar. 9; Sp. p. 1854; Gaz. vol. 140; p. 315.
- Bracelet, Expandible. J. Bagnall. No. 926,089; June 29; Sp. p. 6290; Gaz. vol. 143; p. 1117.
- Bracket: See Adjustable bracket; Boiler-bracket; Bottle-bracket; Car-door bracket; Collapsible bracket; Curtain-bracket; Detachable bracket; Door check and closer bracket; Drop-light bracket; Electric-light bracket; Electrolier-bracket; Extensible bracket; Handle-bracket; Hay-rack bracket; Insulator-bracket; Ladder-bracket; Lamp-bracket; Paper-roll bracket; Pipe-bracket; Pump-bracket; Roof-bracket; Scaffold-bracket; Shade-bracket; Shade and curtain bracket; Shade and window bracket; Shade-roller bracket; Shelf-bracket; Shingle bracket; Shoe-shining bracket; Sink or shelf bracket; Type-case bracket; Wall-bracket; Whip-socket bracket; Window-bracket.
- Bracket. J. Berberck. No. 912,789; Feb. 16; Sp. p. 3700; Gaz. vol. 139; p. 650.
- Bracket. H. Zimmerman. No. 914,774; Mar. 9; Sp. p. 2359; Gaz. vol. 140; p. 396.



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- Bracket. F. A. Potter and A. Louis. No. 914,974; Mar. 9; Sp. p. 2729; Gaz. vol. 140; p. 459.  
 Bracket. G. R. Cockrum. No. 919,421; Apr. 27; Sp. p. 5282; Gaz. vol. 141; p. 914.  
 Bracket. R. W. Hubbard. No. 921,704; May 18; Sp. p. 3322; Gaz. vol. 142; p. 591.  
 Bracket. F. J. Moran. No. 934,414; Sept. 14; Sp. p. 2908; Gaz. vol. 146; p. 486.  
 Bracket. F. E. Walden. No. 936,061; Oct. 5; Sp. p. 979; Gaz. vol. 147; p. 147.  
 Bracket-device. H. S. Mills. No. 930,209; Aug. 3; Sp. p. 1211; Gaz. vol. 145; p. 199.  
 Bracket-support. A. G. Crago. No. 914,387; Mar. 9; Sp. p. 1574; Gaz. vol. 140; p. 267.  
 Braid, cord making, and similar machines. Carrier for. A. Petersen. No. 931,083; Aug. 17; Sp. p. 3077; Gaz. vol. 145; p. 540.  
 Braids and trimmings, Machine for making. J. E. Kirberg. No. 928,461; July 20; Sp. p. 3667; Gaz. vol. 144; p. 646.  
 Braids and trimmings, Machine for making. J. E. Kirberg. No. 928,462; July 20; Sp. p. 3671; Gaz. vol. 144; p. 646.  
 Braided fabric. F. Thun and W. J. Lücke. No. 936,492; Oct. 12; Sp. p. 1893; Gaz. vol. 147; p. 313.  
 Braided fabric and making it. H. Z. Cobb. No. 937,021; Oct. 12; Sp. p. 2946; Gaz. vol. 147; p. 490.  
 Braiding-machine. W. N. Edwards. No. 917,424; Apr. 6; Sp. p. 934; Gaz. vol. 141; p. 162.  
 Braiding-machine. G. W. Sears. No. 920,189; May 4; Sp. p. 191; Gaz. vol. 142; p. 30.  
 Braiding-machine. W. T. Le Blanc. No. 920,589; May 4; Sp. p. 1005; Gaz. vol. 142; p. 164.  
 Braiding-machine. O. Praute. No. 920,994; May 11; Sp. p. 1835; Gaz. vol. 142; p. 325.  
 Braiding-machine. R. C. Rahm. No. 933,339; Sept. 7; Sp. p. 692; Gaz. vol. 146; p. 107.  
 Braiding-machine. R. C. Rahm. No. 933,341; Sept. 7; Sp. p. 694; Gaz. vol. 146; p. 108.  
 Braiding-machine. R. C. Rahm. No. 936,356; Oct. 12; Sp. p. 1566; Gaz. vol. 147; p. 268.  
 Braiding-machine. R. C. Rahm. No. 936,357; Oct. 12; Sp. p. 1567; Gaz. vol. 147; p. 268.  
 Braiding-machine. A. E. Chernack. No. 939,216; Nov. 9; Sp. p. 1651; Gaz. vol. 148; p. 291.  
 Braiding-machine. E. F. Parks and S. W. Wardwell. No. 939,622; Nov. 9; Sp. p. 2602; Gaz. vol. 148; p. 428.  
 Braiding-machine. Sectional. R. C. Rahm. No. 933,340; Sept. 7; Sp. p. 693; Gaz. vol. 146; p. 108.  
 Braiding-machines, &c., Carrier for. A. Petersen. No. 931,084; Aug. 17; Sp. p. 3079; Gaz. vol. 145; p. 540.  
 Braiding-machines, Movable racer of. W. N. Edwards. No. 926,106; June 29; Sp. p. 6323; Gaz. vol. 143; p. 1122.  
 Brake. *See* Air-brake; Automobile-brake; Back-pedaling coaster-brake; Band-brake; Car-brake; Car emergency-brake; Car hand-brake; Carriage foot-brake; Caster-brake; Coaster-brake; Cornice-brake; Duplex pressure-brake; Electric brake; Electrical clutch and brake; Electrically-operated brake; Elevator-brake; Elevator-safety-brake; Emergency-brake; Fluid-brake; Fluid-pressure brake; Friction-brake; Hemp-brake; High-speed brake; Hydraulic brake; Load-brake; Mechanical brake; Perambulator-brake; Printing-press brake; Rail-brake; Railway-brake; Railway-vehicle brake; Sheet-metal brake; Ship-brake; Skate-brake; Sled-brake; Truck-brake; Turbine automatic brake; Valve-device brake; Vehicle-brake; Vehicle automatic brake; Vehicle pneumatic brake; Wagon-brake; Wagon-wheel brake; Wheel-brake.  
 Brake. M. Lingenfelter. No. 910,553; Jan. 26; Sp. p. 4347; Gaz. vol. 138; p. 798.  
 Brake. R. R. Stein. No. 913,781; Mar. 2; Sp. p. 223; Gaz. vol. 140; p. 37.  
 Brake. W. H. Balch. No. 916,908; Mar. 30; Sp. p. 6564; Gaz. vol. 140; p. 1170.  
 Brake. W. S. Adams. No. 919,671; Apr. 27; Sp. p. 5827; Gaz. vol. 141; p. 1000.  
 Brake. T. Muir. No. 923,987; June 8; Sp. p. 1961; Gaz. vol. 143; p. 325.  
 Brake. J. F. Cummings. No. 925,304; June 15; Sp. p. 4663; Gaz. vol. 143; p. 796.  
 Brake. W. S. Adams. No. 926,920; July 6; Sp. p. 452; Gaz. vol. 144; p. 73.  
 Brake. R. E. Rudolph. No. 930,234; Aug. 3; Sp. p. 1256; Gaz. vol. 145; p. 207.  
 Brake. E. Herold. No. 940,461; Nov. 16; Sp. p. 4486; Gaz. vol. 148; p. 750.  
 Brake-actuating mechanism. P. Musselman. No. 918,463; Apr. 13; Sp. p. 3041; Gaz. vol. 141; p. 534.  
 Brake-actuating mechanism, Vehicle-. G. E. Kidd. No. 925,195; June 15; Sp. p. 4466; Gaz. vol. 143; p. 762.  
 Brake apparatus. S. G. Freund. No. 912,459; Feb. 16; Sp. p. 2961; Gaz. vol. 139; p. 536.  
 Brake apparatus, Fluid-pressure. M. Corington. No. 941,914; Nov. 30; Sp. p. 7618; Gaz. vol. 148; p. 1283.  
 Brake apparatus, Limit-stop. A. Sundh. No. 926,620; June 29; Sp. p. 7327; Gaz. vol. 143; p. 1292.  
 Brake-applying device, Automatic. E. P. Jessop. No. 936,905; Oct. 12; Sp. p. 2715; Gaz. vol. 147; p. 453.  
 Brake-applying mechanism, Automatic. F. A. Pierce. No. 931,798; Aug. 24; Sp. p. 4609; Gaz. vol. 145; p. 799.  
 Brake attachment, Automobile-. J. H. Reifsnyder. No. 935,927; Oct. 5; Sp. p. 700; Gaz. vol. 147; p. 103.  
 Brake-beam. R. H. Thompson. No. 914,530; Mar. 9; Sp. p. 1544; Gaz. vol. 140; p. 314.  
 Brake-beam. E. H. Bauer. No. 921,344; May 11; Sp. p. 2585; Gaz. vol. 142; p. 445.  
 Brake-beam. H. Ziems, Jr. No. 923,475; June 1; Sp. p. 812; Gaz. vol. 143; p. 123.  
 Brake-beam. E. I. Dodds. No. 926,395; June 29; Sp. p. 6913; Gaz. vol. 143; p. 1217.  
 Brake-beam. C. H. Williams, Jr. No. 938,535; Nov. 2; Sp. p. 217; Gaz. vol. 148; p. 31.  
 Brake-beam. H. Ziems, Jr. No. 940,417; Nov. 16; Sp. p. 4594; Gaz. vol. 148; p. 735.  
 Brake-beam. C. F. Huntoon. No. 943,021; Dec. 14; Sp. p. 2140; Gaz. vol. 149; p. 367.  
 Brake-beam detector. C. H. Williams, Jr. No. 931,005; Aug. 10; Sp. p. 2886; Gaz. vol. 145; p. 485.  
 Brake-beam finger-guard. W. E. Fowler, Jr. No. 919,565; Apr. 27; Sp. p. 5609; Gaz. vol. 141; p. 964.  
 Brake-beam hanger. S. S. Underwood. No. 942,985; Dec. 14; Sp. p. 2047; Gaz. vol. 149; p. 355.  
 Brake-cover. J. F. Cummings. No. 935,466; Sept. 28; Sp. p. 4999; Gaz. vol. 146; p. 883.  
 Brake-equalizer. W. G. Ransom. No. 935,926; Oct. 5; Sp. p. 698; Gaz. vol. 147; p. 102.  
 Brake-equalizing mechanism. F. D. Thomason. No. 944,058; Dec. 21; Sp. p. 4355; Gaz. vol. 149; p. 751.  
 Brake-handle. G. W. Rigney and S. J. Hanlin. No. 934,935; Sept. 21; Sp. p. 3944; Gaz. vol. 146; p. 684.  
 Brake-hanger. C. H. Knobs. No. 916,453; Mar. 30; Sp. p. 5674; Gaz. vol. 140; p. 1026.  
 Brake-hanger. W. S. Adams. No. 935,831; Oct. 5; Sp. p. 498; Gaz. vol. 147; p. 71.  
 Brake-hanger. S. M. Curwen. No. 937,512; Oct. 19; Sp. p. 4016; Gaz. vol. 147; p. 682.  
 Brake-hanger, Car-truck. J. H. Baker. No. 919,676; Apr. 27; Sp. p. 5836; Gaz. vol. 141; p. 1002.  
 Brake-hanger, Non-chattering. A. E. Zimmer. No. 910,160; Jan. 19; Sp. p. 3474; Gaz. vol. 138; p. 636.  
 Brake-head. J. M. Coleman. No. 920,434; May 4; Sp. p. 700; Gaz. vol. 142; p. 110.  
 Brake-head. W. E. Fowler, Jr. No. 920,944; May 11; Sp. p. 1742; Gaz. vol. 142; p. 309.  
 Brake-head. S. J. Strid. No. 926,299; June 29; Sp. p. 6729; Gaz. vol. 143; p. 1186.  
 Brake-head. A. Waycott. No. 944,526; Dec. 28; Sp. p. 5386; Gaz. vol. 149; p. 937.  
 Brake-head, Adjustable. W. E. Fowler, Jr. No. 937,930; Oct. 26; Sp. p. 4861; Gaz. vol. 147; p. 839.  
 Brake-head, Adjustable. W. A. Robischung. No. 939,094; Nov. 2; Sp. p. 1367; Gaz. vol. 148; p. 223.  
 Brake-head, Car. W. E. Fowler, Jr. No. 920,945; May 11; Sp. p. 1745; Gaz. vol. 142; p. 310.  
 Brake-lever. J. H. McClaren. No. 912,595; Feb. 16; Sp. p. 3249; Gaz. vol. 139; p. 583.  
 Brake-lever. J. and W. Connell. No. 930,045; Aug. 3; Sp. p. 888; Gaz. vol. 145; p. 143.  
 Brake-lever, Engine-moving. J. A. Taylor. No. 943,715; Dec. 21; Sp. p. 3644; Gaz. vol. 149; p. 633.  
 Brake-lever mechanism for carts and wagons. G. Manlove. No. 944,801; Dec. 28; Sp. p. 5972; Gaz. vol. 149; p. 1029.  
 Brake-mast. H. C. Ostermann. No. 939,076; Nov. 2; Sp. p. 1332; Gaz. vol. 148; p. 217.  
 Brake mechanism. G. S. Ackley. No. 910,633; Jan. 26; Sp. p. 4523; Gaz. vol. 138; p. 824.  
 Brake mechanism. A. Larsen. No. 926,578; June 29; Sp. p. 7235; Gaz. vol. 143; p. 1279.  
 Brake mechanism. G. E. Titcomb. No. 926,625; June 29; Sp. p. 7335; Gaz. vol. 143; p. 1294.  
 Brake mechanism. C. A. Burke. No. 927,941; July 13; Sp. p. 2588; Gaz. vol. 144; p. 441.  
 Brake mechanism. B. J. Hinkelbein. No. 935,152; Sept. 28; Sp. p. 4383; Gaz. vol. 146; p. 782.  
 Brake mechanism. E. Santsche. No. 944,151; Dec. 21; Sp. p. 4554; Gaz. vol. 149; p. 781.  
 Brake mechanism, Load-regulated. H. H. Forney and O. B. Schoenky. No. 920,310; May 4; Sp. p. 461; Gaz. vol. 142; p. 71.  
 Brake-operating device. O. Pfänder. No. 920,643; May 4; Sp. p. 1109; Gaz. vol. 142; p. 181.  
 Brake-rod coupling-jaws. G. F. Hinkens. No. 936,453; Oct. 12; Sp. p. 1806; Gaz. vol. 147; p. 300.  
 Brake-safety device, Car-. H. S. Foster. No. 927,847; July 13; Sp. p. 2390; Gaz. vol. 144; p. 409.  
 Brake-shoe. J. F. Norman. No. 909,015; Jan. 5; Sp. p. 1195; Gaz. vol. 138; p. 191.  
 Brake-shoe. G. A. Woodman. No. 909,271; Jan. 12; Sp. p. 1711; Gaz. vol. 138; p. 308.  
 Brake-shoe. H. Lewis. No. 909,431; Jan. 12; Sp. p. 2021; Gaz. vol. 138; p. 360.  
 Brake-shoe. A. L. Streeter. No. 909,704; Jan. 12; Sp. p. 2561; Gaz. vol. 138; p. 454.  
 Brake-shoe. R. L. Brown. No. 910,494; Jan. 26; Sp. p. 4232; Gaz. vol. 138; p. 778.  
 Brake-shoe. W. B. Goodwin. No. 911,393; Feb. 2; Sp. p. 722; Gaz. vol. 139; p. 125.  
 Brake-shoe. C. S. Shallenberger. No. 915,119; Mar. 16; Sp. p. 3032; Gaz. vol. 140; p. 535.  
 Brake-shoe. W. O. Stark. No. 918,605; Apr. 20; Sp. p. 3354; Gaz. vol. 141; p. 609.  
 Brake-shoe. C. W. Armbrust. No. 919,518; Apr. 27; Sp. p. 5515; Gaz. vol. 141; p. 947.  
 Brake-shoe. B. Péducasse. No. 923,572; June 1; Sp. p. 1024; Gaz. vol. 143; p. 157.  
 Brake-shoe. C. D. Pettis. No. 924,930; June 15; Sp. p. 3932; Gaz. vol. 143; p. 672.  
 Brake-shoe. C. D. Pettis. No. 925,837; June 22; Sp. p. 5773; Gaz. vol. 143; p. 999.

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- Brake-shoe. A. C. Vauclain. No. 934,775; Sept. 21; Sp. p. 3615; Gaz. vol. 146; p. 680.  
 Brake-shoe. C. D. Pettis. No. 935,053; Sept. 28; Sp. p. 4184; Gaz. vol. 146; p. 749.  
 Brake-shoe. C. B. McPhillips. No. 942,343; Dec. 7; Sp. p. 665; Gaz. vol. 149; p. 106.  
 Brake-shoe. J. F. Beatty. No. 943,730; Dec. 21; Sp. p. 3671; Gaz. vol. 149; p. 638.  
 Brake-shoe. A. H. Reid. No. 943,995; Dec. 21; Sp. p. 4235; Gaz. vol. 149; p. 729.  
 Brake-shoe. H. H. Malister. No. 944,573; Dec. 28; Sp. p. 5489; Gaz. vol. 149; p. 953.  
 Brake-shoe adjuster. O. S. McCurdy. No. 931,212; Aug. 17; Sp. p. 3360; Gaz. vol. 145; p. 584.  
 Brake-shoe adjuster. O. S. McCurdy. No. 935,804; Oct. 5; Sp. p. 421; Gaz. vol. 147; p. 62.  
 Brake-shoe, Interlocking. H. Jones. No. 942,329; Dec. 7; Sp. p. 636; Gaz. vol. 149; p. 102.  
 Brake-shoe key. O. G. Seaman. No. 910,425; Jan. 19; Sp. p. 4077; Gaz. vol. 138; p. 730.  
 Brake-shoe key. C. N. Smith. No. 941,107; Nov. 23; Sp. p. 5869; Gaz. vol. 148; p. 989.  
 Brake-shoes, Forming steel backs for. H. Jones. No. 926,875; July 6; Sp. p. 359; Gaz. vol. 144; p. 57.  
 Brake slack-adjuster, Automatic. R. F. Hamilton. No. 939,018; Nov. 2; Sp. p. 1225; Gaz. vol. 148; p. 195.  
 Brake system, Automatic. W. U. G. Shaw and O. Johnson. No. 925,137; June 15; Sp. p. 4351; Gaz. vol. 143; p. 742.  
 Brake system, Fluid-pressure. W. H. Sauvage. No. 934,019; Sept. 14; Sp. p. 2138; Gaz. vol. 146; p. 353.  
 Brake system, Fluid-pressure. J. A. Hicks. No. 944,485; Dec. 28; Sp. p. 5267; Gaz. vol. 149; p. 921.  
 Brake system, Fluid-pressure. J. A. Hicks. No. 944,486; Dec. 28; Sp. p. 5277; Gaz. vol. 149; p. 922.  
 Brakes, Accelerator for continuous pneumatic. F. J. Chapsal and A. L. E. Saillet. No. 929,551; July 27; Sp. p. 5876; Gaz. vol. 144; p. 1032.  
 Brakes, Apparatus for adjusting railway-vehicle and like. V. Chaveriat. No. 920,540; May 4; Sp. p. 905; Gaz. vol. 142; p. 146.  
 Braking device. V. Lamb. No. 915,031; Mar. 9; Sp. p. 2623; Gaz. vol. 140; p. 478.  
 Braking mechanism. P. N. Jones. No. 914,284; Mar. 2; Sp. p. 1340; Gaz. vol. 140; p. 207.  
 Braking mechanism. J. P. Callahan. No. 934,425; Sept. 21; Sp. p. 2941; Gaz. vol. 146; p. 513.  
 Braking or signaling system, Automatic. F. H. Shepard. No. 910,590; Jan. 26; Sp. p. 4444; Gaz. vol. 138; p. 810.  
 Branding appliance, Self-heating adjustable cattle. W. G. Landells. No. 926,881; July 6; Sp. p. 365; Gaz. vol. 144; p. 59.  
 Branding-machine. W. J. Green. No. 913,884; Mar. 2; Sp. p. 455; Gaz. vol. 140; p. 74.  
 Brass-polishing device. C. E. Merrill. No. 913,414; Feb. 23; Sp. p. 4915; Gaz. vol. 139; p. 881.  
 Bread and cake box. J. L. Le Munyon. No. 916,729; Mar. 30; Sp. p. 6222; Gaz. vol. 140; p. 1114.  
 Bread-box. R. W. Jorres. No. 933,711; Sept. 7; Sp. p. 1532; Gaz. vol. 146; p. 231.  
 Bread-box. O. L. Thompson and E. E. Morrison. No. 936,957; Oct. 12; Sp. p. 2821; Gaz. vol. 147; p. 470.  
 Bread-cabinet and cutting-knife, Combined. P. Nelson. No. 914,866; Mar. 9; Sp. p. 2550; Gaz. vol. 140; p. 426.  
 Bread-cutter. G. Kawasaki. No. 937,611; Oct. 19; Sp. p. 4200; Gaz. vol. 147; p. 715.  
 Bread-cutting machine. G. Jendras. No. 932,555; Aug. 31; Sp. p. 6188; Gaz. vol. 145; p. 1073.  
 Bread-cutting machine. M. J. Ferren. No. 941,065; Nov. 23; Sp. p. 5781; Gaz. vol. 148; p. 976.  
 Bread, &c., Machine for use in the manufacture of plain. S. McConnell and J. E. Wilson. No. 943,364; Dec. 14; Sp. p. 2865; Gaz. vol. 149; p. 482.  
 Bread, Making albuminous. G. Hess. No. 911,722; Feb. 9; Sp. p. 1390; Gaz. vol. 139; p. 259.  
 Bread, Making albuminous. O. Müller. No. 911,745; Feb. 9; Sp. p. 1426; Gaz. vol. 139; p. 265.  
 Bread-mixing machine. E. Mechlin. No. 936,920; Oct. 12; Sp. p. 2743; Gaz. vol. 147; p. 458.  
 Bread-pans. J. E. Leamann. No. 917,622; Apr. 6; Sp. p. 1283; Gaz. vol. 141; p. 227.  
 Bread-raiser. J. M. McIntosh. No. 931,075; Aug. 17; Sp. p. 3065; Gaz. vol. 145; p. 537.  
 Bread-roll. P. S. Wood. No. 943,586; Dec. 14; Sp. p. 3310; Gaz. vol. 149; p. 558.  
 Bread-slicer. J. R. Crouch and N. H. Turbyfill. No. 912,290; Feb. 16; Sp. p. 2612; Gaz. vol. 139; p. 480.  
 Breaker and alarm, Vacuum. B. W. Hill. No. 912,243; Feb. 9; Sp. p. 2467; Gaz. vol. 139; p. 425.  
 Breast-drill. J. G. Smith and J. C. McGregor. No. 913,172; Feb. 23; Sp. p. 4434; Gaz. vol. 139; p. 800.  
 Breast-drill. G. O. Leopold. No. 917,319; Apr. 6; Sp. p. 746; Gaz. vol. 141; p. 127.  
 Breast-drill and valve-grinder, Combined. J. R. Sandberg. No. 930,620; Aug. 10; Sp. p. 2052; Gaz. vol. 145; p. 360.  
 Breast-strap and neck-strap connection. E. J. Hoffman. No. 924,780; June 15; Sp. p. 3626; Gaz. vol. 143; p. 622.  
 Breast-strap attachment, Hame. H. M. Dingsley. No. 919,555; Apr. 27; Sp. p. 5585; Gaz. vol. 141; p. 960.  
 Breach-closure. M. Hermsdorf. No. 927,855; July 13; Sp. p. 2404; Gaz. vol. 144; p. 411.  
 Breach-closure. M. Hermsdorf. No. 932,017; Aug. 24; Sp. p. 5092; Gaz. vol. 145; p. 871.  
 Breaching-strap fastener. L. C. Freeman. No. 920,315; May 4; Sp. p. 468; Gaz. vol. 142; p. 73.  
 Breweries and bottling establishments, Pipe-line system for. C. L. Bastian. No. 934,879; Sept. 21; Sp. p. 3826; Gaz. vol. 146; p. 664.  
 Brewery pitching-machine apparatus. E. Moxham. No. 925,126; June 15; Sp. p. 4330; Gaz. vol. 143; p. 738.  
 Brewing. M. Henius. No. 925,700; June 22; Sp. p. 5441; Gaz. vol. 143; p. 952.  
 Brewing, distilling, &c. S. Armstrong. No. 915,150; Mar. 16; Sp. p. 3106; Gaz. vol. 140; p. 545.  
 Brick-anchor. C. A. Londelius. No. 927,563; July 13; Sp. p. 1758; Gaz. vol. 144; p. 314.  
 Brick and block mold. C. W. Jones. No. 925,703; June 22; Sp. p. 5449; Gaz. vol. 143; p. 953.  
 Brick and the like and producing the same, Composition of matter for use in fire-. L. Houze. No. 921,838; May 18; Sp. p. 3612; Gaz. vol. 142; p. 687.  
 Brick and tile cutting-table. J. S. Smith. No. 924,113; June 8; Sp. p. 2181; Gaz. vol. 143; p. 364.  
 Brick and tile, Enamelled. J. H. Jackson. No. 919,018; Apr. 20; Sp. p. 4278; Gaz. vol. 141; p. 748.  
 Brick-burning apparatus. W. B. Chapman. No. 933,419; Sept. 7; Sp. p. 862; Gaz. vol. 146; p. 135.  
 Brick-cutting machine. J. O. Ludlam and C. F. Bonnot. No. 917,630; Apr. 6; Sp. p. 1299; Gaz. vol. 141; p. 229.  
 Brick-cutting machine. J. C. Ross. No. 927,878; July 13; Sp. p. 2448; Gaz. vol. 144; p. 419.  
 Brick-cutting machine. W. R. Hasselback. No. 943,541; Dec. 14; Sp. p. 3233; Gaz. vol. 149; p. 544.  
 Brick-drying apparatus. W. F. Decker. No. 923,340; June 1; Sp. p. 531; Gaz. vol. 143; p. 76.  
 Brick-drying rack. E. H. Callaway. No. 926,924; July 6; Sp. p. 456; Gaz. vol. 144; p. 74.  
 Brick, Facing-. J. N. McQuern. No. 938,430; Oct. 26; Sp. p. 5954; Gaz. vol. 147; p. 1009.  
 Brick-glazing compound. H. and J. Ohlsen. No. 921,879; May 18; Sp. p. 3685; Gaz. vol. 142; p. 649.  
 Brick-handling machine. W. H. Francis. (Reissue.) No. 13,022; Sept. 28; Sp. p. 5349; Gaz. vol. 146; p. 939.  
 Brick-kiln. L. H. Reppell. No. 915,309; Mar. 16; Sp. p. 3412; Gaz. vol. 140; p. 596.  
 Brick-kiln. W. Gibford. No. 925,432; June 15; Sp. p. 4901; Gaz. vol. 143; p. 836.  
 Brick-kiln brace. A. Perusse. No. 944,104; Dec. 21; Sp. p. 4442; Gaz. vol. 149; p. 766.  
 Brick-machine. S. E. Drummond. No. 924,972; June 15; Sp. p. 4033; Gaz. vol. 143; p. 687.  
 Brick-machine. G. M. Griswold. No. 928,913; July 20; Sp. p. 4579; Gaz. vol. 144; p. 797.  
 Brick-machine. P. J. Mead. No. 940,177; Nov. 16; Sp. p. 3836; Gaz. vol. 148; p. 651.  
 Brick-machine. C. M. Starr. No. 940,623; Nov. 16; Sp. p. 4817; Gaz. vol. 148; p. 803.  
 Brick-machine, indenting. H. K. King. No. 944,442; Dec. 28; Sp. p. 5169; Gaz. vol. 149; p. 907.  
 Brick-machine, Multimolding two-side-delivery hand. F. H. Folden. No. 917,036; Apr. 6; Sp. p. 152; Gaz. vol. 141; p. 29.  
 Brick, Making. O. S. Davis. No. 924,745; June 15; Sp. p. 3555; Gaz. vol. 143; p. 610.  
 Brick masonry, Reinforced. N. Ellery. No. 917,028; Apr. 6; Sp. p. 141; Gaz. vol. 141; p. 27.  
 Brick, Mechanism for cutting wire-cut. F. B. Dunn. No. 933,536; Sept. 7; Sp. p. 1187; Gaz. vol. 146; p. 172.  
 Brick-mold. C. S. Wert. No. 910,621; Jan. 26; Sp. p. 4503; Gaz. vol. 138; p. 821.  
 Brick molding and pressing machine. O. M. Reif. No. 910,724; Jan. 26; Sp. p. 4686; Gaz. vol. 138; p. 852.  
 Brick-molding machine. C. Simpson. No. 931,154; Aug. 17; Sp. p. 3233; Gaz. vol. 145; p. 564.  
 Brick-press. J. I. Cross. No. 917,851; Apr. 13; Sp. p. 1783; Gaz. vol. 141; p. 327.  
 Brick-press. A. and J. Berg. No. 932,674; Aug. 31; Sp. p. 6454; Gaz. vol. 145; p. 1113.  
 Brick-press. S. J. Pink. No. 938,699; Nov. 2; Sp. p. 552; Gaz. vol. 148; p. 86.  
 Brick-press. W. C. Short. No. 943,797; Dec. 21; Sp. p. 3799; Gaz. vol. 149; p. 661.  
 Brick-press off-bearing attachment. W. R. Cunningham. No. 927,834; July 13; Sp. p. 2352; Gaz. vol. 144; p. 405.  
 Brick-pressing die. C. E. Simpson. No. 916,796; Mar. 30; Sp. p. 6338; Gaz. vol. 140; p. 1132.  
 Brick-setting frame. R. C. Penfield. No. 937,955; Oct. 26; Sp. p. 4906; Gaz. vol. 147; p. 848.  
 Brick-speckling machine. J. D. Martin. No. 937,706; Oct. 19; Sp. p. 4391; Gaz. vol. 147; p. 745.  
 Brick-spreader pallet and truck therefor. W. Friberg. No. 914,262; Mar. 2; Sp. p. 1295; Gaz. vol. 140; p. 201.  
 Brick-stroking-off machine. H. C. Kunkle. No. 944,447; Dec. 28; Sp. p. 5177; Gaz. vol. 149; p. 908.  
 Brick, Vitrified paving-. K. Langenbeck. No. 937,822; Oct. 26; Sp. p. 4634; Gaz. vol. 147; p. 803.  
 Brick, Wire-cut. F. B. Dunn. No. 918,980; Apr. 20; Sp. p. 4216; Gaz. vol. 141; p. 736.  
 Bricklaying-machine. M. Falcone. No. 941,137; Nov. 23; Sp. p. 5947; Gaz. vol. 148; p. 1000.  
 Brickmaking-machine. O. G. Diefendorf. No. 930,053; Aug. 3; Sp. p. 911; Gaz. vol. 145; p. 146.  
 Bridge. J. A. Atwood. No. 915,261; Mar. 16; Sp. p. 3323; Gaz. vol. 140; p. 580.  
 Bridge. O. Thomas. No. 926,034; June 22; Sp. p. 6161; Gaz. vol. 143; p. 1064.  
 Bridge. J. F. Kaspar. No. 940,326; Nov. 16; Sp. p. 4174; Gaz. vol. 148; p. 704.



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- Bridge construction. J. D. Luttrell. No. 932,483; Aug. 31; Sp. p. 6038; Gaz. vol. 145; p. 1048.  
 Bridge construction, Concrete-. W. M. Thomas. No. 915,316; Mar. 16; Sp. p. 3424; Gaz. vol. 140; p. 598.  
 Bridge, Lift-. E. Swensson. No. 911,628; Feb. 9; Sp. p. 1197; Gaz. vol. 139; p. 227.  
 Bridge, Lift-. J. A. L. Waddell and J. L. Harrington. No. 932,359; Aug. 24; Sp. p. 5764; Gaz. vol. 145; p. 984.  
 Bridge or arch of concrete or other analogous materials. D. B. Luten. No. 923,058; May 25; Sp. p. 6108; Gaz. vol. 142; p. 1061.  
 Bridges, pillars, &c., Compressive and tensile bar for. W. Lübbecke. No. 908,587; Jan. 5; Sp. p. 331; Gaz. vol. 138; p. 54.  
 Bridle. O. B. Foster. No. 912,300; Feb. 16; Sp. p. 2632; Gaz. vol. 139; p. 483.  
 Bridle and throat-latch snap. B. L. Miller. No. 912,014; Feb. 9; Sp. p. 2036; Gaz. vol. 139; p. 354.  
 Bridle-bit. J. Cummings. No. 909,160; Jan. 12; Sp. p. 1507; Gaz. vol. 138; p. 273.  
 Bridle-bit. N. W. Bennett. No. 930,827; Aug. 10; Sp. p. 2470; Gaz. vol. 145; p. 427.  
 Bridle-blind. H. H. Brandes. No. 921,072; May 11; Sp. p. 2004; Gaz. vol. 142; p. 352.  
 Bridle-blind. F. T. Moore. No. 923,289; June 1; Sp. p. 411; Gaz. vol. 143; p. 58.  
 Bridle crown-piece. J. T. Hegland. No. 923,517; June 1; Sp. p. 900; Gaz. vol. 143; p. 137.  
 Bridle-irons or stirrup or joist hangers, Machine for shaping. W. Hansen. No. 934,168; Sept. 14; Sp. p. 2452; Gaz. vol. 146; p. 403.  
 Bridle-rosette. C. C. Bailey. No. 927,925; July 13; Sp. p. 2560; Gaz. vol. 144; p. 435.  
 Bridle, Safety-. H. P. Mattson. No. 910,703; Jan. 26; Sp. p. 4650; Gaz. vol. 138; p. 845.  
 Bridle winker-strap. T. J. Steen. No. 913,577; Feb. 23; Sp. p. 5285; Gaz. vol. 139; p. 936.  
 Brine-cooler. B. Walter. No. 937,344; Oct. 19; Sp. p. 3637; Gaz. vol. 147; p. 625.  
 Brine-cooling apparatus. G. F. Dickson. No. 931,687; Aug. 17; Sp. p. 4326; Gaz. vol. 145; p. 739.  
 Briquet-machine. F. Burnes. No. 915,332; Mar. 16; Sp. p. 3461; Gaz. vol. 140; p. 603.  
 Briquet-machine. D. E. Bangs. No. 916,827; Mar. 30; Sp. p. 6393; Gaz. vol. 140; p. 1143.  
 Briquet-press. O. Zimmermann. No. 911,104; Feb. 2; Sp. p. 153; Gaz. vol. 139; p. 29.  
 Briquets, Treating. B. Wagner. No. 908,912; Jan. 5; Sp. p. 992; Gaz. vol. 138; p. 158.  
 Briquetting-machine. F. H. Elsworth and C. L. Dowell. No. 940,959; Nov. 23; Sp. p. 5556; Gaz. vol. 148; p. 941.  
 Bristle-bunching machine. H. H. Cummings. No. 927,832; July 13; Sp. p. 2345; Gaz. vol. 144; p. 404.  
 Bristle-drying machine. E. R. Zehner. No. 938,542; Nov. 2; Sp. p. 234; Gaz. vol. 148; p. 34.  
 Broiler. B. McCaughey. No. 914,159; Mar. 2; Sp. p. 1068; Gaz. vol. 140; p. 170.  
 Broiler. B. McCaughey. No. 915,105; Mar. 16; Sp. p. 3005; Gaz. vol. 140; p. 530.  
 Broiler. L. Fey. No. 923,348; June 1; Sp. p. 555; Gaz. vol. 143; p. 80.  
 Broiler. M. M. Dresdner. No. 943,593; Dec. 14; Sp. p. 3327; Gaz. vol. 149; p. 561.  
 Brominated beta-naphthylindigo. A. Schmidt and R. Voss. No. 932,334; Aug. 24; Sp. p. 5723; Gaz. vol. 145; p. 976.  
 Bromisovaleric ester of the borneols. M. Dohrn. No. 930,054; Aug. 3; Sp. p. 913; Gaz. vol. 145; p. 147.  
 Bronzing-machine. H. Lamberger. No. 916,330; Mar. 23; Sp. p. 5405; Gaz. vol. 140; p. 960.  
 Bronzing-machine. W. E. Houghland. No. 944,192; Dec. 21; Sp. p. 4631; Gaz. vol. 149; p. 794.  
 Brooch or the like. C. G. Armstrong. No. 920,517; May 4; Sp. p. 860; Gaz. vol. 142; p. 139.  
 Brooder. J. F. and W. D. Craig. No. 913,813; Mar. 2; Sp. p. 282; Gaz. vol. 140; p. 48.  
 Brooder. G. H. Lee. No. 918,174; Apr. 13; Sp. p. 2455; Gaz. vol. 141; p. 440.  
 Brooder. A. Noble. No. 934,206; Sept. 14; Sp. p. 2519; Gaz. vol. 146; p. 415.  
 Brooder. A. J. Blowers. No. 942,769; Dec. 7; Sp. p. 1524; Gaz. vol. 149; p. 250.  
 Brooder, Chicken-. H. G. Hoops. No. 911,500; Feb. 2; Sp. p. 905; Gaz. vol. 139; p. 158.  
 Brooder, Chicken-. F. P. Huffman. No. 911,990; Feb. 9; Sp. p. 1975; Gaz. vol. 139; p. 346.  
 Brooder, Fireless. E. S. Adams. No. 930,915; Aug. 10; Sp. p. 2668; Gaz. vol. 145; p. 457.  
 Brooder-heater. J. C. Nicholls. No. 914,171; Mar. 2; Sp. p. 1114; Gaz. vol. 140; p. 174.  
 Brooder or coop, Chicken. E. M. Seizer. No. 944,918; Dec. 28; Sp. p. 6221; Gaz. vol. 149; p. 1069.  
 Brooder or foster-mother for chickens. R. Miller. No. 908,795; Jan. 5; Sp. p. 758; Gaz. vol. 138; p. 119.  
 Brooder, Poultry-. H. N. Heilmann. No. 920,740; May 4; Sp. p. 1313; Gaz. vol. 142; p. 212.  
 Broom. G. W. Duval. No. 915,164; Mar. 16; Sp. p. 3130; Gaz. vol. 140; p. 549.  
 Broom. S. G. Wilson. No. 923,918; June 8; Sp. p. 1818; Gaz. vol. 143; p. 303.  
 Broom. H. R. Stevenson. No. 925,243; June 15; Sp. p. 4551; Gaz. vol. 143; p. 778.  
 Broom. F. Becker. No. 928,490; July 20; Sp. p. 3721; Gaz. vol. 144; p. 654.  
 Broom. S. F. Frazier. No. 931,290; Aug. 17; Sp. p. 3545; Gaz. vol. 145; p. 611.  
 Broom automatic moistening device. A. E. Lotstrom. No. 924,253; June 8; Sp. p. 2537; Gaz. vol. 143; p. 413.  
 Broom-binder. A. Seaholm. No. 916,493; Mar. 30; Sp. p. 5773; Gaz. vol. 140; p. 1040.  
 Broom-bridle. C. F. Schulz. No. 943,319; Dec. 14; Sp. p. 2764; Gaz. vol. 149; p. 466.  
 Broom-corn header. H. L. Tonkinson. No. 930,438; Aug. 10; Sp. p. 1642; Gaz. vol. 145; p. 297.  
 Broom-corn, Machine for removing stems from. W. H. Van Sickle, Jr. No. 925,615; June 22; Sp. p. 5271; Gaz. vol. 143; p. 926.  
 Broom-cover. C. Plunkett. No. 917,486; Apr. 6; Sp. p. 1037; Gaz. vol. 141; p. 181.  
 Broom dust-collecting attachment. C. C. Abbott. No. 917,701; Apr. 6; Sp. p. 1437; Gaz. vol. 141; p. 252.  
 Broom-hanger. J. H. Ashmead. No. 927,208; July 6; Sp. p. 1052; Gaz. vol. 144; p. 170.  
 Broom-head. H. V. Wilkins. No. 911,466; Feb. 2; Sp. p. 839; Gaz. vol. 139; p. 147.  
 Broom-head cover. O. T. Merkle. No. 939,052; Nov. 2; Sp. p. 1290; Gaz. vol. 148; p. 208.  
 Broom-holder. E. M. Gildemeister. No. 908,558; Jan. 5; Sp. p. 264; Gaz. vol. 138; p. 44.  
 Broom-holder. I. E. Sucher. No. 914,989; Mar. 9; Sp. p. 2750; Gaz. vol. 140; p. 463.  
 Broom-holder. L. J. Powers. No. 915,886; Mar. 23; Sp. p. 4590; Gaz. vol. 140; p. 815.  
 Broom-holder. A. Marko. No. 922,008; May 13; Sp. p. 3957; Gaz. vol. 142; p. 692.  
 Broom-holder. G. E. Selsor. No. 928,284; July 20; Sp. p. 3321; Gaz. vol. 144; p. 586.  
 Broom-holder. H. W. Merrill. No. 933,260; Sept. 7; Sp. p. 528; Gaz. vol. 146; p. 81.  
 Broom-hood holder. C. B. Laitner. No. 924,246; June 8; Sp. p. 2526; Gaz. vol. 143; p. 411.  
 Broom-making machine. H. M. Marsh. No. 944,803; Dec. 28; Sp. p. 5976; Gaz. vol. 149; p. 1030.  
 Broom-moistener. T. Meyer. No. 911,514; Feb. 2; Sp. p. 931; Gaz. vol. 139; p. 163.  
 Broom-splints, Apparatus for separating. W. S. Lang. No. 912,692; Feb. 16; Sp. p. 3456; Gaz. vol. 139; p. 617.  
 Brush. L. O. Ekrem. No. 908,652; Jan. 5; Sp. p. 482; Gaz. vol. 138; p. 75.  
 Brush. A. R. Wiens. No. 908,823; Jan. 5; Sp. p. 818; Gaz. vol. 138; p. 128.  
 Brush. A. H. Wolcott. No. 909,501; Jan. 12; Sp. p. 2160; Gaz. vol. 138; p. 383.  
 Brush. C. E. Graham. No. 912,306; Feb. 16; Sp. p. 2643; Gaz. vol. 139; p. 485.  
 Brush. C. Petersen. No. 913,304; Feb. 23; Sp. p. 4700; Gaz. vol. 139; p. 844.  
 Brush. K. Watanabe. No. 916,071; Mar. 23; Sp. p. 4940; Gaz. vol. 140; p. 875.  
 Brush. H. Alexander. No. 916,383; Mar. 23; Sp. p. 5508; Gaz. vol. 140; p. 978.  
 Brush. J. F. Buchanan. No. 918,957; Apr. 20; Sp. p. 4173; Gaz. vol. 141; p. 729.  
 Brush. C. W. Patrick. No. 919,756; Apr. 27; Sp. p. 5982; Gaz. vol. 141; p. 1028.  
 Brush. R. Porter. No. 922,947; May 25; Sp. p. 5891; Gaz. vol. 142; p. 1026.  
 Brush. H. V. Hardman. No. 925,178; June 15; Sp. p. 4429; Gaz. vol. 143; p. 756.  
 Brush. G. Pavlik. No. 927,870; July 13; Sp. p. 2435; Gaz. vol. 144; p. 416.  
 Brush. H. M. Schwartz. No. 928,550; July 20; Sp. p. 3845; Gaz. vol. 144; p. 674.  
 Brush. C. R. Uhlmann. No. 929,731; Aug. 3; Sp. p. 195; Gaz. vol. 145; p. 34.  
 Brush. H. W. Hascy. No. 930,375; Aug. 10; Sp. p. 1521; Gaz. vol. 145; p. 276.  
 Brush. S. A. Ver Bryck. No. 930,816; Aug. 10; Sp. p. 2451; Gaz. vol. 145; p. 424.  
 Brush. F. M. Hanaway. No. 931,602; Aug. 17; Sp. p. 4133; Gaz. vol. 145; p. 712.  
 Brush. E. Miltner. No. 932,630; Aug. 31; Sp. p. 6364; Gaz. vol. 145; p. 1098.  
 Brush. G. G. Gramann and A. F. Timme. No. 935,493; Sept. 28; Sp. p. 5047; Gaz. vol. 146; p. 892.  
 Brush. G. H. Pennington and W. Withersow. No. 937,640; Oct. 19; Sp. p. 4252; Gaz. vol. 147; p. 725.  
 Brush. F. W. Riehl. No. 938,275; Oct. 26; Sp. p. 5593; Gaz. vol. 147; p. 956.  
 Brush. F. D. Wolfram and E. Klausman. No. 938,735; Nov. 2; Sp. p. 616; Gaz. vol. 148; p. 97.  
 Brush. E. E. Ahlstedt and A. L. Bowman. No. 939,181; Nov. 2; Sp. p. 1566; Gaz. vol. 148; p. 254.  
 Brush. M. P. Tottle. No. 944,833; Dec. 28; Sp. p. 6048; Gaz. vol. 149; p. 1041.  
 Brush, Air-. O. C. Wold. No. 910,341; Jan. 19; Sp. p. 3902; Gaz. vol. 138; p. 702.  
 Brush, Air-. F. J. Lederer. No. 918,754; Apr. 20; Sp. p. 3728; Gaz. vol. 141; p. 661.  
 Brush, Air-. L. Forester. No. 920,855; May 4; Sp. p. 1546; Gaz. vol. 142; p. 249.  
 Brush, Air-. P. Thompson. No. 923,910; June 8; Sp. p. 1807; Gaz. vol. 143; p. 300.  
 Brush and comb, Combination. E. Kohler and J. Bleiker. No. 933,567; Sept. 7; Sp. p. 1238; Gaz. vol. 146; p. 182.  
 Brush and shoe-polisher, Combination. E. Holm and A. Wobus. No. 934,613; Sept. 21; Sp. p. 3310; Gaz. vol. 146; p. 576.  
 Brush attachment. J. T. Hart. No. 911,589; Feb. 9; Sp. p. 1102; Gaz. vol. 139; p. 214.

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- Brush, Bath and complexion. W. R. Blowers. No. 926,462; June 29; Sp. p. 7036; Gaz. vol. 143; p. 1240.
- Brush, Bottle and like cleaning. G. A. and C. C. Farrar. No. 934,058; Sept. 14; Sp. p. 2211; Gaz. vol. 146; p. 365.
- Brush, Bridle. H. P. McMillan. No. 924,623; June 8; Sp. p. 3285; Gaz. vol. 143; p. 535.
- Brush-bridle. B. C. Gindorff. No. 927,232; July 6; Sp. p. 1100; Gaz. vol. 144; p. 178.
- Brush-bridle, Adjustable. W. Reese. No. 928,699; July 20; Sp. p. 4149; Gaz. vol. 144; p. 723.
- Brush, Car-washer. A. L. Carroll. No. 912,811; Feb. 16; Sp. p. 3738; Gaz. vol. 139; p. 658.
- Brush-chopper. J. Porteous. No. 942,215; Dec. 7; Sp. p. 400; Gaz. vol. 149; p. 61.
- Brush, Cloth-steaming. L. Svoboda and F. Kopecky. No. 938,089; Oct. 26; Sp. p. 5208; Gaz. vol. 147; p. 892.
- Brush, Commutator. C. B. Mills. No. 910,214; Jan. 19; Sp. p. 3608; Gaz. vol. 138; p. 655.
- Brush-cutter. P. P. Dick. No. 914,392; Mar. 9; Sp. p. 1581; Gaz. vol. 140; p. 269.
- Brush, Dusting-. J. H. Channon. No. 908,953; Jan. 5; Sp. p. 1060; Gaz. vol. 138; p. 171.
- Brush, Dustless. F. S. Hunt. No. 929,670; Aug. 3; Sp. p. 51; Gaz. vol. 145; p. 11.
- Brush, Electric. M. E. Bacon and L. J. Meller. No. 936,208; Oct. 5; Sp. p. 1263; Gaz. vol. 147; p. 192.
- Brush, Electric needle-spray bath-. H. Hertzberg. No. 929,947; Aug. 3; Sp. p. 689; Gaz. vol. 145; p. 110.
- Brush, Electrical contact-. H. K. Sandell. No. 916,789; Mar. 30; Sp. p. 6329; Gaz. vol. 140; p. 1131.
- Brush, Expanding. J. J. Heywang, Jr., and M. Slater. No. 925,909; June 22; Sp. p. 5919; Gaz. vol. 143; p. 1023.
- Brush-filling machine. S. Levi. No. 919,734; Apr. 27; Sp. p. 5947; Gaz. vol. 141; p. 1021.
- Brush for cleaning glasses, Hand-. O. Bethsold. No. 937,019; Oct. 12; Sp. p. 2944; Gaz. vol. 147; p. 490.
- Brush for screen-doors, Fly-. W. L. Johnson. No. 932,474; Aug. 31; Sp. p. 6018; Gaz. vol. 145; p. 1045.
- Brush, Fountain-. W. E. Lawson and W. R. Smith. No. 919,440; Apr. 27; Sp. p. 5327; Gaz. vol. 141; p. 920.
- Brush, Fountain-. A. A. Long. No. 933,477; Sept. 7; Sp. p. 1059; Gaz. vol. 146; p. 153.
- Brush, Fountain bath-. P. Ford. No. 919,844; Apr. 27; Sp. p. 6197; Gaz. vol. 141; p. 1057.
- Brush, Fountain paint-. O. Anderson. No. 938,362; Oct. 26; Sp. p. 5809; Gaz. vol. 147; p. 986.
- Brush, Fountain shaving-. I. D. Stevens. No. 914,526; Mar. 9; Sp. p. 1838; Gaz. vol. 140; p. 313.
- Brush-guard. A. D. Lockwood. No. 939,522; Nov. 9; Sp. p. 2375; Gaz. vol. 148; p. 394.
- Brush-handle. E. Maeder. No. 919,610; Apr. 27; Sp. p. 5701; Gaz. vol. 141; p. 980.
- Brush-head. C. H. Wilkes and H. Lyke. No. 929,064; July 27; Sp. p. 4889; Gaz. vol. 144; p. 872.
- Brush-holder. H. L. Zabriskie. No. 912,350; Feb. 16; Sp. p. 2745; Gaz. vol. 139; p. 500.
- Brush-holder. J. F. McElroy. No. 912,974; Feb. 16; Sp. p. 4029; Gaz. vol. 139; p. 707.
- Brush-holder. W. A. Turbayne. No. 916,065; Mar. 23; Sp. p. 4926; Gaz. vol. 140; p. 873.
- Brush-holder. E. R. Whitney. No. 917,223; Apr. 6; Sp. p. 536; Gaz. vol. 141; p. 94.
- Brush-holder. A. J. Brown. No. 917,535; Apr. 6; Sp. p. 1129; Gaz. vol. 141; p. 198.
- Brush-holder. A. Rae. No. 917,964; Apr. 13; Sp. p. 2021; Gaz. vol. 141; p. 368.
- Brush-holder. E. W. Mix. No. 925,010; June 15; Sp. p. 4112; Gaz. vol. 143; p. 699.
- Brush-holder. N. C. Bassett. No. 930,337; Aug. 10; Sp. p. 1444; Gaz. vol. 145; p. 264.
- Brush-holder. L. H. Sparks. No. 930,427; Aug. 10; Sp. p. 1623; Gaz. vol. 145; p. 293.
- Brush-holder. A. L. McHugh. No. 932,309; Aug. 24; Sp. p. 5673; Gaz. vol. 145; p. 968.
- Brush-holder. S. Nelson. No. 936,150; Oct. 5; Sp. p. 1158; Gaz. vol. 147; p. 176.
- Brush-holder. E. R. Knight. No. 940,393; Nov. 16; Sp. p. 4346; Gaz. vol. 148; p. 728.
- Brush-holder. A. Kimble. No. 942,264; Dec. 7; Sp. p. 502; Gaz. vol. 149; p. 78.
- Brush holder, Adjustable paint-. A. J. Compton. No. 918,420; Apr. 13; Sp. p. 2951; Gaz. vol. 141; p. 520.
- Brush holder, Antiseptic tooth-. W. D. Jones. No. 941,200; Nov. 23; Sp. p. 6092; Gaz. vol. 148; p. 1022.
- Brush holder, Tooth-. R. M. Ryan. No. 928,542; July 20; Sp. p. 3825; Gaz. vol. 144; p. 671.
- Brush holder, Tooth-. C. H. De Gowin. No. 942,058; Dec. 7; Sp. p. 32; Gaz. vol. 149; p. 7.
- Brush holder, Tooth-. O. E. Jones. No. 943,415; Dec. 14; Sp. p. 2962; Gaz. vol. 149; p. 499.
- Brush-holding stud. T. L. and M. J. Kearney. No. 930,864; Aug. 10; Sp. p. 2548; Gaz. vol. 145; p. 440.
- Brush-hook and ax, Combined. C. E. Olson. No. 934,008; Sept. 14; Sp. p. 2115; Gaz. vol. 146; p. 349.
- Brush, Leader-. M. Blackman. No. 919,813; Apr. 27; Sp. p. 6142; Gaz. vol. 141; p. 1047.
- Brush-machine. H. J. Leberher. No. 920,588; May 4; Sp. p. 1001; Gaz. vol. 142; p. 163.
- Brush-machine. H. M. Schwartz. No. 924,194; June 8; Sp. p. 2398; Gaz. vol. 143; p. 393.
- Brush-making machine. J. E. Snevely. No. 913,314; Feb. 23; Sp. p. 4728; Gaz. vol. 139; p. 847.
- Brush-making machine. H. M. Schwartz. No. 928,548; July 20; Sp. p. 3842; Gaz. vol. 144; p. 673.
- Brush-making machine. H. M. Schwartz. No. 928,549; July 20; Sp. p. 3844; Gaz. vol. 144; p. 673.
- Brush-making machine. G. S. Murdock. No. 934,560; Sept. 21; Sp. p. 3190; Gaz. vol. 146; p. 557.
- Brush-making machine. G. S. Murdock. No. 944,142; Dec. 21; Sp. p. 4532; Gaz. vol. 149; p. 778.
- Brush-making machines, Bristle-feeding means for. W. G. Liebig. No. 920,355; May 4; Sp. p. 540; Gaz. vol. 142; p. 86.
- Brush, Milk-can. J. P. Clarkson. No. 922,458; May 25; Sp. p. 4853; Gaz. vol. 142; p. 867.
- Brush mounting, Bottle-washer-. A. N. Davis. No. 912,085; Feb. 9; Sp. p. 2175; Gaz. vol. 139; p. 377.
- Brush, Polishing-. J. A. Brewer. No. 936,699; Oct. 12; Sp. p. 2316; Gaz. vol. 147; p. 384.
- Brush, Rotary. H. Nielson. No. 909,204; Jan. 12; Sp. p. 1594; Gaz. vol. 138; p. 286.
- Brush, Rotary. W. F. Wegner. No. 922,225; May 18; Sp. p. 4398; Gaz. vol. 142; p. 763.
- Brush, Rotary. T. W. Johnson. No. 937,610; Oct. 19; Sp. p. 4199; Gaz. vol. 147; p. 715.
- Brush, Rotary tooth-. A. Meng. No. 925,007; June 15; Sp. p. 4107; Gaz. vol. 143; p. 698.
- Brush, Rotary tooth-. C. L. Phillips. No. 931,143; Aug. 17; Sp. p. 3210; Gaz. vol. 145; p. 560.
- Brush, Shaving-. E. C. Ripley. No. 919,466; Apr. 27; Sp. p. 5396; Gaz. vol. 141; p. 930.
- Brush, Shaving-. W. H. Lopp. No. 927,565; July 13; Sp. p. 1762; Gaz. vol. 144; p. 515.
- Brush, Shaving-. D. S. Ring. No. 929,494; July 27; Sp. p. 5776; Gaz. vol. 144; p. 1013.
- Brush, Shoe-. J. H. Grafflin. No. 912,115; Feb. 9; Sp. p. 2232; Gaz. vol. 139; p. 386.
- Brush, Sieve-cleaner. A. R. Wiens. No. 914,687; Mar. 9; Sp. p. 2181; Gaz. vol. 140; p. 366.
- Brush, Sink-. C. Plunkett. No. 932,899; Aug. 31; Sp. p. 6901; Gaz. vol. 145; p. 1185.
- Brush, Stencil-. A. L. Nickerson and H. Hughes. No. 914,970; Mar. 9; Sp. p. 2722; Gaz. vol. 140; p. 458.
- Brush-stud support. B. A. Behrend. No. 931,376; Aug. 17; Sp. p. 3718; Gaz. vol. 145; p. 642.
- Brush, Toilet-. J. J. Lawler. No. 944,679; Dec. 28; Sp. p. 5701; Gaz. vol. 149; p. 989.
- Brush, Tooth-. A. M. Stryker. No. 910,970; Jan. 26; Sp. p. 5168; Gaz. vol. 138; p. 931.
- Brush, Tooth-. C. L. Alexander. No. 913,184; Feb. 23; Sp. p. 4459; Gaz. vol. 139; p. 803.
- Brush, Tooth-. D. McEachern. No. 914,501; Mar. 9; Sp. p. 1779; Gaz. vol. 140; p. 305.
- Brush, Tooth-. J. L. Hitz. No. 915,349; Mar. 16; Sp. p. 3489; Gaz. vol. 140; p. 609.
- Brush trimming and cleaning machine. H. J. Leberher. No. 913,523; Feb. 23; Sp. p. 5144; Gaz. vol. 139; p. 917.
- Brush-ware. J. A. Burnside. No. 941,306; Nov. 23; Sp. p. 6309; Gaz. vol. 148; p. 1055.
- Brushes, Making. G. D. Pushee. No. 935,326; Sept. 28; Sp. p. 4728; Gaz. vol. 146; p. 839.
- Brushes, Manufacture of. C. Strobel. No. 917,811; Apr. 13; Sp. p. 1712; Gaz. vol. 141; p. 315.
- Brushes, Manufacture of. J. J. Potter. No. 928,401; July 20; Sp. p. 3544; Gaz. vol. 144; p. 626.
- Brushes, Mounting for bottle-washing. A. N. Davis. No. 930,049; Aug. 3; Sp. p. 904; Gaz. vol. 145; p. 145.
- Brushing and polishing fruit and other objects, Machine for. J. B. Horrell and A. S. Bryant. No. 944,993; Dec. 28; Sp. p. 6366; Gaz. vol. 149; p. 1093.
- Brushing machine, Shoe-. G. E. Russell. No. 936,948; Oct. 12; Sp. p. 2791; Gaz. vol. 147; p. 466.
- Bucket. H. Troegeler. No. 909,715; Jan. 12; Sp. p. 2593; Gaz. vol. 138; p. 458.
- Bucket. A. B. Marston. No. 918,686; Apr. 20; Sp. p. 3596; Gaz. vol. 141; p. 637.
- Bucket and lid holder, Sap-. A. L. Milks. No. 935,769; Oct. 5; Sp. p. 328; Gaz. vol. 147; p. 50.
- Bucket-ball. W. B. Eason. No. 912,095; Feb. 9; Sp. p. 2198; Gaz. vol. 139; p. 380.
- Bucket, Clam-shell. E. F. Atherton. No. 916,965; Apr. 6; Sp. p. 7; Gaz. vol. 141; p. 4.
- Bucket, Clam-shell. F. W. Lovell. No. 919,446; Apr. 27; Sp. p. 5337; Gaz. vol. 141; p. 922.
- Bucket, Clam-shell. J. W. Frazier and J. H. Fox. No. 921,821; May 18; Sp. p. 3561; Gaz. vol. 142; p. 631.
- Bucket, Clam-shell. J. B. H. Ouchterlony. No. 925,018; June 15; Sp. p. 4124; Gaz. vol. 143; p. 702.
- Bucket, Clam-shell. H. L. Allen. No. 925,262; June 15; Sp. p. 4581; Gaz. vol. 143; p. 783.
- Bucket, Clam-shell. H. E. Huntsberry. No. 933,455; Sept. 7; Sp. p. 957; Gaz. vol. 146; p. 144.
- Bucket, Clam-shell. C. C. Williams. No. 937,496; Oct. 19; Sp. p. 3979; Gaz. vol. 147; p. 676.
- Bucket, Collapsible. D. M. Orcutt. No. 938,431; Oct. 26; Sp. p. 5954; Gaz. vol. 147; p. 1010.
- Bucket, Collapsible bait-. F. J. Dawson. No. 921,516; May 11; Sp. p. 2925; Gaz. vol. 142; p. 502.
- Bucket, Collapsible bait-. W. L. Wilson. No. 933,216; Sept. 7; Sp. p. 415; Gaz. vol. 146; p. 64.
- Bucket, Dump-. L. Wolfley. No. 910,253; Jan. 19; Sp. p. 3719; Gaz. vol. 138; p. 672.
- Bucket, Dumping-. H. J. Russell. No. 914,753; Mar. 9; Sp. p. 2323; Gaz. vol. 140; p. 389.



*Alphabetical list of inventions—Continued.*

- Bucket, Dumping-. J. H. Lance. No. 916,331; Mar. 23; Sp. p. 5406; Gaz. vol. 140; p. 961.  
 Bucket, Excavating-. A. E. Holcomb. No. 918,552; Apr. 20; Sp. p. 3249; Gaz. vol. 141; p. 592.  
 Bucket-filing machine. J. Riddell. No. 924,831; June 15; Sp. p. 3732; Gaz. vol. 143; p. 639.  
 Bucket for concrete building material. N. C. Newerl. No. 934,092; Sept. 14; Sp. p. 2291; Gaz. vol. 146; p. 376.  
 Bucket, Garbage-. H. E. Schmidt. No. 925,516; June 22; Sp. p. 5077; Gaz. vol. 143; p. 893.  
 Bucket, Grab-. H. P. Andresen. No. 921,056; May 11; Sp. p. 1949; Gaz. vol. 142; p. 346.  
 Bucket hook, Well-. F. M. Naul. No. 921,146; May 11; Sp. p. 2144; Gaz. vol. 142; p. 377.  
 Bucket-jack. C. W. Phinny. No. 929,325; July 27; Sp. p. 5476; Gaz. vol. 144; p. 961.  
 Bucket, Minnow-. A. W. Hart. No. 913,379; Feb. 23; Sp. p. 4857; Gaz. vol. 139; p. 870.  
 Bucket-operating mechanism. H. L. Allen. No. 924,719; June 15; Sp. p. 3492; Gaz. vol. 143; p. 601.  
 Bucket, Scoop-gaging. G. L. Stuebner. No. 913,319; Feb. 23; Sp. p. 4745; Gaz. vol. 139; p. 849.  
 Bucketsupport, Paint-. M. Kapsch. No. 915,607; Mar. 16; Sp. p. 4023; Gaz. vol. 140; p. 695.  
 Bucket, Turbine-. C. H. Smoot. No. 926,442; June 29; Sp. p. 7006; Gaz. vol. 143; p. 1234.  
 Bucket-wheel. A. C. Pratt. No. 910,311; Jan. 19; Sp. p. 3839; Gaz. vol. 138; p. 692.  
 Bucket-wheel. C. M. Schultz. No. 924,841; June 15; Sp. p. 3753; Gaz. vol. 143; p. 642.  
 Bucket, Wheelbarrow hoisting-. A. Smith. No. 913,241; Feb. 23; Sp. p. 4582; Gaz. vol. 139; p. 822.  
 Buckets, Automatic catch-hook and release for dredge-. M. Hahn and G. Mayer. No. 919,003; Apr. 20; Sp. p. 4255; Gaz. vol. 141; p. 743.  
 Buckle. D. de Lancey. No. 908,582; Jan. 5; Sp. p. 308; Gaz. vol. 138; p. 52.  
 Buckle. A. C. Stone. No. 909,251; Jan. 12; Sp. p. 1675; Gaz. vol. 138; p. 302.  
 Buckle. J. F. Young and F. A. Libby. No. 910,258; Jan. 19; Sp. p. 3729; Gaz. vol. 138; p. 673.  
 Buckle. W. A. Meyer. No. 911,895; Feb. 9; Sp. p. 1697; Gaz. vol. 139; p. 314.  
 Buckle. J. A. Alcorn. No. 912,053; Feb. 9; Sp. p. 2122; Gaz. vol. 139; p. 366.  
 Buckle. N. Koster. No. 913,645; Feb. 23; Sp. p. 5446; Gaz. vol. 139; p. 959.  
 Buckle. L. Eckert. No. 914,029; Mar. 2; Sp. p. 820; Gaz. vol. 140; p. 126.  
 Buckle. H. D. Sargent. No. 915,798; Mar. 23; Sp. p. 4428; Gaz. vol. 140; p. 786.  
 Buckle. F. Loeb. No. 916,173; Mar. 23; Sp. p. 5128; Gaz. vol. 140; p. 907.  
 Buckle. W. A. Holden. No. 918,449; Apr. 13; Sp. p. 3013; Gaz. vol. 141; p. 530.  
 Buckle. W. A. Holden. No. 919,169; Apr. 20; Sp. p. 4551; Gaz. vol. 141; p. 796.  
 Buckle. O. F. Allen. No. 920,899; May 11; Sp. p. 1654; Gaz. vol. 142; p. 295.  
 Buckle. C. O. Anderson. No. 926,634; June 29; Sp. p. 7350; Gaz. vol. 143; p. 1297.  
 Buckle. G. H. Nearing. No. 928,212; July 13; Sp. p. 3121; Gaz. vol. 144; p. 531.  
 Buckle. C. B. Davenport. No. 928,944; July 27; Sp. p. 4638; Gaz. vol. 144; p. 944.  
 Buckle. F. P. Tenney. No. 932,596; Aug. 31; Sp. p. 6278; Gaz. vol. 145; p. 1086.  
 Buckle. R. U. Sourek. No. 934,577; Sept. 21; Sp. p. 3224; Gaz. vol. 146; p. 563.  
 Buckle. J. S. Sourek. No. 935,279; Sept. 28; Sp. p. 4631; Gaz. vol. 146; p. 823.  
 Buckle. J. S. Sourek. No. 935,557; Sept. 28; Sp. p. 5211; Gaz. vol. 146; p. 914.  
 Buckle. L. L. Thomas. No. 935,706; Oct. 5; Sp. p. 181; Gaz. vol. 147; p. 28.  
 Buckle. A. Cohen. No. 939,394; Nov. 9; Sp. p. 2112; Gaz. vol. 148; p. 352.  
 Buckle. A. Bienenzucht. No. 940,498; Nov. 16; Sp. p. 4570; Gaz. vol. 148; p. 763.  
 Buckle. L. H. Fishel. No. 941,702; Nov. 30; Sp. p. 7157; Gaz. vol. 148; p. 1208.  
 Buckle. G. B. Adams. No. 943,212; Dec. 14; Sp. p. 2537; Gaz. vol. 149; p. 430.  
 Buckle. W. P. Gelabert. No. 943,870; Dec. 21; Sp. p. 3946; Gaz. vol. 149; p. 686.  
 Buckle. F. A. Russ. No. 944,505; Dec. 28; Sp. p. 5332; Gaz. vol. 149; p. 929.  
 Buckle and clasp attaching means. H. Gibson. No. 909,782; Jan. 12; Sp. p. 2709; Gaz. vol. 138; p. 479.  
 Buckle and clasp, Combined. M. F. Burns. No. 939,122; Nov. 2; Sp. p. 1425; Gaz. vol. 148; p. 232.  
 Buckle, Baling-tie. C. H. Herth. No. 927,044; July 6; Sp. p. 726; Gaz. vol. 144; p. 114.  
 Buckle, Belt-. J. Hough. No. 926,808; July 6; Sp. p. 204; Gaz. vol. 144; p. 34.  
 Buckle, Belt-. L. M. Rosenberg. No. 936,565; Oct. 12; Sp. p. 2043; Gaz. vol. 147; p. 337.  
 Buckle, Belt-. A. M. Gardner. No. 941,242; Nov. 23; Sp. p. 6175; Gaz. vol. 148; p. 1036.  
 Buckle, Cotton-tie. W. E. Grisham. No. 923,042; May 25; Sp. p. 6066; Gaz. vol. 142; p. 1056.  
 Buckle, Cross-line. W. R. Smith. No. 910,878; Jan. 26; Sp. p. 5001; Gaz. vol. 138; p. 902.  
 Buckle, Cross-line. G. R. Bair. No. 923,316; June 1; Sp. p. 484; Gaz. vol. 143; p. 69.  
 Buckle, Cross-line. L. Cook. No. 924,636; June 15; Sp. p. 3325; Gaz. vol. 143; p. 572.  
 Buckle, Cross-line. A. F. Carlson. No. 933,745; Sept. 14; Sp. p. 1614; Gaz. vol. 146; p. 266.  
 Buckle, Cross-line. W. D. Wise. No. 938,536; Nov. 2; Sp. p. 218; Gaz. vol. 148; p. 31.  
 Buckle, Cross-line. H. B. McGowan. No. 942,404; Dec. 7; Sp. p. 778; Gaz. vol. 149; p. 126.  
 Buckle for compressed bales. E. L. Hines. No. 920,328; May 4; Sp. p. 486; Gaz. vol. 142; p. 76.  
 Buckle for waist-belts. J. A. Dubois. No. 941,136; Nov. 23; Sp. p. 5946; Gaz. vol. 148; p. 1000.  
 Buckle, Garment-. M. Rubin. No. 931,802; Aug. 24; Sp. p. 4617; Gaz. vol. 145; p. 800.  
 Buckle, Harness-. G. V. Ramsey. No. 920,996; May 11; Sp. p. 1838; Gaz. vol. 142; p. 326.  
 Buckle, Harness-. H. Nielsen. No. 922,500; May 25; Sp. p. 4937; Gaz. vol. 142; p. 879.  
 Buckle, Harness-. J. E. Rempel. No. 929,709; Aug. 3; Sp. p. 146; Gaz. vol. 145; p. 26.  
 Buckle, Lever-. C. E. Smith. No. 940,829; Nov. 23; Sp. p. 5296; Gaz. vol. 148; p. 898.  
 Buckle, Lock-. W. H. McGee. No. 919,919; Apr. 27; Sp. p. 6342; Gaz. vol. 141; p. 1083.  
 Buckle, Suspender-. J. B. Russ. No. 919,959; Apr. 27; Sp. p. 6412; Gaz. vol. 141; p. 1095.  
 Buckle, Trace-. E. L. Dodd. No. 923,821; June 8; Sp. p. 1640; Gaz. vol. 143; p. 271.  
 Buckle, Trace-supporting back-band. D. Jacks. No. 932,393; Aug. 24; Sp. p. 5830; Gaz. vol. 145; p. 995.  
 Buckles, Coin-holder for belt-. J. C. Waugh. No. 931,823; Aug. 24; Sp. p. 4658; Gaz. vol. 145; p. 807.  
 Bucksaw. F. L. Hemmer. No. 914,833; Mar. 9; Sp. p. 2477; Gaz. vol. 140; p. 414.  
 Buffering device. M. H. Ballard. No. 927,926; July 13; Sp. p. 2561; Gaz. vol. 144; p. 436.  
 Buffering-machine. E. E. Ferrers. No. 911,261; Feb. 2; Sp. p. 476; Gaz. vol. 139; p. 82.  
 Buffering-machine. H. J. Brewer. No. 916,665; Mar. 30; Sp. p. 6108; Gaz. vol. 140; p. 1095.  
 Buffering-machine. J. F. Gail. No. 927,036; July 6; Sp. p. 700; Gaz. vol. 144; p. 112.  
 Buffering-machine. P. B. Taylor. No. 928,164; July 13; Sp. p. 3003; Gaz. vol. 144; p. 513.  
 Buffering-machine. J. J. Heys. No. 940,015; Nov. 16; Sp. p. 3443; Gaz. vol. 148; p. 594.  
 Buffering mechanism. J. F. Gail. No. 928,253; July 20; Sp. p. 3229; Gaz. vol. 144; p. 575.  
 Buffering or polishing wheel. F. M. Levett. No. 911,889; Feb. 9; Sp. p. 1690; Gaz. vol. 139; p. 312.  
 Buffering-wheel. G. S. Tenney. No. 921,027; May 11; Sp. p. 1897; Gaz. vol. 142; p. 336.  
 Buggy-body. G. H. Bertsch. No. 944,231; Dec. 21; Sp. p. 4699; Gaz. vol. 149; p. 805.  
 Buggy-curtain. G. W. Atkins. No. 922,073; May 18; Sp. p. 4074; Gaz. vol. 142; p. 712.  
 Buggy top and curtain. E. C. F. Becker. No. 928,099; July 13; Sp. p. 2880; Gaz. vol. 144; p. 492.  
 Buggy-top attachment. P. Y. Fullerton. No. 914,263; Mar. 2; Sp. p. 1299; Gaz. vol. 140; p. 201.  
 Buggy-top attachment. T. A. Brethouwer. No. 930,641; Aug. 10; Sp. p. 2097; Gaz. vol. 145; p. 366.  
 Buggy-top cushion-support. W. H. Stevens. No. 923,907; June 8; Sp. p. 1803; Gaz. vol. 143; p. 300.  
 Buggy-top lock. A. L. Blalock. No. 912,278; Feb. 16; Sp. p. 2583; Gaz. vol. 139; p. 476.  
 Buggy-top raising and lowering attachment. W. P. Warren. No. 929,806; Aug. 3; Sp. p. 377; Gaz. vol. 145; p. 63.  
 Buggy-top support. W. C. Putman. No. 926,604; June 29; Sp. p. 7296; Gaz. vol. 143; p. 1288.  
 Buggy-top support. J. C. Morton. No. 929,155; July 27; Sp. p. 5079; Gaz. vol. 144; p. 902.  
 Buggy-top support. J. P. Cline. No. 930,352; Aug. 10; Sp. p. 1471; Gaz. vol. 145; p. 269.  
 Buggy-top support, Yielding. C. P. Johnson. No. 940,158; Nov. 16; Sp. p. 3783; Gaz. vol. 148; p. 645.  
 Building and shelving construction. R. R. Belcher. No. 925,677; June 22; Sp. p. 5396; Gaz. vol. 143; p. 945.  
 Building-block. C. Mossman and J. H. Grant. No. 916,756; Mar. 30; Sp. p. 6263; Gaz. vol. 140; p. 1120.  
 Building-block. F. A. W. Davis. No. 917,930; Apr. 13; Sp. p. 1956; Gaz. vol. 141; p. 355.  
 Building-block. A. White. No. 919,272; Apr. 20; Sp. p. 4946; Gaz. vol. 141; p. 830.  
 Building-block. R. E. Keagle. No. 922,594; May 25; Sp. p. 5143; Gaz. vol. 142; p. 912.  
 Building-block. E. Chapman. No. 941,617; Nov. 30; Sp. p. 6970; Gaz. vol. 148; p. 1179.  
 Building-block. W. C. Denison. No. 942,621; Dec. 7; Sp. p. 1229; Gaz. vol. 149; p. 201.  
 Building-block. S. Butz. No. 943,518; Dec. 14; Sp. p. 3189; Gaz. vol. 149; p. 536.  
 Building-block and wall. A. E. Matthews. No. 932,157; Aug. 24; Sp. p. 5381; Gaz. vol. 145; p. 918.  
 Building-block and wall constructed thereof. S. Strong. No. 920,212; May 4; Sp. p. 245; Gaz. vol. 142; p. 39.  
 Building-block and wall constructed thereof. J. Rehaut. No. 926,767; July 6; Sp. p. 123; Gaz. vol. 144; p. 20.

*Alphabetical list of inventions—Continued.*

- Building block and wall. F. J. Schuster. No. 941,656; Nov. 30; Sp. p. 7058; Gaz. vol. 148; p. 1193.  
 Building-block, Artificial. F. R. Hudson. No. 921,114; May 11; Sp. p. 2080; Gaz. vol. 142; p. 367.  
 Building-block, Fire-clay. J. O. St. John. No. 942,850; Dec. 7; Sp. p. 1706; Gaz. vol. 149; p. 276.  
 Building-block, Interlocking. B. Benas. No. 940,227; Nov. 16; Sp. p. 3943; Gaz. vol. 148; p. 670.  
 Building-block mold. W. N. Box and H. Brown. No. 911,110; Feb. 2; Sp. p. 165; Gaz. vol. 139; p. 31.  
 Building-block mold. M. Outeda. No. 937,542; Oct. 19; Sp. p. 4079; Gaz. vol. 147; p. 693.  
 Building-block-molding machine. A. L. Post. No. 931,644; Aug. 17; Sp. p. 4221; Gaz. vol. 145; p. 724.  
 Building block or brick. E. Kaye. No. 915,608; Mar. 16; Sp. p. 4025; Gaz. vol. 140; p. 695.  
 Building-block, Reinforced molded. G. A. Peterson. No. 910,571; Jan. 26; Sp. p. 4388; Gaz. vol. 138; p. 804.  
 Building-blocks, Machine for making hollow. H. S. Scott and M. L. Dilgard. No. 940,741; Nov. 23; Sp. p. 5095; Gaz. vol. 148; p. 869.  
 Building-blocks, Musical. A. A. Giffin. No. 939,127; Nov. 2; Sp. p. 1441; Gaz. vol. 148; p. 234.  
 Building blocks or bricks and glass facings therefor, Manufacturing. E. Kaye. No. 915,609; Mar. 16; Sp. p. 4026; Gaz. vol. 140; p. 695.  
 Building construction. L. K. Davis. No. 912,819; Feb. 16; Sp. p. 3749; Gaz. vol. 139; p. 660.  
 Building construction. L. K. Davis. No. 915,664; Mar. 16; Sp. p. 4160; Gaz. vol. 140; p. 717.  
 Building construction. S. Toye. No. 915,908; Mar. 23; Sp. p. 4632; Gaz. vol. 140; p. 822.  
 Building construction. J. Gibson. No. 923,507; June 1; Sp. p. 882; Gaz. vol. 143; p. 134.  
 Building construction. J. D. O'Neill. No. 927,273; July 6; Sp. p. 1175; Gaz. vol. 144; p. 192.  
 Building construction. A. M. Hilbig. No. 930,377; Aug. 10; Sp. p. 1523; Gaz. vol. 145; p. 276.  
 Building construction. J. C. Pelton. No. 930,610; Aug. 10; Sp. p. 2031; Gaz. vol. 145; p. 356.  
 Building construction. E. D. Martin. No. 931,943; Aug. 24; Sp. p. 4932; Gaz. vol. 145; p. 846.  
 Building construction. L. K. Davis. No. 933,163; Sept. 7; Sp. p. 270; Gaz. vol. 146; p. 45.  
 Building construction. O. N. Mueller. No. 936,342; Oct. 12; Sp. p. 1539; Gaz. vol. 147; p. 264.  
 Building construction. E. D. Martin. No. 938,393; Oct. 26; Sp. p. 5876; Gaz. vol. 147; p. 997.  
 Building construction. T. McFeely. No. 943,447; Dec. 14; Sp. p. 3042; Gaz. vol. 149; p. 511.  
 Building construction, Studding-clip for. M. Rittler. No. 936,167; Oct. 5; Sp. p. 1186; Gaz. vol. 147; p. 180.  
 Building construction to resist the action of earthquakes. J. A. Calantariens. No. 932,443; Aug. 31; Sp. p. 5937; Gaz. vol. 145; p. 1035.  
 Building, Fireproof. M. J. Dawkins. No. 916,276; Mar. 23; Sp. p. 5312; Gaz. vol. 140; p. 940.  
 Building-frame anchorage and weatherproofing. C. J. Appleton. No. 931,714; Aug. 24; Sp. p. 4430; Gaz. vol. 145; p. 771.  
 Building material. J. Schirra. No. 926,773; July 6; Sp. p. 132; Gaz. vol. 144; p. 22.  
 Building material, Apparatus for distributing. J. H. McCoy. No. 942,403; Dec. 7; Sp. p. 777; Gaz. vol. 149; p. 126.  
 Building material, Composite. S. W. Bonsall. No. 944,592; Dec. 28; Sp. p. 5536; Gaz. vol. 149; p. 960.  
 Building-mold. D. M. Eddy. No. 937,781; Oct. 26; Sp. p. 4560; Gaz. vol. 147; p. 789.  
 Building, Sanitary. H. Zeitschner. No. 926,042; June 22; Sp. p. 6173; Gaz. vol. 143; p. 1066.  
 Building structure. C. C. Stutz. No. 928,343; July 20; Sp. p. 3443; Gaz. vol. 144; p. 607.  
 Building structure. V. Font. No. 939,000; Nov. 2; Sp. p. 1189; Gaz. vol. 148; p. 190.  
 Building structures, Anchor-lock for. L. R. Zifferer. No. 943,906; Dec. 21; Sp. p. 4032; Gaz. vol. 149; p. 698.  
 Buildings and apparatus therefor, Constructing. A. and E. W. Foster. No. 921,820; May 18; Sp. p. 3560; Gaz. vol. 142; p. 631.  
 Buildings, Construction of. T. A. Eisen. No. 915,421; Mar. 16; Sp. p. 3635; Gaz. vol. 140; p. 633.  
 Buildings, Construction of. B. H. Marshall and C. E. Fox. No. 928,314; July 20; Sp. p. 3396; Gaz. vol. 144; p. 597.  
 Buildings, Sheathing metallic frames of. G. Webster. No. 928,092; July 13; Sp. p. 2868; Gaz. vol. 144; p. 489.  
 Built-up article. W. C. Harlow. No. 939,833; Nov. 9; Sp. p. 3046; Gaz. vol. 148; p. 503.  
 Bulb-support. F. Gorman. No. 936,446; Oct. 12; Sp. p. 1795; Gaz. vol. 147; p. 298.  
 Bulkhead-doors, Mechanism for operating water-tight. H. M. Gleason. No. 926,111; June 29; Sp. p. 6332; Gaz. vol. 143; p. 1124.  
 Bull-rings, Manufacturing. C. P. Showell. No. 913,651; Feb. 23; Sp. p. 5456; Gaz. vol. 139; p. 961.  
 Bullet. L. B. Taylor. No. 914,992; Mar. 9; Sp. p. 2753; Gaz. vol. 140; p. 464.  
 Bullet and projectile. E. Spencer. No. 922,638; May 25; Sp. p. 5235; Gaz. vol. 142; p. 926.  
 Bullet-mold. F. L. Putney. No. 936,475; Oct. 12; Sp. p. 1854; Gaz. vol. 147; p. 307.  
 Bullets, Transforming existing metal-coated. E. Polte. No. 915,307; Mar. 16; Sp. p. 3410; Gaz. vol. 140; p. 595.  
 Bulletin. J. P. Keegan. No. 930,479; Aug. 10; Sp. p. 1719; Gaz. vol. 145; p. 311.  
 Bumper-guard. G. Hipwood. No. 920,060; Apr. 27; Sp. p. 6636; Gaz. vol. 141; p. 1129.  
 Bunching and counting machine. H. Smithwick. No. 926,904; July 6; Sp. p. 412; Gaz. vol. 144; p. 67.  
 Bunching-machine. C. L. Coombs. No. 917,549; Apr. 6; Sp. p. 1153; Gaz. vol. 141; p. 201.  
 Bundle-carrier. J. Trotter. No. 910,746; Jan. 26; Sp. p. 4735; Gaz. vol. 138; p. 860.  
 Bundle-carrier for binders. I. F. Cole. No. 933,160; Sept. 7; Sp. p. 263; Gaz. vol. 146; p. 43.  
 Bundle-forming machine. A. J. Chesson. No. 920,541; May 4; Sp. p. 908; Gaz. vol. 142; p. 146.  
 Bundle-loader. H. S. Battee. No. 930,719; Aug. 10; Sp. p. 2249; Gaz. vol. 145; p. 391.  
 Bundle-loader. L. M. Amdahl. No. 934,649; Sept. 21; Sp. p. 3380; Gaz. vol. 146; p. 589.  
 Bundle-tie. T. M. Price and J. S. Richardson. No. 911,677; Feb. 9; Sp. p. 1305; Gaz. vol. 139; p. 243.  
 Bundle-tie. J. E. Wright. No. 915,922; Mar. 23; Sp. p. 4656; Gaz. vol. 140; p. 826.  
 Bundle-tying device. F. E. Spears. No. 910,597; Jan. 26; Sp. p. 4458; Gaz. vol. 138; p. 813.  
 Bundle-tying machine. J. W. Hall. No. 912,470; Feb. 16; Sp. p. 2979; Gaz. vol. 139; p. 539.  
 Bundle-wiring machine. J. Pfeffer. No. 914,363; Mar. 2; Sp. p. 1519; Gaz. vol. 140; p. 234.  
 Bundle-wiring pinners. J. Pfeffer. No. 914,182; Mar. 2; Sp. p. 1135; Gaz. vol. 140; p. 177.  
 Bung. W. H. Gerald. No. 913,637; Feb. 23; Sp. p. 5434; Gaz. vol. 139; p. 957.  
 Bung-cutting machine. C. W. Kincaid. No. 911,308; Feb. 2; Sp. p. 562; Gaz. vol. 139; p. 96.  
 Bung-extractor. T. Thornburg. No. 908,520; Jan. 5; Sp. p. 183; Gaz. vol. 138; p. 32.  
 Bung, Faucet-. F. Fink. No. 929,928; Aug. 3; Sp. p. 651; Gaz. vol. 145; p. 103.  
 Bunion-guard. W. H. De Ford. No. 933,423; Sept. 7; Sp. p. 871; Gaz. vol. 146; p. 136.  
 Bunion-protector, Shoe. C. N. Cole. No. 921,592; May 11; Sp. p. 3057; Gaz. vol. 142; p. 525.  
 Buoy. E. E. Taggart. No. 921,180; May 11; Sp. p. 2215; Gaz. vol. 142; p. 390.  
 Buoy, Acetylene-gas. R. M. Dixon. No. 926,475; June 29; Sp. p. 7055; Gaz. vol. 143; p. 1244.  
 Buoy, Automatic locating-. J. N. Marcou and J. C. St. Peter. No. 941,377; Nov. 30; Sp. p. 6463; Gaz. vol. 148; p. 1101.  
 Buoy for saving life and for communicating between a ship and other objects or the shore. T. Bredsdorff. No. 915,730; Mar. 23; Sp. p. 4304; Gaz. vol. 140; p. 765.  
 Buoy, Log-. C. M. Boll. No. 919,531; Apr. 27; Sp. p. 5538; Gaz. vol. 141; p. 952.  
 Buoy, Ring. H. F. Busch. No. 913,617; Feb. 23; Sp. p. 5374; Gaz. vol. 139; p. 950.  
 Burette, Automatic. S. D. Beard. No. 939,382; Nov. 9; Sp. p. 2087; Gaz. vol. 148; p. 348.  
 Burglar-alarm. J. Wells. No. 908,918; Jan. 5; Sp. p. 1003; Gaz. vol. 138; p. 161.  
 Burglar-alarm. H. Wettstein. No. 909,492; Jan. 12; Sp. p. 2143; Gaz. vol. 138; p. 380.  
 Burglar-alarm. C. E. C. Edey. No. 909,851; Jan. 12; Sp. p. 2843; Gaz. vol. 138; p. 501.  
 Burglar-alarm. C. G. Munsell. No. 913,669; Feb. 23; Sp. p. 5488; Gaz. vol. 139; p. 966.  
 Burglar-alarm. W. T. Anderson, Jr. No. 918,413; Apr. 13; Sp. p. 2938; Gaz. vol. 141; p. 518.  
 Burglar-alarm. W. N. Fawcett. No. 920,123; May 4; Sp. p. 70; Gaz. vol. 142; p. 9.  
 Burglar-alarm. H. Spencer. No. 920,681; May 4; Sp. p. 1205; Gaz. vol. 142; p. 194.  
 Burglar-alarm. E. Schwab. No. 923,712; June 1; Sp. p. 1323; Gaz. vol. 143; p. 205.  
 Burglar-alarm. J. B. Nash. No. 926,817; July 6; Sp. p. 224; Gaz. vol. 144; p. 37.  
 Burglar-alarm. W. A. Helphenstine. No. 928,754; July 20; Sp. p. 4256; Gaz. vol. 144; p. 741.  
 Burglar-alarm. S. B. Perry. No. 928,794; July 20; Sp. p. 4332; Gaz. vol. 144; p. 555.  
 Burglar-alarm. G. J. Deffner. No. 931,395; Aug. 17; Sp. p. 3758; Gaz. vol. 145; p. 648.  
 Burglar-alarm. A. Verhoeven. No. 932,358; Aug. 24; Sp. p. 5763; Gaz. vol. 145; p. 984.  
 Burglar-alarm. M. Korbel. No. 940,535; Nov. 16; Sp. p. 4643; Gaz. vol. 148; p. 774.  
 Burglar-alarm and automatic camera, Combined. J. C. Ashe. No. 943,232; Dec. 14; Sp. p. 2583; Gaz. vol. 149; p. 437.  
 Burglar alarm and signal system. G. M. Willis. No. 918,627; Apr. 20; Sp. p. 3416; Gaz. vol. 141; p. 617.  
 Burglar-alarm, Electric. A. Bloch. No. 913,684; Mar. 2; Sp. p. 10; Gaz. vol. 140; p. 5.  
 Burglar-alarm, Electric. M. Trautmann. No. 934,108; Sept. 14; Sp. p. 2327; Gaz. vol. 146; p. 382.  
 Burglar-alarm, Explosion. J. K. Rissel. No. 932,642; Aug. 31; Sp. p. 6388; Gaz. vol. 145; p. 1102.  
 Burglar-alarm for suit-cases, Satchels, &c. A. T. Ruthven. No. 919,385; Apr. 27; Sp. p. 5202; Gaz. vol. 141; p. 902.  
 Burglar-alarm screen. P. Orance. No. 943,368; Dec. 14; Sp. p. 2872; Gaz. vol. 149; p. 483.  
 Burglar-alarm systems, Time-controller for. M. F. Juruck. No. 944,733; Dec. 28; Sp. p. 5818; Gaz. vol. 149; p. 1007.  
 Burglar-proof lock. I. L. Bridges. No. 943,647; Dec. 21; Sp. p. 3510; Gaz. vol. 149; p. 611.  
 Burglar-screen. E. A. Wayland. No. 931,360; Aug. 17; Sp. p. 3679; Gaz. vol. 145; p. 636.  
 Burial case or vault. A. M. McCormick and W. W. Kridler. No. 916,182; Mar. 23; Sp. p. 5145; Gaz. vol. 140; p. 910.  
 Burial-casket. M. R. Johnson. No. 910,386; Jan. 19; Sp. p. 3991; Gaz. vol. 138; p. 717.



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- Burial-casket. T. Sosnowski. No. 922,819; May 25; Sp. p. 5618; Gaz. vol. 142; p. 984.  
 Burial-casket and vault therefor, Combined. J. Topol. No. 925,533; June 22; Sp. p. 5103; Gaz. vol. 143; p. 899.  
 Burial-crypt or vault. W. W. Fisk and M. D. Taft. No. 915,163; Mar. 16; Sp. p. 3135; Gaz. vol. 140; p. 550.  
 Burial-receptacle. J. H. Todd. No. 908,628; Jan. 5; Sp. p. 414; Gaz. vol. 138; p. 67.  
 Burial-robe. C. I. Owen. No. 935,398; Sept. 28; Sp. p. 4869; Gaz. vol. 146; p. 861.  
 Burial-shirt. C. C. Holcomb. No. 928,655; July 20; Sp. p. 4065; Gaz. vol. 144; p. 708.  
 Burial-vault. R. G. Weltner and G. R. Allebaugh. No. 916,074; Mar. 23; Sp. p. 4944; Gaz. vol. 140; p. 876.  
 Burial-vault door. F. S. Wisterman. No. 911,189; Feb. 2; Sp. p. 327; Gaz. vol. 139; p. 57.  
 Burial-vault-forming mold. A. O. Hunsaker. No. 914,417; Mar. 9; Sp. p. 1623; Gaz. vol. 140; p. 277.  
 Burial-vaults, Mold for forming. A. O. Hunsaker. No. 910,064; Jan. 19; Sp. p. 3284; Gaz. vol. 138; p. 605.  
 Buried alive, Apparatus for preventing human beings from being. A. de Choinski. No. 945,007; Dec. 28; Sp. p. 6398; Gaz. vol. 149; p. 1097.  
 Burner. *See* Acetylene-burner; Alcohol-burner; Blue-flame burner; Coal-dust burner; Cone-burner; Distillate-burner; Fuel-burner; Garbage-burner; Gas and oxygen burner; Gas or oil burner; Gasolene-burner; Hydrocarbon-burner; Incandescent burner; Inverted burner; Kerosene-burner; Lamp-burner; Lamp pressure-burner; Lantern-burner; Liquid-fuel burner; Oil-burner; Petroleum-burner; Plural-jet burner; Pressure-burner; Pyrographic burner; Railway-track grass-burner; Refuse-burner; Shield and burner; Spray-burner; Stump-burner; Sulfur-burner; Torch-burner; Vapor-burner; Welding-burner; Wick-burner.  
 Burner. I. F. Zimmerman. No. 908,636; Jan. 5; Sp. p. 433; Gaz. vol. 138; p. 70.  
 Burner. G. Cosmovici. No. 910,178; Jan. 19; Sp. p. 3526; Gaz. vol. 138; p. 642.  
 Burner. E. E. Billow. No. 910,267; Jan. 19; Sp. p. 3757; Gaz. vol. 138; p. 676.  
 Burner. E. De Loe. No. 913,706; Mar. 2; Sp. p. 58; Gaz. vol. 140; p. 12.  
 Burner. A. F. Bauer. No. 913,803; Mar. 2; Sp. p. 263; Gaz. vol. 140; p. 44.  
 Burner. F. A. Curtis. No. 917,261; Apr. 6; Sp. p. 623; Gaz. vol. 141; p. 106.  
 Burner. J. J. Kelly. No. 920,750; May 4; Sp. p. 1327; Gaz. vol. 142; p. 215.  
 Burner. J. N. Leach. No. 921,850; May 18; Sp. p. 3636; Gaz. vol. 142; p. 640.  
 Burner. A. C. Calkins. No. 929,076; July 27; Sp. p. 4914; Gaz. vol. 144; p. 876.  
 Burner. A. C. Calkins. No. 929,077; July 27; Sp. p. 4915; Gaz. vol. 144; p. 876.  
 Burner. T. S. Leese. No. 930,672; Aug. 10; Sp. p. 2155; Gaz. vol. 145; p. 376.  
 Burner. C. S. Chrisman. No. 933,019; Aug. 31; Sp. p. 7129; Gaz. vol. 145; p. 1225.  
 Burner. H. W. Schoff. No. 938,902; Nov. 2; Sp. p. 998; Gaz. vol. 148; p. 157.  
 Burner. R. D. Conrad and J. Gehring. No. 943,917; Dec. 21; Sp. p. 4060; Gaz. vol. 149; p. 703.  
 Burner. J. Gehring and R. D. Conrad. No. 943,927; Dec. 21; Sp. p. 4079; Gaz. vol. 149; p. 706.  
 Burner. J. Dlugopolsky. No. 944,324; Dec. 28; Sp. p. 4915; Gaz. vol. 149; p. 866.  
 Burner attachment. F. J. Farr. No. 937,989; Oct. 26; Sp. p. 4982; Gaz. vol. 147; p. 859.  
 Burner-controller, Automatic. J. W. Dearing. No. 914,023; Mar. 2; Sp. p. 803; Gaz. vol. 140; p. 123.  
 Burner for blast-flames. W. H. Schulte. No. 929,252; July 27; Sp. p. 5268; Gaz. vol. 144; p. 934.  
 Burner-vaporizer. C. Heinrichsdorff. No. 913,288; Feb. 23; Sp. p. 4668; Gaz. vol. 139; p. 837.  
 Burnishing-machine. M. Godlewski. No. 914,943; Mar. 9; Sp. p. 2682; Gaz. vol. 140; p. 450.  
 Burnishing-machine. H. Leibe. No. 934,553; Sept. 21; Sp. p. 3178; Gaz. vol. 146; p. 655.  
 Burnishing-machine. C. Koizek. No. 937,446; Oct. 19; Sp. p. 3876; Gaz. vol. 147; p. 659.  
 Bushing. H. J. Gilbert. No. 910,526; Jan. 26; Sp. p. 4292; Gaz. vol. 138; p. 788.  
 Bushing. E. Kaufmann. No. 923,273; June 1; Sp. p. 383; Gaz. vol. 143; p. 53.  
 Bushing and check-valve, Combined reducing. W. S. Jacobs. No. 941,713; Nov. 30; Sp. p. 7191; Gaz. vol. 148; p. 1212.  
 Bushing, Bung. F. Pfluger and E. Christensen. No. 944,378; Dec. 28; Sp. p. 5028; Gaz. vol. 149; p. 885.  
 Bushing cooler, Bung. T. B. Schimpf. No. 922,961; May 25; Sp. p. 5913; Gaz. vol. 142; p. 1030.  
 Bushing for bung-holes of beer-kegs. A. Speker and G. Schneider. No. 944,384; Dec. 28; Sp. p. 5040; Gaz. vol. 149; p. 887.  
 Bushing for pulleys, gears, and the like. H. G. Wolf. No. 941,602; Nov. 30; Sp. p. 6940; Gaz. vol. 148; p. 1174.  
 Bust-developer. J. G. Eganhouse. No. 938,856; Nov. 2; Sp. p. 864; Gaz. vol. 148; p. 139.  
 Bust-reducing attachment. J. M. Bodensiek. No. 933,739; Sept. 14; Sp. p. 1507; Gaz. vol. 146; p. 264.  
 Bust-supporter. E. A. Busby. No. 911,204; Feb. 2; Sp. p. 357; Gaz. vol. 139; p. 62.  
 Bust-supporter. J. M. Bodensiek. No. 912,793; Feb. 16; Sp. p. 3707; Gaz. vol. 139; p. 652.  
 Bust-supporter. A. Drake. No. 929,407; July 27; Sp. p. 5629; Gaz. vol. 144; p. 987.  
 Butcher's-block scraper. G. C. Bemis. No. 944,009; Dec. 21; Sp. p. 4265; Gaz. vol. 149; p. 734.  
 Butt-cutter. I. Jans and A. Lanaux. No. 912,850; Feb. 16; Sp. p. 3800; Gaz. vol. 139; p. 669.  
 Butt-hook. E. W. Smith. No. 923,722; June 1; Sp. p. 1335; Gaz. vol. 143; p. 208.  
 Butter and lard cutter. C. H. Carlson. No. 933,621; Sept. 7; Sp. p. 1350; Gaz. vol. 146; p. 201.  
 Butter and lard cutter. C. H. Carlson. No. 938,970; Nov. 2; Sp. p. 1123; Gaz. vol. 148; p. 180.  
 Butter and milk merging apparatus. B. N. Hawes. No. 933,558; Sept. 7; Sp. p. 1225; Gaz. vol. 146; p. 179.  
 Butter, Apparatus for the continuous manufacture of. A. H. Borgström. No. 938,815; Nov. 2; Sp. p. 785; Gaz. vol. 148; p. 126.  
 Butter compound, Making. J. E. Garrette. No. 909,781; Jan. 12; Sp. p. 2707; Gaz. vol. 138; p. 479.  
 Butter-cutter. J. G. and B. B. Carmichael. No. 915,935; Mar. 23; Sp. p. 4677; Gaz. vol. 140; p. 830.  
 Butter-cutter. F. G. Kapelman. No. 916,714; Mar. 30; Sp. p. 6195; Gaz. vol. 140; p. 1110.  
 Butter-cutter. F. J. Macnish and W. E. Fenn. No. 923,544; June 1; Sp. p. 949; Gaz. vol. 143; p. 147.  
 Butter-cutting machine. E. S. Wells. No. 925,542; June 22; Sp. p. 5119; Gaz. vol. 143; p. 902.  
 Butter-cutting machine. R. F. Stewart. No. 935,425; Sept. 28; Sp. p. 4919; Gaz. vol. 146; p. 869.  
 Butter-fat from milk, Apparatus for extracting. H. D. Cooke and A. Fornander. No. 917,008; Apr. 6; Sp. p. 85; Gaz. vol. 141; p. 20.  
 Butter, &c., Machine for cutting. D. M. Lemon. No. 927,734; July 13; Sp. p. 2141; Gaz. vol. 144; p. 371.  
 Butter, Making. C. G. Johnson. No. 909,802; Jan. 12; Sp. p. 2755; Gaz. vol. 138; p. 485.  
 Butter making and packaging apparatus. J. De Lisle. No. 943,603; Dec. 14; Sp. p. 3348; Gaz. vol. 149; p. 565.  
 Butter-making machine. R. Williams. No. 929,908; Aug. 3; Sp. p. 616; Gaz. vol. 145; p. 97.  
 Butter-making process. W. W. Wygal and C. L. Burgess. No. 930,713; Aug. 10; Sp. p. 2239; Gaz. vol. 145; p. 389.  
 Butter manufacture. E. Schou. No. 913,920; Mar. 2; Sp. p. 541; Gaz. vol. 140; p. 87.  
 Butter, Manufacture of. J. V. M. Risberg. No. 908,887; Jan. 5; Sp. p. 945; Gaz. vol. 138; p. 150.  
 Butter measurer and cutter. D. F. Curtin. No. 924,642; June 15; Sp. p. 3336; Gaz. vol. 143; p. 575.  
 Butter-merger. B. N. Hawes. No. 920,738; May 4; Sp. p. 1310; Gaz. vol. 142; p. 211.  
 Butter-mold. R. A. Simpson. No. 919,478; Apr. 27; Sp. p. 5426; Gaz. vol. 141; p. 934.  
 Butter-mold. W. S. Kennell. No. 923,853; June 8; Sp. p. 1698; Gaz. vol. 143; p. 282.  
 Butter molding and printing machine. F. Mellish. No. 932,043; Aug. 24; Sp. p. 5158; Gaz. vol. 145; p. 880.  
 Butter-packer. M. G. Olson. No. 930,787; Aug. 10; Sp. p. 2390; Gaz. vol. 145; p. 413.  
 Butter-pat-forming machine. I. Scott. No. 916,612; Mar. 30; Sp. p. 6020; Gaz. vol. 140; p. 1079.  
 Butter-server. O. W. Moberg. No. 927,158; July 6; Sp. p. 948; Gaz. vol. 144; p. 154.  
 Butter-treating apparatus. C. M. Nulf and G. M. Jackson. No. 940,716; Nov. 23; Sp. p. 5037; Gaz. vol. 148; p. 860.  
 Button. E. R. Hoppler. No. 909,598; Jan. 12; Sp. p. 2350; Gaz. vol. 138; p. 417.  
 Button. E. W. Haber. No. 912,843; Feb. 16; Sp. p. 3790; Gaz. vol. 139; p. 667.  
 Button. J. W. Schloss. No. 918,775; Apr. 20; Sp. p. 3768; Gaz. vol. 141; p. 668.  
 Button. J. J. Carmody. No. 918,960; Apr. 20; Sp. p. 4180; Gaz. vol. 141; p. 730.  
 Button. O. P. Talley. No. 926,515; June 29; Sp. p. 7125; Gaz. vol. 143; p. 1558.  
 Button-blank conveying and distributing machine. I. De Franciscl. No. 910,511; Jan. 26; Sp. p. 4265; Gaz. vol. 138; p. 783.  
 Button-blank-distributing-machine attachment. I. De Franciscl. No. 932,767; Aug. 31; Sp. p. 6652; Gaz. vol. 145; p. 1144.  
 Button, Collar. H. S. Hawks. No. 912,958; Feb. 16; Sp. p. 3985; Gaz. vol. 139; p. 702.  
 Button-covering machine. C. Wiebke. No. 915,141; Mar. 16; Sp. p. 3088; Gaz. vol. 140; p. 542.  
 Button, Cuff. E. W. Morehouse. No. 935,122; Sept. 28; Sp. p. 4331; Gaz. vol. 146; p. 773.  
 Button, Cuff. L. A. Gardner. No. 939,680; Nov. 9; Sp. p. 2725; Gaz. vol. 148; p. 450.  
 Button, Cuff. H. Ginnel. No. 942,635; Dec. 7; Sp. p. 1258; Gaz. vol. 149; p. 206.  
 Button-fastener. H. A. Mabhey. No. 924,807; June 15; Sp. p. 3681; Gaz. vol. 143; p. 631.  
 Button-fastener. A. Mickish. No. 927,574; July 13; Sp. p. 1777; Gaz. vol. 144; p. 318.  
 Button, Fastening. E. L. Watrous. No. 934,488; Sept. 21; Sp. p. 3065; Gaz. vol. 146; p. 534.  
 Button for cushion-seats, Tufting. L. A. Young. No. 920,514; May 4; Sp. p. 854; Gaz. vol. 142; p. 138.  
 Button for gloves, articles of clothing, shoes, and the like, Spring. H. Eberhardt. No. 921,524; May 11; Sp. p. 2938; Gaz. vol. 142; p. 505.  
 Button for suction-cups. H. R. Priest. No. 912,977; Feb. 16; Sp. p. 4035; Gaz. vol. 139; p. 708.  
 Button, Link cuff. E. W. Morehouse. No. 939,851; Nov. 9; Sp. p. 3080; Gaz. vol. 148; p. 538.  
 Button link or fastener. E. B. Bayliss. No. 926,383; June 29; Sp. p. 6891; Gaz. vol. 143; p. 1213.

*Alphabetical list of inventions—Continued.*

- Button-machine. W. H. Hargraves. No. 912,674; Feb. 16; Sp. p. 3401; Gaz. vol. 139; p. 610.  
 Button-making machine. S. Reinsberg. No. 917,487; Apr. 6; Sp. p. 1038; Gaz. vol. 141; p. 181.  
 Button-making machine. E. F. T. Lundquist. No. 918,177; Apr. 13; Sp. p. 2461; Gaz. vol. 141; p. 441.  
 Button-making machine. J. W. Miller. No. 919,914; Apr. 27; Sp. p. 6332; Gaz. vol. 141; p. 1081.  
 Button-making machine. R. B. Cochrane. No. 924,736; June 15; Sp. p. 3530; Gaz. vol. 143; p. 606.  
 Button-making machine. E. Shantz. No. 934,940; Sept. 21; Sp. p. 3952; Gaz. vol. 146; p. 686.  
 Button-making machine. A. C. Jones. No. 938,150; Oct. 26; Sp. p. 5338; Gaz. vol. 147; p. 912.  
 Button, Separable. E. A. Phinney. No. 918,588; Apr. 20; Sp. p. 3319; Gaz. vol. 141; p. 603.  
 Button, Separable. E. Noelle. No. 920,380; May 4; Sp. p. 595; Gaz. vol. 142; p. 95.  
 Button, Separable. E. C. Kaag. No. 925,193; June 15; Sp. p. 4462; Gaz. vol. 143; p. 762.  
 Button-setting instrument. J. F. Thayer. No. 942,473; Dec. 7; Sp. p. 935; Gaz. vol. 149; p. 151.  
 Button-setting machine. D. A. Carpenter. No. 908,952; Jan. 5; Sp. p. 1057; Gaz. vol. 138; p. 171.  
 Button-setting machine. C. Wooster. No. 909,047; Jan. 5; Sp. p. 1250; Gaz. vol. 138; p. 201.  
 Button, Shirt. C. R. Jacobs. No. 911,880; Feb. 9; Sp. p. 1665; Gaz. vol. 139; p. 309.  
 Buttons, buckles, &c., to boots, shoes, gaiters, &c., Machine for attaching. T. H. and W. H. Stringer. No. 919,791; Apr. 27; Sp. p. 6048; Gaz. vol. 141; p. 1040.  
 Buttons, Machine for the manufacture of. A. Prym. No. 916,593; Mar. 30; Sp. p. 5976; Gaz. vol. 140; p. 1072.  
 Buttons, Post for link-. C. C. Ball. No. 944,251; Dec. 28; Sp. p. 4747; Gaz. vol. 149; p. 840.  
 Buttons to fabric, Attaching. B. T. Leveque. No. 918,873; Apr. 20; Sp. p. 3984; Gaz. vol. 141; p. 700.  
 Buttons, &c., to fabric, Machine for attaching. A. R. Havener. No. 937,150; Oct. 19; Sp. p. 3218; Gaz. vol. 147; p. 563.  
 Buttonhole attachment, Substitute. F. Robertson. No. 939,092; Nov. 2; Sp. p. 1363; Gaz. vol. 148; p. 222.  
 Buttonhole-cutter. C. Anderson. No. 920,238; May 4; Sp. p. 293; Gaz. vol. 142; p. 47.  
 Buttonhole cutter. F. F. Roby. No. 942,519; Dec. 7; Sp. p. 1030; Gaz. vol. 149; p. 167.  
 Buttonhole-machine. H. C. Miller. No. 940,042; Nov. 16; Sp. p. 3530; Gaz. vol. 148; p. 604.  
 By-pass. E. Burhorn. No. 940,920; Nov. 23; Sp. p. 5469; Gaz. vol. 148; p. 927.  
 Cab-signal circuit. P. J. Simmen. No. 941,541; Nov. 30; Sp. p. 6820; Gaz. vol. 148; p. 1155.  
 Cab-ventilator. E. Smith. No. 910,023; Jan. 19; Sp. p. 3206; Gaz. vol. 138; p. 592.  
 Cabbage-core shredder. H. D. Wilson. No. 920,799; May 4; Sp. p. 1432; Gaz. vol. 142; p. 231.  
 Cabbages, Machine for splitting and core-slicing. L. Lecheler. No. 941,262; Nov. 23; Sp. p. 6207; Gaz. vol. 148; p. 1042.  
 Cabinet. I. H. Athey. No. 908,830; Jan. 5; Sp. p. 833; Gaz. vol. 138; p. 150.  
 Cabinet. C. B. Reese. No. 912,168; Feb. 9; Sp. p. 2322; Gaz. vol. 139; p. 402.  
 Cabinet. J. W. Schauer. No. 914,078; Mar. 2; Sp. p. 906; Gaz. vol. 140; p. 142.  
 Cabinet. E. Keltz. No. 916,326; Mar. 23; Sp. p. 5399; Gaz. vol. 140; p. 950.  
 Cabinet. F. A. Hayden. No. 921,543; May 11; Sp. p. 2971; Gaz. vol. 142; p. 510.  
 Cabinet. A. P. Hautsch. No. 923,837; June 8; Sp. p. 1672; Gaz. vol. 143; p. 277.  
 Cabinet. W. R. Wolf. No. 924,027; June 8; Sp. p. 2032; Gaz. vol. 143; p. 337.  
 Cabinet. A. H. Klug. No. 926,946; July 6; Sp. p. 497; Gaz. vol. 144; p. 81.  
 Cabinet. C. M. Hutchinson. No. 940,023; Nov. 16; Sp. p. 3459; Gaz. vol. 148; p. 597.  
 Cabinet, Account-book. F. A. Braum. No. 923,939; June 8; Sp. p. 1854; Gaz. vol. 143; p. 309.  
 Cabinet and display-rack, Combined. A. E. Baker. No. 939,199; Nov. 9; Sp. p. 1616; Gaz. vol. 148; p. 285.  
 Cabinet and show-case lock. W. R. Price. No. 909,933; Jan. 19; Sp. p. 3035; Gaz. vol. 138; p. 562.  
 Cabinet, Assorting-. F. F. Todd. No. 937,659; Oct. 19; Sp. p. 4276; Gaz. vol. 147; p. 730.  
 Cabinet, Barber's. R. A. Grieve. No. 934,521; Sept. 21; Sp. p. 3118; Gaz. vol. 146; p. 544.  
 Cabinet, Biscuit-. C. A. Salzman. No. 930,089; Aug. 3; Sp. p. 982; Gaz. vol. 145; p. 159.  
 Cabinet, Card-. G. B. Meloney. No. 926,204; June 29; Sp. p. 6541; Gaz. vol. 143; p. 1156.  
 Cabinet, Check-. D. E. and E. H. Ingle. No. 927,799; July 13; Sp. p. 2276; Gaz. vol. 144; p. 393.  
 Cabinet, Commodity-. J. H. Boye. No. 912,797; Feb. 16; Sp. p. 3714; Gaz. vol. 139; p. 653.  
 Cabinet, Composer's bracket-. F. J. Walker. No. 930,579; Aug. 10; Sp. p. 1966; Gaz. vol. 145; p. 346.  
 Cabinet, Corn-testing. C. B. Joslin. No. 910,825; Jan. 26; Sp. p. 4904; Gaz. vol. 138; p. 885.  
 Cabinet, Credit-. F. J. Peterson. No. 913,911; Mar. 2; Sp. p. 524; Gaz. vol. 140; p. 84.  
 Cabinet, Credit-. E. D. Troutman. (Reissue.) No. 12,942; Apr. 13; Sp. p. 3115; Gaz. vol. 141; p. 546.  
 Cabinet, Credit-. R. M. Vick. No. 942,387; Dec. 7; Sp. p. 738; Gaz. vol. 149; p. 121.  
 Cabinet, Disk-record. T. H. Sentell. No. 925,236; June 15; Sp. p. 4542; Gaz. vol. 143; p. 776.  
 Cabinet, Dispensing grocery-. R. F. Ballard. No. 921,941; May 18; Sp. p. 3803; Gaz. vol. 142; p. 669.  
 Cabinet, Douche-. S. Van Denburgh and J. H. Glismann. No. 920,225; May 4; Sp. p. 272; Gaz. vol. 142; p. 43.  
 Cabinet, Drawer-. J. J. Cannan. No. 922,852; May 25; Sp. p. 5678; Gaz. vol. 142; p. 995.  
 Cabinet, Envelop-. H. K. Smith. No. 941,736; Nov. 30; Sp. p. 7236; Gaz. vol. 148; p. 1220.  
 Cabinet, Filing-. H. L. Squires. No. 918,214; Apr. 13; Sp. p. 2550; Gaz. vol. 141; p. 454.  
 Cabinet, Filing-. J. J. Atkinson. No. 920,243; May 4; Sp. p. 318; Gaz. vol. 142; p. 50.  
 Cabinet, Filing-. A. Gaul, Jr. No. 921,822; May 18; Sp. p. 3565; Gaz. vol. 142; p. 631.  
 Cabinet, Filing-. G. Jacobs. No. 922,589; May 25; Sp. p. 5129; Gaz. vol. 142; p. 910.  
 Cabinet, Filing-. G. Jacobs. No. 922,590; May 25; Sp. p. 5132; Gaz. vol. 142; p. 910.  
 Cabinet, Filing-. G. Jacobs. No. 922,591; May 25; Sp. p. 5135; Gaz. vol. 142; p. 910.  
 Cabinet, Filing-. J. Dannheiser. No. 929,566; July 27; Sp. p. 5901; Gaz. vol. 144; p. 1037.  
 Cabinet, Folding and sliding safe-. I. J. Wing. No. 941,052; Nov. 23; Sp. p. 5756; Gaz. vol. 148; p. 971.  
 Cabinet for dispensing toilet-paper. A. H. Scott. No. 936,047; Oct. 5; Sp. p. 951; Gaz. vol. 147; p. 142.  
 Cabinet for drinking-cups, Sanitary. L. W. Farmer. No. 943,241; Dec. 14; Sp. p. 2601; Gaz. vol. 149; p. 440.  
 Cabinet for holding milk-bottles, &c. H. H. Choate. No. 937,510; Oct. 19; Sp. p. 4011; Gaz. vol. 147; p. 681.  
 Cabinet for the sacristy. R. A. McEachen. No. 931,462; Aug. 17; Sp. p. 3884; Gaz. vol. 145; p. 670.  
 Cabinet, Ironing-. J. W. Peterman. No. 930,491; Aug. 10; Sp. p. 1743; Gaz. vol. 145; p. 314.  
 Cabinet, Ironing-board. B. A. Stocking. No. 937,014; Oct. 12; Sp. p. 2933; Gaz. vol. 147; p. 488.  
 Cabinet, Kitchen-. R. W. Ribley and A. R. Clark. No. 911,159; Feb. 2; Sp. p. 269; Gaz. vol. 139; p. 47.  
 Cabinet, Kitchen-. R. H. Shook. No. 924,196; June 8; Sp. p. 2412; Gaz. vol. 143; p. 393.  
 Cabinet, Kitchen-. R. H. Shook. No. 924,197; June 8; Sp. p. 2413; Gaz. vol. 143; p. 394.  
 Cabinet, Knockdown. A. H. Evans. No. 920,937; May 11; Sp. p. 1730; Gaz. vol. 142; p. 307.  
 Cabinet, Knockdown. E. C. Blomberg. No. 921,582; May 11; Sp. p. 3037; Gaz. vol. 142; p. 522.  
 Cabinet, Lace-. R. A. Thornton. No. 919,398; Apr. 27; Sp. p. 5232; Gaz. vol. 141; p. 906.  
 Cabinet, Lace-. W. F. McCracken and J. G. Bradford. No. 944,687; Dec. 28; Sp. p. 5712; Gaz. vol. 149; p. 991.  
 Cabinet, Light-. C. F. McClure and W. I. Shuman. No. 940,544; Nov. 16; Sp. p. 4672; Gaz. vol. 148; p. 777.  
 Cabinet, Meal-. W. T. Grafton. No. 937,067; Oct. 19; Sp. p. 3043; Gaz. vol. 147; p. 535.  
 Cabinet, Measuring-. J. M. Sausser. No. 912,896; Feb. 16; Sp. p. 3871; Gaz. vol. 139; p. 683.  
 Cabinet, Metallic. G. Holden. No. 943,350; Dec. 14; Sp. p. 2841; Gaz. vol. 149; p. 477.  
 Cabinet, Panel-board. F. B. Adam. No. 929,812; Aug. 3; Sp. p. 388; Gaz. vol. 145; p. 65.  
 Cabinet, Record-. L. Schmidt. No. 924,002; June 8; Sp. p. 1987; Gaz. vol. 143; p. 329.  
 Cabinet, Revolving. M. Smith. No. 944,158; Dec. 21; Sp. p. 4566; Gaz. vol. 149; p. 784.  
 Cabinet, Revolving ribbon-. J. W. Van Patten. No. 934,774; Sept. 21; Sp. p. 3614; Gaz. vol. 146; p. 630.  
 Cabinet, Rural-free-delivery. W. A. Tomison. No. 910,880; Jan. 26; Sp. p. 5003; Gaz. vol. 138; p. 902.  
 Cabinet, Sectional file-. C. W. Pomeroy. No. 912,166; Feb. 9; Sp. p. 2318; Gaz. vol. 139; p. 402.  
 Cabinet, Stamp-. F. H. Chase. No. 920,913; May 11; Sp. p. 1679; Gaz. vol. 142; p. 299.  
 Cabinet, Swinging counter-. E. E. Constable. No. 928,941; July 27; Sp. p. 4634; Gaz. vol. 144; p. 832.  
 Cabinet, Towel-. R. T. Parisen. No. 940,717; Nov. 23; Sp. p. 5038; Gaz. vol. 148; p. 860.  
 Cabinet, Weight-. M. C. Brown. No. 936,406; Oct. 12; Sp. p. 1691; Gaz. vol. 147; p. 285.  
 Cabinet, Window-. W. C. McCready. No. 910,012; Jan. 19; Sp. p. 3187; Gaz. vol. 138; p. 588.  
 Cable-chain-grip systems, Switch for automatic. G. S. Fouts. No. 926,058; June 22; Sp. p. 6203; Gaz. vol. 143; p. 1071.  
 Cable choker-line, Log-hauling-. A. Opsal. No. 917,738; Apr. 6; Sp. p. 1510; Gaz. vol. 141; p. 264.  
 Cable-clamp. W. H. Kempton. No. 931,930; Aug. 24; Sp. p. 4903; Gaz. vol. 145; p. 842.  
 Cable clamp, Guy-rope-. L. H. Knapp. No. 919,026; Apr. 20; Sp. p. 4296; Gaz. vol. 141; p. 751.  
 Cable-connector. H. W. Cheney. No. 925,293; June 15; Sp. p. 4636; Gaz. vol. 143; p. 792.  
 Cable-conveyer-hoist. B. C. Riblet. No. 913,564; Feb. 23; Sp. p. 5264; Gaz. vol. 139; p. 932.  
 Cable-conveying apparatus, Automatic traveling take-up for. C. R. Libby. No. 944,565; Dec. 28; Sp. p. 5477; Gaz. vol. 149; p. 950.  
 Cable, Elastic wire. T. W. Colleran. No. 923,626; June 1; Sp. p. 1149; Gaz. vol. 143; p. 176.  
 Cable-grip. T. W. Tiley. No. 911,460; Feb. 2; Sp. p. 830; Gaz. vol. 139; p. 146.



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- Cable-grip. J. C. Dawson. No. 926,926; July 6; Sp. p. 460; Gaz. vol. 144; p. 75.  
 Cable-grip. J. F. Sallows. No. 940,732; Nov. 23; Sp. p. 5080; Gaz. vol. 148; p. 866.  
 Cable-hanger. C. L. Peirce, Jr. No. 909,448; Jan. 12; Sp. p. 2052; Gaz. vol. 138; p. 365.  
 Cable-hanger. J. E. Feiock. No. 927,032; July 6; Sp. p. 693; Gaz. vol. 144; p. 111.  
 Cable-hanger. W. J. Hiss, Jr. No. 934,808; Sept. 21; Sp. p. 3686; Gaz. vol. 146; p. 640.  
 Cable-hanger. C. L. Peirce, Jr. No. 941,039; Nov. 23; Sp. p. 5733; Gaz. vol. 148; p. 968.  
 Cable-hanger clamp. S. B. and G. B. Dushinberre. No. 931,399; Aug. 17; Sp. p. 3764; Gaz. vol. 145; p. 650.  
 Cable-hauling apparatus. F. Shaw. No. 938,174; Oct. 26; Sp. p. 5394; Gaz. vol. 147; p. 921.  
 Cable-joint, Self-soldering. W. Reid. No. 927,166; July 6; Sp. p. 965; Gaz. vol. 144; p. 157.  
 Cable-retaining mechanism for overhead carrier yokes and rollers. W. Gutenkunst. No. 931,860; Aug. 24; Sp. p. 4729; Gaz. vol. 145; p. 819.  
 Cable-squeezer. H. D. Robinson. No. 926,609; June 29; Sp. p. 7309; Gaz. vol. 143; p. 1289.  
 Cable-stripping machine. J. W. Gisriel. No. 923,426; June 1; Sp. p. 709; Gaz. vol. 143; p. 105.  
 Cable switch mechanism, Overhead-carrier. W. Gutenkunst. No. 931,861; Aug. 24; Sp. p. 4730; Gaz. vol. 145; p. 819.  
 Cable-tension holder. E. J. Hoode. No. 916,317; Mar. 23; Sp. p. 5384; Gaz. vol. 140; p. 956.  
 Cable-terminal. F. B. Cook. No. 913,264; Feb. 23; Sp. p. 4625; Gaz. vol. 139; p. 830.  
 Cable-terminal. F. B. Cook. No. 928,428; July 20; Sp. p. 3591; Gaz. vol. 144; p. 635.  
 Cable terminal, Electric. C. W. Davis. No. 926,857; July 6; Sp. p. 324; Gaz. vol. 144; p. 52.  
 Cable-thimble. O. E. Strehlow. No. 938,086; Oct. 26; Sp. p. 5203; Gaz. vol. 147; p. 891.  
 Cable-threading head. F. S. Woodward. No. 929,528; July 27; Sp. p. 5832; Gaz. vol. 144; p. 1025.  
 Cable-lightening device. C. Krämer. No. 916,721; Mar. 30; Sp. p. 6208; Gaz. vol. 140; p. 1111.  
 Cable traction apparatus. C. J. Eastman. No. 938,655; Nov. 2; Sp. p. 462; Gaz. vol. 148; p. 71.  
 Cable-tramway grip mechanism. R. D. Seymour. No. 913,775; Mar. 2; Sp. p. 209; Gaz. vol. 140; p. 35.  
 Cable-wheel, Expanding. M. Garland. No. 924,338; June 8; Sp. p. 2715; Gaz. vol. 143; p. 442.  
 Cables, Clamping mechanism for litter-supporting. W. Gutenkunst. No. 938,847; Nov. 2; Sp. p. 850; Gaz. vol. 148; p. 137.  
 Cables or conductors, Machine for making. G. R. Kress. No. 936,728; Oct. 12; Sp. p. 2371; Gaz. vol. 147; p. 394.  
 Cables through pipe-lines, Device for passing. H. A. Greenan. No. 920,455; May 4; Sp. p. 737; Gaz. vol. 142; p. 118.  
 Cableway. T. S. Miller. No. 942,038; Nov. 30; Sp. p. 7846; Gaz. vol. 148; p. 1322.  
 Cableway. T. S. Miller. No. 943,032; Dec. 14; Sp. p. 2165; Gaz. vol. 149; p. 370.  
 Cableway, Portable. J. H. Dickinson. No. 936,425; Oct. 12; Sp. p. 1742; Gaz. vol. 147; p. 291.  
 Caddy, Grocer's. G. A. Schmid. No. 932,062; Aug. 24; Sp. p. 5193; Gaz. vol. 145; p. 886.  
 Cage, Breeder's. T. H. Knaak. No. 928,463; July 20; Sp. p. 3676; Gaz. vol. 144; p. 646.  
 Cage-lock. J. W. Unger. No. 916,380; Mar. 23; Sp. p. 5503; Gaz. vol. 140; p. 977.  
 Cage, Portable convict-. D. F. Youngblood. No. 922,993; May 25; Sp. p. 5963; Gaz. vol. 142; p. 1040.  
 Cager and sump-guard. G. Holmes. No. 931,203; Aug. 17; Sp. p. 3342; Gaz. vol. 145; p. 581.  
 Caissons, Shafting for. C. P. Downing. No. 932,770; Aug. 31; Sp. p. 6671; Gaz. vol. 145; p. 1145.  
 Cake and pie box. G. W. Fardon. No. 918,742; Apr. 20; Sp. p. 3708; Gaz. vol. 141; p. 658.  
 Cake-coating machine. P. D. Harton. No. 910,812; Jan. 26; Sp. p. 4884; Gaz. vol. 138; p. 881.  
 Cake-coating machine. P. D. Harton and C. F. Crelier. No. 935,975; Oct. 5; Sp. p. 800; Gaz. vol. 147; p. 118.  
 Cake-coating machine. P. D. Harton. No. 939,836; Nov. 9; Sp. p. 3050; Gaz. vol. 148; p. 504.  
 Cake-coating machinery. G. I. and C. E. Mossop. No. 927,576; July 13; Sp. p. 1780; Gaz. vol. 144; p. 319.  
 Cake-former. A. Fredrickson. No. 916,855; Mar. 30; Sp. p. 6451; Gaz. vol. 140; p. 1152.  
 Cake-icing machine. J. H. Mitchell. No. 916,753; Mar. 30; Sp. p. 6257; Gaz. vol. 140; p. 1119.  
 Cake-machine. C. G. Tucker. No. 911,851; Feb. 9; Sp. p. 1612; Gaz. vol. 139; p. 299.  
 Cake-mixer. C. W. Hotman. No. 911,985; Feb. 9; Sp. p. 1966; Gaz. vol. 139; p. 345.  
 Cake-press. E. Erickson. No. 914,711; Mar. 9; Sp. p. 2227; Gaz. vol. 140; p. 374.  
 Cake-turner. C. H. Hacker. No. 937,520; Oct. 19; Sp. p. 4032; Gaz. vol. 147; p. 685.  
 Cake turner, Pan-. F. Cottet. No. 924,535; June 8; Sp. p. 3094; Gaz. vol. 143; p. 506.  
 Calcareous artificial-stone substances by means of carbonic acid, Hardening. E. Schwanenberg and A. Rinne. No. 911,547; Feb. 2; Sp. p. 993; Gaz. vol. 139; p. 173.  
 Calcimine, Sanitary. C. Ellis. No. 919,560; Apr. 27; Sp. p. 5597; Gaz. vol. 141; p. 962.  
 Calcination, Process of. J. C. Heckman. No. 922,425; May 18; Sp. p. 4773; Gaz. vol. 142; p. 828.  
 Calcium carbide, Process and apparatus for making. J. S. Seymour. No. 916,495; Mar. 30; Sp. p. 5776; Gaz. vol. 140; p. 1040.  
 Calcium silicid, Producing. T. L. Wilson and M. M. Haff. No. 934,379; Sept. 14; Sp. p. 2843; Gaz. vol. 146; p. 474.  
 Calculating appliance. G. W. Evans-Cross. No. 913,483; Feb. 23; Sp. p. 5056; Gaz. vol. 139; p. 903.  
 Calculating device. S. R. Lamb. No. 909,621; Jan. 12; Sp. p. 2399; Gaz. vol. 138; p. 425.  
 Calculating device. R. H. Fenn. No. 922,465; May 25; Sp. p. 4880; Gaz. vol. 142; p. 869.  
 Calculating device. C. H. Miller. No. 942,579; Dec. 7; Sp. p. 1145; Gaz. vol. 149; p. 186.  
 Calculating device. P. W. Sommer. No. 944,218; Dec. 21; Sp. p. 4672; Gaz. vol. 149; p. 801.  
 Calculating device for electrical data, &c. L. E. Graves. No. 924,058; June 8; Sp. p. 2080; Gaz. vol. 143; p. 346.  
 Calculating implement. E. J. Brandt. No. 941,004; Nov. 23; Sp. p. 5653; Gaz. vol. 148; p. 955.  
 Calculating-machine. W. R. Bonham. No. 908,731; Jan. 5; Sp. p. 643; Gaz. vol. 138; p. 100.  
 Calculating-machine. W. P. Quantell. No. 912,729; Feb. 16; Sp. p. 3569; Gaz. vol. 139; p. 630.  
 Calculating-machine. C. A. Mellicke. No. 914,439; Mar. 9; Sp. p. 1663; Gaz. vol. 140; p. 284.  
 Calculating-machine. L. D. Roberts. No. 917,134; Apr. 6; Sp. p. 361; Gaz. vol. 141; p. 63.  
 Calculating-machine. J. C. McLeland. No. 918,766; Apr. 20; Sp. p. 3748; Gaz. vol. 141; p. 665.  
 Calculating-machine. A. A. Dreyfus and A. H. V. Levy. No. 920,840; May 4; Sp. p. 1510; Gaz. vol. 142; p. 244.  
 Calculating-machine. C. H. Herzog. No. 924,066; June 8; Sp. p. 2095; Gaz. vol. 143; p. 349.  
 Calculating-machine. A. J. Meier. No. 924,256; June 8; Sp. p. 2541; Gaz. vol. 143; p. 414.  
 Calculating-machine. C. D. Ward. No. 924,298; June 8; Sp. p. 2630; Gaz. vol. 143; p. 428.  
 Calculating-machine. J. D. Hayes. No. 925,183; June 15; Sp. p. 4444; Gaz. vol. 143; p. 758.  
 Calculating-machine. A. C. Cornelison. No. 927,452; July 6; Sp. p. 1513; Gaz. vol. 144; p. 251.  
 Calculating-machine. F. Trinks. No. 928,083; July 13; Sp. p. 2857; Gaz. vol. 144; p. 487.  
 Calculating-machine. A. J. Meier. No. 928,873; July 20; Sp. p. 4489; Gaz. vol. 144; p. 782.  
 Calculating-machine. A. G. Meier. No. 929,317; July 27; Sp. p. 5447; Gaz. vol. 144; p. 958.  
 Calculating-machine. A. Monachimoff. No. 930,211; Aug. 3; Sp. p. 1213; Gaz. vol. 145; p. 199.  
 Calculating-machine. A. A. Dreyfus and A. H. V. Lévy. No. 932,255; Aug. 24; Sp. p. 5576; Gaz. vol. 145; p. 950.  
 Calculating-machine. C. L. Nelson. No. 933,486; Sept. 7; Sp. p. 1079; Gaz. vol. 146; p. 156.  
 Calculating-machine. F. Trinks. No. 935,565; Sept. 28; Sp. p. 5226; Gaz. vol. 146; p. 917.  
 Calculating-machine. H. Kuentszler. No. 937,249; Oct. 19; Sp. p. 3442; Gaz. vol. 147; p. 595.  
 Calculating-machine. J. Bricken. No. 938,550; Nov. 2; Sp. p. 248; Gaz. vol. 148; p. 37.  
 Calculating-machine. R. Rein. No. 938,790; Nov. 2; Sp. p. 728; Gaz. vol. 148; p. 118.  
 Calculating-machine. R. Rein. No. 938,791; Nov. 2; Sp. p. 730; Gaz. vol. 148; p. 118.  
 Calculating-machine. J. Bricken. No. 943,514; Dec. 14; Sp. p. 3185; Gaz. vol. 149; p. 535.  
 Calculating-machine. C. A. Mellicke. No. 943,984; Dec. 21; Sp. p. 4194; Gaz. vol. 149; p. 725.  
 Calculating-machine. T. Baueerle. No. 944,762; Dec. 28; Sp. p. 5899; Gaz. vol. 149; p. 1017.  
 Calculating-machine. A. Bollinger, A. and E. Landry. No. 944,841; Dec. 28; Sp. p. 6063; Gaz. vol. 149; p. 1043.  
 Calculating-machine attachment. T. J. Falvey. No. 910,806; Jan. 26; Sp. p. 4871; Gaz. vol. 138; p. 880.  
 Calculating-machine ribbon mechanism. A. Pentecost. No. 912,162; Feb. 9; Sp. p. 2311; Gaz. vol. 139; p. 400.  
 Calculating-machines, Index-plate for. J. Graber. No. 941,774; Nov. 30; Sp. p. 7322; Gaz. vol. 148; p. 1234.  
 Calculating-machines, Number-wheel lock for. W. L. Dench. No. 942,487; Dec. 7; Sp. p. 962; Gaz. vol. 149; p. 155.  
 Calculating-machines, Setting device for. J. Graber. No. 934,401; Sept. 14; Sp. p. 2884; Gaz. vol. 146; p. 482.  
 Calculating-machines with two counting mechanisms, Controlling device for. R. Rein. No. 934,756; Sept. 21; Sp. p. 3576; p. 623.  
 Calculating sheet, Interest and time. W. Sparklin. No. 927,693; July 13; Sp. p. 2068; Gaz. vol. 144; p. 359.  
 Calculator. A. G. Meier. No. 914,741; Mar. 9; Sp. p. 2299; Gaz. vol. 140; p. 284.  
 Calculator. F. J. Kristofek. No. 916,563; Mar. 30; Sp. p. 5922; Gaz. vol. 140; p. 1062.  
 Calculator. J. M. Mason. No. 923,981; June 8; Sp. p. 1944; Gaz. vol. 143; p. 393.  
 Calculator. G. W. Goss. No. 943,779; Dec. 21; Sp. p. 3763; Gaz. vol. 149; p. 655.  
 Calendar. W. H. Hall. No. 909,290; Jan. 12; Sp. p. 1750; Gaz. vol. 138; p. 315.  
 Calendar. H. B. Young. No. 926,799; July 6; Sp. p. 191; Gaz. vol. 144; p. 32.  
 Calendar. E. C. Mahon. No. 941,719; Nov. 30; Sp. p. 7202; Gaz. vol. 148; p. 1214.  
 Calendar for collection purposes. W. B. Crumpton. No. 944,952; Dec. 28; Sp. p. 6279; Gaz. vol. 149; p. 1079.

*Alphabetical list of inventions—Continued.*

- Calendar frame and card. W. H. Hall. No. 909,291; Jan. 12; Sp. p. 1753; Gaz. vol. 138; p. 315.
- Calendar-pad. H. T. Avery. No. 936,848; Oct. 12; Sp. p. 2602; Gaz. vol. 147; p. 434.
- Calendar pad and stand, Memorandum. W. M. Chamberlin, Jr. No. 926,853; July 6; Sp. p. 319; Gaz. vol. 144; p. 51.
- Calendar, Perpetual. D. S. Rowe. No. 915,222; Mar. 16; Sp. p. 3250; Gaz. vol. 140; p. 568.
- Calendar, Perpetual. J. F. Stimson. No. 916,051; Mar. 23; Sp. p. 4902; Gaz. vol. 140; p. 868.
- Calendar, Perpetual. S. M. Stroock and B. U. Hirsh. No. 922,063; May 18; Sp. p. 4054; Gaz. vol. 142; p. 709.
- Calendar standard, Desk-. F. A. Hale. No. 916,550; Mar. 30; Sp. p. 5901; Gaz. vol. 140; p. 1059.
- Calendar tear-off tablet. A. Biberfeld. No. 924,879; June 15; Sp. p. 3833; Gaz. vol. 143; p. 655.
- Calender, Cloth-. G. J. Potman. No. 937,546; Oct. 19; Sp. p. 4087; Gaz. vol. 147; p. 694.
- Calif-muzzle. P. C. Roberts. No. 914,881; Mar. 9; Sp. p. 2583; Gaz. vol. 140; p. 430.
- Calif-weaner. L. E. Dyke. No. 915,083; Mar. 16; Sp. p. 2938; Gaz. vol. 140; p. 522.
- Caliper-gage. E. F. Hathaway. No. 931,759; Aug. 24; Sp. p. 4524; Gaz. vol. 145; p. 787.
- Calipers. J. F. Irish. No. 921,407; May 11; Sp. p. 2708; Gaz. vol. 142; p. 465.
- Calipers. J. S. Hughes. No. 924,073; June 8; Sp. p. 2112; Gaz. vol. 143; p. 352.
- Calipers. O. F. Olson. No. 936,024; Oct. 5; Sp. p. 898; Gaz. vol. 147; p. 135.
- Calipers. G. T. Young and A. H. Gleason. No. 942,529; Dec. 7; Sp. p. 1052; Gaz. vol. 149; p. 170.
- Calipers, Double self-reporting. J. A. Petit. No. 915,473; Mar. 16; Sp. p. 3738; Gaz. vol. 140; p. 650.
- Calk, Detachable. W. J. Koontz. No. 915,970; Mar. 23; Sp. p. 4756; Gaz. vol. 140; p. 842.
- Calk, Removable. G. S. Meyer. No. 934,197; Sept. 14; Sp. p. 2507; Gaz. vol. 146; p. 413.
- Calks, Making steel-center. J. R. Williams. No. 939,884; Nov. 9; Sp. p. 3149; Gaz. vol. 148; p. 519.
- Calks on horseshoes, Machine for forming and sharpening. V. T. Snover and M. H. Palmer. No. 933,995; Sept. 14; Sp. p. 2095; Gaz. vol. 146; p. 345.
- Calking-tool, Right and left. A. Serfoss. No. 938,173; Oct. 26; Sp. p. 5393; Gaz. vol. 147; p. 921.
- Call-box. H. S. Bullock, Jr. No. 932,753; Aug. 31; Sp. p. 6616; Gaz. vol. 145; p. 1139.
- Call-signal, Grocer's or other merchant's. A. L. Philbrick. No. 937,264; Oct. 19; Sp. p. 3475; Gaz. vol. 147; p. 600.
- Callopie, Pneumatic. S. V. Day. No. 908,968; Jan. 5; Sp. p. 1089; Gaz. vol. 138; p. 176.
- Caloric-engine. C. L. Fortier. No. 914,562; Mar. 9; Sp. p. 1910; Gaz. vol. 140; p. 325.
- Caloric-engine. L. G. Woolley. No. 925,975; June 22; Sp. p. 6042; Gaz. vol. 143; p. 1044.
- Calorimeter. C. J. Emerson. No. 931,189; Aug. 17; Sp. p. 3302; Gaz. vol. 145; p. 575.
- Calyx-repair device. J. A. Magruder. No. 910,300; Jan. 19; Sp. p. 3820; Gaz. vol. 138; p. 688.
- Cam. H. Hartt. No. 916,702; Mar. 30; Sp. p. 6178; Gaz. vol. 140; p. 1106.
- Cam-wheel, Adjustable. G. H. Mallam. No. 908,790; Jan. 5; Sp. p. 749; Gaz. vol. 138; p. 118.
- Camera. B. O. Walker. No. 910,750; Jan. 26; Sp. p. 4763; Gaz. vol. 138; p. 861.
- Camera. J. A. Robertson. No. 917,135; Apr. 6; Sp. p. 366; Gaz. vol. 141; p. 63.
- Camera. A. M. Henry. No. 923,173; June 1; Sp. p. 116; Gaz. vol. 143; p. 18.
- Camera. W. F. Folmer. No. 923,827; June 8; Sp. p. 1651; Gaz. vol. 143; p. 274.
- Camera. G. W. Curtiss. No. 924,147; June 8; Sp. p. 2275; Gaz. vol. 143; p. 376.
- Camera. A. W. Straight. No. 927,897; July 13; Sp. p. 2496; Gaz. vol. 144; p. 426.
- Camera. F. A. Anthony. No. 929,648; Aug. 3; Sp. p. 4; Gaz. vol. 145; p. 3.
- Camera. A. L. Richardson. No. 932,326; Aug. 24; Sp. p. 5707; Gaz. vol. 145; p. 974.
- Camera. W. F. Folmer. No. 932,457; Aug. 31; Sp. p. 5960; Gaz. vol. 145; p. 1039.
- Camera. I. O. Perring. No. 941,688; Nov. 30; Sp. p. 7121; Gaz. vol. 148; p. 1203.
- Camera. H. W. Conner. No. 941,696; Nov. 30; Sp. p. 7144; Gaz. vol. 148; p. 1206.
- Camera attachment. H. G. Korinko and A. J. Asp. No. 933,312; Sept. 7; Sp. p. 629; Gaz. vol. 146; p. 98.
- Camera-back. T. W. Ingersoll. No. 929,671; Aug. 3; Sp. p. 54; Gaz. vol. 145; p. 12.
- Camera-back. R. Kroedel. No. 933,470; Sept. 7; Sp. p. 997; Gaz. vol. 146; p. 150.
- Camera enlarging attachment. C. F. Adlon. No. 920,516; May 4; Sp. p. 857; Gaz. vol. 142; p. 138.
- Camera film-pack holder. A. H. Wright. No. 908,531; Jan. 5; Sp. p. 209; Gaz. vol. 138; p. 36.
- Camera-finder. W. E. Shanley. No. 916,205; Mar. 23; Sp. p. 5185; Gaz. vol. 140; p. 918.
- Camera-finder. J. A. Robertson. No. 937,266; Oct. 19; Sp. p. 3478; Gaz. vol. 147; p. 601.
- Camera focusing attachment. W. F. Folmer. No. 911,001; Jan. 26; Sp. p. 5225; Gaz. vol. 138; p. 941.
- Camera focusing attachment. W. F. Folmer. No. 922,411; May 18; Sp. p. 4749; Gaz. vol. 142; p. 823.
- Camera-focusing device. R. Kroedel. No. 917,079; Apr. 6; Sp. p. 236; Gaz. vol. 141; p. 43.
- Camera focusing-hood. E. P. Comrie. No. 936,307; Oct. 12; Sp. p. 1457; Gaz. vol. 147; p. 252.
- Camera, Foldable reflex-. E. Brauburger. No. 913,353; Feb. 23; Sp. p. 4801; Gaz. vol. 139; p. 860.
- Camera mechanism, Photographic-. W. Verbeck. No. 933,801; Sept. 14; Sp. p. 1702; Gaz. vol. 146; p. 282.
- Camera, Motion-picture. O. B. Depue and C. F. Jenkins. No. 934,894; Sept. 21; Sp. p. 3852; Gaz. vol. 146; p. 669.
- Camera, Moving-picture. H. Meredith-Jones. No. 943,253; Dec. 14; Sp. p. 2625; Gaz. vol. 149; p. 445.
- Camera, Photographic. L. Borsum. No. 914,784; Mar. 9; Sp. p. 2376; Gaz. vol. 140; p. 399.
- Camera, Photographic. G. Vogt and G. Dietz. No. 926,912; July 6; Sp. p. 435; Gaz. vol. 144; p. 70.
- Camera, Photographic. C. E. Hutchings. No. 932,392; Aug. 24; Sp. p. 5824; Gaz. vol. 145; p. 995.
- Camera, Photographic. E. Brauburger. No. 944,595; Dec. 28; Sp. p. 5542; Gaz. vol. 149; p. 961.
- Camera-shutter-operating device, Chronometric. W. M. Martin and A. P. Petri. No. 916,346; Mar. 23; Sp. p. 5439; Gaz. vol. 140; p. 966.
- Camera-stand, Photographer's. J. E. Harrod. No. 920,135; May 4; Sp. p. 91; Gaz. vol. 142; p. 13.
- Camera-tripod. W. C. Evans. No. 916,286; Mar. 23; Sp. p. 5330; Gaz. vol. 140; p. 944.
- Cameras, Combined shutter and finder for photographic. J. A. Meiser. No. 924,088; June 8; Sp. p. 2134; Gaz. vol. 143; p. 356.
- Cameras, Magazine plate-holder for. E. L. C. Morse. No. 927,063; July 6; Sp. p. 769; Gaz. vol. 144; p. 122.
- Cameras, Magazine plate-holder for photographic. R. J. and J. A. London. No. 926,662; June 29; Sp. p. 7405; Gaz. vol. 143; p. 1306.
- Cameras, Roller-blind for photographic. E. Brauburger. No. 941,126; Nov. 23; Sp. p. 5920; Gaz. vol. 148; p. 996.
- Camp-chair, Portable. W. J. Curry. No. 926,472; June 29; Sp. p. 7049; Gaz. vol. 143; p. 1243.
- Camp, Portable. G. R. Starnes. No. 926,683; June 29; Sp. p. 7448; Gaz. vol. 143; p. 1313.
- Camphene, Preparation of. O. L. A. Dubosc. No. 937,928; Oct. 26; Sp. p. 4859; Gaz. vol. 147; p. 839.
- Camphene, Producing. C. Glaser. No. 923,967; June 8; Sp. p. 1911; Gaz. vol. 143; p. 319.
- Camphor, Making. C. Glaser. (Reissue.) No. 13,001; Aug. 3; Sp. p. 1433; Gaz. vol. 145; p. 238.
- Camping device, Canvas. A. G. Lukenbill. No. 923,391; July 20; Sp. p. 3528; Gaz. vol. 144; p. 623.
- Can: See Ash-can; Blowing-can; Compartment-can; Containing-can; Display-can; Filling-can; Folded-corner can; Garbage-can; Garbage and like can; Ice-cream can; Jacket-can; Milk-can; Milk and cream can; Oil-can; Paint-can; Paper-can; Powder-container and measuring can; Preserving-can; Refrigerator-can; Refuse-can; Self-sealing can; Sheet-metal can; Shipping-can; Sifter-top can; Sliver-can; Swill-can.
- Can. C. Ruchti. No. 909,230; Jan. 12; Sp. p. 1639; Gaz. vol. 138; p. 295.
- Can. J. U. Barr. No. 912,526; Feb. 16; Sp. p. 3111; Gaz. vol. 139; p. 559.
- Can. C. D. Henriques. No. 922,896; May 25; Sp. p. 5788; Gaz. vol. 142; p. 1009.
- Can. W. Strathmann. No. 924,507; June 8; Sp. p. 3032; Gaz. vol. 143; p. 496.
- Can. C. E. Bertels. No. 926,461; June 29; Sp. p. 7034; Gaz. vol. 143; p. 1240.
- Can. J. G. Swain. No. 928,561; July 20; Sp. p. 3866; Gaz. vol. 144; p. 676.
- Can attachment. R. Dow. No. 910,182; Jan. 19; Sp. p. 3535; Gaz. vol. 138; p. 644.
- Can attachment, Oil-. P. Cowgill. No. 925,870; June 22; Sp. p. 5844; Gaz. vol. 143; p. 1010.
- Can-blank-forming machine. S. and C. H. Hookey. No. 917,296; Apr. 6; Sp. p. 697; Gaz. vol. 141; p. 119.
- Can-body and blank therefor. F. Wegner. No. 923,741; June 1; Sp. p. 1372; Gaz. vol. 143; p. 214.
- Can-body forming and soldering machine. J. Eldridge. No. 925,883; June 22; Sp. p. 5866; Gaz. vol. 143; p. 1014.
- Can-body-forming machine. W. W. Jones. No. 941,076; Nov. 23; Sp. p. 5804; Gaz. vol. 148; p. 979.
- Can-body machine, Automatic-feed. W. E. Taylor. No. 942,190; Dec. 7; Sp. p. 347; Gaz. vol. 149; p. 53.
- Can-body-making machine. J. C. Donnelly. No. 919,557; Apr. 27; Sp. p. 5589; Gaz. vol. 141; p. 961.
- Can-body-making machine. F. Wegner. No. 923,740; June 1; Sp. p. 1368; Gaz. vol. 143; p. 214.
- Can-bottoms, Machine for applying. J. C. Thom. No. 939,454; Nov. 9; Sp. p. 2238; Gaz. vol. 148; p. 372.
- Can-cap dropper. E. M. Cobb. No. 941,357; Nov. 30; Sp. p. 6419; Gaz. vol. 148; p. 1094.
- Can-cap, Solder-charged. J. G. Hodgson. No. 928,975; July 27; Sp. p. 4700; Gaz. vol. 144; p. 843.
- Can-caps and can ends from sheet metal, Cutting. B. H. Larkin. No. 944,793; Dec. 28; Sp. p. 5954; Gaz. vol. 149; p. 1026.
- Can-caps, Machine for applying cement to. W. F. Butler. No. 938,460; Nov. 2; Sp. p. 15; Gaz. vol. 148; p. 5.
- Can-capping machine. V. Campbell. No. 912,539; Feb. 16; Sp. p. 3141; Gaz. vol. 139; p. 563.
- Can-capping machine. G. W. E. Brooks. No. 931,262; Aug. 17; Sp. p. 3462; Gaz. vol. 145; p. 601.
- Can-capping machine. F. J. Heybach. No. 935,505; Sept. 28; Sp. p. 5083; Gaz. vol. 146; p. 896.



*Alphabetical list of inventions—Continued.*

- Can-closing device. J. H. Pelletier. No. 941,533; Nov. 30; Sp. p. 6804; Gaz. vol. 148; p. 1152.  
 Can-closing machine. C. M. Symonds. No. 934,371; Sept. 14; Sp. p. 2822; Gaz. vol. 146; p. 471.  
 Can-closing-machine blank-feed mechanism. O. Dempewolf. No. 913,628; Feb. 23; Sp. p. 5402; Gaz. vol. 139; p. 953.  
 Can-closure. G. Lauterback. No. 925,201; June 15; Sp. p. 4477; Gaz. vol. 143; p. 764.  
 Can-closure. W. J. Card. No. 934,792; Sept. 21; Sp. p. 3659; Gaz. vol. 146; p. 636.  
 Can-closure fastener. S. B. Thomas. No. 944,297; Dec. 28; Sp. p. 4853; Gaz. vol. 149; p. 856.  
 Can closure, Powder-. G. W. Childs. No. 940,128; Nov. 16; Sp. p. 3733; Gaz. vol. 148; p. 635.  
 Can coating or lacquering machine. J. G. Hodgson. No. 932,609; Aug. 31; Sp. p. 6321; Gaz. vol. 145; p. 1091.  
 Can cover. B. J. Hartwell. No. 933,302; Sept. 7; Sp. p. 614; Gaz. vol. 146; p. 95.  
 Can cover, Ash-. F. H. Doane. No. 918,295; Apr. 13; Sp. p. 2714; Gaz. vol. 141; p. 480.  
 Can-cover-coating machine. L. C. Sharp. No. 930,802; Aug. 10; Sp. p. 2416; Gaz. vol. 145; p. 419.  
 Can-cover-coating machine. G. W. F. Weber, F. Eberhart, and E. V. Swangren. No. 938,529; Nov. 2; Sp. p. 200; Gaz. vol. 148; p. 28.  
 Can cover, Oil-waste-. P. Anderson. No. 936,509; Oct. 12; Sp. p. 1930; Gaz. vol. 147; p. 318.  
 Can covers, Apparatus for cleansing, sterilizing, and drying milk-. C. H. Hood. No. 934,404; Sept. 14; Sp. p. 2893; Gaz. vol. 146; p. 483.  
 Can cover, Milk-. A. W. Brand. No. 910,169; Jan. 19; Sp. p. 3496; Gaz. vol. 138; p. 639.  
 Can cover, Milk-. R. Bray. No. 915,825; Mar. 23; Sp. p. 4480; Gaz. vol. 140; p. 794.  
 Can cover, Milk-. T. Bray. No. 915,931; Mar. 23; Sp. p. 4672; Gaz. vol. 140; p. 829.  
 Can cutter and tapping valve, Oil-. W. M. Curtis. No. 938,644; Nov. 2; Sp. p. 438; Gaz. vol. 148; p. 68.  
 Can drier, Labeled-. R. Schilling. No. 938,713; Nov. 2; Sp. p. 575; Gaz. vol. 148; p. 90.  
 Can ends, Runway for. J. F. Wing. No. 928,725; July 20; Sp. p. 4197; Gaz. vol. 144; p. 731.  
 Can-feeder. W. Spain. No. 944,828; Dec. 28; Sp. p. 6038; Gaz. vol. 149; p. 1039.  
 Can feeding and righting machine. M. D. Blakeslee. No. 934,134; Sept. 14; Sp. p. 2389; Gaz. vol. 146; p. 391.  
 Can-feeding apparatus. E. M. Burr. No. 921,672; May 18; Sp. p. 3271; Gaz. vol. 142; p. 582.  
 Can-filler. E. E. Schultz. No. 921,898; May 18; Sp. p. 3723; Gaz. vol. 142; p. 656.  
 Can-filling machine. L. A. Baker. No. 910,265; Jan. 19; Sp. p. 3748; Gaz. vol. 138; p. 675.  
 Can-filling machine. H. A. Blakeslee. No. 920,250; May 4; Sp. p. 330; Gaz. vol. 142; p. 52.  
 Can-filling machine. G. H. Mallett. No. 920,597; May 4; Sp. p. 1020; Gaz. vol. 142; p. 166.  
 Can-filling machine. C. S. Bucklin. No. 931,561; Aug. 17; Sp. p. 4062; Gaz. vol. 145; p. 700.  
 Can-filling machine. F. J. Heybach. No. 935,504; Sept. 28; Sp. p. 5068; Gaz. vol. 146; p. 895.  
 Can-filling machine. C. H. Ayars. No. 944,354; Dec. 28; Sp. p. 4972; Gaz. vol. 149; p. 877.  
 Can-fluxing machine. W. J. Phelps. No. 935,229; Sept. 28; Sp. p. 4529; Gaz. vol. 146; p. 807.  
 Can tunnel attachment, Milk-. G. H. Marting. No. 929,098; July 27; Sp. p. 4951; Gaz. vol. 144; p. 882.  
 Can fusing and soldering machine for square, rectangular, or polygonal cans. J. M. Young and C. M. Symonds. (Reissue.) No. 13,007; Aug. 10; Sp. p. 2927; Gaz. vol. 145; p. 493.  
 Can-heading machine. J. Brakeley. No. 914,695; Mar. 9; Sp. p. 2196; Gaz. vol. 140; p. 369.  
 Can-heading machine. G. H. Stewart. No. 936,956; Oct. 12; Sp. p. 2818; Gaz. vol. 147; p. 469.  
 Can-heading machine. L. C. Krummel. No. 941,346; Nov. 23; Sp. p. 6376; Gaz. vol. 148; p. 1067.  
 Can-heading machine. J. Brenzinger. No. 941,755; Nov. 30; Sp. p. 7272; Gaz. vol. 148; p. 1226.  
 Can-heading machine, Multiple. B. Adriance and A. Calleson. No. 927,310; July 6; Sp. p. 1236; Gaz. vol. 144; p. 203.  
 Can-heading machine, Single-. B. Adriance and A. Calleson. No. 933,872; Sept. 14; Sp. p. 1858; Gaz. vol. 146; p. 307.  
 Can-heads or other sheet-metal blanks, Cutting. F. Rudolph. No. 922,194; May 18; Sp. p. 4311; Gaz. vol. 142; p. 752.  
 Can-lacquering machine. C. B. Hanthorn. No. 919,858; Apr. 27; Sp. p. 6225; Gaz. vol. 141; p. 1062.  
 Can-lacquering machine. F. W. Wild, Jr. No. 942,951; Dec. 14; Sp. p. 1972; Gaz. vol. 149; p. 343.  
 Can lacquering or coating machine. J. C. Hodgson. No. 932,610; Aug. 31; Sp. p. 6328; Gaz. vol. 145; p. 1092.  
 Can lacquering or coating machine. C. S. Bucklin. No. 932,678; Aug. 31; Sp. p. 6466; Gaz. vol. 145; p. 1115.  
 Can-lock. E. F. Hulbert. No. 910,199; Jan. 19; Sp. p. 3578; Gaz. vol. 138; p. 649.  
 Can lock, Milk-. J. Varoga. No. 932,194; Aug. 24; Sp. p. 5464; Gaz. vol. 145; p. 930.  
 Can-locking device. T. Scott. No. 930,566; Aug. 10; Sp. p. 1939; Gaz. vol. 145; p. 342.  
 Can-making machine. E. Ellesen and L. Lambin. No. 920,291; May 4; Sp. p. 431; Gaz. vol. 142; p. 66.  
 Can-making-machine feeding mechanism. W. F. Hebrant. No. 913,386; Mar. 2; Sp. p. 458; Gaz. vol. 140; p. 75.  
 Can-marking device. T. O. Matthews. No. 926,271; June 29; Sp. p. 6678; Gaz. vol. 143; p. 1178.  
 Can-marking machine. J. B. Conover. No. 943,140; Dec. 14; Sp. p. 2397; Gaz. vol. 149; p. 408.  
 Can neck and making the same, Milk-. R. Bray. No. 938,960; Nov. 2; Sp. p. 1111; Gaz. vol. 148; p. 177.  
 Can-opener. A. M. Russell. No. 911,449; Feb. 2; Sp. p. 811; Gaz. vol. 139; p. 142.  
 Can-opener. C. A. Wade. No. 912,212; Feb. 9; Sp. p. 2405; Gaz. vol. 139; p. 415.  
 Can-opener. E. W. Bishop. No. 913,683; Mar. 2; Sp. p. 9; Gaz. vol. 140; p. 4.  
 Can-opener. A. O. Hanson. No. 914,829; Mar. 9; Sp. p. 2471; Gaz. vol. 140; p. 413.  
 Can-opener. G. H. Garnet. No. 919,151; Apr. 20; Sp. p. 4523; Gaz. vol. 141; p. 790.  
 Can-opener. J. B. Hough. No. 921,250; May 11; Sp. p. 2361; Gaz. vol. 142; p. 414.  
 Can-opener. W. T. Favorite. No. 922,117; May 18; Sp. p. 4158; Gaz. vol. 142; p. 727.  
 Can-opener. F. G. Mayer. No. 922,932; May 25; Sp. p. 5863; Gaz. vol. 142; p. 1021.  
 Can-opener. A. F. Fitz Gerald. No. 923,349; June 1; Sp. p. 559; Gaz. vol. 143; p. 80.  
 Can-opener. J. Coplinky. No. 926,051; June 22; Sp. p. 6191; Gaz. vol. 143; p. 1069.  
 Can-opener. B. E. Morse. No. 927,744; July 13; Sp. p. 2161; Gaz. vol. 144; p. 374.  
 Can-opener. R. Braun. No. 927,938; July 13; Sp. p. 2582; Gaz. vol. 144; p. 440.  
 Can-opener. C. B. Rigg. No. 935,820; Oct. 5; Sp. p. 475; Gaz. vol. 147; p. 68.  
 Can-opener. A. C. Lemm. No. 940,396; Nov. 16; Sp. p. 4358; Gaz. vol. 148; p. 729.  
 Can-opener. W. G. Kircher. No. 940,932; Nov. 23; Sp. p. 5500; Gaz. vol. 148; p. 932.  
 Can-opener. L. Dickerhoff. No. 943,736; Dec. 21; Sp. p. 3680; Gaz. vol. 149; p. 640.  
 Can-opener. M. Desotell. No. 944,126; Dec. 21; Sp. p. 4505; Gaz. vol. 149; p. 774.  
 Can-opener and bottle-decapper. G. W. Jopson. No. 922,702; May 25; Sp. p. 5370; Gaz. vol. 142; p. 946.  
 Can-opener, Safety. F. Behrens. No. 926,234; June 29; Sp. p. 6615; Gaz. vol. 143; p. 1167.  
 Can-polishing machine. C. Hediger. No. 943,247; Dec. 14; Sp. p. 2612; Gaz. vol. 149; p. 442.  
 Can-righting machine. S. Brower. No. 912,535; Feb. 16; Sp. p. 3134; Gaz. vol. 139; p. 562.  
 Can-soldering-machine soldering device. G. Smith. No. 913,065; Feb. 16; Sp. p. 4214; Gaz. vol. 139; p. 763.  
 Can-stamping machine. C. C. Brown. No. 914,234; Mar. 2; Sp. p. 1238; Gaz. vol. 140; p. 193.  
 Can-stoppers, Implement for applying and removing. F. Westerbeck. No. 913,336; Feb. 23; Sp. p. 4774; Gaz. vol. 139; p. 854.  
 Can-straightener. T. H. Hart. No. 918,146; Apr. 13; Sp. p. 2409; Gaz. vol. 141; p. 432.  
 Can-straightening machine. R. A. Hutchison. No. 912,377; Feb. 16; Sp. p. 2792; Gaz. vol. 139; p. 509.  
 Can-tapping device. J. M. Early. No. 917,268; Apr. 6; Sp. p. 639; Gaz. vol. 141; p. 109.  
 Can-testing apparatus. W. H. Norhaus. No. 937,540; Oct. 19; Sp. p. 4073; Gaz. vol. 147; p. 692.  
 Can-testing machine. C. B. McDonald. No. 938,165; Oct. 26; Sp. p. 5377; Gaz. vol. 147; p. 918.  
 Can-top. H. L. Freeborn. No. 915,845; Mar. 23; Sp. p. 4515; Gaz. vol. 140; p. 802.  
 Can top, Powder-. A. M. Coons. No. 920,273; May 4; Sp. p. 399; Gaz. vol. 142; p. 61.  
 Can top, Tin-. E. Norton. No. 933,103; Sept. 7; Sp. p. 139; Gaz. vol. 146; p. 23.  
 Can-tops, Machine for feeding. J. B. White and F. Wheeler. No. 934,586; Sept. 21; Sp. p. 3245; Gaz. vol. 146; p. 565.  
 Cans and the like, Machine for washing. J. L. Ranney. No. 940,060; Nov. 16; Sp. p. 3573; Gaz. vol. 148; p. 611.  
 Cans and their heads, Machine for clenching sheet-metal. B. Adriance and A. Calleson. No. 931,022; Aug. 17; Sp. p. 2932; Gaz. vol. 145; p. 519.  
 Cans, Apparatus for the manufacture of sheet-metal. R. H. Peacock. No. 930,414; Aug. 10; Sp. p. 1593; Gaz. vol. 145; p. 289.  
 Cans, Detachable spout for shipping-. G. W. Weber. No. 927,617; July 13; Sp. p. 1890; Gaz. vol. 144; p. 334.  
 Cans, Discharge-spout for. J. A. Sauer. No. 942,522; Dec. 7; Sp. p. 1041; Gaz. vol. 149; p. 168.  
 Cans, Forming covers for sheet-metal. J. Brenzinger. (Reissue.) No. 12,959; May 25; Sp. p. 6278; Gaz. vol. 142; p. 1086.  
 Cans, Heading sheet-metal. B. Adriance. No. 939,197; Nov. 9; Sp. p. 1613; Gaz. vol. 148; p. 285.  
 Cans, Hermetically securing covers on drawn or seamless sardine-. G. W. Weber. No. 918,619; Apr. 20; Sp. p. 3393; Gaz. vol. 141; p. 614.  
 Cans, Machine for lining the covers of metal. W. Plinatus. No. 934,753; Sept. 21; Sp. p. 3571; Gaz. vol. 146; p. 622.  
 Cans, Manufacture of sheet-metal. R. H. Smith. No. 932,341; Aug. 24; Sp. p. 5735; Gaz. vol. 145; p. 978.  
 Cans, Manufacturing sheet-metal. E. Norton. No. 933,104; Sept. 7; Sp. p. 142; Gaz. vol. 146; p. 23.  
 Cans to operating mechanisms, Device for feeding. L. C. Krummel and J. C. Talliaferro. No. 931,434; Aug. 17; Sp. p. 3834; Gaz. vol. 145; p. 661.  
 Canned-goods-sterilizing apparatus. A. Mill. No. 932,629; Aug. 31; Sp. p. 6362; Gaz. vol. 145; p. 1098.  
 Canning apparatus. W. N., C. V., and L. L. Brown. No. 916,837; Mar. 30; Sp. p. 6414; Gaz. vol. 140; p. 1147.

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- Canning apparatus. J. F. McIlvaine. No. 928,144; July 13; Sp. p. 2965; Gaz. vol. 144; p. 507.  
 Canning apparatus. L. L. Lawrence. No. 928,773; July 20; Sp. p. 4289; Gaz. vol. 144; p. 748.  
 Canning apparatus. T. H. Eldson. No. 939,485; Nov. 9; Sp. p. 2309; Gaz. vol. 148; p. 382.  
 Canning apparatus, Steam. E. McCoy. No. 926,588; June 29; Sp. p. 7254; Gaz. vol. 143; p. 1282.  
 Canning-furnace. C. C. May. No. 915,984; Mar. 23; Sp. p. 4784; Gaz. vol. 140; p. 845.  
 Canning operations, Machine employed in. G. G. Glass. No. 909,582; Jan. 12; Sp. p. 2320; Gaz. vol. 138; p. 411.  
 Canning outfit. J. M. Ponder. No. 943,706; Dec. 21; Sp. p. 3617; Gaz. vol. 149; p. 629.  
 Canning-table fruit-distributing apparatus. W. C. Anderson. No. 920,712; May 4; Sp. p. 1276; Gaz. vol. 142; p. 204.  
 Canceling machine, Letter-. L. Blessing, M. L. Aten, and G. H. Poirier. No. 941,848; Nov. 30; Sp. p. 7493; Gaz. vol. 148; p. 1259.  
 Canceling machine, Ticket-. W. C. Fisk and J. A. Seely. No. 940,452; Nov. 16; Sp. p. 4472; Gaz. vol. 148; p. 747.  
 Canceling machine, Ticket-. W. C. Fisk and J. A. Seely. No. 940,681; Nov. 23; Sp. p. 4968; Gaz. vol. 148; p. 848.  
 Candelabrum. O. H. Van Guelpen. No. 941,213; Nov. 23; Sp. p. 6118; Gaz. vol. 148; p. 1026.  
 Candle-end-forming machine. C. B. Manbeck. No. 941,083; Nov. 23; Sp. p. 5820; Gaz. vol. 148; p. 982.  
 Candle-assembling machine. C. B. Manbeck. No. 932,796; Aug. 31; Sp. p. 6721; Gaz. vol. 145; p. 1153.  
 Candle-gathering implement. C. B. Manbeck. No. 934,196; Sept. 14; Sp. p. 2506; Gaz. vol. 146; p. 412.  
 Candle or lamp holder. W. W. Katterjohn. No. 928,131; July 13; Sp. p. 2944; Gaz. vol. 144; p. 503.  
 Candle-protector. B. F. H. Dawson. No. 912,821; Feb. 16; Sp. p. 3751; Gaz. vol. 139; p. 660.  
 Candle-protector, Miner's. W. Cooper. No. 924,741; June 15; Sp. p. 3547; Gaz. vol. 143; p. 608.  
 Candle, Spark-emitting. F. J. Welter. No. 910,755; Jan. 26; Sp. p. 4771; Gaz. vol. 138; p. 863.  
 Candlestick. T. Gossack. No. 912,113; Feb. 9; Sp. p. 2230; Gaz. vol. 139; p. 385.  
 Candlestick. R. F. Crooke. No. 914,804; Mar. 9; Sp. p. 2415; Gaz. vol. 140; p. 406.  
 Candlestick-lubricator. E. L. Faul. No. 928,861; July 20; Sp. p. 4456; Gaz. vol. 144; p. 777.  
 Candlestick, Miner's. B. F. Kelly. No. 910,390; Jan. 19; Sp. p. 4004; Gaz. vol. 138; p. 718.  
 Candlestick, Miner's. C. J. Ramstead and P. J. Johnson. No. 922,950; May 25; Sp. p. 5896; Gaz. vol. 142; p. 1027.  
 Candlestick, Miner's. C. Fisk. No. 938,838; Nov. 2; Sp. p. 834; Gaz. vol. 148; p. 134.  
 Candy and making same. R. K. Yacobbian. No. 921,052; May 11; Sp. p. 1944; Gaz. vol. 142; p. 345.  
 Candy articles, Making hollow. J. F. Sigrist. No. 927,435; July 6; Sp. p. 1480; Gaz. vol. 144; p. 245.  
 Candy-coating machine. G. B. M. Goodwin. No. 937,698; Oct. 19; Sp. p. 4365; Gaz. vol. 147; p. 743.  
 Candy-cutter. C. D. Lane and A. F. Schmand. No. 911,410; Feb. 2; Sp. p. 749; Gaz. vol. 139; p. 130.  
 Candy-cutter. W. E. Ellis. No. 930,099; Aug. 3; Sp. p. 1008; Gaz. vol. 145; p. 163.  
 Candy-cutter, Adjustable combination. J. Lindberg. No. 912,006; Feb. 9; Sp. p. 2018; Gaz. vol. 139; p. 351.  
 Candy-machine. J. Smith. No. 930,099; Aug. 3; Sp. p. 1008; Gaz. vol. 145; p. 163.  
 Candy-machine. J. Smith. No. 942,595; Dec. 7; Sp. p. 1173; Gaz. vol. 149; p. 191.  
 Candy-making machine. W. T. Hudson. No. 910,138; Jan. 19; Sp. p. 3569; Gaz. vol. 138; p. 649.  
 Candy-making machine. W. T. Hudson and P. R. Camp. No. 933,987; Sept. 14; Sp. p. 2079; Gaz. vol. 146; p. 343.  
 Candy-mold. E. J. Hedrick. No. 934,310; Sept. 14; Sp. p. 2714; Gaz. vol. 146; p. 450.  
 Candy-pail. C. A. Lee. No. 928,263; Nov. 20; Sp. p. 3260; Gaz. vol. 144; p. 579.  
 Candy-pail cover. G. B. Griffin and N. R. Johnson. No. 928,381; July 20; Sp. p. 3506; Gaz. vol. 144; p. 620.  
 Candy-pulling machine. H. S. Brewington. No. 941,610; Nov. 30; Sp. p. 6954; Gaz. vol. 148; p. 1176.  
 Candy-spinning and twisting machine, Stick-. D. T. Igou. No. 937,702; Oct. 19; Sp. p. 4379; Gaz. vol. 147; p. 744.  
 Candy, Sugared nut-. J. H. McDonald and C. A. Hopson. No. 931,137; Aug. 17; Sp. p. 3192; Gaz. vol. 145; p. 557.  
 Candy-twisting machine. W. D. Reeves. No. 942,284; Dec. 7; Sp. p. 552; Gaz. vol. 149; p. 86.  
 Candy-wrapping machine. M. E. W. W. H. L. and A. F. Buhse. No. 929,075; July 27; Sp. p. 4908; Gaz. vol. 144; p. 876.  
 Cane and the like. W. Bimblech. No. 924,880; June 15; Sp. p. 3835; Gaz. vol. 143; p. 655.  
 Cane, Balloon-. F. J. Creque. No. 918,973; Apr. 20; Sp. p. 4202; Gaz. vol. 141; p. 734.  
 Cane-cutter. L. H. Braud. No. 936,404; Oct. 12; Sp. p. 1676; Gaz. vol. 147; p. 284.  
 Cane for exploding caps. C. V. Wertz. No. 926,307; June 29; Sp. p. 6744; Gaz. vol. 143; p. 1189.  
 Cane mills, Figured roll for sugar-. J. and C. McNeil. No. 926,677; June 29; Sp. p. 7431; Gaz. vol. 143; p. 1311.  
 Cane-mills, Hydraulic-pressure apparatus for. W. J. Dyer and H. G. Ginaca. No. 920,934; May 11; Sp. p. 1726; Gaz. vol. 142; p. 306.  
 Cane-sling. J. Mallon. No. 922,929; May 25; Sp. p. 5854; Gaz. vol. 142; p. 1020.  
 Cane-stripper. T. J. Peters. No. 928,149; July 13; Sp. p. 2976; Gaz. vol. 144; p. 509.  
 Cane-unloader. C. Bosse. No. 943,591; Dec. 14; Sp. p. 3323; Gaz. vol. 149; p. 560.  
 Cane, Wax-like product obtained from sugar-. A. Wynnberg. No. 941,401; Nov. 30; Sp. p. 6530; Gaz. vol. 148; p. 1109.  
 Canister, Non-refillable. N. J. Harrington. No. 925,633; June 22; Sp. p. 5306; Gaz. vol. 143; p. 933.  
 Canopy. I. E. Palmer. No. 926,209; June 29; Sp. p. 6551; Gaz. vol. 143; p. 1158.  
 Canopy. L. F. Busenbark. No. 928,495; July 20; Sp. p. 3727; Gaz. vol. 144; p. 655.  
 Canopy. R. K. Hook. No. 937,529; Oct. 19; Sp. p. 4051; Gaz. vol. 147; p. 688.  
 Canopy for draft-animals. D. J. Condon. No. 923,021; May 25; Sp. p. 6022; Gaz. vol. 142; p. 1049.  
 Canopy-frame having doors. W. S. Davidson. No. 941,765; Nov. 30; Sp. p. 7303; Gaz. vol. 148; p. 1230.  
 Canopy, Ventilating. J. N. Moody. No. 941,685; Nov. 30; Sp. p. 7112; Gaz. vol. 148; p. 1202.  
 Cant-hook. J. B. Snyder. No. 940,207; Nov. 16; Sp. p. 3908; Gaz. vol. 148; p. 664.  
 Canteen. R. O. Stebbins. No. 929,337; July 27; Sp. p. 5504; Gaz. vol. 144; p. 965.  
 Canvas carrier, Artist's wet-. R. P. Tolman. No. 941,212; Nov. 23; Sp. p. 6117; Gaz. vol. 148; p. 1026.  
 Canvas, Machine for treating coated. A. Thoma. No. 921,635; May 11; Sp. p. 3171; Gaz. vol. 142; p. 542.  
 Caoutchouc and similar substances, Apparatus for washing. F. Kempter. No. 936,635; Oct. 12; Sp. p. 2193; Gaz. vol. 147; p. 362.  
 Caoutchouc, gutta-percha, and similar substances, Apparatus for washing. F. Kempter. No. 935,849; Oct. 5; Sp. p. 529; Gaz. vol. 147; p. 77.  
 Caoutchouc, Manufacturing solutions of. E. Fischer. No. 910,820; Jan. 26; Sp. p. 4284; Gaz. vol. 138; p. 786.  
 Caoutchouc, Preparation of. A. Tixier. No. 924,117; June 8; Sp. p. 2187; Gaz. vol. 143; p. 365.  
 Cap. I. Pachner. No. 911,432; Feb. 2; Sp. p. 757; Gaz. vol. 139; p. 137.  
 Cap. I. Pachner. No. 911,433; Feb. 2; Sp. p. 788; Gaz. vol. 139; p. 137.  
 Cap, Infant's. M. Constantine. No. 918,511; Apr. 20; Sp. p. 3160; Gaz. vol. 141; p. 579.  
 Cap, Miner's. W. C. Ballman. No. 917,987; Apr. 13; Sp. p. 2083; Gaz. vol. 141; p. 376.  
 Cap, Miner's. I. M. McPherson. No. 931,463; Aug. 17; Sp. p. 3885; Gaz. vol. 145; p. 670.  
 Cap-spindle. B. Fickles and F. Woodhead. No. 921,279; May 11; Sp. p. 2431; Gaz. vol. 142; p. 423.  
 Cap, Washable. K. Neidhart. No. 910,716; Jan. 26; Sp. p. 4674; Gaz. vol. 138; p. 850.  
 Cap, Washable. S. Graff. No. 918,037; Apr. 13; Sp. p. 2196; Gaz. vol. 141; p. 394.  
 Caps, Device for applying protectors to fulminating-. W. E. Miller. No. 931,454; Aug. 17; Sp. p. 3868; Gaz. vol. 145; p. 667.  
 Caps, Making vizors for. J. Mackey. No. 926,343; June 29; Sp. p. 6822; Gaz. vol. 143; p. 1200.  
 Caps or disks, Mechanism for feeding. I. F. Warme. No. 931,003; Aug. 10; Sp. p. 2882; Gaz. vol. 145; p. 484.  
 Capping-machine. F. Mueller and G. W. Gwin. No. 915,992; Mar. 23; Sp. p. 4797; Gaz. vol. 140; p. 848.  
 Capping-machine. G. Kirkegaard. No. 922,776; May 25; Sp. p. 5515; Gaz. vol. 142; p. 970.  
 Capping-machine. G. Kirkegaard. No. 922,777; May 25; Sp. p. 5517; Gaz. vol. 142; p. 970.  
 Capping-machine. G. Kirkegaard. No. 922,778; May 25; Sp. p. 5519; Gaz. vol. 142; p. 970.  
 Capping-machine. C. A. Youngman. No. 931,244; Aug. 17; Sp. p. 3430; Gaz. vol. 145; p. 595.  
 Capping-machine head. G. Kirkegaard. No. 931,626; Aug. 17; Sp. p. 4194; Gaz. vol. 145; p. 719.  
 Cape. W. W. Felton. No. 936,351; Oct. 12; Sp. p. 1553; Gaz. vol. 147; p. 266.  
 Capstan-screw. W. C. Vogel and H. K. Snell. No. 925,057; June 15; Sp. p. 4199; Gaz. vol. 143; p. 715.  
 Capsule-filler. F. H. Brown. No. 928,356; July 20; Sp. p. 3464; Gaz. vol. 144; p. 611.  
 Capsule-filling machine. T. P. Curry. No. 915,561; Mar. 16; Sp. p. 3935; Gaz. vol. 140; p. 679.  
 Capsule-forming apparatus. B. W. Scott. No. 943,608; Dec. 14; Sp. p. 3356; Gaz. vol. 149; p. 567.  
 Capsules with liquefied gas, Appliances for charging. P. Giron. No. 913,656; Feb. 23; Sp. p. 5463; Gaz. vol. 139; p. 962.  
 Car. E. S. Bucknam. No. 912,983; Feb. 16; Sp. p. 4047; Gaz. vol. 139; p. 710.  
 Car. R. Dunning. No. 920,287; May 4; Sp. p. 427; Gaz. vol. 142; p. 65.  
 Car. J. E. Tesseyman. No. 932,728; Aug. 31; Sp. p. 5565; Gaz. vol. 145; p. 1131.  
 Car. G. G. Fryer. No. 934,398; Sept. 14; Sp. p. 2878; Gaz. vol. 146; p. 481.  
 Car. W. H. Son. No. 940,902; Nov. 23; Sp. p. 5437; Gaz. vol. 148; p. 921.  
 Car. E. S. Bucknam. No. 941,855; Nov. 30; Sp. p. 7506; Gaz. vol. 148; p. 1262.  
 Car. F. A. Dahlin and E. Carlson. No. 943,007; Dec. 14; Sp. p. 2108; Gaz. vol. 149; p. 362.  
 Car adjustable platform, Railway-. W. Robinson. No. 919,383; Apr. 27; Sp. p. 5198; Gaz. vol. 141; p. 901.  
 Car-aisles, Means for preventing congestion in. A. J. Breda. No. 927,707; July 13; Sp. p. 2093; Gaz. vol. 144; p. 363.  
 Car and engine replacer. J. Flynn. No. 923,785; June 1; Sp. p. 1526; Gaz. vol. 143; p. 230.



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- Car and engine retractor. J. I. Ford. No. 936,439; Oct. 12; Sp. p. 1784; Gaz. vol. 147; p. 296.
- Car and heating appliance, Freight-. W. E. Eastman. No. 933,241; Sept. 7; Sp. p. 485; Gaz. vol. 146; p. 74.
- Car and hose coupling. E. Myers. No. 916,759; Mar. 30; Sp. p. 6268; Gaz. vol. 140; p. 1121.
- Car and operating mechanism, Dump-. E. L. Stoltzfus and I. B. Miller. No. 928,286; July 20; Sp. p. 3323; Gaz. vol. 144; p. 587.
- Car and other berth section, Railway-sleeping-. H. Pearson. No. 924,823; June 15; Sp. p. 3711; Gaz. vol. 143; p. 636.
- Car and other door bolt, Grain-. F. Thomann. No. 935,284; Sept. 28; Sp. p. 4643; Gaz. vol. 146; p. 825.
- Car and tender underframe. J. S. Andrews. No. 910,263; Jan. 19; Sp. p. 3739; Gaz. vol. 138; p. 675.
- Car and tender underframe. W. D. Lowry. No. 922,787; May 25; Sp. p. 5542; Gaz. vol. 142; p. 973.
- Car and tender underframe. W. D. Lowry. No. 922,788; May 25; Sp. p. 5544; Gaz. vol. 142; p. 974.
- Car and tender underframe. W. D. Lowry. No. 922,789; May 25; Sp. p. 5546; Gaz. vol. 142; p. 974.
- Car and train-pipe coupling, Combined. R. Rittenhouse. No. 927,600; July 13; Sp. p. 1857; Gaz. vol. 144; p. 328.
- Car angle-cock holder, Railway-. L. A. Hoerr. No. 939,421; Nov. 9; Sp. p. 2172; Gaz. vol. 148; p. 261.
- Car antifriction center-bearing, Railway-. J. F. O'Connor. No. 909,106; Jan. 5; Sp. p. 1395; Gaz. vol. 138; p. 222.
- Car antifriction side bearing, Railway-. J. F. O'Connor. No. 909,107; Jan. 5; Sp. p. 1399; Gaz. vol. 138; p. 222.
- Car attachment, Street-. J. N. Nixon. No. 921,877; May 18; Sp. p. 3681; Gaz. vol. 142; p. 649.
- Car automatic air and gas valve. W. D. McPherson. No. 909,320; Jan. 12; Sp. p. 1815; Gaz. vol. 138; p. 325.
- Car automatic curtain hook and release, Vestibule-. J. McMullen. No. 917,107; Apr. 6; Sp. p. 293; Gaz. vol. 141; p. 53.
- Car-axle-box lid. F. Hachmann. No. 910,668; Jan. 26; Sp. p. 4590; Gaz. vol. 138; p. 835.
- Car-axle-box lid. H. C. Gamage. No. 913,371; Feb. 23; Sp. p. 4839; Gaz. vol. 139; p. 867.
- Car-axle-box, Railway-. J. B. Arrington. No. 915,011; Mar. 9; Sp. p. 2781; Gaz. vol. 140; p. 470.
- Car-axle-lubricator. J. C. Nichol. No. 917,477; Apr. 6; Sp. p. 1024; Gaz. vol. 141; p. 178.
- Car, Ballast-plow. H. S. Hart. No. 908,461; Jan. 5; Sp. p. 63; Gaz. vol. 138; p. 11.
- Car-bearing. J. R. Baker, M. Loucks, and W. R. Clark. No. 917,522; Apr. 6; Sp. p. 1108; Gaz. vol. 141; p. 193.
- Car-berth wall-pocket, Sleeping-. S. W. Clark. No. 914,701; Mar. 9; Sp. p. 2210; Gaz. vol. 140; p. 371.
- Car-bodies, Metallic end frame for. C. E. Dath. No. 917,716; Apr. 6; Sp. p. 1468; Gaz. vol. 141; p. 257.
- Car-body. J. M. Hopkins. No. 926,416; June 29; Sp. p. 6953; Gaz. vol. 143; p. 1225.
- Car-body. J. M. Hopkins. No. 933,903; Sept. 14; Sp. p. 1917; Gaz. vol. 146; p. 317.
- Car-body-bolster. H. F. Pope. No. 936,159; Oct. 5; Sp. p. 1173; Gaz. vol. 147; p. 178.
- Car-body construction. L. G. Nilson. No. 923,292; June 1; Sp. p. 417; Gaz. vol. 143; p. 59.
- Car-body head-frame, Railway-. C. M. Evans. No. 930,277; Aug. 3; Sp. p. 1329; Gaz. vol. 145; p. 220.
- Car-body-underframe construction. O. S. Fulliam. No. 929,245; July 27; Sp. p. 5259; Gaz. vol. 144; p. 931.
- Car-bolster. H. Pries. No. 914,073; Mar. 2; Sp. p. 896; Gaz. vol. 140; p. 140.
- Car-bolster. J. A. Lamont. No. 926,752; July 6; Sp. p. 98; Gaz. vol. 144; p. 15.
- Car-bolster. C. H. Anderson. No. 941,691; Nov. 30; Sp. p. 7136; Gaz. vol. 148; p. 1204.
- Car bolster, Hopper-. A. Becker. No. 933,014; Aug. 31; Sp. p. 7112; Gaz. vol. 145; p. 1223.
- Car bolster, Railway-. T. A. Collison. No. 918,736; Apr. 20; Sp. p. 3697; Gaz. vol. 141; p. 656.
- Car-bolster-reinforcing construction. F. L. Irwin. No. 913,143; Feb. 23; Sp. p. 4376; Gaz. vol. 139; p. 790.
- Car-brace. W. I. Taylor. No. 923,463; June 1; Sp. p. 789; Gaz. vol. 143; p. 117.
- Car-brace. W. I. Taylor. No. 929,998; Aug. 3; Sp. p. 800; Gaz. vol. 145; p. 128.
- Car-brake. C. B. Fairchild. No. 910,805; Jan. 26; Sp. p. 4868; Gaz. vol. 138; p. 879.
- Car-brake. J. S. McWhirter. No. 919,746; Apr. 27; Sp. p. 5965; Gaz. vol. 141; p. 1025.
- Car-brake. W. L. Taylor. No. 921,309; May 11; Sp. p. 2489; Gaz. vol. 142; p. 432.
- Car-brake. J. A. Davis and D. L. Reed. No. 924,645; June 15; Sp. p. 3342; Gaz. vol. 143; p. 576.
- Car-brake. J. W. Lamoreaux. No. 925,640; June 22; Sp. p. 5336; Gaz. vol. 143; p. 935.
- Car-brake. H. Hoffman. No. 929,432; July 27; Sp. p. 5660; Gaz. vol. 144; p. 994.
- Car-brake. C. Phillips. No. 934,568; Sept. 21; Sp. p. 3206; Gaz. vol. 146; p. 559.
- Car-brake. G. M. Hoadley. No. 937,068; Oct. 19; Sp. p. 3044; Gaz. vol. 147; p. 535.
- Car-brake. C. V. Rote and P. E. Shee. No. 938,340; Oct. 26; Sp. p. 5749; Gaz. vol. 147; p. 978.
- Car-brake. N. F. Zech. No. 938,955; Nov. 2; Sp. p. 1065; Gaz. vol. 148; p. 169.
- Car-brake. J. W. Johnson. No. 939,701; Nov. 9; Sp. p. 2768; Gaz. vol. 148; p. 457.
- Car-brake. W. J. Stahr. No. 940,373; Nov. 16; Sp. p. 4289; Gaz. vol. 148; p. 720.
- Car-brake attachment. G. Frowen. No. 913,719; Mar. 2; Sp. p. 88; Gaz. vol. 140; p. 16.
- Car brake-beam, Railway-. W. I. Eckert. No. 927,645; July 13; Sp. p. 1957; Gaz. vol. 144; p. 343.
- Car-brake-connector support, Railway-. G. E. Kelly and G. F. Royer. No. 937,534; Oct. 19; Sp. p. 4061; Gaz. vol. 147; p. 690.
- Car brake, Dump-. L. F. Gaston. No. 942,320; Dec. 7; Sp. p. 624; Gaz. vol. 149; p. 99.
- Car-brake mechanism. C. M. McCarthy. No. 932,994; Aug. 31; Sp. p. 7075; Gaz. vol. 145; p. 1217.
- Car-brake mechanism. S. B. Thompson. No. 935,176; Sept. 28; Sp. p. 4431; Gaz. vol. 146; p. 789.
- Car-brake mechanism, Railway-. A. C. Vaucatin. No. 935,436; Sept. 28; Sp. p. 4943; Gaz. vol. 146; p. 873.
- Car brake, Mine-. I. Glen. No. 923,260; June 1; Sp. p. 306; Gaz. vol. 143; p. 48.
- Car-brake-operating apparatus, Railway-. N. Elliott. No. 917,569; Apr. 6; Sp. p. 1186; Gaz. vol. 141; p. 207.
- Car-brake-operating mechanism. H. Dixon. No. 925,466; June 22; Sp. p. 4972; Gaz. vol. 143; p. 877.
- Car-brake-operating mechanism. C. A. Williamson. No. 941,219; Nov. 23; Sp. p. 6133; Gaz. vol. 148; p. 1028.
- Car brake, Railway-. G. M. Hoadley. No. 937,069; Oct. 19; Sp. p. 3049; Gaz. vol. 147; p. 536.
- Car brake, Railway-. L. De Vito. No. 942,684; Dec. 7; Sp. p. 1347; Gaz. vol. 149; p. 222.
- Car brake-rigging, Railway-. W. H. Sauvage. No. 909,232; Jan. 12; Sp. p. 1642; Gaz. vol. 138; p. 296.
- Car-buffer. G. P. Parton. No. 912,160; Feb. 9; Sp. p. 2308; Gaz. vol. 139; p. 400.
- Car-buffer. M. L. Dean. No. 921,208; May 11; Sp. p. 2277; Gaz. vol. 142; p. 400.
- Car buffer-plate, Railway-. H. Pearson. No. 933,721; Sept. 7; Sp. p. 1556; Gaz. vol. 146; p. 236.
- Car buffer, Railway-. P. Reconti. No. 933,204; Sept. 7; Sp. p. 385; Gaz. vol. 146; p. 60.
- Car-bumper or the like. G. H. F. Schrader and G. C. Leonard. No. 911,166; Feb. 2; Sp. p. 284; Gaz. vol. 139; p. 50.
- Car, &c., burglar-alarm, Railway-. G. Potter, Jr. No. 914,508; Mar. 9; Sp. p. 1789; Gaz. vol. 140; p. 307.
- Car, Cash-entry. P. M. Kling. No. 934,818; Sept. 21; Sp. p. 3711; Gaz. vol. 146; p. 644.
- Car center and end sills, Reinforcing-plate for railway-. F. Koch. No. 930,391; Aug. 10; Sp. p. 1554; Gaz. vol. 145; p. 281.
- Car center-bearing. L. W. Barber. No. 909,518; Jan. 12; Sp. p. 2200; Gaz. vol. 138; p. 390.
- Car center sill, Railway-. I. G. Downs. No. 924,748; June 15; Sp. p. 3559; Gaz. vol. 143; p. 611.
- Car changeable sign, Street-. R. L. Halleman. No. 910,669; Jan. 26; Sp. p. 4592; Gaz. vol. 138; p. 835.
- Car chock, Railway-. J. Kezon. No. 933,760; Sept. 14; Sp. p. 1638; Gaz. vol. 146; p. 270.
- Car, Concrete. J. B. Strauss. No. 925,964; June 22; Sp. p. 6021; Gaz. vol. 143; p. 1040.
- Car construction. C. A. Lindström. No. 917,956; Apr. 13; Sp. p. 2002; Gaz. vol. 141; p. 364.
- Car construction. J. G. Bower. No. 922,846; May 25; Sp. p. 5666; Gaz. vol. 142; p. 993.
- Car construction. E. G. Budd. No. 923,811; June 8; Sp. p. 1622; Gaz. vol. 143; p. 268.
- Car construction. T. Dunbar and L. J. Berg. No. 926,396; June 29; Sp. p. 6915; Gaz. vol. 143; p. 1217.
- Car construction. T. Dunbar and L. J. Berg. No. 926,645; June 29; Sp. p. 7371; Gaz. vol. 143; p. 1300.
- Car construction. T. Dunbar and L. J. Berg. No. 940,378; Nov. 16; Sp. p. 4315; Gaz. vol. 148; p. 723.
- Car construction. J. F. Streib. No. 942,224; Dec. 7; Sp. p. 422; Gaz. vol. 149; p. 65.
- Car construction, Box-. F. L. Irwin and J. E. Tesseymann. No. 913,142; Feb. 23; Sp. p. 4373; Gaz. vol. 139; p. 790.
- Car construction, Passenger-. F. M. Brinckerhoff. No. 909,844; Jan. 12; Sp. p. 2830; Gaz. vol. 138; p. 499.
- Car construction, Passenger-. G. W. Lillie. No. 920,594; May 4; Sp. p. 1016; Gaz. vol. 142; p. 165.
- Car construction, Steel-. W. P. Bettendorf. No. 942,997; Dec. 14; Sp. p. 2086; Gaz. vol. 149; p. 358.
- Car-control apparatus, Railway-. J. B. Atwood. No. 916,405; Mar. 30; Sp. p. 5575; Gaz. vol. 140; p. 1010.
- Car controller-operating handle, Electric-. E. K. Hofmann. No. 924,463; June 8; Sp. p. 2944; Gaz. vol. 143; p. 482.
- Car-controlling mechanism, Elevator-. A. W. Hubers. No. 918,051; Apr. 13; Sp. p. 2220; Gaz. vol. 141; p. 399.
- Car-controlling system, Electric. A. B. Stitzer. No. 941,391; Nov. 30; Sp. p. 6501; Gaz. vol. 148; p. 1106.
- Car, Convertible. E. C. Harlee. No. 913,956; Mar. 2; Sp. p. 625; Gaz. vol. 140; p. 99.
- Car, Convertible. E. C. Harlee. No. 914,270; Mar. 2; Sp. p. 1315; Gaz. vol. 140; p. 203.
- Car, Convertible. M. Rounds. No. 933,268; Sept. 7; Sp. p. 546; Gaz. vol. 146; p. 84.
- Car, Convertible. C. W. Benjamin. No. 934,788; Sept. 21; Sp. p. 3652; Gaz. vol. 146; p. 634.
- Car, Convertible amusement and dining-. C. H. Packard. No. 914,748; Mar. 9; Sp. p. 2314; Gaz. vol. 140; p. 388.
- Car, Convertible railway-. J. T. Appgar. No. 909,860; Jan. 19; Sp. p. 2870; Gaz. vol. 138; p. 536.
- Car corner-anchor. H. E. Haddock. No. 912,120; Feb. 9; Sp. p. 2241; Gaz. vol. 139; p. 388.
- Car-coupling. C. A. Dunn. No. 908,762; Jan. 5; Sp. p. 707; Gaz. vol. 138; p. 110.
- Car-coupling. O. Hecathorn. No. 910,537; Jan. 26; Sp. p. 4308; Gaz. vol. 138; p. 791.

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 Car-coupling. J. H. Stricklan. No. 912,436; Feb. 16; Sp. p. 2913; Gaz. vol. 139; p. 528.  
 Car-coupling. J. Kelso. No. 913,213; Feb. 23; Sp. p. 4512; Gaz. vol. 139; p. 813.  
 Car-coupling. W. McConway, Jr., and J. Kelso. No. 913,229; Feb. 23; Sp. p. 4553; Gaz. vol. 139; p. 818.  
 Car-coupling. W. McConway, Jr., and J. Kelso. No. 913,230; Feb. 23; Sp. p. 4560; Gaz. vol. 139; p. 818.  
 Car-coupling. S. Sznutechko and E. W. Stevenson. No. 914,895; Mar. 9; Sp. p. 2603; Gaz. vol. 140; p. 435.  
 Car-coupling. D. Alford. No. 916,246; Mar. 23; Sp. p. 5267; Gaz. vol. 140; p. 931.  
 Car-coupling. F. Mikel. No. 918,764; Apr. 20; Sp. p. 3744; Gaz. vol. 141; p. 665.  
 Car-coupling. J. Stankus. No. 918,792; Apr. 20; Sp. p. 3792; Gaz. vol. 141; p. 673.  
 Car-coupling. J. F. and V. S. Durbin. No. 919,331; Apr. 27; Sp. p. 5097; Gaz. vol. 141; p. 884.  
 Car-coupling. A. Tawls. No. 921,482; May 11; Sp. p. 2854; Gaz. vol. 142; p. 491.  
 Car-coupling. M. C. Ironside. No. 921,707; May 18; Sp. p. 3328; Gaz. vol. 142; p. 592.  
 Car-coupling. O. E. Berkhouse, E. McConville and E. R. Patrick. No. 925,276; June 15; Sp. p. 4608; Gaz. vol. 143; p. 788.  
 Car-coupling. M. Westra. No. 925,544; June 22; Sp. p. 5122; Gaz. vol. 143; p. 903.  
 Car-coupling. C. A. Schroyer. No. 926,295; June 29; Sp. p. 6719; Gaz. vol. 143; p. 1185.  
 Car-coupling. R. D. Gallagher, Jr. No. 927,138; July 6; Sp. p. 911; Gaz. vol. 144; p. 147.  
 Car-coupling. C. Dobbs. No. 927,334; July 6; Sp. p. 1273; Gaz. vol. 144; p. 210.  
 Car-coupling. A. Moritz. No. 927,423; July 6; Sp. p. 1447; Gaz. vol. 144; p. 240.  
 Car-coupling. H. C. Crigger. No. 927,453; July 6; Sp. p. 1525; Gaz. vol. 144; p. 251.  
 Car-coupling. N. F. Resseguie. No. 929,879; Aug. 3; Sp. p. 542; Gaz. vol. 145; p. 87.  
 Car-coupling. G. E. Tomlinson. No. 931,097; Aug. 17; Sp. p. 3098; Gaz. vol. 145; p. 543.  
 Car-coupling. E. F. Pendexter. No. 931,338; Aug. 17; Sp. p. 3640; Gaz. vol. 145; p. 628.  
 Car-coupling. C. A. Tower. No. 933,602; Sept. 7; Sp. p. 1317; Gaz. vol. 146; p. 194.  
 Car-coupling. W. L. Wright. No. 933,941; Sept. 14; Sp. p. 1994; Gaz. vol. 146; p. 328.  
 Car-coupling. R. B. Chalmers. No. 933,959; Sept. 14; Sp. p. 2029; Gaz. vol. 146; p. 334.  
 Car-coupling. J. Timms. No. 934,582; Sept. 21; Sp. p. 3237; Gaz. vol. 146; p. 564.  
 Car-coupling. C. A. Tower. No. 934,948; Sept. 21; Sp. p. 3966; Gaz. vol. 146; p. 688.  
 Car-coupling. W. A. Palmer. No. 935,400; Sept. 28; Sp. p. 4872; Gaz. vol. 146; p. 862.  
 Car-coupling. L. Thamas. No. 935,563; Sept. 28; Sp. p. 5221; Gaz. vol. 146; p. 916.  
 Car-coupling. W. S. Schroeder. No. 936,046; Oct. 5; Sp. p. 949; Gaz. vol. 147; p. 142.  
 Car-coupling. H. J. Dean. No. 937,023; Oct. 12; Sp. p. 2949; Gaz. vol. 147; p. 491.  
 Car-coupling. S. W. Wright. No. 938,104; Oct. 26; Sp. p. 5232; Gaz. vol. 147; p. 897.  
 Car-coupling. W. S. Lennon. No. 939,720; Nov. 9; Sp. p. 2803; Gaz. vol. 148; p. 463.  
 Car-coupling. C. H. Tomlinson. No. 941,965; Nov. 30; Sp. p. 7719; Gaz. vol. 148; p. 1300.  
 Car-coupling. J. E. Hudler. No. 943,079; Dec. 14; Sp. p. 2282; Gaz. vol. 149; p. 387.  
 Car-coupling. J. F. and V. S. Durbin. No. 943,144; Dec. 14; Sp. p. 2413; Gaz. vol. 149; p. 409.  
 Car-coupling. H. J. Daubert. No. 944,953; Dec. 28; Sp. p. 6281; Gaz. vol. 149; p. 1079.  
 Car coupling and bumper. J. Nagy. No. 918,580; Apr. 20; Sp. p. 3304; Gaz. vol. 141; p. 601.  
 Car-coupling, Automatic. O. F. Richter. No. 942,218; Dec. 7; Sp. p. 408; Gaz. vol. 149; p. 63.  
 Car-coupling, Automatic. H. Leslie. No. 943,116; Dec. 14; Sp. p. 2354; Gaz. vol. 149; p. 399.  
 Car-coupling carry-iron. C. A. Humphrys. No. 925,477; June 22; Sp. p. 4993; Gaz. vol. 143; p. 881.  
 Car-coupling device. R. D. Gallagher, Jr. No. 915,341; Mar. 16; Sp. p. 3474; Gaz. vol. 140; p. 606.  
 Car-coupling device. J. W. and W. W. Howard. No. 931,927; Aug. 24; Sp. p. 4898; Gaz. vol. 145; p. 840.  
 Car-coupling device, Emergency. M. H. C. Turnbull and C. W. Tomlin. No. 934,483; Sept. 21; Sp. p. 3053; Gaz. vol. 146; p. 532.  
 Car-coupling, Emergency. E. Posson. No. 940,553; Nov. 16; Sp. p. 4691; Gaz. vol. 148; p. 780.  
 Car-coupling knuckle. W. S. Pirie. No. 921,158; May 11; Sp. p. 2162; Gaz. vol. 142; p. 381.  
 Car coupling, Mine. T. C. Nation. No. 908,880; Jan. 5; Sp. p. 926; Gaz. vol. 138; p. 148.  
 Car-coupling operating mechanism, Automatic. E. E. Turney. (Reissue.) No. 13,030; Oct. 26; Sp. p. 6035; Gaz. vol. 147; p. 1019.  
 Car-coupling uncoupling device. T. M. Ramsdell. No. 919,949; Apr. 27; Sp. p. 6386; Gaz. vol. 141; p. 1092.  
 Car-couplings, Centering mechanism for radially-movable. R. D. Gallagher, Jr. No. 916,946; Mar. 30; Sp. p. 6648; Gaz. vol. 140; p. 1184.  
 Car-couplings, Uncoupling-chain for. G. G. Davis. No. 942,134; Dec. 7; Sp. p. 232; Gaz. vol. 149; p. 35.  
 Car curtain-fastener, Vestibule. W. F. Kiesel, Jr. No. 915,358; Mar. 16; Sp. p. 3508; Gaz. vol. 140; p. 612.  
 Car delivering apparatus, Railway-. H. Hoffmann. No. 912,678; Feb. 16; Sp. p. 3427; Gaz. vol. 139; p. 612.  
 Car-derailing device. W. M. Mitchell. No. 923,683; June 1; Sp. p. 1255; Gaz. vol. 143; p. 195.  
 Car-derailing device. C. W. Reinsohl and W. M. Henderson. No. 925,725; June 22; Sp. p. 5509; Gaz. vol. 143; p. 960.  
 Car-door. J. W. Rumsey. No. 911,617; Feb. 9; Sp. p. 1177; Gaz. vol. 139; p. 223.  
 Car-door. Z. R. English. No. 923,961; June 8; Sp. p. 1901; Gaz. vol. 143; p. 317.  
 Car-door. A. A. Davis. No. 927,332; July 6; Sp. p. 1271; Gaz. vol. 144; p. 210.  
 Car-door. C. W. Leaning. No. 929,453; July 27; Sp. p. 5697; Gaz. vol. 144; p. 1000.  
 Car-door. R. R. Jones. No. 934,540; Sept. 21; Sp. p. 3153; Gaz. vol. 146; p. 550.  
 Car-door. D. S. Bailey. No. 936,209; Oct. 5; Sp. p. 1263; Gaz. vol. 147; p. 192.  
 Car-door. F. K. Malocsay. No. 938,427; Oct. 26; Sp. p. 5948; Gaz. vol. 147; p. 1008.  
 Car-door. F. K. Malocsay. No. 939,919; Nov. 9; Sp. p. 3238; Gaz. vol. 148; p. 533.  
 Car-door. F. K. Malocsay. No. 942,862; Dec. 7; Sp. p. 1728; Gaz. vol. 149; p. 280.  
 Car-door and means for operating it. W. M. Smith. No. 938,719; Nov. 2; Sp. p. 587; Gaz. vol. 148; p. 92.  
 Car door and step operating means combined, Railway-. M. O'Brien. No. 933,574; Sept. 7; Sp. p. 1249; Gaz. vol. 146; p. 185.  
 Car door, Box-. W. T. Anfield. No. 935,450; Sept. 28; Sp. p. 4970; Gaz. vol. 146; p. 878.  
 Car door, Box-freight-. G. W. Lohman. No. 926,067; June 22; Sp. p. 6234; Gaz. vol. 143; p. 1075.  
 Car door bracket. J. K. McGuire. No. 943,039; Dec. 14; Sp. p. 2181; Gaz. vol. 149; p. 373.  
 Car door, Combination side and grain-. H. Hedstrom. No. 928,308; July 20; Sp. p. 3379; Gaz. vol. 144; p. 594.  
 Car-door construction. L. Millis. No. 927,992; July 13; Sp. p. 2678; Gaz. vol. 144; p. 457.  
 Car-door fastener. F. O. Dohlin. No. 908,452; Jan. 5; Sp. p. 38; Gaz. vol. 138; p. 8.  
 Car-door fastener. C. L. Troon. No. 916,804; Mar. 30; Sp. p. 6353; Gaz. vol. 140; p. 1135.  
 Car-door for grain, coal, &c. R. R. Reaveley. No. 938,789; Nov. 2; Sp. p. 726; Gaz. vol. 148; p. 117.  
 Car-door gear. H. Allen. No. 929,268; July 27; Sp. p. 5313; Gaz. vol. 144; p. 939.  
 Car door, Grain-. J. B. Mockridge. No. 910,010; Jan. 19; Sp. p. 3180; Gaz. vol. 138; p. 587.  
 Car door, Grain-. D. W. Thomas. No. 914,994; Mar. 9; Sp. p. 2757; Gaz. vol. 140; p. 465.  
 Car door, Grain-. L. Dimick. No. 915,566; Mar. 16; Sp. p. 3944; Gaz. vol. 140; p. 681.  
 Car door, Grain-. N. Hoople. No. 921,701; May 18; Sp. p. 3318; Gaz. vol. 142; p. 590.  
 Car door, Grain-. W. G. Douglas and W. Robinson. No. 927,335; July 6; Sp. p. 1275; Gaz. vol. 144; p. 211.  
 Car door, Grain-. C. S. Eaton. No. 931,739; Aug. 24; Sp. p. 4481; Gaz. vol. 145; p. 780.  
 Car door, Grain-. P. J. A. Schnoor. No. 932,335; Aug. 24; Sp. p. 5724; Gaz. vol. 145; p. 977.  
 Car door, Grain-. A. J. Denton. No. 936,764; Oct. 12; Sp. p. 2441; Gaz. vol. 147; p. 406.  
 Car door, Grain-. J. F. McGlenn. No. 937,630; Oct. 19; Sp. p. 4235; Gaz. vol. 147; p. 722.  
 Car door, Grain-. H. J. Bickle and M. McMillan. No. 939,660; Nov. 9; Sp. p. 2690; Gaz. vol. 148; p. 443.  
 Car door, Grain-. H. W. Richards. No. 941,099; Nov. 23; Sp. p. 5852; Gaz. vol. 148; p. 987.  
 Car door, Grain-. W. S. Driskell. No. 942,551; Dec. 7; Sp. p. 1095; Gaz. vol. 149; p. 177.  
 Car door, Grain-. W. H. Ascue. No. 942,994; Dec. 14; Sp. p. 2080; Gaz. vol. 149; p. 358.  
 Car-door hanger. P. M. Elliott. No. 924,648; June 15; Sp. p. 3347; Gaz. vol. 143; p. 576.  
 Car-door hanger. C. L. Bundy. No. 930,348; Aug. 10; Sp. p. 1465; Gaz. vol. 145; p. 268.  
 Car-door hanger. R. E. Frame and C. G. Harrington. No. 941,069; Nov. 23; Sp. p. 5794; Gaz. vol. 148; p. 977.  
 Car-door hanger and track, Combined. E. A. Hill. No. 942,324; Dec. 7; Sp. p. 629; Gaz. vol. 149; p. 100.  
 Car-door hanger, Freight-. A. O. Banks. No. 937,751; Oct. 26; Sp. p. 4484; Gaz. vol. 147; p. 778.  
 Car-door lock. C. H. Lewis. No. 922,168; May 18; Sp. p. 4248; Gaz. vol. 142; p. 743.  
 Car-door lock, Automatic burglar-proof. H. L. App, J. H. Baker, and E. G. Bolton. No. 924,874; June 15; Sp. p. 3828; Gaz. vol. 143; p. 653.  
 Car-door lock, Freight-. L. Wadsworth. No. 932,658; Aug. 31; Sp. p. 6416; Gaz. vol. 145; p. 1107.  
 Car-door lock, Freight-. W. C. Kneale. No. 935,526; Sept. 28; Sp. p. 5140; Gaz. vol. 146; p. 903.  
 Car-door lock, Railway and other. O. Schaller. No. 924,502; June 8; Sp. p. 3026; Gaz. vol. 143; p. 494.  
 Car-door mechanism. C. A. Lindstörn. No. 917,321; Apr. 6; Sp. p. 755; Gaz. vol. 141; p. 128.  
 Car-door mechanism. R. V. Sage. No. 942,108; Dec. 7; Sp. p. 162; Gaz. vol. 149; p. 25.  
 Car-door operating device, Dump-. F. L. Irwin. (Reissue.) No. 12,981; June 29; Sp. p. 7534; Gaz. vol. 143; p. 1326.  
 Car-door operating mechanism. J. F. Streib. No. 930,434; Aug. 10; Sp. p. 1637; Gaz. vol. 145; p. 296.



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 Car-door-operating mechanism. C. A. Lindström. No. 939,426; Nov. 9; Sp. p. 2187; Gaz. vol. 148; p. 363.  
 Car-door-operating mechanism. R. E. Frame. No. 944,261; Dec. 28; Sp. p. 4769; Gaz. vol. 149; p. 843.  
 Car-door-operating mechanism, Dump-. S. Otis. No. 939,298; Nov. 9; Sp. p. 1878; Gaz. vol. 148; p. 320.  
 Car-door-operating mechanism, Electrically-controlled street or railway. H. Rowntree. No. 920,183; May 4; Sp. p. 177; Gaz. vol. 142, p. 29.  
 Car door-operating mechanism, Railway-. S. Otis. No. 935,050; Sept. 28; Sp. p. 4178; Gaz. vol. 146; p. 748.  
 Car-door operator. F. F. Unckrich and C. L. Seeley. No. 932,836; Aug. 31; Sp. p. 6790; Gaz. vol. 145; p. 1164.  
 Car door of gate, Railway-. L. A. Sherman. No. 925,139; June 15; Sp. p. 4354; Gaz. vol. 143; p. 743.  
 Car door, Passenger-. S. R. Skov and T. Scullin. No. 916,045; Mar. 23; Sp. p. 4892; Gaz. vol. 140; p. 866.  
 Car-door-securer, Brake-controlled. F. J. Gilroy. No. 925,433; June 15; Sp. p. 4902; Gaz. vol. 143; p. 836.  
 Car-door-securing device. F. J. Gilroy. No. 924,160; June 8; Sp. p. 2322; Gaz. vol. 143; p. 381.  
 Car-door stay-roller. H. E. Keeler. No. 912,382; Feb. 16; Sp. p. 2800; Gaz. vol. 139; p. 511.  
 Car-doors, Loading-gate for. W. J. Atz. No. 934,496; Sept. 21; Sp. p. 3074; Gaz. vol. 146; p. 536.  
 Car-doors, Means for operating and locking. J. G. Horazdovsky. No. 910,819; Jan. 26; Sp. p. 4897; Gaz. vol. 138; p. 883.  
 Car draft and buffing gear. I. C. Wright. No. 923,398; June 1; Sp. p. 659; Gaz. vol. 143; p. 96.  
 Car draft and buffing gear. M. A. Garrett. No. 926,110; June 29; Sp. p. 6330; Gaz. vol. 143; p. 1124.  
 Car draft and buffing gearing, Railway-. E. L. Philipp. No. 933,201; Sept. 7; Sp. p. 377; Gaz. vol. 146; p. 59.  
 Car draft appliance, Railway-. H. C. Buhoup. No. 944,844; Dec. 28; Sp. p. 6075; Gaz. vol. 149; p. 1044.  
 Car draft-gear. N. H. Surdenik. No. 914,990; Mar. 9; Sp. p. 2751; Gaz. vol. 140; p. 464.  
 Car draft-gear, Railway-. H. M. Pfleger. No. 911,264; Feb. 2; Sp. p. 484; Gaz. vol. 139; p. 83.  
 Car draft-gear, Railway-. W. R. Matthews. No. 914,665; Mar. 9; Sp. p. 2109; Gaz. vol. 140; p. 358.  
 Car draft-gear, Railway-. H. C. Buhoup. No. 917,537; Apr. 6; Sp. p. 1133; Gaz. vol. 141; p. 198.  
 Car draft-gear, Railway-. W. R. Matthews. No. 922,708; May 25; Sp. p. 5379; Gaz. vol. 142; p. 948.  
 Car draft-rigging. F. L. Barber. No. 908,936; Jan. 5; Sp. p. 1031; Gaz. vol. 138; p. 166.  
 Car draft-rigging, Railway-. S. B. Haseltine. No. 911,874; Feb. 9; Sp. p. 1657; Gaz. vol. 139; p. 307.  
 Car draft-rigging, Railway-. W. J. Mack. No. 927,737; July 13; Sp. p. 2147; Gaz. vol. 144; p. 372.  
 Car draw-bar and extension-shank. M. A. Garrett. No. 931,193; Aug. 17; Sp. p. 3315; Gaz. vol. 145; p. 577.  
 Car draw-bar mechanism. C. M. Evans. No. 930,278; Aug. 3; Sp. p. 1331; Gaz. vol. 145; p. 220.  
 Car driving mechanism, Railway-. R. H. White. No. 921,491; May 25; Sp. p. 2870; Gaz. vol. 142; p. 494.  
 Car, Drop-bottom dump-. H. C. Brunker. No. 934,279; Sept. 14; Sp. p. 2647; Gaz. vol. 146; p. 440.  
 Car drop-door structure. F. W. Bradley. No. 914,786; Mar. 9; Sp. p. 2382; Gaz. vol. 140; p. 400.  
 Car, Dump-. S. Otis. No. 908,489; Jan. 5; Sp. p. 109; Gaz. vol. 138; p. 21.  
 Car, Dump-. A. Campbell. No. 913,357; Feb. 23; Sp. p. 4808; Gaz. vol. 139; p. 862.  
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 Car, Dump-. F. Hudson. No. 913,893; Mar. 2; Sp. p. 469; Gaz. vol. 140; p. 77.  
 Car, Dump-. A. Campbell. No. 914,242; Mar. 2; Sp. p. 1248; Gaz. vol. 140; p. 195.  
 Car, Dump-. C. H. Doty and W. L. Burner. No. 915,419; Mar. 16; Sp. p. 3629; Gaz. vol. 140; p. 632.  
 Car, Dump-. F. Seaberg. No. 915,800; Mar. 23; Sp. p. 4430; Gaz. vol. 140; p. 786.  
 Car, Dump-. H. Pries. No. 916,592; Mar. 30; Sp. p. 5975; Gaz. vol. 140; p. 1072.  
 Car, Dump-. C. W. Russell. No. 918,092; Apr. 13; Sp. p. 2304; Gaz. vol. 141; p. 413.  
 Car, Dump-. J. B. Rhodes. No. 918,911; Apr. 20; Sp. p. 4070; Gaz. vol. 141; p. 714.  
 Car, Dump-. T. R. McKnight. No. 920,616; May 4; Sp. p. 1056; Gaz. vol. 142; p. 172.  
 Car, Dump-. T. H. Stag. No. 921,300; May 11; Sp. p. 2463; Gaz. vol. 142; p. 429.  
 Car, Dump-. A. Lipschutz. No. 922,923; May 25; Sp. p. 5836; Gaz. vol. 142; p. 1018.  
 Car, Dump-. S. Otis. No. 923,695; June 1; Sp. p. 1281; Gaz. vol. 143; p. 199.  
 Car, Dump-. L. P. Gaston. No. 925,087; June 15; Sp. p. 4254; Gaz. vol. 143; p. 724.  
 Car, Dump-. H. Pries. No. 928,698; July 20; Sp. p. 4148; Gaz. vol. 144; p. 723.  
 Car, Dump-. W. Q. Olden. No. 929,104; July 27; Sp. p. 4967; Gaz. vol. 144; p. 884.  
 Car, Dump-. S. Otis. No. 930,790; Aug. 10; Sp. p. 2396; Gaz. vol. 145; p. 415.  
 Car, Dump-. T. R. McKnight. No. 932,564; Aug. 31; Sp. p. 6204; Gaz. vol. 145; p. 1075.  
 Car, Dump-. A. Campbell. No. 937,416; Oct. 19; Sp. p. 3813; Gaz. vol. 147; p. 649.  
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 Car, Dump-. C. H. Clark. No. 938,976; Nov. 2; Sp. p. 1138; Gaz. vol. 148; p. 182.  
 Car, Dump-. C. H. Clark. No. 939,588; Nov. 9; Sp. p. 2529; Gaz. vol. 148; p. 417.  
 Car, Dump-. J. Pearson. No. 940,187; Nov. 16; Sp. p. 3858; Gaz. vol. 148; p. 655.  
 Car, Dump-. J. B. Rhodes. No. 940,893; Nov. 23; Sp. p. 5423; Gaz. vol. 148; p. 919.  
 Car, Dump-. S. Otis. No. 941,381; Nov. 30; Sp. p. 6474; Gaz. vol. 148; p. 1102.  
 Car, Dump-. H. E. Thompson. No. 942,598; Dec. 7; Sp. p. 1181; Gaz. vol. 149; p. 192.  
 Car, Dumping-. S. Ketchum. No. 909,307; Jan. 12; Sp. p. 1790; Gaz. vol. 138; p. 321.  
 Car, Dumping-. R. G. Taylor. No. 911,090; Feb. 2; Sp. p. 133; Gaz. vol. 139; p. 25.  
 Car, Dumping-. A. Becker. No. 913,938; Mar. 2; Sp. p. 586; Gaz. vol. 140; p. 93.  
 Car, Dumping-. W. J. Chance. No. 914,925; Mar. 9; Sp. p. 2647; Gaz. vol. 140; p. 444.  
 Car, Dumping-. F. Knott. No. 917,313; Apr. 6; Sp. p. 755; Gaz. vol. 141; p. 125.  
 Car, Dumping-. J. L. Blaker. No. 924,726; June 15; Sp. p. 3510; Gaz. vol. 143; p. 603.  
 Car, Dumping-. C. P. Astrom. No. 925,792; June 22; Sp. p. 5669; Gaz. vol. 143; p. 984.  
 Car, Dumping-. E. C. Sherman and W. W. McKelvey. (Reissue.) No. 12,988; July 13; Sp. p. 3174; Gaz. vol. 144; p. 541.  
 Car, Dumping-. C. P. Astrom. No. 928,837; July 20; Sp. p. 4414; Gaz. vol. 144; p. 769.  
 Car, Dumping-. G. P. Ball. No. 930,335; Aug. 10; Sp. p. 1441; Gaz. vol. 145; p. 263.  
 Car, Dumping-. A. Becker. No. 931,720; Aug. 24; Sp. p. 4440; Gaz. vol. 145; p. 773.  
 Car, Dumping-. T. Lawson. No. 931,933; Aug. 24; Sp. p. 4907; Gaz. vol. 145; p. 843.  
 Car, Dumping-. A. Becker. No. 934,267; Sept. 14; Sp. p. 2632; Gaz. vol. 146; p. 436.  
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 Car, Dumping-. C. A. Lindström. No. 943,259; Dec. 14; Sp. p. 2637; Gaz. vol. 149; p. 447.  
 Car, Dumping and loading. G. C. Wortman. No. 910,626; Jan. 26; Sp. p. 4510; Gaz. vol. 138; p. 822.  
 Car-dumping apparatus. C. H. Wright and H. E. Scott. No. 932,529; Aug. 31; Sp. p. 6124; Gaz. vol. 145; p. 1063.  
 Car-dumping apparatus, Mine-. E. B. Hubbard and W. G. Adams. No. 909,303; Jan. 12; Sp. p. 1778; Gaz. vol. 138; p. 319.  
 Car-dumping mechanism, Cupola. J. Hyslop. No. 911,725; Feb. 9; Sp. p. 1395; Gaz. vol. 139; p. 259.  
 Car emergency-brake, Street-. J. Hauser. No. 925,904; June 22; Sp. p. 5911; Gaz. vol. 143; p. 1021.  
 Car emergency draft-gear attachment, Railway-. G. H. Gilman. No. 926,733; July 6; Sp. p. 29; Gaz. vol. 144; p. 7.  
 Car end construction. B. Julien and W. Point. No. 914,726; Mar. 9; Sp. p. 2256; Gaz. vol. 140; p. 379.  
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 Car end construction, Passenger-. C. A. Lindström. No. 917,085; Apr. 6; Sp. p. 249; Gaz. vol. 141; p. 45.  
 Car end framing. A. E. Ostrander. No. 909,208; Jan. 12; Sp. p. 1602; Gaz. vol. 138; p. 288.  
 Car end-gate, Mine-. L. F. Brubaker. No. 939,944; Nov. 9; Sp. p. 3288; Gaz. vol. 148; p. 542.  
 Car-fan. T. W. Fitzgerald and A. M. C. Devitalis. No. 912,553; Feb. 16; Sp. p. 3170; Gaz. vol. 139; p. 568.  
 Car-fender. J. D. Wright. No. 909,730; Jan. 12; Sp. p. 2622; Gaz. vol. 138; p. 463.  
 Car-fender. F. A. Nelson. No. 910,948; Jan. 26; Sp. p. 5129; Gaz. vol. 138; p. 924.  
 Car-fender. S. J. Ostrowski. No. 915,373; Mar. 16; Sp. p. 3533; Gaz. vol. 140; p. 617.  
 Car-fender. A. Doss. No. 916,540; Mar. 30; Sp. p. 5878; Gaz. vol. 140; p. 1055.  
 Car-fender. F. A. Seeley. No. 916,892; Mar. 30; Sp. p. 6517; Gaz. vol. 140; p. 1164.  
 Car-fender. F. C. Austin. No. 917,520; Apr. 6; Sp. p. 1103; Gaz. vol. 141; p. 193.  
 Car-fender. C. A. Bisbee. No. 918,268; Apr. 13; Sp. p. 2660; Gaz. vol. 141; p. 471.  
 Car-fender. W. L. Chrysler, W. J. Luther, and J. W. Kays. No. 918,733; Apr. 20; Sp. p. 3692; Gaz. vol. 141; p. 655.  
 Car-fender. G. R. Watson. No. 919,097; Apr. 20; Sp. p. 4419; Gaz. vol. 141; p. 772.  
 Car-fender. F. A. Nelson. No. 919,451; Apr. 27; Sp. p. 5349; Gaz. vol. 141; p. 924.  
 Car-fender. L. C. Noble. No. 921,443; May 11; Sp. p. 2780; Gaz. vol. 142; p. 478.  
 Car-fender. H. M. Lambert. No. 921,716; May 18; Sp. p. 3345; Gaz. vol. 142; p. 596.  
 Car-fender. I. B. Crane. No. 922,092; May 18; Sp. p. 4118; Gaz. vol. 142; p. 719.  
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 Car-fender. R. C. Morganstern and E. A. Shephard. No. 928,615; July 20; Sp. p. 3982; Gaz. vol. 144; p. 695.  
 Car-fender. N. F. Alston. No. 929,071; July 27; Sp. p. 4900; Gaz. vol. 144; p. 874.  
 Car-fender. Y. M. Créchion. No. 929,397; July 27; Sp. p. 5610; Gaz. vol. 144; p. 984.  
 Car-fender. P. A. Faust. No. 930,062; Aug. 3; Sp. p. 927; Gaz. vol. 145; p. 149.  
 Car-fender. G. W. Mahan. No. 931,326; Aug. 17; Sp. p. 3614; Gaz. vol. 145; p. 623.  
 Car-fender. E. Barrett. No. 933,950; Sept. 14; Sp. p. 2009; Gaz. vol. 146; p. 331.  
 Car-fender. C. Gardiner. No. 933,973; Sept. 14; Sp. p. 2058; Gaz. vol. 146; p. 339.  
 Car-fender. C. Arnesen. No. 935,574; Sept. 28; Sp. p. 5244; Gaz. vol. 146; p. 920.  
 Car-fender. A. J. Thornley. No. 935,828; Oct. 5; Sp. p. 494; Gaz. vol. 147; p. 70.  
 Car-fender. G. H. Carter. No. 936,703; Oct. 12; Sp. p. 2322; Gaz. vol. 147; p. 385.  
 Car-fender. C. T. Koenigsberg. No. 936,782; Oct. 12; Sp. p. 2474; Gaz. vol. 147; p. 412.  
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 Car-fender. W. R. Bruce and F. Coutts. No. 938,209; Oct. 26; Sp. p. 5468; Gaz. vol. 147; p. 934.  
 Car-fender. G. A. Etsler. No. 938,994; Nov. 2; Sp. p. 1179; Gaz. vol. 148; p. 188.  
 Car-fender. M. L. Keizur. No. 939,915; Nov. 9; Sp. p. 3222; Gaz. vol. 148; p. 531.  
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 Car-fender. T. J. Killen. No. 940,464; Nov. 16; Sp. p. 4491; Gaz. vol. 148; p. 751.  
 Car-fender. C. D. B. Fisk and D. R. Smith. No. 940,588; Nov. 16; Sp. p. 4756; Gaz. vol. 148; p. 792.  
 Car-fender. S. A. Youngberg and J. B. Parnall. No. 940,772; Nov. 23; Sp. p. 5176; Gaz. vol. 148; p. 879.  
 Car-fender. J. D. Wright. No. 942,027; Nov. 30; Sp. p. 7827; Gaz. vol. 148; p. 1319.  
 Car-fender. J. J. Kelly. No. 942,566; Dec. 7; Sp. p. 1121; Gaz. vol. 149; p. 182.  
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 Car-fender. J. A. Horne. No. 942,727; Dec. 7; Sp. p. 1442; Gaz. vol. 149; p. 236.  
 Car-fender. C. B. Albree. No. 943,588; Dec. 14; Sp. p. 3316; Gaz. vol. 149; p. 559.  
 Car-fender. J. Mylott. No. 943,635; Dec. 14; Sp. p. 3471; Gaz. vol. 149; p. 577.  
 Car-fender, Air-actuated street-. J. M. Clancy. No. 941,497; Nov. 30; Sp. p. 6731; Gaz. vol. 148; p. 1141.  
 Car-fender and brake. G. Trotter. No. 910,100; Jan. 19; Sp. p. 3359; Gaz. vol. 138; p. 617.  
 Car-fender, Automatic. H. C. Jordan. No. 912,574; Feb. 16; Sp. p. 3213; Gaz. vol. 139; p. 576.  
 Car-fender, Automatic. J. O. Kellum. No. 930,970; Aug. 10; Sp. p. 2785; Gaz. vol. 145; p. 473.  
 Car-fender for tramways and the like. S. Cirl. No. 944,075; Dec. 21; Sp. p. 4392; Gaz. vol. 149; p. 756.  
 Car-fender or guard. T. F. Hayes. No. 921,831; May 18; Sp. p. 3597; Gaz. vol. 142; p. 634.  
 Car-fender or guard, Railway-. G. A. Parmenter. No. 921,882; May 18; Sp. p. 3688; Gaz. vol. 142; p. 650.  
 Car-fender, Rubber-roller. W. M. Vallette. No. 921,316; May 11; Sp. p. 2501; Gaz. vol. 142; p. 434.  
 Car-fender, Street-. G. H. Bolduc. No. 912,530; Feb. 16; Sp. p. 3120; Gaz. vol. 139; p. 560.  
 Car-fender, Street-. J. Lovass and J. Ganz. No. 919,046; Apr. 20; Sp. p. 4335; Gaz. vol. 141; p. 757.  
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 Car-fender, Street-. J. Allez. No. 928,575; July 20; Sp. p. 3903; Gaz. vol. 144; p. 675.  
 Car-fender, Street-. H. D. Gardy. No. 929,205; July 27; Sp. p. 5183; Gaz. vol. 144; p. 919.  
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 Car-fender, Street-. G. J. Fleissner. No. 941,984; Nov. 30; Sp. p. 7749; Gaz. vol. 148; p. 1305.  
 Car-fender, Street-. N. Juhász. No. 944,267; Dec. 28; Sp. p. 4779; Gaz. vol. 149; p. 845.  
 Car-folding stake, Railway-. J. W. Kendrick. No. 911,998; Feb. 9; Sp. p. 1996; Gaz. vol. 139; p. 349.  
 Car-folding step, Subway-. J. M. Ernst. No. 919,333; Apr. 27; Sp. p. 5100; Gaz. vol. 141; p. 884.  
 Car for transporting ore or other material. W. C. Carr. No. 941,405; Nov. 30; Sp. p. 6548; Gaz. vol. 148; p. 1110.  
 Car-frame. H. M. Pfager. No. 929,705; Aug. 3; Sp. p. 134; Gaz. vol. 145; p. 24.  
 Car-frame. E. Posson. No. 940,357; Nov. 16; Sp. p. 4240; Gaz. vol. 148; p. 715.  
 Car-framework. E. C. Anderson. No. 931,555; Aug. 17; Sp. p. 4049; Gaz. vol. 145; p. 698.  
 Car, Freight-. H. W. Kirchner. No. 922,293; May 18; Sp. p. 4514; Gaz. vol. 142; p. 784.  
 Car, Freight-. R. V. Sage. No. 936,043; Oct. 5; Sp. p. 931; Gaz. vol. 147; p. 140.  
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 Car friction draft-rigging, Railway-. J. F. O'Connor. No. 909,446; Jan. 12; Sp. p. 2047; Gaz. vol. 138; p. 364.  
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 Car friction draft-rigging, Railway-. J. F. O'Connor. No. 922,619; May 25; Sp. p. 5198; Gaz. vol. 142; p. 920.  
 Car-gate. E. L. Gillespie. No. 919,711; Apr. 27; Sp. p. 5902; Gaz. vol. 141; p. 1013.  
 Car, Grain-. G. R. Dunn. No. 909,565; Jan. 12; Sp. p. 2288; Gaz. vol. 138; p. 405.  
 Car, Grain-door. B. F. Owens. No. 911,521; Feb. 2; Sp. p. 949; Gaz. vol. 139; p. 165.  
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 Car, Grain-door. W. S. Williams. No. 927,700; July 13; Sp. p. 2082; Gaz. vol. 144; p. 361.  
 Car, Grain-door. L. P. Roberts. No. 928,005; July 13; Sp. p. 2707; Gaz. vol. 144; p. 461.  
 Car, Grain-door. R. C. Russell. No. 942,221; Dec. 7; Sp. p. 417; Gaz. vol. 149; p. 64.  
 Car, Grain-door, Freight-. E. Posson. No. 913,763; Mar. 2; Sp. p. 181; Gaz. vol. 140; p. 30.  
 Car, Grain-door lock, Box-. C. O. French. No. 938,469; Nov. 2; Sp. p. 31; Gaz. vol. 148; p. 7.  
 Car, Grain-door, Railway-. M. Paulson. No. 909,111; Jan. 5; Sp. p. 1404; Gaz. vol. 138; p. 223.  
 Car, Hand-. M. B. Lloyd. No. 908,785; Jan. 5; Sp. p. 742; Gaz. vol. 138; p. 116.  
 Car, Hand-. J. Marshall. No. 940,175; Nov. 16; Sp. p. 3834; Gaz. vol. 148; p. 651.  
 Car, Hand-. J. D. Kern. No. 941,420; Nov. 30; Sp. p. 6579; Gaz. vol. 148; p. 1116.  
 Car, Hand-brake, Railway-. E. A. Barber. No. 911,285; Feb. 2; Sp. p. 523; Gaz. vol. 139; p. 89.  
 Car, Hand-propelled. C. D. Orcutt. No. 915,880; Mar. 23; Sp. p. 4580; Gaz. vol. 140; p. 813.  
 Car-haul. F. C. Greene. No. 943,874; Dec. 21; Sp. p. 3952; Gaz. vol. 149; p. 687.  
 Car-headlight. W. S. Waltz. No. 916,639; Mar. 30; Sp. p. 6062; Gaz. vol. 140; p. 1087.  
 Car-heater. E. J. Rauch. No. 914,305; Mar. 2; Sp. p. 1583; Gaz. vol. 140; p. 215.  
 Car-heater. J. M. Coleman. No. 937,361; Oct. 19; Sp. p. 3663; Gaz. vol. 147; p. 630.  
 Car-heater. J. F. McElroy. No. 942,040; Nov. 30; Sp. p. 7852; Gaz. vol. 148; p. 1323.  
 Car heating and ventilating apparatus. F. H. Farrington. No. 940,636; Nov. 16; Sp. p. 4851; Gaz. vol. 148; p. 808.  
 Car-heating system. T. Parker. No. 923,570; June 1; Sp. p. 1019; Gaz. vol. 143; p. 156.  
 Car, Hopper-. E. W. Summers. No. 918,390; Apr. 13; Sp. p. 2893; Gaz. vol. 141; p. 511.  
 Car, Hopper-. E. Ullmann. No. 934,860; Sept. 21; Sp. p. 3789; Gaz. vol. 146; p. 657.  
 Car-indicator. E. Schupp. No. 930,318; Aug. 3; Sp. p. 1399; Gaz. vol. 145; p. 232.  
 Car-jack, Suspension. A. O. Brill. No. 909,535; Jan. 12; Sp. p. 2228; Gaz. vol. 138; p. 396.  
 Car jacking apparatus, Railway. C. Ruegg. No. 932,811; Aug. 31; Sp. p. 6746; Gaz. vol. 145; p. 1157.  
 Car life-saving device, Street-. W. De Silva. No. 934,503; Sept. 21; Sp. p. 3098; Gaz. vol. 146; p. 540.  
 Car-lift. O. V. Green. No. 918,313; Apr. 13; Sp. p. 2744; Gaz. vol. 141; p. 486.  
 Car-lighting system. S. Krohn. No. 925,110; June 15; Sp. p. 4300; Gaz. vol. 143; p. 733.  
 Car-lighting system. E. C. Folsom. No. 932,114; Aug. 24; Sp. p. 5298; Gaz. vol. 145; p. 903.  
 Carlining, Box-. C. H. Clark. No. 918,965; Apr. 20; Sp. p. 4188; Gaz. vol. 141; p. 732.  
 Car loader, Automatic box-. J. E. Jones. No. 930,381; Aug. 10; Sp. p. 1534; Gaz. vol. 145; p. 278.  
 Car loading apparatus, Box-. F. D. Buftum. No. 914,017; Mar. 2; Sp. p. 788; Gaz. vol. 140; p. 121.  
 Car loading machine, Box-. A. J. Gurney. No. 943,225; Dec. 14; Sp. p. 2558; Gaz. vol. 149; p. 434.  
 Car location-indicator. E. and G. Hagstrom. No. 916,549; Mar. 30; Sp. p. 5898; Gaz. vol. 140; p. 1058.  
 Car lock and seal. J. MacKenzie. No. 917,089; Apr. 6; Sp. p. 257; Gaz. vol. 141; p. 47.  
 Car-loading device, Dump-. C. H. Doty, V. L. Burner, and T. H. Stagg. No. 921,376; May 11; Sp. p. 2651; Gaz. vol. 142; p. 456.  
 Car, Mine-. G. L. Bell. No. 921,506; May 11; Sp. p. 2910; Gaz. vol. 142; p. 499.  
 Car, Mine-. J. M. Hansen. No. 921,829; May 18; Sp. p. 3594; Gaz. vol. 142; p. 634.  
 Car, Mine-. T. W. and C. B. Weaver. No. 926,446; June 29; Sp. p. 7013; Gaz. vol. 143; p. 1235.  
 Car, Mining-. C. M. Dibler. No. 920,033; Apr. 27; Sp. p. 6566; Gaz. vol. 141; p. 1119.  
 Car, Motor-. W. S. Hovey and C. B. Stebbins. No. 943,680; Dec. 21; Sp. p. 3563; Gaz. vol. 149; p. 620.



*Alphabetical list of inventions—Continued.*

- Car, Motor hand-. W. S. Hovey and M. H. Rix. No. 939,423; Nov. 9; Sp. p. 2176; Gaz. vol. 148; p. 362.  
 Car-mover. W. McLeish. No. 938,328; Oct. 26; Sp. p. 5722; Gaz. vol. 147; p. 975.  
 Car-mover. R. F. Hageman. No. 939,249; Nov. 9; Sp. p. 1733; Gaz. vol. 148; p. 301.  
 Car-mover. F. C. Bailey. No. 944,763; Dec. 28; Sp. p. 5901; Gaz. vol. 149; p. 1017.  
 Car-moving device. W. H. Colyar. No. 943,654; Dec. 21; Sp. p. 3520; Gaz. vol. 149; p. 613.  
 Car, Muck-. J. W. Henderson and J. E. Sheriff. No. 919,863; Apr. 27; Sp. p. 6236; Gaz. vol. 141; p. 1064.  
 Car, Ore dump-. C. H. Clark. No. 944,232; Dec. 21; Sp. p. 4701; Gaz. vol. 149; p. 806.  
 Car packing case or box, Motor-. E. Weinacht. No. 919,798; Apr. 27; Sp. p. 6060; Gaz. vol. 141; p. 1042.  
 Car, Passenger-. S. M. Curwen and W. M. Smith. No. 909,762; Jan. 12; Sp. p. 2678; Gaz. vol. 138; p. 473.  
 Car, Passenger-. H. Howson. No. 911,987; Feb. 9; Sp. p. 1968; Gaz. vol. 139; p. 345.  
 Car, Passenger-. E. T. Robinson. No. 914,751; Mar. 9; Sp. p. 2819; Gaz. vol. 140; p. 388.  
 Car, Passenger-. H. Howson. No. 917,607; Apr. 6; Sp. p. 1256; Gaz. vol. 141; p. 222.  
 Car, Passenger-. W. J. Mackle. No. 918,344; Apr. 13; Sp. p. 2808; Gaz. vol. 141; p. 496.  
 Car, Passenger-. H. Howson. No. 920,062; Apr. 27; Sp. p. 6639; Gaz. vol. 141; p. 1129.  
 Car, Passenger-. F. Koch. No. 921,848; May 18; Sp. p. 3634; Gaz. vol. 142; p. 640.  
 Car, Passenger-. S. M. Curwen. No. 922,395; May 18; Sp. p. 4720; Gaz. vol. 142; p. 817.  
 Car, Passenger-. H. Howson. No. 922,430; May 18; Sp. p. 4790; Gaz. vol. 142; p. 829.  
 Car, Passenger-. F. Koch. No. 922,782; May 25; Sp. p. 5529; Gaz. vol. 142; p. 972.  
 Car, Passenger-. C. K. Pickles. No. 925,786; June 22; Sp. p. 5659; Gaz. vol. 143; p. 982.  
 Car, Passenger-. P. M. Kling. No. 928,983; July 27; Sp. p. 4716; Gaz. vol. 144; p. 846.  
 Car, Passenger-. F. Koch. No. 928,985; July 27; Sp. p. 4718; Gaz. vol. 144; p. 847.  
 Car, Passenger-. S. M. Curwen and W. M. Smith. No. 934,142; Sept. 14; Sp. p. 2407; Gaz. vol. 146; p. 394.  
 Car, Passenger-. C. K. Pickles. No. 934,350; Sept. 14; Sp. p. 2784; Gaz. vol. 146; p. 463.  
 Car, Passenger-. F. H. Lincoln. No. 935,853; Oct. 5; Sp. p. 540; Gaz. vol. 147; p. 78.  
 Car, Passenger-. H. Rowntree. No. 935,929; Oct. 5; Sp. p. 704; Gaz. vol. 147; p. 103.  
 Car, Passenger-. P. M. Kling. No. 942,265; Dec. 7; Sp. p. 503; Gaz. vol. 149; p. 79.  
 Car, Passenger railway-. J. H. E. Branson. No. 938,037; Oct. 26; Sp. p. 5080; Gaz. vol. 147; p. 875.  
 Car, Passenger railway-. L. E. Paden. No. 941,807; Nov. 30; Sp. p. 7402; Gaz. vol. 148; p. 1244.  
 Car passenger-registering apparatus. J. J. McDermott. No. 916,359; Mar. 23; Sp. p. 5464; Gaz. vol. 140; p. 970.  
 Car passenger-registering device. W. S. Lytle. No. 924,481; June 8; Sp. p. 2972; Gaz. vol. 143; p. 487.  
 Car, Pay-within passenger railway-. A. H. Englund. No. 939,899; Nov. 9; Sp. p. 3183; Gaz. vol. 148; p. 525.  
 Car-pedestal. J. W. Gibney. No. 910,284; Jan. 19; Sp. p. 3792; Gaz. vol. 138; p. 683.  
 Car pipe-line coupling. P. A. Senecal. No. 915,894; Mar. 23; Sp. p. 4606; Gaz. vol. 140; p. 817.  
 Car pipe-line coupling. P. A. Senecal. No. 937,874; Oct. 26; Sp. p. 4746; Gaz. vol. 147; p. 820.  
 Car-placer. W. W. Wilcox and S. Putman. No. 934,778; Sept. 21; Sp. p. 3621; Gaz. vol. 146; p. 631.  
 Car-platform arrangement, Street-. P. N. Jones. No. 922,285; May 18; Sp. p. 4503; Gaz. vol. 142; p. 781.  
 Car-platform knee. H. E. Haddock. No. 937,521; Oct. 19; Sp. p. 4033; Gaz. vol. 147; p. 685.  
 Car, Poultry-. W. M. Ryan and J. E. Candlin. No. 910,865; Jan. 26; Sp. p. 4970; Gaz. vol. 138; p. 897.  
 Car, Poultry-. H. W. Burgett. No. 913,690; Mar. 2; Sp. p. 19; Gaz. vol. 140; p. 6.  
 Car, Push-. G. C. Wortman. No. 908,635; Jan. 5; Sp. p. 431; Gaz. vol. 138; p. 69.  
 Car, Push-. G. C. Wortman. No. 911,191; Feb. 2; Sp. p. 331; Gaz. vol. 139; p. 58.  
 Car-rack. W. B. McCarthy. No. 913,228; Feb. 23; Sp. p. 4552; Gaz. vol. 139; p. 818.  
 Car-rack. P. N. Landine. No. 938,153; Oct. 26; Sp. p. 5355; Gaz. vol. 147; p. 913.  
 Car, Railway-. S. Otis. No. 917,114; Apr. 6; Sp. p. 304; Gaz. vol. 141; p. 56.  
 Car, Railway-. E. T. Robinson. No. 917,361; Apr. 6; Sp. p. 824; Gaz. vol. 141; p. 141.  
 Car, Railway-. E. W. Summers. No. 918,098; Apr. 13; Sp. p. 2311; Gaz. vol. 141; p. 415.  
 Car, Railway-. E. A. Barber. No. 935,633; Oct. 5; Sp. p. 12; Gaz. vol. 147; p. 4.  
 Car, Railway-. C. L. Schwartz. No. 935,696; Oct. 5; Sp. p. 159; Gaz. vol. 147; p. 25.  
 Car, Railway-. J. W. Slaven. No. 937,106; Oct. 19; Sp. p. 3117; Gaz. vol. 147; p. 548.  
 Car, Railway-. H. S. Hart. No. 941,249; Nov. 23; Sp. p. 6185; Gaz. vol. 148; p. 1037.  
 Car, Railway motor-. W. S. Hovey. No. 914,347; Mar. 2; Sp. p. 1466; Gaz. vol. 140; p. 228.  
 Car, Railway motor-. W. S. Hovey. No. 914,348; Mar. 2; Sp. p. 1471; Gaz. vol. 140; p. 229.  
 Car, Railway motor-. W. S. Hovey and M. H. Rix. No. 938,582; Nov. 2; Sp. p. 326; Gaz. vol. 148; p. 48.  
 Car, Railway motor hand-. W. S. Hovey and M. H. Rix. No. 944,557; Dec. 28; Sp. p. 5453; Gaz. vol. 149; p. 947.  
 Car, Railway postal. P. Kennedy. No. 924,165; June 8; Sp. p. 2333; Gaz. vol. 143; p. 383.  
 Car, Railway steam motor-. T. H. Curtis. No. 920,114; May 4; Sp. p. 44; Gaz. vol. 142; p. 6.  
 Car, Railway-track. M. L. Jenkins. No. 910,201; Jan. 19; Sp. p. 3582; Gaz. vol. 138; p. 650.  
 Car-releasing device, Log-. E. Beaudin. No. 913,094; Feb. 23; Sp. p. 4269; Gaz. vol. 139; p. 773.  
 Car-replacer. E. Babin. No. 909,516; Jan. 12; Sp. p. 2197; Gaz. vol. 138; p. 390.  
 Car-replacer. G. H. Sargent. No. 909,944; Jan. 19; Sp. p. 3049; Gaz. vol. 138; p. 565.  
 Car-replacer. J. Lanius. No. 930,868; Aug. 10; Sp. p. 2558; Gaz. vol. 145; p. 441.  
 Car-replacer. A. G. Heath and J. W. Howard. No. 935,845; Oct. 5; Sp. p. 518; Gaz. vol. 147; p. 75.  
 Car-replacer. M. L. Stombaugh. No. 937,655; Oct. 19; Sp. p. 4270; Gaz. vol. 147; p. 729.  
 Car-replacers, Ratchet-clamp for. W. Gakle. No. 942,632; Dec. 7; Sp. p. 1251; Gaz. vol. 149; p. 205.  
 Car-replacing frog. L. Pluard. No. 914,070; Mar. 2; Sp. p. 890; Gaz. vol. 140; p. 139.  
 Car-rerailer. R. H. Smith. No. 928,810; July 20; Sp. p. 4355; Gaz. vol. 144; p. 759.  
 Car, Revolving matte-. J. C. Kilker. No. 921,999; May 18; Sp. p. 3938; Gaz. vol. 142; p. 638.  
 Car-roof. J. Masker. No. 913,412; Feb. 23; Sp. p. 4909; Gaz. vol. 139; p. 881.  
 Car-roof. E. Posson. No. 917,128; Apr. 6; Sp. p. 347; Gaz. vol. 141; p. 61.  
 Car-roof. P. H. Murphy. No. 929,236; July 27; Sp. p. 5242; Gaz. vol. 144; p. 929.  
 Car-roof. W. P. Murphy. No. 930,679; Aug. 10; Sp. p. 2164; Gaz. vol. 145; p. 378.  
 Car-roof. E. V. Donelson. No. 931,736; Aug. 24; Sp. p. 4474; Gaz. vol. 145; p. 779.  
 Car-roof. B. S. Warren and S. Herbert. No. 933,143; Sept. 7; Sp. p. 215; Gaz. vol. 146; p. 37.  
 Car-roof. J. Pearson. No. 940,355; Nov. 16; Sp. p. 4234; Gaz. vol. 148; p. 714.  
 Car-roof. E. C. Covert. No. 942,249; Dec. 7; Sp. p. 474; Gaz. vol. 149; p. 73.  
 Car-roof construction. L. G. Nilson. No. 919,931; Apr. 27; Sp. p. 6358; Gaz. vol. 141; p. 1087.  
 Car-roof construction, Freight-. W. Queenan and C. Murphy. No. 919,461; Apr. 27; Sp. p. 5375; Gaz. vol. 141; p. 928.  
 Car-roof, Metal. J. J. Hoffman. No. 929,221; July 27; Sp. p. 5207; Gaz. vol. 144; p. 924.  
 Car-roof, Outside. P. H. Murphy. No. 915,205; Mar. 16; Sp. p. 3226; Gaz. vol. 140; p. 563.  
 Car-roof, Outside. J. J. Hoffman. No. 915,350; Mar. 16; Sp. p. 3491; Gaz. vol. 140; p. 609.  
 Car-roof, Outside. J. J. Hoffman. No. 915,352; Mar. 16; Sp. p. 3495; Gaz. vol. 140; p. 610.  
 Car running-gear mechanism and brake apparatus, Tramway-. V. Zdziarski. No. 926,534; June 29; Sp. p. 7155; Gaz. vol. 143; p. 1264.  
 Car running-gear, Mine-. J. M. and R. F. Phillips. No. 928,066; July 13; Sp. p. 2830; Gaz. vol. 144; p. 482.  
 Car safety apparatus, Motor-. J. Barberie and T. J. Walsh. No. 927,475; July 13; Sp. p. 1533; Gaz. vol. 144; p. 285.  
 Car safety appliance, Railway-. R. Belden. No. 917,525; Apr. 6; Sp. p. 1115; Gaz. vol. 141; p. 195.  
 Car safety-bridge. J. A. Musgrove, Jr. No. 915,622; Mar. 16; Sp. p. 4057; Gaz. vol. 140; p. 700.  
 Car safety device, Railway-. W. S. Jackson. No. 926,334; June 29; Sp. p. 6809; Gaz. vol. 143; p. 1198.  
 Car safety-stop. W. Gunter. No. 934,166; Sept. 14; Sp. p. 2449; Gaz. vol. 146; p. 403.  
 Car sand-box. D. B. Keeperts. No. 937,813; Oct. 26; Sp. p. 4615; Gaz. vol. 147; p. 799.  
 Car sand-box. J. C. Duner. (Reissue.) No. 13,063; Dec. 28; Sp. p. 6410; Gaz. vol. 149; p. 1100.  
 Car-schedule. G. G. Crane. No. 934,507; Sept. 21; Sp. p. 3096; Gaz. vol. 146; p. 540.  
 Car-seal. P. W. Ellis. No. 912,947; Feb. 16; Sp. p. 3966; Gaz. vol. 139; p. 698.  
 Car-seat. E. G. Budd and C. A. Condé. No. 909,147; Jan. 12; Sp. p. 1487; Gaz. vol. 138; p. 270.  
 Car-seat. M. M. Murchison. No. 923,196; June 1; Sp. p. 157; Gaz. vol. 143; p. 26.  
 Car-seat. H. Witte and J. B. Schuermann. No. 925,066; June 15; Sp. p. 4213; Gaz. vol. 143; p. 718.  
 Car-seat. H. Witte. No. 934,121; Sept. 14; Sp. p. 2353; Gaz. vol. 146; p. 387.  
 Car-seat. H. Witte. No. 935,242; Sept. 28; Sp. p. 4561; Gaz. vol. 146; p. 811.  
 Car-seat backs, Adjustable seat-back support for reversible. R. L. Mangan. No. 922,303; May 18; Sp. p. 4532; Gaz. vol. 142; p. 787.  
 Car-seat, Folding. J. S. Farrell and J. S. Lewis. No. 939,593; Nov. 9; Sp. p. 2548; Gaz. vol. 148; p. 418.  
 Car-seat-operating device. M. M. Murchison. No. 923,197; June 1; Sp. p. 160; Gaz. vol. 143; p. 27.  
 Car seat, Railway-. W. R. Smith and J. A. Sanford. No. 935,700; Oct. 5; Sp. p. 164; Gaz. vol. 147; p. 26.  
 Car-seat-turning mechanism. F. H. Henry. No. 924,458; June 8; Sp. p. 2934; Gaz. vol. 143; p. 480.

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- Car-seats, Extensible leg-rest for. H. Witte. No. 926,309; June 29; Sp. p. 6746; Gaz. vol. 143; p. 1189.
- Car-seats, Wear-strip and retainer for securing coverings to the frames of. F. H. Henry. No. 941,875; Nov. 30; Sp. p. 7545; Gaz. vol. 148; p. 1269.
- Car-seating. J. B. Kilburn. No. 911,246; Feb. 2; Sp. p. 445; Gaz. vol. 139; p. 76.
- Car, Semiconvertible. E. S. Bucknam. No. 920,020; Apr. 27; Sp. p. 6529; Gaz. vol. 141; p. 1114.
- Car, Semiconvertible. E. T. Robinson. No. 925,133; June 15; Sp. p. 4344; Gaz. vol. 143; p. 741.
- Car-sheathing. H. U. Morton. No. 920,981; May 11; Sp. p. 1806; Gaz. vol. 142; p. 320.
- Car-sheathing. L. C. Bassford. No. 932,367; Aug. 24; Sp. p. 5779; Gaz. vol. 145; p. 987.
- Car, Shovel-. E. S. Bennett. No. 922,450; May 25; Sp. p. 4841; Gaz. vol. 142; p. 864.
- Car side-bearing and center-bearing testing machine, Railway-. J. F. O'Connor. No. 932,567; Aug. 31; Sp. p. 6215; Gaz. vol. 145; p. 1076.
- Car side-bearing, Railway-. J. F. Courson. No. 931,681; Aug. 17; Sp. p. 4316; Gaz. vol. 145; p. 737.
- Car side stake. W. S. Atwood. No. 909,128; Jan. 5; Sp. p. 1437; Gaz. vol. 138; p. 230.
- Car-squeeze. C. H. Dempsey. No. 936,523; Oct. 12; Sp. p. 1958; Gaz. vol. 147; p. 323.
- Car-stake. S. Haley. No. 912,122; Feb. 9; Sp. p. 2240; Gaz. vol. 139; p. 388.
- Car-stake. R. J. Braun. No. 926,045; June 22; Sp. p. 6177; Gaz. vol. 143; p. 1067.
- Car-stake. T. H. MacLafferty. No. 926,203; June 29; Sp. p. 6538; Gaz. vol. 143; p. 1156.
- Car-stake. F. Shillin. No. 930,623; Aug. 10; Sp. p. 2059; Gaz. vol. 145; p. 361.
- Car-stake. T. H. MacLafferty. No. 944,739; Dec. 28; Sp. p. 5842; Gaz. vol. 149; p. 1009.
- Car stake-holder, Logging and platform. W. T. Edney. No. 911,555; Feb. 2; Sp. p. 1020; Gaz. vol. 139; p. 176.
- Car stake, Logging-. A. Benedict. No. 944,838; Dec. 28; Sp. p. 6054; Gaz. vol. 149; p. 1042.
- Car stake or spike, Logging-. D. W. Marsh. No. 919,447; Apr. 27; Sp. p. 5342; Gaz. vol. 141; p. 923.
- Car stake, Railway-. S. W. Murray. No. 912,149; Feb. 9; Sp. p. 2287; Gaz. vol. 139; p. 396.
- Car-stanchion. W. P. Scofield. No. 927,288; July 6; Sp. p. 1200; Gaz. vol. 144; p. 197.
- Car-standard. J. F. Fender. No. 934,802; Sept. 21; Sp. p. 3678; Gaz. vol. 146; p. 638.
- Car-standard, Trip. W. Strathy. No. 913,925; Mar. 2; Sp. p. 549; Gaz. vol. 140; p. 88.
- Car station or street indicator. C. M. Dickinson. No. 923,341; June 1; Sp. p. 532; Gaz. vol. 143; p. 77.
- Car, Steel. C. H. Anderson. No. 943,213; Dec. 14; Sp. p. 2540; Gaz. vol. 149; p. 430.
- Car, Steel box-. R. E. Frame and C. G. Harrington. No. 941,067; Nov. 23; Sp. p. 5787; Gaz. vol. 148; p. 976.
- Car steel underframe, Railway-. G. B. Robbins and W. E. Sharp. No. 926,897; July 6; Sp. p. 397; Gaz. vol. 144; p. 64.
- Car steering and governing mechanism, Motor-. D. H. Coles. No. 914,020; Mar. 2; Sp. p. 802; Gaz. vol. 140; p. 122.
- Car-step. L. Yeager, Jr. No. 917,511; Apr. 6; Sp. p. 1085; Gaz. vol. 141; p. 190.
- Car-step. L. Yeager, Jr. No. 919,278; Apr. 20; Sp. p. 4964; Gaz. vol. 141; p. 832.
- Car-step. J. Tischler and O. Henklein. No. 935,068; Sept. 28; Sp. p. 4219; Gaz. vol. 146; p. 754.
- Car step, Auxiliary passenger-. G. B. Milliken and A. B. Weaver. No. 937,084; Oct. 19; Sp. p. 3076; Gaz. vol. 147; p. 540.
- Car-step, Extension. E. W. Fuhr. No. 909,577; Jan. 12; Sp. p. 2311; Gaz. vol. 138; p. 410.
- Car-step, Extension. U. E. Crofut, Jr. No. 924,537; June 8; Sp. p. 3100; Gaz. vol. 143; p. 506.
- Car-step, Extension. D. Jones. No. 928,128; July 13; Sp. p. 2940; Gaz. vol. 144; p. 502.
- Car-step, Folding. J. Nesbitt. No. 929,471; July 27; Sp. p. 5731; Gaz. vol. 144; p. 1006.
- Car-step, Folding. G. F. Brandau. No. 939,970; Nov. 16; Sp. p. 3345; Gaz. vol. 148; p. 579.
- Car-step-raising device. W. W. Brown. No. 925,453; June 22; Sp. p. 4949; Gaz. vol. 143; p. 874.
- Car, Stock-. T. J. McKay. No. 928,269; July 20; Sp. p. 3279; Gaz. vol. 144; p. 581.
- Car-stop. J. T. Howell. No. 911,501; Feb. 2; Sp. p. 906; Gaz. vol. 139; p. 159.
- Car-stop. R. E. Davies. No. 925,875; June 22; Sp. p. 5850; Gaz. vol. 143; p. 1011.
- Car-stop, Automatic. J. J. Fleming. No. 914,938; Mar. 9; Sp. p. 2670; Gaz. vol. 140; p. 448.
- Car stop, Automatic mine-. U. Carr. No. 917,540; Apr. 6; Sp. p. 1138; Gaz. vol. 141; p. 199.
- Car-strap. E. M. Hedley. No. 922,765; May 25; Sp. p. 5496; Gaz. vol. 142; p. 967.
- Car, Street-. C. O. Birney. No. 912,792; Feb. 16; Sp. p. 3704; Gaz. vol. 139; p. 651.
- Car, Street-. C. O. Birney. No. 924,420; June 8; Sp. p. 2866; Gaz. vol. 143; p. 468.
- Car, Street-. C. B. Price. No. 927,871; July 13; Sp. p. 2436; Gaz. vol. 144; p. 416.
- Car, Street-. C. B. Price. (Reissue.) No. 13,003; Aug. 3; Sp. p. 1436; Gaz. vol. 145; p. 239.
- Car, Street-. C. O. Birney. No. 931,724; Aug. 24; Sp. p. 4452; Gaz. vol. 145; p. 775.
- Car switch, Automatic street-. G. Flessa. No. 930,463; Aug. 10; Sp. p. 1690; Gaz. vol. 145; p. 305.
- Car switch-controller, Trolley-. S. Uslaner. No. 926,150; June 29; Sp. p. 6412; Gaz. vol. 143; p. 1138.
- Car switch-operating mechanism. F. G. Eibel. No. 940,136; Nov. 16; Sp. p. 3744; Gaz. vol. 148; p. 638.
- Car system, Overhead electrical. G. Heineman. No. 916,863; Mar. 30; Sp. p. 6468; Gaz. vol. 140; p. 1155.
- Car, Tank-. T. G. Phinny. No. 911,607; Feb. 9; Sp. p. 1140; Gaz. vol. 139; p. 220.
- Car, Tank-. C. N. Stevens. No. 930,101; Aug. 3; Sp. p. 1013; Gaz. vol. 145; p. 163.
- Car, Tank-. C. A. Lindström. No. 935,210; Sept. 28; Sp. p. 4498; Gaz. vol. 146; p. 800.
- Car, Tank-. H. W. Wolff. No. 943,803; Dec. 21; Sp. p. 3812; Gaz. vol. 149; p. 663.
- Car-tilting device, Cinder-. R. C. Veitch. No. 916,636; Mar. 30; Sp. p. 6056; Gaz. vol. 140; p. 1086.
- Car-track-sanding device. W. E. Fielding. No. 938,837; Nov. 2; Sp. p. 833; Gaz. vol. 148; p. 134.
- Car, Tram-. P. Kavanagh. No. 926,810; July 6; Sp. p. 206; Gaz. vol. 144; p. 35.
- Car, Transfer-. C. E. Dinkey. No. 922,103; May 18; Sp. p. 4138; Gaz. vol. 142; p. 723.
- Car transfer, Street-. J. Samuels. No. 917,492; Apr. 6; Sp. p. 1049; Gaz. vol. 141; p. 183.
- Car-trolley. A. Zaccaria and A. Belvedere. No. 917,396; Apr. 6; Sp. p. 888; Gaz. vol. 141; p. 153.
- Car-truck axles, Power transmission from. L. T. Mann. No. 910,211; Jan. 19; Sp. p. 3602; Gaz. vol. 138; p. 654.
- Car-turnstile. D. C. Fulton and W. B. Smith. No. 936,112; Oct. 5; Sp. p. 1077; Gaz. vol. 147; p. 164.
- Car, Two-way dump-. A. E. Ostrander. No. 909,209; Jan. 12; Sp. p. 1604; Gaz. vol. 138; p. 288.
- Car-underframe. W. P. Bettendorf. No. 909,360; Jan. 12; Sp. p. 1878; Gaz. vol. 138; p. 337.
- Car-underframe. A. Becker. No. 912,275; Feb. 16; Sp. p. 2580; Gaz. vol. 139; p. 475.
- Car-underframe. A. Becker. No. 912,276; Feb. 16; Sp. p. 2581; Gaz. vol. 139; p. 475.
- Car-underframe. A. Becker. No. 912,439; Feb. 16; Sp. p. 2922; Gaz. vol. 139; p. 530.
- Car-underframe. A. Becker. No. 912,440; Feb. 16; Sp. p. 2924; Gaz. vol. 139; p. 530.
- Car-underframe. H. M. Pfleger. No. 916,586; Mar. 30; Sp. p. 5964; Gaz. vol. 140; p. 1070.
- Car-underframe. C. H. Howard. No. 919,356; Apr. 27; Sp. p. 5136; Gaz. vol. 141; p. 892.
- Car-underframe. A. E. Ostrander. No. 920,384; May 4; Sp. p. 599; Gaz. vol. 142; p. 96.
- Car-underframe. A. Becker. No. 920,813; May 4; Sp. p. 1459; Gaz. vol. 142; p. 236.
- Car-underframe. C. H. Howard. No. 921,112; May 11; Sp. p. 2077; Gaz. vol. 142; p. 366.
- Car-underframe. C. H. Howard. No. 922,586; May 25; Sp. p. 5120; Gaz. vol. 142; p. 908.
- Car-underframe. H. M. Pfleger. No. 926,074; June 22; Sp. p. 6251; Gaz. vol. 143; p. 1077.
- Car-underframe. J. M. Ames. No. 928,925; July 27; Sp. p. 4603; Gaz. vol. 144; p. 826.
- Car-underframe. J. E. Tesseymann. No. 933,005; Aug. 31; Sp. p. 7090; Gaz. vol. 145; p. 1220.
- Car-underframe. A. Becker. No. 934,382; Sept. 14; Sp. p. 2847; Gaz. vol. 146; p. 475.
- Car-underframe. A. Becker. No. 934,383; Sept. 14; Sp. p. 2848; Gaz. vol. 146; p. 475.
- Car-underframe bolster construction. F. Koch. No. 938,770; Nov. 2; Sp. p. 684; Gaz. vol. 148; p. 110.
- Car underframe, Freight-. W. J. Lage. No. 920,759; May 4; Sp. p. 1340; Gaz. vol. 142; p. 218.
- Car underframe, Railway-. C. F. Rice. No. 929,630; July 27; Sp. p. 6047; Gaz. vol. 144; p. 1058.
- Car underframe, Railway-. E. Posson. No. 940,358; Nov. 16; Sp. p. 4241; Gaz. vol. 148; p. 715.
- Car underframe, Tank-. J. M. Ames. No. 928,924; July 27; Sp. p. 4598; Gaz. vol. 144; p. 826.
- Car understructure, Passenger-. J. F. Streib. No. 911,343; Feb. 2; Sp. p. 624; Gaz. vol. 139; p. 107.
- Car-unloading apparatus. J. W. Page. No. 942,840; Dec. 7; Sp. p. 1664; Gaz. vol. 149; p. 272.
- Car upper berth, Sleeping-. E. G. Budd. No. 922,850; May 25; Sp. p. 5674; Gaz. vol. 142; p. 994.
- Car upper berth, Sleeping-. J. B. Kilburn and E. G. Budd. No. 922,913; May 25; Sp. p. 5815; Gaz. vol. 142; p. 1014.
- Car-ventilating system. D. I. Cooke. No. 920,918; May 11; Sp. p. 1688; Gaz. vol. 142; p. 300.
- Car-ventilating system. D. I. Cooke. No. 932,761; Aug. 31; Sp. p. 6636; Gaz. vol. 145; p. 1142.
- Car-ventilator. S. C. Carroll. No. 914,924; Mar. 9; Sp. p. 2645; Gaz. vol. 140; p. 444.
- Car-ventilator. G. C. Breidert. No. 923,241; June 1; Sp. p. 248; Gaz. vol. 143; p. 41.
- Car-ventilator. C. M. Askegren. No. 939,784; Nov. 9; Sp. p. 2949; Gaz. vol. 148; p. 486.
- Car-ventilator. F. J. Linehan. No. 942,451; Dec. 7; Sp. p. 873; Gaz. vol. 149; p. 143.
- Car ventilator, Railway-. J. E. Ward. No. 911,689; Feb. 9; Sp. p. 1330; Gaz. vol. 139; p. 247.
- Car ventilator, Railway-. J. F. Ward. No. 936,686; Oct. 12; Sp. p. 2292; Gaz. vol. 147; p. 380.
- Car ventilator, Railway-. J. E. Ward. No. 941,290; Nov. 23; Sp. p. 6280; Gaz. vol. 148; p. 1051.



*Alphabetical list of inventions—Continued.*

- Car-vestibule diaphragms, Curtain for. H. H. Schroyer. No. 924,004; June 8; Sp. p. 1990; Gaz. vol. 143; p. 330.
- Car, War-. D. W. Meacham. No. 908,793; Jan. 5; Sp. p. 755; Gaz. vol. 138; p. 119.
- Car, Weed-burning. G. L. O'Neale. No. 939,538; Nov. 9; Sp. p. 2410; Gaz. vol. 148; p. 400.
- Car-wheel. P. J. Garrison. No. 908,659; Jan. 5; Sp. p. 498; Gaz. vol. 138; p. 77.
- Car-wheel. S. Wilkinson. No. 910,034; Jan. 19; Sp. p. 3227; Gaz. vol. 138; p. 595.
- Car-wheel. S. H. Lanyon. No. 922,161; May 18; Sp. p. 4241; Gaz. vol. 142; p. 741.
- Car-wheel. E. A. Booser. No. 922,844; May 25; Sp. p. 5664; Gaz. vol. 142; p. 992.
- Car-wheel. W. McConway. No. 929,320; July 27; Sp. p. 5466; Gaz. vol. 144; p. 959.
- Car-wheel. W. McConway. No. 929,321; July 27; Sp. p. 5468; Gaz. vol. 144; p. 959.
- Car-wheel. I. P. Todd. No. 929,347; July 27; Sp. p. 5528; Gaz. vol. 144; p. 968.
- Car-wheel. R. J. Gardner. No. 932,605; Aug. 31; Sp. p. 6311; Gaz. vol. 145; p. 1090.
- Car-wheel. F. E. Canda. No. 934,885; Sept. 21; Sp. p. 3835; Gaz. vol. 146; p. 665.
- Car-wheel. W. A. Church. No. 935,962; Oct. 5; Sp. p. 769; Gaz. vol. 147; p. 115.
- Car-wheel-aligning means. A. G. Olson. No. 935,924; Oct. 5; Sp. p. 695; Gaz. vol. 147; p. 102.
- Car-wheel and making the same. J. Slattery. No. 925,394; June 15; Sp. p. 4820; Gaz. vol. 143; p. 823.
- Car-wheel and making the same. F. E. Canda. No. 925,423; June 15; Sp. p. 4863; Gaz. vol. 143; p. 833.
- Car-wheel and making the same. F. E. Canda. No. 925,424; June 15; Sp. p. 4872; Gaz. vol. 143; p. 833.
- Car-wheel and manufacture. G. H. Bryant. No. 924,314; June 8; Sp. p. 2667; Gaz. vol. 143; p. 434.
- Car-wheel and mounting. T. Donohoe. No. 938,988; Nov. 2; Sp. p. 1168; Gaz. vol. 148; p. 186.
- Car-wheel, Forged steel. J. M. Hansen. No. 942,381; Dec. 7; Sp. p. 725; Gaz. vol. 149; p. 119.
- Car wheel, Mine-. J. T. Parks and M. T. Davis, Jr. No. 909,112; Jan. 5; Sp. p. 1407; Gaz. vol. 138; p. 274.
- Car wheel, Motor-. J. H. Symonds. No. 913,580; Feb. 23; Sp. p. 5294; Gaz. vol. 139; p. 937.
- Car wheel, Motor-. G. B. Winter. No. 942,025; Nov. 30; Sp. p. 7824; Gaz. vol. 148; p. 1318.
- Car-wheel removable tire. T. G. Aultman. No. 914,221; Mar. 2; Sp. p. 1202; Gaz. vol. 140; p. 188.
- Car-wheels, Abrading-shoe for truing up. J. M. Griffin. No. 925,170; June 15; Sp. p. 4416; Gaz. vol. 143; p. 754.
- Car-wheels and other circular objects, Mold for making chilled. T. D. West. No. 918,236; Apr. 13; Sp. p. 2589; Gaz. vol. 141; p. 461.
- Car-wheels, Manufacture of. C. E. Wollé. No. 922,655; May 25; Sp. p. 5270; Gaz. vol. 142; p. 931.
- Car-wheels, Means for lubricating flanges of. F. Regenold. No. 921,162; May 11; Sp. p. 2169; Gaz. vol. 142; p. 382.
- Car wind-screen, Motor-. J. Hodgson. No. 940,529; Nov. 16; Sp. p. 4628; Gaz. vol. 148; p. 772.
- Car-window. E. A. Hattinger. No. 925,091; June 15; Sp. p. 4262; Gaz. vol. 143; p. 726.
- Car-window. T. A. Legge. No. 942,701; Dec. 7; Sp. p. 513; Gaz. vol. 149; p. 80.
- Car-window cinder-guard, Railway-. C. W. Kennon. No. 922,290; May 18; Sp. p. 4510; Gaz. vol. 142; p. 783.
- Car-window-cleaning device. G. W. McKee. No. 932,051; Aug. 24; Sp. p. 5173; Gaz. vol. 145; p. 883.
- Car-window sash-lock. W. M. Peach. No. 917,119; Apr. 6; Sp. p. 314; Gaz. vol. 141; p. 57.
- Car-window ventilator. D. W. Snow. No. 940,946; Nov. 23; Sp. p. 5532; Gaz. vol. 148; p. 936.
- Car, Work-. J. Iliff. No. 929,440; July 27; Sp. p. 5674; Gaz. vol. 144; p. 996.
- Car, Wrecking-. J. W. Dasher. No. 933,631; Sept. 7; Sp. p. 1365; Gaz. vol. 146; p. 204.
- Cars and other motor-driven vehicles, Fender for electric. A. Flandes. No. 915,580; Mar. 16; Sp. p. 3969; Gaz. vol. 140; p. 685.
- Cars and other vehicles, Pedal-guard for motor-. A. J. Last. No. 913,406; Feb. 23; Sp. p. 4901; Gaz. vol. 139; p. 879.
- Cars and similar structures, Trap-door for railway-. E. F. Chaffee. No. 942,711; Dec. 7; Sp. p. 1400; Gaz. vol. 149; p. 230.
- Cars and similar structures, Trap-door for railway-. O. M. Edwards. No. 942,719; Dec. 7; Sp. p. 1421; Gaz. vol. 149; p. 233.
- Cars and the like, Spare wheel for motor-. F. R. Dennison. No. 932,969; Aug. 31; Sp. p. 7028; Gaz. vol. 145; p. 1208.
- Cars, &c., Antifriction-bearing for railway-. E. S. Woods. No. 912,519; Feb. 16; Sp. p. 3091; Gaz. vol. 139; p. 556.
- Cars, Automatic coupling and central buffer device for railway-. A. A. Rosengren. No. 921,564; May 11; Sp. p. 3010; Gaz. vol. 142; p. 517.
- Cars, Automatic locking and releasing device for mining-. J. H. Stroope. No. 925,247; June 15; Sp. p. 4556; Gaz. vol. 143; p. 779.
- Cars, Connecting-hose for railway-. E. Witzemann. No. 933,516; Sept. 7; Sp. p. 1152; Gaz. vol. 146; p. 166.
- Cars, Controller-checking device for street-railway-. N. Fallek. No. 920,300; May 4; Sp. p. 444; Gaz. vol. 142; p. 68.
- Cars, Cooling attachment for stock-. B. L. Stimmel. No. 929,725; Aug. 3; Sp. p. 186; Gaz. vol. 145; p. 32.
- Cars, Current-collector for electric. G. Mertens. No. 923,194; June 1; Sp. p. 154; Gaz. vol. 143; p. 26.
- Cars, Derailment-guard for railway-. R. J. Edwards. No. 943,665; Dec. 21; Sp. p. 3540; Gaz. vol. 149; p. 616.
- Cars, Device for resisting swinging movements of suspended railway-. F. W. Vogt. No. 919,268; Apr. 20; Sp. p. 4936; Gaz. vol. 141; p. 828.
- Cars, Drop-door fastening for. P. Fergusson and E. L. Wheland. No. 934,299; Sept. 14; Sp. p. 2690; Gaz. vol. 146; p. 447.
- Cars, Drop-door-operating mechanism for hopper-bottom. A. Becker. No. 934,269; Sept. 14; Sp. p. 2635; Gaz. vol. 146; p. 437.
- Cars, End-gate for mine-. F. C. Greene. No. 916,401; Mar. 23; Sp. p. 5557; Gaz. vol. 140; p. 984.
- Cars, Extension hanger-strap for street-. H. Murray. No. 928,141; July 13; Sp. p. 2961; Gaz. vol. 144; p. 506.
- Cars, Friction-brake to prevent side motion of. G. Hagberg. No. 912,121; Feb. 9; Sp. p. 2243; Gaz. vol. 139; p. 388.
- Cars, Friction-buffer and head-block for railway-. V. V. Moore. No. 930,779; Aug. 10; Sp. p. 2373; Gaz. vol. 145; p. 411.
- Cars from self-dumping mining-cages, Automatic device for releasing empty. F. Brasche and W. Doelz. No. 929,751; Aug. 3; Sp. p. 247; Gaz. vol. 145; p. 42.
- Cars, Grass-cutting attachment for. W. J. Clarke and S. A. Stream. No. 940,514; Nov. 16; Sp. p. 4602; Gaz. vol. 148; p. 768.
- Cars, &c., Life-guard or obstruction-remover for tram-. J. Bowring. No. 919,688; Apr. 27; Sp. p. 5859; Gaz. vol. 141; p. 1006.
- Cars, Lumber-roller for. E. L. Stocking. No. 939,452; Nov. 9; Sp. p. 2235; Gaz. vol. 148; p. 371.
- Cars, Means for closing the entrances to and exits from passenger-. J. W. McDillan. No. 915,207; Mar. 16; Sp. p. 3229; Gaz. vol. 140; p. 564.
- Cars or other vehicles, Antifriction-bearing for railway-. J. F. O'Connor. No. 909,108; Jan. 5; Sp. p. 1401; Gaz. vol. 138; p. 223.
- Cars or other vehicles, Bolster for. W. H. Miner. No. 926,432; June 29; Sp. p. 6986; Gaz. vol. 143; p. 1230.
- Cars or the like, Air-brake cylinder attachment to railway-. H. M. Pfleger. No. 917,891; Apr. 13; Sp. p. 1871; Gaz. vol. 141; p. 341.
- Cars or the like, System of precooling fruit-. A. Faget. No. 941,443; Nov. 30; Sp. p. 6624; Gaz. vol. 148; p. 1122.
- Cars, Passenger-controlled register for street-. O. Speckenbach. No. 941,108; Nov. 23; Sp. p. 5870; Gaz. vol. 148; p. 990.
- Cars, Post-seat for. J. D. Tharp. No. 921,310; May 11; Sp. p. 2490; Gaz. vol. 142; p. 432.
- Cars, Radiator suspension for motor-. G. Enrico. No. 939,961; Nov. 9; Sp. p. 3321; Gaz. vol. 148; p. 548.
- Cars, Rear guard for traction-. R. Dressmann. No. 944,082; Dec. 21; Sp. p. 4406; Gaz. vol. 149; p. 759.
- Cars, Rotary wheel-guard for. F. E. Hutchings. No. 920,467; May 4; Sp. p. 755; Gaz. vol. 142; p. 122.
- Cars, &c., Route or destination indicator for tram-. A. K. Baylor. No. 916,256; Mar. 23; Sp. p. 5281; Gaz. vol. 140; p. 934.
- Cars, Safety-vent for tank-. W. E. Sharp. No. 924,587; June 8; Sp. p. 3194; Gaz. vol. 143; p. 523.
- Cars, &c., Self-locking seal for. I. C. Reesor. No. 908,803; Jan. 5; Sp. p. 773; Gaz. vol. 138; p. 122.
- Cars, &c., Self-locking seal for. I. C. Reesor. No. 910,021; Jan. 19; Sp. p. 3203; Gaz. vol. 138; p. 591.
- Cars, Steam-pipe coupling for. J. E. Brodie. No. 930,933; Aug. 10; Sp. p. 2698; Gaz. vol. 145; p. 461.
- Cars, Steel underframe for railway-. G. B. Robbins and W. E. Sharp. No. 922,955; May 25; Sp. p. 5903; Gaz. vol. 142; p. 1029.
- Cars, Step-operated circuit-breaker for electric. B. B. Herron. No. 932,018; Aug. 24; Sp. p. 5095; Gaz. vol. 145; p. 871.
- Cars, Strengthening device for the ends of railway box-. G. L. Weiss. No. 943,497; Dec. 14; Sp. p. 3139; Gaz. vol. 149; p. 529.
- Cars, Supplemental wheel for motor-. A. E. Whitney. No. 936,750; Oct. 12; Sp. p. 2411; Gaz. vol. 147; p. 401.
- Cars, Tipple for coal-. W. L. Hansen and A. Hayes. No. 926,116; June 29; Sp. p. 6342; Gaz. vol. 143; p. 1126.
- Cars to the floor-level, Automatic device for bringing hydraulic-elevator. I. B. Ritter. No. 909,675; Jan. 12; Sp. p. 2499; Gaz. vol. 138; p. 444.
- Cars, Traveling ladder for sleeping-. S. M. Niblack. No. 938,016; Oct. 26; Sp. p. 5042; Gaz. vol. 147; p. 868.
- Cars, Trolley device for electric. W. A. Crawford-Frost. No. 918,287; Apr. 13; Sp. p. 2699; Gaz. vol. 141; p. 478.
- Cars, Wheel-locking attachment for tram-. K. W. Daughdrill. No. 917,553; Apr. 6; Sp. p. 1162; Gaz. vol. 141; p. 203.
- Carbid and manufacturing same. H. L. Hartenstein. No. 938,581; Nov. 2; Sp. p. 323; Gaz. vol. 148; p. 47.
- Carbid-feeding device. A. Davis. No. 928,853; July 20; Sp. p. 4440; Gaz. vol. 144; p. 774.
- Carbid, Manufacture of silicon. F. J. Tone. No. 913,324; Feb. 23; Sp. p. 4755; Gaz. vol. 139; p. 851.
- Carbid of calcium, Prepared. X. Hermé. No. 929,131; July 27; Sp. p. 5031; Gaz. vol. 144; p. 895.
- Carbid of calcium, Preparing. X. Hermé. No. 913,887; Mar. 2; Sp. p. 459; Gaz. vol. 140; p. 75.
- Carbid or carbid-containing electrodes, Making. H. S. Blackmore. No. 917,707; Apr. 6; Sp. p. 1449; Gaz. vol. 141; p. 254.
- Carbid, Treatment of. R. A. Frank. No. 920,857; May 4; Sp. p. 1549; Gaz. vol. 142; p. 250.
- Carbids, Producing. R. Catani. No. 918,419; Apr. 13; Sp. p. 2948; Gaz. vol. 141; p. 520.
- Carbon-black from peat, Obtaining. J. E. Smith. No. 916,049; Mar. 23; Sp. p. 4898; Gaz. vol. 140; p. 867.
- Carbon, filament, and making same. W. R. Whitney. No. 916,905; Mar. 30; Sp. p. 6552; Gaz. vol. 140; p. 1169.
- Carbons, Apparatus for forming perforated. M. W. Allen. No. 916,088; Mar. 23; Sp. p. 4972; Gaz. vol. 140; p. 880.
- Carbonating apparatus. E. Marek. No. 918,567; Apr. 20; Sp. p. 3274; Gaz. vol. 141; p. 596.
- Carbonating apparatus. C. L. Bastian. No. 932,093; Aug. 24; Sp. p. 5254; Gaz. vol. 145; p. 896.
- Carbonating liquids. J. Bienz. No. 943,060; Dec. 14; Sp. p. 2246; Gaz. vol. 149; p. 381.
- Carbonating-machine equalizer. S. H. Bither. No. 930,033; Aug. 3; Sp. p. 863; Gaz. vol. 145; p. 139.

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- Carbonator. L. M. Keeler. No. 930,189; Aug. 3; Sp. p. 1188; Gaz. vol. 145; p. 193.  
 Carbonator. L. W. Silberschmidt. No. 935,698; Oct. 5; Sp. p. 161; Gaz. vol. 147; p. 26.  
 Carboy. A. J. Miller. No. 939,286; Nov. 9; Sp. p. 1821; Gaz. vol. 148; p. 315.  
 Carboy-package. R. H. Gillean. No. 937,235; Oct. 19; Sp. p. 3410; Gaz. vol. 147; p. 590.  
 Carboy-protector. F. B. Lothrop. No. 939,283; Nov. 9; Sp. p. 1814; Gaz. vol. 148; p. 313.  
 Carbureted-air apparatus. E. B. Dennie. No. 933,064; Sept. 7; Sp. p. 52; Gaz. vol. 146; p. 9.  
 Carburetor. W. C. Westaway. No. 909,490; Jan. 12; Sp. p. 2139; Gaz. vol. 138; p. 379.  
 Carburetor. W. J. Keep. No. 910,207; Jan. 19; Sp. p. 3593; Gaz. vol. 138; p. 652.  
 Carburetor. W. Ottaway. No. 910,226; Jan. 19; Sp. p. 3633; Gaz. vol. 138; p. 660.  
 Carburetor. E. M. Stevenson. No. 910,326; Jan. 19; Sp. p. 3877; Gaz. vol. 138; p. 697.  
 Carburetor. C. O. Hedstrom. No. 910,379; Jan. 19; Sp. p. 3979; Gaz. vol. 138; p. 715.  
 Carburetor. A. J. Abel. No. 911,105; Feb. 2; Sp. p. 156; Gaz. vol. 139; p. 30.  
 Carburetor. F. H. Otis. No. 911,153; Feb. 2; Sp. p. 262; Gaz. vol. 139; p. 46.  
 Carburetor. A. Weiland. No. 911,349; Feb. 2; Sp. p. 638; Gaz. vol. 139; p. 109.  
 Carburetor. W. K. Andrew. No. 911,692; Feb. 9; Sp. p. 1336; Gaz. vol. 139; p. 248.  
 Carburetor. C. Fox. No. 911,967; Feb. 9; Sp. p. 1926; Gaz. vol. 139; p. 338.  
 Carburetor. W. Eckert. No. 912,998; Feb. 23; Sp. p. 4087; Gaz. vol. 139; p. 741.  
 Carburetor. W. Eckert. No. 912,999; Feb. 23; Sp. p. 4089; Gaz. vol. 139; p. 742.  
 Carburetor. P. Bertrand and J. Goubillon. No. 913,456; Feb. 23; Sp. p. 5013; Gaz. vol. 139; p. 895.  
 Carburetor. J. A. Stewart. No. 913,857; Mar. 2; Sp. p. 376; Gaz. vol. 140; p. 64.  
 Carburetor. W. F. Warstler. No. 915,132; Mar. 16; Sp. p. 3076; Gaz. vol. 140; p. 539.  
 Carburetor. J. N. Young. No. 915,647; Mar. 16; Sp. p. 4111; Gaz. vol. 140; p. 710.  
 Carburetor. N. Leinau. No. 915,684; Mar. 16; Sp. p. 4200; Gaz. vol. 140; p. 724.  
 Carburetor. R. L. Looby. No. 916,465; Mar. 30; Sp. p. 5712; Gaz. vol. 140; p. 1031.  
 Carburetor. B. N. Pierce. No. 917,125; Apr. 6; Sp. p. 341; Gaz. vol. 141; p. 60.  
 Carburetor. F. W. De Tray. No. 917,264; Apr. 6; Sp. p. 629; Gaz. vol. 141; p. 107.  
 Carburetor. C. B. Sturges. No. 918,607; Apr. 20; Sp. p. 3362; Gaz. vol. 141; p. 610.  
 Carburetor. J. W. Wood. No. 920,511; May 4; Sp. p. 846; Gaz. vol. 142; p. 137.  
 Carburetor. G. E. Morehouse. No. 920,979; May 11; Sp. p. 1803; Gaz. vol. 142; p. 320.  
 Carburetor. E. B. Kaley. No. 921,410; May 11; Sp. p. 2713; Gaz. vol. 142; p. 466.  
 Carburetor. A. Howarth. No. 922,145; May 18; Sp. p. 4212; Gaz. vol. 142; p. 736.  
 Carburetor. G. F. Schmidt. No. 923,377; June 1; Sp. p. 605; Gaz. vol. 143; p. 89.  
 Carburetor. A. C. Stewart. No. 924,200; June 8; Sp. p. 2426; Gaz. vol. 143; p. 395.  
 Carburetor. J. B. Knickerbocker. No. 924,673; June 15; Sp. p. 3401; Gaz. vol. 143; p. 585.  
 Carburetor. A. Winton and H. B. Anderson. No. 925,973; June 22; Sp. p. 6039; Gaz. vol. 143; p. 1043.  
 Carburetor. E. F. Warren. No. 926,039; June 22; Sp. p. 6171; Gaz. vol. 143; p. 1065.  
 Carburetor. A. Winton and H. B. Anderson. No. 926,533; June 29; Sp. p. 7153; Gaz. vol. 143; p. 1263.  
 Carburetor. W. L. Perry. No. 926,598; June 29; Sp. p. 7283; Gaz. vol. 143; p. 1286.  
 Carburetor. J. A. Carlson. No. 926,848; July 6; Sp. p. 303; Gaz. vol. 144; p. 49.  
 Carburetor. A. C. Bennett. No. 927,211; July 6; Sp. p. 1058; Gaz. vol. 144; p. 171.  
 Carburetor. N. T. Harrington. No. 927,529; July 13; Sp. p. 1700; Gaz. vol. 144; p. 303.  
 Carburetor. M. Laux. No. 927,558; July 13; Sp. p. 1748; Gaz. vol. 144; p. 312.  
 Carburetor. J. S. Goldberg. No. 928,042; July 13; Sp. p. 2786; Gaz. vol. 144; p. 475.  
 Carburetor. J. S. Goldberg. No. 928,121; July 13; Sp. p. 2921; Gaz. vol. 144; p. 499.  
 Carburetor. F. Svagell. No. 928,710; July 20; Sp. p. 4169; Gaz. vol. 144; p. 727.  
 Carburetor. A. Winton. No. 928,828; July 20; Sp. p. 4396; Gaz. vol. 144; p. 766.  
 Carburetor. G. F. Isgrig. No. 929,135; July 27; Sp. p. 5044; Gaz. vol. 144; p. 896.  
 Carburetor. J. W. Stevens. No. 929,260; July 27; Sp. p. 5301; Gaz. vol. 144; p. 937.  
 Carburetor. B. Rinke. No. 929,327; July 27; Sp. p. 5486; Gaz. vol. 144; p. 961.  
 Carburetor. F. L. Vaughan and J. R. McKenzie. No. 930,443; Aug. 10; Sp. p. 1652; Gaz. vol. 145; p. 299.  
 Carburetor. H. H. Boore. No. 930,724; Aug. 10; Sp. p. 2260; Gaz. vol. 145; p. 393.  
 Carburetor. M. D. Colbath. No. 931,386; Aug. 17; Sp. p. 3743; Gaz. vol. 145; p. 645.  
 Carburetor. F. J. Watt. No. 932,360; Aug. 24; Sp. p. 5765; Gaz. vol. 145; p. 984.  
 Carburetor. C. A. Haas. No. 932,465; Aug. 31; Sp. p. 5990; Gaz. vol. 145; p. 1042.  
 Carburetor. M. Laux. No. 932,478; Aug. 31; Sp. p. 6027; Gaz. vol. 145; p. 1046.  
 Carburetor. J. A. Kenworthy. No. 932,871; Aug. 31; Sp. p. 6851; Gaz. vol. 145; p. 1176.  
 Carburetor. M. Steel, Jr. No. 934,367; Sept. 14; Sp. p. 2814; Gaz. vol. 146; p. 469.  
 Carburetor. O. D. Munger. No. 934,981; Sept. 21; Sp. p. 4036; Gaz. vol. 146; p. 701.  
 Carburetor. W. K. Bassford. No. 935,833; Oct. 5; Sp. p. 501; Gaz. vol. 147; p. 71.  
 Carburetor. W. C. Westaway. No. 936,064; Oct. 5; Sp. p. 983; Gaz. vol. 147; p. 148.  
 Carburetor. G. T. Glover. No. 936,118; Oct. 5; Sp. p. 1087; Gaz. vol. 147; p. 166.  
 Carburetor. K. Maybach. No. 936,337; Oct. 12; Sp. p. 1519; Gaz. vol. 147; p. 262.  
 Carburetor. F. H. Knight. No. 937,536; Oct. 19; Sp. p. 4064; Gaz. vol. 147; p. 691.  
 Carburetor. M. F. Méville. No. 938,011; Oct. 26; Sp. p. 5031; Gaz. vol. 147; p. 866.  
 Carburetor. S. W. Rapp. No. 938,894; Nov. 2; Sp. p. 965; Gaz. vol. 148; p. 153.  
 Carburetor. E. A. Dickson. No. 939,481; Nov. 9; Sp. p. 2302; Gaz. vol. 148; p. 381.  
 Carburetor. R. Papanti. No. 939,856; Nov. 9; Sp. p. 3089; Gaz. vol. 148; p. 510.  
 Carburetor. J. R. Nye. No. 940,652; Nov. 16; Sp. p. 4885; Gaz. vol. 148; p. 813.  
 Carburetor. A. H. Warmley. No. 941,393; Nov. 30; Sp. p. 6511; Gaz. vol. 148; p. 1106.  
 Carburetor. J. H. Cooper. No. 941,406; Nov. 30; Sp. p. 6550; Gaz. vol. 148; p. 1111.  
 Carburetor. C. G. Leonard. No. 941,424; Nov. 30; Sp. p. 6585; Gaz. vol. 148; p. 1117.  
 Carburetor. T. W. L. McGuire and L. Hammick. No. 942,181; Dec. 7; Sp. p. 332; Gaz. vol. 149; p. 51.  
 Carburetor. J. C. Simonsen. No. 942,977; Dec. 14; Sp. p. 2029; Gaz. vol. 149; p. 352.  
 Carburetor. H. A. Miller. No. 943,197; Dec. 14; Sp. p. 2506; Gaz. vol. 149; p. 425.  
 Carburetor. D. Fergusson and C. L. Sheppy. No. 943,242; Dec. 14; Sp. p. 2603; Gaz. vol. 149; p. 441.  
 Carburetor. J. R. Price. No. 944,048; Dec. 21; Sp. p. 4334; Gaz. vol. 149; p. 747.  
 Carburetor. A. D. Elliott. No. 944,482; Dec. 28; Sp. p. 5258; Gaz. vol. 149; p. 920.  
 Carburetor. M. E. Hunter. No. 944,867; Dec. 28; Sp. p. 6123; Gaz. vol. 149; p. 1052.  
 Carburetor and like device for mixing gas or vapor and air. P. B. W. Kershaw. No. 930,483; Aug. 10; Sp. p. 1724; Gaz. vol. 145; p. 311.  
 Carburetor, Automatically-governed. O. Pfänder. No. 920,642; May 4; Sp. p. 1107; Gaz. vol. 142; p. 180.  
 Carburetor-controller. A. C. Stewart. No. 916,214; Mar. 23; Sp. p. 5197; Gaz. vol. 140; p. 920.  
 Carburetor for explosive-motors. G. W. Slaughter, Jr. No. 913,313; Feb. 23; Sp. p. 4726; Gaz. vol. 139; p. 847.  
 Carburetor for hydrocarbon-engines. S. R. Jacobs. No. 942,503; Dec. 7; Sp. p. 1003; Gaz. vol. 149; p. 161.  
 Carburetor for internal-combustion engines. W. A. Daley. No. 912,083; Feb. 9; Sp. p. 2171; Gaz. vol. 139; p. 376.  
 Carburetor for internal-combustion engines. H. Z. White. No. 920,231; May 4; Sp. p. 281; Gaz. vol. 142; p. 45.  
 Carburetor for internal-combustion engines. P. J. Grouvelle and E. H. Arquembourg. No. 932,860; Aug. 31; Sp. p. 6833; Gaz. vol. 145; p. 1172.  
 Carburetor jacket or casing. M. W. Hanks. No. 930,596; Aug. 10; Sp. p. 2007; Gaz. vol. 145; p. 352.  
 Carbureters, Reed air-intake regulator for. F. C. Reineking. No. 939,549; Nov. 9; Sp. p. 2434; Gaz. vol. 148; p. 404.  
 Carbureters, Reed air-intake regulator for. F. C. Reineking. No. 943,996; Dec. 21; Sp. p. 4237; Gaz. vol. 149; p. 730.  
 Carbureting-apparatus oil-feed. A. Grandjean. No. 912,468; Feb. 16; Sp. p. 2976; Gaz. vol. 139; p. 539.  
 Carcass-handling apparatus. W. B. Farris. No. 931,744; Aug. 24; Sp. p. 4489; Gaz. vol. 145; p. 782.  
 Carcass-splitting machine. W. B. Wallwork. No. 910,614; Jan. 26; Sp. p. 4488; Gaz. vol. 138; p. 818.  
 Card and calendar. Score. F. J. Kristofek. No. 916,564; Mar. 30; Sp. p. 5923; Gaz. vol. 140; p. 1063.  
 Card and picture holder. J. A. Cope. No. 942,713; Dec. 7; Sp. p. 1408; Gaz. vol. 149; p. 231.  
 Card-attaching device. F. E. Morrill. No. 936,145; Oct. 5; Sp. p. 1152; Gaz. vol. 147; p. 175.  
 Card attachment. J. E. Ralph. No. 941,273; Nov. 23; Sp. p. 6246; Gaz. vol. 148; p. 1046.  
 Card-case. C. F. Brown. No. 921,076; May 11; Sp. p. 2011; Gaz. vol. 142; p. 354.  
 Card-case. J. C. A. Fitch, Jr. No. 937,584; Oct. 19; Sp. p. 4154; Gaz. vol. 147; p. 707.  
 Card-case. G. Jenner. No. 943,553; Dec. 14; Sp. p. 3255; Gaz. vol. 149; p. 548.  
 Card-case or pocket-book. M. W. Cummings and J. F. Jordan. No. 939,673; Nov. 9; Sp. p. 2713; Gaz. vol. 148; p. 448.  
 Card-clothing. E. V. Bates and R. B. Robinson. No. 922,448; May 25; Sp. p. 4838; Gaz. vol. 142; p. 864.



*Alphabetical list of inventions—Continued.*

- Card-clothing. J. J. Gillet. No. 944,031; Dec. 21; Sp. p. 4304; Gaz. vol. 149; p. 742.
- Card-clothing, Apparatus for making. A. F. Estabrook and G. O. Carrier. No. 937,058; Oct. 19; Sp. p. 3029; Gaz. vol. 147; p. 532.
- Card counting and stacking machine. C. E. Sargent and R. B. Peebles. No. 927,080; July 6; Sp. p. 804; Gaz. vol. 144; p. 128.
- Card cutter and marker. G. C. Anderson. No. 918,412; Apr. 13; Sp. p. 2934; Gaz. vol. 141; p. 517.
- Card, Electrically-operated price-. P. L. Dirking. No. 926,393; June 29; Sp. p. 6910; Gaz. vol. 143; p. 1216.
- Card-exhibiting device. A. J. Thomas. No. 932,830; Aug. 31; Sp. p. 6780; Gaz. vol. 145; p. 1163.
- Card-exhibitor. F. J. Kilmer and F. A. Henning. No. 936,277; Oct. 5; Sp. p. 1391; Gaz. vol. 147; p. 216.
- Card-fillet tightener. A. A. Cole. No. 936,218; Oct. 5; Sp. p. 1280; Gaz. vol. 147; p. 195.
- Card-follower. E. C. Holland. No. 912,571; Feb. 16; Sp. p. 3207; Gaz. vol. 139; p. 575.
- Card, Guide-. R. M. Vick. No. 943,720; Dec. 21; Sp. p. 3652; Gaz. vol. 149; p. 634.
- Card-holder. W. F. Clay. No. 925,683; June 22; Sp. p. 5408; Gaz. vol. 143; p. 947.
- Card-holder. B. Rensch. No. 929,016; July 27; Sp. p. 4792; Gaz. vol. 144; p. 856.
- Card-holder. O. A. Bremer. No. 936,756; Oct. 12; Sp. p. 2419; Gaz. vol. 147; p. 403.
- Card holder, Illustrated-post-. E. O. Williams. No. 909,497; Jan. 12; Sp. p. 2151; Gaz. vol. 138; p. 381.
- Card holder, Postal-. O. W. Short. No. 917,170; Apr. 6; Sp. p. 424; Gaz. vol. 141; p. 74.
- Card-holding stand, Revolving. E. C. Douglas. No. 911,385; Feb. 2; Sp. p. 704; Gaz. vol. 139; p. 121.
- Card or paper holder. W. H. Berne. No. 911,287; Feb. 2; Sp. p. 527; Gaz. vol. 139; p. 90.
- Card, Pictorial post-. K. Münster. No. 916,475; Mar. 30; Sp. p. 5729; Gaz. vol. 140; p. 1034.
- Card-punching machines, Protective device for jacquard-. J. A. Groebli. No. 924,610; June 8; Sp. p. 3257; Gaz. vol. 143; p. 531.
- Card-rack. E. O. Williams. No. 909,498; Jan. 12; Sp. p. 2153; Gaz. vol. 138; p. 382.
- Card, Record-. J. MacLagan. No. 912,969; Feb. 16; Sp. p. 4020; Gaz. vol. 139; p. 705.
- Card-record card. W. C. Martineau. No. 930,488; Aug. 10; Sp. p. 1736; Gaz. vol. 145; p. 313.
- Card, Sample-. J. G. Cohen and F. X. Walsh. No. 913,262; Feb. 23; Sp. p. 4622; Gaz. vol. 139; p. 829.
- Card-table. F. E. Faulkner. No. 919,708; Apr. 27; Sp. p. 5896; Gaz. vol. 141; p. 1012.
- Card-table. M. B. Samuel. No. 940,283; Nov. 16; Sp. p. 4070; Gaz. vol. 148; p. 690.
- Card-take-up mechanism, Jacquard-. J. A. Groebli. No. 911,236; Feb. 2; Sp. p. 427; Gaz. vol. 139; p. 73.
- Card wire, Jacquard-. W. Cochran. No. 919,321; Apr. 27; Sp. p. 5070; Gaz. vol. 141; p. 880.
- Cards and the like, Mounting-pocket for. W. Schaaake. No. 933,117; Sept. 7; Sp. p. 165; Gaz. vol. 146; p. 28.
- Cards, Apparatus for removing burs on worsted-. W. and E. Prestwick. No. 924,379; June 8; Sp. p. 2804; Gaz. vol. 143; p. 456.
- Cards, Device for facilitating the dealing of. G. H. Rives. No. 922,954; May 25; Sp. p. 5902; Gaz. vol. 142; p. 1028.
- Cards, Electrical pattern for the manufacture of jacquard-. P. Weissenborn. No. 933,805; Sept. 14; Sp. p. 1712; Gaz. vol. 146; p. 284.
- Cards, &c., Packaging playing-. W. H. Dougherty. No. 911,647; Feb. 9; Sp. p. 1247; Gaz. vol. 139; p. 234.
- Cards, Playing-. F. D. Windell. No. 922,370; May 18; Sp. p. 4663; Gaz. vol. 142; p. 809.
- Cards, Playing-. S. A. Cohen. No. 927,119; July 6; Sp. p. 882; Gaz. vol. 144; p. 142.
- Cards, Playing-. W. T. Eddins. No. 928,511; July 20; Sp. p. 3760; Gaz. vol. 144; p. 660.
- Cards, Playing-. A. H. Wheeler. No. 931,977; Aug. 24; Sp. p. 5003; Gaz. vol. 145; p. 857.
- Cardboard-creasing machine. E. W. Bonfield and J. E. Fellows. No. 944,536; Dec. 28; Sp. p. 5402; Gaz. vol. 149; p. 940.
- Carding-engine. E. Gessner. No. 920,862; May 4; Sp. p. 1557; Gaz. vol. 142; p. 251.
- Carding-engine. E. Ashworth. No. 944,168; Dec. 21; Sp. p. 4588; Gaz. vol. 149; p. 787.
- Carding-engine and like machine. W. L. Holland. No. 927,242; July 6; Sp. p. 1120; Gaz. vol. 144; p. 182.
- Carding-machine. W. Barber. No. 923,003; May 25; Sp. p. 5979; Gaz. vol. 142; p. 1043.
- Carding-machine alarm. E. P. Schmitt. No. 939,750; Nov. 9; Sp. p. 2876; Gaz. vol. 148; p. 474.
- Caretaker, Coin-freed. P. Funke. No. 918,663; Apr. 20; Sp. p. 3538; Gaz. vol. 141; p. 630.
- Carline. J. J. Hoffman. No. 942,258; Dec. 7; Sp. p. 493; Gaz. vol. 149; p. 76.
- Carline-reinforcing construction. F. L. Irwin. No. 913,141; Feb. 23; Sp. p. 4372; Gaz. vol. 139; p. 790.
- Carousel. I. D. Patterson. No. 921,153; May 11; Sp. p. 2152; Gaz. vol. 142; p. 379.
- Carousel. E. T. Vangezell. No. 925,402; June 15; Sp. p. 4832; Gaz. vol. 143; p. 826.
- Carousel. A. J. Smith. No. 938,283; Oct. 26; Sp. p. 5607; Gaz. vol. 147; p. 959.
- Carousel or merry-go-round. R. W. Steen. No. 923,087; May 25; Sp. p. 6166; Gaz. vol. 142; p. 1070.
- Carousel power mechanism. H. B. Auchy. No. 937,750; Oct. 26; Sp. p. 4482; Gaz. vol. 147; p. 778.
- Carpenter's bench-stop. D. F. Larkin. No. 933,081; Sept. 7; Sp. p. 90; Gaz. vol. 146; p. 15.
- Carpenter's gage. J. Filkin. No. 920,941; May 11; Sp. p. 1737; Gaz. vol. 142; p. 308.
- Carpenter's gage. U. S. Manges. No. 933,655; Sept. 7; Sp. p. 1405; Gaz. vol. 146; p. 211.
- Carpenter's implement. N. P. Crammer. No. 918,130; Apr. 13; Sp. p. 2379; Gaz. vol. 141; p. 426.
- Carpenter's tool. G. W. Hodgins. No. 924,660; June 15; Sp. p. 3367; Gaz. vol. 143; p. 581.
- Carpenter's tool. O. Kolstad. No. 935,368; Sept. 28; Sp. p. 4818; Gaz. vol. 146; p. 852.
- Carpet and linoleum stretcher. G. E. Nordgren and J. Y. Jones, Jr. No. 913,545; Feb. 23; Sp. p. 5194; Gaz. vol. 139; p. 925.
- Carpet and matting holder, Adjustable. G. E. Jackson. No. 928,607; July 20; Sp. p. 3970; Gaz. vol. 144; p. 693.
- Carpet-beater. A. F. Mewes. No. 911,831; Feb. 9; Sp. p. 1579; Gaz. vol. 139; p. 293.
- Carpet-beater. E. G. Oszman. No. 919,754; Apr. 27; Sp. p. 5979; Gaz. vol. 141; p. 1027.
- Carpet-cleaner, Sanitary. A. J. Meier. No. 935,919; Oct. 5; Sp. p. 685; Gaz. vol. 147; p. 100.
- Carpet-cleaning machine. J. Dudley. No. 924,542; June 8; Sp. p. 3115; Gaz. vol. 143; p. 508.
- Carpet-end-binder, Aisle-. E. Posson. No. 938,170; Oct. 26; Sp. p. 5389; Gaz. vol. 147; p. 920.
- Carpet fastener, Roll-. W. L. White and F. W. Chickering. No. 923,468; June 1; Sp. p. 798; Gaz. vol. 143; p. 119.
- Carpet fastener, Stair-. W. A. Price. No. 936,940; Oct. 12; Sp. p. 2775; Gaz. vol. 147; p. 464.
- Carpet fastener, Stair-. C. W. Kirsch. No. 939,601; Nov. 9; Sp. p. 2564; Gaz. vol. 148; p. 421.
- Carpet fastener, Stair-. W. W. Hesson. No. 942,641; Dec. 7; Sp. p. 1271; Gaz. vol. 149; p. 208.
- Carpet-fasteners, Tool for detaching. W. H. Boles. No. 939,207; Nov. 9; Sp. p. 1629; Gaz. vol. 148; p. 288.
- Carpet-lining, Protective. L. H. Koll. No. 918,331; Apr. 13; Sp. p. 2776; Gaz. vol. 141; p. 492.
- Carpet-molding. H. B. Rodgers and M. Schwartz. No. 938,077; Oct. 26; Sp. p. 5187; Gaz. vol. 147; p. 888.
- Carpet-rug beater. A. F. Mewis. No. 920,772; May 4; Sp. p. 1368; Gaz. vol. 142; p. 222.
- Carpet-seams, Machine for removing nap from. S. Zwald. No. 943,613; Dec. 14; Sp. p. 3405; Gaz. vol. 149; p. 569.
- Carpet-securing means. M. A. V. Odell. No. 936,347; Oct. 12; Sp. p. 1544; Gaz. vol. 147; p. 265.
- Carpet-stretcher. W. Fagan. No. 909,072; Jan. 5; Sp. p. 1309; Gaz. vol. 138; p. 210.
- Carpet-stretcher. M. A. Smith. No. 910,595; Jan. 26; Sp. p. 4454; Gaz. vol. 138; p. 812.
- Carpet-stretcher. G. M. Seipel and C. Grieshaber. No. 911,179; Feb. 2; Sp. p. 303; Gaz. vol. 139; p. 54.
- Carpet-stretcher. G. L. Noll. No. 943,199; Dec. 14; Sp. p. 2511; Gaz. vol. 149; p. 426.
- Carpet-sweeper. O. R. Chaplin. No. 909,366; Jan. 12; Sp. p. 1893; Gaz. vol. 138; p. 339.
- Carpet-sweeper. F. C. Mason. No. 914,438; Mar. 9; Sp. p. 1662; Gaz. vol. 140; p. 284.
- Carpet-sweeper. L. P. Halladay. No. 917,054; Apr. 6; Sp. p. 190; Gaz. vol. 141; p. 35.
- Carpet-sweeper. C. A. Smith. No. 919,479; Apr. 27; Sp. p. 5427; Gaz. vol. 141; p. 934.
- Carpet-sweeper. F. Goeringer. No. 924,342; June 8; Sp. p. 2723; Gaz. vol. 143; p. 443.
- Carpet-sweeper. G. B. Deacon. No. 933,893; Sept. 14; Sp. p. 1806; Gaz. vol. 146; p. 313.
- Carpet sweeper and cleaner. J. M. Spangler. No. 935,558; Sept. 28; Sp. p. 5213; Gaz. vol. 146; p. 915.
- Carpet sweeper and cleaner. J. M. Spangler. No. 935,559; Sept. 28; Sp. p. 5215; Gaz. vol. 146; p. 915.
- Carpet-sweeper brushes, Device for cleaning. F. W. Myers. No. 939,290; Nov. 9; Sp. p. 1835; Gaz. vol. 148; p. 316.
- Carpets and the like, Edge-retainer for. E. H. Smart. No. 944,698; Dec. 28; Sp. p. 5748; Gaz. vol. 149; p. 995.
- Carriage. F. W. Zingsheim. No. 930,716; Aug. 10; Sp. p. 2243; Gaz. vol. 145; p. 390.
- Carriage and cradle, Convertible. H. Wilchinsky. No. 913,082; Feb. 23; Sp. p. 4245; Gaz. vol. 139; p. 769.
- Carriage and sleigh, Convertible baby. A. J. Adams. No. 925,151; June 15; Sp. p. 4379; Gaz. vol. 143; p. 747.
- Carriage and wagon checking attachment. W. F. Young. No. 940,771; Nov. 23; Sp. p. 5175; Gaz. vol. 148; p. 879.
- Carriage, Automatic baby-. J. Zajac. No. 915,149; Mar. 16; Sp. p. 3103; Gaz. vol. 140; p. 545.
- Carriage, Baby-. C. F. Thayer. No. 913,071; Feb. 23; Sp. p. 4228; Gaz. vol. 139; p. 765.
- Carriage, Baby-. C. F. Thayer. No. 914,010; Mar. 2; Sp. p. 777; Gaz. vol. 140; p. 119.
- Carriage-body. J. C. Moon. No. 913,534; Feb. 23; Sp. p. 5168; Gaz. vol. 139; p. 921.
- Carriage-body. S. A. Moore. No. 913,537; Feb. 23; Sp. p. 5173; Gaz. vol. 139; p. 922.
- Carriage, Child's folding. C. H. Smith. No. 924,008; June 8; Sp. p. 1997; Gaz. vol. 143; p. 331.
- Carriage, Collapsible or folding. R. Fleischmann. No. 913,487; Feb. 23; Sp. p. 5064; Gaz. vol. 139; p. 905.
- Carriage-curtain fastener. F. S. Carr. No. 942,612; Dec. 7; Sp. p. 1211; Gaz. vol. 149; p. 198.
- Carriage-curtain knobs, Making. F. A. Neider and W. Hafer. No. 921,147; May 11; Sp. p. 2145; Gaz. vol. 142; p. 377.
- Carriage-drive. J. J. Sullivan. No. 919,793; Apr. 27; Sp. p. 6052; Gaz. vol. 141; p. 1041.
- Carriage, Folding. A. J. Adams. No. 913,345; Feb. 23; Sp. p. 4786; Gaz. vol. 139; p. 857.

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- Carriage, Folding. A. W. Loshbough. No. 927,567; July 13; Sp. p. 1764; Gaz. vol. 144; p. 315.  
 Carriage, Folding baby-. W. G. Nash. No. 910,304; Jan. 19; Sp. p. 3827; Gaz. vol. 138; p. 689.  
 Carriage, Folding baby-. A. Kaufmann and A. Goldenberg. No. 919,880; Apr. 27; Sp. p. 6269; Gaz. vol. 141; p. 1069.  
 Carriage, Folding baby-. A. W. Loshbough. No. 941,374; Nov. 30; Sp. p. 6456; Gaz. vol. 145; p. 1099.  
 Carriage foot-brake. C. Strohkorb. No. 943,104; Dec. 14; Sp. p. 2330; Gaz. vol. 149; p. 395.  
 Carriage hood attachment, Child's. D. R. Collier. No. 914,114; Mar. 2; Sp. p. 981; Gaz. vol. 140; p. 155.  
 Carriage indicator, Motor-. A. M. Hudson. No. 910,287; Jan. 19; Sp. p. 3796; Gaz. vol. 138; p. 684.  
 Carriage or perambulator, Baby-. A. J. Adams. No. 925,152; June 15; Sp. p. 4380; Gaz. vol. 143; p. 747.  
 Carriage storm-hood, Baby-. B. W. Grover. No. 916,439; Mar. 30; Sp. p. 5639; Gaz. vol. 140; p. 1021.  
 Carriage-thill. W. H. Cooley and H. E. Marks. No. 914,555; Mar. 9; Sp. p. 1898; Gaz. vol. 140; p. 323.  
 Carriage-top. W. Woop. No. 933,933; Nov. 2; Sp. p. 1062; Gaz. vol. 148; p. 168.  
 Carriage-top attachment. P. Felix. No. 921,530; May 11; Sp. p. 2945; Gaz. vol. 142; p. 506.  
 Carriage-top support. E. Jordalen. No. 935,369; Sept. 28; Sp. p. 4820; Gaz. vol. 146; p. 852.  
 Carriage-top valance. I. O. and H. N. Bauer. No. 916,526; Mar. 30; Sp. p. 5851; Gaz. vol. 140; p. 1050.  
 Carriages, Sleigh-runner attachment for baby-. F. C. Kengeter. No. 934,735; Sept. 21; Sp. p. 3541; Gaz. vol. 146; p. 617.  
 Carrier. See Automatic carrier; Automobile disappearing luggage-carrier; Bag or can carrier; Baggage-carrier; Ball-carrier; Banana-carrier; Belt-carrier; Binder sheaf-carrier; Bottle-carrier; Box-carrier; Bundle-carrier; Canvas carrier; Cash-carrier; Casket-carrier; Cuspidor-carrier; Dish-carrier; Draw-bar carrier; Egg-carrier; Egg carton or carrier; Elevated carrier; Endless carrier; Feed and litter carrier; Filling-carrier; Film-frame carrier; Fire-hose carrier; Fruit-carrier; Game-element carrier; Garment-carrier; Gun-carrier; Hay-carrier; Ladle-carrier; Lens-carrier; Letter-carrier; Light-sensitive layer-carrier; Litter-carrier; Luggage-carrier; Mail-carrier; Manure-carrier; Oyster-carrier; Paper-roll carrier; Pattern-carrier; Pipe or rod carrier; Radiator-carrier; Rail-carrier; Rope carrier; Sack-carrier; Saw-carrier; Shade-carrier; Sheaf-carrier; Shingle-carrier; Shock-carrier; Skip or load carrier; Spittoon-carrier; Stereopticon-slide carrier; Target-trap carrier; Thresher-feeder carrier; Trace-carrier; Tub-carrier; Vulcanizer-carrier.  
 Carrier. W. G. Beatty. No. 911,284; Feb. 2; Sp. p. 520; Gaz. vol. 139; p. 89.  
 Carrier. W. Seegers. No. 914,607; Mar. 9; Sp. p. 1999; Gaz. vol. 140; p. 341.  
 Carrier. L. B. Larsen. No. 926,264; June 29; Sp. p. 6661; Gaz. vol. 143; p. 1176.  
 Carrier. C. B. Willenborg. No. 940,768; Nov. 23; Sp. p. 5170; Gaz. vol. 148; p. 878.  
 Carrier system. A. Swahn. No. 926,302; June 29; Sp. p. 6732; Gaz. vol. 143; p. 1187.  
 Carrier systems, Transfer mechanism for. W. Aab. No. 933,354; Sept. 7; Sp. p. 720; Gaz. vol. 146; p. 112.  
 Carriers, Automatic dumping device for elevated. T. O. Werner. No. 940,760; Nov. 23; Sp. p. 5141; Gaz. vol. 148; p. 875.  
 Carriers, Direct-movement lock and trip mechanism for. W. Gutenkunst. No. 931,859; Aug. 24; Sp. p. 4728; Gaz. vol. 145; p. 818.  
 Carriers, Mechanism for regulating the speed between traveling. B. Manischewitz. No. 930,673; Aug. 10; Sp. p. 2157; Gaz. vol. 145; p. 977.  
 Carrying and pressing apparatus. C. S. Wheelwright. No. 939,576; Nov. 9; Sp. p. 2490; Gaz. vol. 148; p. 413.  
 Carrying mechanism. R. Rein. No. 936,942; Oct. 12; Sp. p. 2777; Gaz. vol. 147; p. 464.  
 Cart. T. E. Daly. No. 911,212; Feb. 2; Sp. p. 372; Gaz. vol. 139; p. 65.  
 Cart. J. J. Devine. No. 943,064; Dec. 14; Sp. p. 2254; Gaz. vol. 149; p. 382.  
 Cart and wagon bodies, Wear-strip for. J. T. Hamilton. No. 938,230; Oct. 26; Sp. p. 5512; Gaz. vol. 147; p. 942.  
 Cart, Barrel-. P. C. Jorgenson. No. 910,204; Jan. 19; Sp. p. 3588; Gaz. vol. 138; p. 651.  
 Cart, Combination-. O. and M. Helgeson. No. 909,297; Jan. 12; Sp. p. 1765; Gaz. vol. 138; p. 317.  
 Cart, Dump-. L. H. and A. Young. No. 938,198; Oct. 26; Sp. p. 5448; Gaz. vol. 147; p. 930.  
 Cart, Folding. F. G. Lyons. No. 908,472; Jan. 5; Sp. p. 77; Gaz. vol. 138; p. 15.  
 Cart for distributing concrete, &c. N. F. Ambursen. No. 932,746; Aug. 31; Sp. p. 6596; Gaz. vol. 145; p. 1137.  
 Cart, Hopper-bottom. B. W. Parker. No. 934,831; Sept. 21; Sp. p. 3732; Gaz. vol. 146; p. 648.  
 Cart, Lumber-. G. Streich. No. 937,657; Oct. 19; Sp. p. 4274; Gaz. vol. 147; p. 730.  
 Cart, Pick-up. P. C. Jorgenson. No. 910,205; Jan. 19; Sp. p. 3590; Gaz. vol. 138; p. 652.  
 Carton. N. J. Goodman. No. 924,761; June 15; Sp. p. 3587; Gaz. vol. 143; p. 616.  
 Carton. G. Mortson. No. 931,074; Aug. 17; Sp. p. 3063; Gaz. vol. 145; p. 537.  
 Carton. G. W. Teasdale. No. 933,599; Sept. 7; Sp. p. 1303; Gaz. vol. 146; p. 193.  
 Carton. G. W. Teasdale. No. 938,799; Nov. 2; Sp. p. 743; Gaz. vol. 148; p. 121.  
 Carton. A. L. Smith. No. 944,467; Dec. 28; Sp. p. 5232; Gaz. vol. 149; p. 916.  
 Carton, Cell-. J. H. Carter. No. 927,488; July 13; Sp. p. 1609; Gaz. vol. 144; p. 289.  
 Carton closing and sealing mechanism. W. S. Scales. No. 930,090; Aug. 3; Sp. p. 983; Gaz. vol. 145; p. 159.  
 Carton, Collapsible. L. P. Brown. No. 930,835; Aug. 10; Sp. p. 2486; Gaz. vol. 145; p. 430.  
 Carton, Egg-. R. M. Odell. No. 931,637; Aug. 17; Sp. p. 4206; Gaz. vol. 145; p. 722.  
 Carton-filling machine. J. B. Fallon, Jr. No. 908,457; Jan. 5; Sp. p. 47; Gaz. vol. 138; p. 10.  
 Carton, Folding. J. W. Galvin and G. Walters. No. 934,602; Sept. 21; Sp. p. 3280; Gaz. vol. 146; p. 571.  
 Carton-making machine. S. M. Langston. No. 929,450; July 27; Sp. p. 5689; Gaz. vol. 144; p. 909.  
 Carton or box. G. A. Pfeiffer. No. 937,173; Oct. 19; Sp. p. 3277; Gaz. vol. 147; p. 571.  
 Carton or package. W. I. Fell. No. 925,572; June 22; Sp. p. 5175; Gaz. vol. 143; p. 912.  
 Cartridge. A. Wratzke. No. 911,796; Feb. 9; Sp. p. 1511; Gaz. vol. 139; p. 282.  
 Cartridge and game belt. W. A. Wiley. No. 942,390; Dec. 7; Sp. p. 742; Gaz. vol. 149; p. 121.  
 Cartridge base-wads, liners, and tubes, Machine for assembling. H. D. Hodge. No. 937,605; Oct. 19; Sp. p. 4188; Gaz. vol. 147; p. 713.  
 Cartridge belt or bandoleer. F. R. Batchelder. No. 920,413; May 4; Sp. p. 658; Gaz. vol. 142; p. 104.  
 Cartridge, Blasting-. G. Wolsey and L. Fussey. No. 939,886; Nov. 9; Sp. p. 3153; Gaz. vol. 148; p. 520.  
 Cartridge-charging apparatus. O. Bengtsson. No. 934,787; Sept. 21; Sp. p. 3649; Gaz. vol. 146; p. 634.  
 Cartridge extracting and loading device. A. Bengtson. No. 912,643; Feb. 16; Sp. p. 3344; Gaz. vol. 139; p. 600.  
 Cartridge for mining purposes. E. and S. Purcell. No. 910,722; Jan. 26; Sp. p. 4683; Gaz. vol. 138; p. 851.  
 Cartridge having multipart projectiles. G. Luger. No. 926,431; June 29; Sp. p. 6984; Gaz. vol. 143; p. 1230.  
 Cartridge-holder. E. E. Neal. No. 923,068; May 25; Sp. p. 6137; Gaz. vol. 142; p. 1064.  
 Cartridge, Loaded. G. Meadows. No. 929,866; Aug. 3; Sp. p. 514; Gaz. vol. 145; p. 83.  
 Cartridge-loader, Safety. A. D. Otto. No. 917,649; Apr. 6; Sp. p. 1337; Gaz. vol. 141; p. 236.  
 Cartridge-magazine pocket for self-loading rifles. L. F. Kennedy. No. 931,766; Aug. 24; Sp. p. 4544; Gaz. vol. 145; p. 789.  
 Cartridge-making machine. H. D. Hodge. No. 937,604; Oct. 19; Sp. p. 4185; Gaz. vol. 147; p. 713.  
 Cartridge-pocket. W. C. Fisher. No. 918,837; Apr. 20; Sp. p. 3902; Gaz. vol. 141; p. 688.  
 Cartridge-shell. L. A. Sherman. No. 937,188; Oct. 19; Sp. p. 3307; Gaz. vol. 147; p. 575.  
 Cartridge-shell machine. S. Rousseau. No. 919,247; Apr. 20; Sp. p. 4986; Gaz. vol. 141; p. 821.  
 Cartridge-shells, Manufacturing. L. E. Hooker. No. 922,585; May 25; Sp. p. 5118; Gaz. vol. 142; p. 908.  
 Cartridge-shells, Means for feeding. H. D. Hodge. No. 935,367; Sept. 28; Sp. p. 4816; Gaz. vol. 146; p. 852.  
 Carving-board. W. E. Bullard. No. 943,767; Dec. 21; Sp. p. 3736; Gaz. vol. 149; p. 650.  
 Carving-fork. F. H. Branshaw. No. 929,190; July 27; Sp. p. 5159; Gaz. vol. 144; p. 915.  
 Carving-machine. M. A. Cumming. No. 908,844; Jan. 5; Sp. p. 858; Gaz. vol. 138; p. 135.  
 Carving-machine. J. Schmitt and C. L. Ruehs. No. 910,422; Jan. 19; Sp. p. 4070; Gaz. vol. 138; p. 729.  
 Carving-machine. F. H. Richards. No. 914,676; Mar. 9; Sp. p. 2159; Gaz. vol. 140; p. 362.  
 Carving-machine. F. H. Richards. No. 919,769; Apr. 27; Sp. p. 6002; Gaz. vol. 141; p. 1032.  
 Carving-machine. F. H. Richards. No. 922,513; May 25; Sp. p. 4968; Gaz. vol. 142; p. 884.  
 Carving-machine work-holder. H. C. Baase. No. 921,058; May 11; Sp. p. 1954; Gaz. vol. 142; p. 347.  
 Carving-machines, Feed mechanism for automatic. M. de Tamble. No. 921,091; May 11; Sp. p. 2039; Gaz. vol. 142; p. 359.  
 Case. See Annunciator-case; Bag-case; Banana-shipping case; Bobbin-case; Bolt-case; Bookcase; Book and filing case; Bottle-case; Burial-case; Car packing case; Card-case; Cigarette-case; Clock-case; Clothing-case; Compartment-case; Display-case; Display and packing case; Display or show case; Egg-case; Engine crank-case; Extensible case; Eyeglass-case; File-case; Filing-case; Fishing-case; Fuse-case; Gear-case; Index-case; Instrument-case; Knockdown case; Mail-delivery case; Match-case; Mechanic's case; Organ-case; Packing case; Packing and display case; Pencil-case; Phonograph-record case; Piano-case; Poultice-case; Razor-case; Sample-case; Shaving-appliance case; Shelf or case; Shipping-case; Shot-case; Show-case; Suit-case; Syringe-case; Thermometer-case; Ticket-case; Ticket and card case; Tire-case; Toilet-case; Tooth-brush case; Traveling-case; Tumbler-case; Type-writer case; Watchcase; Whip, &c., case.  
 Case-lock. E. S. Royer. No. 918,374; Apr. 13; Sp. p. 2857; Gaz. vol. 141; p. 506.  
 Case or box. F. J. Krementz. No. 927,250; July 6; Sp. p. 1135; Gaz. vol. 144; p. 185.  
 Case or cabinet having sliding doors. C. F. Kurz. No. 920,158; May 4; Sp. p. 129; Gaz. vol. 142; p. 20.  
 Casing. J. E. Gloekler. No. 932,856; Aug. 31; Sp. p. 6824; Gaz. vol. 145; p. 1171.  
 Casing and marking gage. W. A. Banfill. No. 924,877; June 15; Sp. p. 3831; Gaz. vol. 143; p. 654.  
 Casing clamp, Valve-. O. Sprecher. No. 910,024; Jan. 19; Sp. p. 3207; Gaz. vol. 138; p. 592.  
 Casing for balances and other instruments, Protecting-. W. and A. Heusser. No. 934,526; Sept. 21; Sp. p. 3128; Gaz. vol. 146; p. 545.  
 Casing for light-fixture stems. P. J. Handel. No. 909,405; Jan. 12; Sp. p. 1969; Gaz. vol. 138; p. 351.



*Alphabetical list of inventions—Continued.*

- Casing-head. C. A. Waitz. No. 910,885; Jan. 26; Sp. p. 5017; Gaz. vol. 138; p. 904.  
 Casing or pipe wrench. J. C. Lafferty. No. 919,599; Apr. 27; Sp. p. 5679; Gaz. vol. 141; p. 976.  
 Casein, Machine for grinding green. L. Axtell. No. 926,801; July 6; Sp. p. 193; Gaz. vol. 144; p. 32.  
 Casein, Separating. R. Head. No. 917,062; Apr. 6; Sp. p. 202; Gaz. vol. 141; p. 38.  
 Cash and package carrier propelling mechanism. L. B. Bethards. No. 927,212; July 6; Sp. p. 1060; Gaz. vol. 144; p. 171.  
 Cash-carrier. M. C. Swezey. No. 918,099; Apr. 13; Sp. p. 2313; Gaz. vol. 141; p. 415.  
 Cash issuing, indicating, and registering apparatus. F. Drobnjak and J. Planecki. No. 932,973; Aug. 31; Sp. p. 7033; Gaz. vol. 145; p. 1210.  
 Cash, parcels, &c., Apparatus for transferring. E. C. Phillips. No. 913,975; Mar. 2; Sp. p. 688; Gaz. vol. 140; p. 107.  
 Cash-register. H. S. Hallwood. No. 909,786; Jan. 12; Sp. p. 2716; Gaz. vol. 138; p. 480.  
 Cash-register. S. H. Pocock. No. 909,932; Jan. 19; Sp. p. 3032; Gaz. vol. 138; p. 562.  
 Cash-register. F. L. Fuller. No. 915,090; Mar. 16; Sp. p. 2949; Gaz. vol. 140; p. 524.  
 Cash-register. J. P. Cleal and A. Macauley. No. 920,110; May 4; Sp. p. 19; Gaz. vol. 142; p. 5.  
 Cash-register. A. H. Heltberg. No. 923,172; June 1; Sp. p. 109; Gaz. vol. 143; p. 18.  
 Cash-register. F. C. Osborn. No. 926,072; June 22; Sp. p. 6248; Gaz. vol. 143; p. 1076.  
 Cash-register. W. H. Muzzy. No. 928,267; July 20; Sp. p. 3270; Gaz. vol. 144; p. 580.  
 Cash-register. C. Palmer. No. 929,006; July 27; Sp. p. 4765; Gaz. vol. 144; p. 853.  
 Cash-register. T. Carroll. No. 934,994; Sept. 28; Sp. p. 4062; Gaz. vol. 146; p. 730.  
 Cash-register. E. S. Church. No. 935,640; Oct. 5; Sp. p. 24; Gaz. vol. 147; p. 6.  
 Cash-register. W. H. Muzzy. No. 935,677; Oct. 5; Sp. p. 112; Gaz. vol. 147; p. 19.  
 Cash-register. E. J. von Peln. No. 938,527; Nov. 2; Sp. p. 192; Gaz. vol. 148; p. 28.  
 Cash-register. W. H. Muzzy. No. 939,289; Nov. 9; Sp. p. 1825; Gaz. vol. 148; p. 316.  
 Cash-register. W. J. McKee. No. 940,816; Nov. 23; Sp. p. 5267; Gaz. vol. 148; p. 894.  
 Cash-register. W. H. Muzzy. No. 941,378; Nov. 30; Sp. p. 6465; Gaz. vol. 148; p. 1101.  
 Cash register and indicator. J. F. Parker. No. 913,551; Feb. 23; Sp. p. 5230; Gaz. vol. 139; p. 927.  
 Cash-register and money-changer, Combined. C. A. Grimm. No. 936,122; Oct. 5; Sp. p. 1097; Gaz. vol. 147; p. 167.  
 Cash-register attachment. O. K. Sletto. No. 931,349; Aug. 17; Sp. p. 3661; Gaz. vol. 145; p. 632.  
 Cash-register attachment. J. E. Cosby. No. 937,576; Oct. 19; Sp. p. 4136; Gaz. vol. 147; p. 704.  
 Cash-register driving mechanism. C. F. Kettering. No. 924,616; June 8; Sp. p. 3272; Gaz. vol. 143; p. 533.  
 Cash-register indicator. A. J. Postans. No. 942,348; Dec. 7; Sp. p. 674; Gaz. vol. 149; p. 108.  
 Cash register, indicator, and recorder. J. F. Parker. No. 913,549; Feb. 23; Sp. p. 5203; Gaz. vol. 139; p. 927.  
 Cash register, indicator, and recorder. J. F. Parker. No. 913,550; Feb. 23; Sp. p. 5217; Gaz. vol. 139; p. 927.  
 Cash-registering till. M. W. Smith. No. 913,779; Mar. 2; Sp. p. 215; Gaz. vol. 140; p. 36.  
 Cask, &c. W. Houllier. No. 919,433; Apr. 27; Sp. p. 5312; Gaz. vol. 141; p. 918.  
 Cask cleaning and pitching apparatus. P. Seifert. No. 929,793; Aug. 3; Sp. p. 343; Gaz. vol. 145; p. 58.  
 Cask-making machine. J. Gilmour. No. 920,730; May 4; Sp. p. 1302; Gaz. vol. 142; p. 210.  
 Cask-pitching machine. H. Rauch. No. 933,202; Sept. 7; Sp. p. 380; Gaz. vol. 146; p. 59.  
 Cask-pitching machine. H. and H. E. Rauch. No. 933,203; Sept. 7; Sp. p. 383; Gaz. vol. 146; p. 60.  
 Casks and other vessels, Means for venting. L. E. Saunders. No. 922,198; May 18; Sp. p. 4332; Gaz. vol. 142; p. 753.  
 Casks, Device for planing the rims of. L. Drexler. No. 909,164; Jan. 12; Sp. p. 1515; Gaz. vol. 138; p. 275.  
 Casket. A. Malinowsky. No. 936,003; Oct. 5; Sp. p. 854; Gaz. vol. 147; p. 128.  
 Casket-carrier. L. H. Montross. No. 937,086; Oct. 19; Sp. p. 3079; Gaz. vol. 147; p. 541.  
 Casket-clamp for hearses or funeral-cars, Adjustable. W. A. Roe and W. H. Antes. No. 931,490; Aug. 17; Sp. p. 3935; Gaz. vol. 145; p. 679.  
 Casket, Collapsible. R. E. Hahn. No. 930,543; Aug. 10; Sp. p. 1893; Gaz. vol. 145; p. 334.  
 Casket flower-support. E. L. Berg. No. 917,839; Apr. 13; Sp. p. 1760; Gaz. vol. 141; p. 323.  
 Casket-handle. E. R. Sargent. No. 943,999; Dec. 21; Sp. p. 4242; Gaz. vol. 149; p. 730.  
 Caskets, Foldable display-rack for. C. O. Whitcomb and W. Cleaver. No. 915,641; Mar. 16; Sp. p. 4101; Gaz. vol. 140; p. 708.  
 Caskets or burial-vaults, Making. A. E. Magoris. No. 925,929; June 22; Sp. p. 5961; Gaz. vol. 143; p. 1029.  
 Cast-off. J. F. Melloy. No. 908,480; Jan. 5; Sp. p. 96; Gaz. vol. 138; p. 18.  
 Caster. J. E. Johnson. No. 909,305; Jan. 12; Sp. p. 1787; Gaz. vol. 138; p. 320.  
 Caster. T. F. Jennings. No. 919,873; Apr. 27; Sp. p. 6258; Gaz. vol. 141; p. 1067.  
 Caster. B. C. Mathes. No. 927,061; July 6; Sp. p. 764; Gaz. vol. 144; p. 121.  
 Caster. F. Villiers. No. 928,087; July 13; Sp. p. 2863; Gaz. vol. 144; p. 488.  
 Caster. I. L. Leasure. No. 930,199; Aug. 3; Sp. p. 1201; Gaz. vol. 145; p. 196.  
 Caster. J. Montgomery. No. 930,402; Aug. 10; Sp. p. 1572; Gaz. vol. 145; p. 285.  
 Caster. W. Maier. No. 932,038; Aug. 24; Sp. p. 5141; Gaz. vol. 145; p. 878.  
 Caster. E. H. Humphrey. No. 938,867; Nov. 2; Sp. p. 912; Gaz. vol. 148; p. 143.  
 Caster. B. H. Noelting. No. 938,888; Nov. 2; Sp. p. 951; Gaz. vol. 148; p. 151.  
 Caster. G. W. Bent. No. 940,780; Nov. 23; Sp. p. 5193; Gaz. vol. 148; p. 882.  
 Caster. J. E. Johnson. No. 942,565; Dec. 7; Sp. p. 1120; Gaz. vol. 149; p. 182.  
 Caster, Adjustable. J. Sharon. No. 920,673; May 4; Sp. p. 1189; Gaz. vol. 142; p. 191.  
 Caster, Adjustable. C. Bopp. No. 922,381; May 18; Sp. p. 4680; Gaz. vol. 142; p. 812.  
 Caster, Adjustable. J. M. Wood. No. 935,289; Sept. 28; Sp. p. 4653; Gaz. vol. 146; p. 826.  
 Caster-attaching bearing-box. V. C. Luppert. No. 925,117; June 15; Sp. p. 4315; Gaz. vol. 143; p. 735.  
 Caster-attaching bearing-box. V. C. Luppert. No. 933,999; Sept. 14; Sp. p. 2103; Gaz. vol. 146; p. 347.  
 Caster, Ball-. H. M. Powers. No. 931,958; Aug. 24; Sp. p. 4973; Gaz. vol. 145; p. 851.  
 Caster-brake. W. F. Young. No. 918,636; Apr. 20; Sp. p. 3444; Gaz. vol. 141; p. 621.  
 Caster for gymnasium apparatus. F. Medart. No. 940,606; Nov. 16; Sp. p. 4785; Gaz. vol. 148; p. 797.  
 Caster for portable tables. T. R. Treiber. No. 934,480; Sept. 21; Sp. p. 3048; Gaz. vol. 146; p. 531.  
 Caster for tubular legs for furniture. A. B. Diss. No. 911,213; Feb. 2; Sp. p. 374; Gaz. vol. 139; p. 65.  
 Caster for tubular legs for furniture. A. B. Diss. No. 911,214; Feb. 2; Sp. p. 375; Gaz. vol. 139; p. 65.  
 Caster, Furniture-. G. E. Neuberth. No. 934,004; Sept. 14; Sp. p. 2110; Gaz. vol. 146; p. 348.  
 Caster, Furniture-. E. H. Humphrey. No. 938,866; Nov. 2; Sp. p. 910; Gaz. vol. 148; p. 143.  
 Caster, Leg-mount. G. E. Neuberth. No. 934,005; Sept. 14; Sp. p. 2111; Gaz. vol. 146; p. 348.  
 Caster-retaining device. D. A. Maccuaig. No. 921,132; May 11; Sp. p. 2116; Gaz. vol. 142; p. 373.  
 Caster-retaining device. D. A. Maccuaig. No. 921,133; May 11; Sp. p. 2117; Gaz. vol. 142; p. 373.  
 Caster-retaining device. D. A. Maccuaig. No. 929,964; Aug. 3; Sp. p. 723; Gaz. vol. 145; p. 115.  
 Caster-retaining socket. A. D. Maccuaig. No. 943,432; Dec. 14; Sp. p. 2994; Gaz. vol. 149; p. 505.  
 Caster, Self-adjusting. T. C. Luce. No. 941,082; Nov. 23; Sp. p. 5818; Gaz. vol. 148; p. 982.  
 Caster socket member. D. A. Maccuaig. No. 933,258; Sept. 7; Sp. p. 526; Gaz. vol. 146; p. 80.  
 Caster track, Bed-. P. R. Chabassol. No. 927,113; July 6; Sp. p. 871; Gaz. vol. 144; p. 139.  
 Caster-wheel. J. F. L. Uhl. No. 915,909; Mar. 23; Sp. p. 4633; Gaz. vol. 140; p. 822.  
 Caster-wheel. B. C. Mathes. No. 932,624; Aug. 31; Sp. p. 6353; Gaz. vol. 145; p. 1096.  
 Casting. H. D. Zehrbach. No. 908,828; Jan. 5; Sp. p. 829; Gaz. vol. 138; p. 130.  
 Casting, abrading, grinding, cutting, and polishing substances in a metallic matrix. C. J. and F. G. Marius. No. 918,069; Apr. 13; Sp. p. 2258; Gaz. vol. 141; p. 406.  
 Casting and making same, Malleable-iron. J. J. Manning and J. W. Stephenson. No. 922,791; May 25; Sp. p. 5549; Gaz. vol. 142; p. 975.  
 Casting and making same, Malleable-iron. J. J. Manning and J. W. Stephenson. No. 922,793; May 25; Sp. p. 5551; Gaz. vol. 142; p. 975.  
 Casting apparatus. E. B. Van Wagner. No. 924,858; June 15; Sp. p. 3792; Gaz. vol. 143; p. 648.  
 Casting apparatus. I. Shönberg. No. 937,477; Oct. 19; Sp. p. 3943; Gaz. vol. 147; p. 670.  
 Casting apparatus. A. Casey. No. 940,302; Nov. 16; Sp. p. 4125; Gaz. vol. 148; p. 696.  
 Casting apparatus, Pressure. R. N. Le Cron. No. 927,661; July 13; Sp. p. 2002; Gaz. vol. 144; p. 348.  
 Casting apparatus, Stereotype-. H. F. Bechman. No. 929,747; Aug. 3; Sp. p. 239; Gaz. vol. 145; p. 41.  
 Casting blocks and other pieces, Diminishing the formation of flaws or blow-holes when. A. von Paravicini. No. 920,638; May 4; Sp. p. 1102; Gaz. vol. 142; p. 179.  
 Casting hollow structures in permanent molds. E. A. Custer. No. 922,754; May 25; Sp. p. 5475; Gaz. vol. 142; p. 963.  
 Casting-ladle. D. Collier. No. 927,715; July 13; Sp. p. 2111; Gaz. vol. 144; p. 366.  
 Casting-machine. F. N. Cline. No. 928,246; July 20; Sp. p. 3210; Gaz. vol. 144; p. 572.  
 Casting-machine. J. Soss and A. W. Christianson. No. 936,378; Oct. 12; Sp. p. 1626; Gaz. vol. 147; p. 276.  
 Casting-machine. J. Soss and A. W. Christianson. No. 936,486; Oct. 12; Sp. p. 1880; Gaz. vol. 147; p. 311.  
 Casting-machine. F. H. Howard. No. 942,073; Dec. 7; Sp. p. 65; Gaz. vol. 149; p. 13.  
 Casting machine, Ingot-. L. E. Howard. No. 922,587; May 25; Sp. p. 5122; Gaz. vol. 142; p. 909.  
 Casting machine, Ingot-. L. E. Howard. No. 926,489; June 29; Sp. p. 7078; Gaz. vol. 143; p. 1248.

*Alphabetical list of inventions—Continued.*

- Casting machine, Line-. J. McNamara. No. 920,617; May 4; Sp. p. 1060; Gaz. vol. 142; p. 172.  
 Casting-machine mold. J. A. Mohr and F. H. N. Gerwig. No. 932,047; Aug. 24; Sp. p. 5166; Gaz. vol. 145; p. 881.  
 Casting machine parts. J. T. Uebbing. No. 918,400; Apr. 13; Sp. p. 2913; Gaz. vol. 141; p. 514.  
 Casting metal articles, Method or system of. S. Barnes. No. 910,448; Jan. 19; Sp. p. 4123; Gaz. vol. 138; p. 739.  
 Casting metal ingots. J. F. Monnot. No. 929,688; Aug. 3; Sp. p. 96; Gaz. vol. 145; p. 18.  
 Casting metal pots, &c., Mold for. J. Power. No. 936,939; Oct. 12; Sp. p. 2772; Gaz. vol. 147; p. 464.  
 Casting metal structures in permanent molds having permanent cores. E. A. Custer. No. 925,803; June 22; Sp. p. 5699; Gaz. vol. 143; p. 987.  
 Casting metals. W. G. Nichols. No. 938,688; Nov. 2; Sp. p. 535; Gaz. vol. 148; p. 83.  
 Casting metals. W. G. Nichols. No. 938,689; Nov. 2; Sp. p. 537; Gaz. vol. 148; p. 83.  
 Casting metals, Manufacture of molds for. E. L. Bohl. No. 924,728; June 15; Sp. p. 3513; Gaz. vol. 143; p. 604.  
 Casting metallic members. H. M. Pfleger. No. 942,928; Dec. 14; Sp. p. 1918; Gaz. vol. 149; p. 334.  
 Casting operations, Means for preparing core-bars for the. M. H. Fletcher. No. 943,303; Dec. 14; Sp. p. 2733; Gaz. vol. 149; p. 462.  
 Casting pipe. D. B. Dimick. No. 937,582; Oct. 19; Sp. p. 4148; Gaz. vol. 147; p. 706.  
 Casting plant. W. J. Patterson and A. B. Neumann. No. 912,406; Feb. 16; Sp. p. 2859; Gaz. vol. 139; p. 519.  
 Casting plant. C. W. Sherman. No. 938,904; Nov. 2; Sp. p. 1003; Gaz. vol. 148; p. 158.  
 Casting rolls. J. L. Lewis. No. 933,996; Sept. 14; Sp. p. 2098; Gaz. vol. 146; p. 346.  
 Casting rolls, Mold for. J. L. Lewis. No. 934,410; Sept. 14; Sp. p. 2903; Gaz. vol. 146; p. 485.  
 Casting safe-knobs, Means used for. W. T. Baumann. No. 915,820; Mar. 23; Sp. p. 4474; Gaz. vol. 140; p. 793.  
 Casting structures. E. A. Custer. No. 922,753; May 25; Sp. p. 5473; Gaz. vol. 142; p. 963.  
 Castings by air-pressure, Means for making. O. J. Sayers. No. 937,964; Oct. 26; Sp. p. 4923; Gaz. vol. 147; p. 850.  
 Castings, Device for forming molds to produce screw-threaded. G. A. Hattersley. No. 931,760; Aug. 24; Sp. p. 4526; Gaz. vol. 145; p. 787.  
 Castings, Device for making. H. M. Davison. No. 919,136; Apr. 20; Sp. p. 4498; Gaz. vol. 141; p. 785.  
 Castings, ingots, and the like, Making. F. E. Mesta. No. 937,163; Oct. 18; Sp. p. 3251; Gaz. vol. 147; p. 567.  
 Castings, Machine for removing cores from. F. M. Sharp and L. W. Williams. No. 930,892; Aug. 10; Sp. p. 2622; Gaz. vol. 145; p. 449.  
 Castings, Making. J. J. Manning and J. W. Stephenson. No. 922,792; May 25; Sp. p. 5551; Gaz. vol. 142; p. 975.  
 Castings, Means for forming threaded openings in. J. Bedell. No. 914,915; Mar. 9; Sp. p. 2630; Gaz. vol. 140; p. 441.  
 Castings, Mold for making I-beam. T. De la Hunt. No. 932,020; Aug. 24; Sp. p. 5099; Gaz. vol. 145; p. 872.  
 Castings of aluminum and aluminum alloys, Making. E. Blough. No. 915,727; Mar. 23; Sp. p. 4300; Gaz. vol. 140; p. 764.  
 Castings of aluminum and aluminum alloys, Mold for making. E. Blough. No. 915,728; Mar. 23; Sp. p. 4302; Gaz. vol. 140; p. 765.  
 Cat-guard. Z. D. Underhill. No. 940,755; Nov. 23; Sp. p. 5128; Gaz. vol. 148; p. 873.  
 Cataloguing system. R. T. Close. No. 941,499; Nov. 30; Sp. p. 6733; Gaz. vol. 148; p. 1141.  
 Catamenial appliance. D. S. Daudt. No. 924,644; June 15; Sp. p. 3340; Gaz. vol. 143; p. 575.  
 Catamenial bandage. J. A. Treber and B. Simon. No. 909,349; Jan. 12; Sp. p. 1864; Gaz. vol. 138; p. 334.  
 Catamenial bandage. I. L. Plamondon. No. 929,166; July 27; Sp. p. 5103; Gaz. vol. 144; p. 907.  
 Catamenial bandage. C. B. Cahoon. No. 938,967; Nov. 2; Sp. p. 1120; Gaz. vol. 148; p. 179.  
 Catamenial garment. A. L. Brodton. No. 939,943; Nov. 9; Sp. p. 3286; Gaz. vol. 148; p. 542.  
 Catamenial receptacle. P. J. Scheller and N. I. Haas. No. 913,983; Mar. 2; Sp. p. 703; Gaz. vol. 140; p. 110.  
 Catamenial sack. F. A. Frommann. No. 924,337; June 8; Sp. p. 2714; Gaz. vol. 143; p. 442.  
 Catapult. W. W. McNaughton. No. 922,804; May 25; Sp. p. 5573; Gaz. vol. 142; p. 979.  
 Catapult. R. C. Winchester. No. 942,300; Dec. 7; Sp. p. 578; Gaz. vol. 149; p. 92.  
 Catch-basin cover. C. A. Johnson and A. L. Mills. No. 918,860; Apr. 20; Sp. p. 3957; Gaz. vol. 141; p. 696.  
 Catch, Holdfast spring. T. Morris. No. 938,267; Oct. 26; Sp. p. 5583; Gaz. vol. 147; p. 954.  
 Catch, Safety-. A. J. Thurstans. No. 938,090; Oct. 26; Sp. p. 5210; Gaz. vol. 147; p. 893.  
 Catching and killing device. A. Tebbitt. No. 913,858; Mar. 2; Sp. p. 377; Gaz. vol. 140; p. 64.  
 Catsup, tomato-pulp, and other thick liquids, Device for testing the consistency of. R. W. Huss. No. 943,830; Dec. 21; Sp. p. 3864; Gaz. vol. 149; p. 672.  
 Cattle, Compound for dipping. R. A. Wyland. No. 916,519; Mar. 30; Sp. p. 5841; Gaz. vol. 140; p. 1048.  
 Cattle-guard. J. McCluskey. No. 908,600; Jan. 5; Sp. p. 358; Gaz. vol. 138; p. 58.  
 Cattle-guard. J. L. Crouch. No. 911,211; Feb. 2; Sp. p. 371; Gaz. vol. 139; p. 65.  
 Cattle-guard. D. A. Sims and W. M. Brown. No. 918,478; Apr. 13; Sp. p. 3071; Gaz. vol. 141; p. 539.  
 Cattle-guard. J. A. Lee. No. 922,165; May 18; Sp. p. 4245; Gaz. vol. 142; p. 742.  
 Cattle-guard. D. Thomson. No. 923,383; June 1; Sp. p. 618; Gaz. vol. 143; p. 91.  
 Cattle-guard. J. H. Hammill. No. 923,512; June 1; Sp. p. 890; Gaz. vol. 143; p. 136.  
 Cattle-guard. B. E. Mosher. No. 932,634; Aug. 31; Sp. p. 6374; Gaz. vol. 145; p. 1100.  
 Cattle-guard. D. A. Prendergast. No. 935,813; Oct. 5; Sp. p. 462; Gaz. vol. 147; p. 66.  
 Cattle-guard. G. W. Youngs. No. 936,974; Oct. 12; Sp. p. 2848; Gaz. vol. 147; p. 475.  
 Cattle-guard. C. L. Wilcox. No. 938,032; Oct. 26; Sp. p. 5071; Gaz. vol. 147; p. 873.  
 Cattle-guard. S. C. Dunn. No. 942,059; Dec. 7; Sp. p. 33; Gaz. vol. 149; p. 8.  
 Cattle-stanchion. W. B. Crumb. No. 909,760; Jan. 12; Sp. p. 2674; Gaz. vol. 138; p. 472.  
 Cattle-stanchion. R. Grafton. No. 913,723; Mar. 2; Sp. p. 95; Gaz. vol. 140; p. 17.  
 Caulsticizing-tank. E. F. Parker. No. 941,036; Nov. 23; Sp. p. 5727; Gaz. vol. 148; p. 966.  
 Ceiling construction. P. Allinio. No. 914,102; Mar. 2; Sp. p. 963; Gaz. vol. 140; p. 151.  
 Ceiling construction, Metal-. R. Goho. No. 920,563; May 4; Sp. p. 953; Gaz. vol. 142; p. 155.  
 Ceiling-fixture, Electric. A. G. Walin. No. 937,342; Oct. 19; Sp. p. 3635; Gaz. vol. 147; p. 625.  
 Ceiling-hook. H. L. Bradley. No. 927,483; July 13; Sp. p. 1600; Gaz. vol. 144; p. 287.  
 Ceiling-plate, Adjustable hinged. R. Lewers. No. 916,568; Mar. 30; Sp. p. 5930; Gaz. vol. 140; p. 1064.  
 Celery-bleaching sleeve. C. W. Mark. No. 931,628; Aug. 17; Sp. p. 4196; Gaz. vol. 145; p. 720.  
 Cell for electrolytic or other purposes. H. S. Blackmore. No. 922,079; May 18; Sp. p. 4088; Gaz. vol. 142; p. 715.  
 Cell, Galvanic. B. Jonas. No. 913,898; Mar. 2; Sp. p. 492; Gaz. vol. 140; p. 79.  
 Cells, Manufacture of sensitive. P. Ribbe. No. 919,078; Apr. 20; Sp. p. 4385; Gaz. vol. 141; p. 766.  
 Cellar-pipe and nozzle therefor. M. H. Hart. No. 923,835; June 1; Sp. p. 1669; Gaz. vol. 143; p. 276.  
 Cellar-spray, Detachable. J. F. Oliver. No. 909,654; Jan. 12; Sp. p. 2462; Gaz. vol. 138; p. 437.  
 Cellular boards, Machine for making. S. M. Langston. No. 929,451; July 27; Sp. p. 5692; Gaz. vol. 144; p. 909.  
 Cellulose acetates, Manufacture of objects from. A. Schloss. No. 922,340; May 18; Sp. p. 4597; Gaz. vol. 142; p. 799.  
 Cellulose article, Colored. O. Müller. No. 931,634; Aug. 17; Sp. p. 4202; Gaz. vol. 145; p. 721.  
 Cellulose material, Making. C. F. Cross and J. F. Briggs. No. 920,828; May 4; Sp. p. 1487; Gaz. vol. 142; p. 240.  
 Cellulose solutions, Production of. E. Crumière. No. 908,754; Jan. 5; Sp. p. 693; Gaz. vol. 138; p. 107.  
 Cellulose substitute. O. Müller. No. 930,874; Aug. 10; Sp. p. 2570; Gaz. vol. 145; p. 443.  
 Cement. T. Jones. No. 916,165; Mar. 23; Sp. p. 5116; Gaz. vol. 140; p. 905.  
 Cement and concrete mixer. W. D. Wise. No. 944,399; Dec. 28; Sp. p. 5072; Gaz. vol. 149; p. 893.  
 Cement and like materials, Process of and apparatus for burning. E. Eldred. No. 928,512; July 20; Sp. p. 3761; Gaz. vol. 144; p. 661.  
 Cement and making same, Package of sticky. A. Thoma. No. 931,350; Aug. 17; Sp. p. 3663; Gaz. vol. 145; p. 632.  
 Cement and making same, Waterproof Portland. C. McCormick. No. 931,884; Aug. 24; Sp. p. 4775; Gaz. vol. 145; p. 826.  
 Cement and making the same, Waterproof. J. F. Schoellkopf. No. 930,697; Aug. 10; Sp. p. 2202; Gaz. vol. 145; p. 384.  
 Cement and metal constructions, Strengthening member for composite. O. M. Davis. No. 918,019; Apr. 13; Sp. p. 2155; Gaz. vol. 141; p. 388.  
 Cement and other products, Making. S. Peacock. No. 939,078; Nov. 2; Sp. p. 1337; Gaz. vol. 148; p. 217.  
 Cement-applying machine. W. F. Lautenschlager. No. 911,600; Feb. 9; Sp. p. 1128; Gaz. vol. 139; p. 218.  
 Cement-applying machine. W. F. Lautenschlager. No. 913,829; Mar. 2; Sp. p. 307; Gaz. vol. 140; p. 53.  
 Cement-applying machine. G. F. Dunn. No. 930,593; Aug. 10; Sp. p. 1996; Gaz. vol. 145; p. 350.  
 Cement, Bituminous. J. H. Amies. No. 935,573; Sept. 28; Sp. p. 5243; Gaz. vol. 146; p. 920.  
 Cement block. W. L. Keller. No. 934,319; Sept. 14; Sp. p. 2726; Gaz. vol. 146; p. 453.  
 Cement block for wall structure. W. L. Davidson. No. 941,624; Nov. 30; Sp. p. 6987; Gaz. vol. 148; p. 1182.  
 Cement-block machine. O. Coon. No. 915,556; Mar. 16; Sp. p. 3929; Gaz. vol. 140; p. 678.  
 Cement-block machine. J. E. Moore and G. F. Simmons. No. 937,627; Oct. 19; Sp. p. 4230; Gaz. vol. 147; p. 721.  
 Cement-block machine. F. J. Emlal and C. F. Horn. No. 939,236; Nov. 9; Sp. p. 1710; Gaz. vol. 148; p. 297.  
 Cement-block-making machine. H. and J. H. Besser. No. 930,455; Aug. 10; Sp. p. 1670; Gaz. vol. 145; p. 302.  
 Cement-block-molding machine. L. P. Normandin. No. 944,272; Dec. 28; Sp. p. 4789; Gaz. vol. 149; p. 847.  
 Cement-blocks, Waterproof. J. A. Fincke. No. 934,061; Sept. 14; Sp. p. 2215; Gaz. vol. 146; p. 366.  
 Cement building-block. J. Crawford. No. 912,080; Feb. 9; Sp. p. 2169; Gaz. vol. 139; p. 375.  
 Cement building-block. C. W. Everett and E. Ashcraft. No. 916,687; Mar. 30; Sp. p. 6147; Gaz. vol. 140; p. 1102.



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- Cement buildings, Waterproofing-paint for Portland-. T. A. Edison. No. 909,167; Jan. 12; Sp. p. 1524; Gaz. vol. 138; p. 276.
- Cement-burning apparatus. H. L. Doherty. No. 918,020; Apr. 13; Sp. p. 2156; Gaz. vol. 141; p. 388.
- Cement-burning apparatus. H. S. Spackman. No. 920,784; May 4; Sp. p. 1398; Gaz. vol. 142; p. 226.
- Cement-burning apparatus, Portland-. T. A. Edison. No. 930,946; Aug. 10; Sp. p. 2733; Gaz. vol. 145; p. 466.
- Cement-burning apparatus, Portland-. T. A. Edison. No. 930,948; Aug. 10; Sp. p. 2742; Gaz. vol. 145; p. 467.
- Cement-burning apparatus, Portland-. T. A. Edison. No. 930,949; Aug. 10; Sp. p. 2747; Gaz. vol. 145; p. 467.
- Cement-burning kiln, Rotary. F. J. Poths. No. 929,167; July 27; Sp. p. 5104; Gaz. vol. 144; p. 907.
- Cement-cistern mold. N. Bronhard. No. 929,825; Aug. 3; Sp. p. 418; Gaz. vol. 145; p. 69.
- Cement clinker, Burning. C. Ellis. No. 918,025; Apr. 13; Sp. p. 2173; Gaz. vol. 141; p. 390.
- Cement clinker, Process and apparatus for making. C. Ellis. No. 934,056; Sept. 14; Sp. p. 2202; Gaz. vol. 146; p. 364.
- Cement clinker, Process of and apparatus for making. C. Ellis. No. 910,121; Jan. 19; Sp. p. 3390; Gaz. vol. 138; p. 623.
- Cement, Composition of matter for basing. D. Hand. No. 917,057; Apr. 6; Sp. p. 194; Gaz. vol. 141; p. 36.
- Cement flint clay brick for metallurgical and other purposes. C. E. Pope. No. 944,693; Dec. 28; Sp. p. 5740; Gaz. vol. 149; p. 994.
- Cement garbage-boxes, Mold for forming. J. M. Thinnies. No. 934,477; Sept. 21; Sp. p. 3038; Gaz. vol. 146; p. 530.
- Cement head-gates, Means for making. T. Putz. No. 915,698; Mar. 16; Sp. p. 4226; Gaz. vol. 140; p. 728.
- Cement heating and distributing apparatus. S. J. Wentworth. No. 929,178; July 27; Sp. p. 5123; Gaz. vol. 144; p. 910.
- Cement, Hydraulic. A. C. Spencer and E. C. Eckel. No. 912,266; Feb. 9; Sp. p. 2523; Gaz. vol. 139; p. 434.
- Cement ingredient. W. V. B. Ames. No. 923,238; June 1; Sp. p. 242; Gaz. vol. 143; p. 40.
- Cement-kiln. T. A. Edison. No. 939,817; Nov. 9; Sp. p. 3016; Gaz. vol. 148; p. 497.
- Cement-kiln. T. M. Morgan. No. 942,509; Dec. 7; Sp. p. 1013; Gaz. vol. 149; p. 163.
- Cement-lined pipe and fittings. F. H. Caney. No. 942,436; Dec. 7; Sp. p. 835; Gaz. vol. 149; p. 137.
- Cement, Magnesite. C. Ellis. No. 909,171; Jan. 12; Sp. p. 1729; Gaz. vol. 138; p. 277.
- Cement, Making. E. J. Winslow. No. 913,794; Mar. 2; Sp. p. 249; Gaz. vol. 140; p. 42.
- Cement, Making. R. W. Lesley and H. S. Spackman. No. 929,145; July 27; Sp. p. 5062; Gaz. vol. 144; p. 899.
- Cement-making apparatus. R. W. Lesley and H. S. Spackman. No. 929,144; July 27; Sp. p. 5059; Gaz. vol. 144; p. 899.
- Cement, Making Portland. J. M. Carrière. No. 932,374; Aug. 24; Sp. p. 5791; Gaz. vol. 145; p. 989.
- Cement, Manufacture of. S. O. Cowper-Coles. No. 939,217; Nov. 9; Sp. p. 1653; Gaz. vol. 145; p. 291.
- Cement, Manufacture of hydraulic. C. J. Potter. No. 917,129; Apr. 6; Sp. p. 350; Gaz. vol. 141; p. 62.
- Cement, Manufacturing. M. Trembour. No. 932,917; Aug. 31; Sp. p. 6929; Gaz. vol. 145; p. 1191.
- Cement, Manufacturing. M. Trembour. No. 935,617; Sept. 28; Sp. p. 5328; Gaz. vol. 146; p. 935.
- Cement-mixer. A. G. Olsen. No. 913,425; Feb. 23; Sp. p. 4946; Gaz. vol. 139; p. 885.
- Cement-mixer-feeding device. H. C. Baxter. No. 942,051; Dec. 7; Sp. p. 15; Gaz. vol. 149; p. 5.
- Cement, mortar, and concrete water-tight, Making. P. Mecke. No. 929,152; July 27; Sp. p. 5076; Gaz. vol. 144; p. 902.
- Cement-pipe machine. W. J. Jeffries. No. 832,023; Aug. 24; Sp. p. 5105; Gaz. vol. 145; p. 873.
- Cement-post attachment. E. M. Slayton. No. 928,807; July 20; Sp. p. 4351; Gaz. vol. 144; p. 759.
- Cement-post machine. B. J. Gibler. No. 937,300; Oct. 19; Sp. p. 3538; Gaz. vol. 147; p. 611.
- Cement posts, Wire-holder for. P. Wachtel. No. 920,407; May 4; Sp. p. 641; Gaz. vol. 142; p. 103.
- Cement-pot. H. W. Lawson. No. 940,333; Nov. 16; Sp. p. 4194; Gaz. vol. 148; p. 706.
- Cement, Process and apparatus for artificially aging or seasoning Portland. T. A. Edison. No. 941,630; Nov. 30; Sp. p. 6998; Gaz. vol. 148; p. 1184.
- Cement, Process and apparatus for artificially aging or seasoning Portland. T. A. Edison. No. 944,481; Dec. 28; Sp. p. 5256; Gaz. vol. 149; p. 920.
- Cement, Process and apparatus for the manufacture of Portland. C. F. McKenna. No. 936,555; Oct. 12; Sp. p. 2019; Gaz. vol. 147; p. 333.
- Cement, Process of and apparatus for burning. B. E. Eldred. No. 928,513; July 20; Sp. p. 3765; Gaz. vol. 144; p. 661.
- Cement product and making same, Vitrified. H. C. Todd and C. Mayr. No. 935,616; Sept. 28; Sp. p. 5327; Gaz. vol. 146; p. 934.
- Cement sectional conduit, Reinforced-. H. J. Keenan and E. J. Tobin. No. 918,678; Apr. 20; Sp. p. 3571; Gaz. vol. 141; p. 635.
- Cement-shingle machine. L. G. Satterlee. No. 944,508; Dec. 28; Sp. p. 5337; Gaz. vol. 149; p. 930.
- Cement sidewalks or similar structures, Apparatus and process for laying. A. D. Nay. No. 939,071; Nov. 2; Sp. p. 1322; Gaz. vol. 148; p. 215.
- Cement-silica brick for metallurgical and other uses. C. E. Pope. No. 944,694; Dec. 28; Sp. p. 5741; Gaz. vol. 149; p. 994.
- Cement structures, Waterproofing-paint for Portland-. T. A. Edison. No. 909,169; Jan. 12; Sp. p. 1526; Gaz. vol. 138; p. 276.
- Cement surfaces and product, Treating Portland-. M. Toch. No. 943,327; Dec. 14; Sp. p. 2732; Gaz. vol. 149; p. 469.
- Cement stub-mold. T. V. Galassé. No. 941,139; Nov. 23; Sp. p. 5952; Gaz. vol. 148; p. 1001.
- Cement, Waterproof. M. M. Smith. No. 918,384; Apr. 13; Sp. p. 2884; Gaz. vol. 141; p. 509.
- Cement-worker's tool. J. T. Harrop. No. 923,834; June 8; Sp. p. 1668; Gaz. vol. 143; p. 276.
- Cement-worker's tool. J. T. Harrop. No. 930,374; Aug. 10; Sp. p. 1520; Gaz. vol. 145; p. 276.
- Cementitious composition and making same. W. E. Carson. No. 939,977; Nov. 16; Sp. p. 3363; Gaz. vol. 148; p. 581.
- Cementitious compound and producing the same, Fixed-color. A. C. Horn. No. 932,280; Aug. 24; Sp. p. 5619; Gaz. vol. 145; p. 959.
- Cemetery structure. G. C. Simpson. No. 934,764; Sept. 21; Sp. p. 3592; Gaz. vol. 146; p. 626.
- Center-tube stem-machine. W. N. Packer. No. 936,153; Oct. 5; Sp. p. 1163; Gaz. vol. 147; p. 177.
- Centering device. R. E. Dodge and A. S. Patton. No. 921,521; May 11; Sp. p. 2933; Gaz. vol. 142; p. 503.
- Centering-form. C. D. McArthur. No. 932,993; Aug. 31; Sp. p. 7072; Gaz. vol. 145; p. 1216.
- Centering-machine. W. T. Ruth. No. 943,467; Dec. 14; Sp. p. 3075; Gaz. vol. 149; p. 518.
- Centering-mold. J. E. Moody. No. 930,308; Aug. 3; Sp. p. 1383; Gaz. vol. 145; p. 229.
- Centrifugal apparatus. H. E. Warren. No. 931,707; Aug. 17; Sp. p. 4402; Gaz. vol. 145; p. 747.
- Centrifugal apparatus for separating purposes. E. Jahn. No. 930,966; Aug. 10; Sp. p. 2779; Gaz. vol. 145; p. 472.
- Centrifugal device. F. Hampl. No. 928,750; July 20; Sp. p. 4249; Gaz. vol. 144; p. 740.
- Centrifugal drier. O. Keefer. No. 922,149; May 18; Sp. p. 4221; Gaz. vol. 142; p. 737.
- Centrifugal drums, Device for facilitating reinsertion of disks forming liners of. A. L. Christenson. No. 944,074; Dec. 21; Sp. p. 4389; Gaz. vol. 149; p. 756.
- Centrifugal extractor. H. S. Wilcox and W. Bartholomew. No. 924,864; June 15; Sp. p. 3808; Gaz. vol. 143; p. 650.
- Centrifugal extractor. W. Bartholomew. No. 940,662; Nov. 23; Sp. p. 4921; Gaz. vol. 148; p. 842.
- Centrifugal machine. A. J. Ericsson. No. 911,652; Feb. 9; Sp. p. 1256; Gaz. vol. 139; p. 236.
- Centrifugal machine. W. Jørgensen. No. 922,485; May 25; Sp. p. 4911; Gaz. vol. 142; p. 875.
- Centrifugal machine. G. N. Goddard. No. 928,912; July 20; Sp. p. 4577; Gaz. vol. 144; p. 796.
- Centrifugal machine. H. Schmitz. No. 934,221; Sept. 14; Sp. p. 2545; Gaz. vol. 146; p. 420.
- Centrifugal machine. G. N. Goddard. No. 939,904; Nov. 9; Sp. p. 3201; Gaz. vol. 148; p. 527.
- Centrifugal-machine buffer device. B. Müller. No. 928,996; July 27; Sp. p. 4746; Gaz. vol. 144; p. 850.
- Centrifugal machines, Speed-indicator for. L. A. Laursen. No. 925,641; June 22; Sp. p. 5338; Gaz. vol. 143; p. 935.
- Centrifugal regulator. W. Jahn. No. 943,600; Dec. 14; Sp. p. 3341; Gaz. vol. 149; p. 563.
- Centrifugal screen. W. R. Cunningham. No. 931,280; Aug. 17; Sp. p. 3511; Gaz. vol. 145; p. 608.
- Centrifugalseparator. W. A. Preston and G. M. Duffie. No. 918,592; Apr. 20; Sp. p. 3328; Gaz. vol. 141; p. 605.
- Centrifugalseparator. H. D. Dibble. No. 921,371; May 11; Sp. p. 2640; Gaz. vol. 142; p. 454.
- Centrifugalseparator. B. A. O. Prollius. No. 922,037; May 18; Sp. p. 4011; Gaz. vol. 142; p. 701.
- Centrifugalseparator. J. W. Phillips. No. 924,576; June 8; Sp. p. 2799; Gaz. vol. 143; p. 455.
- Centrifugalseparator. T. S. Patterson. No. 926,596; June 29; Sp. p. 7280; Gaz. vol. 145; p. 1285.
- Centrifugalseparator. J. A. B. Dominguez. No. 926,859; July 6; Sp. p. 327; Gaz. vol. 144; p. 52.
- Centrifugalseparator. J. Morck. No. 929,537; July 27; Sp. p. 5647; Gaz. vol. 144; p. 1028.
- Centrifugalseparators, Automatic feed-regulating float for. C. A. Edmund. No. 916,398; Mar. 23; Sp. p. 5553; Gaz. vol. 140; p. 984.
- Centrifugalseparators, Liner for. B. A. O. Prollius. No. 922,038; May 18; Sp. p. 4012; Gaz. vol. 142; p. 701.
- Centrifugalspreader. G. G. Griswold. No. 921,101; May 11; Sp. p. 2062; Gaz. vol. 142; p. 363.
- Centrifugal switch. C. L. Kennedy. No. 934,920; Sept. 21; Sp. p. 3907; Gaz. vol. 146; p. 678.
- Ceramic-material charger. C. Gielow. No. 911,816; Feb. 9; Sp. p. 1553; Gaz. vol. 139; p. 289.
- Cereal food. M. C. Jackson. No. 913,011; Feb. 23; Sp. p. 4111; Gaz. vol. 139; p. 746.
- Cereal products, Reducing disk machine for the manufacture of. H. D. Perky. No. 913,671; Feb. 23; Sp. p. 5491; Gaz. vol. 139; p. 967.
- Cereals, Conditioning wet. R. W. Jessup. No. 916,448; Mar. 30; Sp. p. 5664; Gaz. vol. 140; p. 1024.
- Certificate of deposit. F. J. Kent. No. 910,070; Jan. 19; Sp. p. 3294; Gaz. vol. 138; p. 608.
- Cesspool, Sectional. D. J. Menton and H. Wiechmann. No. 919,200; Apr. 20; Sp. p. 4617; Gaz. vol. 141; p. 806.
- Chafing-dish. S. Sturnau and L. Strassburger. No. 933,130; Sept. 7; Sp. p. 203; Gaz. vol. 146; p. 34.
- Chafing-dish-lamp shutter. E. D. Holley. No. 926,487; June 29; Sp. p. 7076; Gaz. vol. 143; p. 1248.
- Chafing-dishes, etc., Collapsible stand for. L. K. Sone. No. 923,208; June 1; Sp. p. 185; Gaz. vol. 143; p. 30.
- Chafing-protector. A. H. Allen. No. 917,515; Apr. 6; Sp. p. 1093; Gaz. vol. 141; p. 191.

*Alphabetical list of inventions—Continued.*

- Chain. E. J. Herchert. No. 924,551; June 8; Sp. p. 3130; Gaz. vol. 143; p. 510.  
 Chain. W. H. Trout. No. 932,919; Aug. 31; Sp. p. 6934; Gaz. vol. 145; p. 1191.  
 Chain. F. W. Wakefield. No. 937,663; Oct. 19; Sp. p. 4289; Gaz. vol. 147; p. 731.  
 Chain and link therefor. J. T. Corbett. No. 932,680; Aug. 31; Sp. p. 6472; Gaz. vol. 145; p. 1115.  
 Chain, Articulated. J. Krone. No. 932,034; Aug. 24; Sp. p. 5130; Gaz. vol. 145; p. 877.  
 Chain-beaming machine. A. E. Flight and S. M. Tilton. No. 944,727; Dec. 28; Sp. p. 5810; Gaz. vol. 149; p. 1005.  
 Chain-bolt. J. P. Holtzouser. No. 919,581; Apr. 27; Sp. p. 5639; Gaz. vol. 141; p. 969.  
 Chain-clasp. H. E. Kerley. No. 921,846; May 18; Sp. p. 3631; Gaz. vol. 142; p. 640.  
 Chain conduit. G. Monrath and A. J. Mottlau. No. 929,968; Aug. 3; Sp. p. 729; Gaz. vol. 145; p. 117.  
 Chain construction. B. Goodman. No. 912,837; Feb. 16; Sp. p. 3784; Gaz. vol. 139; p. 665.  
 Chain, Conveyor-. G. F. Conner. No. 908,750; Jan. 5; Sp. p. 682; Gaz. vol. 138; p. 106.  
 Chain, Cutter-. R. E. Noble. No. 921,728; May 18; Sp. p. 3369; Gaz. vol. 142; p. 599.  
 Chain, Drive-. B. G. Berrien. No. 908,642; Jan. 5; Sp. p. 447; Gaz. vol. 138; p. 72.  
 Chain, Drive-. W. M. Butler. No. 913,618; Feb. 23; Sp. p. 5375; Gaz. vol. 139; p. 950.  
 Chain-grate furnace. L. H. Maxfield. No. 944,454; Dec. 28; Sp. p. 5202; Gaz. vol. 149; p. 911.  
 Chain-grip and clevis. J. W. Davis. No. 919,699; Apr. 27; Sp. p. 5879; Gaz. vol. 141; p. 1009.  
 Chain grip systems, Switch for automatic cable. G. S. Fouts. No. 920,856; May 4; Sp. p. 1547; Gaz. vol. 142; p. 250.  
 Chain hoist, Friction. R. E. Cross. No. 916,111; Mar. 23; Sp. p. 5011; Gaz. vol. 140; p. 888.  
 Chain-hook. R. Owen. No. 916,005; Mar. 23; Sp. p. 4823; Gaz. vol. 140; p. 853.  
 Chain-hook. J. M. Sharp. No. 944,970; Dec. 28; Sp. p. 6320; Gaz. vol. 149; p. 1085.  
 Chain-link or chain. T. J. Williams. No. 925,407; June 15; Sp. p. 4841; Gaz. vol. 143; p. 828.  
 Chain-link-welding machine. L. Roehr. No. 923,582; June 1; Sp. p. 1054; Gaz. vol. 143; p. 161.  
 Chain-link, Wire. F. Egge. No. 921,380; May 11; Sp. p. 2658; Gaz. vol. 142; p. 457.  
 Chain-links, Making. J. M. Dodge. No. 925,804; June 22; Sp. p. 5702; Gaz. vol. 143; p. 988.  
 Chain-links, Manufacturing. J. M. Dodge. No. 912,982; Feb. 16; Sp. p. 4046; Gaz. vol. 139; p. 710.  
 Chain-links, Manufacturing. J. M. Dodge. No. 921,519; May 11; Sp. p. 2929; Gaz. vol. 142; p. 503.  
 Chain-machine. H. A. Staples. No. 917,903; Apr. 13; Sp. p. 1908; Gaz. vol. 141; p. 346.  
 Chain-making machine. P. H. Standish. No. 919,488; Apr. 27; Sp. p. 5454; Gaz. vol. 141; p. 938.  
 Chain-manipulating tool. J. C. Jensen. No. 939,511; Nov. 9; Sp. p. 2352; Gaz. vol. 148; p. 390.  
 Chain-manipulating tool. J. H. Shelley. No. 942,356; Dec. 7; Sp. p. 686; Gaz. vol. 149; p. 111.  
 Chain-motor. L. W. Merriam. No. 920,361; May 4; Sp. p. 550; Gaz. vol. 142; p. 88.  
 Chain, Neck-. C. T. Wittstein. No. 910,340; Jan. 19; Sp. p. 3901; Gaz. vol. 138; p. 702.  
 Chain rope. C. H. Bryan. No. 924,313; June 8; Sp. p. 2666; Gaz. vol. 143; p. 434.  
 Chain securing and releasing device. W. S. Ferguson and A. W. McMichael. No. 942,061; Dec. 7; Sp. p. 38; Gaz. vol. 149; p. 9.  
 Chain, Sprocket-. G. M. Pierson. No. 911,266; Feb. 2; Sp. p. 487; Gaz. vol. 139; p. 83.  
 Chain-stitch, Producing. J. Diem-Bentler. No. 917,420; Apr. 6; Sp. p. 925; Gaz. vol. 141; p. 161.  
 Chain-straightening mechanism. B. T. Tompkins. No. 912,208; Feb. 9; Sp. p. 2399; Gaz. vol. 139; p. 414.  
 Chain-tightener. C. H. Peterson. No. 934,348; Sept. 14; Sp. p. 2781; Gaz. vol. 146; p. 463.  
 Chain tightener and lock. F. A. Fox. No. 934,154; Sept. 14; Sp. p. 2425; Gaz. vol. 146; p. 399.  
 Chain, Tire-. F. A. Fox. No. 911,585; Feb. 9; Sp. p. 1094; Gaz. vol. 139; p. 213.  
 Chain wrench. C. E. Bonner. No. 937,917; Oct. 26; Sp. p. 4832; Gaz. vol. 147; p. 835.  
 Chains, Apparatus for molding solid-link. W. C. Herron. No. 923,521; June 1; Sp. p. 905; Gaz. vol. 143; p. 139.  
 Chains, Making. F. Sehar. No. 925,656; June 22; Sp. p. 5361; Gaz. vol. 143; p. 939.  
 Chair: See Adjustable chair; Arm-chair; Barber's chair; Camp-chair; Child's chair; Collapsible and suspensible baby-chair; Convertible chair; Dental chair; Dental or surgical chair; Desk-chair; Folding chair; Infant's high chair; Invalid chair; Invalid's chair; Joint-chair; Nursery-chair; Opera-chair; Photographic chair; Rail-chair; Reclining chair; Revolving and sliding chair; Rocker and Morris chair; Rocking-chair; Swinging-chair; Toilet-chair; Trick-chair; Wheel-chair; Window-chair.  
 Chair. W. F. Wells. No. 912,216; Feb. 9; Sp. p. 2412; Gaz. vol. 139; p. 416.  
 Chair. J. J. Sherman, Jr. No. 913,062; Feb. 23; Sp. p. 4209; Gaz. vol. 139; p. 762.  
 Chair. A. Sanders. No. 918,706; Apr. 20; Sp. p. 3641; Gaz. vol. 141; p. 645.  
 Chair. A. H. Clark. No. 920,542; May 4; Sp. p. 913; Gaz. vol. 142; p. 147.  
 Chair. J. Smith. No. 921,905; May 18; Sp. p. 3734; Gaz. vol. 142; p. 658.  
 Chair. L. P. Doering. No. 926,858; July 6; Sp. p. 326; Gaz. vol. 144; p. 52.  
 Chair. U. S. De Moulins. No. 927,717; July 13; Sp. p. 2114; Gaz. vol. 144; p. 366.  
 Chair. H. E. H. Collings. No. 928,107; July 13; Sp. p. 2898; Gaz. vol. 144; p. 494.  
 Chair. G. Baron. No. 929,272; July 27; Sp. p. 5325; Gaz. vol. 144; p. 941.  
 Chair. W. M. Clark. No. 934,285; Sept. 14; Sp. p. 2662; Gaz. vol. 146; p. 442.  
 Chair. O. S. Jennings. No. 935,306; Sept. 28; Sp. p. 4684; Gaz. vol. 146; p. 832.  
 Chair. I. Mason. No. 935,385; Sept. 28; Sp. p. 4849; Gaz. vol. 146; p. 857.  
 Chair. M. Thum. No. 938,915; Nov. 2; Sp. p. 1024; Gaz. vol. 148; p. 162.  
 Chair. C. J. Travers. No. 940,907; Nov. 23; Sp. p. 5444; Gaz. vol. 148; p. 923.  
 Chair. E. H. Milner. No. 941,160; Nov. 23; Sp. p. 5991; Gaz. vol. 148; p. 1008.  
 Chair. L. Berzon and H. Goldberg. No. 941,555; Nov. 30; Sp. p. 6845; Gaz. vol. 148; p. 1159.  
 Chair. C. L. Greilick. No. 941,919; Nov. 30; Sp. p. 7627; Gaz. vol. 148; p. 1284.  
 Chair. W. P. Lawrence. No. 942,570; Dec. 7; Sp. p. 1126; Gaz. vol. 149; p. 183.  
 Chair. J. Flindall. No. 942,724; Dec. 7; Sp. p. 1437; Gaz. vol. 149; p. 235.  
 Chair and couch, Combination. J. Flindall. No. 942,817; Dec. 7; Sp. p. 1614; Gaz. vol. 149; p. 265.  
 Chair and couch, Combined. C. L. Pudrith. No. 935,861; Oct. 5; Sp. p. 564; Gaz. vol. 147; p. 81.  
 Chair and ironing-board, Combination. J. L. Hufft. No. 937,701; Oct. 19; Sp. p. 4376; Gaz. vol. 147; p. 744.  
 Chair and other article of furniture. I. Karpén. No. 924,239; June 8; Sp. p. 2510; Gaz. vol. 143; p. 408.  
 Chair and shoe-polishing cabinet, Combined. A. Soderling. No. 911,082; Feb. 2; Sp. p. 116; Gaz. vol. 139; p. 22.  
 Chair and stand, Combined drying. L. Schreiber. No. 913,310; Feb. 23; Sp. p. 4721; Gaz. vol. 139; p. 846.  
 Chair and stool. L. E. Hubert. No. 923,267; June 1; Sp. p. 323; Gaz. vol. 143; p. 51.  
 Chair and table combined. H. C. Towne. No. 916,631; Mar. 30; Sp. p. 6050; Gaz. vol. 140; p. 1085.  
 Chair attachment. D. S. Curtiss. No. 918,737; Apr. 20; Sp. p. 3699; Gaz. vol. 141; p. 656.  
 Chair attachment. A. V. and W. H. Jackson. No. 924,554; June 8; Sp. p. 3134; Gaz. vol. 143; p. 511.  
 Chair attachment. M. A. McClelland. No. 936,017; Oct. 5; Sp. p. 880; Gaz. vol. 147; p. 133.  
 Chair attachment. F. Schulz. No. 938,172; Oct. 26; Sp. p. 5392; Gaz. vol. 147; p. 921.  
 Chair attachment. A. V. and W. H. Jackson. No. 939,841; Nov. 9; Sp. p. 3059; Gaz. vol. 148; p. 505.  
 Chair attachment. C. P. Ingersoll. No. 944,331; Dec. 28; Sp. p. 4925; Gaz. vol. 149; p. 868.  
 Chair attachment, Barber-. T. G. Aitken. No. 938,937; Nov. 2; Sp. p. 1070; Gaz. vol. 148; p. 170.  
 Chair attachment, Barber-. B. S. Mead. No. 937,625; Oct. 19; Sp. p. 4226; Gaz. vol. 147; p. 720.  
 Chair attachment, Rocking-. N. Evans. No. 920,298; May 4; Sp. p. 442; Gaz. vol. 142; p. 68.  
 Chair-coupling. G. E. Linder. No. 942,085; Dec. 7; Sp. p. 107; Gaz. vol. 149; p. 17.  
 Chair detachable book-rest. T. E. Vickers and A. L. Henry. No. 939,764; Nov. 9; Sp. p. 2919; Gaz. vol. 148; p. 479.  
 Chair extension-arm. F. E. Payne and M. M. House. No. 939,623; Nov. 9; Sp. p. 2605; Gaz. vol. 148; p. 429.  
 Chair fan attachment. L. Hildreth. No. 940,688; Nov. 23; Sp. p. 4979; Gaz. vol. 148; p. 850.  
 Chair fan, Rocking-. J. Dauster. No. 910,915; Jan. 26; Sp. p. 5069; Gaz. vol. 138; p. 913.  
 Chair head-rest, Barber-. A. L. Undeland. No. 942,603; Dec. 7; Sp. p. 1191; Gaz. vol. 149; p. 194.  
 Chair-iron. H. W. Bolens. No. 908,730; Jan. 5; Sp. p. 641; Gaz. vol. 138; p. 99.  
 Chair-iron. H. W. Bolens. No. 940,232; Nov. 16; Sp. p. 3949; Gaz. vol. 148; p. 672.  
 Chair-iron. H. W. Bolens. No. 942,432; Dec. 7; Sp. p. 827; Gaz. vol. 149; p. 136.  
 Chair reclining attachment. F. E. Barnickle. No. 912,354; Feb. 16; Sp. p. 2751; Gaz. vol. 139; p. 501.  
 Chair-rocker. G. M. Stratton. No. 927,898; July 13; Sp. p. 2498; Gaz. vol. 144; p. 426.  
 Chair safety device, Child's-. B. W. De Camp. No. 944,020; Dec. 21; Sp. p. 4285; Gaz. vol. 149; p. 738.  
 Chair-seat. A. Wanner, Jr. No. 938,730; Nov. 2; Sp. p. 607; Gaz. vol. 148; p. 96.  
 Chair seat, Infant's portable high-. F. L. Riddle. No. 923,078; May 25; Sp. p. 6152; Gaz. vol. 142; p. 1067.  
 Chair-strap for holding babies. M. L. Carrington. No. 928,305; July 20; Sp. p. 3372; Gaz. vol. 144; p. 593.  
 Chair tilting device. M. E. Stockwell. No. 912,505; Feb. 16; Sp. p. 3049; Gaz. vol. 139; p. 551.  
 Chair with adjustable seat. J. A. Wilkinson. No. 916,080; Mar. 23; Sp. p. 4953; Gaz. vol. 140; p. 878.  
 Chairs, Adjustable foot-rest for Morris. C. L. Greilick. No. 939,827; Nov. 9; Sp. p. 3035; Gaz. vol. 148; p. 500.  
 Chairs and vehicles, Infant-holding strap for. E. F. Rose. No. 919,774; Apr. 27; Sp. p. 6016; Gaz. vol. 141; p. 1034.



*Alphabetical list of inventions—Continued.*

- Chairs, Binding means for. A. G. Walter. No. 940,759; Nov. 23; Sp. p. 5140; Gaz. vol. 148; p. 874.
- Chalice. G. Valley. No. 939,960; Nov. 9; Sp. p. 3319; Gaz. vol. 148; p. 547.
- Chalk-holder. C. V. Norman and G. Peterson. No. 939,156; Nov. 2; Sp. p. 1512; Gaz. vol. 148; p. 245.
- Chalk-line holder. J. G. Hall. No. 927,790; July 13; Sp. p. 2263; Gaz. vol. 144; p. 390.
- Chamfering and countersinking machine. C. F. Messinger. No. 912,250; Feb. 9; Sp. p. 2480; Gaz. vol. 139; p. 427.
- Chance-controlled indicator. W. G. and O. S. Lamb. No. 934,550; Sept. 21; Sp. p. 3171; Gaz. vol. 146; p. 553.
- Chance device. A. N. Gitterman. No. 933,429; Sept. 7; Sp. p. 879; Gaz. vol. 146; p. 137.
- Chandelier. O. Dodge and S. G. Camp. No. 921,520; May 11; Sp. p. 2930; Gaz. vol. 142; p. 503.
- Chandelier. L. B. Hornbeck. No. 943,148; Dec. 14; Sp. p. 2419; Gaz. vol. 149; p. 411.
- Chandelier attachment. G. J. Murphy. No. 927,745; July 13; Sp. p. 2162; Gaz. vol. 144; p. 375.
- Chandelier, Gas-. G. E. Kaschub. No. 923,433; June 1; Sp. p. 722; Gaz. vol. 143; p. 107.
- Chandelier-hook. C. M. Pitel. No. 913,977; Mar. 2; Sp. p. 691; Gaz. vol. 140; p. 108.
- Chandelier-stem. G. M. Beardslee. No. 937,407; Oct. 19; Sp. p. 3785; Gaz. vol. 147; p. 646.
- Chandelier-support, Hollow-chain. L. P. Dickey. No. 925,309; June 15; Sp. p. 4672; Gaz. vol. 143; p. 797.
- Change-delivering means. E. B. Gallaher. (Reissue.) No. 12,913; Jan. 26; Sp. p. 5272; Gaz. vol. 138; p. 948.
- Change-delivery device. D. M. Fowler. No. 921,219; May 11; Sp. p. 2300; Gaz. vol. 142; p. 404.
- Change-making machine. L. J. Dittmar. No. 920,281; May 4; Sp. p. 415; Gaz. vol. 142; p. 63.
- Channel-bars with taperless flanges, Making. H. Sack. No. 939,171; Nov. 2; Sp. p. 1546; Gaz. vol. 148; p. 250.
- Channel-flap layer. T. F. English. No. 933,297; Sept. 7; Sp. p. 603; Gaz. vol. 146; p. 93.
- Channeling and grooving knife. B. F. Mayo. No. 911,512; Feb. 2; Sp. p. 928; Gaz. vol. 139; p. 162.
- Channeling-machine. W. Prellwitz. No. 916,013; Mar. 23; Sp. p. 4835; Gaz. vol. 140; p. 335.
- Channeling-machine. W. B. Butler. No. 925,287; June 15; Sp. p. 4626; Gaz. vol. 143; p. 791.
- Channeling-machine. A. H. Gibson. No. 944,672; Dec. 28; Sp. p. 5686; Gaz. vol. 149; p. 986.
- Chaplet. W. J. McCarroll. No. 930,080; Aug. 3; Sp. p. 960; Gaz. vol. 145; p. 156.
- Chaplet-riveting machine. V. Davis. No. 942,618; Dec. 7; Sp. p. 1222; Gaz. vol. 149; p. 200.
- Character-bars, Making. D. W. Dodson. No. 911,955; Feb. 9; Sp. p. 1858; Gaz. vol. 139; p. 335.
- Character-bars, Making. D. W. Dodson. No. 911,958; Feb. 9; Sp. p. 1899; Gaz. vol. 139; p. 336.
- Character-forming machine. D. W. Dodson. No. 911,954; Feb. 9; Sp. p. 1823; Gaz. vol. 139; p. 334.
- Character-forming machine. D. W. Dodson. No. 911,957; Feb. 9; Sp. p. 1871; Gaz. vol. 139; p. 335.
- Characters on sheet material, Machine for impressing. C. B. Stilwell. No. 931,158; Aug. 17; Sp. p. 3242; Gaz. vol. 145; p. 565.
- Charging apparatus. P. H. Douglas and I. D. Thomas. No. 937,144; Oct. 19; Sp. p. 3208; Gaz. vol. 147; p. 561.
- Charging the retorts of zinc and other analogous furnaces. E. Dor-Delattre. No. 914,339; Mar. 2; Sp. p. 1448; Gaz. vol. 140; p. 225.
- Charm and trimming. E. S. Goddard. No. 937,932; Oct. 26; Sp. p. 4865; Gaz. vol. 147; p. 840.
- Chart. J. G. Stites and F. G. Yates. No. 911,083; Feb. 2; Sp. p. 117; Gaz. vol. 139; p. 22.
- Chart, Adjustable. F. D. Webster. No. 943,130; Dec. 14; Sp. p. 2378; Gaz. vol. 149; p. 404.
- Check and seal, Combined. W. E. Elliott. No. 942,314; Dec. 7; Sp. p. 611; Gaz. vol. 149; p. 97.
- Check, Barber's account-. J. Church. No. 939,979; Nov. 16; Sp. p. 3377; Gaz. vol. 148; p. 582.
- Check-bit. T. Tippit. No. 933,864; Sept. 14; Sp. p. 1842; Gaz. vol. 146; p. 304.
- Chart, Chronological. B. Volkmar. No. 915,254; Mar. 16; Sp. p. 3312; Gaz. vol. 140; p. 579.
- Chart, Color-. H. G. Maratta. No. 918,068; Apr. 13; Sp. p. 2255; Gaz. vol. 141; p. 405.
- Chart, Color-. G. F. Crosby. No. 924,322; June 8; Sp. p. 2681; Gaz. vol. 143; p. 436.
- Check, Combination fluid and vacuum. H. T. Case. No. 942,887; Dec. 14; Sp. p. 1819; Gaz. vol. 149; p. 321.
- Check-controlled apparatus. C. E. Morris. No. 914,596; Mar. 9; Sp. p. 1974; Gaz. vol. 140; p. 337.
- Check-controlled mechanism. F. C. Kainer. No. 941,716; Nov. 30; Sp. p. 7196; Gaz. vol. 148; p. 1213.
- Chart, Dress-. J. A. Johnson. No. 910,203; Jan. 19; Sp. p. 3587; Gaz. vol. 138; p. 651.
- Chart for dressmaking, Adjustable. R. A. Terry. No. 931,896; Aug. 24; Sp. p. 4801; Gaz. vol. 145; p. 829.
- Chart-suspension device. C. S. Jenkins. No. 929,672; Aug. 3; Sp. p. 57; Gaz. vol. 145; p. 12.
- Chart, Tailor's cutting-. M. F. Maloney. No. 913,408; Feb. 23; Sp. p. 4904; Gaz. vol. 139; p. 880.
- Chasing-mill working in looped paths. G. Eirich. No. 931,585; Aug. 17; Sp. p. 4108; Gaz. vol. 145; p. 707.
- Check, Baggage, &c. T. G. Portmore. No. 922,948; May 25; Sp. p. 5893; Gaz. vol. 142; p. 1026.
- Check-canceling box, Waiter's. J. T. Hicks. No. 909,088; Jan. 5; Sp. p. 1343; Gaz. vol. 138; p. 215.
- Check-chute guard and check. M. Mendelsohn. No. 912,591; Feb. 16; Sp. p. 3241; Gaz. vol. 139; p. 581.
- Check-controlled device. K. B. Miller. No. 912,397; Feb. 16; Sp. p. 2843; Gaz. vol. 139; p. 516.
- Check-controlled game apparatus. J. Graves. No. 912,239; Feb. 9; Sp. p. 2454; Gaz. vol. 139; p. 423.
- Check device, Manifolding sales-. E. Z. Lewis. No. 929,959; Aug. 3; Sp. p. 714; Gaz. vol. 145; p. 114.
- Check-holder. J. Grieve. No. 910,126; Jan. 19; Sp. p. 3410; Gaz. vol. 138; p. 625.
- Check-holder. S. Liebman. No. 917,623; Apr. 6; Sp. p. 1284; Gaz. vol. 141; p. 227.
- Check-holder. W. B. Hildenbrand. No. 917,864; Apr. 13; Sp. p. 1815; Gaz. vol. 141; p. 332.
- Check-holder. W. O. Roberts. No. 933,668; Sept. 7; Sp. p. 1433; Gaz. vol. 146; p. 215.
- Check holder, Sales-. C. T. Raschick. No. 943,785; Dec. 21; Sp. p. 3774; Gaz. vol. 149; p. 657.
- Check holder, Transportation-. W. H. Carroll. No. 927,710; July 13; Sp. p. 2097; Gaz. vol. 144; p. 364.
- Check hook and loop. O. B. Read. No. 929,014; July 27; Sp. p. 4786; Gaz. vol. 144; p. 855.
- Check-lock. C. W. Cropp. No. 925,302; June 15; Sp. p. 4661; Gaz. vol. 143; p. 796.
- Check, Manifolding sales-. F. Thomas. No. 937,658; Oct. 19; Sp. p. 4275; Gaz. vol. 147; p. 730.
- Check-marking apparatus. C. H. Marston and H. H. Cummings. No. 913,299; Feb. 23; Sp. p. 4686; Gaz. vol. 139; p. 841.
- Check-receiving and sales-indicating machine. J. F. Lynch. No. 930,872; Aug. 10; Sp. p. 2564; Gaz. vol. 145; p. 442.
- Check-receptacle. C. Boulard. No. 931,260; Aug. 17; Sp. p. 3460; Gaz. vol. 145; p. 600.
- Check, Recoil-. F. J. Mellen and B. A. Edwards. No. 924,913; June 15; Sp. p. 3905; Gaz. vol. 143; p. 666.
- Check-selecting mechanism. C. H. Hamilton. No. 930,544; Aug. 10; Sp. p. 1895; Gaz. vol. 145; p. 335.
- Checking and controlling machine. M. Kuhn. No. 924,245; June 8; Sp. p. 2522; Gaz. vol. 143; p. 410.
- Checking and unchecking device. A. R. Ward. No. 911,857; Feb. 9; Sp. p. 1624; Gaz. vol. 139; p. 301.
- Checkrein. J. S. Mirgan. No. 940,886; Nov. 23; Sp. p. 5405; Gaz. vol. 148; p. 916.
- Checkrein-holder. R. E. King. No. 923,276; June 1; Sp. p. 388; Gaz. vol. 143; p. 54.
- Cheese, &c., Apparatus for determining the amount of moisture in. J. W. Mitchell and W. O. Walker. No. 920,773; May 4; Sp. p. 1369; Gaz. vol. 142; p. 222.
- Cheese-cover. T. A. Thompson. No. 926,304; June 29; Sp. p. 6738; Gaz. vol. 143; p. 1188.
- Cheese-cutter. W. A. McElney. No. 908,878; Jan. 5; Sp. p. 923; Gaz. vol. 138; p. 147.
- Cheese-cutter. C. M. Wright. No. 910,442; Jan. 19; Sp. p. 4109; Gaz. vol. 138; p. 736.
- Cheese-cutter. C. M. Wright. No. 910,443; Jan. 19; Sp. p. 4112; Gaz. vol. 138; p. 737.
- Cheese-cutter. J. Smith. No. 915,234; Mar. 16; Sp. p. 3270; Gaz. vol. 140; p. 572.
- Cheese-cutter. M. Huggins and E. L. Graham. No. 917,073; Apr. 6; Sp. p. 219; Gaz. vol. 141; p. 41.
- Cheese-cutter. J. Purcell. No. 922,039; May 18; Sp. p. 4013; Gaz. vol. 142; p. 701.
- Cheese-cutter. L. J. Kunick. No. 922,156; May 18; Sp. p. 4232; Gaz. vol. 142; p. 739.
- Cheese-cutter. A. De Vilbiss, Jr. No. 932,540; Aug. 31; Sp. p. 6151; Gaz. vol. 145; p. 1067.
- Cheese-cutter. O. O. Ozias. No. 934,208; Sept. 14; Sp. p. 2521; Gaz. vol. 146; p. 416.
- Cheese-cutting apparatus. L. J. Kunick. No. 933,063; Oct. 26; Sp. p. 5146; Gaz. vol. 147; p. 884.
- Cheese-holding board. C. P. Mee. No. 911,145; Feb. 2; Sp. p. 244; Gaz. vol. 139; p. 43.
- Cheese-hoop. C. S. Brown and A. S. Brinkerhoff. No. 929,384; July 27; Sp. p. 5588; Gaz. vol. 144; p. 980.
- Cheese-manufacturing apparatus. J. Brenske. No. 933,056; Sept. 7; Sp. p. 32; Gaz. vol. 146; p. 7.
- Cheese-protector. F. J. Lindsay. No. 925,489; June 22; Sp. p. 5007; Gaz. vol. 143; p. 884.
- Chemical-closet. W. O. Shearer. No. 944,001; Dec. 21; Sp. p. 4244; Gaz. vol. 149; p. 731.
- Chemical compounds, Manufacturing. C. F. Carrier, Jr. No. 910,498; Jan. 26; Sp. p. 4239; Gaz. vol. 138; p. 779.
- Chemical-reaction furnace. J. L. Tufts. No. 930,441; Aug. 10; Sp. p. 1647; Gaz. vol. 145; p. 298.
- Chemille-strip-manufacturing mechanism. W. P. Zimmerman. No. 931,365; Aug. 17; Sp. p. 3690; Gaz. vol. 145; p. 638.
- Cherry-pitter. W. J. Mack. No. 911,823; Feb. 9; Sp. p. 1574; Gaz. vol. 139; p. 293.
- Cherry-pitter. F. E. Greene. No. 944,089; Dec. 21; Sp. p. 4418; Gaz. vol. 149; p. 761.
- Cherry-pitter. J. D. Houck. No. 944,866; Dec. 28; Sp. p. 6122; Gaz. vol. 149; p. 1052.
- Chicken-picking device. D. A. Bainter and J. J. Berling. No. 908,933; Jan. 5; Sp. p. 1029; Gaz. vol. 137; p. 165.
- Chicken-separator. E. Hill. No. 942,902; Dec. 14; Sp. p. 1851; Gaz. vol. 149; p. 326.
- Chickens, &c., Device for seizing and holding. A. T. Upton. No. 918,613; Apr. 20; Sp. p. 3379; Gaz. vol. 141; p. 612.
- Child's back-rest. L. F. Pullman. No. 909,453; Jan. 12; Sp. p. 2061; Gaz. vol. 138; p. 367.
- Child's chair. J. E. Wallace. No. 936,685; Oct. 12; Sp. p. 2291; Gaz. vol. 147; p. 380.

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- Child's seat. L. Scott. No. 937,650; Oct. 19; Sp. p. 4265; Gaz. vol. 147; p. 728.  
 Chilian mill. W. B. Easton. No. 931,186; Aug. 17; Sp. p. 3297; Gaz. vol. 145; p. 574.  
 Chill-mold. A. E. Harrison. No. 924,612; June 8; Sp. p. 3265; Gaz. vol. 143; p. 532.  
 Chilling-machine. N. H. Hiller. No. 922,898; May 25; Sp. p. 5791; Gaz. vol. 142; p. 1010.  
 Chime, Electric. J. E. Scovill. No. 940,483; Nov. 16; Sp. p. 4527; Gaz. vol. 148; p. 757.  
 Chime-whistle. J. Donath. No. 913,707; Mar. 2; Sp. p. 59; Gaz. vol. 140; p. 12.  
 Chimney. M. E. Howe. No. 909,412; Jan. 12; Sp. p. 1980; Gaz. vol. 138; p. 353.  
 Chimney. N. B. Dieterich. No. 919,550; Apr. 27; Sp. p. 5577; Gaz. vol. 141; p. 958.  
 Chimney. E. Banzhaf. No. 925,980; June 22; Sp. p. 6050; Gaz. vol. 143; p. 1046.  
 Chimney and mantle holder, Combined. W. S. Stapley. No. 919,652; Apr. 27; Sp. p. 5780; Gaz. vol. 141; p. 994.  
 Chimney attachment. C. Galitz. No. 914,134; Mar. 2; Sp. p. 1026; Gaz. vol. 140; p. 162.  
 Chimney-cap. T. Martin. No. 935,213; Sept. 28; Sp. p. 4505; Gaz. vol. 146; p. 801.  
 Chimney-cap, Adjustable. G. H. Kramer. No. 912,578; Feb. 16; Sp. p. 3223; Gaz. vol. 139; p. 578.  
 Chimney-cap and ventilator. R. T. Merrill. No. 915,871; Mar. 23; Sp. p. 4561; Gaz. vol. 140; p. 810.  
 Chimney-cleaner. G. S. Stuart. No. 922,353; May 18; Sp. p. 4613; Gaz. vol. 142; p. 802.  
 Chimney, Concrete. I. B. Spaulding. No. 915,123; Mar. 16; Sp. p. 3041; Gaz. vol. 140; p. 536.  
 Chimney-cowl. J. T. Proffitt. No. 927,072; July 6; Sp. p. 788; Gaz. vol. 144; p. 125.  
 Chimney-cowl or ventilator. J. Marcus. No. 944,043; Dec. 21; Sp. p. 4326; Gaz. vol. 149; p. 745.  
 Chimney-hood, Adjustable. S. Neiburger. No. 920,621; May 4; Sp. p. 1066; Gaz. vol. 142; p. 173.  
 Chimney-pot. T. B. Cullen. No. 909,159; Jan. 12; Sp. p. 1506; Gaz. vol. 138; p. 273.  
 Chimney-top. E. J. Cochran. No. 912,076; Feb. 9; Sp. p. 2163; Gaz. vol. 139; p. 374.  
 Chimney-top. R. E. Mulcahy. No. 916,474; Mar. 30; Sp. p. 5727; Gaz. vol. 140; p. 1033.  
 Chimney-tops, Smoke-stack base for. J. W. Tinstman. No. 933,275; Sept. 7; Sp. p. 565; Gaz. vol. 146; p. 86.  
 Chimney, Ventilating. J. M. McIntosh. No. 940,348; Nov. 16; Sp. p. 4220; Gaz. vol. 148; p. 711.  
 Chimney-ventilator. P. Bloom. No. 933,051; Sept. 7; Sp. p. 18; Gaz. vol. 146; p. 5.  
 China, &c., Apparatus for casting hollow and other ware of. W. Stubbs. No. 934,231; Sept. 14; Sp. p. 2566; Gaz. vol. 146; p. 424.  
 Chlorin, Apparatus for utilizing. J. W. Aylsworth. No. 914,224; Mar. 2; Sp. p. 1210; Gaz. vol. 140; p. 189.  
 Chlorin, Separating and concentrating. K. Goldschmidt and F. Spitzer. No. 934,400; Sept. 14; Sp. p. 2881; Gaz. vol. 146; p. 482.  
 Chlorinated compound and making same. J. W. Aylsworth. No. 914,223; Mar. 2; Sp. p. 1265; Gaz. vol. 140; p. 189.  
 Chloroform in solid condition, Preparation of. C. L. Schleich. No. 925,658; June 22; Sp. p. 5362; Gaz. vol. 143; p. 939.  
 Chocolate-composition coatings, Heating and storage system for. C. J. Dionne. No. 943,239; Dec. 14; Sp. p. 2597; Gaz. vol. 149; p. 439.  
 Chocolate confections, Machine for the manufacture of. A. H. Savvy. No. 941,537; Nov. 30; Sp. p. 6814; Gaz. vol. 148; p. 1153.  
 Chopper. See Brush-chopper; Cotton-chopper; Food-chopper.  
 Chopping-knife. S. L. Bates. No. 935,576; Sept. 28; Sp. p. 5252; Gaz. vol. 146; p. 921.  
 Christmas-tree holder. W. A. Mitchell. No. 909,634; Jan. 12; Sp. p. 2425; Gaz. vol. 138; p. 430.  
 Christmas-tree holder. C. E. Singleton. No. 923,206; June 1; Sp. p. 182; Gaz. vol. 143; p. 30.  
 Christmas-tree holder. H. A. Bailey. No. 934,424; Sept. 21; Sp. p. 2940; Gaz. vol. 146; p. 513.  
 Chronometric baby-tender. S. F. Wilson and W. L. Field. No. 910,888; Jan. 26; Sp. p. 5021; Gaz. vol. 138; p. 905.  
 Chuck. A. I. Jacobs. No. 911,012; Jan. 26; Sp. p. 5245; Gaz. vol. 138; p. 945.  
 Chuck. E. Cook. No. 912,448; Feb. 16; Sp. p. 2935; Gaz. vol. 139; p. 532.  
 Chuck. J. A. Leland. No. 912,582; Feb. 16; Sp. p. 3228; Gaz. vol. 139; p. 579.  
 Chuck. E. S. Savage. No. 913,059; Feb. 23; Sp. p. 4205; Gaz. vol. 139; p. 761.  
 Chuck. T. J. Fegley. No. 917,033; Apr. 6; Sp. p. 146; Gaz. vol. 141; p. 28.  
 Chuck. F. Lövenich. No. 917,087; Apr. 6; Sp. p. 254; Gaz. vol. 141; p. 46.  
 Chuck. L. A. Carter. No. 919,536; Apr. 27; Sp. p. 5546; Gaz. vol. 141; p. 953.  
 Chuck. H. P. Townsend. No. 921,568; May 11; Sp. p. 3016; Gaz. vol. 142; p. 518.  
 Chuck. H. L. Davison and E. D. Yorty. No. 928,111; July 13; Sp. p. 2905; Gaz. vol. 144; p. 496.  
 Chuck. A. P. Kern. No. 930,075; Aug. 3; Sp. p. 952; Gaz. vol. 145; p. 154.  
 Chuck. C. E. Brooks. No. 930,147; Aug. 3; Sp. p. 1111; Gaz. vol. 145; p. 180.  
 Chuck. T. J. Fegley and G. O. Leopold. No. 932,259; Aug. 24; Sp. p. 5582; Gaz. vol. 145; p. 951.  
 Chuck. H. S. Johnson. No. 932,709; Aug. 31; Sp. p. 6524; Gaz. vol. 145; p. 1124.  
 Chuck. A. A. North. No. 932,996; Aug. 31; Sp. p. 7077; Gaz. vol. 145; p. 1217.  
 Chuck. R. C. Helman. No. 933,071; Sept. 7; Sp. p. 67; Gaz. vol. 146; p. 11.  
 Chuck. A. I. Jacobs. No. 933,179; Sept. 7; Sp. p. 308; Gaz. vol. 146; p. 51.  
 Chuck. W. G. Sanborn. No. 933,928; Sept. 14; Sp. p. 1960; Gaz. vol. 146; p. 323.  
 Chuck. J. A. Leland. No. 936,644; Oct. 12; Sp. p. 2209; Gaz. vol. 147; p. 365.  
 Chuck. S. T. Lewis. No. 938,390; Oct. 26; Sp. p. 5871; Gaz. vol. 147; p. 996.  
 Chuck. W. B. Pearson and E. R. Seward. No. 939,304; Nov. 9; Sp. p. 1891; Gaz. vol. 148; p. 322.  
 Chuck. L. W. Holub. No. 943,616; Dec. 14; Sp. p. 3418; Gaz. vol. 149; p. 570.  
 Chuck, Adjustable angle. F. L. Crouse. No. 927,493; July 13; Sp. p. 1619; Gaz. vol. 144; p. 291.  
 Chuck and driving-dog, Combined. D. Fisher. No. 918,031; Apr. 13; Sp. p. 2187; Gaz. vol. 141; p. 392.  
 Chuck and tool-holder, Reversing. M. N. Jarvis. No. 943,414; Dec. 14; Sp. p. 2959; Gaz. vol. 149; p. 499.  
 Chuck, Automatic. H. O. Evans. No. 938,996; Nov. 2; Sp. p. 1183; Gaz. vol. 148; p. 189.  
 Chuck, Automatic nipple. M. C. Seren. No. 912,421; Feb. 16; Sp. p. 2887; Gaz. vol. 139; p. 523.  
 Chuck, Drill-. G. Garretson. No. 923,041; May 25; Sp. p. 6065; Gaz. vol. 142; p. 1056.  
 Chuck, Drill-. C. W. Manzel. No. 931,327; Aug. 17; Sp. p. 3615; Gaz. vol. 145; p. 623.  
 Chuck, Drill-. J. Bradley. No. 933,741; Sept. 14; Sp. p. 1609; Gaz. vol. 146; p. 265.  
 Chuck, Drill-. H. N. Kennedy. No. 938,589; Nov. 2; Sp. p. 337; Gaz. vol. 148; p. 50.  
 Chuck, Drill-. C. F. Schultis. No. 939,102; Nov. 2; Sp. p. 1381; Gaz. vol. 148; p. 225.  
 Chuck, Drill-. P. Steiner. No. 942,417; Dec. 7; Sp. p. 801; Gaz. vol. 149; p. 130.  
 Chuck for grinding stem-ware. A. B. Knight. No. 936,912; Oct. 12; Sp. p. 2731; Gaz. vol. 147; p. 456.  
 Chuck for high-speed drills. J. O. Reynolds. No. 928,700; July 20; Sp. p. 4150; Gaz. vol. 144; p. 723.  
 Chuck-jaw. O. Parpart. No. 926,073; June 22; Sp. p. 6250; Gaz. vol. 143; p. 1077.  
 Chuck, Lathe-. J. G. Oliver. No. 926,761; July 6; Sp. p. 111; Gaz. vol. 144; p. 18.  
 Chuck, Lathe and drilling. W. Kleber. No. 938,873; Nov. 2; Sp. p. 921; Gaz. vol. 148; p. 145.  
 Chuck, Nipple-. M. C. Seren. No. 912,420; Feb. 16; Sp. p. 2886; Gaz. vol. 139; p. 523.  
 Chuck, Release, Lathe-. W. L. White. No. 931,167; Aug. 17; Sp. p. 3262; Gaz. vol. 145; p. 568.  
 Chuck, Rivel-holding. D. C. Sassaman and C. Dalin. No. 909,231; Jan. 12; Sp. p. 1641; Gaz. vol. 138; p. 295.  
 Chuck, Rock-drill. E. E. McKinney, Jr. No. 922,716; May 25; Sp. p. 5395; Gaz. vol. 142; p. 951.  
 Chuck, Self-centering. B. Bomborn and A. Hoffmann. No. 942,304; Dec. 7; Sp. p. 585; Gaz. vol. 149; p. 93.  
 Chuck, Self-tightening rock-drill. J. A. Thompson, E. M. Mackie, and P. F. Doyle. No. 920,788; May 4; Sp. p. 1409; Gaz. vol. 142; p. 228.  
 Chuck, Spiral. G. B. Taylor. No. 923,730; June 1; Sp. p. 1354; Gaz. vol. 143; p. 211.  
 Chuck, Sub-. C. E. Brooks. No. 930,146; Aug. 3; Sp. p. 1109; Gaz. vol. 145; p. 179.  
 Chuck, Tool-. J. P. Bartholomew. No. 927,478; July 13; Sp. p. 1589; Gaz. vol. 144; p. 286.  
 Churn. I. Bauer and C. Brown. No. 908,729; Jan. 5; Sp. p. 640; Gaz. vol. 138; p. 99.  
 Churn. R. Moody. No. 908,796; Jan. 5; Sp. p. 759; Gaz. vol. 138; p. 120.  
 Churn. W. W. Bland. No. 909,054; Jan. 5; Sp. p. 1268; Gaz. vol. 138; p. 203.  
 Churn. W. Brookette. No. 912,279; Feb. 16; Sp. p. 2585; Gaz. vol. 139; p. 476.  
 Churn. H. Johnson. No. 912,852; Feb. 16; Sp. p. 3802; Gaz. vol. 139; p. 669.  
 Churn. W. J. Snow. No. 913,573; Feb. 23; Sp. p. 5280; Gaz. vol. 139; p. 935.  
 Churn. F. W. Cooper. No. 913,621; Feb. 23; Sp. p. 5380; Gaz. vol. 139; p. 951.  
 Churn. L. C. Lewis. No. 913,742; Mar. 2; Sp. p. 137; Gaz. vol. 140; p. 24.  
 Churn. L. A. Smith. No. 913,778; Mar. 2; Sp. p. 214; Gaz. vol. 140; p. 36.  
 Churn. C. S. McCalman. No. 913,838; Mar. 2; Sp. p. 337; Gaz. vol. 140; p. 57.  
 Churn. R. E. Sharp. No. 913,986; Mar. 2; Sp. p. 706; Gaz. vol. 140; p. 111.  
 Churn. F. E. Starg. No. 914,986; Mar. 9; Sp. p. 2746; Gaz. vol. 140; p. 463.  
 Churn. J. B. Mellinger. No. 916,349; Mar. 23; Sp. p. 5444; Gaz. vol. 140; p. 967.  
 Churn. R. B. Collier and J. S. Martin. No. 916,845; Mar. 30; Sp. p. 6438; Gaz. vol. 140; p. 1149.  
 Churn. J. E. Usher. No. 917,978; Apr. 13; Sp. p. 2061; Gaz. vol. 141; p. 373.  
 Churn. R. F. Corneil. No. 918,659; Apr. 20; Sp. p. 3519; Gaz. vol. 141; p. 628.  
 Churn. W. L. Prati. No. 920,645; May 4; Sp. p. 1112; Gaz. vol. 142; p. 181.  
 Churn. L. C. Lewis. No. 921,851; May 18; Sp. p. 3640; Gaz. vol. 142; p. 641.



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 Churn. J. R. Holder. No. 922,699; May 25; Sp. p. 5363; Gaz. vol. 142; p. 946.  
 Churn. F. A. Miller. No. 922,796; May 25; Sp. p. 5557; Gaz. vol. 142; p. 976.  
 Churn. A. Griggs. No. 923,644; June 1; Sp. p. 1182; Gaz. vol. 143; p. 182.  
 Churn. G. A. Hill. No. 924,461; June 8; Sp. p. 2941; Gaz. vol. 143; p. 481.  
 Churn. C. S. McCalman. No. 925,015; June 15; Sp. p. 4121; Gaz. vol. 143; p. 701.  
 Churn. E. E. Rippey. No. 925,652; June 22; Sp. p. 5354; Gaz. vol. 143; p. 937.  
 Churn. O. J. Neal and H. B. Gillette. No. 926,760; July 6; Sp. p. 1110; Gaz. vol. 144; p. 18.  
 Churn. O. G. Klein. No. 927,358; July 6; Sp. p. 1313; Gaz. vol. 144; p. 218.  
 Churn. E. J. Smith. No. 929,038; July 27; Sp. p. 4829; Gaz. vol. 144; p. 863.  
 Churn. V. S. Klick. No. 929,229; July 27; Sp. p. 5231; Gaz. vol. 144; p. 926.  
 Churn. J. F. Torbett. No. 929,900; Aug. 3; Sp. p. 602; Gaz. vol. 145; p. 94.  
 Churn. H. F. Dorsey. No. 930,942; Aug. 10; Sp. p. 2717; Gaz. vol. 145; p. 465.  
 Churn. M. V. Dudley. No. 931,583; Aug. 17; Sp. p. 4104; Gaz. vol. 145; p. 707.  
 Churn. J. S. Harris. No. 932,274; Aug. 24; Sp. p. 5611; Gaz. vol. 145; p. 957.  
 Churn. S. Etter. No. 932,455; Aug. 31; Sp. p. 5958; Gaz. vol. 145; p. 1039.  
 Churn. J. T. Armstrong. No. 933,948; Sept. 14; Sp. p. 2006; Gaz. vol. 146; p. 330.  
 Churn. C. M. Long. No. 935,377; Sept. 28; Sp. p. 4832; Gaz. vol. 146; p. 855.  
 Churn. E. A. Franklin. No. 935,902; Oct. 5; Sp. p. 648; Gaz. vol. 147; p. 94.  
 Churn. J. L. Arnold. No. 936,400; Oct. 12; Sp. p. 1671; Gaz. vol. 147; p. 283.  
 Churn. J. Middlebrook. No. 936,921; Oct. 12; Sp. p. 2744; Gaz. vol. 147; p. 459.  
 Churn. O. D. Welds. No. 940,099; Nov. 16; Sp. p. 3672; Gaz. vol. 148; p. 625.  
 Churn. F. A. Grant. No. 941,318; Nov. 23; Sp. p. 6331; Gaz. vol. 148; p. 1058.  
 Churn. D. Rees. No. 941,948; Nov. 30; Sp. p. 7679; Gaz. vol. 148; p. 1294.  
 Churn. F. Peter. No. 943,200; Dec. 14; Sp. p. 2513; Gaz. vol. 149; p. 426.  
 Churn. T. H. Chapplear. No. 944,014; Dec. 21; Sp. p. 4275; Gaz. vol. 149; p. 736.  
 Churn. E. E. Floyd. No. 944,129; Dec. 21; Sp. p. 4514; Gaz. vol. 149; p. 775.  
 Churn and butter-worker, Combined. D. A. Sprague. No. 937,725; Oct. 19; Sp. p. 4428; Gaz. vol. 147; p. 751.  
 Churn and ice-cream freezer, Combined. W. A. Jones. No. 939,512; Nov. 9; Sp. p. 2353; Gaz. vol. 148; p. 390.  
 Churn, Auto-operating. J. H. Helms and J. E. Black. No. 944,965; Dec. 28; Sp. p. 6311; Gaz. vol. 149; p. 1084.  
 Churn-cover. J. W. Jackson. No. 911,819; Feb. 9; Sp. p. 1561; Gaz. vol. 139; p. 290.  
 Churn-dasher. J. B. Mellor. No. 925,932; June 22; Sp. p. 5966; Gaz. vol. 143; p. 1030.  
 Churn-motor. J. T. Walston. No. 943,580; Dec. 14; Sp. p. 3302; Gaz. vol. 149; p. 556.  
 Churn-operating means. C. L. Archie. No. 926,535; June 29; Sp. p. 7158; Gaz. vol. 143; p. 1264.  
 Churn-operating mechanism. W. H. Colman. No. 918,508; Apr. 20; Sp. p. 3152; Gaz. vol. 141; p. 578.  
 Churn-operating mechanism. F. N. Johnson. No. 924,994; June 15; Sp. p. 4079; Gaz. vol. 143; p. 694.  
 Churn-operating mechanism. A. M. Johnson. No. 934,537; Sept. 21; Sp. p. 3148; Gaz. vol. 146; p. 549.  
 Churn-power. W. S. Whitney. No. 928,297; July 20; Sp. p. 3359; Gaz. vol. 144; p. 697.  
 Churn-stand and power. W. M. Bates, W. C. Knight, and J. M. Gast. No. 935,834; Oct. 5; Sp. p. 502; Gaz. vol. 147; p. 72.  
 Churn, Vibratory. W. Sanders. No. 923,375; June 1; Sp. p. 602; Gaz. vol. 143; p. 88.  
 Churns, Lever construction for. R. M. Rowe. No. 934,217; Sept. 14; Sp. p. 2536; Gaz. vol. 146; p. 419.  
 Churns, &c., Suspended dasher for. J. R. Castle. No. 919,693; Apr. 27; Sp. p. 5871; Gaz. vol. 141; p. 1008.  
 Churning apparatus. F. L. White and H. P. Jarvis. No. 908,824; Jan. 5; Sp. p. 1013; Gaz. vol. 138; p. 163.  
 Chute. W. B. Berg. No. 918,418; Apr. 13; Sp. p. 2947; Gaz. vol. 141; p. 519.  
 Chute and can, Garbage. E. Bradshaw. No. 942,854; Dec. 7; Sp. p. 1712; Gaz. vol. 149; p. 278.  
 Chute, Bean-. R. A. and H. O. Haenke. No. 939,830; Nov. 9; Sp. p. 3041; Gaz. vol. 148; p. 501.  
 Chute cart or wagon. A. Hartl. No. 926,983; July 6; Sp. p. 569; Gaz. vol. 144; p. 93.  
 Chute, Coal-. H. M. Stradling. No. 926,032; June 22; Sp. p. 6156; Gaz. vol. 143; p. 1063.  
 Chute, Compound. G. A. Long. No. 912,389; Feb. 16; Sp. p. 2821; Gaz. vol. 139; p. 513.  
 Chute, Delivery-. G. A. Hitchcock. No. 924,351; June 8; Sp. p. 2738; Gaz. vol. 143; p. 446.  
 Chute for mills, granaries, warehouses, &c. W. F. Cruickshank. No. 921,595; May 11; Sp. p. 3062; Gaz. vol. 142; p. 526.  
 Chute, Hog-. J. Rada. No. 944,379; Dec. 28; Sp. p. 5029; Gaz. vol. 149; p. 885.  
 Chute-package. A. L. Perpignan and G. E. Riebelman. No. 934,347; Sept. 14; Sp. p. 2780; Gaz. vol. 146; p. 462.  
 Chute, Waste-. G. A. Hofmeyer. No. 939,690; Nov. 9; Sp. p. 2747; Gaz. vol. 148; p. 453.  
 Chute, Waste-. G. A. Hofmeyer. No. 939,691; Nov. 9; Sp. p. 2749; Gaz. vol. 148; p. 454.  
 Cider press and separator. F. H. Bretz. No. 931,728; Aug. 24; Sp. p. 4461; Gaz. vol. 145; p. 777.  
 Cigar. F. Meyer. No. 931,629; Aug. 17; Sp. p. 4198; Gaz. vol. 145; p. 720.  
 Cigar and cigarette holder and smoking-pipe, Combined. J. Berg. No. 924,418; June 8; Sp. p. 2863; Gaz. vol. 143; p. 468.  
 Cigar, Antiseptic mouth-protector. J. F. Burger. No. 924,316; June 8; Sp. p. 2670; Gaz. vol. 143; p. 435.  
 Cigar-band. J. H. and C. A. Charbeneau. No. 916,672; Mar. 30; Sp. p. 6125; Gaz. vol. 140; p. 1097.  
 Cigar-box. A. B. Smith. No. 909,699; Jan. 12; Sp. p. 2549; Gaz. vol. 138; p. 452.  
 Cigar box and stamp. S. Rosenthal. No. 918,597; Apr. 20; Sp. p. 3337; Gaz. vol. 141; p. 607.  
 Cigar-box holder. B. L. Fowlkes. No. 911,712; Feb. 9; Sp. p. 1375; Gaz. vol. 139; p. 256.  
 Cigar-box-lid holder. A. P. Ladd. No. 917,462; Apr. 6; Sp. p. 996; Gaz. vol. 141; p. 173.  
 Cigar-bunch molds and releasing the bunches therein, Apparatus for opening. J. R. Schmitt. No. 925,600; June 22; Sp. p. 5239; Gaz. vol. 143; p. 922.  
 Cigar-bunches, Making. S. I. Prescott. No. 911,756; Feb. 9; Sp. p. 1445; Gaz. vol. 139; p. 269.  
 Cigar-cutter. A. W. Barton. No. 911,804; Feb. 9; Sp. p. 1525; Gaz. vol. 139; p. 284.  
 Cigar-cutter. R. Fischer. No. 943,738; Dec. 21; Sp. p. 3684; Gaz. vol. 149; p. 640.  
 Cigar-cutter. R. Fischer. No. 943,739; Dec. 21; Sp. p. 3686; Gaz. vol. 149; p. 640.  
 Cigar cutter and cleaner. H. Saul and R. N. Evans. No. 920,395; May 4; Sp. p. 623; Gaz. vol. 142; p. 99.  
 Cigar cutter and lighter. W. J. Crowley. No. 914,928; Mar. 9; Sp. p. 2653; Gaz. vol. 140; p. 445.  
 Cigar cutter and lighter, Automatic. P. H. Greear and J. Mackenzie. No. 918,532; Apr. 20; Sp. p. 3199; Gaz. vol. 141; p. 586.  
 Cigar-cutter and match-vending machine, Combined. J. Pignocco. No. 937,092; Oct. 19; Sp. p. 3094; Gaz. vol. 147; p. 544.  
 Cigar cutter and perforator. H. C. Cragg. No. 925,158; June 15; Sp. p. 4390; Gaz. vol. 143; p. 749.  
 Cigar end or tack forming machine. R. Helms. No. 940,248; Nov. 16; Sp. p. 3983; Gaz. vol. 148; p. 678.  
 Cigar-holder. E. A. Ingraham. No. 917,948; Apr. 13; Sp. p. 1990; Gaz. vol. 141; p. 362.  
 Cigar-holder. P. Duphiney. No. 918,299; Apr. 13; Sp. p. 2718; Gaz. vol. 141; p. 482.  
 Cigar-holder. S. R. Hayden. No. 918,446; Apr. 13; Sp. p. 3006; Gaz. vol. 141; p. 529.  
 Cigar-lighter. J. C. Raymond. No. 910,313; Jan. 19; Sp. p. 3843; Gaz. vol. 138; p. 692.  
 Cigar-lighter. A. C. Gruhlke. No. 925,171; June 15; Sp. p. 4417; Gaz. vol. 143; p. 754.  
 Cigar-lighter. C. S. Drake. No. 928,252; July 20; Sp. p. 3226; Gaz. vol. 144; p. 575.  
 Cigar-lighter. F. J. Wildemann. No. 934,119; Sept. 14; Sp. p. 2350; Gaz. vol. 146; p. 386.  
 Cigar lighter and cutter, Combined. G. W. Britton. No. 942,434; Dec. 7; Sp. p. 833; Gaz. vol. 149; p. 137.  
 Cigar-lighter, Electric. S. A. Campbell. No. 938,368; Oct. 26; Sp. p. 5821; Gaz. vol. 147; p. 988.  
 Cigar-machine. R. Annigoni. No. 913,869; Mar. 2; Sp. p. 425; Gaz. vol. 140; p. 69.  
 Cigar-machine. F. E. Kelsey. No. 931,314; Aug. 17; Sp. p. 3594; Gaz. vol. 145; p. 619.  
 Cigar-maker's table. S. J. Clark. No. 936,411; Oct. 12; Sp. p. 1699; Gaz. vol. 147; p. 287.  
 Cigar-moistener. J. H. Glatt. No. 911,392; Feb. 2; Sp. p. 720; Gaz. vol. 139; p. 124.  
 Cigar-perforator. E. F. Hall. No. 935,973; Oct. 5; Sp. p. 797; Gaz. vol. 147; p. 118.  
 Cigar-piercing device. R. C. Holmes. No. 933,250; Sept. 7; Sp. p. 510; Gaz. vol. 146; p. 78.  
 Cigar-press. N. Weiss. No. 910,977; Jan. 26; Sp. p. 5178; Gaz. vol. 138; p. 933.  
 Cigar-presser. S. G. Lipschutz. No. 942,397; Dec. 7; Sp. p. 757; Gaz. vol. 149; p. 123.  
 Cigar-pressing apparatus. R. Woerner. No. 917,984; Apr. 13; Sp. p. 2070; Gaz. vol. 141; p. 374.  
 Cigar-pressing apparatus. K. Wimmer, K. Hart, and A. Hertel. No. 923,231; June 1; Sp. p. 229; Gaz. vol. 143; p. 38.  
 Cigar-pressing box. R. Woerner. No. 944,758; Dec. 28; Sp. p. 5892; Gaz. vol. 149; p. 1015.  
 Cigar-retainer and inner seal. A. H. Andrews. No. 921,938; May 18; Sp. p. 3799; Gaz. vol. 142; p. 668.  
 Cigar-rolling table. R. Annigoni. No. 913,870; Mar. 2; Sp. p. 428; Gaz. vol. 140; p. 69.  
 Cigar-safe, Combined. J. L. Nail. No. 919,926; Apr. 27; Sp. p. 6350; Gaz. vol. 141; p. 1085.  
 Cigar, Self-igniting. J. H. Hoover. No. 928,451; July 20; Sp. p. 3650; Gaz. vol. 144; p. 643.  
 Cigar, Self-lighting. D. G. Vale. No. 941,966; Nov. 30; Sp. p. 7722; Gaz. vol. 148; p. 1300.  
 Cigar-shaping machine. G. A. Moebs. No. 915,203; Mar. 16; Sp. p. 3222; Gaz. vol. 140; p. 562.

*Alphabetical list of inventions—Continued.*

- Cigar wrapper cutter and rolling board. S. Hartman. No. 937,371; Oct. 19; Sp. p. 3687; Gaz. vol. 147; p. 634.  
 Cigar-wrapper-cutting machine. B. A. Williams. No. 944,163; Dec. 21; Sp. p. 4580; Gaz. vol. 149; p. 785.  
 Cigars, Ash-guard for. T. A. Tubbs. No. 930,576; Aug. 10; Sp. p. 1961; Gaz. vol. 145; p. 345.  
 Cigars, Device for incising the ends of. C. G. Taylor. No. 915,807; Mar. 23; Sp. p. 4442; Gaz. vol. 140; p. 789.  
 Cigars, Lid-supporting display-box for. A. G. Jaeger. No. 929,856; Aug. 3; Sp. p. 498; Gaz. vol. 145; p. 80.  
 Cigars, Packing. C. G. Singley. No. 908,809; Jan. 5; Sp. p. 786; Gaz. vol. 138; p. 124.  
 Cigarette. T. T. Hutchinson. No. 922,481; May 25; Sp. p. 4903; Gaz. vol. 142; p. 874.  
 Cigarette and like paper holder. W. S. King. No. 928,058; July 13; Sp. p. 2821; Gaz. vol. 144; p. 480.  
 Cigarette and match box. S. Schendel. No. 940,198; Nov. 16; Sp. p. 3886; Gaz. vol. 148; p. 660.  
 Cigarette and tobacco box. C. Campus. No. 930,154; Aug. 3; Sp. p. 1120; Gaz. vol. 145; p. 182.  
 Cigarette-box. S. A. Spaziente. No. 935,064; Sept. 28; Sp. p. 4205; Gaz. vol. 146; p. 753.  
 Cigarette-case. J. E. F. Pender. No. 932,569; Aug. 31; Sp. p. 6219; Gaz. vol. 145; p. 1077.  
 Cigarette detachable and collapsible tip. C. A. Drucklieb. No. 931,582; Aug. 17; Sp. p. 4103; Gaz. vol. 145; p. 706.  
 Cigarette-holder. W. Beamish. No. 915,726; Mar. 23; Sp. p. 4299; Gaz. vol. 140; p. 764.  
 Cigarette-machine. J. C. Drucklieb and C. Simon. No. 933,239; Sept. 7; Sp. p. 475; Gaz. vol. 146; p. 74.  
 Cigarette-manufacturing apparatus. O. Wartmann. No. 927,196; July 6; Sp. p. 1025; Gaz. vol. 144; p. 166.  
 Cigarette or cigar box. A. Koehenthal, A. W. Mock, and A. Jacobi. No. 911,248; Feb. 2; Sp. p. 452; Gaz. vol. 139; p. 77.  
 Cigarette-shells with tobacco, Machine for filling. L. Lindelöf. No. 930,395; Aug. 10; Sp. p. 1560; Gaz. vol. 145; p. 282.  
 Cigarette-tipping machine. S. Palmowsky. No. 909,931; Jan. 19; Sp. p. 3030; Gaz. vol. 138; p. 561.  
 Cigarette-tipping machine. A. L. Boucher. No. 933,359; Sept. 7; Sp. p. 733; Gaz. vol. 146; p. 115.  
 Cigarette-tipping machine. S. Palmowsky. No. 936,026; Oct. 5; Sp. p. 901; Gaz. vol. 147; p. 136.  
 Cigarette-tipping machine. S. Palmowsky. No. 942,514; Dec. 7; Sp. p. 1021; Gaz. vol. 149; p. 163.  
 Cigarette-tubes, Coating. J. Guénifet and J. Nicault. No. 921,104; May 11; Sp. p. 2066; Gaz. vol. 142; p. 364.  
 Cigarette-tubes, Making. G. Nast. No. 936,019; Oct. 5; Sp. p. 883; Gaz. vol. 147; p. 133.  
 Cigarettes, &c., Machine for packing. E. L. Bracy. No. 941,490; Nov. 30; Sp. p. 6719; Gaz. vol. 148; p. 1138.  
 Cinder-guard. H. S. Grimes and C. L. McCloud. No. 917,593; Apr. 6; Sp. p. 1233; Gaz. vol. 141; p. 216.  
 Cipher-code system. W. J. Roussel. No. 916,606; Mar. 30; Sp. p. 5999; Gaz. vol. 140; p. 1076.  
 Cipher systems, Apparatus for use in connection with check. H. C. Newton and A. G. M. Michell. No. 935,536; Sept. 28; Sp. p. 5164; Gaz. vol. 146; p. 906.  
 Circle-divider. N. Perris. No. 931,080; Aug. 17; Sp. p. 3073; Gaz. vol. 145; p. 539.  
 Circles, Instrument for describing arcs of. A. W. Allen. No. 915,926; Mar. 23; Sp. p. 4665; Gaz. vol. 140; p. 827.  
 Circuit and apparatus, Interrupter. J. F. Engle. No. 921,601; May 11; Sp. p. 3093; Gaz. vol. 142; p. 528.  
 Circuit-breaker. K. Kuhlmann. No. 918,681; Apr. 20; Sp. p. 3578; Gaz. vol. 141; p. 636.  
 Circuit-breaker. L. C. Steele. No. 920,208; May 4; Sp. p. 238; Gaz. vol. 142; p. 38.  
 Circuit-breaker. H. W. Cheney. No. 925,441; June 15; Sp. p. 4916; Gaz. vol. 143; p. 840.  
 Circuit-breaker. H. W. Cheney. No. 930,155; Aug. 3; Sp. p. 1122; Gaz. vol. 145; p. 182.  
 Circuit-breaker. R. L. Browne and A. R. Howell. No. 931,264; Aug. 17; Sp. p. 3475; Gaz. vol. 145; p. 602.  
 Circuit-breaker. J. B. and H. E. Howe. No. 932,863; Aug. 31; Sp. p. 6837; Gaz. vol. 145; p. 1173.  
 Circuit-breaker. C. A. Tucker. No. 934,482; Sept. 21; Sp. p. 3051; Gaz. vol. 146; p. 532.  
 Circuit-breaker, Automatic. H. W. Cheney. No. 928,901; July 20; Sp. p. 4547; Gaz. vol. 144; p. 793.  
 Circuit-breaker, Automatic. N. H. Holland. No. 937,242; Oct. 19; Sp. p. 3423; Gaz. vol. 147; p. 592.  
 Circuit-breaker, Automatic. J. N. Keltman. No. 938,324; Oct. 26; Sp. p. 5708; Gaz. vol. 147; p. 972.  
 Circuit-breaker, Automatic. W. H. Lawrence and P. Torchio. No. 940,881; Nov. 23; Sp. p. 5397; Gaz. vol. 148; p. 914.  
 Circuit breaker, Automatic electric. W. F. Meter and W. L. Rideout. No. 939,730; Nov. 9; Sp. p. 2828; Gaz. vol. 148; p. 467.  
 Circuit-breaker, Automatic magnetic. W. M. Scott. No. 940,647; Nov. 16; Sp. p. 4876; Gaz. vol. 148; p. 811.  
 Circuit-breaker, Caloric. C. C. Woodworth. No. 934,781; Sept. 21; Sp. p. 3625; Gaz. vol. 146; p. 632.  
 Circuit-breaker, Gas or vapor. P. H. Thomas. No. 919,264; Apr. 20; Sp. p. 4927; Gaz. vol. 141; p. 826.  
 Circuit-breaker, Time-limit. W. Fellenberg. No. 920,045; Apr. 27; Sp. p. 6603; Gaz. vol. 141; p. 1123.  
 Circuit-breaking device. E. L. Rancourt. No. 925,838; June 22; Sp. p. 5775; Gaz. vol. 143; p. 999.  
 Circuit-closer. A. B. Culver. No. 911,943; Feb. 9; Sp. p. 1793; Gaz. vol. 139; p. 330.  
 Circuit-closer. W. E. Hubbard. No. 912,848; Feb. 16; Sp. p. 3797; Gaz. vol. 139; p. 668.  
 Circuit-closer. H. C. Williamson. No. 924,123; June 8; Sp. p. 2205; Gaz. vol. 143; p. 367.  
 Circuit-closer. O. M. Tustison. No. 928,824; July 20; Sp. p. 4389; Gaz. vol. 144; p. 764.  
 Circuit-closer for recording-anemometers. J. C. Jurgensen. No. 923,185; June 1; Sp. p. 138; Gaz. vol. 143; p. 22.  
 Circuit-closer, Rotary. F. E. Lind. No. 914,435; Mar. 9; Sp. p. 1659; Gaz. vol. 140; p. 283.  
 Circuit-closing and breaking device for electrically-operated annunciators, &c. A. May. No. 938,394; Oct. 26; Sp. p. 5879; Gaz. vol. 147; p. 997.  
 Circuit-controller. R. W. Coffee. No. 912,447; Feb. 16; Sp. p. 2933; Gaz. vol. 139; p. 532.  
 Circuit-controller. S. Holland. No. 913,383; Feb. 23; Sp. p. 4866; Gaz. vol. 139; p. 871.  
 Circuit-controller. S. Cabot. No. 917,749; Apr. 13; Sp. p. 1559; Gaz. vol. 141; p. 295.  
 Circuit-controller. W. L. Bliss. No. 926,164; June 29; Sp. p. 6443; Gaz. vol. 143; p. 1142.  
 Circuit-controller operating mechanism. N. W. Truxal. No. 914,535; Mar. 9; Sp. p. 1859; Gaz. vol. 140; p. 316.  
 Circuit-controller, Thermostatic. H. F. Rice. No. 924,499; June 8; Sp. p. 3020; Gaz. vol. 143; p. 493.  
 Circuit-controller, Thermostatic. W. H. Kirnan. No. 930,972; Aug. 10; Sp. p. 2793; Gaz. vol. 145; p. 473.  
 Circuit-controlling device. H. Geisenhörer. No. 910,661; Jan. 26; Sp. p. 4580; Gaz. vol. 138; p. 833.  
 Circuit-controlling device. R. B. Patterson. No. 918,086; Apr. 13; Sp. p. 2292; Gaz. vol. 141; p. 411.  
 Circuit-controlling device. E. Johnson. No. 937,442; Oct. 19; Sp. p. 3863; Gaz. vol. 147; p. 658.  
 Circuit-controlling instrument. G. M. Willis. No. 913,086; Feb. 23; Sp. p. 4253; Gaz. vol. 139; p. 770.  
 Circuit-controlling mechanism. M. W. Day. No. 935,092; Sept. 28; Sp. p. 4269; Gaz. vol. 146; p. 762.  
 Circuit-controlling mechanism, Time-controlled. F. W. Wood. No. 933,217; Sept. 7; Sp. p. 417; Gaz. vol. 146; p. 65.  
 Circuit-controlling switch. W. S. Ryan. No. 926,681; June 29; Sp. p. 7440; Gaz. vol. 143; p. 1312.  
 Circuit for propagating wave-forms. D. C. Jackson. No. 936,538; Oct. 12; Sp. p. 1987; Gaz. vol. 147; p. 328.  
 Circuit-interrupter. J. M. Wilson. No. 921,046; May 11; Sp. p. 1930; Gaz. vol. 142; p. 343.  
 Circuit making and breaking device. H. S. Baker. No. 933,012; Aug. 31; Sp. p. 7110; Gaz. vol. 145; p. 1222.  
 Circuit regulating device, Alternating-current. S. R. Bergman. No. 916,983; Apr. 6; Sp. p. 35; Gaz. vol. 141; p. 11.  
 Circuit-wire-connection shield. T. E. Murray. No. 925,823; June 22; Sp. p. 5744; Gaz. vol. 143; p. 994.  
 Circuits, Means for protecting operators' ringing leads from short. W. W. Dean. No. 932,003; Aug. 24; Sp. p. 5062; Gaz. vol. 145; p. 866.  
 Circular cutter. R. D. Kinyon. No. 942,081; Dec. 7; Sp. p. 93; Gaz. vol. 149; p. 16.  
 Circulating system. T. E. Warren. No. 916,810; Mar. 30; Sp. p. 6363; Gaz. vol. 140; p. 1137.  
 Circulating-system impelling device. E. P. Holly. No. 917,070; Apr. 6; Sp. p. 214; Gaz. vol. 141; p. 40.  
 Circulator. C. J. Watts. No. 917,206; Apr. 6; Sp. p. 503; Gaz. vol. 141; p. 87.  
 Cistern. G. Ross. No. 924,834; June 15; Sp. p. 3740; Gaz. vol. 143; p. 640.  
 Cistern. O. M. Alexander. No. 934,647; Sept. 21; Sp. p. 3375; Gaz. vol. 146; p. 588.  
 Cistern, Air-tight. B. L. Mills. No. 926,674; June 29; Sp. p. 7428; Gaz. vol. 143; p. 1310.  
 Cistern and well pump casing. J. S. Shea. No. 923,302; June 1; Sp. p. 449; Gaz. vol. 143; p. 63.  
 Cistern automatic cut-off. R. E. Estes. No. 914,936; Mar. 9; Sp. p. 2667; Gaz. vol. 140; p. 447.  
 Cistern-cleaner. G. A. Stinger. No. 917,374; Apr. 6; Sp. p. 847; Gaz. vol. 141; p. 145.  
 Cistern-cleaner. J. H. Fox. No. 942,254; Dec. 7; Sp. p. 485; Gaz. vol. 149; p. 75.  
 Cistern-cleaner and water-purifier. T. S. Murray and L. B. Kimball. No. 909,314; Jan. 12; Sp. p. 1805; Gaz. vol. 138; p. 323.  
 Cistern cut-off. A. Fink. No. 910,519; Jan. 26; Sp. p. 4282; Gaz. vol. 138; p. 786.  
 Cistern-mold, Collapsible. D. Laughlin. No. 927,806; July 13; Sp. p. 2289; Gaz. vol. 144; p. 396.  
 Cistern, Siphon-discharge flushing. J. W. Walls, Jr. No. 926,155; June 29; Sp. p. 6429; Gaz. vol. 143; p. 1139.  
 Clam-shell. J. D. Pennewell. No. 936,500; Oct. 12; Sp. p. 2033; Gaz. vol. 147; p. 335.  
 Clamp. See Adjustable clamp; Bed-clamp; Bedclothes-clamp; Bedstead clothes-clamp; Bench-clamp; Blanket-clamp; Cable-clamp; Cable-hanger-clamp; Casing-clamp; Casket-clamp; Clothes-line clamp; Column-clamp; Conduit-clamp; Cord-clamp; Corset-clamp; Cue-clamp; Dental clamp; Dental matrix-clamp; Dental tooth-clamp; Double-acting clamp; Edge-protecting clamp; Electric ground-clamp; Electrical and other fixture clamp; Extension-clamp; Fence-clamp; Fence-stretcher clamp; Fence-wire clamp; Fence-wiring clamp; Filing-device clamp; Flask-clamp; Flooring-clamp; Garment-supporter clamp; Glass-clamp; Guard-rail clamp; Guy-wire clamp; Harness-clamp; Hose-clamp; Implement-clamp; Insulator and wire-clamp; Ledger-clamp; Letter-clamp; Locking-clamp; Meat-clamp; Miter-clamp; Paper-cutter clamp; Pipe-clamp; Pipe-hanger beam-clamp; Plate-clamp; Plumber's clamp; Rail-clamp; Razor-blade clamp; Reel-clamp; Revolver-frame clamp; Ring-clamp; Rope-clamp; Rope-socket clamp; Rug-clamp; Rule-clamp; Saw-clamp; Saw-filing clamp; Shoe-pattern clamp; Soldering-clamp; Spoon-clamp; Stair-carpet clamp; Trolley-clamp; Type-writing-machine clamp; Wire-clamp; Wire-rope clamp; Woodworker's clamp; Woodworking-clamp; Work-clamp; Wringer-clamp.



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- Clamp. O. B. Perkins. No. 908,884; Jan. 5; Sp. p. 940; Gaz. vol. 138; p. 149.  
 Clamp. F. B. Cook. No. 913,699; Mar. 2; Sp. p. 44; Gaz. vol. 140; p. 9.  
 Clamp. S. B. Derby. No. 917,718; Apr. 6; Sp. p. 1472; Gaz. vol. 141; p. 258.  
 Clamp. T. Lucier. No. 920,357; May 4; Sp. p. 544; Gaz. vol. 142; p. 86.  
 Clamp. J. Rivers. No. 922,336; May 18; Sp. p. 4590; Gaz. vol. 142; p. 798.  
 Clamp. M. Calvin and M. Kaufman. No. 923,329; June 1; Sp. p. 512; Gaz. vol. 143; p. 73.  
 Clamp. C. B. Wanamaker. No. 923,610; June 1; Sp. p. 1122; Gaz. vol. 143; p. 171.  
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 Clamp. G. A. Lintow. No. 924,478; June 8; Sp. p. 2968; Gaz. vol. 143; p. 486.  
 Clamp. J. Sinning and P. A. de Lange. No. 925,603; June 22; Sp. p. 5243; Gaz. vol. 143; p. 923.  
 Clamp. H. R. Schweinler. No. 925,660; June 22; Sp. p. 5364; Gaz. vol. 143; p. 940.  
 Clamp. T. Newton and H. Jourdan. No. 925,828; June 22; Sp. p. 5758; Gaz. vol. 143; p. 996.  
 Clamp. J. C. Todd. No. 932,516; Aug. 31; Sp. p. 6105; Gaz. vol. 145; p. 1059.  
 Clamp. J. P. Lawrence. No. 935,527; Sept. 28; Sp. p. 5141; Gaz. vol. 146; p. 903.  
 Clamp. J. H. Umpleby. No. 936,195; Oct. 5; Sp. p. 1242; Gaz. vol. 147; p. 183.  
 Clamp. F. J. Christman. No. 937,766; Oct. 26; Sp. p. 4520; Gaz. vol. 147; p. 784.  
 Clamp. D. A. Ducharme. No. 941,504; Nov. 30; Sp. p. 6747; Gaz. vol. 148; p. 1143.  
 Clamp. C. I. Lender. No. 944,622; Dec. 28; Sp. p. 5593; Gaz. vol. 149; p. 971.  
 Clamp and rail-brace. J. J. Griffin and A. W. Muth. No. 940,964; Nov. 23; Sp. p. 5567; Gaz. vol. 148; p. 942.  
 Clamp and stretcher. Combined. C. Stout. No. 926,030; June 22; Sp. p. 6153; Gaz. vol. 143; p. 1062.  
 Clamp-attaching device. J. P. Lyon. No. 925,118; June 15; Sp. p. 4317; Gaz. vol. 143; p. 735.  
 Clamp for racks and like devices. H. R. Langslow. No. 934,676; Sept. 21; Sp. p. 3424; Gaz. vol. 146; p. 598.  
 Clamp-locking device. J. Begins. No. 942,239; Dec. 7; Sp. p. 453; Gaz. vol. 149; p. 70.  
 Clamp-operating mechanism for casting apparatus. F. F. Waechter and C. H. Wurster, Jr. No. 918,403; Apr. 13; Sp. p. 2918; Gaz. vol. 141; p. 514.  
 Clamping and heating device. A. B. Herrick. No. 919,350; Apr. 27; Sp. p. 5126; Gaz. vol. 141; p. 889.  
 Clamping device. W. Donald. No. 921,373; May 11; Sp. p. 2645; Gaz. vol. 142; p. 454.  
 Clamping device. J. W. Higgins. No. 938,862; Nov. 2; Sp. p. 883; Gaz. vol. 148; p. 141.  
 Clamping-machine. A. E. Palmer. No. 918,192; Apr. 13; Sp. p. 2492; Gaz. vol. 141; p. 446.  
 Clamping-mechanism. J. M. Thompson. No. 912,757; Feb. 16; Sp. p. 3635; Gaz. vol. 139; p. 640.  
 Clamping or binding mechanism. W. J. Wright. No. 930,258; Aug. 3; Sp. p. 1295; Gaz. vol. 145; p. 214.  
 Clasp. *See* Belt-clasp; Book-clasp; Chain-clasp; Corset-clasp; Garment-clasp; Garment-supporter clasp; Garter-clasp; Hanging clasp; Hose-supporter clasp; Jewelry-clasp; Package-clasp; Piling-clasp; Ribbon-roll clasp; Supporter-clasp; Tie-clasp; Trousers-clasp; Veil-clasp.  
 Clasp. F. W. Seidl. No. 913,854; Mar. 2; Sp. p. 371; Gaz. vol. 140; p. 63.  
 Clasp. E. Pickhardt. No. 917,791; Apr. 13; Sp. p. 1665; Gaz. vol. 141; p. 308.  
 Clasp. J. A. Albertoni and E. Tropeano. No. 931,023; Aug. 17; Sp. p. 2936; Gaz. vol. 145; p. 519.  
 Clasp. T. C. Luce. No. 933,190; Sept. 7; Sp. p. 343; Gaz. vol. 146; p. 54.  
 Clasp. G. N. Hall. No. 933,752; Sept. 14; Sp. p. 1626; Gaz. vol. 146; p. 267.  
 Clasp. P. M. MacKaskie. No. 935,670; Oct. 5; Sp. p. 97; Gaz. vol. 147; p. 17.  
 Clasp. L. S. Murdock. No. 937,841; Oct. 26; Sp. p. 4675; Gaz. vol. 147; p. 809.  
 Clasp-fastener. M. Pugatsky, H. Wilkenfeld, and S. Mannes. No. 941,096; Nov. 23; Sp. p. 5846; Gaz. vol. 148; p. 986.  
 Claw-bar. M. Waters. No. 935,714; Oct. 5; Sp. p. 194; Gaz. vol. 147; p. 31.  
 Clay condensers for retorts, Machine for molding. R. Garrison and G. W. Whipple. No. 915,848; Mar. 23; Sp. p. 4521; Gaz. vol. 140; p. 803.  
 Clay-gathering machine. C. E. Olden. No. 939,855; Nov. 9; Sp. p. 3087; Gaz. vol. 148; p. 510.  
 Clay, &c., Machinery for preparing or treating loam-. P. Baur. No. 909,133; Jan. 12; Sp. p. 1460; Gaz. vol. 138; p. 265.  
 Clay products, Drier system for. I. M. Justice. No. 921,255; May 11; Sp. p. 2370; Gaz. vol. 142; p. 415.  
 Clay-working machine. F. B. Lambert. No. 914,735; Mar. 9; Sp. p. 2283; Gaz. vol. 140; p. 382.  
 Cleaner. *See* Ash-pan cleaner; Band-cleaner; Belt-cleaner; Boiler-cleaner; Boiler-flue cleaner; Boiler-tube cleaner; Boot-cleaner; Boot and shoe cleaner; Carpet-cleaner; Chimney-cleaner; Cistern-cleaner; Cotton-cleaner; Disk-cleaner; Drill-cup cleaner; Eraser-cleaner; Floor-cleaner; Flue-cleaner; Fruit-cleaner; Gas-cleaner; Gin-saw cleaner; Glass and dish cleaner; Grain-cleaner; Gun-cleaner; Horse-cleaner; Knife-cleaner; Lamp-cleaner; Lock-cleaner; Locomotive-ash-pan cleaner; Main and pipe cleaner; Pipe-cleaner; Pneumatic cleaner; Pneumatic machinery-cleaner; Rail-cleaner; Rake automatic cleaner; Raspberry-cleaner; Seed-cleaner; Sewer-pipe cleaner; Ship-cleaner; Shoe-cleaner; Spinning-machine thread-board cleaner; Storm-front cleaner; Stovepipe-cleaner; Suction-cleaner; Track-cleaner; Tube-cleaner; Utensil-cleaner; Vacuum-cleaner; Window-cleaner.  
 Cleaner. J. Hadka. No. 939,248; Nov. 9; Sp. p. 1732; Gaz. vol. 148; p. 301.  
 Cleaning and polishing apparatus. S. C. Carroll. No. 919,417; Apr. 27; Sp. p. 5275; Gaz. vol. 141; p. 913.  
 Cleaning apparatus. W. C. Mayo and J. Houlehan. No. 923,547; June 1; Sp. p. 955; Gaz. vol. 143; p. 148.  
 Cleaning apparatus. F. J. Seeley. No. 933,926; Sept. 14; Sp. p. 1964; Gaz. vol. 146; p. 323.  
 Cleaning apparatus, Air-suction. A. H. Squier. No. 930,628; Aug. 10; Sp. p. 2072; Gaz. vol. 145; p. 363.  
 Cleaning apparatus, Cleaner-head for vacuum. F. S. Blackall. No. 930,134; Aug. 3; Sp. p. 1080; Gaz. vol. 145; p. 175.  
 Cleaning apparatus, Pneumatic. C. W. E. Boegel and J. C. Lewis. No. 921,669; May 18; Sp. p. 3266; Gaz. vol. 142; p. 580.  
 Cleaning apparatus, Pneumatic suction. W. Locke and E. B. Dunn. No. 919,606; Apr. 27; Sp. p. 5692; Gaz. vol. 141; p. 979.  
 Cleaning apparatus, Suction. G. R. Bimm. No. 944,714; Dec. 28; Sp. p. 5782; Gaz. vol. 149; p. 1000.  
 Cleaning device. P. A. Bayless and A. C. Hein. No. 929,746; Aug. 3; Sp. p. 237; Gaz. vol. 145; p. 41.  
 Cleaning device. G. B. Haskins. No. 938,421; Oct. 26; Sp. p. 5938; Gaz. vol. 147; p. 1007.  
 Cleaning-knife. T. S. Moffett. No. 912,146; Feb. 9; Sp. p. 2284; Gaz. vol. 139; p. 396.  
 Cleaning-system suction apparatus, Pneumatic-. W. Locke and E. B. Dunn. No. 919,369; Apr. 27; Sp. p. 5176; Gaz. vol. 141; p. 887.  
 Cleaning-tools, Dust-display device for vacuum. J. S. Thurman. No. 918,932; Apr. 20; Sp. p. 4106; Gaz. vol. 141; p. 720.  
 Cleansing compound. H. B. Bishop. No. 921,350; May 11; Sp. p. 2594; Gaz. vol. 142; p. 447.  
 Cleansing compound. J. A. Lester. No. 941,155; Nov. 23; Sp. p. 5984; Gaz. vol. 148; p. 1006.  
 Cleansing fluid or compound. N. A. Hutchins. No. 930,965; Aug. 10; Sp. p. 2778; Gaz. vol. 145; p. 472.  
 Cleansing-machine. F. W. and G. L. Reed. No. 927,165; July 6; Sp. p. 963; Gaz. vol. 144; p. 157.  
 Cleat-joint. S. Whitehall. No. 935,871; Oct. 5; Sp. p. 590; Gaz. vol. 147; p. 84.  
 Cleat, Porcelain. E. Ball. No. 911,864; Feb. 9; Sp. p. 1636; Gaz. vol. 139; p. 303.  
 Clevis. U. Desallier. No. 912,089; Feb. 9; Sp. p. 2182; Gaz. vol. 139; p. 378.  
 Clevis. W. H. Livingston. No. 912,143; Feb. 9; Sp. p. 2278; Gaz. vol. 139; p. 395.  
 Clevis. J. R. Cousins. No. 916,847; Mar. 30; Sp. p. 6441; Gaz. vol. 140; p. 1150.  
 Clevis. W. S. Smith. No. 923,306; June 1; Sp. p. 458; Gaz. vol. 143; p. 64.  
 Clevis. L. D. Bell. No. 932,429; Aug. 31; Sp. p. 5913; Gaz. vol. 145; p. 1031.  
 Clevis. J. W. Sweetnam and C. O. Elam. No. 933,138; Sept. 7; Sp. p. 209; Gaz. vol. 146; p. 36.  
 Clevis-hook, Whiffletree. W. S. Thomson. No. 938,524; Nov. 2; Sp. p. 187; Gaz. vol. 148; p. 27.  
 Clevis, Spring-. C. Mullin. No. 944,899; Dec. 28; Sp. p. 6176; Gaz. vol. 149; p. 1063.  
 Clinometer. C. Larsen. No. 918,869; Apr. 20; Sp. p. 3978; Gaz. vol. 141; p. 699.  
 Clip. *See* Assembling-clip; Electric-terminal clip; Hame-clip; Haulage clip; Leaf-clip; Mail-clip; Package-binding clip; Paper-clip; Pen-clip; Pen and pencil clip; Slip-holding clip; Swingletree-clip; Swingletree safety-clip; Thread-cutting clip; Trolley-clip; Vehicle-spring clip; Ventilator-clip.  
 Clip. F. R. Baker. No. 908,537; Jan. 5; Sp. p. 222; Gaz. vol. 138; p. 38.  
 Clip. C. M. Mockbee. No. 923,558; June 1; Sp. p. 991; Gaz. vol. 143; p. 152.  
 Clip-binder. P. Cohen. No. 913,876; Mar. 2; Sp. p. 439; Gaz. vol. 140; p. 71.  
 Clip-file. C. Spiro. No. 913,315; Feb. 23; Sp. p. 4730; Gaz. vol. 139; p. 848.  
 Clip for attaching springs to cross-bars. W. H. Bates. No. 916,974; Apr. 6; Sp. p. 24; Gaz. vol. 141; p. 8.  
 Clip or tie. J. S. McComb. No. 919,622; Apr. 27; Sp. p. 5721; Gaz. vol. 141; p. 984.  
 Clip-securing mechanism. G. P. Skinner. No. 930,804; Aug. 10; Sp. p. 2420; Gaz. vol. 145; p. 419.  
 Clipper, Hair-. J. A. Campanello and F. D'Aversa. No. 929,549; July 27; Sp. p. 5872; Gaz. vol. 144; p. 1032.  
 Clipper, Pneumatic. C. Shurtleff. No. 937,334; Oct. 19; Sp. p. 3602; Gaz. vol. 147; p. 622.  
 Clipper, Sheep-. C. D. T. McQuoid. No. 926,130; June 29; Sp. p. 6367; Gaz. vol. 143; p. 1130.  
 Clock. E. A. Bazzett. No. 908,938; Jan. 5; Sp. p. 1035; Gaz. vol. 138; p. 166.  
 Clock. E. F. Herschede. No. 909,298; Jan. 12; Sp. p. 1768; Gaz. vol. 138; p. 318.  
 Clock. E. E. Duncan. No. 912,833; Feb. 16; Sp. p. 3778; Gaz. vol. 139; p. 664.  
 Clock. V. E. Dungan. No. 916,123; Mar. 23; Sp. p. 5084; Gaz. vol. 140; p. 892.  
 Clock. C. E. Sanford. No. 929,024; July 27; Sp. p. 4806; Gaz. vol. 144; p. 859.  
 Clock. E. F. Herschede. No. 934,913; Sept. 21; Sp. p. 3890; Gaz. vol. 147; p. 675.

*Alphabetical list of inventions—Continued.*

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 Clock. E. E. Gage. No. 937,232; Oct. 19; Sp. p. 3405; Gaz. vol. 147; p. 589.  
 Clock. R. C. Saloch. No. 940,617; Nov. 16; Sp. p. 4806; Gaz. vol. 148; p. 801.  
 Clock, Advertising-. J. B. Barnett. No. 914,229; Mar. 2; Sp. p. 1229; Gaz. vol. 140; p. 191.  
 Clock, Alarm-. W. Dupen, Sr., and W. Dupen, Jr. No. 915,573; Mar. 16; Sp. p. 3953; Gaz. vol. 140; p. 683.  
 Clock, Alarm-. W. E. Porter. No. 919,765; Apr. 27; Sp. p. 5994; Gaz. vol. 141; p. 1030.  
 Clock, Alarm-. E. B. Lapham and J. Walker. No. 919,892; Apr. 27; Sp. p. 6290; Gaz. vol. 141; p. 1074.  
 Clock, Alarm-. H. P. Arms. No. 924,127; June 8; Sp. p. 2212; Gaz. vol. 143; p. 369.  
 Clock, Alarm-. E. E. Stockton. No. 929,340; July 27; Sp. p. 5514; Gaz. vol. 144; p. 966.  
 Clock, Alarm-. J. B. Connolly. No. 930,939; Aug. 10; Sp. p. 2713; Gaz. vol. 145; p. 464.  
 Clock, Alarm-. W. E. Porter. No. 941,042; Nov. 23; Sp. p. 5736; Gaz. vol. 148; p. 968.  
 Clock alarm-stop. F. R. Alford. No. 910,444; Jan. 19; Sp. p. 4115; Gaz. vol. 138; p. 737.  
 Clock and coin-freed winding apparatus. A. G. P. Wingard. No. 912,220; Feb. 9; Sp. p. 2418; Gaz. vol. 139; p. 417.  
 Clock and the like. J. Bühler. No. 942,374; Dec. 7; Sp. p. 717; Gaz. vol. 149; p. 117.  
 Clock attachment. M. Haynes. No. 910,378; Jan. 19; Sp. p. 3978; Gaz. vol. 138; p. 715.  
 Clock-case. W. E. McGraw. No. 923,991; June 8; Sp. p. 1969; Gaz. vol. 143; p. 326.  
 Clock-case. C. E. Sanford. No. 929,023; July 27; Sp. p. 4805; Gaz. vol. 144; p. 859.  
 Clock-case and calendar-holder, Sheet-metal-. W. H. Hall. No. 929,940; Aug. 3; Sp. p. 677; Gaz. vol. 145; p. 108.  
 Clock-case, Watch-holding. H. C. Karr. No. 919,879; Apr. 27; Sp. p. 6267; Gaz. vol. 141; p. 1069.  
 Clock, Chime-. P. H. Klein, Jr. No. 928,338; July 20; Sp. p. 3520; Gaz. vol. 144; p. 622.  
 Clock combined with coin-freed winding-up apparatus. A. G. P. Wingard. No. 914,907; Mar. 9; Sp. p. 2620; Gaz. vol. 140; p. 439.  
 Clock-dial. R. V. Longtime. No. 908,786; Jan. 5; Sp. p. 744; Gaz. vol. 138; p. 117.  
 Clock, Eight-day alarm-. P. Lux. No. 943,312; Dec. 14; Sp. p. 2748; Gaz. vol. 149; p. 464.  
 Clock, Electric. H. H. Engelberg and C. Wagner. No. 912,235; Feb. 9; Sp. p. 2447; Gaz. vol. 139; p. 422.  
 Clock, Electric. E. E. Clement. No. 920,024; Apr. 27; Sp. p. 6541; Gaz. vol. 141; p. 1116.  
 Clock, Electric. R. D. Hickok. No. 930,754; Aug. 10; Sp. p. 2325; Gaz. vol. 145; p. 403.  
 Clock electric attachment, Alarm-. A. Lewis. No. 919,368; Apr. 27; Sp. p. 5175; Gaz. vol. 141; p. 897.  
 Clock, Electric secondary. H. O. Jackson and H. C. Vizents. No. 909,418; Jan. 12; Sp. p. 1999; Gaz. vol. 138; p. 355.  
 Clock, Electric secondary. H. C. Vizents. No. 909,732; Jan. 12; Sp. p. 2626; Gaz. vol. 138; p. 464.  
 Clock, Electric self-winding. H. O. Jackson and H. C. Vizents. No. 909,417; Jan. 12; Sp. p. 1996; Gaz. vol. 138; p. 354.  
 Clock, Electric self-winding. J. Steiger and J. Besançon. No. 931,157; Aug. 17; Sp. p. 3240; Gaz. vol. 145; p. 565.  
 Clock, Electric watchman's. G. B. Fessenden. No. 924,441; June 8; Sp. p. 2902; Gaz. vol. 143; p. 475.  
 Clock, Electrically-operated. H. Gillette. No. 933,899; Sept. 14; Sp. p. 1909; Gaz. vol. 146; p. 315.  
 Clock, Geographical. J. B. Olinger. No. 935,806; Oct. 5; Sp. p. 448; Gaz. vol. 147; p. 63.  
 Clock-gong. W. C. Morgan. No. 922,021; May 18; Sp. p. 3981; Gaz. vol. 142; p. 696.  
 Clock instalment, Watchman's-. O. E. Hausburg. No. 912,957; Feb. 16; Sp. p. 3983; Gaz. vol. 139; p. 701.  
 Clock lockwork, Striking-. M. C. Gearing. No. 908,767; Jan. 5; Sp. p. 715; Gaz. vol. 138; p. 111.  
 Clock-mount. H. J. Keating. No. 909,422; Jan. 12; Sp. p. 2005; Gaz. vol. 138; p. 356.  
 Clock, Nickel alarm-. E. E. Stockton. No. 936,053; Oct. 5; Sp. p. 963; Gaz. vol. 147; p. 144.  
 Clock, Nickel alarm-. E. E. Stockton. No. 936,054; Oct. 5; Sp. p. 964; Gaz. vol. 147; p. 144.  
 Clock or similar mechanisms, Electric apparatus for driving. H. E. Warren. No. 927,907; July 13; Sp. p. 2518; Gaz. vol. 144; p. 429.  
 Clock-pendulum. L. S. Hazzard. No. 930,664; Aug. 10; Sp. p. 2142; Gaz. vol. 145; p. 374.  
 Clock, Pendulum-actuated. E. W. Vail, Jr. No. 940,410; Nov. 16; Sp. p. 4382; Gaz. vol. 148; p. 733.  
 Clock, Program-. H. B. Wilson. No. 917,394; Apr. 6; Sp. p. 881; Gaz. vol. 141; p. 152.  
 Clock register, Nautical-. T. Cunningham. No. 931,278; Aug. 17; Sp. p. 3506; Gaz. vol. 145; p. 607.  
 Clock-repairing device. G. F. Kelley. No. 924,470; June 8; Sp. p. 2955; Gaz. vol. 143; p. 484.  
 Clock, Secondary electric. P. G. Giroud. No. 917,047; Apr. 6; Sp. p. 174; Gaz. vol. 141; p. 33.  
 Clock, Secondary electric. J. Steiger and J. Besançon. No. 919,790; Apr. 27; Sp. p. 6047; Gaz. vol. 141; p. 1039.  
 Clock, Self-winding. C. W. Wagner. No. 909,485; Jan. 12; Sp. p. 2128; Gaz. vol. 138; p. 377.  
 Clock-setting means, Alarm-. W. A. Armour. No. 926,454; June 29; Sp. p. 7022; Gaz. vol. 143; p. 1238.  
 Clock, Ship's-bells. P. Lux. No. 927,568; July 13; Sp. p. 1766; Gaz. vol. 144; p. 316.  
 Clock-spring releaser and winder. V. C. Taylor. No. 920,098; Apr. 27; Sp. p. 6721; Gaz. vol. 141; p. 1140.  
 Clock system. E. E. Yaxley. No. 909,503; Jan. 12; Sp. p. 2166; Gaz. vol. 138; p. 384.  
 Clock system, Electric. H. O. Harrison. No. 943,933; Dec. 21; Sp. p. 4089; Gaz. vol. 149; p. 708.  
 Clock system, Pneumatic. A. L. Hahl. No. 910,373; Jan. 19; Sp. p. 3961; Gaz. vol. 138; p. 713.  
 Clock systems, Transmitter for impulse-driven. F. M. Schmidt. No. 919,646; Apr. 27; Sp. p. 5762; Gaz. vol. 141; p. 991.  
 Clock, Telephone-. A. Vonhausen. No. 917,202; Apr. 6; Sp. p. 491; Gaz. vol. 141; p. 86.  
 Clock, Time-registering. J. and A. Dey. No. 908,971; Jan. 5; Sp. p. 1093; Gaz. vol. 138; p. 177.  
 Clock-trains, Feed and positive lock for. F. M. Schmidt. No. 919,647; Apr. 27; Sp. p. 5765; Gaz. vol. 141; p. 992.  
 Clock, watch, &c., friction-spring. F. R. Alford. No. 911,534; Feb. 2; Sp. p. 974; Gaz. vol. 139; p. 170.  
 Clock winding-indicator. W. J. A. Mielke. No. 926,277; June 29; Sp. p. 6687; Gaz. vol. 143; p. 1180.  
 Clock winding mechanism. E. E. Yaxley. No. 922,550; May 25; Sp. p. 5047; Gaz. vol. 142; p. 897.  
 Clock winding mechanism, Electric. F. H. Ferand. No. 920,124; May 4; Sp. p. 72; Gaz. vol. 142; p. 9.  
 Clocks and the like, Electromagnetic winding-gear for. K. Puttkammer, F. Orthmann, and J. Schindler. No. 929,011; July 27; Sp. p. 4779; Gaz. vol. 144; p. 854.  
 Clocks into clocks with electric driving means, Device for converting ordinary. A. Anders. No. 929,531; July 27; Sp. p. 5837; Gaz. vol. 144; p. 1026.  
 Clocks, Receptacle for keys for watchmen's. F. Hardinge. No. 912,312; Feb. 16; Sp. p. 2654; Gaz. vol. 139; p. 487.  
 Clockwork pivot-holes, Hardening. C. Grivolos. No. 915,762; Mar. 23; Sp. p. 4368; Gaz. vol. 140; p. 776.  
 Clod-crusher. C. G. Stelzer. No. 941,740; Nov. 30; Sp. p. 7243; Gaz. vol. 148; p. 1221.  
 Clod-crusher and harrow, Combined. W. W. Reichman. No. 913,979; Mar. 2; Sp. p. 694; Gaz. vol. 140; p. 108.  
 Clod-cutter. G. W. and J. L. Voelkel. No. 928,088; July 13; Sp. p. 2863; Gaz. vol. 144; p. 488.  
 Closet; See Chemical-closet; Sanitary closet; Toilet-closet; Water-closet.  
 Closet and wardrobe hooks. W. V. Anderson. No. 909,856; Jan. 19; Sp. p. 2863; Gaz. vol. 138; p. 535.  
 Closet-bowls, Manufacturing siphon. C. B. Walton and G. E. Pauck. No. 927,906; July 13; Sp. p. 2516; Gaz. vol. 144; p. 429.  
 Closet construction. J. W. Kelly. No. 933,373; Sept. 7; Sp. p. 772; Gaz. vol. 146; p. 120.  
 Closet-fitting. W. M. Weatherly. No. 922,222; May 18; Sp. p. 4392; Gaz. vol. 142; p. 761.  
 Closet or privy. R. J. Farmer. No. 917,274; Apr. 6; Sp. p. 649; Gaz. vol. 141; p. 111.  
 Closet-seat. D. A. Ebinger. No. 911,220; Feb. 2; Sp. p. 386; Gaz. vol. 139; p. 67.  
 Closet-seat. E. L. Delany. No. 912,824; Feb. 16; Sp. p. 3757; Gaz. vol. 139; p. 662.  
 Closet-seat. W. L. Heap. No. 916,553; Mar. 30; Sp. p. 5906; Gaz. vol. 140; p. 1059.  
 Closet-seat. R. Gunton. No. 936,714; Oct. 12; Sp. p. 2347; Gaz. vol. 147; p. 389.  
 Closet-seat. A. J. Bogart. No. 937,046; Oct. 19; Sp. p. 3007; Gaz. vol. 147; p. 528.  
 Closet-seat bumper. J. Bropon. No. 926,466; June 29; Sp. p. 7042; Gaz. vol. 143; p. 1241.  
 Closet-seat warmer. E. Cresce. No. 929,079; July 27; Sp. p. 4918; Gaz. vol. 144; p. 877.  
 Closets and urinals, Nidus for aerobic bacteria applicable to. E. L. Short. No. 930,319; Aug. 3; Sp. p. 1401; Gaz. vol. 145; p. 233.  
 Closure. W. R. Comings. No. 911,380; Feb. 2; Sp. p. 696; Gaz. vol. 139; p. 119.  
 Closure. F. Ecaubert. No. 942,171; Dec. 7; Sp. p. 317; Gaz. vol. 149; p. 48.  
 Closure and spout, Non-explosive. W. H. McNutt. No. 929,974; Aug. 3; Sp. p. 742; Gaz. vol. 145; p. 119.  
 Closure-fitting. C. C. Puffer. No. 922,508; May 25; Sp. p. 4948; Gaz. vol. 142; p. 882.  
 Cloth-bolt board. W. W. Taft. No. 912,630; Feb. 16; Sp. p. 3327; Gaz. vol. 139; p. 596.  
 Cloth-bolt holder. E. T. Flemister. No. 923,255; June 1; Sp. p. 293; Gaz. vol. 143; p. 46.  
 Cloth cutting and folding machine. C. N. Colpitts. No. 931,996; Aug. 24; Sp. p. 5039; Gaz. vol. 145; p. 863.  
 Cloth-cutting machine. F. J. Clark. No. 910,172; Jan. 19; Sp. p. 3501; Gaz. vol. 138; p. 640.  
 Cloth-cutting machine. S. Hardy. No. 925,096; June 15; Sp. p. 4271; Gaz. vol. 143; p. 728.  
 Cloth-cutting machine. A. H. De Voe. No. 936,424; Oct. 12; Sp. p. 1737; Gaz. vol. 147; p. 291.  
 Cloth-cutting-machine adjustable presser-foot. H. A. Meyer. No. 926,815; July 6; Sp. p. 216; Gaz. vol. 144; p. 36.  
 Cloth-feeding attachment for tentering-machines. C. F. Gegenheimer. No. 911,490; Feb. 2; Sp. p. 876; Gaz. vol. 139; p. 155.  
 Cloth-folder or hem-gage. I. Hilton. No. 944,094; Dec. 21; Sp. p. 4424; Gaz. vol. 149; p. 762.  
 Cloth-folding apparatus. A. Kay and M. Trattles. No. 919,591; Apr. 27; Sp. p. 5665; Gaz. vol. 141; p. 974.  
 Cloth, Gummed. E. G. Lang. No. 908,780; Jan. 5; Sp. p. 734; Gaz. vol. 138; p. 115.  
 Cloth-handling machine. C. Weiss. No. 937,398; Oct. 19; Sp. p. 3756; Gaz. vol. 147; p. 643.



*Alphabetical list of inventions—Continued.*

- Cloth-holding device. J. F. Mitchem. No. 934,743; Sept. 21; Sp. p. 3554; Gaz. vol. 146; p. 620.  
 Cloth-holding device. J. F. Mitchem. No. 934,744; Sept. 21; Sp. p. 3555; Gaz. vol. 146; p. 620.  
 Cloth-laying machine. C. C. Schneider. No. 912,738; Feb. 16; Sp. p. 3592; Gaz. vol. 139; p. 633.  
 Cloth-machine. C. Goldstein. No. 917,049; Apr. 6; Sp. p. 179; Gaz. vol. 141; p. 34.  
 Cloth, &c., Machine for cutting lengths of. F. W. Denison. No. 909,854; Jan. 12; Sp. p. 2850; Gaz. vol. 138; p. 502.  
 Cloth opener and expander. S. Birch. No. 924,595; June 8; Sp. p. 3213; Gaz. vol. 143; p. 526.  
 Cloth or other material, Machine for trimming and cutting lengths of. F. W. Denison. No. 909,853; Jan. 12; Sp. p. 2847; Gaz. vol. 138; p. 501.  
 Cloth-piler. A. Ratner. No. 923,577; June 1; Sp. p. 1029; Gaz. vol. 143; p. 159.  
 Cloth-piler. A. Ratner. No. 923,578; June 1; Sp. p. 1037; Gaz. vol. 143; p. 159.  
 Cloth-rolling tube. L. Canon. No. 934,502; Sept. 21; Sp. p. 3037; Gaz. vol. 146; p. 533.  
 Cloth shrinking and pressing machine. L. Rothschild. No. 944,281; Dec. 28; Sp. p. 4818; Gaz. vol. 149; p. 850.  
 Cloth thin-plate detector. H. L. Freeman and S. D. Eubanks. No. 908,459; Jan. 5; Sp. p. 51; Gaz. vol. 138; p. 11.  
 Cloth-transfer sheet. K. M. Kaye. No. 911,594; Feb. 9; Sp. p. 1112; Gaz. vol. 139; p. 216.  
 Cloth-treating apparatus. H. L. Gantt. No. 911,560; Feb. 2; Sp. p. 1029; Gaz. vol. 139; p. 178.  
 Clothes-cleaning apparatus. A. R. Kezer. No. 927,549; July 13; Sp. p. 1733; Gaz. vol. 144; p. 309.  
 Clothes-draiser. H. E. Taylor. No. 912,331; Feb. 16; Sp. p. 2703; Gaz. vol. 139; p. 494.  
 Clothes-draiser. A. P. Shepherd. No. 916,041; Mar. 23; Sp. p. 4387; Gaz. vol. 140; p. 865.  
 Clothes-draiser. A. O. Daniels. No. 917,552; Apr. 6; Sp. p. 1161; Gaz. vol. 141; p. 202.  
 Clothes-drier. W. S. Morgan. No. 908,481; Jan. 5; Sp. p. 97; Gaz. vol. 138; p. 18.  
 Clothes-drier. G. N. Galloway. No. 909,579; Jan. 12; Sp. p. 2316; Gaz. vol. 138; p. 410.  
 Clothes-drier. A. W. Ringblom. No. 911,160; Feb. 2; Sp. p. 271; Gaz. vol. 139; p. 48.  
 Clothes-drier. K. Erickson. No. 911,651; Feb. 9; Sp. p. 1254; Gaz. vol. 139; p. 236.  
 Clothes-drier. F. T. Johnson. No. 913,823; Mar. 2; Sp. p. 298; Gaz. vol. 140; p. 51.  
 Clothes-drier. J. Surprise. No. 916,053; Mar. 23; Sp. p. 4907; Gaz. vol. 140; p. 869.  
 Clothes-drier. H. M. Burdick. No. 918,000; Apr. 13; Sp. p. 2123; Gaz. vol. 141; p. 381.  
 Clothes-drier. W. J. Hall. No. 924,550; June 8; Sp. p. 3129; Gaz. vol. 143; p. 510.  
 Clothes-drier. J. D. Leen. No. 926,813; July 6; Sp. p. 214; Gaz. vol. 144; p. 36.  
 Clothes-drier. H. W. Sauber. No. 927,172; July 6; Sp. p. 984; Gaz. vol. 144; p. 159.  
 Clothes-drier. W. C. Davids. No. 931,917; Aug. 24; Sp. p. 4883; Gaz. vol. 145; p. 837.  
 Clothes-drier. J. D. Quinlan and G. Mulvaney. No. 934,569; Sept. 21; Sp. p. 3208; Gaz. vol. 146; p. 559.  
 Clothes-drier. G. B. Deacon. No. 939,398; Nov. 9; Sp. p. 2120; Gaz. vol. 148; p. 363.  
 Clothes-drier for laundries. E. E. Wingate. No. 942,692; Dec. 7; Sp. p. 1363; Gaz. vol. 149; p. 224.  
 Clothes-drying device. J. M. Teach. No. 932,353; Aug. 24; Sp. p. 5753; Gaz. vol. 145; p. 982.  
 Clothes-frame, Revolvable. J. A. Turpin. No. 928,823; July 20; Sp. p. 4388; Gaz. vol. 144; p. 764.  
 Clothes-hanger. H. K. Smith. No. 915,494; Mar. 16; Sp. p. 3778; Gaz. vol. 140; p. 657.  
 Clothes-hanger. G. H. Wheary. No. 917,219; Apr. 6; Sp. p. 527; Gaz. vol. 141; p. 92.  
 Clothes-hanger. H. C. Stanley. No. 925,523; June 22; Sp. p. 5084; Gaz. vol. 143; p. 895.  
 Clothes-hanger, Folding. M. H. Cazier. No. 932,756; Aug. 31; Sp. p. 6631; Gaz. vol. 145; p. 1141.  
 Clothes-hook. S. A. Brockway. No. 923,941; June 8; Sp. p. 1856; Gaz. vol. 143; p. 309.  
 Clothes-line. J. M. Peterman. No. 922,032; May 18; Sp. p. 4004; Gaz. vol. 142; p. 700.  
 Clothes-line. C. H. Hardin. No. 930,856; Aug. 10; Sp. p. 2533; Gaz. vol. 145; p. 437.  
 Clothes-line attachment. J. H. Thomas. No. 936,058; Oct. 5; Sp. p. 972; Gaz. vol. 147; p. 146.  
 Clothes-line clamp. J. J. and C. H. Rathel. No. 921,458; May 11; Sp. p. 2807; Gaz. vol. 142; p. 482.  
 Clothes-line fastener. E. C. Burnard. No. 924,425; June 8; Sp. p. 2875; Gaz. vol. 143; p. 470.  
 Clothes-line fastener. A. Bertram. No. 938,110; Oct. 26; Sp. p. 5243; Gaz. vol. 147; p. 900.  
 Clothes-line hanger. C. C. Lovejoy. No. 939,045; Nov. 2; Sp. p. 1280; Gaz. vol. 148; p. 206.  
 Clothes-line hanger. G. T. Van Ripper. No. 941,898; Nov. 30; Sp. p. 7591; Gaz. vol. 148; p. 1278.  
 Clothes-line holder. P. L. Schmidt. No. 913,436; Feb. 23; Sp. p. 4963; Gaz. vol. 139; p. 889.  
 Clothes-line holder. H. G. Schreiner. No. 916,790; Mar. 30; Sp. p. 6330; Gaz. vol. 140; p. 1131.  
 Clothes-line holder. G. Laube. No. 917,620; Apr. 6; Sp. p. 1278; Gaz. vol. 141; p. 226.  
 Clothes-line holder. H. B. Shreve. No. 925,238; June 15; Sp. p. 4545; Gaz. vol. 143; p. 776.  
 Clothes-line holder. R. Kummer. No. 927,553; July 13; Sp. p. 1740; Gaz. vol. 144; p. 311.  
 Clothes-line holder. R. J. Cantrell. No. 933,620; Sept. 7; Sp. p. 1348; Gaz. vol. 146; p. 200.  
 Clothes-line holder. P. Curran. No. 936,420; Oct. 12; Sp. p. 1729; Gaz. vol. 147; p. 290.  
 Clothes-line hook. L. G. Thelen and J. Flood. No. 944,057; Dec. 21; Sp. p. 4354; Gaz. vol. 149; p. 750.  
 Clothes-line prop. N. C. McGarvey. No. 915,369; Mar. 16; Sp. p. 3523; Gaz. vol. 140; p. 616.  
 Clothes-line prop. W. F. Briggs. No. 936,982; Oct. 12; Sp. p. 2860; Gaz. vol. 147; p. 477.  
 Clothes-line prop. W. Hetherington. No. 940,875; Nov. 23; Sp. p. 5383; Gaz. vol. 148; p. 912.  
 Clothes-line prop and tightener. O. R. Olson. No. 913,548; Feb. 23; Sp. p. 5201; Gaz. vol. 139; p. 926.  
 Clothes-line reel. A. Woltynek. No. 908,927; Jan. 5; Sp. p. 1020; Gaz. vol. 138; p. 164.  
 Clothes-line reel. T. Scally. No. 910,962; Jan. 26; Sp. p. 5154; Gaz. vol. 138; p. 929.  
 Clothes-line reel. S. Settles. No. 919,388; Apr. 27; Sp. p. 5207; Gaz. vol. 141; p. 903.  
 Clothes-line reel. E. W. Powers. No. 924,933; June 15; Sp. p. 3939; Gaz. vol. 143; p. 673.  
 Clothes-line reel. R. Kneisley. No. 930,390; Aug. 10; Sp. p. 1553; Gaz. vol. 145; p. 281.  
 Clothes-line reel. S. S. Rider. No. 939,862; Nov. 9; Sp. p. 3102; Gaz. vol. 148; p. 512.  
 Clothes-line reel and stretcher. M. Kerrigan. No. 938,388; Oct. 26; Sp. p. 5867; Gaz. vol. 147; p. 995.  
 Clothes-line reel and tightener. R. M. Kneisley. No. 926,576; June 29; Sp. p. 7232; Gaz. vol. 143; p. 1278.  
 Clothes-line reel and tightener. R. M. Kneisley. No. 939,033; Nov. 2; Sp. p. 1260; Gaz. vol. 148; p. 202.  
 Clothes-line slack-adjuster. A. Heisterkamp. No. 912,566; Feb. 16; Sp. p. 3199; Gaz. vol. 139; p. 573.  
 Clothes-line support. J. Jacobs. No. 914,049; Mar. 2; Sp. p. 852; Gaz. vol. 140; p. 132.  
 Clothes-line support. R. Reiniger. No. 915,220; Mar. 16; Sp. p. 3248; Gaz. vol. 140; p. 568.  
 Clothes-line support. J. Siensen. No. 930,894; Aug. 10; Sp. p. 2627; Gaz. vol. 145; p. 450.  
 Clothes-line support. G. A. Culbertson. No. 939,811; Nov. 9; Sp. p. 3008; Gaz. vol. 148; p. 495.  
 Clothes-line support, Window. T. A. Macdonald. No. 943,433; Dec. 14; Sp. p. 2998; Gaz. vol. 149; p. 506.  
 Clothes-line tightener. R. C. Scheurer and L. Marek. No. 939,099; Nov. 2; Sp. p. 1377; Gaz. vol. 148; p. 224.  
 Clothes-lines, &c., Holder for. C. C. Gould. No. 926,405; June 29; Sp. p. 6929; Gaz. vol. 143; p. 1220.  
 Clothes-marker. J. Weaver, Jr., and A. Martin. No. 930,005; Aug. 3; Sp. p. 814; Gaz. vol. 145; p. 130.  
 Clothes-pan, Washboiler. J. S. Heizer. No. 910,380; Jan. 19; Sp. p. 3982; Gaz. vol. 138; p. 715.  
 Clothes-pin. J. B. Anderson. No. 914,691; Mar. 9; Sp. p. 2190; Gaz. vol. 140; p. 367.  
 Clothes-pin. E. B. Everett. No. 917,273; Apr. 6; Sp. p. 647; Gaz. vol. 141; p. 110.  
 Clothes-pin. S. J. Johnson. No. 917,950; Apr. 13; Sp. p. 1993; Gaz. vol. 141; p. 363.  
 Clothes-pin. J. A. Freese. No. 927,849; July 13; Sp. p. 2396; Gaz. vol. 144; p. 410.  
 Clothes-pin. F. H. Perry. No. 929,703; Aug. 3; Sp. p. 132; Gaz. vol. 145; p. 23.  
 Clothes-pin. J. A. Zerbe. No. 930,912; Aug. 10; Sp. p. 2663; Gaz. vol. 145; p. 456.  
 Clothes-pin. A. C. French. No. 942,725; Dec. 7; Sp. p. 1438; Gaz. vol. 149; p. 235.  
 Clothes-pin. J. F. Norman. No. 942,971; Dec. 14; Sp. p. 2019; Gaz. vol. 149; p. 349.  
 Clothes-pin holder. E. B. Williams. No. 918,408; Apr. 13; Sp. p. 2928; Gaz. vol. 141; p. 516.  
 Clothes-pin-making machine. A. Smith. No. 918,708; Apr. 20; Sp. p. 3645; Gaz. vol. 141; p. 646.  
 Clothes-pin receptacle. B. Hill. No. 929,430; July 27; Sp. p. 5658; Gaz. vol. 144; p. 993.  
 Clothes-pin, Reinforced. G. Langgans. No. 937,823; Oct. 26; Sp. p. 4635; Gaz. vol. 147; p. 803.  
 Clothes-pole, Telescopic. A. J. Murch. No. 918,579; Apr. 20; Sp. p. 3303; Gaz. vol. 141; p. 600.  
 Clothes-pounder. R. H. Standing. No. 908,621; Jan. 5; Sp. p. 399; Gaz. vol. 138; p. 65.  
 Clothes-pounder. R. S. Harrington. No. 919,164; Apr. 20; Sp. p. 4541; Gaz. vol. 141; p. 794.  
 Clothes-pounder. J. Q. Deal. No. 923,414; June 1; Sp. p. 690; Gaz. vol. 143; p. 101.  
 Clothes-pounder. E. R. Crooker. No. 930,733; Aug. 10; Sp. p. 2282; Gaz. vol. 145; p. 396.  
 Clothes-pounder. L. E. Van Landingham. No. 935,949; Oct. 5; Sp. p. 743; Gaz. vol. 147; p. 110.  
 Clothes-pounder. E. W. Lynch. No. 940,699; Nov. 23; Sp. p. 5004; Gaz. vol. 148; p. 854.  
 Clothes-pounder. C. A. Robertson. No. 942,462; Dec. 7; Sp. p. 914; Gaz. vol. 149; p. 147.  
 Clothes-press, Steam. A. J. Hoffman. No. 939,025; Nov. 2; Sp. p. 1239; Gaz. vol. 148; p. 198.  
 Clothes-pressing apparatus. A. J. Hoffman. No. 928,199; July 20; Sp. p. 3093; Gaz. vol. 144; p. 527.  
 Clothes-rack. J. N. Wheeler. No. 910,250; Jan. 19; Sp. p. 3702; Gaz. vol. 138; p. 671.  
 Clothes-rack. A. D. Daniel. No. 913,106; Feb. 23; Sp. p. 4289; Gaz. vol. 139; p. 778.

*Alphabetical list of inventions—Continued.*

- Clothes-rack. W. L. Smalley. No. 927,082; July 6; Sp. p. 813; Gaz. vol. 144; p. 129.  
 Clothes-rack arms, Cabinet for. A. A. Taylor. No. 928,081; July 13; Sp. p. 2855; Gaz. vol. 144; p. 487.  
 Clothes-rack, Foldable. E. H. Melvain and J. A. Key. No. 922,803; May 25; Sp. p. 5572; Gaz. vol. 142; p. 978.  
 Clothes-rack, Folding. L. W. Addison and L. T. Army. No. 925,413; June 15; Sp. p. 4853; Gaz. vol. 143; p. 829.  
 Clothes-rack, Folding. E. M. Blanck. No. 936,080; Oct. 5; Sp. p. 1018; Gaz. vol. 147; p. 154.  
 Clothes-rack, Suspended. B. B. Bosworth. No. 941,909; Nov. 30; Sp. p. 7610; Gaz. vol. 148; p. 1281.  
 Clothes-reel. R. W. Robinson. No. 940,729; Nov. 23; Sp. p. 5068; Gaz. vol. 148; p. 865.  
 Clothes-steamer. W. B. Grover. No. 915,763; Mar. 23; Sp. p. 4368; Gaz. vol. 140; p. 776.  
 Clothes-stick. J. Johnston. No. 927,546; July 13; Sp. p. 1728; Gaz. vol. 144; p. 309.  
 Clothes-stick. J. B. Hays. No. 932,276; Aug. 24; Sp. p. 5613; Gaz. vol. 145; p. 958.  
 Clothes-washer. A. A. Brooks and F. D. Crooker. No. 934,501; Sept. 21; Sp. p. 3086; Gaz. vol. 146; p. 538.  
 Clothes-wringer. S. Varney. No. 915,513; Mar. 16; Sp. p. 3811; Gaz. vol. 140; p. 663.  
 Clothes-wringer. R. Walther, Jr., and W. H. Scherer. No. 938,358; Oct. 26; Sp. p. 5803; Gaz. vol. 147; p. 985.  
 Clothes-wringer. A. Lovett. No. 942,001; Nov. 30; Sp. p. 7784; Gaz. vol. 148; p. 1311.  
 Clothes-wringer swinging support. C. E. Ramby and W. H. Reichard. No. 927,279; July 6; Sp. p. 1183; Gaz. vol. 144; p. 194.  
 Clothing-case. J. C. Cunningham. No. 925,872; June 22; Sp. p. 5847; Gaz. vol. 143; p. 1011.  
 Clover-huller. J. C. Kistler. No. 934,406; Sept. 14; Sp. p. 2896; Gaz. vol. 146; p. 484.  
 Clover-seed-bunch trip device. O. L. Keiser. No. 915,773; Mar. 23; Sp. p. 4393; Gaz. vol. 140; p. 780.  
 Cluster-socket. W. C. Jones. No. 934,541; Sept. 21; Sp. p. 3154; Gaz. vol. 146; p. 550.  
 Cluster, Wireless. R. B. Benjamin. No. 938,631; Nov. 2; Sp. p. 417; Gaz. vol. 148; p. 63.  
 Clutch. E. Bodmer. No. 912,358; Feb. 16; Sp. p. 2756; Gaz. vol. 139; p. 502.  
 Clutch. E. H. Sherbondy. No. 912,741; Feb. 16; Sp. p. 3595; Gaz. vol. 139; p. 634.  
 Clutch. P. A. Geary. No. 913,279; Feb. 23; Sp. p. 4652; Gaz. vol. 139; p. 834.  
 Clutch. L. C. Freeman and B. B. Neuteboom. No. 913,370; Feb. 23; Sp. p. 4837; Gaz. vol. 139; p. 866.  
 Clutch. J. C. Potter and J. Johnston. No. 916,195; Mar. 23; Sp. p. 5165; Gaz. vol. 140; p. 914.  
 Clutch. E. C. Smith. No. 916,377; Mar. 23; Sp. p. 5498; Gaz. vol. 140; p. 976.  
 Clutch. M. Flather. No. 918,838; Apr. 20; Sp. p. 3903; Gaz. vol. 141; p. 688.  
 Clutch. T. F. Philippi. No. 920,176; May 4; Sp. p. 165; Gaz. vol. 142; p. 26.  
 Clutch. L. Atwood. No. 923,613; June 1; Sp. p. 1126; Gaz. vol. 143; p. 172.  
 Clutch. L. Bauroth. No. 924,306; June 8; Sp. p. 2650; Gaz. vol. 143; p. 431.  
 Clutch. J. M. Van Dyke and F. R. Rowell. No. 924,404; June 8; Sp. p. 2838; Gaz. vol. 143; p. 463.  
 Clutch. W. Dennis. No. 925,760; June 22; Sp. p. 5608; Gaz. vol. 143; p. 973.  
 Clutch. J. A. Sharp. No. 925,957; June 22; Sp. p. 6009; Gaz. vol. 143; p. 1038.  
 Clutch. C. Schmidt. No. 926,141; June 29; Sp. p. 6391; Gaz. vol. 143; p. 1134.  
 Clutch. C. W. Hart. No. 926,184; June 29; Sp. p. 6504; Gaz. vol. 143; p. 1150.  
 Clutch. C. P. Hollister. No. 928,656; July 20; Sp. p. 4067; Gaz. vol. 144; p. 709.  
 Clutch. J. Schneider. No. 931,500; Aug. 17; Sp. p. 3956; Gaz. vol. 145; p. 682.  
 Clutch. M. H. Fischer. (Reissue.) No. 13,009; Aug. 17; Sp. p. 4414; Gaz. vol. 145; p. 749.  
 Clutch. A. C. Mather. No. 932,155; Aug. 24; Sp. p. 5377; Gaz. vol. 145; p. 917.  
 Clutch. H. C. La Batt. No. 932,558; Aug. 31; Sp. p. 6191; Gaz. vol. 145; p. 1073.  
 Clutch. H. E. Coffin. No. 935,644; Oct. 5; Sp. p. 34; Gaz. vol. 147; p. 7.  
 Clutch. T. H. Gerrard. No. 940,002; Nov. 16; Sp. p. 3422; Gaz. vol. 148; p. 590.  
 Clutch. W. S. Hovey and C. B. Stebbins. No. 940,970; Nov. 23; Sp. p. 5576; Gaz. vol. 148; p. 944.  
 Clutch. F. P. Huyck. No. 941,349; Nov. 23; Sp. p. 6389; Gaz. vol. 148; p. 1068.  
 Clutch. G. W. Brubaker, Jr. No. 941,973; Nov. 30; Sp. p. 7732; Gaz. vol. 148; p. 1302.  
 Clutch. T. White. No. 943,208; Dec. 14; Sp. p. 2528; Gaz. vol. 149; p. 428.  
 Clutch-actuating mechanism. B. M. W. Hanson. No. 909,894; Jan. 19; Sp. p. 2944; Gaz. vol. 138; p. 548.  
 Clutch-actuating mechanism. B. M. W. Hanson. No. 939,192; Nov. 2; Sp. p. 1588; Gaz. vol. 148; p. 257.  
 Clutch and brake mechanism. F. S. Ellett and C. E. Forsyth. No. 923,254; June 1; Sp. p. 292; Gaz. vol. 143; p. 46.  
 Clutch and governor, Combined. F. H. Parker. No. 937,851; Oct. 26; Sp. p. 4698; Gaz. vol. 147; p. 813.  
 Clutch and mechanism therefor. W. H. Tschantz. No. 918,610; Apr. 20; Sp. p. 3375; Gaz. vol. 141; p. 611.  
 Clutch and speed-regulator, Oil-. H. Dotzer. No. 923,956; June 8; Sp. p. 1886; Gaz. vol. 143; p. 315.  
 Clutch, Car cable-. H. S. Robinson. No. 931,089; Aug. 17; Sp. p. 3088; Gaz. vol. 145; p. 542.  
 Clutch, Combined friction and jaw. C. S. Hook. No. 930,859; Aug. 10; Sp. p. 2538; Gaz. vol. 145; p. 438.  
 Clutch device. W. H. Pike, Jr. No. 912,165; Feb. 9; Sp. p. 2317; Gaz. vol. 139; p. 401.  
 Clutch-device safety appliance. K. J. Smith. No. 937,481; Oct. 19; Sp. p. 3950; Gaz. vol. 147; p. 671.  
 Clutch, Driving and brake. F. T. Gottschalk. No. 939,411; Nov. 9; Sp. p. 2156; Gaz. vol. 148; p. 358.  
 Clutch driving mechanism, Controlling means for electrical. A. P. Steckel. No. 934,104; Sept. 14; Sp. p. 2317; Gaz. vol. 146; p. 380.  
 Clutch electric control, Friction-. H. M. Abernethy. No. 936,284; Oct. 12; Sp. p. 1405; Gaz. vol. 147; p. 243.  
 Clutch, &c., Electrical. A. P. Steckel. No. 908,707; Jan. 5; Sp. p. 591; Gaz. vol. 138; p. 92.  
 Clutch, Electromagnetic. H. Ast. No. 914,375; Mar. 9; Sp. p. 1546; Gaz. vol. 140; p. 263.  
 Clutch for concentric rotary parts. F. S. Ellett. No. 934,597; Sept. 21; Sp. p. 3262; Gaz. vol. 146; p. 569.  
 Clutch for transom-rods. N. G. Pilcher. No. 935,545; Sept. 28; Sp. p. 5188; Gaz. vol. 146; p. 910.  
 Clutch for wire-blocks. J. H. Reece. No. 944,346; Dec. 23; Sp. p. 4952; Gaz. vol. 149; p. 873.  
 Clutch, Friction-. B. M. W. Hanson. No. 909,891; Jan. 19; Sp. p. 2938; Gaz. vol. 138; p. 547.  
 Clutch, Friction-. F. J. Lemley. No. 911,415; Feb. 2; Sp. p. 758; Gaz. vol. 139; p. 132.  
 Clutch, Friction-. A. Charvin. No. 914,112; Mar. 2; Sp. p. 979; Gaz. vol. 140; p. 154.  
 Clutch, Friction-. A. N. Woods. No. 916,086; Mar. 23; Sp. p. 4967; Gaz. vol. 140; p. 880.  
 Clutch, Friction-. H. Druschel. No. 916,682; Mar. 30; Sp. p. 6142; Gaz. vol. 140; p. 1101.  
 Clutch, Friction-. H. Horsfall. No. 917,764; Apr. 13; Sp. p. 1613; Gaz. vol. 141; p. 300.  
 Clutch, Friction-. C. K. Tripp. No. 919,401; Apr. 27; Sp. p. 5236; Gaz. vol. 141; p. 907.  
 Clutch, Friction-. J. E. Shearer. No. 923,900; June 8; Sp. p. 1786; Gaz. vol. 143; p. 297.  
 Clutch, Friction-. H. R. Stacks. No. 924,397; June 8; Sp. p. 2827; Gaz. vol. 143; p. 460.  
 Clutch, Friction-. G. W. Starr. No. 924,850; June 15; Sp. p. 3768; Gaz. vol. 143; p. 645.  
 Clutch, Friction-. H. A. Krueger. No. 928,671; July 20; Sp. p. 4098; Gaz. vol. 144; p. 714.  
 Clutch, Friction-. A. Lint. No. 928,871; July 20; Sp. p. 4485; Gaz. vol. 144; p. 781.  
 Clutch, Friction-. A. L. Smith. No. 932,340; Aug. 24; Sp. p. 5734; Gaz. vol. 145; p. 978.  
 Clutch, Friction-. G. E. Titcomb. No. 932,356; Aug. 24; Sp. p. 5761; Gaz. vol. 145; p. 983.  
 Clutch, Friction-. N. W. Baechle. No. 932,668; Aug. 31; Sp. p. 6445; Gaz. vol. 145; p. 1111.  
 Clutch, Friction-. M. S. Slaght and T. J. Kelly. No. 933,494; Sept. 7; Sp. p. 1106; Gaz. vol. 146; p. 158.  
 Clutch, Friction-. W. A. E. Henrici. No. 935,909; Oct. 5; Sp. p. 662; Gaz. vol. 147; p. 96.  
 Clutch, Friction-. C. Tuckfield. No. 936,190; Oct. 5; Sp. p. 1235; Gaz. vol. 147; p. 187.  
 Clutch, Friction-. P. Evans. No. 940,679; Nov. 23; Sp. p. 4964; Gaz. vol. 148; p. 847.  
 Clutch, Friction-. H. A. Cumfer. No. 942,056; Dec. 7; Sp. p. 29; Gaz. vol. 149; p. 7.  
 Clutch, Friction-. P. B. Marfield. No. 942,452; Dec. 7; Sp. p. 875; Gaz. vol. 149; p. 143.  
 Clutch, Friction-. A. Lint. No. 942,574; Dec. 7; Sp. p. 1136; Gaz. vol. 149; p. 184.  
 Clutch, Friction-. J. M. Kroyer. No. 943,977; Dec. 21; Sp. p. 4179; Gaz. vol. 149; p. 723.  
 Clutch, Frictional. W. H. Haggard. No. 938,317; Oct. 26; Sp. p. 5697; Gaz. vol. 147; p. 970.  
 Clutch, Hydraulic. F. De Coligny. No. 933,233; Sept. 7; Sp. p. 462; Gaz. vol. 146; p. 71.  
 Clutch, Interlocking friction-. F. B. Smith. No. 920,203; May 4; Sp. p. 228; Gaz. vol. 142; p. 36.  
 Clutch machine, Electrical-. W. T. Price. No. 919,460; Apr. 27; Sp. p. 5373; Gaz. vol. 141; p. 927.  
 Clutch, Magnetic. H. W. Ravenshaw. No. 942,186; Dec. 7; Sp. p. 340; Gaz. vol. 149; p. 52.  
 Clutch, Magnetic. H. W. Ravenshaw. No. 942,187; Dec. 7; Sp. p. 342; Gaz. vol. 149; p. 52.  
 Clutch, Magnetic. H. W. Ravenshaw. No. 942,867; Dec. 7; Sp. p. 1741; Gaz. vol. 149; p. 282.  
 Clutch, Mechanical. C. F. Kettering. No. 923,857; June 8; Sp. p. 1707; Gaz. vol. 143; p. 283.  
 Clutch mechanism. J. Maitland. No. 909,810; Jan. 12; Sp. p. 2770; Gaz. vol. 138; p. 488.  
 Clutch mechanism. T. Bossard. No. 910,353; Jan. 19; Sp. p. 3930; Gaz. vol. 138; p. 707.  
 Clutch mechanism. H. D. Lauson. No. 918,562; Apr. 20; Sp. p. 3264; Gaz. vol. 141; p. 595.  
 Clutch mechanism. C. L. Whaley. No. 919,101; Apr. 20; Sp. p. 4426; Gaz. vol. 141; p. 773.  
 Clutch mechanism. Z. P. Candee. No. 920,726; May 4; Sp. p. 1297; Gaz. vol. 142; p. 208.  
 Clutch mechanism. J. F. Duryea and W. M. Remington. No. 920,841; May 4; Sp. p. 1512; Gaz. vol. 142; p. 245.



*Alphabetical list of inventions—Continued.*

- Clutch mechanism. F. D. Platter. No. 921,628; May 11; Sp. p. 3157; Gaz. vol. 142; p. 539.  
 Clutch mechanism. A. F. Jackson. No. 923,180; June 1; Sp. p. 130; Gaz. vol. 143; p. 21.  
 Clutch mechanism. C. R. Gether. No. 923,965; June 8; Sp. p. 1908; Gaz. vol. 143; p. 319.  
 Clutch mechanism. B. S. Truxal. No. 929,521; July 27; Sp. p. 5821; Gaz. vol. 144; p. 1022.  
 Clutch mechanism. V. J. Emery. No. 936,102; Oct. 5; Sp. p. 1059; Gaz. vol. 147; p. 161.  
 Clutch mechanism. V. Szűcs. No. 937,556; Oct. 19; Sp. p. 4104; Gaz. vol. 147; p. 698.  
 Clutch mechanism. J. Boda. No. 942,244; Dec. 7; Sp. p. 464; Gaz. vol. 149; p. 72.  
 Clutch mechanism for automobiles and for other applications, Friction-. A. Balloca. No. 934,264; Sept. 14; Sp. p. 2628; Gaz. vol. 146; p. 436.  
 Clutch mechanism for printing, stamping, and die presses and the like, Friction-. M. Rockstroh. No. 931,651; Aug. 17; Sp. p. 4258; Gaz. vol. 145; p. 727.  
 Clutch mechanism, Friction-. E. R. Klemm. No. 917,312; Apr. 6; Sp. p. 732; Gaz. vol. 141; p. 125.  
 Clutch mechanism, Motor-vehicle. R. H. Bowman. No. 923,938; June 8; Sp. p. 1851; Gaz. vol. 143; p. 308.  
 Clutch member. E. M. Cook. No. 930,270; Aug. 3; Sp. p. 1314; Gaz. vol. 145; p. 217.  
 Clutch-operating mechanism. H. L. Turney. No. 914,536; Mar. 9; Sp. p. 1860; Gaz. vol. 140; p. 317.  
 Clutch or brake, Friction. A. P. Brush. No. 930,726; Aug. 10; Sp. p. 2264; Gaz. vol. 145; p. 394.  
 Clutch or brake, Magnetic. H. W. Ravenshaw. No. 942,188; Dec. 7; Sp. p. 343; Gaz. vol. 149; p. 52.  
 Clutch, Pneumatic. J. C. Garrett. No. 927,229; July 6; Sp. p. 1092; Gaz. vol. 144; p. 177.  
 Clutch, Pulley-. A. H. Cameron. No. 939,663; Nov. 9; Sp. p. 2696; Gaz. vol. 148; p. 444.  
 Clutch-shifting mechanism for fertilizer-distributors, &c. J. Boda. No. 930,456; Aug. 10; Sp. p. 1675; Gaz. vol. 145; p. 303.  
 Clutch-shipping mechanism. J. W. Latimer. No. 914,336; Dec. 28; Sp. p. 4931; Gaz. vol. 149; p. 869.  
 Clutch-shoe. R. M. Sellers. No. 924,944; June 15; Sp. p. 3962; Gaz. vol. 143; p. 677.  
 Clutch throw-out. H. A. Hancock. No. 919,006; Apr. 20; Sp. p. 4259; Gaz. vol. 141; p. 744.  
 Clutch, Variable-speed transmission-. D. George. No. 934,604; Sept. 21; Sp. p. 3283; Gaz. vol. 146; p. 572.  
 Clutch, Wire-. C. Schroder. No. 937,097; Oct. 19; Sp. p. 3103; Gaz. vol. 147; p. 545.  
 Clutches, Arrangement of windings for electromagnetic. H. Ast. No. 918,254; Apr. 13; Sp. p. 2636; Gaz. vol. 141; p. 467.  
 Clutches, Duplex thrust device for friction-. A. Lambert. No. 938,772; Nov. 2; Sp. p. 687; Gaz. vol. 148; p. 110.  
 Coal and other carbonaceous substances, Retort for the distillation of. T. Parker. No. 913,552; Feb. 23; Sp. p. 5238; Gaz. vol. 139; p. 928.  
 Coal and slate separator. H. Mathewson. No. 920,972; May 11; Sp. p. 1792; Gaz. vol. 142; p. 318.  
 Coal and the like, Apparatus for trimming and elevating. R. Brown. No. 922,387; May 18; Sp. p. 4702; Gaz. vol. 142; p. 814.  
 Coal and the waste materials thereof, Apparatus for briquetting fine. G. B. Damon. No. 914,247; Mar. 2; Sp. p. 1262; Gaz. vol. 140; p. 197.  
 Coal and the waste materials thereof, Briquetting. G. B. Damon. No. 914,248; Mar. 2; Sp. p. 1268; Gaz. vol. 140; p. 197.  
 Coal, Briquetting. C. E. Hite. No. 941,454; Nov. 30; Sp. p. 6645; Gaz. vol. 148; p. 1126.  
 Coal-cutting machine. E. Jones and J. Hall. No. 928,056; July 13; Sp. p. 2817; Gaz. vol. 144; p. 480.  
 Coal-cutting machine. L. Schütt. No. 931,017; Aug. 10; Sp. p. 2909; Gaz. vol. 145; p. 489.  
 Coal-cutting machines, Dust-preventive attachment for. A. E. Wood. No. 908,928; Jan. 5; Sp. p. 1021; Gaz. vol. 138; p. 164.  
 Coal-distributing apparatus. S. B. Fleming. No. 924,332; June 8; Sp. p. 2703; Gaz. vol. 143; p. 440.  
 Coal-drill. J. S. Surbaugh. No. 914,893; Mar. 9; Sp. p. 2600; Gaz. vol. 140; p. 434.  
 Coal-dust burner. J. W. Zell. No. 942,696; Dec. 7; Sp. p. 1369; Gaz. vol. 149; p. 225.  
 Coal from vehicles, Device for unloading and delivering. G. E. Chalfant. No. 922,390; May 18; Sp. p. 4707; Gaz. vol. 142; p. 815.  
 Coal-gasifying furnace. H. Ries. No. 922,042; May 18; Sp. p. 4017; Gaz. vol. 142; p. 702.  
 Coal-handling apparatus. G. W. Freeland. No. 928,595; July 20; Sp. p. 3947; Gaz. vol. 144; p. 688.  
 Coal-handling apparatus. A. C. Stewart. No. 929,993; Aug. 3; Sp. p. 788; Gaz. vol. 145; p. 126.  
 Coal-hod. A. T. Robinson. No. 935,409; Sept. 28; Sp. p. 4892; Gaz. vol. 146; p. 865.  
 Coal-hole covers, Locking device for. H. Dahm. No. 909,873; Jan. 19; Sp. p. 2905; Gaz. vol. 138; p. 540.  
 Coal-leveling machine. C. Rouse and N. C. Neemes. No. 916,200; Mar. 23; Sp. p. 5173; Gaz. vol. 140; p. 916.  
 Coal-loading apparatus. W. Larsen. No. 938,879; Nov. 2; Sp. p. 931; Gaz. vol. 148; p. 147.  
 Coal-mines and other places, Respiration apparatus for use in. W. E. Garforth. No. 911,339; Feb. 2; Sp. p. 715; Gaz. vol. 139; p. 123.  
 Coal or ore washer. E. Prochaska. No. 942,461; Dec. 7; Sp. p. 911; Gaz. vol. 149; p. 146.  
 Coal or rock drill. G. G. Mayer and R. Ashton. No. 914,966; Mar. 9; Sp. p. 2715; Gaz. vol. 140; p. 457.  
 Coal or stone drilling machine. A. Ball. No. 920,007; Apr. 27; Sp. p. 6506; Gaz. vol. 141; p. 1110.  
 Coal-picking table. J. E. Jones. No. 927,412; July 6; Sp. p. 1420; Gaz. vol. 144; p. 236.  
 Coal-puncher or mining-machine, Electric. J. H. Thompson. No. 922,736; May 25; Sp. p. 5437; Gaz. vol. 142; p. 957.  
 Coal-scuttle. D. O. Hedges. No. 931,300; Aug. 17; Sp. p. 3564; Gaz. vol. 145; p. 615.  
 Coal-separator. N. Mowery. No. 936,015; Oct. 5; Sp. p. 877; Gaz. vol. 147; p. 132.  
 Coal-separator, Centrifugal dry. A. Ernst. No. 942,251; Dec. 7; Sp. p. 477; Gaz. vol. 149; p. 74.  
 Coal-tipple. J. S. Pates. No. 913,555; Feb. 23; Sp. p. 5241; Gaz. vol. 139; p. 929.  
 Coal-tipple. E. E. Bull. No. 914,698; Mar. 9; Sp. p. 2204; Gaz. vol. 140; p. 370.  
 Coal-washer. F. R. Willson, Jr. No. 933,808; Sept. 14; Sp. p. 1717; Gaz. vol. 146; p. 285.  
 Coaster. J. A. Musgrove, Jr. No. 917,640; Apr. 6; Sp. p. 1319; Gaz. vol. 141; p. 233.  
 Coaster. G. Losonczy. No. 932,303; Aug. 24; Sp. p. 5666; Gaz. vol. 145; p. 966.  
 Coaster and bottle-opener. E. A. Parker. No. 937,850; Oct. 26; Sp. p. 4697; Gaz. vol. 147; p. 813.  
 Coaster and brake device. A. P. Morrow. No. 931,787; Aug. 24; Sp. p. 4588; Gaz. vol. 145; p. 795.  
 Coaster-brake. F. S. Ellett. No. 921,653; May 11; Sp. p. 3213; Gaz. vol. 142; p. 549.  
 Coaster-brake. P. P. O'Horo. (Reissue.) No. 13,023; Sept. 28; Sp. p. 5354; Gaz. vol. 146; p. 940.  
 Coaster-brake. C. A. Baylor. No. 942,479; Dec. 7; Sp. p. 946; Gaz. vol. 149; p. 153.  
 Coaster-brake, Back-pedaling. F. S. Ellett. No. 908,455; Jan. 5; Sp. p. 45; Gaz. vol. 138; p. 10.  
 Coaster-brake, Back-pedaling. A. P. Morrow. No. 911,835; Feb. 9; Sp. p. 1584; Gaz. vol. 139; p. 294.  
 Coaster-brake, Back-pedaling. F. S. Ellett. No. 924,973; June 15; Sp. p. 4037; Gaz. vol. 143; p. 687.  
 Coaster-brake, Back-pedaling. F. S. Ellett. No. 925,085; June 15; Sp. p. 4251; Gaz. vol. 143; p. 723.  
 Coaster, Wheel-. L. R. Valentine. No. 928,716; July 20; Sp. p. 4180; Gaz. vol. 144; p. 728.  
 Coasting-record device. F. Hedley and J. S. Doyle. No. 940,810; Nov. 23; Sp. p. 5252; Gaz. vol. 148; p. 891.  
 Coat. M. A. Adler. No. 928,017; July 13; Sp. p. 2726; Gaz. vol. 144; p. 465.  
 Coat. H. H. Stanford. No. 930,569; Aug. 10; Sp. p. 1944; Gaz. vol. 145; p. 343.  
 Coat. G. W. Davis. No. 934,049; Sept. 14; Sp. p. 2191; Gaz. vol. 146; p. 362.  
 Coat. R. E. Peary. No. 936,805; Oct. 12; Sp. p. 2518; Gaz. vol. 147; p. 420.  
 Coat and hat hook. R. W. Hubbard. No. 921,703; May 18; Sp. p. 3320; Gaz. vol. 142; p. 591.  
 Coat-fastening means. W. S. Barker. No. 931,250; Aug. 17; Sp. p. 3440; Gaz. vol. 145; p. 597.  
 Coat-hanger. S. W. Bonsall. No. 920,894; May 4; Sp. p. 1640; Gaz. vol. 142; p. 262.  
 Coat-hanger. I. Geraci. No. 923,786; June 1; Sp. p. 1528; Gaz. vol. 143; p. 230.  
 Coat-hanger. L. Trestman. No. 932,357; Aug. 24; Sp. p. 5762; Gaz. vol. 145; p. 984.  
 Coat-hanger. G. G. Gershon. No. 937,233; Oct. 19; Sp. p. 3408; Gaz. vol. 147; p. 590.  
 Coat-hanger attachment. N. E. Weigle. No. 926,794; July 6; Sp. p. 178; Gaz. vol. 144; p. 29.  
 Coat hanger or suspender. W. Wall. No. 919,501; Apr. 27; Sp. p. 5488; Gaz. vol. 141; p. 943.  
 Coat, Inflatable. F. F. Hodgkins. No. 932,608; Aug. 31; Sp. p. 6319; Gaz. vol. 145; p. 1091.  
 Coat-pad. C. W. Schweichler. No. 929,028; July 27; Sp. p. 4813; Gaz. vol. 144; p. 860.  
 Coat-shirt. G. Becker. No. 925,269; June 15; Sp. p. 4596; Gaz. vol. 143; p. 785.  
 Coated article and making same. H. Shoemaker and F. W. Midgley. No. 928,074; July 13; Sp. p. 2845; Gaz. vol. 144; p. 485.  
 Coating articles, Dipping process for. W. G. Scott. No. 931,503; Aug. 17; Sp. p. 3961; Gaz. vol. 145; p. 683.  
 Coating composition, Receptacle-. W. R. Long. No. 931,324; Aug. 17; Sp. p. 3611; Gaz. vol. 145; p. 623.  
 Coating device. G. H. Hardman. No. 940,593; Nov. 16; Sp. p. 4763; Gaz. vol. 148; p. 794.  
 Coating-machine. F. E. Goldsmith. No. 918,440; Apr. 13; Sp. p. 2996; Gaz. vol. 141; p. 527.  
 Coating-machine. F. E. Goldsmith. No. 926,059; June 22; Sp. p. 6206; Gaz. vol. 143; p. 1072.  
 Coating machine, Liquid-. R. A. Beausejour. No. 921,347; May 11; Sp. p. 2589; Gaz. vol. 142; p. 446.  
 Coating machines, Article-holder for liquid-. R. A. Beausejour and G. Drubel. No. 930,129; Aug. 3; Sp. p. 1072; Gaz. vol. 145; p. 173.  
 Coating-machines, Feeding and dusting device for. M. Schenck. No. 940,737; Nov. 23; Sp. p. 5085; Gaz. vol. 148; p. 868.  
 Coating machines, Holder for liquid-. R. A. Beausejour. No. 941,607; Nov. 30; Sp. p. 6947; Gaz. vol. 148; p. 1175.  
 Coating mechanism, Surface-. T. W. Kienast. No. 933,375; Sept. 7; Sp. p. 783; Gaz. vol. 146; p. 121.  
 Coating metallic surfaces. C. J. Kirk. No. 936,637; Oct. 12; Sp. p. 2196; Gaz. vol. 147; p. 363.  
 Coating or enameling apparatus. M. D. Shiverick. No. 921,292; May 11; Sp. p. 2452; Gaz. vol. 142; p. 427.  
 Coating process, Article-. J. M. Talmadge. No. 933,598; Sept. 7; Sp. p. 1301; Gaz. vol. 146; p. 193.  
 Coating sheet metal, Apparatus for. B. Goldsmith. No. 934,519; Sept. 21; Sp. p. 3115; Gaz. vol. 146; p. 543.  
 Coating small metal articles, Metal-. E. S. Mowry. No. 933,324; Sept. 7; Sp. p. 657; Gaz. vol. 146; p. 102.

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- Coating with tin or allied metals, Electrically. J. C. Beneker. No. 921,943; May 18; Sp. p. 3806; Gaz. vol. 142; p. 970.
- Cock. T. M. Gleason. No. 912,466; Feb. 16; Sp. p. 2971; Gaz. vol. 139; p. 538.
- Cock. M. Strelezky. No. 932,188; Aug. 24; Sp. p. 5452; Gaz. vol. 145; p. 928.
- Cock. P. Mueller and A. C. Schuermann. No. 934,688; Sept. 21; Sp. p. 3455; Gaz. vol. 146; p. 602.
- Cock, Angle-. W. B. Heiniger and W. E. Vallance. No. 913,287; Feb. 23; Sp. p. 4666; Gaz. vol. 139; p. 837.
- Cock, Angle-. W. D. Kendrick. No. 943,554; Dec. 14; Sp. p. 3257; Gaz. vol. 149; p. 549.
- Cock, Automatic cylinder-. C. E. Miser. No. 913,965; Mar. 2; Sp. p. 648; Gaz. vol. 140; p. 102.
- Cock, Automatically-closing. A. O'Brien. No. 912,022; Feb. 9; Sp. p. 2046; Gaz. vol. 139; p. 356.
- Cock, Ball-. F. Clark. No. 910,171; Jan. 19; Sp. p. 3500; Gaz. vol. 138; p. 640.
- Cock, Ball-. L. B. Thoré. No. 912,632; Feb. 16; Sp. p. 3330; Gaz. vol. 139; p. 597.
- Cock, Ball-. A. C. Gordon. No. 924,345; June 8; Sp. p. 2728; Gaz. vol. 143; p. 444.
- Cock, Ball-. C. W. Weaver and P. G. Anderson. No. 925,538; June 22; Sp. p. 5113; Gaz. vol. 143; p. 900.
- Cock, Ball-. E. S. Stack. No. 935,281; Sept. 28; Sp. p. 4637; Gaz. vol. 146; p. 824.
- Cock, Ball-. H. S. Rumsey. No. 936,742; Oct. 12; Sp. p. 2397; Gaz. vol. 147; p. 399.
- Cock, Ball-. W. J. Frost. No. 938,470; Nov. 2; Sp. p. 33; Gaz. vol. 148; p. 8.
- Cock, Blow-off. J. B. Youngblood. No. 943,056; Dec. 14; Sp. p. 2241; Gaz. vol. 149; p. 380.
- Cock, Compression-. C. S. Frishmuth. No. 941,316; Nov. 23; Sp. p. 6328; Gaz. vol. 148; p. 1058.
- Cock, Compression stop and waste. R. W. Beaton. No. 911,365; Feb. 2; Sp. p. 671; Gaz. vol. 139; p. 114.
- Cock, Duplex gage-. F. Kobler. No. 915,361; Mar. 16; Sp. p. 3514; Gaz. vol. 140; p. 613.
- Cock for flushing-tanks, Ball-. H. H. Perkins. No. 909,328; Jan. 12; Sp. p. 1826; Gaz. vol. 138; p. 328.
- Cock for gas-ranges, Gas-. W. G. Burrows. No. 926,922; July 6; Sp. p. 454; Gaz. vol. 144; p. 73.
- Cock for mechanisms for heating liquids, Automatic combined gas and water. J. J. Lisch and W. L. Root. No. 934,555; Sept. 21; Sp. p. 3181; Gaz. vol. 146; p. 555.
- Cock for steam-boilers, Gage-. C. F. Waterman. No. 931,004; Aug. 10; Sp. p. 2885; Gaz. vol. 145; p. 485.
- Cock, Gage-. G. W. Collin. No. 911,379; Feb. 2; Sp. p. 694; Gaz. vol. 139; p. 119.
- Cock, Gage-. J. Olsson. No. 912,604; Feb. 16; Sp. p. 3268; Gaz. vol. 139; p. 586.
- Cock, Gage-. A. H. Jettinger. No. 916,163; Mar. 23; Sp. p. 5112; Gaz. vol. 140; p. 904.
- Cock, Gas-. C. H. Wiley. No. 915,005; Mar. 9; Sp. p. 2774; Gaz. vol. 140; p. 469.
- Cock, Gas-. A. G. Sherman. No. 916,043; Mar. 23; Sp. p. 4890; Gaz. vol. 140; p. 866.
- Cock, Gas-. J. E. Murch. No. 916,954; Mar. 30; Sp. p. 6660; Gaz. vol. 140; p. 1187.
- Cock, Gas-. R. Christ. No. 920,914; May 11; Sp. p. 1683; Gaz. vol. 142; p. 299.
- Cock, Gas-. C. W. Boyse. No. 928,898; July 20; Sp. p. 4539; Gaz. vol. 144; p. 791.
- Cock, Gas service-. J. T. Brady. No. 932,437; Aug. 31; Sp. p. 5927; Gaz. vol. 145; p. 1033.
- Cock, Non-scalding shower-bath-. D. W. McNeil. No. 942,405; Dec. 7; Sp. p. 780; Gaz. vol. 149; p. 126.
- Cock or bit, Compression. A. R. Bonfield, Jr. No. 925,679; June 22; Sp. p. 5401; Gaz. vol. 143; p. 946.
- Cock or faucet. J. D. McClelland, Jr. No. 924,920; June 15; Sp. p. 3917; Gaz. vol. 143; p. 669.
- Cock or faucet. J. W. Barry. No. 925,153; June 15; Sp. p. 4382; Gaz. vol. 143; p. 748.
- Cock or faucet, Water. B. J. Porter and T. H. Binnington. No. 932,172; Aug. 24; Sp. p. 5410; Gaz. vol. 145; p. 923.
- Cock or valve. W. H. Wakfer. No. 913,861; Mar. 2; Sp. p. 402; Gaz. vol. 140; p. 66.
- Cock or valve, Stop and waste. J. H. Glauber. No. 937,678; Oct. 19; Sp. p. 4318; Gaz. vol. 147; p. 736.
- Cock, Plug-. J. G. Paterson. No. 924,270; June 8; Sp. p. 2572; Gaz. vol. 143; p. 419.
- Cock, Quick-acting bib-. L. J. Sommer, Jr. No. 933,859; Sept. 14; Sp. p. 1835; Gaz. vol. 146; p. 303.
- Cock, Railway-car angle-. L. A. Hoerr. No. 925,103; June 15; Sp. p. 4290; Gaz. vol. 143; p. 731.
- Cock reversible index. A. C. Schuermann. No. 910,320; Jan. 19; Sp. p. 3863; Gaz. vol. 138; p. 695.
- Cock, Safety-. J. Winkler. No. 925,257; June 15; Sp. p. 4572; Gaz. vol. 143; p. 782.
- Cock, Safety-. R. Swimmer and E. B. Neelen. No. 936,581; Oct. 12; Sp. p. 2071; Gaz. vol. 147; p. 343.
- Cock, Safety gas-. O. R. Hasty. No. 931,197; Aug. 17; Sp. p. 3324; Gaz. vol. 145; p. 578.
- Cock, Safety gas-. S. Allen. No. 932,940; Aug. 31; Sp. p. 6982; Gaz. vol. 145; p. 1199.
- Cock seating-washer. J. H. Glauber. No. 928,599; July 20; Sp. p. 3959; Gaz. vol. 144; p. 690.
- Cock, Stop-. W. G. Westwater. No. 908,717; Jan. 5; Sp. p. 614; Gaz. vol. 138; p. 95.
- Cock, Stop-. A. D. Herschler. No. 909,409; Jan. 12; Sp. p. 1974; Gaz. vol. 138; p. 352.
- Cock, Stop-. H. M. Hoelscher and J. H. Gavin. No. 912,569; Feb. 16; Sp. p. 3204; Gaz. vol. 139; p. 574.
- Cock, Stop-. J. E. Van Nostran. No. 926,627; June 29; Sp. p. 7338; Gaz. vol. 143; p. 1295.
- Cock, Stop and waste. W. W. Watters. No. 911,858; Feb. 9; Sp. p. 1626; Gaz. vol. 139; p. 301.
- Cock, Stop and waste. W. H. Smith. No. 938,442; Oct. 26; Sp. p. 5985; Gaz. vol. 147; p. 1014.
- Cock, Three-way. E. H. Gold. No. 909,583; Jan. 12; Sp. p. 2324; Gaz. vol. 138; p. 412.
- Cock to prevent bursting by frost, Self-closing water-. G. Müller. No. 937,629; Oct. 19; Sp. p. 4233; Gaz. vol. 147; p. 721.
- Cock, Waste-. H. F. Schroeder. No. 925,955; June 22; Sp. p. 6003; Gaz. vol. 143; p. 1037.
- Cocks, Locking air-. J. S. Sheafe. No. 934,099; Sept. 14; Sp. p. 2306; Gaz. vol. 146; p. 378.
- Cockeye. M. R. Johnson. No. 912,132; Feb. 9; Sp. p. 2262; Gaz. vol. 139; p. 391.
- Cockeye. M. R. Vikla. No. 924,859; June 15; Sp. p. 3801; Gaz. vol. 143; p. 649.
- Cockeye. O. Simle. No. 937,104; Apr. 19; Sp. p. 3114; Gaz. vol. 147; p. 548.
- Cocoa-drying machinery. J. J. da Silveira e Paulo. No. 921,631; May 11; Sp. p. 3163; Gaz. vol. 142; p. 541.
- Cocoa-nut-grater. M. E. Hunt. No. 915,055; Mar. 16; Sp. p. 2865; Gaz. vol. 140; p. 486.
- Cable, Cable or telegraph. M. L. Sweeney. No. 916,899; Mar. 30; Sp. p. 6538; Gaz. vol. 140; p. 1167.
- Coffee and for other purposes, Machine for roasting. S. Cranston. No. 918,423; Apr. 13; Sp. p. 2955; Gaz. vol. 141; p. 521.
- Coffee and tea urn. A. G. Miller. No. 918,765; Apr. 20; Sp. p. 3746; Gaz. vol. 141; p. 665.
- Coffee cleaning and grading machine. E. C. Smith. No. 940,989; Nov. 23; Sp. p. 5509; Gaz. vol. 148; p. 950.
- Coffee free from caffeine, Obtaining. K. H. Wimmer. No. 936,392; Oct. 12; Sp. p. 1652; Gaz. vol. 147; p. 280.
- Coffee-grinder. I. E. Brandrick. No. 934,590; Sept. 21; Sp. p. 3252; Gaz. vol. 146; p. 567.
- Coffee-machine. C. Nelson. No. 938,605; Nov. 2; Sp. p. 372; Gaz. vol. 148; p. 55.
- Coffee-mill. W. W. Dryden. No. 913,475; Feb. 23; Sp. p. 5043; Gaz. vol. 139; p. 901.
- Coffee-mill. A. E. Bronson, Jr. No. 921,074; May 11; Sp. p. 2007; Gaz. vol. 142; p. 353.
- Coffee-mill. B. C. Holwick. No. 927,971; July 13; Sp. p. 2648; Gaz. vol. 144; p. 450.
- Coffee-mill. M. Höll. No. 935,153; Sept. 28; Sp. p. 4385; Gaz. vol. 146; p. 783.
- Coffee or spice mill. A. A. Warner. No. 933,008; Aug. 31; Sp. p. 7100; Gaz. vol. 145; p. 1221.
- Coffee or tea container. W. Kingsbury. No. 916,327; Mar. 23; Sp. p. 5400; Gaz. vol. 140; p. 959.
- Coffee-percolator. J. D. Houck. No. 919,583; Apr. 27; Sp. p. 5644; Gaz. vol. 141; p. 970.
- Coffee-percolator bag. I. Norwood. No. 933,917; Sept. 14; Sp. p. 1953; Gaz. vol. 146; p. 321.
- Coffee-pot. T. J. Clement. No. 929,388; July 27; Sp. p. 5595; Gaz. vol. 144; p. 981.
- Coffee-pot. M. Davidson. No. 929,754; Aug. 3; Sp. p. 253; Gaz. vol. 145; p. 44.
- Coffee-pot. J. A. Holmgren. No. 942,558; Dec. 7; Sp. p. 1108; Gaz. vol. 149; p. 180.
- Coffee-pot. C. F. Blanke. No. 943,512; Dec. 14; Sp. p. 3182; Gaz. vol. 149; p. 535.
- Coffee-pot, China. C. F. Blanke. No. 909,528; Jan. 12; Sp. p. 2214; Gaz. vol. 138; p. 393.
- Coffee-roaster. A. Landry. No. 912,136; Feb. 9; Sp. p. 2268; Gaz. vol. 139; p. 393.
- Coffee-roaster. E. E. Burnham. No. 920,428; May 4; Sp. p. 692; Gaz. vol. 142; p. 109.
- Coffee-roaster. N. T. Coley. No. 928,500; July 20; Sp. p. 3732; Gaz. vol. 144; p. 657.
- Coffee-roaster. L. Breyer. No. 934,137; Sept. 14; Sp. p. 2397; Gaz. vol. 146; p. 392.
- Coffee-roasting. E. and G. De Mattia. No. 943,238; Dec. 14; Sp. p. 2595; Gaz. vol. 149; p. 439.
- Coffee-urn. O. A. Nenninger. No. 914,302; Mar. 2; Sp. p. 1378; Gaz. vol. 140; p. 214.
- Coffee-urn. E. C. Dalleine. No. 918,974; Apr. 20; Sp. p. 4204; Gaz. vol. 141; p. 734.
- Cofferdam. A. C. Leow. No. 924,362; June 8; Sp. p. 2760; Gaz. vol. 143; p. 450.
- Coffin. J. Donahue. No. 925,311; June 15; Sp. p. 4675; Gaz. vol. 143; p. 798.
- Coffin-box. J. A. Cook. No. 912,078; Feb. 9; Sp. p. 2166; Gaz. vol. 139; p. 375.
- Coffin-box mold. E. W. Ellington. No. 926,554; June 29; Sp. p. 7190; Gaz. vol. 143; p. 1271.
- Coherer. F. G. Sargent. No. 908,504; Jan. 5; Sp. p. 147; Gaz. vol. 138; p. 26.
- Coherer. W. W. Massie. No. 932,799; Aug. 31; Sp. p. 6728; Gaz. vol. 145; p. 1154.
- Coil. C. Schrader. No. 926,964; July 6; Sp. p. 537; Gaz. vol. 144; p. 88.
- Coil-forming machine. W. D. Pomeroy. No. 937,328; Oct. 19; Sp. p. 3590; Gaz. vol. 147; p. 620.
- Coil-support. I. L. Griffith. No. 936,622; Oct. 12; Sp. p. 2168; Gaz. vol. 147; p. 358.
- Coil-winding apparatus. H. B. Smith. No. 933,792; Sept. 14; Sp. p. 1689; Gaz. vol. 146; p. 280.



*Alphabetical list of inventions—Continued.*

- Coil-winding machine. F. Mueller. No. 933,778; Sept. 14; Sp. p. 1666; Gaz. vol. 146; p. 275.
- Coiling pipe. L. C. Schneider. No. 928,073; July 13; Sp. p. 2842; Gaz. vol. 144; p. 484.
- Coin-actuated mechanism. M. L. Buck. No. 930,457; Aug. 10; Sp. p. 1680; Gaz. vol. 145; p. 303.
- Coin assorting, stacking, and counting machine. B. F. Brewster. No. 918,273; Apr. 13; Sp. p. 2668; Gaz. vol. 141; p. 473.
- Coin-changing machine, Automatic. J. D. Carney. No. 929,550; July 27; Sp. p. 5873; Gaz. vol. 144; p. 1032.
- Coin-chute. G. W. Peter. No. 929,165; July 27; Sp. p. 5101; Gaz. vol. 144; p. 906.
- Coin-collector. A. M. Farnsworth. No. 941,509; Nov. 30; Sp. p. 6759; Gaz. vol. 148; p. 1145.
- Coin-collector circuit. J. L. McQuarrie. No. 923,877; June 8; Sp. p. 1744; Gaz. vol. 143; p. 290.
- Coin-controlled apparatus. F. Magidson. No. 918,455; Apr. 13; Sp. p. 3025; Gaz. vol. 141; p. 532.
- Coin-controlled apparatus. A. Heilmann and L. Flatow. No. 918,548; Apr. 20; Sp. p. 3238; Gaz. vol. 141; p. 591.
- Coin-controlled apparatus. F. Magidson. No. 919,904; Apr. 27; Sp. p. 6309; Gaz. vol. 141; p. 1078.
- Coin-controlled apparatus. G. A. Long. No. 932,036; Aug. 24; Sp. p. 5136; Gaz. vol. 145; p. 877.
- Coin-controlled apparatus. G. A. Long. No. 932,403; Aug. 24; Sp. p. 5848; Gaz. vol. 145; p. 998.
- Coin-controlled apparatus. G. A. Long. No. 932,404; Aug. 24; Sp. p. 5850; Gaz. vol. 145; p. 999.
- Coin-controlled apparatus. A. G. Kennel. No. 940,973; Nov. 23; Sp. p. 5584; Gaz. vol. 148; p. 945.
- Coin-controlled device. W. H. Steiger. No. 924,851; June 15; Sp. p. 3770; Gaz. vol. 143; p. 645.
- Coin-controlled lock. H. B. Meade. No. 928,613; July 20; Sp. p. 3978; Gaz. vol. 144; p. 694.
- Coin-controlled mechanism. J. C. Fredell. No. 913,278; Feb. 23; Sp. p. 4649; Gaz. vol. 139; p. 834.
- Coin-controlled mechanism. C. F. Burkhardt. No. 916,838; Mar. 30; Sp. p. 6416; Gaz. vol. 140; p. 1147.
- Coin-controlled mechanism. J. L. Ferguson. No. 917,277; Apr. 6; Sp. p. 655; Gaz. vol. 141; p. 112.
- Coin-controlled mechanism. H. Koch. No. 918,165; Apr. 13; Sp. p. 2441; Gaz. vol. 141; p. 437.
- Coin-controlled mechanism. W. M. Probasco. No. 919,948; Apr. 27; Sp. p. 6385; Gaz. vol. 141; p. 1091.
- Coin-controlled mechanism. F. Meyer. No. 921,552; May 11; Sp. p. 2985; Gaz. vol. 142; p. 513.
- Coin-controlled mechanism. B. M. Davis. No. 931,574; Aug. 17; Sp. p. 4085; Gaz. vol. 145; p. 704.
- Coin-controlled mechanism. H. R. Stouder. No. 937,337; Oct. 19; Sp. p. 3726; Gaz. vol. 147; p. 623.
- Coin counting and packaging machine, Automatic. C. L. Lilleberg. No. 915,100; Mar. 16; Sp. p. 2983; Gaz. vol. 140; p. 528.
- Coin-delivery machine. S. Randall. No. 914,510; Mar. 9; Sp. p. 1794; Gaz. vol. 140; p. 308.
- Coin-delivery machine. E. J. Brandt. No. 923,013; May 25; Sp. p. 6005; Gaz. vol. 142; p. 1046.
- Coin-deposit apparatus. C. F. Hess. No. 930,667; Aug. 10; Sp. p. 2148; Gaz. vol. 145; p. 375.
- Coin-detector. T. V. Skelly. No. 915,231; Mar. 16; Sp. p. 3265; Gaz. vol. 140; p. 571.
- Coin-detector. H. T. Werden. No. 940,568; Nov. 16; Sp. p. 4721; Gaz. vol. 148; p. 786.
- Coin detector for slot-machines, Spurious-. F. W. Klineham. No. 911,247; Feb. 2; Sp. p. 448; Gaz. vol. 139; p. 77.
- Coin-freed automatic machine. H. Hadida. No. 933,368; Sept. 7; Sp. p. 757; Gaz. vol. 146; p. 118.
- Coin-freed machine. C. E. Hibberd. No. 928,050; July 13; Sp. p. 2805; Gaz. vol. 144; p. 478.
- Coin-freed machine. C. E. Hibberd. No. 929,306; July 27; Sp. p. 5418; Gaz. vol. 144; p. 953.
- Coin-holder. E. S. Bell. No. 910,486; Jan. 26; Sp. p. 4216; Gaz. vol. 138; p. 776.
- Coin-holder. J. Fackenberg. No. 911,539; Feb. 2; Sp. p. 981; Gaz. vol. 139; p. 171.
- Coin-holder. R. W. Shaw. No. 912,423; Feb. 16; Sp. p. 2890; Gaz. vol. 139; p. 524.
- Coin-holder. W. H. Garland. No. 916,293; Mar. 23; Sp. p. 5343; Gaz. vol. 140; p. 946.
- Coin-holder. A. T. Ballenger. No. 916,652; Mar. 30; Sp. p. 6087; Gaz. vol. 140; p. 1091.
- Coin-holder. A. R. Voliva. No. 938,922; Nov. 2; Sp. p. 1041; Gaz. vol. 148; p. 165.
- Coin-holder, Decorated. C. S. Marsh. No. 911,509; Feb. 2; Sp. p. 920; Gaz. vol. 139; p. 161.
- Coin-operated box. H. S. Mills. No. 918,885; Apr. 20; Sp. p. 4015; Gaz. vol. 141; p. 704.
- Coin-operated machine. W. W. Rosenfield. No. 939,746; Nov. 9; Sp. p. 2864; Gaz. vol. 148; p. 472.
- Coin-operated mechanism. J. J. Wood. No. 925,548; June 22; Sp. p. 5129; Gaz. vol. 143; p. 904.
- Coin-operated releasing mechanism. G. P. Brand. No. 909,362; Jan. 12; Sp. p. 1885; Gaz. vol. 138; p. 337.
- Coin-operating mechanism. E. F. Symonds and G. W. Brann. No. 909,253; Jan. 12; Sp. p. 1678; Gaz. vol. 138; p. 302.
- Coin packaging and counting machine. A. Serena. No. 919,255; Apr. 20; Sp. p. 4906; Gaz. vol. 141; p. 823.
- Coin-paying machine. C. Menchen. No. 943,030; Dec. 14; Sp. p. 2162; Gaz. vol. 149; p. 370.
- Coin-receiver. M. W. Piper. No. 920,177; May 4; Sp. p. 167; Gaz. vol. 142; p. 26.
- Coin-receptacle. L. F. Hawley. No. 929,216; July 27; Sp. p. 5201; Gaz. vol. 144; p. 922.
- Coin receptacle and delivering device. A. E. Smith. No. 911,274; Feb. 2; Sp. p. 500; Gaz. vol. 139; p. 86.
- Coin-repository. B. vom Eigen. No. 913,629; Feb. 23; Sp. p. 5404; Gaz. vol. 139; p. 953.
- Coin-repository. B. vom Eigen. No. 913,630; Feb. 23; Sp. p. 5412; Gaz. vol. 139; p. 954.
- Coin-selector. G. C. Reith and G. F. Flade. No. 944,819; Dec. 28; Sp. p. 6017; Gaz. vol. 149; p. 1036.
- Coin separator and counter. J. M. Johnson. No. 915,965; Mar. 23; Sp. p. 4737; Gaz. vol. 140; p. 840.
- Coin-slot mechanism. F. Meyer. No. 921,553; May 11; Sp. p. 2990; Gaz. vol. 142; p. 513.
- Coin-sorter. T. F. Galligan. No. 937,517; Oct. 19; Sp. p. 4027; Gaz. vol. 147; p. 684.
- Coin-wrapper. E. W. Jennings. No. 930,291; Aug. 3; Sp. p. 1356; Gaz. vol. 145; p. 224.
- Coins, tickets, admission-fees, &c., Receptacle for. W. Cox. No. 917,256; Apr. 6; Sp. p. 606; Gaz. vol. 141; p. 104.
- Coining-press. O. Smith. No. 912,194; Feb. 9; Sp. p. 2372; Gaz. vol. 139; p. 410.
- Coke-drag. S. Richter. No. 941,385; Nov. 30; Sp. p. 6491; Gaz. vol. 148; p. 1104.
- Coke-drawer. H. Cory. No. 923,410; June 1; Sp. p. 682; Gaz. vol. 143; p. 100.
- Coke-drawing apparatus. C. M. Clarke. No. 923,139; June 1; Sp. p. 25; Gaz. vol. 143; p. 6.
- Coke-drawing apparatus. C. M. Clarke. No. 923,140; June 1; Sp. p. 27; Gaz. vol. 143; p. 6.
- Coke-drawing apparatus. E. D. Ratliff. No. 934,215; Sept. 14; Sp. p. 2533; Gaz. vol. 146; p. 418.
- Coke from coke-ovens, Apparatus for conveying. E. Ramsay. No. 933,666; Sept. 7; Sp. p. 1430; Gaz. vol. 146; p. 215.
- Coke-handling apparatus. D. McDonald. No. 942,341; Dec. 7; Sp. p. 659; Gaz. vol. 149; p. 105.
- Coke-loader. C. H. Wright and W. K. Monroe. No. 931,110; Aug. 17; Sp. p. 3131; Gaz. vol. 145; p. 548.
- Coke-oven. C. Schroeter. No. 922,201; May 18; Sp. p. 4338; Gaz. vol. 142; p. 755.
- Coke-oven. G. W. Thompson. No. 924,293; June 8; Sp. p. 2618; Gaz. vol. 143; p. 426.
- Coke-oven. H. Koppers. No. 925,815; June 22; Sp. p. 5722; Gaz. vol. 143; p. 992.
- Coke-oven. W. M. Person. No. 926,285; June 29; Sp. p. 6699; Gaz. vol. 143; p. 1182.
- Coke-oven. L. Bansart. No. 928,302; July 20; Sp. p. 3367; Gaz. vol. 144; p. 592.
- Coke-oven, By-product retort. H. Prentice. No. 939,086; Nov. 2; Sp. p. 1352; Gaz. vol. 148; p. 220.
- Coke-oven door. W. O. White. No. 941,398; Nov. 30; Sp. p. 6524; Gaz. vol. 148; p. 1108.
- Coke-oven-watering apparatus. D. B. Stauff. No. 925,241; June 15; Sp. p. 4549; Gaz. vol. 143; p. 777.
- Coke-ovens, Means for supplying air to. J. H. Hillman. No. 924,462; June 8; Sp. p. 2942; Gaz. vol. 143; p. 481.
- Coke-ovens, Regenerator system for by-product. H. Prentice. No. 920,647; May 4; Sp. p. 1114; Gaz. vol. 142; p. 182.
- Coke-ovens with coal, Apparatus for charging. W. J. Jenkins. No. 912,964; Feb. 16; Sp. p. 4007; Gaz. vol. 139; p. 703.
- Coking-furnace. L. L. Summers. No. 943,609; Dec. 14; Sp. p. 3358; Gaz. vol. 149; p. 567.
- Coking-furnace. L. L. Summers. No. 943,610; Dec. 14; Sp. p. 3364; Gaz. vol. 149; p. 567.
- Coking-oven. S. B. Sheldon. No. 933,349; Sept. 7; Sp. p. 711; Gaz. vol. 146; p. 111.
- Coking plant. W. R. Elliott. No. 925,428; June 15; Sp. p. 4886; Gaz. vol. 143; p. 835.
- Coking process. L. L. Summers. No. 935,175; Sept. 28; Sp. p. 4427; Gaz. vol. 146; p. 789.
- Colander. O. E. Bohannon. No. 914,014; Mar. 2; Sp. p. 785; Gaz. vol. 140; p. 120.
- Colander. M. A. Bailiff. No. 933,949; Sept. 14; Sp. p. 2007; Gaz. vol. 146; p. 331.
- Collapsible box. P. Henrich. No. 911,304; Feb. 2; Sp. p. 556; Gaz. vol. 139; p. 95.
- Collapsible box. F. M. Wade. No. 916,509; Mar. 30; Sp. p. 5825; Gaz. vol. 140; p. 1045.
- Collapsible box. R. Ronconi. (Reissue.) No. 12,936; Apr. 6; Sp. p. 1535; Gaz. vol. 141; p. 267.
- Collapsible box. B. Silverstein. No. 923,903; June 8; Sp. p. 1796; Gaz. vol. 143; p. 298.
- Collapsible box. R. P. Brown. No. 927,485; July 13; Sp. p. 1605; Gaz. vol. 144; p. 288.
- Collapsible box. S. Freund. No. 930,953; Aug. 10; Sp. p. 2753; Gaz. vol. 145; p. 468.
- Collapsible box. O. A. Paulson. No. 932,806; Aug. 31; Sp. p. 6737; Gaz. vol. 145; p. 1155.
- Collapsible box. D. J. Hudson. No. 933,454; Sept. 7; Sp. p. 955; Gaz. vol. 146; p. 144.
- Collapsible box and crate. R. L. McFarland and V. Tope. No. 916,360; Mar. 23; Sp. p. 5465; Gaz. vol. 140; p. 970.
- Collapsible box or crate. G. A. Shraud. No. 940,371; Nov. 16; Sp. p. 4282; Gaz. vol. 145; p. 719.
- Collapsible bracket. H. Lanham. No. 908,781; Jan. 5; Sp. p. 736; Gaz. vol. 138; p. 115.
- Collapsible rack. R. A. Wilson. No. 916,241; Mar. 23; Sp. p. 5261; Gaz. vol. 140; p. 929.
- Collapsible table. J. W. Lindow. No. 933,474; Sept. 7; Sp. p. 1003; Gaz. vol. 146; p. 152.
- Collapsible tube. R. Brooks. No. 943,234; Dec. 14; Sp. p. 2587; Gaz. vol. 149; p. 438.
- Collar. A. H. Parsons. No. 918,466; Apr. 13; Sp. p. 3046; Gaz. vol. 141; p. 535.

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- Collar. B. S. Ellis. No. 927,134; July 6; Sp. p. 907; Gaz. vol. 144; p. 146.  
 Collar. C. I. Mandel. No. 927,257; July 6; Sp. p. 1149; Gaz. vol. 144; p. 187.  
 Collar. G. W. Slifer. No. 927,889; July 13; Sp. p. 2479; Gaz. vol. 144; p. 423.  
 Collar. H. S. Kennedy. No. 930,191; Aug. 3; Sp. p. 1191; Gaz. vol. 145; p. 194.  
 Collar. E. L. Bevington. No. 939,204; Nov. 9; Sp. p. 1626; Gaz. vol. 148; p. 287.  
 Collar. H. C. Miller. No. 941,795; Nov. 30; Sp. p. 7358; Gaz. vol. 148; p. 1240.  
 Collar, Adjustable horse-. H. A. Newby. No. 911,749; Feb. 9; Sp. p. 1432; Gaz. vol. 139; p. 267.  
 Collar and cuff edge-finisher. E. J. McCauley. No. 927,670; July 13; Sp. p. 2020; Gaz. vol. 144; p. 351.  
 Collar and hames, Horse-. P. L. Johnson. No. 944,618; Dec. 28; Sp. p. 5586; Gaz. vol. 149; p. 969.  
 Collar attachment. C. R. Current. No. 911,295; Feb. 2; Sp. p. 542; Gaz. vol. 139; p. 92.  
 Collar-blanks and the like, Machine for folding. W. L. Dixon. No. 932,769; Aug. 31; Sp. p. 6656; Gaz. vol. 145; p. 1144.  
 Collar, Clamp-. J. H. Gately. No. 911,124; Feb. 2; Sp. p. 193; Gaz. vol. 139; p. 37.  
 Collar, Coat-. M. Koppelman. No. 922,434; May 18; Sp. p. 4798; Gaz. vol. 142; p. 831.  
 Collar, Coat-. M. Koppelman. No. 928,262; July 20; Sp. p. 3258; Gaz. vol. 144; p. 579.  
 Collar dampening and burnishing machine. C. W. Currier and J. Leitschuh. No. 909,557; Jan. 12; Sp. p. 2270; Gaz. vol. 138; p. 402.  
 Collar-fastener. S. H. Tolman. No. 911,630; Feb. 9; Sp. p. 1200; Gaz. vol. 139; p. 227.  
 Collar-fastener. S. G. Eghan. No. 922,682; May 25; Sp. p. 5318; Gaz. vol. 142; p. 940.  
 Collar-fastener, Adjustable. J. A. Ward, Jr. No. 910,751; Jan. 26; Sp. p. 4764; Gaz. vol. 138; p. 862.  
 Collar fastener, Coat-. C. E. Graves. No. 924,765; June 15; Sp. p. 3592; Gaz. vol. 143; p. 617.  
 Collar fastener, Horse-. L. I. Mudge. No. 920,983; May 11; Sp. p. 1810; Gaz. vol. 142; p. 321.  
 Collar fastener, Horse-. T. W. Hardy. No. 923,515; June 1; Sp. p. 896; Gaz. vol. 143; p. 137.  
 Collar fastener, Horse-. H. A. Wolverton, W. E. Pixley, and C. W. Derrickson. No. 930,448; Aug. 10; Sp. p. 1658; Gaz. vol. 145; p. 300.  
 Collar, Horse-. J. D. Whipple. No. 922,988; May 25; Sp. p. 5955; Gaz. vol. 142; p. 1039.  
 Collar, Horse-. G. W. Hahn. No. 931,862; Aug. 24; Sp. p. 4732; Gaz. vol. 145; p. 819.  
 Collar ironing, dampening, folding, and shaping machine. S. J. Miller, W. M. Morlock, and P. G. Carlson. No. 916,178; Mar. 23; Sp. p. 5136; Gaz. vol. 140; p. 909.  
 Collar machine, Horse-. J. C. Collett and A. C. Jackson. No. 939,218; Nov. 9; Sp. p. 1655; Gaz. vol. 148; p. 292.  
 Collar, Metal-framed horse-. W. Hardwick. No. 942,824; Dec. 7; Sp. p. 1627; Gaz. vol. 149; p. 267.  
 Collar-pad holder. G. P. Mathers. No. 937,082; Oct. 19; Sp. p. 3072; Gaz. vol. 147; p. 540.  
 Collar pad, Horse-. F. Reinhard. No. 924,581; June 8; Sp. p. 3184; Gaz. vol. 143; p. 521.  
 Collar pad, Horse-. J. W. Foster. No. 927,721; July 13; Sp. p. 2124; Gaz. vol. 144; p. 368.  
 Collar protective shield, Horse-. F. Martell. No. 919,906; Apr. 27; Sp. p. 6315; Gaz. vol. 141; p. 1079.  
 Collar, Set-. I. W. Exley. No. 930,169; Aug. 3; Sp. p. 1154; Gaz. vol. 145; p. 187.  
 Collar, Shirt-. C. Ryan. No. 908,502; Jan. 5; Sp. p. 144; Gaz. vol. 138; p. 26.  
 Collar, Shirt-. E. A. Christman. No. 918,284; Apr. 13; Sp. p. 2693; Gaz. vol. 141; p. 477.  
 Collar, Shirt-. J. Dorf. No. 932,848; Aug. 31; Sp. p. 6809; Gaz. vol. 145; p. 1168.  
 Collar-stay. H. Hammond. No. 916,949; Mar. 30; Sp. p. 6653; Gaz. vol. 140; p. 1185.  
 Collar-stay. H. A. Aldred. No. 928,573; July 20; Sp. p. 3900; Gaz. vol. 144; p. 681.  
 Collar-stuffing machine, Horse-. J. C. Collett. No. 930,043; Aug. 3; Sp. p. 884; Gaz. vol. 145; p. 142.  
 Collar-support. J. Kelley. No. 920,342; May 4; Sp. p. 512; Gaz. vol. 142; p. 81.  
 Collar-support. M. M. Stillman. No. 944,521; Dec. 28; Sp. p. 5372; Gaz. vol. 149; p. 935.  
 Collar-supporter. J. A. Doran. No. 911,216; Feb. 2; Sp. p. 379; Gaz. vol. 139; p. 66.  
 Collar-supporter. J. W. Schloss. No. 913,435; Feb. 23; Sp. p. 4962; Gaz. vol. 139; p. 888.  
 Collar-supporter. C. T. Wittstein. No. 919,800; Apr. 27; Sp. p. 6063; Gaz. vol. 141; p. 1043.  
 Collar-supporter. C. T. Wittstein. No. 919,801; Apr. 27; Sp. p. 6064; Gaz. vol. 141; p. 1043.  
 Collar-supporter. J. C. Doran. No. 928,250; July 20; Sp. p. 3224; Gaz. vol. 144; p. 574.  
 Collar-supporter. H. A. Aldred. No. 928,621; July 20; Sp. p. 3995; Gaz. vol. 144; p. 697.  
 Collar-supporter. B. C. Bubar. No. 939,338; Nov. 9; Sp. p. 2099; Gaz. vol. 148; p. 350.  
 Collar-stuffing machine, Horse-. W. B. Estes. No. 916,543; Mar. 30; Sp. p. 5884; Gaz. vol. 140; p. 1056.  
 Collars, Holder for wing-point. E. G. Skinner. No. 934,766; Sept. 21; Sp. p. 3595; Gaz. vol. 146; p. 627.  
 Coliator. A. F. Harris and W. H. Smith. No. 925,097; June 15; Sp. p. 4274; Gaz. vol. 143; p. 728.  
 Collecting and delivering apparatus, Automatic. D. M. Main. No. 908,589; Jan. 5; Sp. p. 334; Gaz. vol. 138; p. 54.  
 Collecting and folding machine. H. M. Barber. (Reissue.) No. 12,958; May 25; Sp. p. 6273; Gaz. vol. 142; p. 1085.  
 Collection-box. E. Rebischung. No. 915,308; Mar. 16; Sp. p. 3411; Gaz. vol. 140; p. 595.  
 Collection-box. E. E. Adams. No. 931,549; Aug. 17; Sp. p. 4039; Gaz. vol. 145; p. 696.  
 Collector-brush. H. G. Reist and J. E. Noeggerath. No. 929,492; July 27; Sp. p. 5773; Gaz. vol. 144; p. 1012.  
 Collector-ring. J. E. Noeggerath. No. 919,626; Apr. 27; Sp. p. 5727; Gaz. vol. 141; p. 985.  
 Collector-ring and clamping-plate. C. H. Smoot and H. Hertz. No. 911,081; Feb. 2; Sp. p. 114; Gaz. vol. 139; p. 21.  
 Collier and coal-handling apparatus. T. S. Miller. No. 943,694; Dec. 21; Sp. p. 3587; Gaz. vol. 149; p. 625.  
 Colliery and other inclines, Safety appliance for. J. Norton. No. 931,078; Aug. 17; Sp. p. 3070; Gaz. vol. 145; p. 538.  
 Collisions at sea, Device for preventing. G. Fischer. No. 914,483; Mar. 9; Sp. p. 1746; Gaz. vol. 140; p. 300.  
 Color and making same, Sulfur. E. S. Chapin. No. 909,153; Jan. 12; Sp. p. 1497; Gaz. vol. 138; p. 271.  
 Color and making same, Sulfur. E. S. Chapin. No. 909,156; Jan. 12; Sp. p. 1501; Gaz. vol. 138; p. 272.  
 Color and making same, Sulfur. E. T. Bundsman. No. 909,277; Jan. 12; Sp. p. 1725; Gaz. vol. 138; p. 310.  
 Color-box. E. E. Wilson. No. 924,865; June 15; Sp. p. 3809; Gaz. vol. 143; p. 651.  
 Color-whirligig. W. R. Evans. No. 911,582; Feb. 9; Sp. p. 1091; Gaz. vol. 139; p. 213.  
 Coloration process. B. D. Avis, Jr. No. 933,522; Sept. 7; Sp. p. 1162; Gaz. vol. 146; p. 168.  
 Coloring illustrations, Machine for. M. H. Piper. No. 929,326; July 27; Sp. p. 5477; Gaz. vol. 144; p. 961.  
 Coloring-matter, Vat. J. Deinet. No. 938,618; Nov. 2; Sp. p. 395; Gaz. vol. 148; p. 59.  
 Coloring-matter, Vat. J. Deinet. No. 938,619; Nov. 2; Sp. p. 395; Gaz. vol. 148; p. 59.  
 Colter attachment, Plow. C. Hightower. No. 941,252; Nov. 23; Sp. p. 6190; Gaz. vol. 148; p. 1039.  
 Colter, Plow-. W. J. Wieder. No. 938,097; Oct. 26; Sp. p. 5221; Gaz. vol. 147; p. 895.  
 Colter, Plow-. E. Brown. No. 944,478; Dec. 28; Sp. p. 5250; Gaz. vol. 149; p. 919.  
 Column-clamp. J. E. Langford. No. 916,169; Mar. 23; Sp. p. 5122; Gaz. vol. 140; p. 906.  
 Column-clamp. A. H. Schwerd, Jr. No. 938,344; Oct. 26; Sp. p. 5756; Gaz. vol. 147; p. 979.  
 Column for buildings and other structures. E. V. Johnson. No. 926,747; July 6; Sp. p. 86; Gaz. vol. 144; p. 13.  
 Column, girder, &c. J. W. Muldoon. No. 914,861; Mar. 9; Sp. p. 2540; Gaz. vol. 140; p. 424.  
 Column-turning-machine bearing. J. Bufileen. No. 916,942; Mar. 30; Sp. p. 6637; Gaz. vol. 140; p. 1182.  
 Column, Wooden. C. A. Nickerson. No. 933,915; Sept. 14; Sp. p. 1951; Gaz. vol. 146; p. 321.  
 Columns, Base-stand for porch-. G. Royse. No. 922,517; May 25; Sp. p. 4977; Gaz. vol. 142; p. 885.  
 Columns, Mold for making fluted. J. P. Archdeacon. No. 925,858; June 22; Sp. p. 5814; Gaz. vol. 143; p. 1006.  
 Columns, posts, and the like, Metal reinforcement for metal-reinforced. G. J. Schade. No. 943,469; Dec. 14; Sp. p. 3081; Gaz. vol. 149; p. 519.  
 Comb. See Barber's comb; Currycomb; Hair-comb; Self-cleaning comb.  
 Comb. A. C. Becken. No. 912,355; Feb. 16; Sp. p. 2753; Gaz. vol. 139; p. 501.  
 Comb. G. W. Shadle. No. 914,979; Mar. 9; Sp. p. 2737; Gaz. vol. 140; p. 461.  
 Comb. A. M. Young. No. 923,399; June 1; Sp. p. 661; Gaz. vol. 143; p. 96.  
 Comb. C. O. Ensor. No. 924,048; June 8; Sp. p. 2063; Gaz. vol. 143; p. 343.  
 Comb. J. C. McLean. No. 928,785; July 20; Sp. p. 4308; Gaz. vol. 144; p. 752.  
 Comb. E. O. Kohn. No. 930,195; Aug. 3; Sp. p. 1196; Gaz. vol. 145; p. 195.  
 Comb. E. Jennison. No. 934,181; Sept. 14; Sp. p. 2471; Gaz. vol. 146; p. 407.  
 Comb. E. Caldwell. No. 938,040; Oct. 26; Sp. p. 5090; Gaz. vol. 147; p. 876.  
 Comb. W. Jacobs. No. 940,532; Nov. 16; Sp. p. 4633; Gaz. vol. 148; p. 773.  
 Comb. M. E. Purdy. No. 941,586; Nov. 30; Sp. p. 6905; Gaz. vol. 148; p. 1168.  
 Comb. M. E. Bordas. No. 943,765; Dec. 21; Sp. p. 3732; Gaz. vol. 149; p. 650.  
 Comb attachment. H. H. West. No. 928,485; July 20; Sp. p. 3712; Gaz. vol. 144; p. 653.  
 Comb attachment. F. N. Flamondon. No. 940,890; Nov. 23; Sp. p. 5419; Gaz. vol. 148; p. 918.  
 Comb, Back-. W. C. Krueger. No. 915,775; Mar. 23; Sp. p. 4396; Gaz. vol. 140; p. 780.  
 Comb-barrette. A. Burke. No. 937,223; Oct. 19; Sp. p. 3377; Gaz. vol. 147; p. 586.  
 Comb-cleaning attachment for strippers or harvesting-machines. A. J. Brownscombe. No. 915,932; Mar. 23; Sp. p. 4673; Gaz. vol. 140; p. 829.  
 Comb-cutting device. F. Schätz and B. Van der Hoek. No. 942,795; Dec. 7; Sp. p. 1571; Gaz. vol. 149; p. 258.



*Alphabetical list of inventions—Continued.*

- Comb fastener, Back-. H. F. Klingele. No. 910,290; Jan. 19; Sp. p. 3803; Gaz. vol. 138; p. 685.
- Comb for straightening hair, Ironing-. E. H. Taylor. No. 917,680; Apr. 6; Sp. p. 1388; Gaz. vol. 141; p. 245.
- Comb, Hair-. C. E. Speck and F. W. Henschen. No. 914,984; Mar. 9; Sp. p. 2744; Gaz. vol. 140; p. 462.
- Comb lock, Side and back. W. C. Bridges. No. 931,841; Aug. 24; Sp. p. 4690; Gaz. vol. 145; p. 813.
- Comb-loss-preventing device. F. B. Salter. No. 930,991; Aug. 10; Sp. p. 2846; Gaz. vol. 145; p. 480.
- Comb-protector. J. A. Kennedy. No. 932,027; Aug. 24; Sp. p. 5113; Gaz. vol. 145; p. 874.
- Comb-rack. A. Vance. No. 936,196; Oct. 5; Sp. p. 1243; Gaz. vol. 147; p. 188.
- Comb, Sanitary. H. T. Moler. No. 909,635; Jan. 12; Sp. p. 2426; Gaz. vol. 138; p. 430.
- Comb stamping and cutting die. G. R. Farrell. No. 926,693; June 29; Sp. p. 7471; Gaz. vol. 143; p. 1317.
- Comb, Woman's hair-retaining. I. M. Schwarzer. No. 918,203; Apr. 13; Sp. p. 2528; Gaz. vol. 141; p. 451.
- Combs of combing-machines, Device for positioning pins for the. T. Townsend. No. 910,744; Jan. 26; Sp. p. 4732; Gaz. vol. 138; p. 859.
- Combing-machine. J. Southwell. No. 933,207; Sept. 7; Sp. p. 389; Gaz. vol. 146; p. 61.
- Combing-machine feeding device, Heliman. J. C. A. Wenning. No. 938,189; Oct. 26; Sp. p. 5431; Gaz. vol. 147; p. 927.
- Combination and bath fitting. T. A. Martin and S. Brams. No. 936,791; Oct. 12; Sp. p. 2488; Gaz. vol. 147; p. 415.
- Combination-bench. H. S. Maynard. No. 922,011; May 18; Sp. p. 3964; Gaz. vol. 142; p. 693.
- Combination-lock. C. H. Cohn. No. 910,174; Jan. 19; Sp. p. 3506; Gaz. vol. 138; p. 641.
- Combination-lock. H. M. McDonald. No. 911,150; Feb. 2; Sp. p. 255; Gaz. vol. 139; p. 44.
- Combination-lock. O. M. Larkin. No. 916,334; Mar. 23; Sp. p. 5412; Gaz. vol. 140; p. 962.
- Combination-lock. J. J. Deal. No. 925,688; June 22; Sp. p. 5421; Gaz. vol. 143; p. 948.
- Combination-lock. R. E. Runkle. No. 929,712; Aug. 3; Sp. p. 151; Gaz. vol. 145; p. 27.
- Combination-lock. J. J. Murphy. No. 930,079; Aug. 3; Sp. p. 958; Gaz. vol. 145; p. 155.
- Combination-lock. J. J. Murphy. No. 941,028; Nov. 23; Sp. p. 5712; Gaz. vol. 148; p. 963.
- Combination-lock. W. Fox. No. 941,241; Nov. 23; Sp. p. 6172; Gaz. vol. 148; p. 1035.
- Combination-lock, Keyless. S. J. Nielsen. No. 908,691; Jan. 5; Sp. p. 552; Gaz. vol. 138; p. 86.
- Combination-lock, Push-pin. J. Roche. No. 918,200; Apr. 13; Sp. p. 2520; Gaz. vol. 141; p. 449.
- Combination or keyless lock. O. M. Farrand. No. 929,924; Aug. 3; Sp. p. 641; Gaz. vol. 145; p. 102.
- Combination-rack. C. R. Haas and W. Giles. No. 931,059; Aug. 17; Sp. p. 3030; Gaz. vol. 145; p. 532.
- Combination-table. L. W. Miller. No. 919,052; Apr. 20; Sp. p. 4347; Gaz. vol. 141; p. 759.
- Combination table and lounge. T. McGaw. No. 913,032; Feb. 23; Sp. p. 4141; Gaz. vol. 139; p. 752.
- Combination-wrench. L. O. Johnson. No. 932,136; Aug. 24; Sp. p. 5343; Gaz. vol. 145; p. 911.
- Combination-wrench. L. V. Aronson. No. 942,993; Dec. 14; Sp. p. 2079; Gaz. vol. 149; p. 358.
- Combined table. J. L. Nail. No. 908,487; Jan. 5; Sp. p. 106; Gaz. vol. 138; p. 20.
- Combustion-engine. O. P. Ostergren. No. 920,989; May 11; Sp. p. 1819; Gaz. vol. 142; p. 323.
- Combustion-engine. O. Lietzenmayer. No. 923,054; May 25; Sp. p. 6102; Gaz. vol. 142; p. 1060.
- Combustion-engine. H. H. Cutler. No. 923,496; June 1; Sp. p. 848; Gaz. vol. 143; p. 129.
- Combustion-engine. C. S. Piestrak. No. 904,474; Nov. 16; Sp. p. 4510; Gaz. vol. 148; p. 754.
- Combustion-furnace, Smokeless. R. Stoker. No. 912,201; Feb. 9; Sp. p. 2389; Gaz. vol. 139; p. 412.
- Combustion-motor. G. Enrico. No. 930,056; Aug. 3; Sp. p. 918; Gaz. vol. 145; p. 147.
- Combustion-producing apparatus, Complete. J. Cartin. No. 916,996; Apr. 6; Sp. p. 60; Gaz. vol. 141; p. 15.
- Comfortables, Sanitary washable case for. A. C. Caldwell. No. 938,968; Nov. 2; Sp. p. 1121; Gaz. vol. 148; p. 179.
- Commercial transactions by double entry, Machine for registering. M. Pionzio-Cavagnino. No. 915,474; Mar. 16; Sp. p. 3739; Gaz. vol. 140; p. 660.
- Commode-seat, Sanitary. H. W. Young. No. 919,512; Apr. 27; Sp. p. 5503; Gaz. vol. 141; p. 945.
- Communication, Selection in systems of. E. E. Clement. No. 939,187; Nov. 2; Sp. p. 1558; Gaz. vol. 148; p. 256.
- Communication, Selection in systems of. E. E. Clement. No. 939,188; Nov. 2; Sp. p. 1582; Gaz. vol. 148; p. 256.
- Communication, Selective apparatus for systems of. E. E. Clement. No. 939,186; Nov. 2; Sp. p. 1577; Gaz. vol. 148; p. 255.
- Communion-cup, envelop, and pencil-holder, Combination. D. Munin. No. 929,461; July 27; Sp. p. 5716; Gaz. vol. 144; p. 1003.
- Commutator. W. A. Dick. No. 935,300; Sept. 28; Sp. p. 4672; Gaz. vol. 146; p. 830.
- Commutator-brush. F. W. Garrett. No. 930,067; Aug. 3; Sp. p. 936; Gaz. vol. 145; p. 150.
- Commutator-brush. V. G. Apple. No. 936,692; Oct. 12; Sp. p. 2306; Gaz. vol. 147; p. 382.
- Commutator construction. H. H. Ralston. No. 911,758; Feb. 9; Sp. p. 1450; Gaz. vol. 139; p. 270.
- Commutator, Dynamo-electric-machine. J. E. Webster. No. 931,105; Aug. 17; Sp. p. 3115; Gaz. vol. 145; p. 546.
- Commutator, Dynamo-electric-machine. B. G. Lammie. No. 931,130; Aug. 17; Sp. p. 3168; Gaz. vol. 145; p. 555.
- Commutator for dynamo-electric machines. F. W. Cox. No. 920,920; May 11; Sp. p. 1692; Gaz. vol. 142; p. 301.
- Commutator for electrical machines. F. R. Kunkel. No. 928,918; July 20; Sp. p. 4585; Gaz. vol. 144; p. 798.
- Commutator-leads, Support for. E. Matman. No. 932,042; Aug. 24; Sp. p. 5156; Gaz. vol. 145; p. 879.
- Comparator. J. S. Bancroft. No. 944,404; Dec. 28; Sp. p. 5081; Gaz. vol. 149; p. 894.
- Compartment-can. E. Eckart. No. 929,842; Aug. 3; Sp. p. 475; Gaz. vol. 145; p. 75.
- Compartment-case. M. H. Thomas. No. 915,507; Mar. 16; Sp. p. 3804; Gaz. vol. 140; p. 661.
- Compass. A. Laube. No. 920,587; May 4; Sp. p. 1000; Gaz. vol. 142; p. 163.
- Compass, Beam-. H. E. P. Taylor. No. 928,712; July 20; Sp. p. 4171; Gaz. vol. 144; p. 727.
- Compass, Beam-. F. S. Hurst. No. 939,597; Nov. 9; Sp. p. 2556; Gaz. vol. 148; p. 419.
- Compass-hoods, Bearing-taking device for. A. Fey. No. 934,904; Sept. 21; Sp. p. 3870; Gaz. vol. 146; p. 672.
- Compass, Mariner's. A. F. Smith. No. 918,709; Apr. 20; Sp. p. 3648; Gaz. vol. 141; p. 647.
- Compasses. L. Harris. No. 935,497; Sept. 28; Sp. p. 5055; Gaz. vol. 146; p. 893.
- Compasses, Apparatus for recording. E. Schuette and N. Dedrick. No. 939,866; Nov. 9; Sp. p. 3110; Gaz. vol. 148; p. 513.
- Compasses, Attachment for. A. E. Washburn. No. 931,359; Aug. 17; Sp. p. 3678; Gaz. vol. 145; p. 635.
- Compasses, Chart for recording. E. Schuette. No. 939,867; Nov. 9; Sp. p. 3114; Gaz. vol. 148; p. 514.
- Compasses or dividers. C. E. Hand. No. 920,461; May 4; Sp. p. 747; Gaz. vol. 142; p. 120.
- Composing and casting machine, Typographical. H. Pearce and J. E. Billington. No. 941,384; Nov. 30; Sp. p. 6483; Gaz. vol. 148; p. 1103.
- Composing and line-casting machine. B. Cade. No. 920,021; Apr. 27; Sp. p. 6530; Gaz. vol. 141; p. 1115.
- Composing-machine. A. Savarese. No. 920,086; Apr. 27; Sp. p. 6691; Gaz. vol. 141; p. 1137.
- Composing-machine, Mechanical-controller. W. G. White. No. 943,611; Dec. 14; Sp. p. 3366; Gaz. vol. 149; p. 568.
- Composing-machine, Record-strip. J. S. Bancroft and M. C. Indahl. No. 938,298; Oct. 26; Sp. p. 5638; Gaz. vol. 147; p. 964.
- Composing-machine, Record-strip. J. S. Bancroft and M. C. Indahl. No. 944,405; Dec. 28; Sp. p. 5083; Gaz. vol. 149; p. 895.
- Composing-machines, Assembling mechanism of typographical. J. E. Billington and C. Hollwell. No. 923,131; June 1; Sp. p. 3; Gaz. vol. 143; p. 3.
- Composing-machines, Galley mechanism for typographical. H. Pearce and J. E. Billington. No. 935,543; Sept. 28; Sp. p. 5184; Gaz. vol. 146; p. 909.
- Composing-machines, Means for justifying tabular matter in typographical. J. G. Holbourns and H. A. Longhurst. No. 933,835; Sept. 14; Sp. p. 1778; Gaz. vol. 146; p. 295.
- Composing-machines, Means for justifying tabular matter in typographical. J. G. Holbourns and H. A. Longhurst. No. 934,403; Sept. 14; Sp. p. 2889; Gaz. vol. 146; p. 483.
- Composing mechanism, Multiplex. W. Bancroft. No. 925,073; June 15; Sp. p. 4223; Gaz. vol. 143; p. 720.
- Composite pipe. J. T. Langford. No. 913,662; Feb. 23; Sp. p. 5472; Gaz. vol. 139; p. 963.
- Composition. B. Friedlander. No. 932,460; Aug. 31; Sp. p. 5972; Gaz. vol. 145; p. 1040.
- Composition board. J. Ferla. No. 909,173; Jan. 12; Sp. p. 1532; Gaz. vol. 138; p. 277.
- Composition board and producing same. H. L. Hollister. No. 915,860; Mar. 23; Sp. p. 4542; Gaz. vol. 140; p. 807.
- Composition for antiseptic and other purposes. H. S. Blackmore. No. 909,527; Jan. 12; Sp. p. 2211; Gaz. vol. 138; p. 393.
- Composition of matter. J. Lauer, F. A. Thomas, and J. F. Norman. No. 909,617; Jan. 12; Sp. p. 2390; Gaz. vol. 138; p. 424.
- Composition of matter. R. Rumbel. No. 913,565; Feb. 23; Sp. p. 5268; Gaz. vol. 139; p. 932.
- Composition of matter. C. A. Goldsmith. No. 923,641; June 1; Sp. p. 1178; Gaz. vol. 143; p. 181.
- Composition of matter. D. G. Zeigler. No. 923,925; June 8; Sp. p. 1829; Gaz. vol. 143; p. 805.
- Composition of matter. F. D. Borland and F. G. Haney. No. 926,463; June 29; Sp. p. 7036; Gaz. vol. 143; p. 1240.
- Composition of matter. S. A. Leavitt. No. 930,976; Aug. 10; Sp. p. 2800; Gaz. vol. 145; p. 475.
- Composition of matter. T. D. Lynch and J. J. Crane. No. 932,622; Aug. 31; Sp. p. 6351; Gaz. vol. 145; p. 1096.
- Composition of matter. G. W. Boggs. No. 933,875; Sept. 14; Sp. p. 1866; Gaz. vol. 146; p. 308.
- Composition of matter. C. J. and F. G. Marius. No. 934,412; Sept. 14; Sp. p. 2906; Gaz. vol. 146; p. 486.
- Composition of matter. G. W. Rowe and G. A. Howard. No. 937,869; Oct. 26; Sp. p. 4736; Gaz. vol. 147; p. 819.
- Composition of matter. C. F. Ackerman. No. 939,938; Nov. 9; Sp. p. 3273; Gaz. vol. 148; p. 540.
- Composition of matter. F. J. Conboy. No. 939,982; Nov. 16; Sp. p. 3383; Gaz. vol. 148; p. 553.
- Composition of matter. J. F. Norman. No. 943,157; Dec. 14; Sp. p. 2434; Gaz. vol. 149; p. 414.



*Alphabetical list of inventions—Continued.*

- Composition of matter and making the same. W. A. Phillips. No. 933,722; Sept. 7; Sp. p. 1557; Gaz. vol. 146; p. 236.  
 Composition of matter and making the same. W. A. Phillips. No. 933,723; Sept. 7; Sp. p. 1559; Gaz. vol. 146; p. 236.  
 Composition of matter and tempering same. M. S. Woelfel. No. 916,244; Mar. 23; Sp. p. 5265; Gaz. vol. 140; p. 930.  
 Compound. H. M. Sinclair. No. 931,094; Aug. 17; Sp. p. 3095; Gaz. vol. 145; p. 543.  
 Compound gasoline-engine. L. C. Burton. No. 935,740; Oct. 5; Sp. p. 246; Gaz. vol. 147; p. 39.  
 Compound of the anthracene series and making same. F. Kačer. No. 925,917; June 22; Sp. p. 5938; Gaz. vol. 143; p. 1025.  
 Compound of the anthracene series and making same. F. Kačer. No. 932,290; Aug. 24; Sp. p. 5642; Gaz. vol. 145; p. 962.  
 Compounds and mixtures, Method and apparatus for determining proportions in. L. Taylor. No. 940,217; Nov. 16; Sp. p. 3925; Gaz. vol. 148; p. 667.  
 Compounds containing the acetyl group, Preparing organic. M. Mugdan. No. 944,372; Dec. 28; Sp. p. 5018; Gaz. vol. 149; p. 883.  
 Compress. S. J. Webb. No. 921,489; May 11; Sp. p. 2864; Gaz. vol. 142; p. 493.  
 Compressed-air engine. B. V. Nordberg. No. 926,819; July 6; Sp. p. 233; Gaz. vol. 144; p. 38.  
 Compressed-air signal. R. Armstrong. No. 934,785; Sept. 21; Sp. p. 3629; Gaz. vol. 146; p. 633.  
 Compressing-machine. W. M. Gentle. No. 915,424; Mar. 16; Sp. p. 3640; Gaz. vol. 140; p. 634.  
 Compression-bib. J. N. Mortimer and E. L. Strauss. No. 944,457; Dec. 28; Sp. p. 5207; Gaz. vol. 149; p. 912.  
 Compression stop and waste. A. C. Schuermann. No. 927,683; July 13; Sp. p. 2043; Gaz. vol. 144; p. 355.  
 Compressor. F. A. Rider. No. 921,890; May 18; Sp. p. 3699; Gaz. vol. 142; p. 653.  
 Compressor. W. H. Miller. No. 936,143; Oct. 5; Sp. p. 1149; Gaz. vol. 147; p. 174.  
 Compressor quantity-regulating device, Rotary fluid-. A. Huguenin. No. 916,156; Mar. 23; Sp. p. 5096; Gaz. vol. 140; p. 902.  
 Compressor, Rotary. H. W. N. Cole. No. 910,175; Jan. 19; Sp. p. 3510; Gaz. vol. 138; p. 641.  
 Compressor, vacuum-pump, &c. F. J. Rochow. No. 921,164; May 11; Sp. p. 2174; Gaz. vol. 142; p. 383.  
 Compressors, Automatic drain for. W. D. Mount. No. 925,438; June 15; Sp. p. 4911; Gaz. vol. 143; p. 838.  
 Compressors, Controlling device for two-stage. R. Conrad. No. 921,803; May 18; Sp. p. 3520; Gaz. vol. 142; p. 625.  
 Computer. C. A. Pitkin. No. 925,377; June 15; Sp. p. 4787; Gaz. vol. 143; p. 818.  
 Computing and recording machine. W. H. McFarland. No. 936,652; Oct. 12; Sp. p. 2224; Gaz. vol. 147; p. 369.  
 Computing device. J. S. Dinkelspiel. No. 938,222; Oct. 26; Sp. p. 5493; Gaz. vol. 147; p. 939.  
 Computing-machine. J. T. Uebbing and H. Marshall. No. 914,467; Mar. 9; Sp. p. 1714; Gaz. vol. 140; p. 294.  
 Computing-machine. O. D. Jochantgen. No. 923,269; June 1; Sp. p. 328; Gaz. vol. 143; p. 52.  
 Computing-machine. J. M. Daly. No. 939,221; Nov. 9; Sp. p. 1659; Gaz. vol. 148; p. 293.  
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 Computing-machine-check-stamping mechanism. G. A. Armstrong. No. 938,455; Nov. 2; Sp. p. 1; Gaz. vol. 148; p. 3.  
 Computing-table. E. Aberle. No. 938,737; Nov. 2; Sp. p. 620; Gaz. vol. 148; p. 98.  
 Concentrate unwatering apparatus. P. Hårdén. No. 910,376; Jan. 19; Sp. p. 3973; Gaz. vol. 138; p. 714.  
 Concentrating apparatus. M. E. Darrow. No. 908,966; Jan. 5; Sp. p. 1084; Gaz. vol. 138; p. 175.  
 Concentrating apparatus. C. A. La Point. No. 928,870; July 20; Sp. p. 4482; Gaz. vol. 144; p. 781.  
 Concentrating apparatus. G. F. Rendall. No. 936,563; Oct. 12; Sp. p. 2037; Gaz. vol. 147; p. 336.  
 Concentrating-table. W. G. Dodd. No. 908,758; Jan. 5; Sp. p. 700; Gaz. vol. 138; p. 109.  
 Concentrating-table. H. D. McLeod. No. 930,218; Aug. 3; Sp. p. 1224; Gaz. vol. 145; p. 201.  
 Concentrating-table. J. W. Meyers and D. F. Payne. No. 930,553; Aug. 10; Sp. p. 1915; Gaz. vol. 145; p. 337.  
 Concentrator. W. M. Stover. No. 926,031; June 22; Sp. p. 6154; Gaz. vol. 143; p. 1062.  
 Concentrator. J. P. Evans and R. P. Akins. No. 932,691; Aug. 31; Sp. p. 6494; Gaz. vol. 145; p. 1119.  
 Concentrator. E. B. Thomas. No. 944,924; Dec. 28; Sp. p. 6233; Gaz. vol. 149; p. 1071.  
 Concentrator and amalgamator. J. I. E. Nelson. No. 942,584; Dec. 7; Sp. p. 1153; Gaz. vol. 149; p. 187.  
 Concentrator and classifier, Centrifugal. F. Laist. No. 935,311; Sept. 28; Sp. p. 4692; Gaz. vol. 146; p. 834.  
 Concentrator slime-feeding device. J. B. Green. No. 941,918; Nov. 30; Sp. p. 7624; Gaz. vol. 148; p. 1284.  
 Concrete article, Ornamented molded. G. H. Bartlett. No. 932,092; Aug. 24; Sp. p. 5251; Gaz. vol. 145; p. 895.  
 Concrete beam. P. Aylett and J. S. Banks. No. 918,643; Apr. 20; Sp. p. 3485; Gaz. vol. 141; p. 623.  
 Concrete beam protection. A. L. A. Himmelfwright. No. 915,295; Mar. 16; Sp. p. 3388; Gaz. vol. 140; p. 592.  
 Concrete beam, Reinforced-. C. A. P. Turner. No. 927,194; July 6; Sp. p. 1022; Gaz. vol. 144; p. 166.  
 Concrete beams, girders, and arch-ribs, Constructing and erecting reinforced-. F. W. Skinner. No. 939,642; Nov. 9; Sp. p. 2645; Gaz. vol. 148; p. 437.  
 Concrete block. H. N. Pettigrew. No. 914,507; Mar. 9; Sp. p. 1788; Gaz. vol. 140; p. 307.  
 Concrete block for cribwork and the like. W. D. Johnston. No. 923,975; June 8; Sp. p. 1935; Gaz. vol. 143; p. 322.  
 Concrete-block machine. E. P. Auger. No. 914,367; Mar. 2; Sp. p. 1526; Gaz. vol. 140; p. 236.  
 Concrete-block machine. L. Flanagan. No. 920,851; May 4; Sp. p. 1537; Gaz. vol. 142; p. 248.  
 Concrete-block machine. O. H. Davis. No. 939,225; Nov. 9; Sp. p. 1688; Gaz. vol. 148; p. 294.  
 Concrete-block machine. C. E. Phillips. No. 939,543; Nov. 9; Sp. p. 2421; Gaz. vol. 148; p. 401.  
 Concrete-block machine. L. B. Larsen. No. 940,935; Nov. 23; Sp. p. 5508; Gaz. vol. 148; p. 933.  
 Concrete-block-making machine. P. Wecht and J. Winfield. No. 915,517; Mar. 16; Sp. p. 3816; Gaz. vol. 140; p. 664.  
 Concrete-block mold. W. H. Faulkner. No. 916,689; Mar. 30; Sp. p. 6156; Gaz. vol. 140; p. 1103.  
 Concrete-block-molding machine. J. A. Stubkjare, T. F. Burns, and W. C. McClintock. No. 929,261; July 27; Sp. p. 5302; Gaz. vol. 144; p. 937.  
 Concrete-block-molding machine. F. M. Henry. No. 930,665; Aug. 10; Sp. p. 2144; Gaz. vol. 145; p. 374.  
 Concrete-block-molding machine. C. Colwitz. No. 940,131; Nov. 16; Sp. p. 3737; Gaz. vol. 148; p. 637.  
 Concrete-block-molding mold. A. Evenstad. No. 913,116; Feb. 23; Sp. p. 4320; Gaz. vol. 139; p. 781.  
 Concrete blocks and the like, Machine for stamping. H. Schmidt. No. 921,287; May 11; Sp. p. 2443; Gaz. vol. 142; p. 425.  
 Concrete blocks for buildings, Machine for making. W. G. Bailey. No. 921,659; May 18; Sp. p. 3235; Gaz. vol. 142; p. 576.  
 Concrete blocks, Machine for making. W. F. Mills. No. 929,459; July 27; Sp. p. 5709; Gaz. vol. 144; p. 1002.  
 Concrete blocks, Molding. H. Briggs. No. 916,260; Mar. 23; Sp. p. 5288; Gaz. vol. 140; p. 936.  
 Concrete bridge. D. B. Luten. No. 933,771; Sept. 14; Sp. p. 1654; Gaz. vol. 146; p. 274.  
 Concrete-bucket. W. D. Lockwood. No. 926,886; July 6; Sp. p. 377; Gaz. vol. 144; p. 61.  
 Concrete building and holding mechanism. A. N. Doud. No. 934,294; Sept. 14; Sp. p. 2678; Gaz. vol. 146; p. 445.  
 Concrete building-block. J. J. Coyne. No. 944,950; Dec. 28; Sp. p. 6277; Gaz. vol. 149; p. 1079.  
 Concrete building-blocks, Bond for two-membered. L. B. Larsen. No. 941,080; Nov. 23; Sp. p. 5814; Gaz. vol. 148; p. 931.  
 Concrete building-blocks, Gage for the spacing apart of. C. M. Maddux. No. 915,982; Mar. 23; Sp. p. 4781; Gaz. vol. 140; p. 845.  
 Concrete building-blocks having air-passes, Mold for making. W. F. Penfield. No. 924,373; June 8; Sp. p. 2785; Gaz. vol. 143; p. 453.  
 Concrete building construction. E. L. Ransome. No. 918,699; Apr. 20; Sp. p. 3624; Gaz. vol. 141; p. 642.  
 Concrete building construction. R. V. Woods. No. 941,837; Nov. 30; Sp. p. 7467; Gaz. vol. 148; p. 1255.  
 Concrete-building-construction mold. E. J. Drayer. No. 910,515; Jan. 26; Sp. p. 4276; Gaz. vol. 138; p. 785.  
 Concrete-building-making machine. A. S. Merriett. No. 938,010; Oct. 26; Sp. p. 5027; Gaz. vol. 147; p. 866.  
 Concrete buildings, Forming. P. H. Bosworth. No. 944,594; Dec. 28; Sp. p. 5540; Gaz. vol. 149; p. 961.  
 Concrete buildings, Framework for the construction of. W. W. Carpenter. No. 912,070; Feb. 9; Sp. p. 2154; Gaz. vol. 139; p. 372.  
 Concrete burial-vaults, Mold for casting. C. M. Brown. No. 936,861; Oct. 12; Sp. p. 2627; Gaz. vol. 147; p. 438.  
 Concrete casings, Fitting for. F. A. Koettitz. No. 930,974; Aug. 10; Sp. p. 2797; Gaz. vol. 145; p. 474.  
 Concrete cattle-guard, Reinforced-. J. H. Hammill. No. 928,192; July 13; Sp. p. 3084; Gaz. vol. 144; p. 525.  
 Concrete ceilings and supporting-columns, Means for forming. P. A. and L. P. Deslauriers. No. 944,543; Dec. 28; Sp. p. 5424; Gaz. vol. 149; p. 943.  
 Concrete chimney construction. G. Maschino. No. 933,774; Sept. 14; Sp. p. 1657; Gaz. vol. 146; p. 274.  
 Concrete column. E. V. Johnson. No. 922,910; May 25; Sp. p. 5810; Gaz. vol. 142; p. 1013.  
 Concrete column, post, and the like, Metal-reinforced. G. J. Schade. No. 943,468; Dec. 14; Sp. p. 3078; Gaz. vol. 149; p. 518.  
 Concrete columns, Means for constructing. P. A. and L. P. Deslauriers. No. 942,169; Dec. 7; Sp. p. 313; Gaz. vol. 149; p. 48.  
 Concrete columns, Mold for. J. H. Magdiel. No. 929,148; July 27; Sp. p. 5068; Gaz. vol. 144; p. 900.  
 Concrete construction. C. F. Lancaster. No. 920,160; May 4; Sp. p. 133; Gaz. vol. 142; p. 21.  
 Concrete construction. S. C. Fiddymant. No. 932,692; Aug. 31; Sp. p. 6496; Gaz. vol. 145; p. 1119.  
 Concrete construction. C. E. Brockhausen. No. 938,458; Nov. 2; Sp. p. 10; Gaz. vol. 148; p. 4.  
 Concrete construction. C. W. Horton. No. 942,447; Dec. 7; Sp. p. 866; Gaz. vol. 149; p. 141.  
 Concrete construction and producing same. G. A. M. Liljencrantz. No. 925,204; June 15; Sp. p. 4481; Gaz. vol. 143; p. 765.  
 Concrete construction for floors, walls, ceilings, &c., Reinforced. M. Waddell. No. 926,152; June 29; Sp. p. 6423; Gaz. vol. 143; p. 1139.  
 Concrete construction for piers and docks, Reinforced. E. C. Lawrence and O. F. Lackey. No. 906,783; Jan. 5; Sp. p. 739; Gaz. vol. 138; p. 116.  
 Concrete-construction form. J. Carr. No. 925,080; June 15; Sp. p. 4238; Gaz. vol. 143; p. 721.  
 Concrete-construction forms, Bond of. C. M. Markham. No. 928,392; July 20; Sp. p. 3530; Gaz. vol. 144; p. 624.



*Alphabetical list of inventions—Continued.*

- Concrete construction, Metal reinforcement for metal-reinforced. W. S. Ferguson. No. 943,402; Dec. 14; Sp. p. 2934; Gaz. vol. 149; p. 495.
- Concrete construction, Metal tie for. E. Chapman. No. 941,616; Nov. 30; Sp. p. 6969; Gaz. vol. 148; p. 1179.
- Concrete construction, Metallic reinforcement for. D. A. Wedmore. No. 918,715; Apr. 20; Sp. p. 3660; Gaz. vol. 141; p. 649.
- Concrete construction, Metallic reinforcement for. D. A. Wedmore. No. 918,716; Apr. 20; Sp. p. 3662; Gaz. vol. 141; p. 649.
- Concrete construction, Metallic reinforcement for. D. A. Wedmore. No. 919,100; Apr. 20; Sp. p. 4423; Gaz. vol. 141; p. 773.
- Concrete construction, Metallic reinforcing-bar for. R. J. Grace. No. 942,202; Dec. 7; Sp. p. 376; Gaz. vol. 149; p. 57.
- Concrete construction, Reinforced. E. F. Wilcox. No. 913,083; Feb. 23; Sp. p. 4247; Gaz. vol. 139; p. 769.
- Concrete construction, Reinforced. G. A. Masters. No. 916,748; Mar. 30; Sp. p. 6250; Gaz. vol. 140; p. 1118.
- Concrete construction, Reinforced. W. J. Warren. No. 918,231; Apr. 13; Sp. p. 2580; Gaz. vol. 141; p. 460.
- Concrete construction, Reinforced. W. Raster. No. 921,626; May 11; Sp. p. 3152; Gaz. vol. 142; p. 539.
- Concrete construction, Reinforced. E. J. Moore. No. 924,090; June 8; Sp. p. 2136; Gaz. vol. 143; p. 356.
- Concrete construction, Reinforced. R. D. Foster and G. Schulz. No. 931,049; Aug. 17; Sp. p. 2993; Gaz. vol. 145; p. 528.
- Concrete construction, Reinforced. S. H. Summerscales. No. 944,110; Dec. 21; Sp. p. 4470; Gaz. vol. 149; p. 768.
- Concrete-construction reinforcing-bar. P. T. Large. No. 931,320; Aug. 17; Sp. p. 3604; Gaz. vol. 145; p. 622.
- Concrete construction, Shear-bar for reinforced. C. T. Lindsay. No. 925,643; June 22; Sp. p. 5343; Gaz. vol. 143; p. 935.
- Concrete constructions, Means for reinforcing. J. T. Simpson. No. 928,475; July 20; Sp. p. 3695; Gaz. vol. 144; p. 650.
- Concrete constructions, Reinforcing-bar for. J. M. Dudley. No. 928,430; July 20; Sp. p. 3594; Gaz. vol. 144; p. 636.
- Concrete conveying and mixing cart. F. H. Lathrop. No. 939,275; Nov. 9; Sp. p. 1795; Gaz. vol. 148; p. 310.
- Concrete-culvert mold. T. B. Abercrombie. No. 921,497; May 11; Sp. p. 2881; Gaz. vol. 142; p. 496.
- Concrete culverts and bridges, Portable mold for. A. J. Fisher. No. 920,448; May 4; Sp. p. 726; Gaz. vol. 142; p. 116.
- Concrete culverts, Method and apparatus for making. H. Noah. No. 929,694; Aug. 3; Sp. p. 108; Gaz. vol. 145; p. 20.
- Concrete dam. H. A. Icke. No. 942,645; Dec. 7; Sp. p. 1279; Gaz. vol. 149; p. 209.
- Concrete fence-post. W. A. Bryant. No. 943,648; Dec. 21; Sp. p. 3512; Gaz. vol. 149; p. 611.
- Concrete-fence-post-forming apparatus. J. W. Millam. No. 925,009; June 15; Sp. p. 4109; Gaz. vol. 143; p. 699.
- Concrete, Float of reinforced. C. Gabellini. No. 920,046; Apr. 27; Sp. p. 6606; Gaz. vol. 141; p. 1124.
- Concrete floor. F. W. Skinner. No. 915,801; Mar. 23; Sp. p. 4432; Gaz. vol. 140; p. 787.
- Concrete floor. J. McMillen. No. 925,941; June 22; Sp. p. 5981; Gaz. vol. 143; p. 1033.
- Concrete floor construction. F. C. Taxis. No. 910,971; Jan. 26; Sp. p. 5169; Gaz. vol. 138; p. 932.
- Concrete floor construction. O. Gottschalk. No. 917,050; Apr. 6; Sp. p. 183; Gaz. vol. 141; p. 34.
- Concrete floor construction, Fireproof. J. D. Harrison. No. 913,820; Mar. 2; Sp. p. 293; Gaz. vol. 140; p. 50.
- Concrete floor construction, Reinforced. W. Gabriel. No. 908,658; Jan. 5; Sp. p. 497; Gaz. vol. 138; p. 77.
- Concrete floor construction, Reinforced. U. S. G. Athey. No. 940,296; Nov. 16; Sp. p. 4095; Gaz. vol. 148; p. 694.
- Concrete for the construction of fireproof buildings, Fiber. G. Rosenleaf. No. 937,868; Oct. 26; Sp. p. 4735; Gaz. vol. 147; p. 818.
- Concrete-form band-tightener. C. M. Markham. No. 918,568; Apr. 20; Sp. p. 3278; Gaz. vol. 141; p. 597.
- Concrete form, Permanent. M. D. Murray. No. 929,969; Aug. 3; Sp. p. 731; Gaz. vol. 145; p. 117.
- Concrete forms, Apparatus and process for molding. H. A. Loser. No. 937,620; Oct. 19; Sp. p. 4218; Gaz. vol. 147; p. 718.
- Concrete frame for door and window openings. J. H. and D. H. Magdiel. No. 914,590; Mar. 9; Sp. p. 1966; Gaz. vol. 140; p. 335.
- Concrete girder-frames, Crossover for. E. N. and R. E. Spaulding. No. 929,890; Aug. 5; Sp. p. 578; Gaz. vol. 145; p. 91.
- Concrete, Hanger-socket for reinforced. F. N. Kneass. No. 923,188; June 1; Sp. p. 142; Gaz. vol. 143; p. 24.
- Concrete, hog-trough and valve. J. Robertson. No. 925,948; June 22; Sp. p. 5991; Gaz. vol. 143; p. 1035.
- Concrete holding and carrying device. A. N. Doud. No. 928,858; July 20; Sp. p. 4450; Gaz. vol. 144; p. 776.
- Concrete-incased pile. J. C. Black and J. F. Eaton. No. 910,453; Jan. 19; Sp. p. 4133; Gaz. vol. 138; p. 741.
- Concrete manhole-cover, Reinforced. J. P. Rogers. No. 908,805; Jan. 5; Sp. p. 776; Gaz. vol. 138; p. 122.
- Concrete manhole or catch-basin. P. G. Harshbarger. No. 929,644; July 27; Sp. p. 6080; Gaz. vol. 144; p. 1063.
- Concrete, Means for filling holes with. L. E. Welsh. No. 940,100; Nov. 16; Sp. p. 3675; Gaz. vol. 148; p. 626.
- Concrete metal reinforcement. G. F. Dodge. No. 909,850; Jan. 12; Sp. p. 2841; Gaz. vol. 138; p. 500.
- Concrete-mixer. A. D. Hadsel. No. 909,784; Jan. 12; Sp. p. 2712; Gaz. vol. 138; p. 480.
- Concrete-mixer. W. E. Hassam. No. 912,125; Feb. 9; Sp. p. 2253; Gaz. vol. 139; p. 390.
- Concrete-mixer. C. E. Bathrick. No. 920,416; May 4; Sp. p. 669; Gaz. vol. 142; p. 106.
- Concrete-mixer. D. E. Jones. No. 920,958; May 11; Sp. p. 1767; Gaz. vol. 142; p. 958.
- Concrete-mixer. D. Stevens and S. L. Thomas. No. 921,480; May 11; Sp. p. 2851; Gaz. vol. 142; p. 490.
- Concrete-mixer. M. J. Demorest. No. 922,860; May 25; Sp. p. 5693; Gaz. vol. 142; p. 998.
- Concrete-mixer. W. D. E. S., and J. G. Clough. No. 927,117; July 6; Sp. p. 878; Gaz. vol. 144; p. 141.
- Concrete-mixer. J. W. Stuart. No. 930,900; Aug. 10; Sp. p. 2637; Gaz. vol. 145; p. 452.
- Concrete-mixer. H. C. Townsend. No. 933,501; Sept. 7; Sp. p. 1121; Gaz. vol. 146; p. 161.
- Concrete-mixer. M. J. Demorest. No. 935,782; Oct. 5; Sp. p. 360; Gaz. vol. 147; p. 54.
- Concrete-mixer. L. W. Cargill. No. 935,891; Oct. 5; Sp. p. 624; Gaz. vol. 147; p. 90.
- Concrete-mixer. M. H. Reed. No. 939,629; Nov. 9; Sp. p. 2618; Gaz. vol. 148; p. 431.
- Concrete-mixer. G. S. Noble. No. 944,102; Dec. 21; Sp. p. 4438; Gaz. vol. 149; p. 765.
- Concrete mixer and spreader. P. J. Lyback. No. 923,868; June 8; Sp. p. 1725; Gaz. vol. 143; p. 287.
- Concrete-mixer feeder. O. J. Dunham. No. 943,660; Dec. 21; Sp. p. 3533; Gaz. vol. 149; p. 615.
- Concrete-mixer, Portable. B. G. Leake. No. 914,291; Mar. 2; Sp. p. 1355; Gaz. vol. 140; p. 210.
- Concrete-mixer, Portable. C. W. Overturf. No. 937,638; Oct. 19; Sp. p. 4249; Gaz. vol. 147; p. 724.
- Concrete-mixers, Feed mechanism for. L. W. Cargill. No. 926,172; June 29; Sp. p. 6470; Gaz. vol. 143; p. 1146.
- Concrete-mixers, Measuring attachment for. L. W. Cargill. No. 926,171; June 29; Sp. p. 6469; Gaz. vol. 143; p. 1146.
- Concrete-mixers, Power charging device for. E. B. Symons. No. 934,234; Sept. 14; Sp. p. 2575; Gaz. vol. 146; p. 426.
- Concrete-mixers, Power charging device for. A. E. Smith. No. 939,341; Nov. 9; Sp. p. 1970; Gaz. vol. 148; p. 335.
- Concrete-mixing machine. H. S. Scott and M. L. Dilgard. No. 931,657; Aug. 17; Sp. p. 4269; Gaz. vol. 145; p. 729.
- Concrete-mixing machine. W. M. Ewing. No. 936,875; Oct. 12; Sp. p. 2655; Gaz. vol. 147; p. 442.
- Concrete-mixing machine. R. G. Leverich. No. 941,998; Nov. 30; Sp. p. 7771; Gaz. vol. 148; p. 1310.
- Concrete-mold. W. H. Alexander. No. 922,997; May 25; Sp. p. 5971; Gaz. vol. 142; p. 1041.
- Concrete-mold. R. N. Neil. No. 929,470; July 27; Sp. p. 5729; Gaz. vol. 144; p. 1006.
- Concrete-mold. D. E. Tingley. No. 931,351; Aug. 17; Sp. p. 3666; Gaz. vol. 145; p. 633.
- Concrete-molding apparatus. J. F. Ross. No. 917,141; Apr. 6; Sp. p. 378; Gaz. vol. 141; p. 65.
- Concrete-molding implement. J. F. Ross. No. 917,142; Apr. 6; Sp. p. 380; Gaz. vol. 141; p. 66.
- Concrete-molding machine. J. A. McNamara. No. 935,678; Oct. 5; Sp. p. 115; Gaz. vol. 147; p. 19.
- Concrete-molding machine, Combination. J. H. Wiest. No. 939,118; Nov. 2; Sp. p. 1416; Gaz. vol. 148; p. 231.
- Concrete, mortar, and the like, Apparatus for making. L. M. Reed. No. 930,084; Aug. 3; Sp. p. 971; Gaz. vol. 145; p. 157.
- Concrete or cementitious compounds, Apparatus for making. L. M. Reed. No. 930,086; Aug. 3; Sp. p. 976; Gaz. vol. 145; p. 158.
- Concrete or cementitious compounds, Making. L. M. Reed. No. 930,085; Aug. 3; Sp. p. 974; Gaz. vol. 145; p. 158.
- Concrete or other plastic material, Apparatus for use in building structures of. D. Morgan. No. 913,538; Feb. 23; Sp. p. 5174; Gaz. vol. 139; p. 923.
- Concrete partition, Reinforced. G. M. Graham. No. 938,659; Nov. 2; Sp. p. 478; Gaz. vol. 148; p. 73.
- Concrete pavements, Laying. F. S. Lamson. No. 941,886; Nov. 30; Sp. p. 7561; Gaz. vol. 148; p. 1272.
- Concrete piers, &c., Corner-plate for. J. C. Sunderland. No. 916,378; Mar. 23; Sp. p. 5501; Gaz. vol. 140; p. 976.
- Concrete pile for pier and foundation construction, Reinforced. C. E. Lamburth. No. 941,078; Nov. 23; Sp. p. 5810; Gaz. vol. 148; p. 980.
- Concrete-pile former, Compressible. E. D. Whitney. No. 933,280; Sept. 7; Sp. p. 572; Gaz. vol. 146; p. 88.
- Concrete pile, Reinforced. T. Stedman. No. 942,018; Nov. 30; Sp. p. 7812; Gaz. vol. 148; p. 1315.
- Concrete piles, Method and apparatus for sinking. F. B. Gilbreth. No. 911,971; Feb. 9; Sp. p. 1937; Gaz. vol. 139; p. 340.
- Concrete piling and production thereof. L. Wolfley. No. 910,252; Jan. 19; Sp. p. 3716; Gaz. vol. 138; p. 672.
- Concrete piling, Reinforced. J. P. Holmes. No. 942,142; Dec. 7; Sp. p. 257; Gaz. vol. 149; p. 38.
- Concrete pipe, Mold for making cement. H. H. Gardner. No. 920,317; May 4; Sp. p. 470; Gaz. vol. 142; p. 73.
- Concrete-pipe sections, Apparatus for handling. J. C. Mitchell and C. Meriwether. No. 933,093; Sept. 7; Sp. p. 119; Gaz. vol. 146; p. 20.
- Concrete pipe structure, Reinforced. H. R. McMahon. No. 912,318; Feb. 16; Sp. p. 2672; Gaz. vol. 139; p. 489.
- Concrete pipes, Apparatus for constructing. F. Teichman. No. 930,813; Aug. 10; Sp. p. 2447; Gaz. vol. 145; p. 423.
- Concrete pipes, Apparatus for laying. E. L. Ransome. No. 910,578; Jan. 26; Sp. p. 4404; Gaz. vol. 138; p. 807.
- Concrete pipes, Machine for making. J. Thomas. No. 931,972; Aug. 24; Sp. p. 4992; Gaz. vol. 145; p. 855.
- Concrete pipes, Method and apparatus for molding. E. L. Ransome. No. 910,577; Jan. 26; Sp. p. 4401; Gaz. vol. 138; p. 806.
- Concrete plant-protector. J. H. Haley. No. 924,549; June 8; Sp. p. 3128; Gaz. vol. 143; p. 510.
- Concrete post. E. U. Down. No. 931,396; Aug. 17; Sp. p. 3761; Gaz. vol. 145; p. 649.
- Concrete post. H. H. Johanning. No. 931,616; Aug. 17; Sp. p. 4177; Gaz. vol. 145; p. 716.
- Concrete post. W. A. Nelson, Jr., and R. L. Appling. No. 933,329; Sept. 7; Sp. p. 673; Gaz. vol. 146; p. 329.



*Alphabetical list of inventions—Continued.*

- Concrete-post machine. H. Durr. No. 930,745; Aug. 10; Sp. p. 2309; Gaz. vol. 145; p. 401.
- Concrete post, Reinforced-. J. Needs. No. 910,843; Jan. 26; Sp. p. 4932; Gaz. vol. 138; p. 890.
- Concrete post, Reinforced-. J. H. Carpenter. No. 930,040; Aug. 3; Sp. p. 877; Gaz. vol. 145; p. 142.
- Concrete post, Reinforced-. P. J. Haas. No. 937,794; Oct. 26; Sp. p. 4585; Gaz. vol. 147; p. 794.
- Concrete railway-tie. J. P. Donovan. No. 936,428; Oct. 12; Sp. p. 1749; Gaz. vol. 147; p. 292.
- Concrete railway-ties, Apparatus for molding. J. P. Donovan. No. 937,026; Oct. 12; Sp. p. 2961; Gaz. vol. 147; p. 492.
- Concrete receptacles, Form or mold for. R. C. Morris. No. 939,059; Nov. 2; Sp. p. 1301; Gaz. vol. 148; p. 210.
- Concrete-reinforce. H. E. White. No. 934,378; Sept. 14; Sp. p. 2842; Gaz. vol. 146; p. 474.
- Concrete, Reinforced. H. J. Quereau. No. 918,366; Apr. 13; Sp. p. 2844; Gaz. vol. 141; p. 503.
- Concrete, Reinforced. F. Thun. No. 939,567; Nov. 9; Sp. p. 2475; Gaz. vol. 148; p. 410.
- Concrete-reinforcing bar. A. E. Lindau. No. 917,878; Apr. 13; Sp. p. 1845; Gaz. vol. 141; p. 337.
- Concrete-reinforcing bar. E. Cannes. No. 925,750; June 22; Sp. p. 5560; Gaz. vol. 143; p. 969.
- Concrete-reinforcing bar. J. M. Dudley. No. 931,185; Aug. 17; Sp. p. 3296; Gaz. vol. 145; p. 574.
- Concrete-reinforcing bar. J. M. Dudley. No. 939,403; Nov. 9; Sp. p. 2139; Gaz. vol. 148; p. 355.
- Concrete reinforcing construction. J. W. Linzee, Jr. No. 943,310; Dec. 14; Sp. p. 2744; Gaz. vol. 149; p. 463.
- Concrete-reinforcing frames and product thereof, Manufacturing. P. E. and R. L. Bertin. No. 929,748; Aug. 3; Sp. p. 241; Gaz. vol. 146; p. 42.
- Concrete-reinforcing, Holder for. J. W. Reed. No. 939,743; Nov. 9; Sp. p. 2860; Gaz. vol. 148; p. 471.
- Concrete-reinforcing means. E. G. du Mazuel. No. 922,305; May 18; Sp. p. 4534; Gaz. vol. 142; p. 788.
- Concrete road-beds, Apparatus for laying. F. M. Talbot. No. 926,443; June 29; Sp. p. 7007; Gaz. vol. 143; p. 1234.
- Concrete shingle. E. P. Auger. No. 912,057; Feb. 9; Sp. p. 2131; Gaz. vol. 139; p. 367.
- Concrete shingle. J. H. Wiest. No. 938,930; Nov. 2; Sp. p. 1057; Gaz. vol. 148; p. 167.
- Concrete sidewalks, curbs, &c., Apparatus for laying. E. L. Ransome. No. 940,061; Nov. 16; Sp. p. 3577; Gaz. vol. 148; p. 612.
- Concrete slab, Reinforced-. W. A. Fusch. No. 917,859; Apr. 13; Sp. p. 1796; Gaz. vol. 141; p. 330.
- Concrete slabs, Production of hollow reinforced-. M. Milankovitch. No. 940,041; Nov. 16; Sp. p. 3529; Gaz. vol. 148; p. 604.
- Concrete sleepers, Block for receiving rail-fixing devices in reinforced-. G. Liebeaux and F. Hennebique. No. 932,300; Aug. 24; Sp. p. 5660; Gaz. vol. 145; p. 966.
- Concrete, Spring-clip stirrup for reinforced. W. K. Fellows. No. 934,433; Sept. 21; Sp. p. 2959; Gaz. vol. 146; p. 516.
- Concrete-steel construction. W. Mueser. No. 940,399; Nov. 16; Sp. p. 4362; Gaz. vol. 148; p. 730.
- Concrete-steel constructions, Fixture-support for. L. P. Alford. No. 936,690; Oct. 12; Sp. p. 2300; Gaz. vol. 147; p. 382.
- Concrete-structure girder, Reinforced-. G. M. Graham. No. 910,124; Jan. 19; Sp. p. 3402; Gaz. vol. 138; p. 624.
- Concrete structure, Reinforced. L. White. No. 912,219; Feb. 9; Sp. p. 2415; Gaz. vol. 139; p. 417.
- Concrete structure, Reinforced. G. M. Graham. No. 919,714; Apr. 27; Sp. p. 5907; Gaz. vol. 141; p. 1014.
- Concrete-structure reinforcing-truss. H. E. White. No. 919,273; Apr. 20; Sp. p. 4949; Gaz. vol. 141; p. 830.
- Concrete structure, Reinforced. E. McCullough. No. 934,089; Sept. 14; Sp. p. 2285; Gaz. vol. 146; p. 375.
- Concrete structure, Reinforced. G. M. Graham. No. 938,662; Nov. 2; Sp. p. 482; Gaz. vol. 148; p. 74.
- Concrete structure, Reinforced. M. Dumas. No. 942,625; Dec. 7; Sp. p. 1237; Gaz. vol. 149; p. 202.
- Concrete-structure reinforcing-frame. G. M. Graham. No. 910,469; Jan. 19; Sp. p. 4170; Gaz. vol. 138; p. 446.
- Concrete-structure reinforcing-frame. G. M. Graham. No. 910,470; Jan. 19; Sp. p. 4171; Gaz. vol. 138; p. 746.
- Concrete-structure reinforcing-frame. G. M. Graham. No. 938,661; Nov. 2; Sp. p. 481; Gaz. vol. 148; p. 74.
- Concrete structures, Apparatus for building hollow. J. H. McCoy. No. 942,402; Dec. 7; Sp. p. 775; Gaz. vol. 149; p. 125.
- Concrete structures, Constructing sunken. W. H. Fahrney. No. 928,646; July 20; Sp. p. 4053; Gaz. vol. 144; p. 705.
- Concrete structures, Erecting reinforced. G. M. Graham. No. 938,660; Nov. 2; Sp. p. 479; Gaz. vol. 148; p. 73.
- Concrete structures, Metal reinforce for. E. White. No. 917,822; Apr. 13; Sp. p. 1730; Gaz. vol. 141; p. 318.
- Concrete structures, Mold for making. J. M. Timmons. No. 940,090; Nov. 16; Sp. p. 3643; Gaz. vol. 148; p. 622.
- Concrete structures, Molding apparatus for forming sunken. W. H. Fahrney. No. 921,211; May 11; Sp. p. 2285; Gaz. vol. 142; p. 401.
- Concrete structures, Producing. C. W. Chappelow. No. 937,142; Oct. 19; Sp. p. 3202; Gaz. vol. 147; p. 560.
- Concrete structures, Reinforcing-bar for. D. Baum, Jr. No. 914,589; Dec. 28; Sp. p. 5532; Gaz. vol. 149; p. 959.
- Concrete structures, Reinforcing means for. E. R. Boyle and W. B. Upton. No. 925,989; June 22; Sp. p. 6065; Gaz. vol. 143; p. 1049.
- Concrete supporting-beam, Reinforced-. J. Needs. No. 910,947; Jan. 26; Sp. p. 5127; Gaz. vol. 138; p. 924.
- Concrete tie. N. P. Frandsen. No. 912,663; Feb. 16; Sp. p. 3383; Gaz. vol. 139; p. 607.
- Concrete tie and rail-fastening. A. O. Coffin. No. 943,519; Dec. 14; Sp. p. 3190; Gaz. vol. 149; p. 536.
- Concrete tie, Reinforced-. W. Dunson. No. 909,378; Jan. 12; Sp. p. 1921; Gaz. vol. 138; p. 343.
- Concrete-tile mold. B. T. Beckman. No. 939,968; Nov. 16; Sp. p. 3343; Gaz. vol. 148; p. 578.
- Concrete-tile mold, Portable. F. M. Wiltrott. No. 939,578; Nov. 9; Sp. p. 2499; Gaz. vol. 148; p. 414.
- Concrete-tile-molding machine. D. Fuhrer. No. 935,904; Oct. 5; Sp. p. 651; Gaz. vol. 147; p. 95.
- Concrete tiling, Machine for making. R. Z. Snell. No. 928,812; July 20; Sp. p. 4357; Gaz. vol. 144; p. 760.
- Concrete wall. P. H. Bosworth. No. 927,215; July 6; Sp. p. 1064; Gaz. vol. 144; p. 172.
- Concrete-wall construction. J. Macbeth. No. 938,678; Nov. 2; Sp. p. 520; Gaz. vol. 148; p. 79.
- Concrete-wall construction. G. W. Vought. No. 924,405; June 8; Sp. p. 2840; Gaz. vol. 143; p. 463.
- Concrete-wall construction mold. G. Taubert. No. 913,441; Feb. 23; Sp. p. 4975; Gaz. vol. 139; p. 891.
- Concrete-wall mold. W. E. Turkington. No. 910,883; Jan. 26; Sp. p. 5014; Gaz. vol. 138; p. 903.
- Concrete-wall mold. D. A. Marshall. No. 942,004; Nov. 30; Sp. p. 7788; Gaz. vol. 148; p. 1311.
- Concrete-wall mold, Reinforced-. G. W. Stevens. No. 930,102; Aug. 3; Sp. p. 1015; Gaz. vol. 145; p. 164.
- Concrete walls, Apparatus for molding hollow. W. E. Nelson. No. 943,991; Dec. 21; Sp. p. 4219; Gaz. vol. 149; p. 728.
- Concrete walls, Apparatus to be employed in building. R. Bowen. No. 919,687; Apr. 27; Sp. p. 5856; Gaz. vol. 141; p. 1005.
- Concrete walls, Machine for making. A. J. Innes. No. 925,912; June 22; Sp. p. 5924; Gaz. vol. 143; p. 1023.
- Concrete walls, Manufacture of. C. C. McCarty. No. 915,995; Mar. 23; Sp. p. 4805; Gaz. vol. 140; p. 849.
- Concrete walls, Mold construction for. J. Mueller. No. 936,798; Oct. 12; Sp. p. 2507; Gaz. vol. 147; p. 417.
- Concrete walls, Mold for use in erecting. C. H. Witthoefft. No. 916,084; Mar. 23; Sp. p. 4960; Gaz. vol. 140; p. 879.
- Concrete walls, One-side mold for. J. H. Magdiel. No. 926,269; June 29; Sp. p. 6672; Gaz. vol. 143; p. 1178.
- Concrete water pipe or conduit, Reinforced-. J. M. Phelan. No. 912,885; Feb. 16; Sp. p. 3850; Gaz. vol. 139; p. 679.
- Concrete work, Form for. O. E. McMahon. No. 933,327; Sept. 7; Sp. p. 667; Gaz. vol. 146; p. 327.
- Concrete work in the water, Building. E. H. Kirk. No. 936,638; Oct. 12; Sp. p. 2197; Gaz. vol. 147; p. 363.
- Concrete-work, Reinforcing-bar for. E. C. Woodward. No. 913,603; Feb. 23; Sp. p. 5334; Gaz. vol. 139; p. 944.
- Condensation product and making same. L. H. Baekeland. No. 942,809; Dec. 7; Sp. p. 1594; Gaz. vol. 149; p. 262.
- Condenser. J. S. Stone. No. 908,814; Jan. 5; Sp. p. 794; Gaz. vol. 138; p. 125.
- Condenser. G. M. Newhall. No. 909,650; Jan. 12; Sp. p. 2456; Gaz. vol. 138; p. 435.
- Condenser. R. D. Tomlinson. No. 919,265; Apr. 20; Sp. p. 4929; Gaz. vol. 141; p. 826.
- Condenser. H. Lemp. No. 920,591; May 4; Sp. p. 1011; Gaz. vol. 142; p. 164.
- Condenser. W. A. Moffatt. No. 923,684; June 1; Sp. p. 1257; Gaz. vol. 143; p. 195.
- Condenser. A. Pruessman. No. 923,889; June 8; Sp. p. 1764; Gaz. vol. 143; p. 294.
- Condenser. A. R. Everest. No. 925,165; June 15; Sp. p. 4405; Gaz. vol. 143; p. 752.
- Condenser. H. A. Hogel. No. 926,943; July 6; Sp. p. 491; Gaz. vol. 144; p. 80.
- Condenser. A. Kuylenstierna. No. 927,251; July 6; Sp. p. 1137; Gaz. vol. 144; p. 185.
- Condenser. G. B. Petsche. No. 933,849; Sept. 14; Sp. p. 1814; Gaz. vol. 146; p. 299.
- Condenser. E. N. Woodruff. No. 935,446; Sept. 28; Sp. p. 4963; Gaz. vol. 146; p. 877.
- Condenser. F. J. Newton. No. 935,923; Oct. 5; Sp. p. 694; Gaz. vol. 147; p. 102.
- Condenser. J. Anderson. No. 936,397; Oct. 12; Sp. p. 1661; Gaz. vol. 147; p. 282.
- Condenser. C. J. A. Gottlieb. No. 938,476; Nov. 2; Sp. p. 47; Gaz. vol. 148; p. 10.
- Condenser and making same, Electrical. H. Shoemaker and F. W. Midgley. No. 928,224; July 13; Sp. p. 3144; Gaz. vol. 144; p. 535.
- Condenser combined with autotransformer, Electrolytic. E. E. F. Creighton. No. 933,697; Sept. 7; Sp. p. 1501; Gaz. vol. 146; p. 226.
- Condenser, Electric. E. Denipout. No. 934,714; Sept. 21; Sp. p. 3504; Gaz. vol. 146; p. 610.
- Condenser, Electrolyte-. I. Moscicki. No. 926,128; June 29; Sp. p. 6364; Gaz. vol. 143; p. 1130.
- Condenser, Hydro-. H. Shoemaker. No. 921,014; May 11; Sp. p. 1870; Gaz. vol. 142; p. 332.
- Condenser, Metallurgical. W. M. Johnson. No. 933,843; Sept. 14; Sp. p. 1803; Gaz. vol. 146; p. 297.
- Condenser plant. R. D. Tomlinson. No. 915,318; Mar. 16; Sp. p. 3433; Gaz. vol. 140; p. 599.
- Condenser plant. R. D. Tomlinson. No. 919,266; Apr. 20; Sp. p. 4930; Gaz. vol. 141; p. 827.
- Condenser, Static. C. D. Babcock. No. 918,257; Apr. 13; Sp. p. 2643; Gaz. vol. 141; p. 468.
- Condenser, Steam-. E. Koerting. No. 926,138; June 29; Sp. p. 6529; Gaz. vol. 143; p. 1155.
- Condenser, Steam-. G. Hartman. No. 928,125; July 13; Sp. p. 2929; Gaz. vol. 144; p. 501.
- Condenser, Steam-. R. D. Tomlinson. No. 940,648; Nov. 16; Sp. p. 4880; Gaz. vol. 148; p. 812.



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- Condenser support, Steam-. L. R. Alberger. No. 914,778; Mar. 9; Sp. p. 2366; Gaz. vol. 140; p. 397.  
 Condenser support, Steam-. L. R. Alberger. No. 916,404; Mar. 30; Sp. p. 5573; Gaz. vol. 140; p. 1010.  
 Condenser, Surface. J. F. M. Patitz. No. 919,208; Apr. 20; Sp. p. 4632; Gaz. vol. 141; p. 808.  
 Condenser, Surface. Y. Wadagaki. No. 942,423; Dec. 7; Sp. p. 810; Gaz. vol. 149; p. 133.  
 Condensing apparatus, Steam-. D. A. Quiggin. No. 925,506; June 22; Sp. p. 5052; Gaz. vol. 143; p. 890.  
 Condensing fumes. H. A. Hogel. No. 927,241; July 6; Sp. p. 1117; Gaz. vol. 144; p. 181.  
 Condensing system. S. Woolf and C. W. Rafferty. No. 932,226; Aug. 24; Sp. p. 5527; Gaz. vol. 145; p. 940.  
 Condiment and toothpick holder, Combination. G. A. Baeder and G. Lude. No. 918,115; Apr. 13; Sp. p. 2352; Gaz. vol. 141; p. 421.  
 Condiment-holder. H. J. McWilliams. No. 909,202; Jan. 12; Sp. p. 1592; Gaz. vol. 138; p. 286.  
 Condiment-holder. J. W. Meaker. No. 913,028; Feb. 23; Sp. p. 4136; Gaz. vol. 139; p. 751.  
 Condiment-holder. J. W. Meaker. No. 913,029; Feb. 23; Sp. p. 4137; Gaz. vol. 139; p. 751.  
 Condiment-holder. H. W. Watson. No. 923,390; June 1; Sp. p. 646; Gaz. vol. 143; p. 93.  
 Condiment-holder. A. J. Bennett. No. 924,959; June 15; Sp. p. 3992; Gaz. vol. 143; p. 682.  
 Condiment-holder. D. Dillon and H. J. Welsh. No. 925,464; June 22; Sp. p. 4968; Gaz. vol. 143; p. 877.  
 Condiment-holder. A. Wolkenstein. No. 934,493; Sept. 21; Sp. p. 3072; Gaz. vol. 146; p. 535.  
 Condiment-holder. A. Hitt. No. 937,995; Oct. 26; Sp. p. 4998; Gaz. vol. 147; p. 861.  
 Condiment-shaker. E. Gebhardt. No. 942,138; Dec. 7; Sp. p. 248; Gaz. vol. 149; p. 37.  
 Conductor. G. W. Bolton, Jr. No. 918,501; Apr. 20; Sp. p. 3142; Gaz. vol. 141; p. 576.  
 Conductor, Aerial. S. Eisenstein. No. 930,746; Aug. 10; Sp. p. 2311; Gaz. vol. 145; p. 401.  
 Conductor, Armored. G. A. Lutz. No. 916,741; Mar. 30; Sp. p. 6240; Gaz. vol. 140; p. 1117.  
 Conductor, Armored. E. D. Speer. No. 930,896; Aug. 10; Sp. p. 2629; Gaz. vol. 145; p. 450.  
 Conductors to commutator-brushes. Means for connecting. N. W. Storer. No. 910,243; Jan. 19; Sp. p. 3672; Gaz. vol. 138; p. 667.  
 Conduit. E. L. Barnes. No. 921,061; May 11; Sp. p. 1961; Gaz. vol. 142; p. 348.  
 Conduit. W. Houghton. No. 928,606; July 20; Sp. p. 3969; Gaz. vol. 144; p. 692.  
 Conduit-cap for electric installation. W. H. Vibber. No. 943,287; Dec. 14; Sp. p. 2703; Gaz. vol. 149; p. 457.  
 Conduit-clamp and knock-out disk, Combined. W. A. Bonnell. No. 921,585; May 11; Sp. p. 3043; Gaz. vol. 142; p. 523.  
 Conduit-coupling. R. M. Thomas. No. 916,937; Mar. 30; Sp. p. 6628; Gaz. vol. 140; p. 1181.  
 Conduit, Flexible. G. A. Lutz. No. 916,742; Mar. 30; Sp. p. 6242; Gaz. vol. 140; p. 1117.  
 Conduit, Flexible. O. Hoppe. No. 924,782; June 15; Sp. p. 3629; Gaz. vol. 143; p. 623.  
 Conduit, Flexible. G. A. Lutz. No. 934,682; Sept. 21; Sp. p. 3446; Gaz. vol. 146; p. 600.  
 Conduit, Flexible. C. H. Miller. No. 942,787; Dec. 7; Sp. p. 1557; Gaz. vol. 149; p. 256.  
 Conduit, Flexible electric. C. H. Miller. No. 942,789; Dec. 7; Sp. p. 1559; Gaz. vol. 149; p. 257.  
 Conduit for electric wires. C. H. Miller. No. 942,788; Dec. 7; Sp. p. 1558; Gaz. vol. 149; p. 256.  
 Conduit for electric wires, Flexible. C. H. Miller. No. 942,790; Dec. 7; Sp. p. 1560; Gaz. vol. 149; p. 257.  
 Conduit for steam-pipes, Underground. S. W. Hersey. No. 921,399; May 11; Sp. p. 2695; Gaz. vol. 142; p. 463.  
 Conduit, Metal. W. M. Caswell. No. 913,359; Feb. 23; Sp. p. 4814; Gaz. vol. 139; p. 863.  
 Conduit outlet-fixture. H. T. Paiste. No. 919,940; Apr. 27; Sp. p. 6376; Gaz. vol. 141; p. 1089.  
 Conduit-receptacle. J. S. Stewart. No. 914,762; Mar. 9; Sp. p. 2336; Gaz. vol. 140; p. 392.  
 Conduit, Resilient flexible. U. S. Armstrong. No. 910,770; Jan. 26; Sp. p. 4793; Gaz. vol. 138; p. 867.  
 Conduit-rod. E. L. Upson and F. J. Dole. No. 911,854; Feb. 9; Sp. p. 1618; Gaz. vol. 139; p. 300.  
 Conduit, Sectional. W. G. Wight. No. 909,354; Jan. 12; Sp. p. 1869; Gaz. vol. 138; p. 335.  
 Conduit service-box. J. Riddell and J. J. Madden. No. 914,186; Mar. 2; Sp. p. 1148; Gaz. vol. 140; p. 179.  
 Conduit system, Third-rail. P. M. Reynolds. No. 927,428; July 6; Sp. p. 1462; Gaz. vol. 144; p. 242.  
 Conduit-threading machine. H. W. Boddy. No. 916,985; Apr. 6; Sp. p. 40; Gaz. vol. 141; p. 11.  
 Conduit, Underground. S. B. Way and E. C. Freeze. No. 928,826; July 20; Sp. p. 4392; Gaz. vol. 144; p. 765.  
 Conduits, Base for supporting switches and the like upon. G. A. Lutz. No. 917,327; Apr. 6; Sp. p. 763; Gaz. vol. 141; p. 130.  
 Conduits, Cable-operated carrier for. W. W. Alexander and M. J. Appel. No. 928,300; July 20; Sp. p. 3363; Gaz. vol. 144; p. 592.  
 Conduits, Device for joining parts of. G. M. Wehrle. No. 940,098; Nov. 16; Sp. p. 3670; Gaz. vol. 148; p. 625.  
 Conduits, Device for removing obstructions in. T. J. Cope. No. 920,544; May 4; Sp. p. 917; Gaz. vol. 142; p. 148.  
 Conduits for electric wires, Connector for. G. E. Neuberth. No. 920,169; May 4; Sp. p. 148; Gaz. vol. 142; p. 23.  
 Conduits, Means for closing the ends of. A. C. Thompson. No. 917,911; Apr. 13; Sp. p. 1926; Gaz. vol. 141; p. 348.  
 Conduits, Means for holding receptacles and the like to. G. A. Lutz. No. 917,326; Apr. 6; Sp. p. 762; Gaz. vol. 141; p. 130.  
 Conduits, Receptacle or the like for. G. A. Lutz and C. C. Sibley. No. 917,325; Apr. 6; Sp. p. 760; Gaz. vol. 141; p. 129.  
 Conduits, Receptacle or the like for. G. A. Lutz and C. C. Sibley. No. 941,156; Nov. 23; Sp. p. 5985; Gaz. vol. 148; p. 1007.  
 Cone burner, Glass-. A. L. Edwards. No. 914,249; Mar. 2; Sp. p. 1274; Gaz. vol. 140; p. 198.  
 Cone shaper, Edible-. L. L. Westling. No. 913,597; Feb. 23; Sp. p. 5324; Gaz. vol. 139; p. 942.  
 Confection, Liquor-containing. J. Liebich. No. 943,945; Dec. 21; Sp. p. 4115; Gaz. vol. 149; p. 713.  
 Confectioner's dipping-tray. W. R. Clarke. No. 929,555; July 27; Sp. p. 5882; Gaz. vol. 144; p. 1034.  
 Confectioner's melting-table. G. F. Dickson. No. 938,414; Oct. 26; Sp. p. 5924; Gaz. vol. 147; p. 1004.  
 Confectionery-holder. E. J. Adams. No. 927,396; July 6; Sp. p. 1382; Gaz. vol. 144; p. 230.  
 Confectionery-machine. O. F. Granlund. No. 941,070; Nov. 23; Sp. p. 5796; Gaz. vol. 148; p. 978.  
 Confectionery, &c., Machine for dipping. E. Hérisse. No. 915,291; Mar. 16; Sp. p. 3377; Gaz. vol. 140; p. 590.  
 Confectionery machinery. S. Pooley. No. 918,195; Apr. 13; Sp. p. 2502; Gaz. vol. 141; p. 447.  
 Connecting-pin. W. Fulton. No. 914,133; Mar. 2; Sp. p. 1025; Gaz. vol. 140; p. 162.  
 Connecting-rod. J. C. Bird. No. 912,791; Feb. 16; Sp. p. 3708; Gaz. vol. 139; p. 651.  
 Connecting-slide. B. C. Rockwell. No. 927,601; July 13; Sp. p. 1859; Gaz. vol. 144; p. 328.  
 Connection for coöperating members, Flexible. J. E. Webster. No. 931,165; Aug. 17; Sp. p. 3255; Gaz. vol. 145; p. 568.  
 Connection, Releasable. C. H. Dempsey. No. 912,087; Feb. 9; Sp. p. 2177; Gaz. vol. 139; p. 377.  
 Connector. T. A. Hammond. No. 940,012; Nov. 16; Sp. p. 3439; Gaz. vol. 148; p. 594.  
 Connector, Terminal. C. Cuno. No. 916,390; Mar. 23; Sp. p. 5521; Gaz. vol. 140; p. 980.  
 Construction member. J. C. Pelton. No. 930,611; Aug. 10; Sp. p. 2035; Gaz. vol. 145; p. 356.  
 Contact device. C. Brent. No. 928,934; July 27; Sp. p. 4621; Gaz. vol. 144; p. 829.  
 Contact, Electric sliding or other. V. Löwendahl. No. 924,804; June 15; Sp. p. 3676; Gaz. vol. 143; p. 630.  
 Contact-maker. F. E. Kinsman. No. 911,596; Feb. 9; Sp. p. 1118; Gaz. vol. 139; p. 216.  
 Contact-maker. J. F. Webb, Jr. No. 932,924; Aug. 31; Sp. p. 6944; Gaz. vol. 145; p. 1193.  
 Contact-plow support. S. T. Bole. No. 923,484; June 1; Sp. p. 827; Gaz. vol. 143; p. 124.  
 Contact-shoe, Third-rail. R. R. Potter. No. 924,829; June 15; Sp. p. 3729; Gaz. vol. 143; p. 638.  
 Contact timer, Multiple-. E. S. Lincoln. No. 926,066; June 22; Sp. p. 6231; Gaz. vol. 143; p. 1074.  
 Container. F. B. Davidson. No. 910,180; Jan. 19; Sp. p. 3530; Gaz. vol. 138; p. 643.  
 Container. M. D. Porter. No. 916,485; Mar. 30; Sp. p. 5745; Gaz. vol. 140; p. 1037.  
 Container. O. A. Borden. No. 941,303; Nov. 23; Sp. p. 6305; Gaz. vol. 148; p. 1054.  
 Container-closure. H. N. Norton. No. 937,847; Oct. 26; Sp. p. 4692; Gaz. vol. 147; p. 812.  
 Container-coating apparatus. F. J. Macnish. No. 913,964; Mar. 2; Sp. p. 645; Gaz. vol. 140; p. 101.  
 Container, Safety-. W. Asbury. No. 931,370; Aug. 17; Sp. p. 3703; Gaz. vol. 145; p. 640.  
 Container, Single-opening safety-. W. Asbury. No. 914,779; Mar. 9; Sp. p. 2368; Gaz. vol. 140; p. 397.  
 Container-top. B. T. B. Hyde. No. 942,562; Dec. 7; Sp. p. 1116; Gaz. vol. 149; p. 181.  
 Containing-can. C. M. Symonds. No. 934,370; Sept. 14; Sp. p. 2821; Gaz. vol. 146; p. 471.  
 Containing-can. W. H. Hoyt. No. 941,781; Nov. 30; Sp. p. 7354; Gaz. vol. 148; p. 1236.  
 Continuous press. S. J. Vernsten. No. 921,921; May 18; Sp. p. 3764; Gaz. vol. 142; p. 663.  
 Control apparatus. G. H. Hill. No. 927,465; July 6; Sp. p. 1554; Gaz. vol. 144; p. 255.  
 Control, Convertible system of pressure or vacuum. W. J. Richards. No. 930,989; Aug. 10; Sp. p. 2836; Gaz. vol. 145; p. 479.  
 Control mechanism. H. E. Coffin. No. 920,916; May 11; Sp. p. 1685; Gaz. vol. 142; p. 299.  
 Control switch and system. H. D. James. No. 931,126; Aug. 17; Sp. p. 3161; Gaz. vol. 145; p. 554.  
 Control system. E. W. Stull. No. 910,604; Jan. 26; Sp. p. 4472; Gaz. vol. 138; p. 815.  
 Control system. H. D. James. No. 917,868; Apr. 13; Sp. p. 1823; Gaz. vol. 141; p. 333.  
 Control system. H. D. James. No. 924,666; June 15; Sp. p. 3380; Gaz. vol. 143; p. 583.  
 Control system and switch. H. D. James. No. 931,205; Aug. 17; Sp. p. 3346; Gaz. vol. 145; p. 581.  
 Control system, Multiple-voltage. R. P. Jackson. No. 911,011; Jan. 26; Sp. p. 5241; Gaz. vol. 138; p. 944.  
 Controller. J. F. Menningen. No. 910,561; Jan. 26; Sp. p. 4371; Gaz. vol. 138; p. 801.  
 Controller. H. W. Cheney. No. 911,029; Feb. 2; Sp. p. 10; Gaz. vol. 139; p. 5.  
 Controller. H. C. Marmon. No. 911,419; Feb. 2; Sp. p. 769; Gaz. vol. 139; p. 133.  
 Controller. H. W. Cheney. No. 916,843; Mar. 30; Sp. p. 6432; Gaz. vol. 140; p. 1149.  
 Controller. T. von Zweigbergk. No. 918,638; Apr. 20; Sp. p. 3445; Gaz. vol. 141; p. 621.

*Alphabetical list of inventions—Continued.*

- Controller. A. W. Cheney. No. 925,995; June 22; Sp. p. 6078; Gaz. vol. 143; p. 1051.  
 Controller. H. Smith. No. 928,707; July 20; Sp. p. 4165; Gaz. vol. 144; p. 726.  
 Controller and circuit-closer, Combined. D. C. Cookingham. No. 911,030; Feb. 2; Sp. p. 15; Gaz. vol. 139; p. 5.  
 Controller attachment. J. Sontag. No. 929,041; July 27; Sp. p. 4833; Gaz. vol. 144; p. 865.  
 Controller, Automatic. F. R. Fishback. No. 936,878; Oct. 12; Sp. p. 2660; Gaz. vol. 147; p. 443.  
 Controller composing-machine. J. B. Church. No. 915,553; Mar. 16; Sp. p. 3908; Gaz. vol. 140; p. 677.  
 Controller-frame. H. W. Forslund. No. 917,858; Apr. 13; Sp. p. 1794; Gaz. vol. 141; p. 330.  
 Controller-handle. E. W. Stull. No. 934,232; Sept. 14; Sp. p. 2569; Gaz. vol. 146; p. 425.  
 Controller-handle. E. W. Stull. No. 934,233; Sept. 14; Sp. p. 2571; Gaz. vol. 146; p. 425.  
 Controller-regulator. W. P. Cosper and W. J. O. Johnson. No. 915,720; Mar. 16; Sp. p. 4273; Gaz. vol. 140; p. 735.  
 Controller-regulator. C. E. Lord. No. 922,172; May 18; Sp. p. 4254; Gaz. vol. 142; p. 744.  
 Controller-regulator. C. M. Feist. No. 942,722; Dec. 7; Sp. p. 1433; Gaz. vol. 149; p. 234.  
 Controller time-limit device. H. W. Cheney. No. 931,994; Aug. 24; Sp. p. 5035; Gaz. vol. 145; p. 863.  
 Controlling and locking device. G. F. Larkin. No. 927,984; July 13; Sp. p. 2667; Gaz. vol. 144; p. 454.  
 Controlling device. F. D. Howe. No. 914,277; Mar. 2; Sp. p. 1325; Gaz. vol. 140; p. 205.  
 Controlling mechanism for machines acting on sheets or signatures. H. P. Kendall. No. 912,965; Feb. 16; Sp. p. 4009; Gaz. vol. 139; p. 704.  
 Controlling-switch. G. H. Hill. No. 912,128; Feb. 9; Sp. p. 2258; Gaz. vol. 139; p. 391.  
 Converter and storage-battery parallel operation, Rotary-. E. J. Berg. No. 916,981; Apr. 6; Sp. p. 32; Gaz. vol. 141; p. 10.  
 Converter hood and flue. A. P. Turner. No. 942,801; Dec. 7; Sp. p. 1580; Gaz. vol. 149; p. 260.  
 Converter, Metallurgical. W. H. Peirce. No. 942,973; Dec. 14; Sp. p. 2021; Gaz. vol. 149; p. 350.  
 Converter, Metallurgical. W. H. Peirce. No. 942,661; Dec. 7; Sp. p. 1309; Gaz. vol. 149; p. 215.  
 Converter starting device, Vapor-. P. H. Thomas. No. 937,971; Oct. 26; Sp. p. 4944; Gaz. vol. 147; p. 853.  
 Convertible chair. H. A. Britton. No. 925,558; June 22; Sp. p. 5148; Gaz. vol. 143; p. 908.  
 Convertible chair. E. T. Marsh. No. 926,992; July 6; Sp. p. 584; Gaz. vol. 144; p. 96.  
 Convertible seat and bed. C. F. Percival. No. 924,374; June 8; Sp. p. 2787; Gaz. vol. 143; p. 454.  
 Convertible table. A. Shier. No. 918,780; Apr. 20; Sp. p. 3776; Gaz. vol. 141; p. 670.  
 Convertible table and settee. B. Katzenberg. No. 922,287; May 18; Sp. p. 4505; Gaz. vol. 142; p. 782.  
 Convertlet. C. R. Bold. No. 932,433; Aug. 31; Sp. p. 5921; Gaz. vol. 145; p. 1032.  
 Conveyances, Impelling mechanism for. B. F. Seymour. No. 920,191; May 4; Sp. p. 197; Gaz. vol. 142; p. 31.  
 Conveyer. J. B. Denithorne. No. 909,766; Jan. 12; Sp. p. 2684; Gaz. vol. 138; p. 474.  
 Conveyer. H. C. Biertuempfel. No. 915,542; Mar. 16; Sp. p. 3881; Gaz. vol. 140; p. 672.  
 Conveyer. J. H. and D. H. Magdiel. No. 917,331; Apr. 6; Sp. p. 770; Gaz. vol. 141; p. 131.  
 Conveyer. H. Kile. No. 917,769; Apr. 13; Sp. p. 1622; Gaz. vol. 141; p. 302.  
 Conveyer. C. D. Seeburger. No. 917,902; Apr. 13; Sp. p. 1904; Gaz. vol. 141; p. 345.  
 Conveyer. A. J. Meyer. No. 919,615; Apr. 27; Sp. p. 5708; Gaz. vol. 141; p. 982.  
 Conveyer. J. Ashford. No. 924,303; June 8; Sp. p. 2641; Gaz. vol. 143; p. 430.  
 Conveyer. A. A. Lueke. No. 925,928; June 22; Sp. p. 5960; Gaz. vol. 143; p. 1028.  
 Conveyer. C. D. Seeburger. No. 927,685; July 13; Sp. p. 2048; Gaz. vol. 144; p. 356.  
 Conveyer. H. Cory and E. P. Dandridge. No. 933,365; Sept. 7; Sp. p. 753; Gaz. vol. 146; p. 117.  
 Conveyer. B. M. Steele. No. 936,745; Oct. 12; Sp. p. 2400; Gaz. vol. 147; p. 400.  
 Conveyer. C. W. Levalley. No. 936,917; Oct. 12; Sp. p. 2738; Gaz. vol. 147; p. 457.  
 Conveyer. H. B. and J. A. Sauerman. No. 941,045; Nov. 23; Sp. p. 5741; Gaz. vol. 148; p. 969.  
 Conveyer. F. Eberhart. No. 941,364; Nov. 30; Sp. p. 6438; Gaz. vol. 148; p. 1096.  
 Conveyer and leer-charging device. J. McDermott. No. 922,941; May 25; Sp. p. 5879; Gaz. vol. 142; p. 1024.  
 Conveyer apparatus. H. B. and J. A. Sauerman. No. 914,755; Mar. 9; Sp. p. 2826; Gaz. vol. 140; p. 390.  
 Conveyer, Belt. T. Robins. No. 919,638; Apr. 27; Sp. p. 5748; Gaz. vol. 141; p. 989.  
 Conveyer-belt support. E. E. Vrooman. No. 909,833; Jan. 12; Sp. p. 2808; Gaz. vol. 138; p. 495.  
 Conveyer-bucket. J. B. Gibson. No. 939,243; Nov. 9; Sp. p. 1724; Gaz. vol. 148; p. 299.  
 Conveyer, Chain. T. A. Coleman. No. 943,734; Dec. 21; Sp. p. 3676; Gaz. vol. 149; p. 639.  
 Conveyer, Cross-. C. L. Gardner. No. 931,054; Aug. 17; Sp. p. 3002; Gaz. vol. 145; p. 530.  
 Conveyer, Endless-chain. F. Merian. No. 943,121; Dec. 14; Sp. p. 2365; Gaz. vol. 149; p. 402.  
 Conveyer-flight. W. R. Clarkson. No. 919,419; Apr. 27; Sp. p. 5279; Gaz. vol. 141; p. 914.  
 Conveyer, Foldable. C. A. Radcliff. No. 908,609; Jan. 5; Sp. p. 376; Gaz. vol. 138; p. 61.  
 Conveyer, Gravity-. L. D. Logan. No. 935,669; Oct. 5; Sp. p. 96; Gaz. vol. 147; p. 17.  
 Conveyer, Hydraulic lift-. J. E. Haarmann. No. 932,544; Aug. 31; Sp. p. 6165; Gaz. vol. 145; p. 1069.  
 Conveyer, Making helicoid or spiral. C. O. Gustavsen. No. 908,859; Jan. 5; Sp. p. 883; Gaz. vol. 138; p. 140.  
 Conveyer, Mangle-. R. M. Boyce. No. 943,297; Dec. 14; Sp. p. 2724; Gaz. vol. 149; p. 460.  
 Conveyer-pipe. J. Hopkirk. No. 930,668; Aug. 10; Sp. p. 2149; Gaz. vol. 145; p. 376.  
 Conveyer-roller ball-bearing. S. L. Goldman. No. 914,714; Mar. 9; Sp. p. 2233; Gaz. vol. 140; p. 375.  
 Conveyer-spiral. W. Schroer. No. 915,702; Mar. 16; Sp. p. 4233; Gaz. vol. 140; p. 629.  
 Conveyers, Deflector for gravity-. M. C. Schwab. No. 927,176; July 6; Sp. p. 989; Gaz. vol. 144; p. 160.  
 Conveyers, Load-gripping mechanism for. L. C. Davidson. No. 934,890; Sept. 21; Sp. p. 3845; Gaz. vol. 146; p. 668.  
 Conveyers, Machine for making helicoid or spiral. C. O. Gustavsen. No. 908,860; Jan. 5; Sp. p. 885; Gaz. vol. 138; p. 141.  
 Conveyers, Pneumatic jet for. E. W. Rice. No. 934,628; Sept. 21; Sp. p. 3342; Gaz. vol. 146; p. 582.  
 Conveying and distributing mechanism. J. Simons. No. 930,992; Aug. 10; Sp. p. 2847; Gaz. vol. 145; p. 480.  
 Conveying apparatus. J. H. Gilman. No. 913,948; Mar. 2; Sp. p. 605; Gaz. vol. 140; p. 96.  
 Conveying apparatus. S. H. Colwell. No. 915,413; Mar. 16; Sp. p. 3619; Gaz. vol. 140; p. 630.  
 Conveying apparatus. E. N. Johnston. No. 919,178; Apr. 20; Sp. p. 4576; Gaz. vol. 141; p. 798.  
 Conveying apparatus. J. T. Cowley. No. 923,337; June 1; Sp. p. 525; Gaz. vol. 143; p. 75.  
 Conveying apparatus. J. M. Hore. No. 923,356; June 1; Sp. p. 570; Gaz. vol. 143; p. 82.  
 Conveying apparatus. T. S. Miller. (Reissue.) No. 12,969; June 8; Sp. p. 3291; Gaz. vol. 143; p. 537.  
 Conveying apparatus. J. T. Cowley. No. 928,365; July 20; Sp. p. 3482; Gaz. vol. 144; p. 614.  
 Conveying apparatus. W. M. Shaw. No. 931,892; Aug. 24; Sp. p. 4794; Gaz. vol. 145; p. 828.  
 Conveying apparatus. B. R. Adkins and W. Y. Lewis. No. 935,631; Oct. 5; Sp. p. 4; Gaz. vol. 147; p. 3.  
 Conveying system. W. R. Cunningham. No. 928,183; July 13; Sp. p. 3060; Gaz. vol. 144; p. 521.  
 Cooker. P. G. Hubert. No. 920,330; May 4; Sp. p. 489; Gaz. vol. 142; p. 77.  
 Cooker. E. M. Burr. No. 921,509; May 11; Sp. p. 2914; Gaz. vol. 142; p. 500.  
 Cooker. M. M. Newsam. No. 923,690; June 1; Sp. p. 1273; Gaz. vol. 143; p. 198.  
 Cooker. J. C. Prims. No. 928,795; July 20; Sp. p. 4333; Gaz. vol. 144; p. 755.  
 Cooker. J. B. Dodson. No. 930,461; Aug. 10; Sp. p. 1687; Gaz. vol. 145; p. 304.  
 Cooker and processor, Agitating. J. Jennings. (Reissue.) No. 13,015; Aug. 24; Sp. p. 5892; Gaz. vol. 145; p. 1006.  
 Cooker, Can-. J. Cook. No. 942,812; Dec. 7; Sp. p. 1604; Gaz. vol. 149; p. 263.  
 Cooker, Egg-. D. H. Moore. No. 941,265; Nov. 23; Sp. p. 6223; Gaz. vol. 148; p. 1043.  
 Cooker, Feed-. L. D. Dewey, 2d. No. 925,463; June 22; Sp. p. 4967; Gaz. vol. 143; p. 877.  
 Cooker, Fireless. A. S. Langille. No. 915,612; Mar. 16; Sp. p. 4030; Gaz. vol. 140; p. 696.  
 Cooker, Fireless. A. T. Hallock. No. 917,055; Apr. 6; Sp. p. 191; Gaz. vol. 141; p. 36.  
 Cooker, Fireless. A. T. Hallock. No. 917,056; Apr. 6; Sp. p. 192; Gaz. vol. 141; p. 36.  
 Cooker, Fireless. P. G. Hubert. No. 920,329; May 4; Sp. p. 488; Gaz. vol. 142; p. 77.  
 Cooker, Fireless. P. E. Little. No. 923,866; June 8; Sp. p. 1721; Gaz. vol. 143; p. 286.  
 Cooker, Fireless. G. A. Marsh and H. H. Thompson. No. 930,204; Aug. 3; Sp. p. 1205; Gaz. vol. 145; p. 197.  
 Cooker, Fireless. A. Gonella. No. 933,550; Sept. 7; Sp. p. 1212; Gaz. vol. 146; p. 177.  
 Cooker, Fruit-. F. C. Roberts. No. 932,905; Aug. 31; Sp. p. 6908; Gaz. vol. 145; p. 1187.  
 Cooker, Fruit-butter. M. M. Chase. No. 926,240; June 29; Sp. p. 6625; Gaz. vol. 143; p. 1168.  
 Cooker, Steam-. S. J. Finch. No. 908,850; Jan. 5; Sp. p. 869; Gaz. vol. 138; p. 137.  
 Cooker, Steam-. N. N. Chase. No. 918,656; Apr. 20; Sp. p. 3510; Gaz. vol. 141; p. 627.  
 Cooker, Steam-. S. E. Williams. No. 921,041; May 11; Sp. p. 1921; Gaz. vol. 142; p. 340.  
 Cooker, Steam-. W. G. Rusby. No. 923,894; June 8; Sp. p. 1777; Gaz. vol. 143; p. 296.  
 Cooker, Steam-. J. A. Kleinfelder. No. 930,389; Aug. 10; Sp. p. 1551; Gaz. vol. 145; p. 280.  
 Cooker, Steam-. F. C. Roberts. No. 931,088; Aug. 17; Sp. p. 3086; Gaz. vol. 145; p. 541.  
 Cooker, Steam-cabinet. A. Oliver. No. 918,898; Apr. 20; Sp. p. 4042; Gaz. vol. 141; p. 709.  
 Cookers, Food-tray for steam-. M. A. Warner. No. 931,533; Aug. 17; Sp. p. 4011; Gaz. vol. 145; p. 691.



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- Cooking. C. B. Trescott. No. 908,907; Jan. 5; Sp. p. 981; Gaz. vol. 138; p. 156.
- Cooking and canning tank. H. L. Cunningham. No. 923,339; June 1; Sp. p. 529; Gaz. vol. 143; p. 76.
- Cooking and heating utensil. C. W. Jackson. No. 924,162; June 8; Sp. p. 2325; Gaz. vol. 143; p. 382.
- Cooking apparatus. O. and A. B. Olston. No. 924,185; June 8; Sp. p. 2378; Gaz. vol. 142; p. 390.
- Cooking apparatus. H. A. Winkerknight. No. 925,672; June 22; Sp. p. 5387; Gaz. vol. 143; p. 944.
- Cooking apparatus. J. Truman. No. 931,814; Aug. 24; Sp. p. 4642; Gaz. vol. 145; p. 804.
- Cooking apparatus. H. A. Winkerknight. No. 936,262; Oct. 5; Sp. p. 1357; Gaz. vol. 147; p. 209.
- Cooking apparatus, Electrical. T. M. Caven. No. 933,622; Sept. 7; Sp. p. 1351; Gaz. vol. 146; p. 201.
- Cooking apparatus, Heat-accumulator for self. E. Blasberg. No. 920,719; May 4; Sp. p. 1287; Gaz. vol. 142; p. 206.
- Cooking-cabinet and heat-conservator. B. F. Carpenter. No. 938,121; Oct. 26; Sp. p. 5274; Gaz. vol. 147; p. 903.
- Cooking device. C. B. Trescott. No. 934,858; Sept. 21; Sp. p. 3786; Gaz. vol. 146; p. 657.
- Cooking or heating utensil. E. W. Hamburger. No. 914,828; Mar. 9; Sp. p. 2470; Gaz. vol. 140; p. 413.
- Cooking shelled peanuts, &c., Machine for. C. O. Roe. No. 940,557; Nov. 16; Sp. p. 4696; Gaz. vol. 148; p. 782.
- Cooking utensil. D. A. Schaefer. No. 910,318; Jan. 19; Sp. p. 3859; Gaz. vol. 138; p. 695.
- Cooking-utensil. R. M. Austin. No. 913,450; Feb. 23; Sp. p. 5001; Gaz. vol. 139; p. 894.
- Cooking utensil. T. P. Aitkin. No. 914,216; Mar. 2; Sp. p. 1196; Gaz. vol. 140; p. 187.
- Cooking utensil. N. Baldwin. No. 915,653; Mar. 16; Sp. p. 4123; Gaz. vol. 140; p. 713.
- Cooking utensil. A. E. Conner. No. 917,413; Apr. 6; Sp. p. 915; Gaz. vol. 141; p. 159.
- Cooking utensil. W. C. Brown. No. 921,077; May 11; Sp. p. 2013; Gaz. vol. 142; p. 354.
- Cooking utensil. E. C. Rose. No. 923,445; June 1; Sp. p. 752; Gaz. vol. 143; p. 111.
- Cooking utensil. E. W. Kent. No. 924,471; June 8; Sp. p. 2958; Gaz. vol. 143; p. 484.
- Cooking utensil. I. Bauer. No. 926,163; June 29; Sp. p. 6442; Gaz. vol. 143; p. 1142.
- Cooking utensil. M. Geig. No. 927,521; July 13; Sp. p. 1688; Gaz. vol. 144; p. 301.
- Cooking utensil. C. M. Hill and E. P. Zahnter. No. 928,383; July 20; Sp. p. 3513; Gaz. vol. 144; p. 620.
- Cooking utensil. G. C. Port. No. 930,223; Aug. 3; Sp. p. 1232; Gaz. vol. 145; p. 203.
- Cooking utensil. I. E. and R. Q. Lincoln. No. 931,209; Aug. 17; Sp. p. 3354; Gaz. vol. 145; p. 583.
- Cooking utensil. F. A. Musser. No. 936,343; Oct. 12; Sp. p. 1540; Gaz. vol. 147; p. 264.
- Cooking utensil. L. Carr. No. 940,672; Nov. 23; Sp. p. 4988; Gaz. vol. 148; p. 844.
- Cooking utensil. A. Speirs. No. 942,111; Dec. 7; Sp. p. 177; Gaz. vol. 149; p. 27.
- Cooking utensil. E. L. Ankrom. No. 944,998; Dec. 28; Sp. p. 6374; Gaz. vol. 149; p. 1095.
- Cooking-utensil cover. C. J. Colling. No. 909,284; Jan. 12; Sp. p. 1743; Gaz. vol. 138; p. 313.
- Cooking-utensil cover. E. R. Chambers. No. 918,282; Apr. 13; Sp. p. 2691; Gaz. vol. 141; p. 476.
- Cooking-utensil cover. W. H. Ostrander. No. 936,025; Oct. 5; Sp. p. 900; Gaz. vol. 147; p. 136.
- Cooking utensil, Steam. C. H. Stage. No. 912,912; Feb. 16; Sp. p. 3903; Gaz. vol. 139; p. 688.
- Cooking utensils, Heat-distributor for. A. B. Cruickshank. No. 928,634; July 20; Sp. p. 4024; Gaz. vol. 144; p. 701.
- Cooking vessel. T. Mower. No. 944,244; Dec. 21; Sp. p. 4728; Gaz. vol. 149; p. 810.
- Cooking-vessel cover. Ventilated. C. S. Phillips. No. 941,041; Nov. 23; Sp. p. 5735; Gaz. vol. 148; p. 968.
- Cooking vessel, Electric. F. Bölling. No. 920,906; May 11; Sp. p. 1665; Gaz. vol. 142; p. 297.
- Cooking-vessel extensible support. J. Wahl. No. 927,300; July 6; Sp. p. 1220; Gaz. vol. 144; p. 200.
- Cooking-vessel lid-holder. J. C. Landkrohn. No. 927,554; July 13; Sp. p. 1741; Gaz. vol. 144; p. 311.
- Cooler. *See* Air-cooler; Beer-cooler; Brine-cooler; Bushing-cooler; Grain-cooler; Liquid-cooler; Milk-cooler; Ore-cooler; Water-cooler.
- Cooler. S. M. King. No. 909,806; Jan. 12; Sp. p. 2763; Gaz. vol. 138; p. 487.
- Cooler. V. J. Metzger. No. 916,749; Mar. 30; Sp. p. 6251; Gaz. vol. 140; p. 1119.
- Cooler. V. F. Barbaro. No. 928,420; July 20; Sp. p. 3579; Gaz. vol. 144; p. 633.
- Cooler and aerator. F. R. Noonan. No. 930,786; Aug. 10; Sp. p. 2389; Gaz. vol. 145; p. 413.
- Cooler and aspirator. J. D. Devoss. No. 911,952; Feb. 9; Sp. p. 1811; Gaz. vol. 139; p. 333.
- Cooling apparatus. H. J. Vasconcelles. No. 911,785; Feb. 9; Sp. p. 1492; Gaz. vol. 139; p. 279.
- Cooling apparatus. J. W. Jackson. No. 911,879; Feb. 9; Sp. p. 1664; Gaz. vol. 139; p. 309.
- Cooling apparatus. A. E. Iveson and A. R. Wilson. No. 916,319; Mar. 23; Sp. p. 5389; Gaz. vol. 140; p. 957.
- Cooling apparatus. K. Nakagawa. No. 928,145; July 13; Sp. p. 2967; Gaz. vol. 144; p. 508.
- Cooling-board. C. E. Windom. No. 944,531; Dec. 28; Sp. p. 5393; Gaz. vol. 149; p. 938.
- Cooling-box. H. J. Kuck. No. 941,077; Nov. 23; Sp. p. 5808; Gaz. vol. 148; p. 980.
- Cooling device for rooms. D. F. Solidity. No. 925,605; June 22; Sp. p. 5245; Gaz. vol. 143; p. 923.
- Cooling or radiating mechanism. G. H. Reynolds. No. 921,627; May 11; Sp. p. 3154; Gaz. vol. 142; p. 539.
- Cooling structure. P. G. Toepler. No. 908,905; Jan. 5; Sp. p. 978; Gaz. vol. 138; p. 156.
- Cooling system. L. L. Bogue. No. 938,814; Nov. 2; Sp. p. 783; Gaz. vol. 148; p. 126.
- Cooling-towers and the like, Distributor for. J. F. Grace. No. 937,236; Oct. 19; Sp. p. 3411; Gaz. vol. 147; p. 590.
- Coop. J. P. Mann. No. 944,367; Dec. 28; Sp. p. 5004; Gaz. vol. 149; p. 881.
- Coop and nest, Chicken. H. G. Pantan. No. 936,154; Oct. 5; Sp. p. 1167; Gaz. vol. 147; p. 177.
- Coop, Brood-. D. M. Primm. No. 916,014; Mar. 23; Sp. p. 4837; Gaz. vol. 140; p. 856.
- Coop, Brooding-. P. G. Townsend. No. 931,974; Aug. 24; Sp. p. 4998; Gaz. vol. 145; p. 856.
- Coop, Chicken-. J. C. Davison. No. 915,565; Mar. 16; Sp. p. 3942; Gaz. vol. 140; p. 680.
- Coop, Collapsible chicken-. R. E. Laidley. No. 911,136; Feb. 2; Sp. p. 228; Gaz. vol. 139; p. 41.
- Coop or crate. O. J. La Bauve. No. 909,614; Jan. 12; Sp. p. 2379; Gaz. vol. 138; p. 423.
- Coop or crate. O. J. La Bauve. No. 909,615; Jan. 12; Sp. p. 2382; Gaz. vol. 138; p. 423.
- Coop or crate, Foldable chicken. M. Parsons. No. 944,377; Dec. 28; Sp. p. 5026; Gaz. vol. 149; p. 884.
- Coop or crate, Folding. J. P. Mahoney. No. 922,606; May 25; Sp. p. 5170; Gaz. vol. 142; p. 915.
- Coop or crate, Folding. A. Farmer. No. 930,170; Aug. 3; Sp. p. 1155; Gaz. vol. 145; p. 189.
- Coop or crate, Folding. J. P. Carnifax. No. 934,282; Sept. 14; Sp. p. 2654; Gaz. vol. 146; p. 441.
- Coop or crate, Folding. F. T. Wing. No. 935,443; Sept. 28; Sp. p. 4958; Gaz. vol. 146; p. 876.
- Coop, Poultry-. H. W. Burgett. No. 913,101; Feb. 23; Sp. p. 4280; Gaz. vol. 139; p. 776.
- Coop, Poultry-. B. J. Grasberger and J. E. Thomasson. No. 928,961; July 27; Sp. p. 4670; Gaz. vol. 144; p. 838.
- Coop, Poultry-. C. I. Bumpass. No. 939,798; Nov. 9; Sp. p. 2985; Gaz. vol. 148; p. 491.
- Coop, Poultry-. A. M. Benzing. No. 941,300; Nov. 23; Sp. p. 6301; Gaz. vol. 148; p. 1054.
- Coop, Poultry-. J. A. Emert. No. 941,507; Nov. 30; Sp. p. 6756; Gaz. vol. 148; p. 1144.
- Copper-converter. F. E. Marcy. No. 919,199; Apr. 20; Sp. p. 4615; Gaz. vol. 141; p. 806.
- Copper from a solution of a salt of copper, Obtaining pure metallic. L. Jumau. No. 924,077; June 8; Sp. p. 2116; Gaz. vol. 143; p. 353.
- Copper from a solution of a salt of copper, Obtaining pure metallic. L. Jumau. No. 930,967; Aug. 10; Sp. p. 2781; Gaz. vol. 145; p. 472.
- Copper from a solution of a salt of copper, Obtaining pure metallic. L. Jumau. No. 930,968; Aug. 10; Sp. p. 2782; Gaz. vol. 145; p. 472.
- Copper from cuprous residues, Recovery of. D. Crispo. No. 935,762; Oct. 12; Sp. p. 2437; Gaz. vol. 147; p. 405.
- Copper from ores, Extracting. C. G. Collins. No. 919,130; Apr. 20; Sp. p. 4485; Gaz. vol. 141; p. 783.
- Copper from raw unroasted ores and other products, Extraction of. G. Schneider. No. 937,965; Oct. 26; Sp. p. 4927; Gaz. vol. 147; p. 850.
- Copper matte, Bessemerizing of. E. A. C. Smith. No. 943,280; Dec. 14; Sp. p. 2688; Gaz. vol. 149; p. 454.
- Copper-matte converter. E. A. C. Smith. No. 942,675; Dec. 7; Sp. p. 1330; Gaz. vol. 149; p. 219.
- Copper matte, Method of and converter vessel for bessemerizing. W. H. Peirce and E. A. C. Smith. No. 942,346; Dec. 7; Sp. p. 669; Gaz. vol. 149; p. 107.
- Copper, nickel, and other metals from copper-nickel matte, Separating. H. L. Wells. No. 940,292; Nov. 16; Sp. p. 4083; Gaz. vol. 148; p. 693.
- Copper, Obtaining pure. L. Jumau. No. 924,076; June 8; Sp. p. 2115; Gaz. vol. 143; p. 353.
- Copper or copper-nickel mattes, Treatment of. J. T. Carrick. No. 939,947; Nov. 9; Sp. p. 3291; Gaz. vol. 148; p. 543.
- Copper ores, Leaching. G. C. Schneider. No. 932,643; Aug. 31; Sp. p. 6390; Gaz. vol. 145; p. 1103.
- Copper-refining apparatus. F. L. Antisell. (Reissue.) No. 13,020; Sept. 14; Sp. p. 2932; Gaz. vol. 146; p. 490.
- Copy-holder. C. F. Stehlin. No. 910,968; Jan. 26; Sp. p. 5162; Gaz. vol. 138; p. 931.
- Copy-holder. W. A. Olive. No. 912,405; Feb. 16; Sp. p. 2858; Gaz. vol. 139; p. 518.
- Copy-holder. I. H. P. Colleen. No. 938,978; Nov. 2; Sp. p. 1145; Gaz. vol. 148; p. 183.
- Copy-holder. F. M. Giddings. No. 940,008; Nov. 16; Sp. p. 3423; Gaz. vol. 148; p. 590.
- Copying-machine cutting device. A. Zeiss and F. Rudert. No. 938,199; Oct. 26; Sp. p. 5449; Gaz. vol. 147; p. 931.
- Copying-machines, Winding attachment for. F. Soenneken and E. C. Magnus. No. 921,475; May 11; Sp. p. 2842; Gaz. vol. 142; p. 488.
- Copying-press, Roller. P. H. Yawman. No. 932,665; Aug. 31; Sp. p. 6433; Gaz. vol. 145; p. 1110.
- Copying-press with pressing-levers arranged symmetrically to one another. K. Lenck. No. 916,730; Mar. 30; Sp. p. 6222; Gaz. vol. 140; p. 1114.
- Cord-clamp. F. Walter. No. 935,870; Oct. 5; Sp. p. 590; Gaz. vol. 147; p. 84.
- Cord connector and rack. W. E. Hill. No. 914,045; Mar. 2; Sp. p. 847; Gaz. vol. 140; p. 130.

*Alphabetical list of inventions—Continued.*

- Cord for use in cord fabrics, Compoind. T. Sloper. No. 913,856; Mar. 2; Sp. p. 374; Gaz. vol. 140; p. 63.
- Cord-holder. V. H. Rooks. No. 922,337; May 18; Sp. p. 4592; Gaz. vol. 142; p. 798.
- Cord-holder. C. Planette and H. Jorgenson. No. 923,575; June 1; Sp. p. 1027; Gaz. vol. 143; p. 158.
- Cord or thread, Reinforced coated. E. D. C. Bayne and L. A. Subers. No. 918,414; Apr. 13; Sp. p. 2929; Gaz. vol. 141; p. 518.
- Cord terminal. F. Parsons. No. 941,808; Nov. 30; Sp. p. 7403; Gaz. vol. 148; p. 1244.
- Core. J. Wittliff. No. 915,817; Mar. 23; Sp. p. 4463; Gaz. vol. 140; p. 792.
- Core. E. H. Proffitt. No. 928,538; July 20; Sp. p. 3820; Gaz. vol. 144; p. 670.
- Core-agitator. R. R. Stewart. No. 937,554; Oct. 19; Sp. p. 4099; Gaz. vol. 147; p. 697.
- Core-arbor. I. H. Long and S. A. Milligan. No. 918,564; Apr. 20; Sp. p. 3267; Gaz. vol. 141; p. 595.
- Core compound. E. E. Howe. No. 912,129; Feb. 9; Sp. p. 2260; Gaz. vol. 139; p. 391.
- Core-cutting machine. A. E. Higgins and J. D. Ormrod. No. 944,137; Dec. 21; Sp. p. 4525; Gaz. vol. 149; p. 777.
- Core-drill. M. J. McLoughlin. No. 929,780; Aug. 3; Sp. p. 316; Gaz. vol. 145; p. 53.
- Core for hollow castings. J. K. Dimmick. No. 922,678; May 25; Sp. p. 5311; Gaz. vol. 142; p. 938.
- Core for making cement conductors, Expandible and contractible. M. Engeln. No. 914,032; Mar. 2; Sp. p. 824; Gaz. vol. 140; p. 126.
- Core for molds, Expandible. P. C. Merillat. No. 917,636; Apr. 6; Sp. p. 1311; Gaz. vol. 141; p. 231.
- Core-forming material. J. Wagner and J. Ferencz. No. 921,030; May 11; Sp. p. 1902; Gaz. vol. 142; p. 337.
- Core-making apparatus. J. R. Davies. No. 913,270; Feb. 23; Sp. p. 4635; Gaz. vol. 139; p. 831.
- Core-making machine. F. C. Francisco. No. 927,848; July 13; Sp. p. 2392; Gaz. vol. 144; p. 409.
- Core-oven. J. J. Johnson. No. 935,990; Oct. 5; Sp. p. 831; Gaz. vol. 147; p. 124.
- Core-slicing machine, Cabbage-. A. D. Wagenhauser and H. J. Newland. No. 927,904; July 13; Sp. p. 2513; Gaz. vol. 144; p. 428.
- Core, Winding-. J. H. Gately. No. 911,006; Jan. 26; Sp. p. 5234; Gaz. vol. 138; p. 943.
- Cores, Ventilating means for laminated. A. J. Brown. No. 925,991; June 22; Sp. p. 6069; Gaz. vol. 143; p. 1049.
- Cored openings, Apparatus for forming. W. H. Lose. No. 918,342; Apr. 13; Sp. p. 2801; Gaz. vol. 141; p. 495.
- Corer. F. C. Roberts. No. 917,660; Apr. 6; Sp. p. 1354; Gaz. vol. 141; p. 239.
- Corer, peeler, and slicer, Apple-. W. T. Ross. No. 934,840; Sept. 21; Sp. p. 3748; Gaz. vol. 146; p. 651.
- Coring machine, Cabbage-. C. B. Gedney. No. 928,748; July 20; Sp. p. 4245; Gaz. vol. 144; p. 739.
- Coring machine, Tomato-. W. G. Lumsden. No. 925,116; June 15; Sp. p. 4314; Gaz. vol. 143; p. 735.
- Cork. E. Tugendreich. No. 908,909; Jan. 5; Sp. p. 985; Gaz. vol. 138; p. 157.
- Cork compound and making same. J. J. C. and M. Smith. No. 913,572; Feb. 23; Sp. p. 5277; Gaz. vol. 139; p. 934.
- Cork-cutting machine. B. Lauer. No. 917,084; Apr. 6; Sp. p. 247; Gaz. vol. 141; p. 45.
- Cork-extractor. C. M. King. No. 910,923; Jan. 26; Sp. p. 5081; Gaz. vol. 138; p. 916.
- Cork-extractor. G. B. Argo. No. 926,839; July 6; Sp. p. 277; Gaz. vol. 144; p. 45.
- Cork-feeding attachment, Crown-. E. R. Freyer. No. 944,548; Dec. 28; Sp. p. 5432; Gaz. vol. 149; p. 944.
- Cork, Manufacturing artificial. B. Honowsky. No. 925,104; June 15; Sp. p. 4291; Gaz. vol. 143; p. 731.
- Cork-puller. A. Baumgarten. No. 920,008; Apr. 27; Sp. p. 6508; Gaz. vol. 141; p. 1111.
- Cork-puller and time-indicator, Combined. K. E. Parker. No. 910,845; Jan. 26; Sp. p. 4934; Gaz. vol. 138; p. 891.
- Cork-pulling device. C. C. Call. No. 911,292; Feb. 2; Sp. p. 535; Gaz. vol. 139; p. 91.
- Cork-sheet-cutting apparatus. A. Bogdanffy. No. 920,010; Apr. 27; Sp. p. 6511; Gaz. vol. 141; p. 1111.
- Corks in bottles, Device for locking. W. Schroeder. No. 944,512; Dec. 28; Sp. p. 5348; Gaz. vol. 149; p. 932.
- Corking apparatus, Bottle-. C. Sellenscheidt. No. 925,518; June 22; Sp. p. 5079; Gaz. vol. 143; p. 894.
- Corkscrew. R. De Bersaques. No. 927,127; July 6; Sp. p. 895; Gaz. vol. 144; p. 144.
- Corn-cabinet, Seed-storage. S. Babcock. No. 931,669; Aug. 17; Sp. p. 4289; Gaz. vol. 145; p. 733.
- Corn-comminuting machine. F. S. Ulery. No. 919,499; Apr. 27; Sp. p. 5485; Gaz. vol. 141; p. 942.
- Corn-conveyer, Ear-. W. S. Harrison. No. 920,951; May 11; Sp. p. 1758; Gaz. vol. 142; p. 312.
- Corn cutter and crusher. J. S. Bloom. No. 930,137; Aug. 3; Sp. p. 1089; Gaz. vol. 145; p. 176.
- Corn-cutter knife. A. W. Thomas. No. 917,976; Apr. 13; Sp. p. 2058; Gaz. vol. 141; p. 372.
- Corn-drying rack. G. Wenzelmann. No. 921,932; May 18; Sp. p. 3786; Gaz. vol. 142; p. 666.
- Corn for degermination and milling, Conditioning and tempering. J. B. Watkins. No. 943,722; Dec. 21; Sp. p. 3656; Gaz. vol. 149; p. 635.
- Corn-gatherer. S. J. McNaughton. No. 910,566; Jan. 26; Sp. p. 4381; Gaz. vol. 138; p. 803.
- Corn gatherer and husker. E. C. Dean. No. 909,560; Jan. 12; Sp. p. 2277; Gaz. vol. 138; p. 403.
- Corn-gathering machine. J. Boda. No. 923,806; June 8; Sp. p. 1614; Gaz. vol. 143; p. 267.
- Corn-grader. A. S. Beymer. No. 917,240; Apr. 6; Sp. p. 567; Gaz. vol. 141; p. 99.
- Corn-grader. J. E. Gaston. No. 943,869; Dec. 21; Sp. p. 3943; Gaz. vol. 149; p. 686.
- Corn-hanger. E. F. Swanson. No. 935,562; Sept. 28; Sp. p. 5220; Gaz. vol. 146; p. 916.
- Corn hanger, Ear-. L. W. Hurff. No. 919,173; Apr. 20; Sp. p. 4560; Gaz. vol. 141; p. 797.
- Corn-header. L. J. Jr. and F. R. C. Gehrman. No. 911,302; Feb. 2; Sp. p. 552; Gaz. vol. 139; p. 94.
- Corn header, Kafir-. M. Brown. No. 934,656; Sept. 21; Sp. p. 3393; Gaz. vol. 146; p. 591.
- Corn-heading machine, Kafir-. J. Norris, Jr. No. 923,691; June 1; Sp. p. 1274; Gaz. vol. 143; p. 198.
- Corn holder. Ear-. C. P. Townsend. No. 933,402; Sept. 7; Sp. p. 830; Gaz. vol. 146; p. 129.
- Corn-husker. T. H. Butler and F. M. Wideman. No. 915,934; Mar. 23; Sp. p. 4675; Gaz. vol. 140; p. 830.
- Corn-husker. H. S. Blair. No. 917,527; Apr. 6; Sp. p. 1118; Gaz. vol. 141; p. 195.
- Corn-husker. R. N. Thomas. No. 919,794; Apr. 27; Sp. p. 6054; Gaz. vol. 141; p. 1041.
- Corn-husker. D. H. Tree. No. 943,051; Dec. 14; Sp. p. 2225; Gaz. vol. 149; p. 378.
- Corn-husking apparatus. W. B. Havens. No. 913,130; Feb. 23; Sp. p. 4343; Gaz. vol. 139; p. 786.
- Corn-husking hook. R. N. Thomas. No. 925,529; June 22; Sp. p. 5094; Gaz. vol. 143; p. 897.
- Corn-husking implement. S. B. Dykes. No. 941,505; Nov. 30; Sp. p. 6749; Gaz. vol. 148; p. 1143.
- Corn-husking machine. M. G. Harvey. No. 938,233; Oct. 26; Sp. p. 5517; Gaz. vol. 147; p. 943.
- Corn-husking machine. J. E. Goodhue. No. 944,088; Dec. 21; Sp. p. 4416; Gaz. vol. 149; p. 761.
- Corn-husking machine. A. Rosenthal. No. 945,005; Dec. 28; Sp. p. 6394; Gaz. vol. 149; p. 1097.
- Corn-husking-machine separator attachment. O. Boyer. No. 926,464; June 29; Sp. p. 7037; Gaz. vol. 143; p. 1240.
- Corn-husking rollers. J. A. Stone. No. 919,392; Apr. 27; Sp. p. 5222; Gaz. vol. 141; p. 905.
- Corn, Machine for separating silk from green. H. H. Ulery. No. 927,086; July 6; Sp. p. 820; Gaz. vol. 144; p. 131.
- Corn-planter. A. W. Lewis. No. 910,297; Jan. 19; Sp. p. 3817; Gaz. vol. 138; p. 687.
- Corn-planter, Automatic. F. N. Adams. No. 914,373; Mar. 9; Sp. p. 1541; Gaz. vol. 140; p. 263.
- Corn-popper. D. H. Higgins. No. 937,372; Oct. 19; Sp. p. 3688; Gaz. vol. 147; p. 634.
- Corn-rack. J. S. Winton. No. 942,694; Dec. 7; Sp. p. 1367; Gaz. vol. 149; p. 225.
- Corn rack, Seed-. W. Ulbrich. No. 911,923; Feb. 9; Sp. p. 1749; Gaz. vol. 139; p. 324.
- Corn rack, Seed-. M. L. Henderson. No. 928,195; July 13; Sp. p. 3088; Gaz. vol. 144; p. 526.
- Corn separator, Seed-. C. F. Asplund. No. 909,358; Jan. 12; Sp. p. 1874; Gaz. vol. 138; p. 336.
- Corn-sheller. C. J. Widmer. No. 921,324; May 11; Sp. p. 2527; Gaz. vol. 142; p. 438.
- Corn-sheller. G. Wandscheer. No. 929,735; Aug. 3; Sp. p. 206; Gaz. vol. 145; p. 36.
- Corn-sheller. L. J. McMillin. No. 932,889; Aug. 31; Sp. p. 6887; Gaz. vol. 145; p. 1183.
- Corn-sheller. E. E. West. No. 937,668; Oct. 19; Sp. p. 4301; Gaz. vol. 147; p. 733.
- Corn-sheller. W. J. Moore. No. 941,798; Nov. 30; Sp. p. 7363; Gaz. vol. 148; p. 1241.
- Corn-shocker. I. T. Leager. No. 938,595; Nov. 2; Sp. p. 350; Gaz. vol. 148; p. 52.
- Corn-shocking horse. W. H. Rice. No. 943,462; Dec. 14; Sp. p. 3068; Gaz. vol. 149; p. 516.
- Corn-slicing machine. L. H. Kellam. No. 916,168; Mar. 23; Sp. p. 5120; Gaz. vol. 140; p. 906.
- Corn tester, Seed-. C. E. Twamley. (Reissue.) No. 13,031; Oct. 26; Sp. p. 6036; Gaz. vol. 147; p. 1020.
- Corn-thinner. C. B. Rhoades. No. 914,307; Mar. 2; Sp. p. 1385; Gaz. vol. 140; p. 215.
- Corn thinner and weeder, Hand. G. M. Hanger. No. 933,753; Sept. 14; Sp. p. 1627; Gaz. vol. 146; p. 268.
- Corn-topper. S. E. Woods. No. 919,106; Apr. 20; Sp. p. 4435; Gaz. vol. 141; p. 775.
- Corner-bead. M. A. Hannon. No. 923,430; June 1; Sp. p. 718; Gaz. vol. 143; p. 105.
- Corner beads or strips, Clip or anchor for. A. P. Diescher. No. 943,590; Dec. 14; Sp. p. 3319; Gaz. vol. 149; p. 560.
- Corner-iron. A. L. Sessions. No. 910,324; Jan. 19; Sp. p. 3872; Gaz. vol. 138; p. 697.
- Corner-piece. A. J. Schoenecker. No. 925,601; June 22; Sp. p. 5240; Gaz. vol. 143; p. 922.
- Corner-pieces, Machine for cutting and trimming the edges of. C. J. Lysaght. No. 939,144; Nov. 2; Sp. p. 1474; Gaz. vol. 148; p. 240.
- Corner-pieces, Machine or apparatus for creasing the edges of. C. J. Lysaght. No. 939,145; Nov. 2; Sp. p. 1482; Gaz. vol. 148; p. 241.
- Corner-protector. C. T. Moore. No. 919,057; Apr. 20; Sp. p. 4355; Gaz. vol. 141; p. 760.
- Corner-shield. J. H. Jennison. No. 922,146; May 18; Sp. p. 4217; Gaz. vol. 142; p. 737.
- Corn-staying machine. W. F. Morse. No. 937,840; Oct. 26; Sp. p. 4669; Gaz. vol. 147; p. 809.
- Cornet. S. Adkins. No. 911,637; Feb. 9; Sp. p. 1218; Gaz. vol. 139; p. 230.
- Cornet. Z. A. Meredith. No. 939,285; Nov. 9; Sp. p. 1817; Gaz. vol. 148; p. 314.



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- Cornet bell-mute. C. G. Conn. No. 911,940; Feb. 9; Sp. p. 1789; Gaz. vol. 139; p. 329.  
 Cornet-valve. C. G. Conn. No. 923,812; June 8; Sp. p. 1624; Gaz. vol. 143; p. 269.  
 Cornice-brake. G. C. Keene. No. 941,783; Nov. 30; Sp. p. 7337; Gaz. vol. 148; p. 1236.  
 Cornice-mold, Plasterer's miter. W. D. Eitel. No. 915,575; Mar. 16; Sp. p. 3957; Gaz. vol. 140; p. 683.  
 Corrugating-machine. E. R. Stasch. No. 929,722; Aug. 3; Sp. p. 177; Gaz. vol. 145; p. 31.  
 Corset. V. E. Mack. No. 908,789; Jan. 5; Sp. p. 748; Gaz. vol. 138; p. 113.  
 Corset. C. H. Schoppach. No. 912,624; Feb. 16; Sp. p. 3319; Gaz. vol. 139; p. 594.  
 Corset. F. O. Ginnever. No. 913,883; Mar. 2; Sp. p. 454; Gaz. vol. 140; p. 74.  
 Corset. R. B. Scognamiglio. No. 913,921; Mar. 2; Sp. p. 543; Gaz. vol. 140; p. 87.  
 Corset. J. Lindauer. No. 923,361; June 1; Sp. p. 580; Gaz. vol. 143; p. 83.  
 Corset. S. Wood. No. 929,179; July 27; Sp. p. 5124; Gaz. vol. 144; p. 911.  
 Corset. G. Pfeil. No. 929,704; Aug. 3; Sp. p. 133; Gaz. vol. 145; p. 24.  
 Corset. C. E. Woodworth. No. 930,015; Aug. 3; Sp. p. 830; Gaz. vol. 145; p. 133.  
 Corset. S. E. Covington. No. 932,681; Aug. 31; Sp. p. 6473; Gaz. vol. 145; p. 1115.  
 Corset. I. Yanowsky. No. 933,610; Sept. 7; Sp. p. 1332; Gaz. vol. 146; p. 197.  
 Corset. G. H. Colley. No. 934,044; Sept. 14; Sp. p. 2178; Gaz. vol. 146; p. 361.  
 Corset. L. Dziedzic. No. 936,099; Oct. 5; Sp. p. 1050; Gaz. vol. 147; p. 160.  
 Corset. K. V. Toietti. No. 938,353; Oct. 26; Sp. p. 5791; Gaz. vol. 147; p. 983.  
 Corset. A. M. C. and M. M. J. Serruys. No. 939,868; Nov. 9; Sp. p. 3115; Gaz. vol. 148; p. 514.  
 Corset. J. A. Daley. No. 939,893; Nov. 9; Sp. p. 3178; Gaz. vol. 148; p. 523.  
 Corset. C. MacMahon. No. 942,786; Dec. 7; Sp. p. 1556; Gaz. vol. 149; p. 256.  
 Corset, Apparel-. D. Kops. No. 913,404; Feb. 23; Sp. p. 4899; Gaz. vol. 139; p. 878.  
 Corset, Apparel-. D. Kops. No. 914,732; Mar. 9; Sp. p. 2277; Gaz. vol. 140; p. 381.  
 Corset, Apparel-. D. Kops. No. 919,028; Apr. 20; Sp. p. 4299; Gaz. vol. 141; p. 751.  
 Corset, Apparel-. S. Kops. No. 919,889; Apr. 27; Sp. p. 6283; Gaz. vol. 141; p. 1072.  
 Corset, Apparel-. S. Kops. No. 919,890; Apr. 27; Sp. p. 6285; Gaz. vol. 141; p. 1073.  
 Corset, Apparel-. D. Kops. No. 928,669; July 20; Sp. p. 4096; Gaz. vol. 144; p. 713.  
 Corset attachment. E. C. Dailey. No. 917,852; Apr. 13; Sp. p. 1786; Gaz. vol. 141; p. 328.  
 Corset-clamp. S. E. Florsheim. No. 938,567; Nov. 2; Sp. p. 289; Gaz. vol. 148; p. 42.  
 Corset-clasp. M. Wallstein. No. 931,820; Aug. 24; Sp. p. 4655; Gaz. vol. 145; p. 806.  
 Corset-clasp fastener. C. F. Plummer. No. 909,019; Jan. 5; Sp. p. 1205; Gaz. vol. 138; p. 193.  
 Corset, Form-reducing. S. Florsheim. No. 910,367; Jan. 19; Sp. p. 3952; Gaz. vol. 138; p. 711.  
 Corset-lacing device. M. B. Gardner. No. 914,406; Mar. 9; Sp. p. 1607; Gaz. vol. 140; p. 274.  
 Corset, Maternity-. H. S. Anderson. No. 912,769; Feb. 16; Sp. p. 3654; Gaz. vol. 139; p. 644.  
 Corset-protector and hose-supporter, Combined. J. Linhardt. No. 916,733; Mar. 30; Sp. p. 6226; Gaz. vol. 140; p. 1114.  
 Corset-stay stiffener. H. M. McCormick. No. 930,217; Aug. 3; Sp. p. 1223; Gaz. vol. 145; p. 201.  
 Corsets, Hip-reducing attachment for. J. M. Bodensiek. No. 934,272; Sept. 14; Sp. p. 2638; Gaz. vol. 146; p. 438.  
 Corsets, Means for pinning down waists to. S. Kops. No. 910,291; Jan. 19; Sp. p. 3894; Gaz. vol. 138; p. 685.  
 Corsets, Means for pinning down waists to. S. Kops. No. 914,733; Mar. 9; Sp. p. 2279; Gaz. vol. 140; p. 382.  
 Cot and hammock, Combined. H. Menten. No. 928,317; July 20; Sp. p. 3400; Gaz. vol. 144; p. 598.  
 Cot and tent, Combined portable folding. J. A. Walker. No. 925,059; June 15; Sp. p. 4202; Gaz. vol. 143; p. 715.  
 Cot, Child's. M. S. Binney. No. 914,104; Mar. 2; Sp. p. 965; Gaz. vol. 140; p. 151.  
 Cot, Collapsible. C. B. Lamb. No. 909,620; Jan. 12; Sp. p. 2396; Gaz. vol. 138; p. 425.  
 Cot or bedstead. G. Holden. No. 919,865; Apr. 27; Sp. p. 6240; Gaz. vol. 141; p. 1064.  
 Cottage construction, Collapsible-. T. Cosgrove. No. 835,744; Oct. 5; Sp. p. 258; Gaz. vol. 147; p. 41.  
 Cottage, Outing-. W. W. Keen. No. 919,361; Apr. 27; Sp. p. 5152; Gaz. vol. 141; p. 893.  
 Cotton and wool mixed goods, Production of effects on. P. G. Jones. No. 911,593; Feb. 9; Sp. p. 1110; Gaz. vol. 139; p. 216.  
 Cotton-boll gatherer. J. F. Appleby. No. 908,637; Jan. 5; Sp. p. 435; Gaz. vol. 138; p. 70.  
 Cotton-chopper. P. Harrison. No. 909,294; Jan. 12; Sp. p. 1758; Gaz. vol. 138; p. 316.  
 Cotton-chopper. J. A. Fuller. No. 911,487; Feb. 2; Sp. p. 870; Gaz. vol. 139; p. 154.  
 Cotton-chopper. E. May. No. 911,739; Feb. 9; Sp. p. 1418; Gaz. vol. 139; p. 264.  
 Cotton-chopper. T. H. Ellis. No. 913,115; Feb. 23; Sp. p. 4316; Gaz. vol. 139; p. 781.  
 Cotton-chopper. J. W. Garrett. No. 913,373; Feb. 23; Sp. p. 4845; Gaz. vol. 139; p. 867.  
 Cotton-chopper. D. H. Callahan. No. 913,468; Feb. 23; Sp. p. 5033; Gaz. vol. 139; p. 899.  
 Cotton-chopper. S. T. Hogan and F. Knetsch, Jr. No. 913,659; Feb. 23; Sp. p. 5468; Gaz. vol. 139; p. 962.  
 Cotton-chopper. R. R. Hyland. No. 913,729; Mar. 2; Sp. p. 106; Gaz. vol. 140; p. 19.  
 Cotton-chopper. L. and J. P. Dewald. No. 913,878; Mar. 2; Sp. p. 442; Gaz. vol. 140; p. 72.  
 Cotton-chopper. C. Winkler and K. H. Thoene. No. 915,009; Mar. 9; Sp. p. 2778; Gaz. vol. 140; p. 470.  
 Cotton-chopper. S. Farman. No. 915,167; Mar. 16; Sp. p. 3134; Gaz. vol. 140; p. 550.  
 Cotton-chopper. J. D. Maddox. No. 915,456; Mar. 16; Sp. p. 3708; Gaz. vol. 140; p. 644.  
 Cotton-chopper. F. Abrams. No. 916,960; Apr. 6; Sp. p. 1; Gaz. vol. 141; p. 3.  
 Cotton-chopper. H. M. Vinson. No. 918,800; Apr. 20; Sp. p. 3808; Gaz. vol. 141; p. 676.  
 Cotton-chopper. L. Dewald. No. 920,929; May 11; Sp. p. 1712; Gaz. vol. 142; p. 304.  
 Cotton-chopper. W. A. Rush. No. 921,167; May 11; Sp. p. 2183; Gaz. vol. 142; p. 384.  
 Cotton-chopper. T. J. Smith. No. 924,286; June 8; Sp. p. 2600; Gaz. vol. 143; p. 424.  
 Cotton-chopper. T. J. Smith. No. 924,287; June 8; Sp. p. 2604; Gaz. vol. 143; p. 424.  
 Cotton-chopper. W. Shy, N. T. Speer, and J. R. Shy. No. 924,845; June 15; Sp. p. 3760; Gaz. vol. 143; p. 644.  
 Cotton-chopper. H. H. Hood. No. 925,475; June 22; Sp. p. 4989; Gaz. vol. 143; p. 880.  
 Cotton-chopper. A. D. Beil. No. 925,743; June 22; Sp. p. 5548; Gaz. vol. 143; p. 967.  
 Cotton-chopper. E. C. Gesche. No. 925,768; June 22; Sp. p. 5624; Gaz. vol. 143; p. 976.  
 Cotton-chopper. W. S. and J. J. Pace. No. 926,594; June 29; Sp. p. 7277; Gaz. vol. 143; p. 1284.  
 Cotton-chopper. C. E. Delano. No. 927,128; July 6; Sp. p. 897; Gaz. vol. 144; p. 144.  
 Cotton-chopper. H. B. Deken. No. 928,112; July 13; Sp. p. 2907; Gaz. vol. 144; p. 496.  
 Cotton-chopper. G. D. Bragan. No. 928,932; July 27; Sp. p. 4618; Gaz. vol. 144; p. 828.  
 Cotton-chopper. P. Joiner. No. 930,184; Aug. 3; Sp. p. 1180; Gaz. vol. 145; p. 192.  
 Cotton-chopper. T. J. King. No. 936,136; Oct. 5; Sp. p. 1131; Gaz. vol. 147; p. 172.  
 Cotton-chopper. A. D. Baker. No. 936,693; Oct. 12; Sp. p. 2307; Gaz. vol. 147; p. 482.  
 Cotton-chopper. N. Mabry. No. 937,160; Oct. 19; Sp. p. 3247; Gaz. vol. 147; p. 567.  
 Cotton-chopper. J. D. Armstead and S. Kelley. No. 938,626; Nov. 2; Sp. p. 410; Gaz. vol. 148; p. 62.  
 Cotton-chopper. I. F. Harris. No. 939,253; Nov. 9; Sp. p. 1740; Gaz. vol. 148; p. 303.  
 Cotton-chopper. S. L. Martin. No. 939,429; Nov. 9; Sp. p. 2192; Gaz. vol. 148; p. 364.  
 Cotton-chopper. N. Robinet. No. 940,279; Nov. 16; Sp. p. 4063; Gaz. vol. 148; p. 689.  
 Cotton-chopper. J. B. Thompson. No. 940,906; Nov. 23; Sp. p. 5442; Gaz. vol. 148; p. 922.  
 Cotton-chopper. G. W. Rice. No. 941,098; Nov. 23; Sp. p. 5850; Gaz. vol. 148; p. 987.  
 Cotton-chopper. W. A. Crow. No. 941,230; Nov. 23; Sp. p. 6151; Gaz. vol. 148; p. 1032.  
 Cotton-chopper. N. T. Speer. No. 942,294; Dec. 7; Sp. p. 567; Gaz. vol. 149; p. 90.  
 Cotton-chopper. W. B. Alexander. No. 942,371; Dec. 7; Sp. p. 713; Gaz. vol. 149; p. 116.  
 Cotton chopper and cultivator. A. M. and J. W. Thompson. No. 914,617; Mar. 9; Sp. p. 2024; Gaz. vol. 140; p. 344.  
 Cotton chopper and cultivator, Combined. G. A. Krueger. No. 917,080; Apr. 6; Sp. p. 239; Gaz. vol. 141; p. 44.  
 Cotton-chopper and row-cleaner, Combined. W. R. Pruitt. No. 921,886; May 18; Sp. p. 3694; Gaz. vol. 142; p. 651.  
 Cotton-chopper cultivator attachment. T. J. Smith. No. 924,288; June 8; Sp. p. 2605; Gaz. vol. 143; p. 424.  
 Cotton-choppers, Caster-wheel for. J. W. Garrett. No. 935,598; Sept. 28; Sp. p. 5289; Gaz. vol. 146; p. 928.  
 Cotton-chopping machine. E. A. McReynolds. No. 912,875; Feb. 16; Sp. p. 3836; Gaz. vol. 139; p. 676.  
 Cotton-cleaner. A. L. Treese. No. 909,714; Jan. 12; Sp. p. 2591; Gaz. vol. 138; p. 458.  
 Cotton-cleaner. S. Williams. No. 917,693; Apr. 6; Sp. p. 1418; Gaz. vol. 141; p. 250.  
 Cotton-compress. C. J. Luce. No. 923,190; June 1; Sp. p. 146; Gaz. vol. 143; p. 24.  
 Cotton-compress machinery. H. Jones and J. T. Vincent. No. 908,676; Jan. 5; Sp. p. 529; Gaz. vol. 138; p. 81.  
 Cotton-compressor. B. C. Gallaread. No. 942,443; Dec. 7; Sp. p. 856; Gaz. vol. 149; p. 140.  
 Cotton crusher and separator, Snap. W. R. Lamb. No. 917,318; Apr. 6; Sp. p. 743; Gaz. vol. 141; p. 126.  
 Cotton-folder. F. Phelps. No. 931,474; Aug. 17; Sp. p. 3904; Gaz. vol. 145; p. 674.  
 Cotton gathering and gleaning machine. O. C. Houghton. No. 938,864; Nov. 2; Sp. p. 885; Gaz. vol. 148; p. 142.  
 Cotton-gin. C. C. Epps. No. 910,653; Jan. 26; Sp. p. 4568; Gaz. vol. 138; p. 831.

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- Cotton-gin. R. B. Lumpkin. No. 910,700; Jan. 26; Sp. p. 4644; Gaz. vol. 138; p. 844.  
 Cotton-gin. C. Tuckfield. No. 912,210; Feb. 9; Sp. p. 2402; Gaz. vol. 139; p. 414.  
 Cotton-gin. F. T. Kent. No. 923,533; June 1; Sp. p. 931; Gaz. vol. 143; p. 144.  
 Cotton-gin. F. T. Kent. No. 924,793; June 15; Sp. p. 3656; Gaz. vol. 143; p. 626.  
 Cotton-gin. A. H. Sory. No. 929,335; July 27; Sp. p. 5499; Gaz. vol. 144; p. 964.  
 Cotton-gin. W. M. Rheem. No. 931,801; Aug. 24; Sp. p. 4614; Gaz. vol. 145; p. 800.  
 Cotton-gin. E. L. Peterson. No. 937,856; Oct. 26; Sp. p. 4711; Gaz. vol. 147; p. 815.  
 Cotton-gin. W. D. Doremus. No. 938,224; Oct. 26; Sp. p. 5496; Gaz. vol. 147; p. 940.  
 Cotton-gin attachment. H. L. Story. No. 918,710; Apr. 20; Sp. p. 3649; Gaz. vol. 141; p. 647.  
 Cotton-gin rib. J. T. Fuller. No. 911,034; Feb. 2; Sp. p. 21; Gaz. vol. 139; p. 6.  
 Cotton-grader. L. A. Greene. No. 935,149; Sept. 28; Sp. p. 4380; Gaz. vol. 146; p. 781.  
 Cotton holder, Absorbent. W. J. Durant. No. 933,537; Sept. 7; Sp. p. 1188; Gaz. vol. 146; p. 172.  
 Cotton-lappers, Grate for. A. Armfield. No. 929,533; July 27; Sp. p. 5841; Gaz. vol. 144; p. 1026.  
 Cotton, &c., Machine for compressing. W. M. Holmes. No. 931,762; Aug. 24; Sp. p. 4529; Gaz. vol. 145; p. 788.  
 Cotton-picker. C. C. Wilson. No. 915,816; Mar. 23; Sp. p. 4462; Gaz. vol. 140; p. 792.  
 Cotton-picker. J. E. Pierce. No. 918,902; Apr. 20; Sp. p. 4054; Gaz. vol. 141; p. 711.  
 Cotton-picker. S. J. Gray. No. 919,160; Apr. 20; Sp. p. 4536; Gaz. vol. 141; p. 793.  
 Cotton-picker. R. S. Wheeler. No. 922,647; May 25; Sp. p. 5253; Gaz. vol. 142; p. 928.  
 Cotton-picker. L. I. Hamilton. No. 923,649; June 1; Sp. p. 1197; Gaz. vol. 143; p. 184.  
 Cotton-picker. M. B. Coe. No. 927,118; July 6; Sp. p. 881; Gaz. vol. 144; p. 141.  
 Cotton-picker. D. M. Bailey. No. 935,185; Sept. 28; Sp. p. 4446; Gaz. vol. 146; p. 792.  
 Cotton-picker. W. A. Phipps. No. 940,274; Nov. 16; Sp. p. 4043; Gaz. vol. 148; p. 687.  
 Cotton-picker. W. W. Bays. No. 941,055; Nov. 23; Sp. p. 5761; Gaz. vol. 148; p. 972.  
 Cotton-picker. G. Sichel. No. 944,156; Dec. 21; Sp. p. 4561; Gaz. vol. 149; p. 783.  
 Cotton picker and cleaner, Lint. J. L. Hart. No. 927,350; July 6; Sp. p. 1303; Gaz. vol. 144; p. 215.  
 Cotton-picker, Hand. H. E. Fourcher. No. 923,638; June 1; Sp. p. 1171; Gaz. vol. 143; p. 180.  
 Cotton-picker suction-head, Vacuum. J. S. Thurman. No. 918,795; Apr. 20; Sp. p. 3798; Gaz. vol. 141; p. 674.  
 Cotton-pickers, Suction-head for vacuum. J. S. Thurman. No. 932,068; Aug. 24; Sp. p. 5205; Gaz. vol. 145; p. 888.  
 Cotton-picking apparatus. T. J. Gessman. No. 919,847; Apr. 27; Sp. p. 6203; Gaz. vol. 141; p. 1059.  
 Cotton-picking finger. J. F. Appleby. No. 908,638; Jan. 5; Sp. p. 439; Gaz. vol. 138; p. 70.  
 Cotton-picking machine. H. I. McConnell. No. 924,181; June 8; Sp. p. 2369; Gaz. vol. 143; p. 388.  
 Cotton-picking system, Pneumatic. J. S. Thurman. No. 918,794; Apr. 20; Sp. p. 3796; Gaz. vol. 141; p. 674.  
 Cotton-press. R. E. Haynes. No. 919,861; Apr. 27; Sp. p. 6231; Gaz. vol. 141; p. 1063.  
 Cotton-press. B. Thoens. No. 928,563; July 20; Sp. p. 3869; Gaz. vol. 144; p. 677.  
 Cotton-press. A. H. Thomas. No. 932,354; Aug. 24; Sp. p. 5755; Gaz. vol. 145; p. 982.  
 Cotton-press. F. E. Thomas. No. 935,432; Sept. 28; Sp. p. 4935; Gaz. vol. 146; p. 871.  
 Cotton press and feeder, Automatic. F. B. Cumpston. No. 917,754; Apr. 13; Sp. p. 1571; Gaz. vol. 141; p. 296.  
 Cotton-press tamping device. S. S. Ray. No. 912,889; Feb. 16; Sp. p. 3857; Gaz. vol. 139; p. 680.  
 Cotton-presses, Safety-dog trip for. J. C. Wright. No. 937,135; Oct. 19; Sp. p. 3188; Gaz. vol. 147; p. 558.  
 Cotton-seed huller. C. A. Chandler. No. 916,913; Mar. 30; Sp. p. 6573; Gaz. vol. 140; p. 1172.  
 Cotton-seed separator. J. T. Cox. No. 914,800; Mar. 9; Sp. p. 2408; Gaz. vol. 140; p. 404.  
 Cotton-seeds, &c., Apparatus for coating. L. C. Bulkley. No. 908,443; Jan. 5; Sp. p. 18; Gaz. vol. 138; p. 5.  
 Cotton-separator. W. A. Patterson. No. 939,303; Nov. 9; Sp. p. 1888; Gaz. vol. 148; p. 322.  
 Cotton-thinner. J. Floyd. No. 916,431; Mar. 30; Sp. p. 5620; Gaz. vol. 140; p. 1018.  
 Cotton-thinner. J. F. Thomas. No. 916,628; Mar. 30; Sp. p. 6045; Gaz. vol. 140; p. 1084.  
 Cotton-tramper. W. S. Liddell. No. 924,363; June 8; Sp. p. 2762; Gaz. vol. 143; p. 450.  
 Cotton-tramper, Automatic. E. H. Campbell. No. 926,046; June 22; Sp. p. 6179; Gaz. vol. 143; p. 1067.  
 Couch. M. L. Brilliant. No. 929,546; July 27; Sp. p. 5868; Gaz. vol. 144; p. 1031.  
 Couch. A. H. Keller. No. 938,244; Oct. 26; Sp. p. 5539; Gaz. vol. 147; p. 946.  
 Couch and bed, Convertible. L. B. Jefferick. No. 941,878; Nov. 30; Sp. p. 7548; Gaz. vol. 148; p. 1270.  
 Couch and sofa, Combined. T. F. Gullikson. No. 924,659; June 15; Sp. p. 3366; Gaz. vol. 143; p. 580.  
 Couch, Convertible chair. M. Brown. No. 941,186; Nov. 23; Sp. p. 6060; Gaz. vol. 148; p. 1017.  
 Couch, Convertible folding. C. L. Ruehs. No. 921,466; May 11; Sp. p. 2819; Gaz. vol. 142; p. 485.  
 Couch, Electro-vibratory. W. A. Church. No. 941,673; Nov. 30; Sp. p. 7088; Gaz. vol. 148; p. 1198.  
 Couch fabric. C. H. Gall. No. 938,569; Nov. 2; Sp. p. 292; Gaz. vol. 148; p. 43.  
 Couch, Suspension. H. L. Hohlfield. No. 942,259; Dec. 7; Sp. p. 494; Gaz. vol. 149; p. 77.  
 Counter, Article. A. Bretschneider. No. 940,851; Nov. 23; Sp. p. 5339; Gaz. vol. 148; p. 905.  
 Counter-controlling mechanism. W. H. Sheppard. No. 916,042; Mar. 23; Sp. p. 4887; Gaz. vol. 140; p. 865.  
 Counter-measure, Computing. F. I. Goodenow. No. 913,124; Feb. 23; Sp. p. 4333; Gaz. vol. 139; p. 784.  
 Counter-molding machine. W. J. Young. No. 927,204; July 6; Sp. p. 1047; Gaz. vol. 144; p. 169.  
 Counter, Recording. A. P. Phillips. No. 926,763; July 6; Sp. p. 115; Gaz. vol. 144; p. 19.  
 Counter-skiving machine. M. Canty. No. 934,039; Sept. 14; Sp. p. 2171; Gaz. vol. 146; p. 359.  
 Counters, Barrel-swing for store. C. C. Gimbel. No. 943,871; Dec. 21; Sp. p. 3947; Gaz. vol. 149; p. 686.  
 Counting and bottling machine. W. H. Froggatt, Jr. No. 911,556; Feb. 2; Sp. p. 1021; Gaz. vol. 139; p. 176.  
 Counting and receptacle-filling machine. E. E. Kallenbach. No. 937,152; Oct. 19; Sp. p. 3229; Gaz. vol. 147; p. 564.  
 Counting apparatus, Automatic. G. E. Richmond. No. 940,066; Nov. 16; Sp. p. 3590; Gaz. vol. 148; p. 613.  
 Counting device. D. L. Roscoe. No. 909,823; Jan. 12; Sp. p. 2794; Gaz. vol. 138; p. 492.  
 Counting-machine. G. W. Katzung. No. 919,590; Apr. 27; Sp. p. 5662; Gaz. vol. 141; p. 973.  
 Counting-machine. R. Buerk. No. 922,663; May 25; Sp. p. 5285; Gaz. vol. 142; p. 934.  
 Counting-machine. F. Spence. No. 927,610; July 13; Sp. p. 1876; Gaz. vol. 144; p. 331.  
 Counting-machine, Mechanical. F. W. Russell, H. G. Atkinson, and F. E. Baker. No. 932,331; Aug. 24; Sp. p. 5716; Gaz. vol. 145; p. 976.  
 Counting-train. W. S. Sprague and G. Hookham. No. 922,537; May 25; Sp. p. 5030; Gaz. vol. 142; p. 893.  
 Countersink attachment. S. Lindstrand. No. 938,673; Nov. 2; Sp. p. 510; Gaz. vol. 148; p. 78.  
 Counterweight. M. H. Detrick. No. 943,659; Dec. 21; Sp. p. 3532; Gaz. vol. 149; p. 614.  
 Coupling. See Air-brake coupling; Air-brake-pipe coupling; Automatic coupling; Axle-coupling; Belt-coupling; Box-coupling; Car-coupling; Car and hose coupling; Car and train-pipe coupling; Car-pipe-line coupling; Chair-coupling; Conduit-coupling; Detachable coupling; Drill-steel coupling; Electric coupling; Electric-conductor coupling; Electrical-box coupling; Emergency-coupling; Engine-coupling; Fire-hose coupling; Fire-hydrant emergency-coupling; Fish-tape coupling; Flexible-coupling; Float coupling; Friction-coupling; Gas-conduit coupling; Hay-loader coupling; Hose-coupling; Hose and pipe coupling; Hose or pipe coupling; Hose-pipe coupling; Indicator-coupling; Insulating shaft-coupling; Intermittent coupling; Joint-coupling; Lamp union-coupling; Line-coupling; Pipe-coupling; Pipe and hose coupling; Pipe-joint coupling; Pipe or hose coupling; Pipe slip-joint coupling; Piston-rod coupling; Pump-rod coupling; Rail-coupling; Railway-air-brake safety hose-coupling; Rake and loader coupling; Rod-coupling; Rope-coupling; Screw-coupling; Shaft-coupling; Shaft or pulley coupling; Shock-absorbing coupling; Sled-coupling; Slip-coupling; Stovepipe-coupling; Swivel-coupling; Thill-coupling; Tool-coupling; Traction-coupling; Train-pipe coupling; Trolley-wire coupling; Universal coupling; Vehicle-coupling; Wagon-reach coupling; Water-closet coupling; Water-closet floor-coupling; Whiffletree-coupling.  
 Coupling. W. S. Reed. No. 910,416; Jan. 19; Sp. p. 4058; Gaz. vol. 138; p. 727.  
 Coupling. T. W. Christian. No. 911,645; Feb. 9; Sp. p. 1243; Gaz. vol. 139; p. 234.  
 Coupling. E. E. Gold. No. 913,950; Mar. 2; Sp. p. 610; Gaz. vol. 140; p. 97.  
 Coupling. R. Whitaker. No. 916,382; Mar. 23; Sp. p. 5506; Gaz. vol. 140; p. 977.  
 Coupling. E. H. Gold. No. 922,132; May 18; Sp. p. 4184; Gaz. vol. 142; p. 732.  
 Coupling. E. E. Gold. No. 924,161; June 8; Sp. p. 2324; Gaz. vol. 143; p. 381.  
 Coupling. C. Nelson. No. 924,368; June 8; Sp. p. 2771; Gaz. vol. 143; p. 452.  
 Coupling. E. E. Gold. No. 924,608; June 8; Sp. p. 3255; Gaz. vol. 143; p. 531.  
 Coupling. H. S. Kantz. No. 925,483; June 22; Sp. p. 5000; Gaz. vol. 143; p. 883.  
 Coupling. E. G. Johnson and J. Leider. No. 928,055; July 13; Sp. p. 2316; Gaz. vol. 144; p. 479.  
 Coupling. H. A. Dulinsky. No. 930,162; Aug. 3; Sp. p. 1139; Gaz. vol. 145; p. 185.  
 Coupling. J. G. Zimmerman. No. 931,173; Aug. 17; Sp. p. 3270; Gaz. vol. 145; p. 570.  
 Coupling. J. M. Adams. No. 932,744; Aug. 31; Sp. p. 6593; Gaz. vol. 145; p. 1136.  
 Coupling. R. Johnson. No. 932,869; Aug. 31; Sp. p. 6848; Gaz. vol. 145; p. 1175.  
 Coupling. G. Sarrazin and H. Perreault. No. 933,924; Sept. 14; Sp. p. 1961; Gaz. vol. 146; p. 323.  
 Coupling. J. L. Walker. No. 934,028; Sept. 14; Sp. p. 2152; Gaz. vol. 146; p. 356.  
 Coupling. A. H. Harris. No. 935,624; Sept. 28; Sp. p. 5342; Gaz. vol. 146; p. 937.



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- Coupling. G. B. McBean. No. 941,031; Nov. 23; Sp. p. 5716; Gaz. vol. 143; p. 964.  
 Coupling. H. A. Tunis. No. 943,052; Dec. 14; Sp. p. 2228; Gaz. vol. 149; p. 378.  
 Coupling. E. A. Koschinski. No. 944,877; Dec. 28; Sp. p. 6142; Gaz. vol. 149; p. 1056.  
 Coupling carry-iron. B. P. Flory. No. 926,477; June 29; Sp. p. 7060; Gaz. vol. 143; p. 1245.  
 Coupling device. I. R. Crecelius. No. 915,160; Mar. 16; Sp. p. 3125; Gaz. vol. 140; p. 548.  
 Coupling device. O. Rude. No. 919,469; Apr. 27; Sp. p. 5409; Gaz. vol. 141; p. 931.  
 Coupling device. L. Iversen. No. 942,780; Dec. 7; Sp. p. 1546; Gaz. vol. 149; p. 254.  
 Coupling-head. J. S. Sheafe. No. 922,347; May 18; Sp. p. 4606; Gaz. vol. 142; p. 801.  
 Coupling-head, Auxiliary. P. W. Hogan. No. 928,654; July 20; Sp. p. 4064; Gaz. vol. 144; p. 708.  
 Coupling mechanism. W. D. Leftwich. No. 940,334; Nov. 16; Sp. p. 4195; Gaz. vol. 148; p. 707.  
 Coupling or connector. W. E. Benson. No. 912,788; Feb. 16; Sp. p. 3699; Gaz. vol. 139; p. 650.  
 Coupling-pin. L. Huey. No. 926,568; June 29; Sp. p. 7213; Gaz. vol. 143; p. 1275.  
 Coupling-pin lifter. J. M. Arthur and J. P. Birmingham. No. 926,636; June 29; Sp. p. 7352; Gaz. vol. 143; p. 1297.  
 Coupling-ring for corrugated culverts. G. W. Storms. No. 930,103; Aug. 3; Sp. p. 1016; Gaz. vol. 145; p. 164.  
 Couplings, Safety-check for automatic. S. T. Shroyer. No. 922,348; May 18; Sp. p. 4608; Gaz. vol. 142; p. 801.  
 Coupon cutter and counter. E. H. Bartow. No. 928,019; July 13; Sp. p. 2728; Gaz. vol. 144; p. 465.  
 Coupon or tag for cartons. J. A. Kyle. No. 911,884; Feb. 9; Sp. p. 1675; Gaz. vol. 139; p. 310.  
 Course-pointer. A. L. Söderström. No. 944,055; Dec. 21; Sp. p. 4352; Gaz. vol. 149; p. 750.  
 Cover. F. Richardson. No. 914,185; Mar. 2; Sp. p. 1147; Gaz. vol. 140; p. 179.  
 Cover. F. Ohrmundt and J. Kramer. No. 944,376; Dec. 28; Sp. p. 5025; Gaz. vol. 149; p. 884.  
 Cover for caps and the like. M. J. Novoson. No. 929,240; July 27; Sp. p. 5248; Gaz. vol. 144; p. 930.  
 Cover for milk-receptacles. A. L. Cox. No. 928,943; July 27; Sp. p. 4637; Gaz. vol. 144; p. 943.  
 Cover-lock. W. C. Morrill. No. 917,786; Apr. 13; Sp. p. 1658; Gaz. vol. 141; p. 307.  
 Cover, Metallic. O. R. Fowler. No. 922,270; May 18; Sp. p. 4482; Gaz. vol. 142; p. 778.  
 Cover or closing disks, Machine for making. F. L. Nichols. No. 927,002; July 6; Sp. p. 606; Gaz. vol. 144; p. 100.  
 Cover-releasing means. C. G. Miner. No. 930,306; Aug. 3; Sp. p. 1377; Gaz. vol. 145; p. 229.  
 Cover-retainer. J. E. Brown. No. 934,277; Sept. 14; Sp. p. 2644; Gaz. vol. 146; p. 439.  
 Covers to vessels, Means for securing. A. T. Leib. No. 922,166; May 18; Sp. p. 4246; Gaz. vol. 142; p. 742.  
 Covering means. P. Groeber. No. 915,095; Mar. 16; Sp. p. 2971; Gaz. vol. 140; p. 526.  
 Cow-milker. F. M. Devore. No. 913,108; Feb. 23; Sp. p. 4293; Gaz. vol. 139; p. 778.  
 Cow-tail holder. J. Finch. No. 929,202; July 27; Sp. p. 5178; Gaz. vol. 144; p. 918.  
 Cow-tie. P. T. Pederson. No. 921,154; May 11; Sp. p. 2154; Gaz. vol. 142; p. 379.  
 Crab-trap. G. Merle. No. 909,922; Jan. 19; Sp. p. 3012; Gaz. vol. 138; p. 558.  
 Crack-filling device. A. Murrie. No. 926,129; June 29; Sp. p. 6366; Gaz. vol. 143; p. 1130.  
 Cracker-cutting machine. C. G. Tucker. No. 909,967; Jan. 19; Sp. p. 3104; Gaz. vol. 138; p. 574.  
 Cracker-jar. E. F. Reiff. No. 944,279; Dec. 28; Sp. p. 4815; Gaz. vol. 149; p. 849.  
 Cradle. A. R. Clapp. No. 919,320; Apr. 27; Sp. p. 5069; Gaz. vol. 141; p. 880.  
 Cradle. C. L. Finch. No. 929,927; Aug. 3; Sp. p. 649; Gaz. vol. 145; p. 103.  
 Cradle. C. H. Johnson. No. 941,927; Nov. 30; Sp. p. 7642; Gaz. vol. 148; p. 1287.  
 Cradle, Child's. H. Levin. No. 927,559; July 13; Sp. p. 1750; Gaz. vol. 144; p. 313.  
 Cradle crusher. R. K. Donald. No. 909,562; Jan. 12; Sp. p. 2284; Gaz. vol. 138; p. 404.  
 Craft adapted to travel in a resisting medium. C. M. Stanley. No. 939,344; Nov. 9; Sp. p. 1976; Gaz. vol. 148; p. 336.  
 Cramps, &c., Holder for. H. Antoine. No. 944,403; Dec. 28; Sp. p. 5080; Gaz. vol. 149; p. 894.  
 Crane. J. A. Suess. No. 922,208; May 18; Sp. p. 4354; Gaz. vol. 142; p. 757.  
 Crane. C. G. Sprado. No. 923,593; June 1; Sp. p. 1081; Gaz. vol. 143; p. 165.  
 Crane. P. H. Douglas. No. 928,640; July 20; Sp. p. 4039; Gaz. vol. 144; p. 704.  
 Crane, Adjustable counterbalance radius. W. Van Wie. No. 911,093; Feb. 2; Sp. p. 139; Gaz. vol. 139; p. 26.  
 Crane, Electric traveling. E. E. Brosius. No. 923,133; June 1; Sp. p. 14; Gaz. vol. 143; p. 4.  
 Crane, fire-escape, and similar apparatus. I. F. Taylor. No. 919,393; Apr. 27; Sp. p. 5223; Gaz. vol. 141; p. 905.  
 Crane, Floating. A. Bode and K. Böttcher. No. 927,934; July 13; Sp. p. 2576; Gaz. vol. 144; p. 439.  
 Crane, Horn-. A. H. Jones and A. P. Glastre. No. 920,957; May 11; Sp. p. 1766; Gaz. vol. 142; p. 313.  
 Crane, Horn-. J. H. B. Conger. No. 924,635; June 15; Sp. p. 3323; Gaz. vol. 143; p. 572.  
 Crane, Horn-. T. J. Beetham. No. 938,739; Nov. 2; Sp. p. 623; Gaz. vol. 148; p. 99.  
 Crane, Horn-. J. H. B. Conger. No. 944,018; Dec. 21; Sp. p. 4280; Gaz. vol. 149; p. 737.  
 Crane-jibs, &c., which move in a vertical plane, Mechanism for raising. F. Heym and R. Kimmel. No. 913,289; Feb. 23; Sp. p. 4670; Gaz. vol. 139; p. 838.  
 Crane, Ladle or double-trolley electric. C. L. Taylor and E. E. Brosius. No. 920,215; May 4; Sp. p. 251; Gaz. vol. 142; p. 40.  
 Crane mechanism. D. Kendall. No. 909,804; Jan. 12; Sp. p. 2758; Gaz. vol. 138; p. 486.  
 Crane, Overhead traveling. H. Sawyer. No. 944,054; Dec. 21; Sp. p. 4349; Gaz. vol. 149; p. 749.  
 Crane, Power-. S. J. Webb. No. 925,968; June 22; Sp. p. 6028; Gaz. vol. 143; p. 1042.  
 Crane, Radius counterbalance-. W. Van Wie. No. 912,335; Feb. 16; Sp. p. 2713; Gaz. vol. 139; p. 495.  
 Crane, Traveling. W. H. Morgan. No. 913,031; Feb. 23; Sp. p. 4140; Gaz. vol. 139; p. 752.  
 Crane, Traveling. E. E. Brosius. No. 932,439; Aug. 31; Sp. p. 5930; Gaz. vol. 145; p. 1034.  
 Crane with revolving jib sluing a complete circle. A. Bode and R. Büsing. No. 921,198; May 11; Sp. p. 2253; Gaz. vol. 142; p. 397.  
 Crank and yoke connection. F. C. Olin. No. 908,605; Jan. 5; Sp. p. 367; Gaz. vol. 138; p. 59.  
 Crank-handle. A. W. Beaman. No. 944,534; Dec. 28; Sp. p. 5398; Gaz. vol. 149; p. 939.  
 Crank-hanger. D. B. Stephenson. No. 911,174; Feb. 2; Sp. p. 296; Gaz. vol. 139; p. 52.  
 Crank-making. F. W. Parker. No. 929,241; July 27; Sp. p. 5249; Gaz. vol. 144; p. 930.  
 Crank-pin-turning machine. W. E. Anderson. No. 916,646; Mar. 30; Sp. p. 6074; Gaz. vol. 140; p. 1089.  
 Crank, Safety-. C. C. Ilg. No. 939,027; Nov. 2; Sp. p. 1244; Gaz. vol. 148; p. 199.  
 Crank, Safety starting-. H. W. Fellows. No. 921,098; May 11; Sp. p. 2057; Gaz. vol. 142; p. 361.  
 Crank, Variable-throw. G. R. Grout. No. 935,495; Sept. 28; Sp. p. 5051; Gaz. vol. 146; p. 892.  
 Cranking-handle. G. J. Dallison. No. 927,642; July 13; Sp. p. 1952; Gaz. vol. 144; p. 342.  
 Crankless engine or motor. D. H. Reimers. No. 936,036; Oct. 5; Sp. p. 918; Gaz. vol. 147; p. 139.  
 Crate. J. M. Enyart. No. 908,983; Jan. 5; Sp. p. 1146; Gaz. vol. 138; p. 181.  
 Crate. A. G. Felker. No. 910,518; Jan. 26; Sp. p. 4281; Gaz. vol. 138; p. 786.  
 Crate. B. F. Ferguson. No. 910,656; Jan. 26; Sp. p. 4571; Gaz. vol. 138; p. 831.  
 Crate. G. E. Jackson. No. 912,682; Feb. 16; Sp. p. 3438; Gaz. vol. 139; p. 613.  
 Crate. W. F. Brown. No. 917,709; Apr. 6; Sp. p. 1453; Gaz. vol. 141; p. 255.  
 Crate. G. J. Mulzer. No. 922,020; May 18; Sp. p. 3980; Gaz. vol. 142; p. 696.  
 Crate. J. I. McClung. No. 930,216; Aug. 3; Sp. p. 1222; Gaz. vol. 145; p. 201.  
 Crate. H. D. Bokop. No. 933,876; Sept. 14; Sp. p. 1867; Gaz. vol. 146; p. 308.  
 Crate. J. E. Mahoney. No. 933,911; Sept. 14; Sp. p. 1942; Gaz. vol. 146; p. 319.  
 Crate. C. B. Burwell. No. 934,280; Sept. 14; Sp. p. 2651; Gaz. vol. 146; p. 440.  
 Crate. D. F. Payne. No. 936,028; Oct. 5; Sp. p. 904; Gaz. vol. 147; p. 136.  
 Crate. G. E. Richmond. No. 938,705; Nov. 2; Sp. p. 560; Gaz. vol. 148; p. 88.  
 Crate. W. J. Puckett. No. 943,565; Dec. 14; Sp. p. 3278; Gaz. vol. 149; p. 552.  
 Crate. M. O. Davis. No. 944,077; Dec. 21; Sp. p. 4396; Gaz. vol. 149; p. 757.  
 Crate and coop, Folding. C. E. Jennings and O. D. Shuptrine. No. 925,480; June 22; Sp. p. 4997; Gaz. vol. 143; p. 882.  
 Crate and coop, Folding. W. A. Tomison. No. 926,367; June 29; Sp. p. 6865; Gaz. vol. 143; p. 1208.  
 Crate and protector. W. T. Claycomb. No. 936,984; Oct. 12; Sp. p. 2862; Gaz. vol. 147; p. 478.  
 Crate, Banana-. I. Albertelli. No. 912,437; Feb. 16; Sp. p. 2917; Gaz. vol. 139; p. 529.  
 Crate, Banana-. L. D. Fowler. No. 920,311; May 4; Sp. p. 463; Gaz. vol. 142; p. 71.  
 Crate, Bottle-. A. L. Foreman. No. 915,581; Mar. 16; Sp. p. 3970; Gaz. vol. 140; p. 685.  
 Crate, Collapsible. H. A. Forkner and J. B. Milum. No. 908,988; Jan. 5; Sp. p. 1152; Gaz. vol. 138; p. 183.  
 Crate, Collapsible. L. E. Pound. No. 916,012; Mar. 23; Sp. p. 4833; Gaz. vol. 140; p. 855.  
 Crate, Collapsible. J. G. Byron. No. 917,539; Apr. 6; Sp. p. 1137; Gaz. vol. 141; p. 199.  
 Crate, Collapsible. F. M. Crawford. No. 919,828; Apr. 27; Sp. p. 6169; Gaz. vol. 141; p. 1052.  
 Crate, Collapsible. H. W. McComas. No. 931,954; Aug. 24; Sp. p. 4957; Gaz. vol. 145; p. 849.  
 Crate, Collapsible. T. G. Collas. No. 937,422; Oct. 19; Sp. p. 3822; Gaz. vol. 147; p. 651.  
 Crate, Collapsible. W. S. Smith and E. L. Cosgrove. No. 937,880; Oct. 26; Sp. p. 4759; Gaz. vol. 147; p. 822.  
 Crate, Collapsible. E. L. Cosgrove and W. S. Smith. No. 938,041; Oct. 26; Sp. p. 5091; Gaz. vol. 147; p. 876.

*Alphabetical list of inventions—Continued.*

- Crate, Egg-. J. A. Hilliker. No. 915,177; Mar. 16; Sp. p. 3155; Gaz. vol. 140; p. 553.  
 Crate, Egg-. J. A. Hilliker. No. 915,204; Mar. 16; Sp. p. 3385; Gaz. vol. 140; p. 591.  
 Crate, Egg-. E. E. Ward. No. 932,922; Aug. 31; Sp. p. 6939; Gaz. vol. 145; p. 1192.  
 Crate, Foldable shipping-. E. C. Rollins. No. 936,946; Oct. 12; Sp. p. 2786; Gaz. vol. 147; p. 466.  
 Crate, Foldable shipping-. T. F. Umries. No. 940,754; Nov. 23; Sp. p. 5126; Gaz. vol. 148; p. 873.  
 Crate, Folding. L. P. Cox. No. 916,848; Mar. 30; Sp. p. 6442; Gaz. vol. 140; p. 1150.  
 Crate, Folding. L. E. Lane. No. 920,162; May 4; Sp. p. 136; Gaz. vol. 142; p. 21.  
 Crate, Folding. W. N. Luft. No. 920,358; May 4; Sp. p. 546; Gaz. vol. 142; p. 87.  
 Crate, Folding. P. J. Baker. No. 921,789; May 18; Sp. p. 3490; Gaz. vol. 142; p. 620.  
 Crate, Folding. W. Mable. No. 924,082; June 8; Sp. p. 2125; Gaz. vol. 143; p. 354.  
 Crate, Folding. J. Woods. No. 925,408; June 15; Sp. p. 4842; Gaz. vol. 143; p. 828.  
 Crate, Folding. C. E. Evans. No. 925,628; June 22; Sp. p. 5296; Gaz. vol. 143; p. 931.  
 Crate, Folding. C. E. Clark. No. 928,586; July 20; Sp. p. 3921; Gaz. vol. 144; p. 685.  
 Crate, Folding. G. W. M. Smith. No. 929,718; Aug. 3; Sp. p. 164; Gaz. vol. 145; p. 29.  
 Crate, Folding. S. E. Smith. No. 931,808; Aug. 24; Sp. p. 4626; Gaz. vol. 145; p. 802.  
 Crate, Folding. T. W. Erb. No. 933,242; Sept. 7; Sp. p. 487; Gaz. vol. 146; p. 75.  
 Crate, Folding. R. H. Goddard. No. 934,156; Sept. 14; Sp. p. 2428; Gaz. vol. 146; p. 399.  
 Crate, Folding. E. Benson. No. 936,696; Oct. 12; Sp. p. 2311; Gaz. vol. 147; p. 383.  
 Crate, Folding. S. W. Banks, Jr. No. 937,913; Oct. 26; Sp. p. 4824; Gaz. vol. 147; p. 834.  
 Crate, Folding. J. I. Hall. No. 939,250; Nov. 9; Sp. p. 1735; Gaz. vol. 148; p. 301.  
 Crate, Folding. F. C. Edson. No. 939,484; Nov. 9; Sp. p. 2307; Gaz. vol. 148; p. 382.  
 Crate, Folding. F. L. Mary. No. 941,202; Nov. 23; Sp. p. 6094; Gaz. vol. 148; p. 1022.  
 Crate, Folding. W. H. Drake. No. 943,525; Dec. 14; Sp. p. 3202; Gaz. vol. 149; p. 539.  
 Crate, Folding. E. Garven and N. Osborn. No. 944,028; Dec. 21; Sp. p. 4298; Gaz. vol. 149; p. 740.  
 Crate, Folding egg-. A. W. Offiner. No. 929,162; July 27; Sp. p. 5094; Gaz. vol. 144; p. 905.  
 Crate, Folding poultry-. H. D. Dennis, S. J. Evans, and W. Murdock. No. 928,504; July 20; Sp. p. 3744; Gaz. vol. 144; p. 658.  
 Crate, Folding shipping-. J. B. Porter, E. B. Jenkins, and E. Steytler. No. 936,735; Oct. 12; Sp. p. 2383; Gaz. vol. 147; p. 397.  
 Crate-forming machine. J. G. Pinkston. No. 910,310; Jan. 19; Sp. p. 3836; Gaz. vol. 138; p. 691.  
 Crate, Knockdown. C. A. Smith. No. 911,276; Feb. 2; Sp. p. 507; Gaz. vol. 139; p. 87.  
 Crate, Knockdown. J. B. Noyes. No. 928,471; July 20; Sp. p. 3690; Gaz. vol. 144; p. 649.  
 Crate, Knockdown. H. E. Clement. No. 943,388; Dec. 14; Sp. p. 2913; Gaz. vol. 149; p. 490.  
 Crate, Knockdown. E. B. Weston. No. 943,500; Dec. 14; Sp. p. 3144; Gaz. vol. 149; p. 530.  
 Crate, Knockdown. F. V. Neuville. No. 944,146; Dec. 21; Sp. p. 4539; Gaz. vol. 149; p. 779.  
 Crate, Knockdown shipping-. W. Englich. No. 926,931; July 6; Sp. p. 469; Gaz. vol. 144; p. 76.  
 Crate or binder for tin plates. E. Norton. No. 933,105; Sept. 7; Sp. p. 144; Gaz. vol. 146; p. 24.  
 Crate or box. B. K. Boyd. No. 925,799; June 22; Sp. p. 5694; Gaz. vol. 143; p. 986.  
 Crate or box, Collapsible. J. S. Strassel. No. 929,894; Aug. 3; Sp. p. 589; Gaz. vol. 145; p. 92.  
 Crate or box, Knockdown. J. F. Myser. No. 923,367; June 1; Sp. p. 591; Gaz. vol. 143; p. 85.  
 Crate or case, Shipping. J. M. Porter. No. 909,664; Jan. 12; Sp. p. 2482; Gaz. vol. 138; p. 440.  
 Crate, Poultry-. D. Turner. No. 914,323; Mar. 2; Sp. p. 1424; Gaz. vol. 140; p. 220.  
 Crate, Poultry-. D. Turner. No. 923,736; June 1; Sp. p. 1362; Gaz. vol. 143; p. 212.  
 Crate-reinforcing means, Shipping-. C. W. Smith. No. 937,190; Oct. 19; Sp. p. 3310; Gaz. vol. 147; p. 576.  
 Crate, Sheet-metal. E. C. Rose. No. 929,022; July 27; Sp. p. 4802; Gaz. vol. 144; p. 858.  
 Crate, Shipping-. C. Kempf. No. 919,181; Apr. 20; Sp. p. 4582; Gaz. vol. 141; p. 800.  
 Crate, Shipping-. T. A. Redick. No. 925,507; June 22; Sp. p. 5054; Gaz. vol. 143; p. 890.  
 Crate, Shipping-. D. J. Harding. No. 926,941; July 6; Sp. p. 487; Gaz. vol. 144; p. 79.  
 Crate, Shipping-. J. E. Neeb. No. 934,337; Sept. 14; Sp. p. 2763; Gaz. vol. 146; p. 459.  
 Crate, Shipping-. G. W. Sharp. No. 936,259; Oct. 5; Sp. p. 1353; Gaz. vol. 147; p. 208.  
 Crate, Shipping-. H. N. Backus. No. 939,582; Nov. 9; Sp. p. 2510; Gaz. vol. 148; p. 415.  
 Crate-side machine. J. Eklund. No. 920,290; May 4; Sp. p. 429; Gaz. vol. 142; p. 66.  
 Crate, Storage and shipping. G. Klenk. No. 912,273; Feb. 9; Sp. p. 2544; Gaz. vol. 139; p. 436.  
 Crates and other packages, Cushioning device for. J. Steinbuch and L. Kaufmann. No. 916,800; Mar. 30; Sp. p. 6347; Gaz. vol. 140; p. 1134.  
 Crates and the like, Packing appliance for. M. L. R. Edmunds. No. 936,239; Oct. 5; Sp. p. 1315; Gaz. vol. 147; p. 202.  
 Crates, Closure-fastener for bottle-shipping. C. W. Smith. No. 930,993; Aug. 10; Sp. p. 2853; Gaz. vol. 145; p. 481.  
 Crayon, lumber-gage, and tally-pencil. Combined. C. P. Breining. No. 942,771; Dec. 7; Sp. p. 1528; Gaz. vol. 149; p. 251.  
 Cream-bowl cover. M. B. Barron. No. 909,052; Jan. 5; Sp. p. 1266; Gaz. vol. 138; p. 203.  
 Cream breaker and melter. J. Werner. No. 915,139; Mar. 16; Sp. p. 3084; Gaz. vol. 140; p. 541.  
 Cream-dipper. A. C. Butts Jr. No. 936,757; Oct. 12; Sp. p. 2421; Gaz. vol. 147; p. 404.  
 Cream, milk, &c., Apparatus for treating. A. H. Reid. No. 944,634; Dec. 28; Sp. p. 5614; Gaz. vol. 149; p. 974.  
 Cream-ripeners. J. T. Hanna. No. 923,047; May 25; Sp. p. 6074; Gaz. vol. 142; p. 1057.  
 Cream-ripeners. T. L. Valerius. No. 933,934; Sept. 14; Sp. p. 1977; Gaz. vol. 146; p. 326.  
 Cream-ripeners and like machine. J. T. Hanna. No. 910,675; Jan. 26; Sp. p. 4600; Gaz. vol. 138; p. 837.  
 Cream-separating apparatus. J. W. Heathcote. No. 940,686; Nov. 23; Sp. p. 4976; Gaz. vol. 148; p. 849.  
 Cream-separator. W. C. Hartmann. No. 913,006; Feb. 23; Sp. p. 4103; Gaz. vol. 139; p. 744.  
 Cream-separator. C. Nordstrom. No. 915,209; Mar. 16; Sp. p. 3232; Gaz. vol. 140; p. 564.  
 Cream-separator. E. R. Bailey and M. A. Ganiard. No. 916,254; Mar. 23; Sp. p. 5278; Gaz. vol. 140; p. 934.  
 Cream-separator. W. Kolvig. No. 927,360; July 6; Sp. p. 1316; Gaz. vol. 144; p. 218.  
 Cream-separator. H. W. Reynolds. No. 929,250; July 27; Sp. p. 5266; Gaz. vol. 144; p. 933.  
 Cream-separator. E. R. Bailey and M. A. Ganiard. No. 934,706; Sept. 21; Sp. p. 3490; Gaz. vol. 146; p. 607.  
 Cream-separator. G. N. Wolf. No. 935,183; Sept. 28; Sp. p. 4443; Gaz. vol. 146; p. 791.  
 Cream-separator. K. O. A. Carlsson. No. 937,986; Oct. 26; Sp. p. 4975; Gaz. vol. 147; p. 857.  
 Cream-separator bowl, Centrifugal-. T. W. Morgan. No. 910,011; Jan. 19; Sp. p. 3186; Gaz. vol. 138; p. 588.  
 Cream-separator, Centrifugal. P. L. Kimball. No. 920,481; May 4; Sp. p. 778; Gaz. vol. 142; p. 126.  
 Cream-separator, Centrifugal. P. L. Kimball. No. 941,881; Nov. 30; Sp. p. 7553; Gaz. vol. 148; p. 1271.  
 Cream-separator-core cleaner. L. L. Stahl. No. 932,646; Aug. 31; Sp. p. 6398; Gaz. vol. 145; p. 1104.  
 Cream-separator liner, Centrifugal-. C. H. Hackett and T. W. Morgan. No. 914,488; Mar. 9; Sp. p. 1755; Gaz. vol. 140; p. 301.  
 Cream-separators, Cream-exit for centrifugal. C. H. Hackett. No. 914,487; Mar. 9; Sp. p. 1754; Gaz. vol. 140; p. 301.  
 Cream-separators, Drum for centrifugal. J. and A. Persoons. No. 941,809; Nov. 30; Sp. p. 7404; Gaz. vol. 148; p. 1245.  
 Cream-whipper. J. M. Kier. No. 913,398; Feb. 23; Sp. p. 4889; Gaz. vol. 139; p. 876.  
 Creasing-machine. J. F. Cleary. No. 913,361; Feb. 23; Sp. p. 4817; Gaz. vol. 139; p. 863.  
 Credit system. J. O. Greenwald. No. 939,245; Nov. 9; Sp. p. 1726; Gaz. vol. 148; p. 300.  
 Creel. I. E. Palmer. No. 911,904; Feb. 9; Sp. p. 1712; Gaz. vol. 139; p. 317.  
 Creel. S. W. Wardwell. No. 932,522; Aug. 31; Sp. p. 6114; Gaz. vol. 145; p. 1061.  
 Creel and kit, Combined. H. W. Wakefield and C. F. Harter. No. 938,293; Oct. 26; Sp. p. 5632; Gaz. vol. 147; p. 963.  
 Creeper. J. Auer. No. 914,780; Mar. 9; Sp. p. 2369; Gaz. vol. 140; p. 398.  
 Creeper, Anti-rail-. G. S. Zahniser. No. 911,356; Feb. 2; Sp. p. 655; Gaz. vol. 139; p. 111.  
 Cremator and urn, Combined waste-. W. W. Cheney. No. 934,594; Sept. 21; Sp. p. 3257; Gaz. vol. 146; p. 568.  
 Creosote, Obtaining strong aqueous solutions of. D. Lodigiani. No. 915,977; Mar. 23; Sp. p. 4774; Gaz. vol. 140; p. 844.  
 Crib. V. Philia and H. Booker. No. 909,113; Jan. 5; Sp. p. 1408; Gaz. vol. 138; p. 274.  
 Crib. O. F. Seifert. No. 929,792; Aug. 3; Sp. p. 341; Gaz. vol. 145; p. 58.  
 Crib. J. B. Stalter. No. 941,429; Nov. 30; Sp. p. 6599; Gaz. vol. 148; p. 1118.  
 Crib and baby-carriage, Combination. A. Hendricks. No. 942,174; Dec. 7; Sp. p. 322; Gaz. vol. 149; p. 49.  
 Crib attachment. K. Baker. No. 918,259; Apr. 13; Sp. p. 2647; Gaz. vol. 141; p. 469.  
 Crib-cover. E. T. McGowan. No. 921,439; May 11; Sp. p. 2776; Gaz. vol. 142; p. 477.  
 Crib, Folding. C. Ross. No. 914,309; Mar. 2; Sp. p. 1387; Gaz. vol. 140; p. 216.  
 Crib or bed, Folding. E. Gundelach. No. 938,315; Oct. 26; Sp. p. 5694; Gaz. vol. 147; p. 969.  
 Crib structure. J. B. Marshall. No. 926,707; June 29; Sp. p. 7493; Gaz. vol. 143; p. 1320.  
 Crimping-machine. H. E. Dill and W. P. Marsh. No. 942,890; Dec. 14; Sp. p. 1825; Gaz. vol. 149; p. 322.  
 Crimping-machine. A. G. Legg. No. 944,337; Dec. 28; Sp. p. 4933; Gaz. vol. 149; p. 870.  
 Crop-handling machine. J. B. Schuman. No. 913,438; Feb. 23; Sp. p. 4966; Gaz. vol. 139; p. 889.  
 Crop-treating machines, Shock-handling attachment for. J. B. Schuman. No. 916,204; Mar. 23; Sp. p. 5180; Gaz. vol. 140; p. 918.  
 Croquet-arches, Socket-post for supporting. H. B. Collier. No. 931,568; Aug. 17; Sp. p. 4076; Gaz. vol. 145; p. 702.



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 Cross-head. F. O. Ball. No. 924,876; June 15; Sp. p. 3830; Gaz. vol. 143; p. 654.  
 Cross-head. E. P. Dougherty, C. L. Emerson, and W. A. Be Dell. No. 933,634; Sept. 7; Sp. p. 1371; Gaz. vol. 146; p. 205.  
 Cross-head. A. Dubuche. No. 934,147; Sept. 14; Sp. p. 2416; Gaz. vol. 146; p. 396.  
 Cross-head, Safety. K. M. Dahl. No. 927,774; July 13; Sp. p. 2222; Gaz. vol. 144; p. 385.  
 Cross-tie. S. Michaels. No. 914,967; Mar. 9; Sp. p. 2716; Gaz. vol. 140; p. 457.  
 Cross-tie. J. J. Ross. No. 917,489; Apr. 6; Sp. p. 1044; Gaz. vol. 141; p. 182.  
 Cross-tie. J. S. Schaeffer. No. 944,637; Dec. 28; Sp. p. 5620; Gaz. vol. 149; p. 975.  
 Cross-tie and rail-clamp, Metallic. H. S. Kilbourne. No. 931,622; Aug. 17; Sp. p. 4187; Gaz. vol. 145; p. 718.  
 Cross-tie and rail-fastener. C. English. No. 925,999; June 22; Sp. p. 6083; Gaz. vol. 143; p. 1052.  
 Cross-tie and rail-fastener. A. Birochik. No. 941,225; Nov. 23; Sp. p. 6142; Gaz. vol. 148; p. 1030.  
 Cross-tie and rail-fastener, Metal. A. Ruttan, J. Adams, and C. W. and E. Ruttan. No. 933,114; Sept. 7; Sp. p. 160; Gaz. vol. 146; p. 27.  
 Cross-tie and rail-fastener, Metallic. H. D. Phillips. No. 924,931; June 15; Sp. p. 3934; Gaz. vol. 143; p. 672.  
 Cross-tie and rail-fastening, Metallic. W. J. Stoop. No. 924,399; June 8; Sp. p. 2830; Gaz. vol. 143; p. 461.  
 Cross-tie, Insulated metallic. W. J. Stoop. No. 924,400; June 8; Sp. p. 2832; Gaz. vol. 143; p. 462.  
 Cross-tie, Metallic. F. E. Slockett. No. 922,968; May 25; Sp. p. 5923; Gaz. vol. 142; p. 1032.  
 Cross-tie, Metallic. G. A. and A. M. Dickey and C. H. Hoag. No. 923,820; June 8; Sp. p. 1638; Gaz. vol. 143; p. 271.  
 Crossing, Movable-point. W. M. Henderson. No. 924,063; June 8; Sp. p. 2090; Gaz. vol. 143; p. 348.  
 Crossing signal, Electric road-. H. W. Souder. No. 915,238; Mar. 16; Sp. p. 3281; Gaz. vol. 140; p. 573.  
 Crossover, Removable. C. B. Ryan. No. 931,493; Aug. 17; Sp. p. 3940; Gaz. vol. 145; p. 680.  
 Crow-call. C. H. Herdew, Sr. No. 939,080; Nov. 2; Sp. p. 1341; Gaz. vol. 148; p. 218.  
 Crown for winding-stems of watches. H. Axtell. No. 909,515; Jan. 12; Sp. p. 2195; Gaz. vol. 138; p. 389.  
 Crown-matrices, Machine for contouring. F. O. Jaques, Jr. No. 939,261; Nov. 9; Sp. p. 1755; Gaz. vol. 148; p. 205.  
 Crucible. F. W. Shimer. No. 928,552; July 20; Sp. p. 3848; Gaz. vol. 144; p. 674.  
 Crucible-furnace. E. H. Schwartz. No. 911,271; Feb. 2; Sp. p. 495; Gaz. vol. 139; p. 85.  
 Crucible-furnace. W. Scrimgeour. No. 932,501; Aug. 31; Sp. p. 6076; Gaz. vol. 145; p. 1054.  
 Crucible-furnace. W. S. Rockwell. No. 932,906; Aug. 31; Sp. p. 6911; Gaz. vol. 145; p. 1187.  
 Crucible-making machine. H. J. Gerdes. No. 917,581; Apr. 6; Sp. p. 1212; Gaz. vol. 141; p. 212.  
 Crusher: See Clod-crusher; Cotton-crusher; Cradle crusher; Feed-crusher; Ore-crusher; Rock-crusher; Stone-crusher.  
 Crusher. N. De Wind and J. Hughston. No. 909,374; Jan. 12; Sp. p. 1914; Gaz. vol. 138; p. 342.  
 Crusher. M. G. Bunnell. No. 926,725; July 6; Sp. p. 11; Gaz. vol. 144; p. 5.  
 Crusher-balancing means. O. P. Hood. No. 919,582; Apr. 27; Sp. p. 5640; Gaz. vol. 141; p. 970.  
 Crusher-head. R. Bernhard. No. 938,546; Nov. 2; Sp. p. 240; Gaz. vol. 148; p. 35.  
 Crusher-head. R. Bernhard. No. 938,953; Nov. 2; Sp. p. 1101; Gaz. vol. 148; p. 175.  
 Crushing and grinding mill. D. Honeywood. No. 921,248; May 11; Sp. p. 2355; Gaz. vol. 142; p. 413.  
 Crushing and pulverizing mill. C. A. Dorn, J. O. Ludlam, C. F. and L. C. Bonnot. No. 924,439; June 8; Sp. p. 2895; Gaz. vol. 143; p. 474.  
 Crushing-machine. J. E. Blake. No. 944,999; Dec. 28; Sp. p. 3675; Gaz. vol. 149; p. 1095.  
 Crushing-machine, Flexible. H. E. Gregg. No. 941,710; Nov. 30; Sp. p. 7187; Gaz. vol. 148; p. 1211.  
 Crushing-mill. N. A. Helmer. No. 924,062; June 8; Sp. p. 2088; Gaz. vol. 143; p. 348.  
 Crushing-mill for stalks or the like. F. Fuchs. No. 929,124; July 27; Sp. p. 5014; Gaz. vol. 144; p. 892.  
 Crushing or grinding machine. S. Cooper. No. 918,014; Apr. 13; Sp. p. 2147; Gaz. vol. 141; p. 386.  
 Crushing or pulverizing machine. C. A. Doen, J. O. Ludlam, C. F. and L. C. Bonnot. No. 928,368; July 20; Sp. p. 3487; Gaz. vol. 144; p. 615.  
 Crushing-rolls. A. E. Hogue. No. 924,352; June 8; Sp. p. 2739; Gaz. vol. 143; p. 446.  
 Crustacea, Removing the meaty matter from the shells of. A. Yancey. No. 933,609; Sept. 7; Sp. p. 1330; Gaz. vol. 146; p. 197.  
 Crutch. S. T. Glasford. No. 923,352; June 1; Sp. p. 564; Gaz. vol. 143; p. 81.  
 Crutch. C. A. Weaver. No. 929,524; July 27; Sp. p. 5827; Gaz. vol. 144; p. 1024.  
 Crutch, Adjustable. G. S. Rhodes. No. 909,224; Jan. 12; Sp. p. 1628; Gaz. vol. 138; p. 293.  
 Crutch attachment. J. W. Ricks. No. 909,129; Jan. 5; Sp. p. 1438; Gaz. vol. 138; p. 230.  
 Crutch-tip. E. H. Seibert. No. 909,827; Jan. 12; Sp. p. 2799; Gaz. vol. 138; p. 493.  
 Crystallizers, Stirrer for. C. Crozier and W. J. Dyer. No. 936,608; Oct. 12; Sp. p. 2131; Gaz. vol. 147; p. 353.  
 Crystals, Manufacture of large. J. Bock. No. 910,490; Jan. 26; Sp. p. 4224; Gaz. vol. 138; p. 777.  
 Cue. R. J. Preast. No. 941,728; Nov. 30; Sp. p. 7218; Gaz. vol. 148; p. 1217.  
 Cue. W. M. Dall. No. 942,456; Dec. 7; Sp. p. 960; Gaz. vol. 149; p. 155.  
 Cue-chalker, Automatic. W. F. Clayton, Jr. No. 908,956; Jan. 5; Sp. p. 1065; Gaz. vol. 138; p. 172.  
 Cue-clamp. W. H. Patterson. No. 934,691; Sept. 21; Sp. p. 3461; Gaz. vol. 146; p. 603.  
 Cue-tip holder. W. F. Sechrist. No. 929,029; July 27; Sp. p. 4814; Gaz. vol. 144; p. 861.  
 Cue-tip trimmer. P. Ansell. No. 942,876; Dec. 14; Sp. p. 1795; Gaz. vol. 149; p. 317.  
 Cuff. R. Pennington. No. 934,567; Sept. 21; Sp. p. 3206; Gaz. vol. 146; p. 559.  
 Cuff. E. L. Bevington. No. 939,203; Nov. 9; Sp. p. 1624; Gaz. vol. 148; p. 287.  
 Cuff and sleeve protector, Elastic. W. H. Emmert. No. 924,545; June 8; Sp. p. 3121; Gaz. vol. 143; p. 509.  
 Cuff-attacher. J. L. Parker. No. 911,155; Feb. 2; Sp. p. 265; Gaz. vol. 139; p. 46.  
 Cuff-blanks, &c., Machine for infolding the edges of. G. J. Dormandy. No. 924,151; June 8; Sp. p. 2292; Gaz. vol. 143; p. 377.  
 Cuff-fastener. J. H. Henderson. No. 922,476; May 25; Sp. p. 4898; Gaz. vol. 142; p. 872.  
 Cuff-holder. C. P. Clark. No. 908,745; Jan. 5; Sp. p. 672; Gaz. vol. 138; p. 104.  
 Cuff-holder. P. C. Ottinger. No. 913,761; Mar. 2; Sp. p. 179; Gaz. vol. 140; p. 30.  
 Cuff-holder. C. Walker. No. 923,738; June 1; Sp. p. 1364; Gaz. vol. 143; p. 215.  
 Cuff-holder. L. Brigham. No. 925,449; June 22; Sp. p. 4943; Gaz. vol. 143; p. 873.  
 Cuff-holder. L. E. Allen. No. 932,423; Aug. 31; Sp. p. 5899; Gaz. vol. 145; p. 1029.  
 Cuff-holder. W. J. Neefs. No. 934,091; Sept. 14; Sp. p. 2290; Gaz. vol. 146; p. 376.  
 Cuff-holder. W. S. Bachman. No. 939,464; Nov. 9; Sp. p. 2266; Gaz. vol. 148; p. 375.  
 Cuff-holder. W. S. Arnold. No. 940,225; Nov. 16; Sp. p. 3941; Gaz. vol. 148; p. 670.  
 Cuff-shaper. S. M. Cole. No. 936,761; Oct. 12; Sp. p. 2434; Gaz. vol. 147; p. 405.  
 Cuff, Thumb-. H. E. Wood. No. 929,910; Aug. 3; Sp. p. 622; Gaz. vol. 145; p. 98.  
 Culinary device. L. Nelson. No. 925,397; July 20; Sp. p. 3538; Gaz. vol. 144; p. 625.  
 Culinary device. H. R. French. No. 933,545; Sept. 7; Sp. p. 1201; Gaz. vol. 146; p. 175.  
 Culinary device for preparing omelet, &c. H. R. French. No. 924,336; June 8; Sp. p. 2712; Gaz. vol. 143; p. 441.  
 Culinary tool. A. G. Molnar. No. 932,631; Aug. 31; Sp. p. 6366; Gaz. vol. 145; p. 1099.  
 Culinary utensil. H. B. Seely. No. 909,238; Jan. 12; Sp. p. 1654; Gaz. vol. 138; p. 298.  
 Culinary utensil. C. J. Edinger. No. 915,574; Mar. 16; Sp. p. 3955; Gaz. vol. 140; p. 683.  
 Culinary utensil. E. T. Farmer. No. 915,577; Mar. 16; Sp. p. 3959; Gaz. vol. 140; p. 684.  
 Culinary utensil. J. H. Collins. No. 929,917; Aug. 3; Sp. p. 632; Gaz. vol. 145; p. 100.  
 Culinary utensil. A. F. Waddell. No. 930,634; Aug. 10; Sp. p. 2089; Gaz. vol. 145; p. 364.  
 Culinary utensil. O. Bagula. No. 932,943; Aug. 31; Sp. p. 6986; Gaz. vol. 145; p. 1200.  
 Culinary utensil. D. H. Coles. No. 935,189; Sept. 28; Sp. p. 4459; Gaz. vol. 146; p. 793.  
 Culinary utensil. W. Quinby. No. 940,059; Nov. 16; Sp. p. 3572; Gaz. vol. 148; p. 611.  
 Culinary vessel. J. H. Ressler. No. 921,888; May 18; Sp. p. 3697; Gaz. vol. 142; p. 652.  
 Cultivating attachment. C. S. Norcross. No. 931,333; Aug. 17; Sp. p. 3628; Gaz. vol. 145; p. 626.  
 Cultivating-machine. K. Koszegi and E. Széchenyi. No. 941,422; Nov. 30; Sp. p. 6582; Gaz. vol. 148; p. 1116.  
 Cultivator. P. Lochtin. No. 908,874; Jan. 5; Sp. p. 916; Gaz. vol. 138; p. 146.  
 Cultivator. O. Caron. No. 909,149; Jan. 12; Sp. p. 1490; Gaz. vol. 138; p. 271.  
 Cultivator. W. J. Asbell. No. 909,512; Jan. 12; Sp. p. 2191; Gaz. vol. 138; p. 389.  
 Cultivator. W. L. Paul. No. 911,067; Feb. 2; Sp. p. 88; Gaz. vol. 139; p. 16.  
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 Cultivator. J. T. Miller. No. 912,870; Feb. 16; Sp. p. 3828; Gaz. vol. 139; p. 674.  
 Cultivator. E. Biss. No. 913,461; Feb. 23; Sp. p. 5022; Gaz. vol. 139; p. 897.  
 Cultivator. A. Barkley. No. 914,228; Mar. 2; Sp. p. 1224; Gaz. vol. 140; p. 191.  
 Cultivator. E. Haiman. No. 914,568; Mar. 9; Sp. p. 1925; Gaz. vol. 140; p. 328.  
 Cultivator. A. Bridgen. No. 914,788; Mar. 9; Sp. p. 2385; Gaz. vol. 140; p. 400.  
 Cultivator. W. E. and R. H. Trice. No. 915,509; Mar. 16; Sp. p. 3566; Gaz. vol. 140; p. 662.  
 Cultivator. W. B. Dorsey. No. 915,567; Mar. 16; Sp. p. 3945; Gaz. vol. 140; p. 681.  
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 Cultivator. W. P. Dunlap. No. 918,298; Apr. 13; Sp. p. 2717; Gaz. vol. 141; p. 481.  
 Cultivator. B. F. Russell. No. 918,702; Apr. 20; Sp. p. 3036; Gaz. vol. 141; p. 644.  
 Cultivator. J. A. King. No. 922,000; May 18; Sp. p. 3941; Gaz. vol. 142; p. 689.  
 Cultivator. E. M. Heylman. No. 922,427; May 18; Sp. p. 4777; Gaz. vol. 142; p. 828.  
 Cultivator. W. D. Gaston. No. 923,163; June 1; Sp. p. 91; Gaz. vol. 143; p. 15.  
 Cultivator. A. C. Lodwig and O. Naumann. No. 923,541; June 1; Sp. p. 942; Gaz. vol. 143; p. 146.  
 Cultivator. H. Lucier. No. 925,362; June 15; Sp. p. 4762; Gaz. vol. 143; p. 813.  
 Cultivator. A. Helmlinger. No. 926,063; June 22; Sp. p. 6219; Gaz. vol. 143; p. 1073.  
 Cultivator. R. H. Griffith. No. 927,788; July 13; Sp. p. 2255; Gaz. vol. 144; p. 390.  
 Cultivator. E. J. Craig. No. 928,029; July 13; Sp. p. 2758; Gaz. vol. 144; p. 470.  
 Cultivator. R. L. Stalans. No. 928,079; July 13; Sp. p. 2853; Gaz. vol. 144; p. 486.  
 Cultivator. J. C. and H. O. Williams. No. 928,487; July 20; Sp. p. 3715; Gaz. vol. 144; p. 653.  
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 Cultivator. J. Power. No. 929,488; July 27; Sp. p. 5761; Gaz. vol. 144; p. 1011.  
 Cultivator. R. S. Wells. No. 930,109; Aug. 3; Sp. p. 1027; Gaz. vol. 145; p. 165.  
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 Cultivator. N. Tripp. No. 934,238; Sept. 14; Sp. p. 2581; Gaz. vol. 146; p. 427.  
 Cultivator. E. B. Fitzgerald. No. 935,008; Sept. 28; Sp. p. 4096; Gaz. vol. 146; p. 734.  
 Cultivator. C. Gardner. No. 935,487; Sept. 28; Sp. p. 5031; Gaz. vol. 146; p. 889.  
 Cultivator. C. Gardner. No. 935,488; Sept. 28; Sp. p. 5033; Gaz. vol. 146; p. 889.  
 Cultivator. A. Benton and C. D. Jordan. No. 935,578; Sept. 28; Sp. p. 5254; Gaz. vol. 146; p. 921.  
 Cultivator. C. W. Michael. No. 936,012; Oct. 5; Sp. p. 868; Gaz. vol. 147; p. 131.  
 Cultivator. D. F. Deppe. No. 936,765; Oct. 12; Sp. p. 2442; Gaz. vol. 147; p. 406.  
 Cultivator. H. B. Reynolds. No. 936,943; Oct. 12; Sp. p. 2778; Gaz. vol. 147; p. 465.  
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 Cultivator. H. Stripe. No. 937,268; Oct. 19; Sp. p. 3482; Gaz. vol. 147; p. 602.  
 Cultivator. F. E. and J. S. Bradley. No. 937,760; Oct. 26; Sp. p. 4505; Gaz. vol. 147; p. 782.  
 Cultivator. S. Waltman. No. 939,766; Nov. 9; Sp. p. 2922; Gaz. vol. 148; p. 480.  
 Cultivator. W. E. Johnson. No. 940,159; Nov. 16; Sp. p. 3784; Gaz. vol. 148; p. 645.  
 Cultivator. G. M. Roper. No. 941,589; Nov. 30; Sp. p. 6911; Gaz. vol. 148; p. 1170.  
 Cultivator. J. Hobson, Jr. No. 941,678; Nov. 30; Sp. p. 7096; Gaz. vol. 148; p. 1199.  
 Cultivator. C. W. Brown. No. 942,540; Dec. 7; Sp. p. 1075; Gaz. vol. 149; p. 174.  
 Cultivator. W. J. Sanborn. No. 944,215; Dec. 21; Sp. p. 4668; Gaz. vol. 149; p. 800.  
 Cultivator adjustable tool-joint. W. H. Dunsha. No. 937,778; Oct. 26; Sp. p. 4552; Gaz. vol. 147; p. 788.  
 Cultivator and cotton-chopper. H. N. Harper. No. 915,432; Mar. 16; Sp. p. 3658; Gaz. vol. 140; p. 637.  
 Cultivator and like machine. S. N. Hensch. No. 917,603; Apr. 6; Sp. p. 1247; Gaz. vol. 141; p. 220.  
 Cultivator and like machine. S. N. Hensch. No. 917,762; Apr. 13; Sp. p. 1609; Gaz. vol. 141; p. 299.  
 Cultivator attachment. D. B. Browning. No. 914,237; Mar. 2; Sp. p. 1243; Gaz. vol. 140; p. 194.  
 Cultivator attachment. W. N. Thornton. No. 924,510; June 8; Sp. p. 3037; Gaz. vol. 143; p. 497.  
 Cultivator attachment. T. A. Wylie. No. 932,741; Aug. 31; Sp. p. 6590; Gaz. vol. 145; p. 1136.  
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 Cultivator attachment. D. B. Browning. No. 937,674; Oct. 19; Sp. p. 4311; Gaz. vol. 147; p. 734.  
 Cultivator attachment. E. L. Ross. No. 943,316; Dec. 14; Sp. p. 2758; Gaz. vol. 149; p. 466.  
 Cultivator attachment. D. Bonnett. No. 944,939; Dec. 28; Sp. p. 6258; Gaz. vol. 149; p. 1075.  
 Cultivator attachment, Corn-. H. J. Neff. No. 928,146; July 13; Sp. p. 2968; Gaz. vol. 144; p. 508.  
 Cultivator, Automatic adjustable. W. L. Logan. No. 938,391; Oct. 26; Sp. p. 5873; Gaz. vol. 147; p. 996.  
 Cultivator, Celery-. W. L. Bonney. No. 908,645; Jan. 5; Sp. p. 463; Gaz. vol. 138; p. 73.  
 Cultivator, Cotton-. A. Pacha. No. 915,693; Mar. 16; Sp. p. 4219; Gaz. vol. 140; p. 727.  
 Cultivator, Cotton-. J. J. Green. No. 933,977; Sept. 14; Sp. p. 2063; Gaz. vol. 146; p. 340.  
 Cultivator, Cotton-. W. W. and H. L. Ross. No. 937,470; Oct. 19; Sp. p. 3927; Gaz. vol. 147; p. 668.  
 Cultivator, Disk. J. S. Bukacek and J. O. Huclicus. No. 914,921; Mar. 9; Sp. p. 2638; Gaz. vol. 140; p. 442.  
 Cultivator, Disk. W. L. Clevenger. No. 935,297; Sept. 28; Sp. p. 4665; Gaz. vol. 146; p. 829.  
 Cultivator, Double-row. H. K. Kriebel. No. 929,601; July 27; Sp. p. 5969; Gaz. vol. 144; p. 1048.  
 Cultivator-frame hay-rake attachment. F. Richard. No. 918,474; Apr. 13; Sp. p. 3065; Gaz. vol. 141; p. 538.  
 Cultivator-frames, Adjustable arch and beam-balance for. E. M. Buckhannon. No. 920,019; Apr. 27; Sp. p. 6526; Gaz. vol. 141; p. 1114.  
 Cultivator, Garden-. J. T. Anderson. No. 914,911; Mar. 9; Sp. p. 2625; Gaz. vol. 140; p. 440.  
 Cultivator, Gravity hand-. J. E. Hosmer. No. 933,986; Sept. 14; Sp. p. 2078; Gaz. vol. 146; p. 343.  
 Cultivator harrow attachment. J. F. Barbee. No. 910,349; Jan. 19; Sp. p. 3922; Gaz. vol. 138; p. 705.  
 Cultivator or harrow frame. T. C. West. No. 920,408; May 4; Sp. p. 642; Gaz. vol. 142; p. 103.  
 Cultivator or plow, Wheeled. T. D. Heath. No. 928,604; July 20; Sp. p. 3965; Gaz. vol. 144; p. 692.  
 Cultivator replanting attachment. E. D. Beers. No. 910,774; Jan. 26; Sp. p. 4801; Gaz. vol. 138; p. 868.  
 Cultivator replanting attachment. F. M. Horn. No. 937,306; Oct. 19; Sp. p. 3547; Gaz. vol. 147; p. 613.  
 Cultivator, Riding-. A. E. Kistler. No. 928,769; July 20; Sp. p. 4282; Gaz. vol. 144; p. 746.  
 Cultivator, Rotary. L. Aksnes. No. 915,404; Mar. 16; Sp. p. 3604; Gaz. vol. 140; p. 627.  
 Cultivator shield, Corn-. F. G. Timm. No. 927,296; July 6; Sp. p. 1214; Gaz. vol. 144; p. 199.  
 Cultivator-shield for corn-cultivators. F. A. Tuttle. No. 917,912; Apr. 13; Sp. p. 1927; Gaz. vol. 141; p. 349.  
 Cultivator-shovel. W. J. Herscher. No. 922,584; May 25; Sp. p. 5117; Gaz. vol. 142; p. 908.  
 Cultivator-shovels, Detachable point for. T. E. Friend. No. 944,484; Dec. 28; Sp. p. 5265; Gaz. vol. 149; p. 921.  
 Cultivator, Spring-tooth. G. G. Bridgen. No. 944,770; Dec. 28; Sp. p. 5909; Gaz. vol. 149; p. 1019.  
 Cultivator swivel-wheel attachment. S. Seitzer, Jr. No. 931,504; Aug. 17; Sp. p. 3962; Gaz. vol. 145; p. 683.  
 Cultivator, Wheeled. G. N. Hypse. No. 911,128; Feb. 2; Sp. p. 200; Gaz. vol. 139; p. 38.  
 Cultivators and other agricultural implements, Attachment for riding-. C. N. Simpson. No. 936,823; Oct. 12; Sp. p. 2547; Gaz. vol. 147; p. 426.  
 Cultivators, Break-pin structure for. F. H. Bateman. No. 929,539; July 27; Sp. p. 5852; Gaz. vol. 144; p. 1028.  
 Cultivators or gang-plows, Coupling for the beams of. W. L. Paul. No. 943,704; Dec. 21; Sp. p. 3615; Gaz. vol. 149; p. 629.  
 Culvert. D. C. Boyd. No. 913,685; Mar. 2; Sp. p. 13; Gaz. vol. 140; p. 5.  
 Culvert. H. A. Brownell. No. 914,110; Mar. 2; Sp. p. 977; Gaz. vol. 140; p. 154.  
 Culvert. D. C. Boyd. No. 915,266; Mar. 16; Sp. p. 3331; Gaz. vol. 140; p. 582.  
 Culvert. C. F. Alt. No. 918,723; Apr. 20; Sp. p. 3678; Gaz. vol. 141; p. 652.  
 Culvert. M. F. and O. Parks. No. 925,019; June 15; Sp. p. 4126; Gaz. vol. 143; p. 702.  
 Culvert. G. Mahoney and F. A. Rounds. No. 928,265; July 20; Sp. p. 3264; Gaz. vol. 144; p. 580.  
 Culvert. J. H. Schlafly. No. 934,574; Sept. 21; Sp. p. 3217; Gaz. vol. 146; p. 561.  
 Culvert. L. Schnurer. No. 942,466; Dec. 7; Sp. p. 918; Gaz. vol. 149; p. 148.  
 Culvert, Corrugated-metal. A. G. Hague. No. 942,256; Dec. 7; Sp. p. 488; Gaz. vol. 149; p. 76.  
 Culvert, Corrugated-metal. E. Pankhurst and A. C. Bisbee. No. 944,985; Dec. 28; Sp. p. 6355; Gaz. vol. 149; p. 1090.  
 Culvert, Corrugated metallic. H. Mallory. No. 914,963; Mar. 9; Sp. p. 2711; Gaz. vol. 140; p. 456.  
 Culvert, Corrugated metallic. J. Zelch. No. 919,997; Apr. 27; Sp. p. 6486; Gaz. vol. 141; p. 1107.  
 Culvert-fastener. C. E. Gilbert. No. 917,583; Apr. 6; Sp. p. 1217; Gaz. vol. 141; p. 213.  
 Culvert flexible joint. J. Doyle. No. 931,581; Aug. 17; Sp. p. 4102; Gaz. vol. 145; p. 706.  
 Culvert, Metal. O. A. Haas. No. 935,971; Oct. 5; Sp. p. 790; Gaz. vol. 147; p. 117.  
 Culvert, Metal. F. A. Sicklesteel and F. C. Ballard. No. 937,876; Oct. 26; Sp. p. 4749; Gaz. vol. 147; p. 821.  
 Culvert-mold. W. C. Fife and S. R. Coleman. No. 918,030; Apr. 13; Sp. p. 2185; Gaz. vol. 141; p. 392.  
 Culvert-mold. W. C. Fife and S. R. Coleman. No. 935,007; Sept. 28; Sp. p. 4094; Gaz. vol. 146; p. 734.  
 Culvert-pipe. C. O. Wold. No. 912,638; Feb. 16; Sp. p. 3338; Gaz. vol. 139; p. 599.  
 Culvert-pipe. S. T. Ferguson. No. 915,086; Mar. 16; Sp. p. 2942; Gaz. vol. 140; p. 523.  
 Culvert-pipe, Sheet-metal. W. N. Klotz. No. 934,673; Sept. 21; Sp. p. 3420; Gaz. vol. 146; p. 597.  
 Cup: See Drinking-cup; Engine priming-cup; Eye-cup; Faucet jewel-cup; Feed-cup; Force-cup; Gas-water-heater drip-cup; Grease-cup; Grease or lubricant-cup; Hospital-cup; Latex-cup; Lubricating-cup; Oil-cup; Refrigerator drip-cup; Resistance-cup; Rubberelastic force-cup; Sediment-cup; Shaving-cup; Sputa-cup; Sputum-cup; Turpentine-cup; Umbrella drip-cup.  
 Cup. M. Dishman. No. 941,236; Nov. 23; Sp. p. 6164; Gaz. vol. 148; p. 1034.  
 Cup attachment, Drinking-. D. M. Simpson. No. 940,204; Nov. 16; Sp. p. 3904; Gaz. vol. 148; p. 663.



*Alphabetical list of inventions—Continued.*

- Cup-holding rack. A. Insinger. No. 932,021; Aug. 24; Sp. p. 5102; Gaz. vol. 145; p. 872.
- Cup-shaped articles, Apparatus for making. W. H. Smith. No. 909,342; Jan. 12; Sp. p. 1854; Gaz. vol. 138; p. 332.
- Cupboard and bed combined. O. Knutson. No. 926,988; July 6; Sp. p. 577; Gaz. vol. 144; p. 95.
- Cupboard and wardrobe, Knockdown. J. H. Hiscock. No. 943,075; Dec. 14; Sp. p. 2276; Gaz. vol. 149; p. 386.
- Cupola. N. F. Wilshire. No. 924,025; June 8; Sp. p. 2030; Gaz. vol. 143; p. 337.
- Cupola attachment. C. J. Langhorst. No. 909,622; Jan. 12; Sp. p. 2401; Gaz. vol. 138; p. 425.
- Curb-corners, Nosing for. W. S. Clifford. No. 940,432; Nov. 16; Sp. p. 4428; Gaz. vol. 148; p. 740.
- Curd-agitator. E. Mandel. No. 932,991; Aug. 31; Sp. p. 7066; Gaz. vol. 145; p. 1215.
- Curler, Hair-. A. A. West. No. 944,226; Dec. 21; Sp. p. 4688; Gaz. vol. 149; p. 803.
- Curling-iron. A. H. Gemmell. No. 917,580; Apr. 6; Sp. p. 1209; Gaz. vol. 141; p. 212.
- Curling-iron. M. R. Prudhomme. No. 922,949; May 25; Sp. p. 5895; Gaz. vol. 142; p. 1027.
- Curling-iron, Electric. C. W. Wilmot. No. 930,586; Aug. 10; Sp. p. 1981; Gaz. vol. 145; p. 343.
- Curling-iron, Electrically-heated. B. Y. Snyder. No. 914,888; Mar. 9; Sp. p. 2593; Gaz. vol. 140; p. 433.
- Curling-iron heater. H. W. Denhard. No. 932,539; Aug. 31; Sp. p. 6150; Gaz. vol. 145; p. 1067.
- Curling-iron heater, Electric. M. M. Buck. No. 928,936; July 27; Sp. p. 4623; Gaz. vol. 144; p. 829.
- Curling-tool. B. Katzenberg. No. 943,749; Dec. 21; Sp. p. 3708; Gaz. vol. 149; p. 645.
- Currency-tray. W. A. Conway. No. 922,751; May 25; Sp. p. 5468; Gaz. vol. 142; p. 962.
- Current apparatus, Alternating-. W. Stanley. No. 941,467; Nov. 30; Sp. p. 6670; Gaz. vol. 148; p. 1131.
- Current apparatus, Undulating-. F. Cederger. No. 913,104; Feb. 23; Sp. p. 4285; Gaz. vol. 139; p. 777.
- Current-collecting apparatus. J. E. Noergerath. No. 920,627; May 4; Sp. p. 1078; Gaz. vol. 142; p. 175.
- Current-collector. G. R. Forster. No. 939,995; Nov. 16; Sp. p. 3409; Gaz. vol. 148; p. 587.
- Current collector, Electric-. A. H. Angle and L. R. Hecker. No. 926,088; June 29; Sp. p. 6289; Gaz. vol. 143; p. 1117.
- Current-collector, Underrunning. S. B. Stewart, Jr. No. 941,390; Nov. 30; Sp. p. 6500; Gaz. vol. 148; p. 1103.
- Current contact apparatus, Automatic alternating-. C. E. L. Brown. No. 918,417; Apr. 13; Sp. p. 2946; Gaz. vol. 141; p. 519.
- Current-controller. F. Andrew. No. 937,201; Oct. 19; Sp. p. 3327; Gaz. vol. 147; p. 670.
- Current-controlling means, Alternating-. D. L. Lindquist. No. 937,617; Oct. 19; Sp. p. 4210; Gaz. vol. 147; p. 717.
- Current-indicating apparatus. J. S. J. Lallie. No. 914,959; Mar. 9; Sp. p. 2706; Gaz. vol. 140; p. 455.
- Current indicator, Electric-. F. N. Conant. No. 913,105; Feb. 23; Sp. p. 4288; Gaz. vol. 139; p. 777.
- Current indicator or detector. C. D. Babcock. No. 927,314; July 6; Sp. p. 1242; Gaz. vol. 144; p. 204.
- Current meter, Alternating-. W. Stanly. No. 941,469; Nov. 30; Sp. p. 6678; Gaz. vol. 148; p. 1131.
- Current-motor. E. Imboden. No. 914,574; Mar. 9; Sp. p. 1933; Gaz. vol. 140; p. 330.
- Current-motor. J. Messina. No. 922,935; May 25; Sp. p. 5867; Gaz. vol. 142; p. 1022.
- Current-motor. C. A. Neyland. No. 930,878; Aug. 10; Sp. p. 2601; Gaz. vol. 145; p. 444.
- Current motor, Alternating-. M. C. A. Latour. No. 909,193; Jan. 12; Sp. p. 1575; Gaz. vol. 138; p. 283.
- Current motor, Alternating-. M. Mlch. No. 918,690; Apr. 20; Sp. p. 3604; Gaz. vol. 141; p. 639.
- Current motor, Alternating-. E. F. W. Alexanderson. No. 920,896; May 4; Sp. p. 1643; Gaz. vol. 142; p. 262.
- Current motor, Alternating-. W. E. Goldsborough. No. 921,826; May 13; Sp. p. 3578; Gaz. vol. 142; p. 633.
- Current motor, Alternating-. E. F. W. Alexanderson. No. 923,753; June 1; Sp. p. 1399; Gaz. vol. 143; p. 219.
- Current motor, Alternating-. E. F. W. Alexanderson. No. 923,754; June 1; Sp. p. 1404; Gaz. vol. 143; p. 219.
- Current motor, Alternating-. E. F. W. Alexanderson. No. 927,398; July 6; Sp. p. 1380; Gaz. vol. 144; p. 231.
- Current motor, Alternating-. A. C. and T. R. Bell. No. 935,352; Sept. 28; Sp. p. 4794; Gaz. vol. 146; p. 847.
- Current motor, Alternating-. F. Eichberg. No. 936,615; Oct. 12; Sp. p. 2147; Gaz. vol. 147; p. 355.
- Current motor, Variable-speed alternating-. R. D. Mershon. No. 931,136; Aug. 17; Sp. p. 3188; Gaz. vol. 145; p. 557.
- Current motors, Protective device for commutator-type alternating-. B. G. Lammie. No. 923,666; June 1; Sp. p. 1224; Gaz. vol. 143; p. 189.
- Current-rectifying apparatus. R. F. Jackson. No. 931,124; Aug. 17; Sp. p. 3156; Gaz. vol. 145; p. 553.
- Current-rectifying apparatus, Alternating-. C. P. Steinmetz. No. 930,997; Aug. 10; Sp. p. 2861; Gaz. vol. 145; p. 482.
- Current regulator, Alternating-. R. S. McLeod. No. 913,757; Mar. 2; Sp. p. 170; Gaz. vol. 140; p. 29.
- Current regulator, Alternating-. C. H. Thordarson. No. 921,311; May 11; Sp. p. 2491; Gaz. vol. 142; p. 433.
- Current regulator, Constant-. A. A. Tirrill. No. 924,857; June 15; Sp. p. 3789; Gaz. vol. 143; p. 648.
- Current system of control, Alternating direct-. H. L. Beach. No. 929,185; July 27; Sp. p. 5144; Gaz. vol. 144; p. 913.
- Current-testing device. H. H. Morrell. No. 944,271; Dec. 28; Sp. p. 4785; Gaz. vol. 149; p. 847.
- Current-transformer regulator, Alternating-. A. C. Lasher. No. 933,767; Sept. 14; Sp. p. 1648; Gaz. vol. 146; p. 272.
- Current variations, Producing amplified. E. Weintraub and M. C. A. Latour. No. 921,930; May 18; Sp. p. 3783; Gaz. vol. 142; p. 666.
- Currents, Device for steadying. P. H. Thomas. No. 928,287; July 20; Sp. p. 3325; Gaz. vol. 144; p. 587.
- Currents having limited strength, Process and apparatus for producing. M. M. Osnos. No. 931,336; Aug. 17; Sp. p. 3633; Gaz. vol. 145; p. 627.
- Currents machinery, Safety device for polyphase-. J. M. S. Fontecha. No. 934,063; Sept. 14; Sp. p. 2219; Gaz. vol. 146; p. 367.
- Currents, Means for rectifying single-phase. J. L. Woodbridge. No. 941,599; Nov. 30; Sp. p. 6935; Gaz. vol. 148; p. 1173.
- Currents, Rotary converter for direct. L. A. Hawkins. No. 927,142; July 6; Sp. p. 932; Gaz. vol. 144; p. 149.
- Currents, System for generating alternating. W. Stanley. No. 925,607; June 22; Sp. p. 5252; Gaz. vol. 143; p. 924.
- Currycomb. J. Olsafskie. No. 909,207; Jan. 12; Sp. p. 1601; Gaz. vol. 138; p. 288.
- Currycomb. C. Mayr. No. 917,881; Apr. 13; Sp. p. 1852; Gaz. vol. 141; p. 338.
- Currycomb. J. F. Marsolais. No. 921,136; May 11; Sp. p. 2122; Gaz. vol. 142; p. 374.
- Currycomb. G. M. Hubbard. No. 925,637; June 22; Sp. p. 5313; Gaz. vol. 143; p. 934.
- Currycomb. A. C. Ditmar. No. 934,799; Sept. 21; Sp. p. 3675; Gaz. vol. 146; p. 638.
- Currycomb and brush, Combination. J. Laborde. No. 932,569; Aug. 31; Sp. p. 6195; Gaz. vol. 145; p. 1074.
- Currycomb attachment. R. W. Hamler. No. 921,695; May 18; Sp. p. 3308; Gaz. vol. 142; p. 589.
- Currycombs, brushes, &c., Attachment for. J. S. Sourek. No. 924,010; June 8; Sp. p. 2004; Gaz. vol. 143; p. 332.
- Curtain and shade fixture, Combination. E. Gabel. No. 943,222; Dec. 14; Sp. p. 2554; Gaz. vol. 149; p. 433.
- Curtain and shade hanger, Combined window. J. W. Henley. No. 938,485; Nov. 2; Sp. p. 72; Gaz. vol. 148; p. 13.
- Curtain and shade holder, Window. A. Logsdon. No. 913,019; Feb. 23; Sp. p. 4122; Gaz. vol. 139; p. 748.
- Curtain-bracket. M. Wheeler. No. 932,078; Aug. 24; Sp. p. 5226; Gaz. vol. 145; p. 891.
- Curtain-bracket. J. D. Sullivan. No. 938,088; Oct. 26; Sp. p. 5206; Gaz. vol. 147; p. 892.
- Curtain-bracket. C. B. Dumond. No. 939,815; Nov. 9; Sp. p. 3013; Gaz. vol. 148; p. 496.
- Curtain-bracket, Combination. E. D. Parker. No. 940,820; Nov. 23; Sp. p. 5277; Gaz. vol. 148; p. 895.
- Curtain-draping apparatus. M. A. Tompkins. No. 925,853; June 22; Sp. p. 5804; Gaz. vol. 143; p. 1005.
- Curtain-fastener. H. Higgin. No. 923,523; June 1; Sp. p. 909; Gaz. vol. 143; p. 140.
- Curtain-fastener. E. J. Lombard. No. 928,677; July 20; Sp. p. 4111; Gaz. vol. 144; p. 716.
- Curtain-fastener. J. Grizzell. No. 936,884; Oct. 12; Sp. p. 2674; Gaz. vol. 147; p. 446.
- Curtain-fastener. G. B. Johnson and R. C. Cotton. No. 937,998; Oct. 26; Sp. p. 5003; Gaz. vol. 147; p. 862.
- Curtain-fixture. P. A. Houghtaling. No. 909,186; Jan. 12; Sp. p. 1556; Gaz. vol. 138; p. 281.
- Curtain-fixture. C. F. Dawson. No. 911,383; Feb. 2; Sp. p. 700; Gaz. vol. 139; p. 120.
- Curtain-fixture. A. Hansen. No. 916,307; Mar. 23; Sp. p. 5365; Gaz. vol. 140; p. 952.
- Curtain-fixture. H. E. Keeler. No. 919,180; Apr. 20; Sp. p. 4580; Gaz. vol. 141; p. 799.
- Curtain-fixture. J. W. Kummer. No. 923,050; May 25; Sp. p. 6093; Gaz. vol. 142; p. 1058.
- Curtain-fixture. F. H. Bassett. No. 923,239; June 1; Sp. p. 243; Gaz. vol. 143; p. 41.
- Curtain-fixture. H. E. Keeler. No. 923,794; June 1; Sp. p. 1556; Gaz. vol. 143; p. 232.
- Curtain-fixture. C. L. Hopkins. No. 924,781; June 15; Sp. p. 3627; Gaz. vol. 143; p. 622.
- Curtain-fixture. O. Datter. No. 924,892; June 15; Sp. p. 3866; Gaz. vol. 143; p. 659.
- Curtain-fixture. H. E. Keeler. No. 925,344; June 15; Sp. p. 4726; Gaz. vol. 143; p. 807.
- Curtain-fixture. P. Raminger. No. 925,829; June 22; Sp. p. 5759; Gaz. vol. 143; p. 996.
- Curtain-fixture. G. J. Johnson. No. 926,193; June 29; Sp. p. 6521; Gaz. vol. 143; p. 1153.
- Curtain-fixture. G. H. Forsyth. No. 928,910; July 20; Sp. p. 4573; Gaz. vol. 144; p. 796.
- Curtain-fixture. P. Drinkaus, Sr. No. 929,923; Aug. 3; Sp. p. 640; Gaz. vol. 145; p. 102.
- Curtain-fixture. F. A. Newton. No. 931,790; Aug. 24; Sp. p. 4597; Gaz. vol. 145; p. 797.
- Curtain-fixture. J. Darling. No. 932,252; Aug. 24; Sp. p. 5571; Gaz. vol. 145; p. 949.
- Curtain-fixture. H. A. Depp. No. 932,684; Aug. 31; Sp. p. 6477; Gaz. vol. 145; p. 1116.
- Curtain-fixture. C. W. and L. A. Friedman. No. 934,665; Sept. 21; Sp. p. 3405; Gaz. vol. 146; p. 594.
- Curtain-fixture. B. W. Coddington. No. 942,439; Dec. 7; Sp. p. 843; Gaz. vol. 149; p. 138.
- Curtain-fixture, Swinging. C. F. Sullivan. No. 924,015; June 8; Sp. p. 2012; Gaz. vol. 143; p. 334.
- Curtain-frame. W. Sieckmann. No. 934,364; Sept. 14; Sp. p. 2810; Gaz. vol. 146; p. 468.
- Curtain-hanging fixture, Adjustable. R. C. Davie. No. 923,630; June 1; Sp. p. 1157; Gaz. vol. 143; p. 177.

*Alphabetical list of inventions—Continued.*

- Curtain-hanging means, Window-. A. Kale and C. Gilfillan. No. 915,444; Mar. 16; Sp. p. 3682; Gaz. vol. 140; p. 641.
- Curtain-holder. C. H. Keyes. No. 912,854; Feb. 16; Sp. p. 3805; Gaz. vol. 139; p. 670.
- Curtain-holder and bracket, Extension. G. A. Milholland. No. 926,071; June 22; Sp. p. 6247; Gaz. vol. 143; p. 1076.
- Curtain-holding device. C. L. Hopkins. No. 911,982; Feb. 9; Sp. p. 1960; Gaz. vol. 139; p. 344.
- Curtain-holding mechanism, Window-. C. G. Donahoe and H. A. Taylor. No. 936,427; Oct. 12; Sp. p. 1749; Gaz. vol. 147; p. 292.
- Curtain-hook. M. L. Gould. No. 932,778; Aug. 31; Sp. p. 6688; Gaz. vol. 145; p. 1147.
- Curtain-hook. O. F. McCall and C. L. Taft. No. 939,064; Nov. 2; Sp. p. 1312; Gaz. vol. 148; p. 212.
- Curtain-hook. C. H. Maass. No. 940,642; Nov. 16; Sp. p. 4863; Gaz. vol. 148; p. 809.
- Curtain or shade fixture, Adjustable. A. A. Smith. No. 908,810; Jan. 5; Sp. p. 787; Gaz. vol. 138; p. 124.
- Curtain-pole. J. P. Reed. No. 911,444; Feb. 2; Sp. p. 803; Gaz. vol. 139; p. 140.
- Curtain-pole. F. Wukmanic. No. 913,344; Feb. 23; Sp. p. 4785; Gaz. vol. 139; p. 857.
- Curtain-pole. J. B. Phinney. No. 914,876; Mar. 9; Sp. p. 2570; Gaz. vol. 140; p. 429.
- Curtain-pole. W. McCabe. No. 917,105; Apr. 6; Sp. p. 290; Gaz. vol. 141; p. 53.
- Curtain-pole. G. H. Foulks. No. 917,426; Apr. 6; Sp. p. 937; Gaz. vol. 141; p. 163.
- Curtain-pole. C. F. Laun. No. 917,772; Apr. 13; Sp. p. 1627; Gaz. vol. 141; p. 302.
- Curtain-pole. J. Herskho. No. 920,058; Apr. 27; Sp. p. 6634; Gaz. vol. 141; p. 1128.
- Curtain-pole. R. Deucher. No. 922,100; May 18; Sp. p. 4131; Gaz. vol. 142; p. 722.
- Curtain-pole. J. M. Wiedeman. No. 922,229; May 18; Sp. p. 4403; Gaz. vol. 142; p. 764.
- Curtain-pole. C. B. Rimmel. No. 925,386; June 15; Sp. p. 4806; Gaz. vol. 143; p. 821.
- Curtain-pole. A. C. Butcher. No. 927,109; July 6; Sp. p. 864; Gaz. vol. 144; p. 138.
- Curtain-pole. M. Scanlon. No. 933,000; Aug. 31; Sp. p. 7084; Gaz. vol. 145; p. 1218.
- Curtain-pole. C. C. Schell. No. 938,792; Nov. 2; Sp. p. 732; Gaz. vol. 148; p. 118.
- Curtain-pole and shade-roller holder. S. A. Dzimiran. No. 932,975; Aug. 31; Sp. p. 7040; Gaz. vol. 145; p. 1210.
- Curtain-pole fixture. F. L. Lathrop. No. 911,732; Feb. 9; Sp. p. 1408; Gaz. vol. 139; p. 262.
- Curtain-pole fixture. W. S. Moffat. No. 937,457; Oct. 19; Sp. p. 3901; Gaz. vol. 147; p. 663.
- Curtain-pole ring. F. Bartholomae. No. 922,241; May 18; Sp. p. 4418; Gaz. vol. 142; p. 767.
- Curtain-pole support. I. E. Eells and E. N. McKelvey. No. 940,711; Nov. 23; Sp. p. 5026; Gaz. vol. 148; p. 858.
- Curtain-pole support and curtain-shade-roller bracket, Combined. H. E. McCoy. No. 932,308; Aug. 24; Sp. p. 5672; Gaz. vol. 145; p. 968.
- Curtain-pole support and shade-roller hanger. J. J. Hess, Jr. No. 915,598; Mar. 16; Sp. p. 4001; Gaz. vol. 140; p. 691.
- Curtain-ring. W. H. Edsall. No. 944,721; Dec. 28; Sp. p. 5800; Gaz. vol. 149; p. 1003.
- Curtain-ring, Ball-bearing. J. W. Leslie. No. 912,476; Feb. 16; Sp. p. 2993; Gaz. vol. 139; p. 541.
- Curtain-rod. L. C. Lazear. No. 924,248; June 8; Sp. p. 2528; Gaz. vol. 143; p. 411.
- Curtain-rod. A. T. Howland. No. 926,945; July 6; Sp. p. 495; Gaz. vol. 144; p. 81.
- Curtain-rod. J. N. Henry. No. 930,288; Aug. 3; Sp. p. 1348; Gaz. vol. 145; p. 223.
- Curtain-rod, Car-window. C. O. Birney. No. 924,419; June 8; Sp. p. 2864; Gaz. vol. 143; p. 468.
- Curtain-rod fixture. L. K. Brigham. No. 935,357; Sept. 28; Sp. p. 4801; Gaz. vol. 146; p. 843.
- Curtain-rod leader. C. W. Boulton. No. 940,668; Nov. 23; Sp. p. 4932; Gaz. vol. 148; p. 848.
- Curtain-rod support. F. L. Lathrop. No. 933,082; Sept. 7; Sp. p. 92; Gaz. vol. 146; p. 16.
- Curtain-roller. T. Digney. No. 910,917; Jan. 26; Sp. p. 5073; Gaz. vol. 138; p. 914.
- Curtain-roller. H. Tripp. No. 936,387; Oct. 12; Sp. p. 1644; Gaz. vol. 147; p. 278.
- Curtain-roller and curtain-pole support, Extensible combined. J. W. Thoreau. No. 936,583; Oct. 12; Sp. p. 2074; Gaz. vol. 147; p. 344.
- Curtain-stretcher. C. W. Ballou. No. 908,640; Jan. 5; Sp. p. 443; Gaz. vol. 138; p. 71.
- Curtain-stretcher. C. Miller. No. 925,210; June 15; Sp. p. 4493; Gaz. vol. 143; p. 767.
- Curtain-stretcher. J. D. Mason. No. 925,366; June 15; Sp. p. 4770; Gaz. vol. 143; p. 814.
- Curtain-stretcher. J. Stawartz. No. 926,081; June 22; Sp. p. 6267; Gaz. vol. 143; p. 1079.
- Curtain-stretcher. H. Adler. No. 929,181; July 27; Sp. p. 5129; Gaz. vol. 144; p. 911.
- Curtain-stretcher. H. E. Southworth. No. 929,991; Aug. 3; Sp. p. 784; Gaz. vol. 145; p. 125.
- Curtain-support. E. S. Dinkel. No. 920,440; May 4; Sp. p. 712; Gaz. vol. 142; p. 113.
- Curtain-support. E. F. Marceau. No. 943,151; Dec. 14; Sp. p. 2425; Gaz. vol. 149; p. 412.
- Curtain-supporter. L. N. Marchann. No. 914,865; Mar. 9; Sp. p. 2549; Gaz. vol. 140; p. 426.
- Curtains and other articles, Apparatus for displaying and storing. J. G. Lamb and T. H. White. No. 915,610; Mar. 16; Sp. p. 4028; Gaz. vol. 140; p. 695.
- Curve-scriber. J. Gill. No. 922,575; May 25; Sp. p. 5103; Gaz. vol. 142; p. 905.
- Curving machine, Sheet-material-. C. N. Frey. No. 938,751; Nov. 2; Sp. p. 646; Gaz. vol. 148; p. 103.
- Cushion: See Automobile air-cushion; Boot and shoe internal cushion; Boot or shoe heel-cushion; Heel-cushion; Stamp-cushion; Vehicle-cushion; Ventilated cushion.
- Cushion. E. G. Budd. No. 911,201; Feb. 2; Sp. p. 352; Gaz. vol. 139; p. 61.
- Cushion. A. H. Ordway. No. 926,821; July 6; Sp. p. 242; Gaz. vol. 144; p. 38.
- Cushion. E. G. Budd. No. 944,662; Dec. 28; Sp. p. 5669; Gaz. vol. 149; p. 983.
- Cushion and mattress. J. Etot. No. 943,923; Dec. 21; Sp. p. 4071; Gaz. vol. 149; p. 706.
- Cushion-edge support. F. H. Hampton. No. 935,844; Oct. 5; Sp. p. 516; Gaz. vol. 147; p. 75.
- Cushion for the bottoms of chair-legs, &c. W. Maier. No. 938,883; Nov. 2; Sp. p. 941; Gaz. vol. 148; p. 149.
- Cushion-spring for vehicles, Uphrow. C. L. Thomas. No. 926,685; June 29; Sp. p. 7451; Gaz. vol. 143; p. 1313.
- Cushion-stuffing device. C. A. Lee. No. 939,278; Nov. 9; Sp. p. 1802; Gaz. vol. 148; p. 312.
- Cushion-wheel. A. Ellis. No. 938,834; Nov. 2; Sp. p. 829; Gaz. vol. 148; p. 133.
- Cushion-wheel. E. J. Pope. No. 942,741; Dec. 7; Sp. p. 1468; Gaz. vol. 149; p. 240.
- Cushion-wheel. H. Oudinot and C. Putois. No. 944,576; Dec. 28; Sp. p. 5499; Gaz. vol. 149; p. 954.
- Cushioned wheel. W. H. Bachtel. No. 931,717; Aug. 24; Sp. p. 4435; Gaz. vol. 145; p. 772.
- Cushioning device. F. O. Kilgore. No. 923,858; June 8; Sp. p. 1708; Gaz. vol. 143; p. 284.
- Cuspidor. L. C. Snyder. No. 917,673; Apr. 6; Sp. p. 1379; Gaz. vol. 141; p. 243.
- Cuspidor. W. C. Bridges. No. 920,722; May 4; Sp. p. 1289; Gaz. vol. 142; p. 207.
- Cuspidor. T. L. Thatcher. No. 921,483; May 11; Sp. p. 2856; Gaz. vol. 142; p. 491.
- Cuspidor. F. W. Kendall and W. J. Owen. No. 923,660; June 1; Sp. p. 1216; Gaz. vol. 143; p. 187.
- Cuspidor. F. W. Kendall. No. 923,661; June 1; Sp. p. 1218; Gaz. vol. 143; p. 187.
- Cuspidor. H. E. Weber. No. 924,515; June 8; Sp. p. 3046; Gaz. vol. 143; p. 499.
- Cuspidor. A. Egenhofer. No. 925,998; June 22; Sp. p. 6082; Gaz. vol. 143; p. 1052.
- Cuspidor. F. E. Fellion. No. 927,136; July 6; Sp. p. 909; Gaz. vol. 144; p. 147.
- Cuspidor. J. H. Gregory and F. M. Shumway. No. 936,774; Oct. 12; Sp. p. 2456; Gaz. vol. 147; p. 409.
- Cuspidor. W. J. Heim. No. 936,888; Oct. 12; Sp. p. 2682; Gaz. vol. 147; p. 447.
- Cuspidor. M. D. Green. No. 937,519; Oct. 19; Sp. p. 4030; Gaz. vol. 147; p. 685.
- Cuspidor. L. T. Pollard. No. 937,645; Oct. 19; Sp. p. 4258; Gaz. vol. 147; p. 726.
- Cuspidor. S. B. McDermott and H. C. Mory. No. 937,843; Oct. 26; Sp. p. 4678; Gaz. vol. 147; p. 810.
- Cuspidor. G. R. Teschel. No. 938,912; Nov. 2; Sp. p. 1018; Gaz. vol. 148; p. 161.
- Cuspidor. D. V. Haddock. No. 939,013; Nov. 2; Sp. p. 1218; Gaz. vol. 148; p. 194.
- Cuspidor and rubbish-receptacle, Combined. N. A. Pennoyer. No. 923,883; June 8; Sp. p. 1753; Gaz. vol. 143; p. 292.
- Cuspidor-carrier. A. J. Fasnemyer. No. 932,258; Aug. 24; Sp. p. 5581; Gaz. vol. 145; p. 951.
- Cuspidor-cover. L. E. and J. B. Wilson. No. 927,307; July 6; Sp. p. 1231; Gaz. vol. 144; p. 202.
- Cuspidor, Flush-. J. W. Cooper. No. 914,927; Mar. 9; Sp. p. 2651; Gaz. vol. 140; p. 445.
- Cuspidor, Railway-. W. Hill. No. 935,508; Sept. 28; Sp. p. 5101; Gaz. vol. 146; p. 897.
- Cuspidor, Sanitary. D. R. Reece. No. 932,174; Aug. 24; Sp. p. 5413; Gaz. vol. 145; p. 923.
- Cuspidors and other hydraulic devices, Automatic cut-off for. D. J. Merrick and C. J. Funk. No. 944,741; Dec. 28; Sp. p. 5846; Gaz. vol. 149; p. 1009.
- Cut-off. A. L. Rosene. No. 909,680; Jan. 12; Sp. p. 2510; Gaz. vol. 138; p. 446.
- Cut-off and filter for rain-sprouts, Automatic. W. S. Bare. No. 936,210; Oct. 5; Sp. p. 1265; Gaz. vol. 147; p. 192.
- Cut-off, Automatic. J. Miller and C. M. Hansen. No. 910,939; Jan. 26; Sp. p. 5109; Gaz. vol. 138; p. 921.
- Cut-off, Automatic. V. A. Croshier. No. 921,953; May 18; Sp. p. 3839; Gaz. vol. 142; p. 972.
- Cut-off, Automatic. C. M. Brown. No. 933,850; Sept. 14; Sp. p. 1872; Gaz. vol. 146; p. 309.
- Cut-off, Automatic. P. Dixon. No. 942,623; Dec. 7; Sp. p. 1232; Gaz. vol. 149; p. 201.
- Cut-off, Backwater. H. E. S. Crawford. No. 921,513; May 11; Sp. p. 2922; Gaz. vol. 142; p. 501.
- Cut-off, Float. H. Mohr. Sr. No. 928,319; July 20; Sp. p. 3404; Gaz. vol. 144; p. 599.
- Cut-off or controlling devices, Operating mechanism for. T. J. Burke. No. 929,385; July 27; Sp. p. 5590; Gaz. vol. 144; p. 980.
- Cut-off, Rain-water. E. E. Brott. No. 928,846; July 20; Sp. p. 4428; Gaz. vol. 144; p. 771.



*Alphabetical list of inventions—Continued.*

- Cut-off, Water-spout. G. Henkel. No. 938,665; Nov. 2; Sp. p. 487; Gaz. vol. 148; p. 75.
- Cutlery. A. Grah. No. 913,207; Feb. 23; Sp. p. 4501; Gaz. vol. 139; p. 811.
- Cutlery. J. Heissenberger. No. 927,532; July 13; Sp. p. 1705; Gaz. vol. 144; p. 304.
- Cutlery-grinder. H. E. Sweet. No. 909,707; Jan. 12; Sp. p. 2567; Gaz. vol. 138; p. 455.
- Cutlery, Metal handle for. W. B. Hatfield. No. 928,515; July 20; Sp. p. 3772; Gaz. vol. 144; p. 662.
- Cutlery-polisher. P. E. Shee. No. 936,371; Oct. 12; Sp. p. 1614; Gaz. vol. 147; p. 273.
- Cutter. *See* Alfalfa-cutter; Axle-cutter; Band-cutter; Bean-cutter; Billiard-cue-cutter; Biscuit-cutter; Bolt-cutter; Bread-cutter; Brush-cutter; Butt-cutter; Butter-cutter; Butter and lard cutter; Buttonhole-cutter; Can-cutter; Candy-cutter; Cane-cutter; Card-cutter; Cheese-cutter; Cigar-cutter; Cigar-wrapping-cutter; Circular-cutter; Clod-cutter; Coupon-cutter; Dough-cutter; Endless-cutter; Feed-cutter; Flue-cutter; Fodder-cutter; Fruit-cutter; Glass-cutter; Glass-tube cutter; Grain-cutter; Grain-feeder and band-cutter; Grass-cutter; Heel-lift cutter; Hinge-socket cutter; Iron-cutter; Line-cutter; Match-safe and cigar-cutter; Material-cutter; Meat-cutter; Molding-cutter; Mower-cutter; Paper-cutter; Pavement-cutter; Pipe-cutter; Potato-cutter; Potato-seed cutter; Potato-vine cutter; Rotary cutter; Sage-brush and weed cutter; Screw-cutter; Stalk-cutter; Stovepipe-cutter; Tapping-head or thread-cutter; Thread-cutter; Ticket-cutter; Tobacco-cutter; Tooth and blade cutter; Toothpick-machine cutter; Tube-cutter; Twine-cutter; Vegetable-cutter; Vegetable parer and cutter; Vegetable and pastry cutter; Vise and thread-cutter; Weed-cutter; Well-tube cutter; Wrench and thread-cutter.
- Cutter. M. S. Shapleigh. No. 917,497; Apr. 6; Sp. p. 1057; Gaz. vol. 141; p. 185.
- Cutter. E. W. Jones. No. 927,247; July 6; Sp. p. 1129; Gaz. vol. 144; p. 183.
- Cutter. F. A. Meier. No. 928,681; July 20; Sp. p. 4124; Gaz. vol. 144; p. 718.
- Cutter. D. D. Frothingham. No. 937,208; Oct. 19; Sp. p. 3342; Gaz. vol. 147; p. 581.
- Cutter and matcher head. S. Cline. No. 933,695; Sept. 7; Sp. p. 1497; Gaz. vol. 146; p. 226.
- Cutter and shredder. J. J. Farquer. No. 913,485; Feb. 23; Sp. p. 5059; Gaz. vol. 139; p. 904.
- Cutter-bar. B. F. McElwee. No. 909,646; Jan. 12; Sp. p. 2444; Gaz. vol. 138; p. 434.
- Cutter-bar. P. E. Sundquist. No. 915,247; Mar. 16; Sp. p. 3298; Gaz. vol. 140; p. 576.
- Cutter-bar. E. J. Wolfom. No. 941,400; Nov. 30; Sp. p. 6528; Gaz. vol. 148; p. 1109.
- Cutter-guard. A. Rasmussen. No. 909,116; Jan. 5; Sp. p. 1413; Gaz. vol. 138; p. 225.
- Cutter-guard. P. Foster. No. 935,481; Sept. 28; Sp. p. 5021; Gaz. vol. 146; p. 587.
- Cutter-head. G. Roussel. No. 909,025; Jan. 5; Sp. p. 1214; Gaz. vol. 138; p. 195.
- Cutter-head. G. Roussel. No. 909,122; Jan. 5; Sp. p. 1425; Gaz. vol. 138; p. 228.
- Cutter-head. E. F. Beugler. No. 909,741; Jan. 12; Sp. p. 2643; Gaz. vol. 138; p. 466.
- Cutter-head. E. F. Beugler. No. 916,527; Mar. 30; Sp. p. 5852; Gaz. vol. 140; p. 1050.
- Cutter-head. M. H. Dette. No. 920,549; May 4; Sp. p. 927; Gaz. vol. 142; p. 149.
- Cutter-head. J. R. Keene. No. 924,078; June 8; Sp. p. 2117; Gaz. vol. 143; p. 353.
- Cutter-head. O. L. Siscoe. No. 927,436; July 6; Sp. p. 1482; Gaz. vol. 144; p. 45.
- Cutter-head. J. F. Stedman. No. 932,345; Aug. 24; Sp. p. 5741; Gaz. vol. 145; p. 980.
- Cutter-head. E. Harrold. No. 943,540; Dec. 14; Sp. p. 3231; Gaz. vol. 149; p. 544.
- Cutter-head and bit. R. P. Birdwell. No. 930,929; Aug. 10; Sp. p. 2693; Gaz. vol. 145; p. 461.
- Cutter-head, Rotary. C. O. Porter. No. 940,940; Nov. 23; Sp. p. 5522; Gaz. vol. 148; p. 934.
- Cutter-heads, Truing device for truing shaped cutters in running. C. W. H. Blood. No. 944,010; Dec. 21; Sp. p. 4268; Gaz. vol. 149; p. 734.
- Cutter-sharpening device, Milling-. C. E. Klink and C. H. Herzog. No. 916,452; Mar. 30; Sp. p. 5671; Gaz. vol. 140; p. 1026.
- Cutter-thimble for grape and other picking. A. M. Southworth. No. 931,511; Aug. 17; Sp. p. 3975; Gaz. vol. 145; p. 685.
- Cutting and conveying mechanism. S. M. Langston. No. 922,918; May 25; Sp. p. 5827; Gaz. vol. 142; p. 1016.
- Cutting and punching machine. D. S. Stover. No. 930,433; Aug. 10; Sp. p. 1632; Gaz. vol. 145; p. 295.
- Cutting, beating, and pulverizing machine. C. M. Lauritzen. No. 939,276; Nov. 9; Sp. p. 1798; Gaz. vol. 148; p. 311.
- Cutting-blades, Holder for detached. A. W. Beaman. No. 943,645; Dec. 21; Sp. p. 3506; Gaz. vol. 149; p. 610.
- Cutting blanks. E. Z. Taylor. No. 935,826; Oct. 5; Sp. p. 492; Gaz. vol. 147; p. 70.
- Cutting implement. A. J. Callaghan. No. 916,993; Apr. 6; Sp. p. 54; Gaz. vol. 141; p. 14.
- Cutting-machine. L. E. Rice. No. 909,938; Jan. 19; Sp. p. 3041; Gaz. vol. 138; p. 563.
- Cutting-machine. R. A. Lancey. No. 919,363; Apr. 27; Sp. p. 5157; Gaz. vol. 141; p. 894.
- Cutting-machine. A. C. Bolton. No. 942,164; Dec. 7; Sp. p. 296; Gaz. vol. 149; p. 45.
- Cutting-machine. P. E. Jaccard. No. 944,266; Dec. 28; Sp. p. 4777; Gaz. vol. 149; p. 845.
- Cutting machine, Flange-. C. L. Finch. No. 912,238; Feb. 9; Sp. p. 2452; Gaz. vol. 139; p. 423.
- Cutting machine, Sheet-material-. A. F. Preston. No. 938,788; Nov. 2; Sp. p. 724; Gaz. vol. 148; p. 117.
- Cutting mechanism. T. W. Kienast. No. 933,712; Sept. 7; Sp. p. 1535; Gaz. vol. 146; p. 232.
- Cutting mechanism. W. S. Metcalfe. No. 942,209; Dec. 7; Sp. p. 388; Gaz. vol. 149; p. 60.
- Cutting-off apparatus. E. E. Meeker and C. W. Carr, Jr. No. 922,795; May 25; Sp. p. 5553; Gaz. vol. 142; p. 976.
- Cutting-off machine. L. D. Davis. No. 931,043; Aug. 17; Sp. p. 2985; Gaz. vol. 145; p. 526.
- Cutting, piercing, and marking pen-machine. W. J. Naphey. No. 914,600; Mar. 9; Sp. p. 1986; Gaz. vol. 140; p. 339.
- Cutting round and oval holes, Machine for. A. W. Waern and C. von Philip. No. 934,863; Sept. 21; Sp. p. 3794; Gaz. vol. 146; p. 658.
- Cutting, scoring, and creasing device. J. V. Reed. No. 937,331; Oct. 19; Sp. p. 3596; Gaz. vol. 147; p. 621.
- Cutting-shears. J. R. Seairight. No. 936,574; Oct. 12; Sp. p. 2057; Gaz. vol. 147; p. 340.
- Cutting-tool. A. E. Waller. No. 939,359; Nov. 9; Sp. p. 2017; Gaz. vol. 148; p. 341.
- Cutting-tool for appliqué-work. W. Vogel. No. 941,967; Nov. 30; Sp. p. 7723; Gaz. vol. 148; p. 1300.
- Cutting-tool for boring or drilling machines. J. F. Campbell. No. 918,003; Apr. 13; Sp. p. 2128; Gaz. vol. 141; p. 382.
- Cutting tool, Stone-. A. Barbagelat. No. 930,718; Aug. 10; Sp. p. 2248; Gaz. vol. 145; p. 391.
- Cyanid briquets, Making. J. Bueb. No. 912,538; Feb. 16; Sp. p. 3140; Gaz. vol. 139; p. 563.
- Cyanids and cyanamids, Production of. C. Bosch and A. Mittasch. No. 923,012; May 25; Sp. p. 6004; Gaz. vol. 142; p. 1046.
- Cycle. C. S. Johnston. No. 914,492; Mar. 9; Sp. p. 1762; Gaz. vol. 140; p. 302.
- Cycle. P. C. Jeppesen. No. 928,765; July 20; Sp. p. 4276; Gaz. vol. 144; p. 745.
- Cycle. J. E. Davis. No. 934,797; Sept. 21; Sp. p. 3672; Gaz. vol. 146; p. 637.
- Cycle ammonia power or refrigerating apparatus, Continuous-. J. Robson. No. 913,165; Feb. 23; Sp. p. 4416; Gaz. vol. 139; p. 797.
- Cycle and bicycle stand, Motor-. F. C. Hofer, W. H. Whitesell, and F. H. Bente. No. 940,250; Nov. 16; Sp. p. 3987; Gaz. vol. 148; p. 678.
- Cycle attachment, Motor-. H. T. Adams. No. 936,845; Oct. 12; Sp. p. 2595; Gaz. vol. 147; p. 433.
- Cycle attachment, Motor-. E. C. Abraham. No. 944,932; Dec. 28; Sp. p. 6249; Gaz. vol. 149; p. 1073.
- Cycle change-speed and back-pedaling brake mechanism. C. T. B. Sangster. No. 931,656; Aug. 17; Sp. p. 4265; Gaz. vol. 145; p. 728.
- Cycle changeable-speed gearing Motor-. C. H. Lang. No. 908,583; Jan. 5; Sp. p. 310; Gaz. vol. 138; p. 52.
- Cycle, &c., driving and braking mechanism. R. Walker. No. 913,332; Feb. 23; Sp. p. 4768; Gaz. vol. 139; p. 853.
- Cycle frame, Motor-. C. O. Hedstrom. No. 932,546; Aug. 31; Sp. p. 6169; Gaz. vol. 145; p. 1069.
- Cycle-handle. W. C. Mead. No. 909,633; Jan. 12; Sp. p. 2423; Gaz. vol. 138; p. 429.
- Cycle-lock. J. M. Barrett. No. 927,927; July 13; Sp. p. 2565; Gaz. vol. 144; p. 436.
- Cycle, Motor-. J. David. No. 926,390; June 29; Sp. p. 6905; Gaz. vol. 143; p. 1215.
- Cycle, Motor-. G. M. Hoeneker. No. 926,745; July 6; Sp. p. 80; Gaz. vol. 144; p. 12.
- Cycle, Motor-. J. E. Allen. No. 941,903; Nov. 30; Sp. p. 7599; Gaz. vol. 148; p. 1279.
- Cycle-saddle. T. Betney. No. 942,363; Dec. 7; Sp. p. 699; Gaz. vol. 149; p. 113.
- Cycle saddle, Motor-. F. Mesinger. No. 913,300; Feb. 23; Sp. p. 4691; Gaz. vol. 139; p. 842.
- Cycle-stand. H. T. Adams. No. 913,446; Feb. 23; Sp. p. 4986; Gaz. vol. 139; p. 892.
- Cycle-support. A. Linde, R. Weide, E. Fickler, and R. Rodewald. No. 938,065; Oct. 26; Sp. p. 5149; Gaz. vol. 147; p. 888.
- Cycle, Water-. W. Crepeau. No. 919,134; Apr. 20; Sp. p. 4495; Gaz. vol. 141; p. 785.
- Cycles and like vehicles, Toe-clip for the pedals of. H. Frankenburg. No. 934,064; Sept. 14; Sp. p. 2220; Gaz. vol. 146; p. 367.
- Cycles and other vehicles, Power-transmission mechanism for motor-. G. W. Sherman. No. 922,634; May 25; Sp. p. 5228; Gaz. vol. 142; p. 925.
- Cycles, bicycles, &c., Frame for motor-. E. H. Leet and J. E. Stoll. No. 944,795; Dec. 28; Sp. p. 5960; Gaz. vol. 149; p. 1027.
- Cycles, Detachable trailing carriage for. A. E. Abrahamson. No. 928,416; July 20; Sp. p. 3573; Gaz. vol. 144; p. 632.
- Cycles, &c., Rigid wallet for. R. Marguerettaz. No. 931,782; Aug. 24; Sp. p. 4580; Gaz. vol. 145; p. 794.
- Cyclometer for bicycles. A. Ruffin. No. 928,473; July 20; Sp. p. 3692; Gaz. vol. 144; p. 649.
- Cylinder and mortise lock, Combined. W. H. Thomas. No. 916,317; Mar. 16; Sp. p. 3428; Gaz. vol. 140; p. 598.
- Cylinder automatic spring-piston, Liquid, steam, or gas. W. M. Rumsey. No. 917,798; Apr. 13; Sp. p. 1676; Gaz. vol. 141; p. 310.
- Cylinder-head. F. L. Sessions. No. 933,789; Sept. 14; Sp. p. 1684; Gaz. vol. 146; p. 279.
- Cylinder horse, Glass-. L. A. Thornburg. No. 916,504; Mar. 30; Sp. p. 5799; Gaz. vol. 140; p. 1044.
- Cylinder horse, Glass-. E. V. Wurts. No. 916,518; Mar. 30; Sp. p. 5840; Gaz. vol. 140; p. 1048.
- Cylinder mold, Closed-. H. Brinker. No. 911,372; Feb. 2; Sp. p. 680; Gaz. vol. 139; p. 117.
- Cylinder-murling apparatus. W. L. Nahm and E. J. O'Brien, Jr. No. 934,335; Sept. 14; Sp. p. 2759; Gaz. vol. 146; p. 458.
- Cylinder relief and drainage device. F. C. Miller. No. 911,608; Feb. 9; Sp. p. 1134; Gaz. vol. 139; p. 219.

*Alphabetical list of inventions—Continued.*

- Cylinder-ring. W. A. Wehrman and J. C. Trueblood. No. 928,294; July 20; Sp. p. 3343; Gaz. vol. 144; p. 589.
- Cylinder-tooth. G. C. Jacobson and C. Olson. No. 918,857; Apr. 20; Sp. p. 3954; Gaz. vol. 141; p. 695.
- Cylinders, Treating. R. Morrill. No. 932,802; Aug. 31; Sp. p. 6731; Gaz. vol. 145; p. 1154.
- Dam. W. G. Fargo. No. 914,559; Mar. 9; Sp. p. 1906; Gaz. vol. 140; p. 324.
- Dam. N. L. Hall. No. 923,831; June 8; Sp. p. 1662; Gaz. vol. 143; p. 275.
- Dam and building the same. D. E. Moran, J. W. Doty, and E. S. Garrett. No. 923,985; June 8; Sp. p. 1958; Gaz. vol. 143; p. 325.
- Dam-crest, Automatic movable. H. Büchler. No. 914,789; Mar. 9; Sp. p. 2387; Gaz. vol. 140; p. 401.
- Dam for producing power and regulating the depth of water in streams. F. Fredeen. No. 935,749; Oct. 5; Sp. p. 267; Gaz. vol. 147; p. 43.
- Dam, High-service. R. Griswold. No. 929,667; Aug. 3; Sp. p. 46; Gaz. vol. 145; p. 10.
- Dams, dikes, &c., and in simultaneously compressing portions of ground adjacent thereto, Providing water-tight vertical layers in. A. Strauss. No. 922,207; May 18; Sp. p. 4352; Gaz. vol. 142; p. 757.
- Dampening-machine. J. W. Miller. No. 912,592; Feb. 16; Sp. p. 3243; Gaz. vol. 139; p. 581.
- Dampening-machine. G. H. Spansail. No. 944,517; Dec. 28; Sp. p. 5357; Gaz. vol. 149; p. 933.
- Damper. W. O. White. No. 921,194; May 11; Sp. p. 2247; Gaz. vol. 142; p. 395.
- Damper-actuator. J. W. Barton. No. 930,126; Aug. 3; Sp. p. 1067; Gaz. vol. 145; p. 172.
- Damper and flue-ventilator. A. R. Clark. No. 926,174; June 29; Sp. p. 6473; Gaz. vol. 143; p. 1146.
- Damper-controlling mechanism, Clock-controlled. R. P. Daubenspeck. No. 937,569; Oct. 19; Sp. p. 4123; Gaz. vol. 147; p. 701.
- Damper, Fireplace-. W. R. Champion. No. 926,048; June 22; Sp. p. 6186; Gaz. vol. 143; p. 1068.
- Damper, Fireplace-. D. B. Livesey. No. 926,266; June 29; Sp. p. 6667; Gaz. vol. 143; p. 1177.
- Damper for feeding air to combustion-chambers, Smoke-flue. G. I. Munson. No. 920,369; May 4; Sp. p. 565; Gaz. vol. 142; p. 91.
- Damper for furnace or stovepipes. R. Rouse, Jr. No. 940,942; Nov. 23; Sp. p. 5525; Gaz. vol. 148; p. 935.
- Damper for furnaces. C. G. Atwater. No. 936,288; Oct. 12; Sp. p. 1413; Gaz. vol. 147; p. 245.
- Damper-operating device, Automatic. F. H. Müller. No. 944,808; Dec. 28; Sp. p. 5995; Gaz. vol. 149; p. 1032.
- Damper-regulator. W. M. Fulton. No. 909,176; Jan. 12; Sp. p. 1537; Gaz. vol. 138; p. 278.
- Damper-regulator. H. Walker. No. 912,213; Feb. 9; Sp. p. 2407; Gaz. vol. 139; p. 415.
- Damper-regulator. T. E. McKenna. No. 922,614; May 25; Sp. p. 5186; Gaz. vol. 142; p. 918.
- Damper-regulator. G. Steele. No. 931,095; Aug. 17; Sp. p. 3096; Gaz. vol. 145; p. 543.
- Damper-regulator. R. P. Mitchell and R. V. Brawley. No. 935,390; Sept. 28; Sp. p. 4857; Gaz. vol. 146; p. 859.
- Damper-regulator. F. C. Guphill. No. 943,931; Dec. 21; Sp. p. 4086; Gaz. vol. 149; p. 708.
- Damper-regulator, Automatic. G. Furuholm. No. 923,259; June 1; Sp. p. 304; Gaz. vol. 143; p. 48.
- Damper-regulator, Automatic. N. C. Locke. No. 924,559; June 8; Sp. p. 3142; Gaz. vol. 143; p. 513.
- Damper-regulator, Thermostatic. R. E. Dewey. No. 926,391; June 29; Sp. p. 6906; Gaz. vol. 143; p. 1216.
- Damper, Stovepipe-. J. M. Tribur. No. 920,694; May 4; Sp. p. 1223; Gaz. vol. 142; p. 197.
- Dandelion-digger. B. Schneider. No. 917,802; Apr. 13; Sp. p. 1681; Gaz. vol. 141; p. 312.
- Dandruff-removing device. J. S. Thurman. No. 918,929; Apr. 20; Sp. p. 4102; Gaz. vol. 141; p. 719.
- Danger-zone signal for turrets. F. W. Wood. No. 933,218; Sept. 7; Sp. p. 421; Gaz. vol. 146; p. 65.
- Darner, Stocking-. R. T. Thomas. No. 944,704; Dec. 28; Sp. p. 5758; Gaz. vol. 149; p. 997.
- Darning outfit. S. S. Neely. No. 920,620; May 4; Sp. p. 1064; Gaz. vol. 142; p. 173.
- Dart. G. W. Smith. No. 933,131; Sept. 7; Sp. p. 194; Gaz. vol. 146; p. 33.
- Dash-pot. O. B. Blankenship and H. B. Sherwood. No. 920,251; May 4; Sp. p. 333; Gaz. vol. 142; p. 52.
- Dash-pot. F. Phillips. No. 929,008; July 27; Sp. p. 4771; Gaz. vol. 144; p. 853.
- Dashboard-brace. F. H. Hosay. No. 941,711; Nov. 30; Sp. p. 7189; Gaz. vol. 148; p. 1212.
- Dashboard-safe for automobiles and other vehicles. D. Barnard. No. 937,278; Oct. 19; Sp. p. 3498; Gaz. vol. 147; p. 60.
- Dating and delivering apparatus, Ticket. E. W. Bell. No. 927,020; July 6; Sp. p. 654; Gaz. vol. 144; p. 107.
- Dating-machine. B. B. Conrad. No. 928,740; July 20; Sp. p. 4234; Gaz. vol. 144; p. 737.
- Dauber. R. L. McMurran. No. 912,719; Feb. 16; Sp. p. 3541; Gaz. vol. 139; p. 627.
- Dauber and polisher attachment for receptacles. H. J. Lyon. No. 922,496; May 25; Sp. p. 4929; Gaz. vol. 142; p. 878.
- Davenport. M. L. Brilliant. No. 924,884; June 15; Sp. p. 3842; Gaz. vol. 143; p. 656.
- Davenport. F. E. Ferguson and C. A. Knoche. No. 944,023; Dec. 21; Sp. p. 4289; Gaz. vol. 149; p. 739.
- Davenport or couch, Folding. J. M. Kiefer. No. 910,545; Jan. 26; Sp. p. 4328; Gaz. vol. 138; p. 794.
- Davit for hoisting and lowering boats. A. Welir. No. 938,447; Oct. 26; Sp. p. 5993; Gaz. vol. 147; p. 1015.
- Davit for hoisting and lowering boats. A. Welin. No. 938,448; Oct. 26; Sp. p. 5994; Gaz. vol. 147; p. 1015.
- Davit-lock. W. J. Ryan and L. Tanning. No. 935,413; Sept. 28; Sp. p. 4597; Gaz. vol. 146; p. 866.
- Davit, Ship's. E. W. Myers. No. 915,464; Mar. 16; Sp. p. 3723; Gaz. vol. 140; p. 646.
- Dead-centers, Device for overcoming. A. H. Gurley. No. 919,855; Apr. 27; Sp. p. 6219; Gaz. vol. 141; p. 1061.
- Dead-centers, Device for overcoming. L. F. Dahl. No. 929,919; Aug. 3; Sp. p. 635; Gaz. vol. 145; p. 101.
- Deck-plate, &c. W. H. Durkee. No. 917,721; Apr. 6; Sp. p. 1477; Gaz. vol. 141; p. 259.
- Decoration, Interior. H. C. Leslie. No. 920,593; May 4; Sp. p. 1015; Gaz. vol. 142; p. 165.
- Decorative schemes, Method of and device for exhibiting. J. N. Wiggins. No. 917,393; Apr. 6; Sp. p. 879; Gaz. vol. 141; p. 151.
- Decorticating fibrous plants, Transportable apparatus for. E. A. J. Duchemin. No. 922,865; May 25; Sp. p. 5710; Gaz. vol. 142; p. 999.
- Decorticator. W. L. Weber. No. 930,511; Aug. 10; Sp. p. 1793; Gaz. vol. 145; p. 322.
- Decoy. F. M. Oliver and C. B. Westcott. No. 934,342; Sept. 14; Sp. p. 2774; Gaz. vol. 146; p. 461.
- Defibrating-machine. J. S. Gillies. No. 936,995; Oct. 12; Sp. p. 2879; Gaz. vol. 147; p. 481.
- Defeculating non-metallic amorphous bodies. E. G. Acheson. No. 931,832; Aug. 24; Sp. p. 4672; Gaz. vol. 145; p. 810.
- Deformed bar. F. V. McMullin. No. 911,062; Feb. 2; Sp. p. 80; Gaz. vol. 139; p. 15.
- Delivering measured quantities of commodities, Machine for. W. W. Read. No. 917,359; Apr. 6; Sp. p. 817; Gaz. vol. 141; p. 140.
- Delivering measured quantities of material, Apparatus for. W. Rulison. No. 936,170; Oct. 5; Sp. p. 1201; Gaz. vol. 147; p. 181.
- Delivery apparatus. E. Hallam. No. 925,175; June 15; Sp. p. 4422; Gaz. vol. 143; p. 755.
- Delivery apparatus. H. B. Murray, Jr. No. 934,202; Sept. 14; Sp. p. 2513; Gaz. vol. 146; p. 414.
- Delivery apparatus. E. T. von Knopke. No. 938,062; Oct. 26; Sp. p. 5145; Gaz. vol. 147; p. 883.
- Delivery apparatus. A. Goldenetz. No. 943,970; Dec. 21; Sp. p. 4162; Gaz. vol. 149; p. 721.
- Delivery mechanism. A. J. Ford. No. 914,561; Mar. 9; Sp. p. 1909; Gaz. vol. 140; p. 325.
- Delivery mechanism. W. Scott. No. 917,901; Apr. 13; Sp. p. 1898; Gaz. vol. 141; p. 345.
- Delivery mechanism. W. Scott. No. 919,387; Apr. 27; Sp. p. 5205; Gaz. vol. 141; p. 903.
- Delivery system and apparatus therefor. E. A. Morse. No. 909,925; Jan. 19; Sp. p. 3020; Gaz. vol. 138; p. 559.
- Densimeter. A. Müntzing. No. 913,420; Feb. 23; Sp. p. 4937; Gaz. vol. 139; p. 883.
- Density-determining apparatus. W. D. Mount. No. 923,560; June 1; Sp. p. 994; Gaz. vol. 143; p. 153.
- Dentador or sanitary cuspidor. A. R. Mitchell. No. 925,587; June 22; Sp. p. 5213; Gaz. vol. 143; p. 917.
- Dental and like instruments, Rack or tray for. W. L. Smith. No. 935,420; Sept. 28; Sp. p. 4912; Gaz. vol. 146; p. 868.
- Dental and like tools, Rack for. W. L. Smith. No. 935,419; Sept. 28; Sp. p. 4911; Gaz. vol. 146; p. 868.
- Dental apparatus. A. Jameson. No. 936,539; Oct. 12; Sp. p. 1991; Gaz. vol. 147; p. 328.
- Dental apparatus, Rotary. M. Wentworth and W. J. Garbutt. No. 937,126; Oct. 19; Sp. p. 3160; Gaz. vol. 147; p. 555.
- Dental appliance. R. Bradbury. No. 920,013; Apr. 27; Sp. p. 6518; Gaz. vol. 141; p. 1112.
- Dental appliance. B. Dysart. No. 924,543; June 8; Sp. p. 3116; Gaz. vol. 143; p. 508.
- Dental appliance. J. Gartrell. No. 927,850; July 13; Sp. p. 2397; Gaz. vol. 144; p. 410.
- Dental articulator. G. B. Snow. No. 912,748; Feb. 16; Sp. p. 3622; Gaz. vol. 139; p. 637.
- Dental brush. J. H. Abbott. No. 912,051; Feb. 9; Sp. p. 2118; Gaz. vol. 139; p. 365.
- Dental cabinet. H. E. Bown. No. 917,995; Apr. 13; Sp. p. 2112; Gaz. vol. 141; p. 379.
- Dental castings, Appliance for making. A. P. Lee. No. 920,483; May 4; Sp. p. 781; Gaz. vol. 142; p. 127.
- Dental chair. F. E. Case. No. 910,357; Jan. 19; Sp. p. 3935; Gaz. vol. 138; p. 708.
- Dental clamp. H. S. Miller. No. 926,583; June 29; Sp. p. 7243; Gaz. vol. 143; p. 1280.
- Dental cuspidor. M. N. Callender. No. 920,265; May 4; Sp. p. 386; Gaz. vol. 142; p. 58.
- Dental engine. M. Kelly. No. 919,593; Apr. 27; Sp. p. 5668; Gaz. vol. 141; p. 974.
- Dental engine. O. H. and A. F. Pieper. No. 930,082; Aug. 3; Sp. p. 962; Gaz. vol. 145; p. 156.
- Dental-engine-handpiece swivel. A. W. Browne. No. 941,612; Nov. 30; Sp. p. 6960; Gaz. vol. 148; p. 1177.
- Dental fillings, Making patterns for casting hollow. E. P. Binford. No. 944,254; Dec. 28; Sp. p. 4751; Gaz. vol. 149; p. 840.
- Dental floss-holder. J. P. Locke. No. 911,664; Feb. 9; Sp. p. 1279; Gaz. vol. 139; p. 239.
- Dental floss-holder. T. A. Tubbs. No. 922,824; May 25; Sp. p. 5628; Gaz. vol. 142; p. 956.
- Dental-floss spool. A. J. Holmes. No. 944,992; Dec. 28; Sp. p. 6366; Gaz. vol. 149; p. 1093.
- Dental hammer, Automatic. R. P. Lyle. No. 927,420; July 6; Sp. p. 1441; Gaz. vol. 144; p. 239.
- Dental handpiece. R. M. Mayes. No. 911,510; Feb. 2; Sp. p. 921; Gaz. vol. 139; p. 161.
- Dental implement. C. C. Murray. No. 909,643; Jan. 12; Sp. p. 2438; Gaz. vol. 138; p. 433.



*Alphabetical list of inventions—Continued.*

- Dental injector, Root-canal-filling. P. R. Skinner. No. 921,015; May 11; Sp. p. 1872; Gaz. vol. 142; p. 332.
- Dental-inlay-casting machine. E. M. Fredericks. No. 920,561; May 4; Sp. p. 949; Gaz. vol. 142; p. 154.
- Dental inlay-holder. B. F. Copp. No. 939,476; Nov. 9; Sp. p. 2293; Gaz. vol. 148; p. 380.
- Dental instrument. R. H. Gallagher and R. E. Dutcher. No. 916,856; Mar. 30; Sp. p. 6454; Gaz. vol. 140; p. 1153.
- Dental instrument. W. H. Manning. No. 936,732; Oct. 12; Sp. p. 2377; Gaz. vol. 147; p. 396.
- Dental instrument. E. L. Chott. No. 938,640; Nov. 2; Sp. p. 432; Gaz. vol. 148; p. 66.
- Dental instrument. S. Quigley. No. 940,058; Nov. 16; Sp. p. 3570; Gaz. vol. 148; p. 611.
- Dental instrument. O. Neugebauer. No. 940,351; Nov. 16; Sp. p. 4227; Gaz. vol. 148; p. 713.
- Dental instrument. W. B. Miller. No. 943,884; Dec. 21; Sp. p. 3976; Gaz. vol. 149; p. 690.
- Dental-instrument tray. J. Brun. No. 926,977; July 6; Sp. p. 562; Gaz. vol. 144; p. 92.
- Dental matrix-clamp. S. S. Carleton. No. 912,810; Feb. 16; Sp. p. 3736; Gaz. vol. 139; p. 657.
- Dental mirror and attachment therefor. A. J. Kleberg. No. 911,659; Feb. 9; Sp. p. 1272; Gaz. vol. 139; p. 238.
- Dental obtunder, Atomizing. W. A. Cook and G. S. Hadley. No. 911,646; Feb. 9; Sp. p. 1245; Gaz. vol. 139; p. 234.
- Dental or surgical chair. G. Holtz. No. 936,131; Oct. 5; Sp. p. 1120; Gaz. vol. 147; p. 170.
- Dental plate. E. Telle. No. 909,038; Jan. 5; Sp. p. 1233; Gaz. vol. 138; p. 198.
- Dental plate. D. D. Hyman. No. 941,149; Nov. 23; Sp. p. 5975; Gaz. vol. 148; p. 1005.
- Dental plate and manufacturing the same. E. Telle. No. 908,626; Jan. 5; Sp. p. 410; Gaz. vol. 138; p. 66.
- Dental-plate-casting apparatus. F. W. Tracy. No. 926,037; June 22; Sp. p. 6167; Gaz. vol. 143; p. 1065.
- Dental plates, Attaching teeth to. E. Telle. No. 908,627; Jan. 5; Sp. p. 412; Gaz. vol. 138; p. 66.
- Dental plugger. W. Weichselbaum. No. 915,137; Mar. 16; Sp. p. 3081; Gaz. vol. 140; p. 541.
- Dental plugger. W. G. Church. No. 916,387; Mar. 23; Sp. p. 5515; Gaz. vol. 140; p. 979.
- Dental plugger. C. F. Tully. No. 944,115; Dec. 21; Sp. p. 4480; Gaz. vol. 149; p. 770.
- Dental press. F. O. Jacques, Jr. No. 936,633; Oct. 12; Sp. p. 2189; Gaz. vol. 147; p. 362.
- Dental spittoon. C. E. Ritchey. No. 942,931; Dec. 14; Sp. p. 1924; Gaz. vol. 149; p. 335.
- Dental-silk receptacle. H. Emerson. No. 927,844; July 13; Sp. p. 2384; Gaz. vol. 144; p. 408.
- Dental stool or the like. W. H. Reynolds. No. 909,223; Jan. 12; Sp. p. 1626; Gaz. vol. 138; p. 292.
- Dental suction-plate. C. R. Powers. No. 912,026; Feb. 9; Sp. p. 2052; Gaz. vol. 139; p. 357.
- Dental swaging apparatus. H. B. Zende. No. 910,631; Jan. 26; Sp. p. 4521; Gaz. vol. 138; p. 824.
- Dental syringe. H. F. Hamilton. No. 919,717; Apr. 27; Sp. p. 5913; Gaz. vol. 141; p. 1015.
- Dental tool. T. Mahoney. No. 933,718; Sept. 7; Sp. p. 1548; Gaz. vol. 146; p. 235.
- Dental tooth-clamp. G. A. Harper. No. 939,834; Nov. 9; Sp. p. 3048; Gaz. vol. 148; p. 503.
- Dental tooth-regulating appliance. E. H. Angle. No. 930,717; Aug. 10; Sp. p. 2245; Gaz. vol. 145; p. 391.
- Dentistry. M. R. Koons. No. 941,718; Nov. 30; Sp. p. 7201; Gaz. vol. 148; p. 1214.
- Dentist's casting appliance. N. H. Smith. No. 932,508; Aug. 31; Sp. p. 6092; Gaz. vol. 145; p. 1056.
- Deodorizer. C. B. Blood. No. 931,029; Aug. 17; Sp. p. 2944; Gaz. vol. 145; p. 521.
- Deodorizer-container. L. R. Rich. No. 917,151; Apr. 6; Sp. p. 397; Gaz. vol. 141; p. 69.
- Deodorizing and disinfecting device. A. G. Walter and B. M. Inman. No. 915,000; Mar. 9; Sp. p. 2765; Gaz. vol. 140; p. 467.
- Depliegmatator. J. MacKay. No. 911,311; Feb. 2; Sp. p. 566; Gaz. vol. 139; p. 97.
- Deposit and collection receptacle. J. Hartman. No. 908,770; Jan. 5; Sp. p. 719; Gaz. vol. 138; p. 112.
- Deposit and collection receptacle. H. P. Turner. No. 923,912; June 8; Sp. p. 1809; Gaz. vol. 143; p. 301.
- Deposit and collection receptacle. C. F. Bryant. No. 933,883; Sept. 14; Sp. p. 1875; Gaz. vol. 146; p. 310.
- Depositing-machine. E. Hérisse. No. 923,175; June 1; Sp. p. 121; Gaz. vol. 143; p. 19.
- Depth-gage. L. B. Benton. No. 931,253; Aug. 17; Sp. p. 3443; Gaz. vol. 145; p. 598.
- Depth-recorder. J. W. Gillie. No. 928,191; July 13; Sp. p. 3082; Gaz. vol. 144; p. 524.
- Derailer. R. Hamilton. No. 911,021; Jan. 26; Sp. p. 5270; Gaz. vol. 138; p. 947.
- Derailer. J. T. Farrell. No. 940,139; Nov. 16; Sp. p. 3752; Gaz. vol. 148; p. 639.
- Derailing device. D. L. Hackleman. No. 943,932; Dec. 21; Sp. p. 4088; Gaz. vol. 149; p. 708.
- Derailing device, Safety. F. Pellissier. No. 910,847; Jan. 26; Sp. p. 4937; Gaz. vol. 138; p. 891.
- Derailing-switch. D. I. Hullett. No. 925,774; June 22; Sp. p. 5637; Gaz. vol. 143; p. 978.
- Dermal-treatment apparatus. H. Behm and C. Rempt. No. 920,814; May 4; Sp. p. 1460; Gaz. vol. 142; p. 236.
- Derrick. G. W. Lyen. No. 919,047; Apr. 20; Sp. p. 4337; Gaz. vol. 141; p. 757.
- Derrick. C. Smith. No. 921,295; May 11; Sp. p. 2457; Gaz. vol. 142; p. 428.
- Derrick. F. Hunt. No. 926,191; June 29; Sp. p. 6515; Gaz. vol. 143; p. 1152.
- Derrick-bracing means. F. E. Foster. No. 937,299; Oct. 19; Sp. p. 3537; Gaz. vol. 147; p. 611.
- Derrick, Extension self-locking portable. W. A. MacKenzie. No. 910,210; Jan. 19; Sp. p. 3599; Gaz. vol. 138; p. 654.
- Derrick, Oil-well. T. A. Neill. No. 933,386; Sept. 7; Sp. p. 804; Gaz. vol. 146; p. 124.
- Derrick pile-driver. G. T. Forsyth. No. 914,403; Mar. 9; Sp. p. 1603; Gaz. vol. 140; p. 273.
- Derrick-platform and turn-table. J. W. Page. No. 931,703; Aug. 17; Sp. p. 4387; Gaz. vol. 145; p. 746.
- Derrick, Portable. W. C. Booz. (Reissue.) No. 12,915; Feb. 9; Sp. p. 2545; Gaz. vol. 138; p. 437.
- Derrick, Portable. C. H. Roberts. No. 927,680; July 13; Sp. p. 2037; Gaz. vol. 144; p. 354.
- Derrick, Portable field-. A. N. Hadley. (Reissue.) No. 12,960; May 25; Sp. p. 6280; Gaz. vol. 142; p. 1086.
- Derrick, Sectional. W. E. Carmony. No. 926,925; July 6; Sp. p. 459; Gaz. vol. 144; p. 74.
- Desiccating and pulverizing apparatus. V. W. Mason, Jr., and G. I. Rochelle. No. 933,090; Sept. 7; Sp. p. 109; Gaz. vol. 146; p. 19.
- Desiccating apparatus. J. McCreedy and D. M. A. G. Hawes. No. 915,303; Mar. 16; Sp. p. 3405; Gaz. vol. 140; p. 594.
- Desiccating apparatus. O. Paucksch. No. 924,271; June 8; Sp. p. 2573; Gaz. vol. 143; p. 419.
- Desiccating apparatus. J. McCreedy and D. M. A. G. Hawes. No. 924,561; June 8; Sp. p. 3146; Gaz. vol. 143; p. 514.
- Desiccating apparatus. J. Roeh. No. 927,109; July 6; Sp. p. 971; Gaz. vol. 144; p. 158.
- Desiccating-machine. E. R. Fillmore. No. 939,126; Nov. 2; Sp. p. 1434; Gaz. vol. 148; p. 234.
- Design-making device. A. L. Tolman and F. L. Taylor. No. 914,322; Mar. 2; Sp. p. 1422; Gaz. vol. 140; p. 219.
- Designs and producing the same, Pattern-plate for reproducing. J. Jacobson. No. 926,656; June 29; Sp. p. 7396; Gaz. vol. 143; p. 1304.
- Designs or ornamented and color effects on fabrics, Producing. J. Hübner. No. 917,298; Apr. 6; Sp. p. 703; Gaz. vol. 141; p. 119.
- Designating, recording, and registering mechanism. E. J. Brandt. No. 941,005; Nov. 23; Sp. p. 5654; Gaz. vol. 148; p. 956.
- Desk. R. T. Jackson, Jr. No. 931,311; Aug. 17; Sp. p. 3590; Gaz. vol. 145; p. 618.
- Desk. N. E. Fealy. No. 939,125; Nov. 2; Sp. p. 1431; Gaz. vol. 148; p. 233.
- Desk and chair, Combined. C. G. Betherum. No. 928,929; July 27; Sp. p. 4613; Gaz. vol. 144; p. 827.
- Desk and chair, Combined school. H. J. Siems. No. 937,103; Oct. 19; Sp. p. 3112; Gaz. vol. 147; p. 547.
- Desk and like attachment, School-. G. H. True. No. 929,519; July 27; Sp. p. 5818; Gaz. vol. 144; p. 1022.
- Desk and seat, Combined school. A. G. Cox. No. 923,814; June 8; Sp. p. 1627; Gaz. vol. 143; p. 269.
- Desk attachment. M. L. Walters. No. 911,097; Feb. 2; Sp. p. 143; Gaz. vol. 139; p. 27.
- Desk attachment, School-. A. S. Baylor and C. W. Knouff. No. 927,480; July 13; Sp. p. 1592; Gaz. vol. 144; p. 287.
- Desk, Convertible office-. J. G. S. Dey. No. 928,185; July 13; Sp. p. 3067; Gaz. vol. 144; p. 522.
- Desk, Folding. J. Spoljar. No. 924,395; June 8; Sp. p. 2826; Gaz. vol. 143; p. 460.
- Desk, Folding writing-. C. Mohr. No. 928,614; July 20; Sp. p. 3982; Gaz. vol. 144; p. 695.
- Desk, Knockdown. J. W. Campbell. No. 943,236; Dec. 14; Sp. p. 2592; Gaz. vol. 149; p. 439.
- Desk, Portable writing and drawing. T. E. Stark. No. 942,148; Dec. 7; Sp. p. 269; Gaz. vol. 149; p. 41.
- Desk, School-. L. H. Campbell. No. 910,041; Jan. 19; Sp. p. 3241; Gaz. vol. 138; p. 598.
- Desk, School-. J. M. Taylor. No. 915,903; Mar. 23; Sp. p. 4624; Gaz. vol. 140; p. 820.
- Desk-stand. W. W. Dean. No. 915,077; Mar. 16; Sp. p. 2915; Gaz. vol. 140; p. 520.
- Desk-table. C. H. Haberkorn. No. 912,672; Feb. 16; Sp. p. 3399; Gaz. vol. 139; p. 610.
- Desk-table. H. W. Bertram. No. 919,682; Apr. 27; Sp. p. 5847; Gaz. vol. 141; p. 1003.
- Desk, Table-. C. Birely. No. 915,066; Mar. 16; Sp. p. 2893; Gaz. vol. 140; p. 516.
- Detachable bracket. D. M. Ireland. No. 942,564; Dec. 7; Sp. p. 1119; Gaz. vol. 149; p. 182.
- Detachable coupling. F. G. Fairall. No. 913,484; Feb. 23; Sp. p. 5057; Gaz. vol. 139; p. 904.
- Detachable handle. C. B. Post. No. 913,764; Mar. 2; Sp. p. 183; Gaz. vol. 140; p. 30.
- Detachable roller and bracket for same. A. Kaufman. No. 925,105; June 15; Sp. p. 4292; Gaz. vol. 143; p. 731.
- Detector: See Cloth thin-place detector.
- Detergent. A. Kayser. No. 924,792; June 15; Sp. p. 3655; Gaz. vol. 143; p. 626.
- Detergent. J. Pearson. No. 938,332; Oct. 26; Sp. p. 5729; Gaz. vol. 147; p. 976.
- Detergent compound. A. Kayser. No. 923,850; June 8; Sp. p. 1693; Gaz. vol. 143; p. 281.
- Detinning. H. M. Fernberger and W. W. Murray. No. 913,275; Feb. 23; Sp. p. 4645; Gaz. vol. 139; p. 833.
- Detinning. F. von Kugelgen and G. O. Seward. No. 915,029; Mar. 9; Sp. p. 2819; Gaz. vol. 140; p. 477.
- Detinning. K. Goldschmidt and J. Weber. (Reissue.) No. 12,956; May 11; Sp. p. 3221; Gaz. vol. 142; p. 551.

*Alphabetical list of inventions—Continued.*

- Detonator. C. A. Woodbury. No. 939,371; Nov. 9; Sp. p. 2044; Gaz. vol. 148; p. 345.  
 Detonator, Electric. G. A. Allen. No. 938,203; Oct. 26; Sp. p. 5457; Gaz. vol. 147; p. 932.  
 Developer, Daylight. A. Hamburger and H. Imhof. No. 925,338; June 15; Sp. p. 4714; Gaz. vol. 143; p. 805.  
 Developing apparatus. F. F. Church. No. 917,002; Apr. 6; Sp. p. 75; Gaz. vol. 141; p. 17.  
 Developing apparatus, Daylight. J. W. Meek. No. 927,155; July 6; Sp. p. 943; Gaz. vol. 144; p. 153.  
 Developing-tank. J. G. Lavender. No. 923,669; June 1; Sp. p. 1229; Gaz. vol. 143; p. 190.  
 Dial. L. H. Starkey. No. 919,262; Apr. 20; Sp. p. 4924; Gaz. vol. 141; p. 825.  
 Diamonds from settings, Tool for removing. O. M. Farrand. No. 943,530; Dec. 14; Sp. p. 3209; Gaz. vol. 149; p. 540.  
 Diaper-fastener, Infant's. W. M. Conrad. No. 927,120; July 6; Sp. p. 883; Gaz. vol. 144; p. 142.  
 Dichlorethylene, Making. P. Askenasy and M. Mugdan. No. 924,304; June 8; Sp. p. 2646; Gaz. vol. 143; p. 430.  
 Dictograph. W. F. H. Germer. No. 927,230; July 6; Sp. p. 1095; Gaz. vol. 144; p. 178.  
 Die: See Beam-notching die; Brick-pressing die; Comb stamping and cutting die; Fence-tie-forming die; Forming-die; Tapping-die; Thread-cutting die.  
 Die. D. W. Dodson. No. 911,956; Feb. 9; Sp. p. 1869; Gaz. vol. 139; p. 335.  
 Die. W. H. Grissom. No. 928,256; July 20; Sp. p. 3249; Gaz. vol. 144; p. 576.  
 Die. F. H. Hotchkiss. No. 939,505; Nov. 9; Sp. p. 2340; Gaz. vol. 148; p. 388.  
 Die. L. Swank. No. 940,214; Nov. 16; Sp. p. 3920; Gaz. vol. 148; p. 666.  
 Die. L. Swank. No. 940,215; Nov. 16; Sp. p. 3922; Gaz. vol. 148; p. 666.  
 Die and die mechanism. F. H. Richards. No. 919,228; Apr. 20; Sp. p. 4763; Gaz. vol. 141; p. 814.  
 Die and die-operating mechanism. F. H. Richards. No. 919,243; Apr. 20; Sp. p. 4867; Gaz. vol. 141; p. 819.  
 Die and die-support. W. D. Coolidge. No. 935,463; Sept. 28; Sp. p. 4995; Gaz. vol. 146; p. 882.  
 Die-block, Interchangeable sectional. C. A. Olson and G. W. Hayden. No. 919,936; Apr. 27; Sp. p. 6367; Gaz. vol. 141; p. 1088.  
 Die-cutting machine. D. P. Robinson. No. 941,953; Nov. 30; Sp. p. 7688; Gaz. vol. 148; p. 1295.  
 Die-cutting machine. D. P. Robinson. No. 942,146; Dec. 7; Sp. p. 264; Gaz. vol. 149; p. 40.  
 Die for pressing wheels and like shapes. A. K. Andrews. No. 937,749; Oct. 26; Sp. p. 4481; Gaz. vol. 147; p. 778.  
 Die for shaping composition plates. J. P. Wright. No. 910,257; Jan. 19; Sp. p. 3727; Gaz. vol. 138; p. 673.  
 Die-head, Automatic. F. L. Brown and I. W. Sprink. No. 909,748; Jan. 12; Sp. p. 2653; Gaz. vol. 138; p. 468.  
 Die-holder. G. E. Witherell and E. R. Seward. No. 915,144; Mar. 16; Sp. p. 3093; Gaz. vol. 140; p. 543.  
 Die-maker's filing-tool. G. Schrade and E. J. Conklin. No. 925,954; June 22; Sp. p. 6002; Gaz. vol. 143; p. 1037.  
 Die-plate, Multiple. W. R. Gwin. No. 927,406; July 6; Sp. p. 1411; Gaz. vol. 144; p. 234.  
 Die-press. C. P. Bascom. No. 931,006; Aug. 10; Sp. p. 2887; Gaz. vol. 145; p. 485.  
 Die-press. G. B. Myers. No. 937,460; Oct. 19; Sp. p. 3908; Gaz. vol. 147; p. 664.  
 Die-retainer. L. G. Fischer. No. 917,575; Apr. 6; Sp. p. 1195; Gaz. vol. 141; p. 209.  
 Die-stock. R. H. Burke. No. 933,884; Sept. 14; Sp. p. 1878; Gaz. vol. 146; p. 310.  
 Die-stock. F. E. and F. W. Wells. No. 939,648; Nov. 9; Sp. p. 2656; Gaz. vol. 148; p. 439.  
 Die-stock, Adjustable. I. W. Nonneman. No. 914,503; Mar. 9; Sp. p. 1781; Gaz. vol. 140; p. 306.  
 Die-stock, Elastic. T. A. Cain. No. 925,289; June 15; Sp. p. 4630; Gaz. vol. 143; p. 791.  
 Die-stock, Geared. H. W. Oster. No. 925,220; June 15; Sp. p. 4519; Gaz. vol. 143; p. 771.  
 Die-stripper. J. H. Ames. No. 938,940; Nov. 2; Sp. p. 1073; Gaz. vol. 148; p. 170.  
 Die-supporting block and swager. W. T. Lyon. No. 919,901; Apr. 27; Sp. p. 6304; Gaz. vol. 141; p. 1077.  
 Dies, Adjusting device for cutting-. G. H. Haslop. No. 924,778; June 15; Sp. p. 3622; Gaz. vol. 143; p. 621.  
 Dies, Forming. E. D. Boyce. No. 939,468; Nov. 9; Sp. p. 2276; Gaz. vol. 148; p. 377.  
 Dies, Making. J. M. Lynch. No. 922,926; May 25; Sp. p. 5845; Gaz. vol. 142; p. 1019.  
 Differential mechanism. B. W. Brockett. No. 915,827; Mar. 23; Sp. p. 4483; Gaz. vol. 140; p. 795.  
 Differential mechanism. D. E. Ross. No. 941,101; Nov. 23; Sp. p. 5855; Gaz. vol. 148; p. 988.  
 Diffusion apparatus. W. Bock. No. 923,760; June 1; Sp. p. 1425; Gaz. vol. 143; p. 221.  
 Digester. T. J. Hutchinson. No. 914,349; Mar. 2; Sp. p. 1475; Gaz. vol. 140; p. 229.  
 Digger: See Beet-digger; Dandelion-digger; Grass-digger; Post-hole digger; Potato-digger; Set-digger; Trench or sewer digger; Weed-digger.  
 Digging implement. J. R. Baylis. No. 913,350; Feb. 23; Sp. p. 4795; Gaz. vol. 139; p. 859.  
 Digging, transplanting plants, and pulling weeds, Implement for. F. L. Whitney. No. 944,393; Dec. 28; Sp. p. 5060; Gaz. vol. 149; p. 890.  
 Digitalis extract. R. Tambach. No. 943,578; Dec. 14; Sp. p. 3298; Gaz. vol. 149; p. 556.  
 Dike-building apparatus and process. J. W. Sykes. No. 941,051; Nov. 23; Sp. p. 5754; Gaz. vol. 148; p. 971.  
 Dikes, Anticipatory riprapi-. D. Neale. No. 932,565; Aug. 31; Sp. p. 6205; Gaz. vol. 145; p. 1075.  
 Dilator. J. W. Shults. No. 923,303; June 1; Sp. p. 450; Gaz. vol. 143; p. 63.  
 Dining-table, Self-serving. A. S. Williams. No. 944,931; Dec. 28; Sp. p. 6248; Gaz. vol. 149; p. 1073.  
 Dining-table, Self-waiting. L. E. Johnston. No. 938,242; Oct. 29; Sp. p. 5535; Gaz. vol. 147; p. 943.  
 Dimittrolycerin explosive and making. A. Mikolajczak. No. 910,936; Jan. 26; Sp. p. 5104; Gaz. vol. 138; p. 920.  
 Diphenyl-ortho-oxalic esters, Making. H. Schneider. No. 942,674; Dec. 7; Sp. p. 1329; Gaz. vol. 149; p. 219.  
 Dipper and server. C. C. Williams. No. 923,229; June 1; Sp. p. 224; Gaz. vol. 143; p. 37.  
 Dipper-handle socket. G. W. Knapp. No. 914,352; Mar. 2; Sp. p. 1482; Gaz. vol. 140; p. 230.  
 Dipping-machine. W. B. Crocker. No. 914,803; Mar. 9; Sp. p. 2413; Gaz. vol. 140; p. 405.  
 Dipping-tank. J. A. Viktor and F. J. John. No. 933,935; Sept. 14; Sp. p. 1979; Gaz. vol. 146; p. 326.  
 Direction and distance locator. W. H. Dolby. No. 942,718; Dec. 7; Sp. p. 1420; Gaz. vol. 149; p. 233.  
 Directory and index, Combined. D. J. Williams. No. 933,281; Sept. 7; Sp. p. 574; Gaz. vol. 146; p. 88.  
 Directory-board. C. A. Johnson. No. 937,308; Oct. 19; Sp. p. 3550; Gaz. vol. 147; p. 614.  
 Directory for commercial buildings and apartment-houses. E. V. Stoddard. No. 935,704; Oct. 5; Sp. p. 178; Gaz. vol. 147; p. 28.  
 Dirt-remover. J. F. Workman. No. 932,227; Aug. 24; Sp. p. 5528; Gaz. vol. 145; p. 941.  
 Disappearing stand. G. F. Oldham and G. E. Kirk. No. 911,821; Feb. 9; Sp. p. 1562; Gaz. vol. 139; p. 291.  
 Disappearing table. G. H. Witthaus. No. 928,726; July 20; Sp. p. 4198; Gaz. vol. 144; p. 731.  
 Discount-machine. C. A. Longwell. No. 914,056; Mar. 2; Sp. p. 866; Gaz. vol. 140; p. 134.  
 Diseases, Apparatus for magnetic treatment of. R. S. Clymer. No. 910,643; Jan. 26; Sp. p. 4550; Gaz. vol. 138; p. 828.  
 Diseases, Device for treating cutaneous. F. Rightmire. No. 943,894; Dec. 21; Sp. p. 4000; Gaz. vol. 149; p. 694.  
 Dish. W. C. Anderson. No. 908,723; Jan. 5; Sp. p. 627; Gaz. vol. 138; p. 97.  
 Dish, Butter-. F. Schille. No. 931,497; Aug. 17; Sp. p. 3952; Gaz. vol. 145; p. 681.  
 Dish-carrier. H. T. and A. D. Blake. No. 924,133; June 8; Sp. p. 2226; Gaz. vol. 143; p. 371.  
 Dish-drainer. T. B. Garretson. No. 934,721; Sept. 21; Sp. p. 3518; Gaz. vol. 146; p. 613.  
 Dish-mop. C. A. Mason. No. 908,791; Jan. 5; Sp. p. 752; Gaz. vol. 138; p. 118.  
 Dish mop and scraper. W. D. and R. W. Fletcher. No. 918,033; Apr. 13; Sp. p. 2190; Gaz. vol. 141; p. 393.  
 Dish or plate. A. Lust. No. 922,495; May 25; Sp. p. 4928; Gaz. vol. 142; p. 878.  
 Dish-pan and drain, Combined. A. Fike. No. 917,278; Apr. 6; Sp. p. 660; Gaz. vol. 141; p. 112.  
 Dish pan and drainer, Combined. H. D. Leeking. No. 943,750; Dec. 21; Sp. p. 3709; Gaz. vol. 149; p. 645.  
 Dish, Vegetable-. L. Schlesinger. No. 943,162; Dec. 14; Sp. p. 2441; Gaz. vol. 149; p. 415.  
 Dish-washer. C. Carstens. No. 922,455; May 25; Sp. p. 4847; Gaz. vol. 142; p. 865.  
 Dish-washer. J. W. Gallup. No. 925,892; June 22; Sp. p. 5890; Gaz. vol. 143; p. 1017.  
 Dish-washer. J. E. Walter. No. 927,905; July 13; Sp. p. 2515; Gaz. vol. 144; p. 429.  
 Dish-washer. L. H. Desjardins. No. 937,363; Oct. 19; Sp. p. 3665; Gaz. vol. 147; p. 631.  
 Dish-washer. M. L. Crouch. No. 937,926; Oct. 26; Sp. p. 4856; Gaz. vol. 147; p. 838.  
 Dish-washer. S. A. Latta. No. 938,002; Oct. 26; Sp. p. 5007; Gaz. vol. 147; p. 863.  
 Dish-washing apparatus. E. Aldrich. No. 938,622; Nov. 2; Sp. p. 399; Gaz. vol. 148; p. 60.  
 Dish-washing device. M. Froese. No. 935,146; Sept. 28; Sp. p. 4375; Gaz. vol. 146; p. 781.  
 Dish-washing machine. C. W. Jaycox. No. 909,604; Jan. 12; Sp. p. 2362; Gaz. vol. 138; p. 419.  
 Dish-washing machine. O. S. Lee. No. 911,052; Feb. 2; Sp. p. 59; Gaz. vol. 139; p. 12.  
 Dish-washing machine. H. D. Thomas. No. 923,215; June 1; Sp. p. 196; Gaz. vol. 143; p. 33.  
 Dish-washing machine. J. J. Holley. No. 926,744; July 6; Sp. p. 79; Gaz. vol. 144; p. 12.  
 Dish-washing machine. R. R. Parry. No. 927,590; July 13; Sp. p. 1816; Gaz. vol. 144; p. 323.  
 Dish-washing machine. B. F. Singer and T. Clark. No. 933,591; Sept. 7; Sp. p. 1288; Gaz. vol. 146; p. 191.  
 Dish-washing machine. A. L. Pearce. No. 934,346; Sept. 14; Sp. p. 2778; Gaz. vol. 146; p. 462.  
 Dish-washing machine. M. Curran. No. 936,237; Oct. 5; Sp. p. 1311; Gaz. vol. 147; p. 201.  
 Dish-washing machine. M. H. Hauberg. No. 937,937; Oct. 26; Sp. p. 4876; Gaz. vol. 147; p. 842.  
 Dish-washing machine. H. Müry. No. 942,179; Dec. 7; Sp. p. 330; Gaz. vol. 149; p. 50.  
 Dish-washing machine. W. J. Paul. No. 942,926; Dec. 14; Sp. p. 1915; Gaz. vol. 149; p. 334.



*Alphabetical list of inventions—Continued.*

- Dish-washing machine. R. A. Henry. No. 944,329; Dec. 28; Sp. p. 4921; Gaz. vol. 149; p. 867.
- Disinfectant. H. Schneider. No. 934,844; Sept. 21; Sp. p. 3762; Gaz. vol. 146; p. 653.
- Disinfectant apparatus. F. D. Raforth. No. 926,961; July 6; Sp. p. 532; Gaz. vol. 144; p. 87.
- Disinfectant-holder. G. W. Llewellyn. No. 917,779; Apr. 13; Sp. p. 1644; Gaz. vol. 141; p. 305.
- Disinfectant-holder. P. Duenwald. No. 927,132; July 6; Sp. p. 903; Gaz. vol. 144; p. 146.
- Disinfectant, Manufacture of. A. Brick. No. 929,383; July 27; Sp. p. 5587; Gaz. vol. 144; p. 980.
- Disinfecting and grease-removing apparatus, Combined. J. S. Thurman. No. 918,931; Apr. 20; Sp. p. 4105; Gaz. vol. 141; p. 720.
- Disinfecting apparatus. W. H. Rose. No. 911,331; Feb. 2; Sp. p. 606; Gaz. vol. 139; p. 104.
- Disinfecting apparatus. V. A. Williams. No. 914,544; Mar. 9; Sp. p. 1878; Gaz. vol. 140; p. 320.
- Disinfecting apparatus. J. R. Van Dyne. No. 931,817; Aug. 24; Sp. p. 4648; Gaz. vol. 145; p. 805.
- Disinfecting apparatus. P. J. Walsh. No. 940,097; Nov. 16; Sp. p. 3668; Gaz. vol. 148; p. 624.
- Disinfecting apparatus. W. M. Byer. No. 940,921; Nov. 23; Sp. p. 5471; Gaz. vol. 148; p. 928.
- Disinfecting composition. A. W. Lyda, W. W. Cubbison, and E. C. Robinson. No. 929,963; Aug. 3; Sp. p. 722; Gaz. vol. 145; p. 115.
- Disinfecting device. S. A. Shipp and L. Lund. No. 915,629; Mar. 16; Sp. p. 4071; Gaz. vol. 140; p. 703.
- Disinfecting device. G. W. and C. W. Allen. No. 920,711; May 4; Sp. p. 1276; Gaz. vol. 142; p. 203.
- Disinfectors. F. J. Gaus. No. 916,143; Mar. 23; Sp. p. 5074; Gaz. vol. 140; p. 898.
- Disinfectors and lamp, Combined. B. F. Corwin. No. 924,433; June 8; Sp. p. 2887; Gaz. vol. 143; p. 472.
- Disinfectors, Interior container for drip-. Z. G. Sholes. No. 908,508; Jan. 5; Sp. p. 153; Gaz. vol. 138; p. 27.
- Disintegrating-cylinder. J. Dixon. No. 927,955; July 13; Sp. p. 2626; Gaz. vol. 144; p. 446.
- Disk-cleaner. W. H. Gay. No. 924,053; June 8; Sp. p. 2073; Gaz. vol. 143; p. 345.
- Disk drill. C. H. Pelton. No. 911,259; Feb. 2; Sp. p. 470; Gaz. vol. 139; p. 81.
- Disk drill. S. E. Davis. No. 939,812; Nov. 9; Sp. p. 3008; Gaz. vol. 148; p. 495.
- Disk holder or rest. P. Lier. No. 911,507; Feb. 2; Sp. p. 917; Gaz. vol. 139; p. 160.
- Disk-plate dress. C. N. McLaughlin. No. 934,457; Sept. 21; Sp. p. 3009; Gaz. vol. 146; p. 524.
- Disk tongue device. J. C. Roath. No. 940,194; Nov. 16; Sp. p. 3881; Gaz. vol. 148; p. 658.
- Disks, Cutting. D. P. Robinson. No. 915,043; Mar. 9; Sp. p. 2850; Gaz. vol. 140; p. 483.
- Disks, Means for piling. H. D. Hodge. No. 944,364; Dec. 28; Sp. p. 4999; Gaz. vol. 149; p. 880.
- Disks, rings, &c., Machine for punching. B. J. Lindgren. No. 912,007; Feb. 9; Sp. p. 2018; Gaz. vol. 139; p. 351.
- Dispensing apparatus. E. Davis. No. 911,946; Feb. 9; Sp. p. 1798; Gaz. vol. 139; p. 331.
- Dispensing apparatus. P. C. Nestor. No. 912,603; Feb. 16; Sp. p. 3267; Gaz. vol. 139; p. 586.
- Dispensing apparatus. G. A. Donnelly. No. 920,931; May 11; Sp. p. 1716; Gaz. vol. 142; p. 305.
- Dispensing apparatus. F. W. Williamson. No. 928,230; July 13; Sp. p. 3152; Gaz. vol. 144; p. 537.
- Dispensing apparatus. C. E. Gorton. No. 929,127; July 27; Sp. p. 5023; Gaz. vol. 144; p. 893.
- Dispensing apparatus. B. M. Martin. No. 932,153; Aug. 24; Sp. p. 5372; Gaz. vol. 145; p. 916.
- Dispensing apparatus. R. G. Marsh. No. 942,273; Dec. 7; Sp. p. 520; Gaz. vol. 149; p. 82.
- Dispensing apparatus. L. J. Moser. No. 944,458; Dec. 28; Sp. p. 5208; Gaz. vol. 149; p. 912.
- Dispensing-can, Non-refillable. S. Strauss. No. 922,062; May 18; Sp. p. 4052; Gaz. vol. 142; p. 709.
- Dispensing-container. W. A. Kirkpatrick. No. 910,826; Jan. 26; Sp. p. 4906; Gaz. vol. 138; p. 885.
- Dispensing-container. O. L. Parmenter. No. 936,803; Oct. 12; Sp. p. 2514; Gaz. vol. 147; p. 419.
- Dispensing-machine. P. C. Petersen. No. 935,401; Sept. 28; Sp. p. 4874; Gaz. vol. 146; p. 862.
- Dispensing-machine. C. M. Jewell. No. 936,906; Oct. 12; Sp. p. 2718; Gaz. vol. 147; p. 453.
- Dispensing-receptacle. R. R. Ricketts. No. 916,783; Mar. 30; Sp. p. 6316; Gaz. vol. 140; p. 1129.
- Dispensing-receptacle. K. C. Jopling. No. 934,182; Sept. 14; Sp. p. 2472; Gaz. vol. 146; p. 407.
- Dispensing-receptacle. H. A. Tellerson. No. 936,186; Oct. 5; Sp. p. 1231; Gaz. vol. 147; p. 186.
- Dispensing-receptacle. H. A. Tellerson. No. 936,187; Oct. 5; Sp. p. 1232; Gaz. vol. 147; p. 186.
- Dispensing-tank. M. Zwirman. No. 944,472; Dec. 28; Sp. p. 5258; Gaz. vol. 149; p. 917.
- Display and cover attachment for barrels, casks, or other receptacles, Sanitary. L. F. Kaltwasser. No. 920,579; May 4; Sp. p. 980; Gaz. vol. 142; p. 160.
- Display and packing case, Garment. F. C. Boden. No. 935,958; Oct. 5; Sp. p. 763; Gaz. vol. 147; p. 113.
- Display apparatus. W. F. Allert. No. 910,767; Jan. 26; Sp. p. 4788; Gaz. vol. 138; p. 866.
- Display apparatus. J. H. Waggett. No. 915,392; Mar. 16; Sp. p. 3585; Gaz. vol. 140; p. 624.
- Display apparatus. E. F. Cannon. No. 920,538; May 4; Sp. p. 903; Gaz. vol. 142; p. 145.
- Display apparatus. E. F. Cannon. No. 920,539; May 4; Sp. p. 904; Gaz. vol. 142; p. 146.
- Display apparatus. I. J. Owen. No. 924,370; June 8; Sp. p. 2778; Gaz. vol. 143; p. 452.
- Display apparatus. J. M. Kaufman and F. A. Wilske. No. 928,980; July 27; Sp. p. 4708; Gaz. vol. 144; p. 845.
- Display apparatus. H. M. Webster. No. 936,497; Oct. 12; Sp. p. 1903; Gaz. vol. 147; p. 314.
- Display apparatus. J. Gaynor. No. 938,571; Nov. 2; Sp. p. 295; Gaz. vol. 148; p. 43.
- Display apparatus. S. Newman and H. R. Bothwell. No. 944,969; Dec. 28; Sp. p. 6317; Gaz. vol. 149; p. 1085.
- Display apparatus, Sample-. H. O. Johnson. No. 921,713; May 18; Sp. p. 3339; Gaz. vol. 142; p. 595.
- Display-bin. F. F. Wear. No. 922,738; May 25; Sp. p. 5443; Gaz. vol. 142; p. 957.
- Display-bin. A. H. Plumer. No. 939,546; Nov. 9; Sp. p. 2428; Gaz. vol. 148; p. 403.
- Display-box. M. W. Just. No. 915,967; Mar. 23; Sp. p. 4748; Gaz. vol. 140; p. 841.
- Display-box. F. G. Merritt. No. 922,498; May 25; Sp. p. 4933; Gaz. vol. 142; p. 879.
- Display-box. A. and J. Eichhorn. No. 939,234; Nov. 9; Sp. p. 1708; Gaz. vol. 148; p. 296.
- Display box and tray. E. M. Lewis. No. 939,721; Nov. 9; Sp. p. 2806; Gaz. vol. 148; p. 464.
- Display-box for stores. J. B. and E. W. Macon. No. 929,457; July 27; Sp. p. 5704; Gaz. vol. 144; p. 1001.
- Display box, Paperie-. C. H. Weaver. No. 910,753; Jan. 26; Sp. p. 4766; Gaz. vol. 138; p. 862.
- Display-box, Sheet-metal. F. Westerbeck. No. 925,062; June 15; Sp. p. 4206; Gaz. vol. 143; p. 716.
- Display-boxes, Rack for holding. O. F. Bracht and G. E. Bernard. No. 930,725; Aug. 10; Sp. p. 2262; Gaz. vol. 145; p. 393.
- Display-cabinet. F. S. Woldridge. No. 927,625; July 13; Sp. p. 1903; Gaz. vol. 144; p. 337.
- Display-cabinet. L. W. Welch. No. 942,022; Nov. 30; Sp. p. 7820; Gaz. vol. 148; p. 1317.
- Display-cabinet. N. Holland and A. J. Kidd. No. 943,877; Dec. 21; Sp. p. 3960; Gaz. vol. 149; p. 688.
- Display-cabinet, Rotary. D. Duncan. No. 937,206; Oct. 19; Sp. p. 3356; Gaz. vol. 147; p. 580.
- Display cabinet, Seed-. M. F. Jones and C. A. Snow. No. 926,809; July 6; Sp. p. 204; Gaz. vol. 144; p. 34.
- Display-can, Sheet-metal. J. Xavier. No. 922,831; May 25; Sp. p. 5639; Gaz. vol. 142; p. 988.
- Display-can, Sheet-metal. J. Xavier. No. 922,832; May 25; Sp. p. 5642; Gaz. vol. 142; p. 989.
- Display-can, Sheet-metal. J. Xavier. No. 938,736; Nov. 2; Sp. p. 618; Gaz. vol. 148; p. 97.
- Display-case. N. N. Bendz. No. 910,351; Jan. 19; Sp. p. 3926; Gaz. vol. 138; p. 706.
- Display-case. A. H. Simon. No. 926,298; June 29; Sp. p. 6728; Gaz. vol. 143; p. 1186.
- Display-case and valise, Combined. C. Billburg. No. 933,874; Sept. 14; Sp. p. 1865; Gaz. vol. 146; p. 308.
- Display-case, Sectional foldable. R. E. Brown and C. G. Wyatt. No. 929,074; July 27; Sp. p. 4906; Gaz. vol. 144; p. 875.
- Display device. W. Marks. No. 940,263; Nov. 16; Sp. p. 4012; Gaz. vol. 148; p. 683.
- Display device, Garment-. W. Mehler. No. 924,171; June 8; Sp. p. 2352; Gaz. vol. 143; p. 385.
- Display device, Heat-operated. J. R. Keller. No. 939,705; Nov. 9; Sp. p. 2776; Gaz. vol. 148; p. 458.
- Display device, Revolving card-. G. R. Jaqua. No. 934,815; Sept. 21; Sp. p. 3698; Gaz. vol. 146; p. 643.
- Display-figures, Artificial limb for. L. Vulkan. No. 924,521; June 8; Sp. p. 3056; Gaz. vol. 143; p. 501.
- Display-hanger. T. H. Blackmall. No. 929,380; July 27; Sp. p. 5584; Gaz. vol. 144; p. 979.
- Display-holder. B. Rosenberg. No. 928,281; July 20; Sp. p. 3316; Gaz. vol. 144; p. 586.
- Display-holder. J. Brauchli. No. 939,942; Nov. 9; Sp. p. 3284; Gaz. vol. 148; p. 541.
- Display means, Rotary sign-. J. Lawson. No. 928,990; July 27; Sp. p. 4724; Gaz. vol. 144; p. 848.
- Display or show case. W. Freeman. No. 935,100; Sept. 28; Sp. p. 4284; Gaz. vol. 146; p. 766.
- Display-rack. H. B. Cloud. No. 908,548; Jan. 5; Sp. p. 243; Gaz. vol. 138; p. 41.
- Display-rack. J. F. Riedy. No. 909,336; Jan. 12; Sp. p. 1842; Gaz. vol. 138; p. 330.
- Display-rack. H. M. Greener. No. 910,057; Jan. 19; Sp. p. 3272; Gaz. vol. 138; p. 603.
- Display-rack. L. H. Woodcock. No. 910,105; Jan. 19; Sp. p. 3366; Gaz. vol. 138; p. 618.
- Display-rack. T. A. Thompson. No. 915,906; Mar. 23; Sp. p. 4629; Gaz. vol. 140; p. 821.
- Display-rack. W. L. Nutting. No. 918,080; Apr. 13; Sp. p. 2280; Gaz. vol. 141; p. 409.
- Display-rack. L. M. Morse. No. 918,186; Apr. 13; Sp. p. 2477; Gaz. vol. 141; p. 443.
- Display-rack. W. M. Wilmore. No. 918,937; Apr. 20; Sp. p. 4125; Gaz. vol. 141; p. 722.
- Display-rack. W. R. Hayes. No. 919,574; Apr. 27; Sp. p. 5629; Gaz. vol. 141; p. 967.
- Display-rack. J. G. Huffman. No. 919,725; Apr. 27; Sp. p. 5930; Gaz. vol. 141; p. 1017.
- Display-rack. E. A. Cummings. No. 920,829; May 4; Sp. p. 1489; Gaz. vol. 142; p. 241.

*Alphabetical list of inventions—Continued.*

- Display-rack. J. Danziger. No. 921,956; May 18; Sp. p. 3845; Gaz. vol. 142; p. 673.  
 Display-rack. J. W. Moon. No. 925,011; June 15; Sp. p. 4114; Gaz. vol. 143; p. 700.  
 Display-rack. J. D. Walsb. No. 928,292; July 20; Sp. p. 3341; Gaz. vol. 144; p. 589.  
 Display-rack. O. L. Smith. No. 929,509; July 27; Sp. p. 5800; Gaz. vol. 144; p. 1018.  
 Display-rack. H. J. Schlegel. No. 929,714; Aug. 3; Sp. p. 156; Gaz. vol. 145; p. 28.  
 Display-rack. J. E. Taylor. No. 929,897; Aug. 3; Sp. p. 595; Gaz. vol. 145; p. 93.  
 Display-rack. J. Romshe. No. 933,851; Sept. 14; Sp. p. 1818; Gaz. vol. 146; p. 300.  
 Display-rack. F. E. Bewyer. No. 936,276; Oct. 5; Sp. p. 1389; Gaz. vol. 147; p. 215.  
 Display-rack. J. H. Best. No. 936,855; Oct. 12; Sp. p. 2617; Gaz. vol. 147; p. 436.  
 Display-rack. J. A. Nickerson. No. 942,456; Dec. 7; Sp. p. 896; Gaz. vol. 149; p. 145.  
 Display-rack. F. Jaques. No. 943,250; Dec. 14; Sp. p. 2620; Gaz. vol. 149; p. 444.  
 Display-rack and storage-frame. E. E. Baker. No. 938,363; Oct. 26; Sp. p. 5811; Gaz. vol. 147; p. 986.  
 Display-rack attachment. E. B. Weston. No. 918,238; Apr. 13; Sp. p. 2607; Gaz. vol. 141; p. 462.  
 Display-rack, Folding. R. E. McKay. No. 928,533; July 20; Sp. p. 3812; Gaz. vol. 144; p. 668.  
 Display-rack for curtains, &c. F. Hansen. No. 932,387; Aug. 24; Sp. p. 5811; Gaz. vol. 145; p. 993.  
 Display-rack for garments and the like. H. E. Reyher. No. 923,705; June 1; Sp. p. 1314; Gaz. vol. 143; p. 203.  
 Display-rack for rugs. G. W. and P. Shindlebower. No. 916,496; Mar. 30; Sp. p. 5783; Gaz. vol. 140; p. 1041.  
 Display-rack, Fruit and vegetable. C. C. Hart. No. 940,807; Nov. 23; Sp. p. 5249; Gaz. vol. 148; p. 891.  
 Display-rack, Garment-. B. Siegel. No. 920,197; May 4; Sp. p. 217; Gaz. vol. 142; p. 33.  
 Display-rack, Hat-. A. E. Bezolier. No. 943,805; Dec. 21; Sp. p. 3817; Gaz. vol. 149; p. 663.  
 Display-rack, Inclosed. W. K. Williams. No. 941,483; Nov. 30; Sp. p. 6707; Gaz. vol. 148; p. 1136.  
 Display-rack, Knife-. C. P. Catlin. No. 926,852; July 6; Sp. p. 318; Gaz. vol. 144; p. 51.  
 Display-rack or stand. C. E. Osburn and O. R. Kuntz. No. 929,625; July 27; Sp. p. 6034; Gaz. vol. 144; p. 1056.  
 Display-rack panel, Swinging-. L. Feldmann, Jr. No. 943,821; Dec. 21; Sp. p. 3846; Gaz. vol. 149; p. 669.  
 Display-rack, Rotatable. H. Krasne. No. 937,155; Oct. 19; Sp. p. 3229; Gaz. vol. 147; p. 565.  
 Display-rack, Rug-. G. J. Kepke. No. 920,962; May 11; Sp. p. 1772; Gaz. vol. 142; p. 315.  
 Display-receptacle. E. W. Carnes. No. 921,673; May 18; Sp. p. 3273; Gaz. vol. 142; p. 582.  
 Display sheets or curtains, Frame for. L. C. Davidson. No. 941,622; Nov. 30; Sp. p. 6983; Gaz. vol. 148; p. 1181.  
 Display-stand. G. R. Ford. No. 910,659; Jan. 26; Sp. p. 4578; Gaz. vol. 138; p. 832.  
 Display-stand. E. M. Graham. No. 911,871; Feb. 9; Sp. p. 1653; Gaz. vol. 139; p. 306.  
 Display-stand. M. W. Benjamin. No. 917,705; Apr. 6; Sp. p. 1445; Gaz. vol. 141; p. 254.  
 Display-stand. J. Gullong. No. 923,647; June 1; Sp. p. 1194; Gaz. vol. 143; p. 183.  
 Display-stand. J. Towle. No. 933,500; Sept. 7; Sp. p. 1119; Gaz. vol. 146; p. 160.  
 Display-stand. M. Friedman. No. 937,366; Oct. 19; Sp. p. 3670; Gaz. vol. 147; p. 632.  
 Display-stand. A. Borgzinner. No. 937,671; Oct. 19; Sp. p. 4304; Gaz. vol. 147; p. 734.  
 Display-stand, Jeweler's. M. Jerseman and L. Wagner. No. 926,657; June 29; Sp. p. 7397; Gaz. vol. 143; p. 1305.  
 Display-stand, Necktie-. W. A. Swann. No. 924,291; June 8; Sp. p. 2615; Gaz. vol. 143; p. 425.  
 Display-tray for merchandise, Foldable. F. R. Faulk and T. Bratt. No. 925,888; June 22; Sp. p. 5880; Gaz. vol. 143; p. 1016.  
 Displaying advertisements, Apparatus for. E. and W. Rhodes, J. G. Hirst, S. Parker, and J. M. Tavernor. No. 930,797; Aug. 10; Sp. p. 2406; Gaz. vol. 145; p. 417.  
 Displaying and cooling cabinet, Vegetable. J. D. Rush. No. 924,500; June 8; Sp. p. 3022; Gaz. vol. 143; p. 493.  
 Displaying apparatus, Sample-. G. E. Fariss. No. 935,302; Sept. 28; Sp. p. 4675; Gaz. vol. 146; p. 830.  
 Displaying cover for receptacles, Sample-. R. M. Cleveland. No. 921,591; May 11; Sp. p. 3055; Gaz. vol. 142; p. 585.  
 Displaying device, Boot, shoe, &c. A. Glover. No. 919,158; Apr. 20; Sp. p. 4533; Gaz. vol. 141; p. 793.  
 Displaying device, Sign-. W. S. Ryan. No. 926,682; June 29; Sp. p. 7444; Gaz. vol. 143; p. 1313.  
 Displaying lace, Cabinet for. W. J. Snyder. No. 929,889; Aug. 3; Sp. p. 577; Gaz. vol. 145; p. 91.  
 Distance-finder. J. G. R. Lillendahl. No. 913,526; Feb. 23; Sp. p. 5152; Gaz. vol. 139; p. 918.  
 Distant register. W. H. Muzzy. No. 928,268; July 20; Sp. p. 3275; Gaz. vol. 144; p. 581.  
 Distillate-burner. C. H. Schoff. No. 922,522; May 25; Sp. p. 4987; Gaz. vol. 142; p. 887.  
 Distillation, condensation, and rectification of liquids, Apparatus for the fractional. V. Slavicek. No. 926,216; June 29; Sp. p. 6576; Gaz. vol. 143; p. 1161.  
 Distillation-furnace. W. M. Johnson. No. 920,473; May 4; Sp. p. 767; Gaz. vol. 142; p. 124.  
 Distillation of bituminous coal or similar carbonaceous substances. T. Parker. No. 941,352; Nov. 23; Sp. p. 6399; Gaz. vol. 148; p. 1070.  
 Distillation, Treating wood during. H. W. Doughty. No. 930,274; Aug. 3; Sp. p. 1322; Gaz. vol. 145; p. 218.  
 Distilling alcohols and other volatile liquids. A. G. Waterhouse. No. 939,361; Nov. 9; Sp. p. 2019; Gaz. vol. 148; p. 341.  
 Distilling apparatus. M. B. Blouke. No. 919,685; Apr. 27; Sp. p. 5853; Gaz. vol. 141; p. 1005.  
 Distilling apparatus, Water-. W. H. Shephard. No. 935,932; Oct. 5; Sp. p. 712; Gaz. vol. 147; p. 104.  
 Distilling apparatus, Wood-. H. Coplovich. No. 918,421; Apr. 13; Sp. p. 2952; Gaz. vol. 141; p. 520.  
 Distilling gases and vapors, Retort for. P. A. Emanuel. No. 922,407; May 18; Sp. p. 4741; Gaz. vol. 142; p. 822.  
 Distilling mercury from gold amalgam, Apparatus for. W. E. Bennett. No. 937,356; Oct. 19; Sp. p. 3655; Gaz. vol. 147; p. 629.  
 Distilling wood-alcohol and other products, Apparatus for. B. R. and M. J. Lyster. No. 941,641; Nov. 30; Sp. p. 7016; Gaz. vol. 148; p. 1187.  
 Distributer. R. Jardine. No. 912,683; Feb. 16; Sp. p. 3440; Gaz. vol. 139; p. 614.  
 Distributer. W. H. Sanders. No. 913,169; Feb. 23; Sp. p. 4429; Gaz. vol. 139; p. 799.  
 Distributer. J. W. Le Gore. No. 940,538; Nov. 16; Sp. p. 4650; Gaz. vol. 148; p. 775.  
 Distributer and timer device, Combined. T. M. Mueller and A. Jacob. No. 928,209; July 13; Sp. p. 3115; Gaz. vol. 144; p. 530.  
 Distributer for pulverized substances. S. W. Farnham. No. 924,330; June 8; Sp. p. 2699; Gaz. vol. 143; p. 439.  
 Distributing apparatus. F. Stebler. No. 943,799; Dec. 21; Sp. p. 3803; Gaz. vol. 149; p. 662.  
 Distributing-machines, Apparatus for the control and the registration of the operations performed by. G. I. F. Soulage. No. 941,892; Nov. 30; Sp. p. 7574; Gaz. vol. 148; p. 1275.  
 Distributing-receptacle. W. R. Comings. No. 915,742; Mar. 23; Sp. p. 4328; Gaz. vol. 140; p. 769.  
 Distribution system. W. S. Bralley. No. 916,988; Apr. 6; Sp. p. 44; Gaz. vol. 141; p. 12.  
 Distribution system. F. W. Peek, Jr. No. 919,633; Apr. 27; Sp. p. 5740; Gaz. vol. 141; p. 988.  
 Distribution system. B. Frankenfeld. No. 921,392; May 11; Sp. p. 2682; Gaz. vol. 142; p. 460.  
 Distribution system. J. L. Hall and A. F. Knight. No. 921,693; May 18; Sp. p. 3305; Gaz. vol. 142; p. 588.  
 Distribution system. P. Rose. No. 928,219; July 13; Sp. p. 3131; Gaz. vol. 144; p. 534.  
 Distribution system. H. L. Van Valkenburg. No. 932,072; Aug. 24; Sp. p. 5211; Gaz. vol. 145; p. 889.  
 Distribution system. H. L. Van Valkenburg. No. 933,211; Sept. 7; Sp. p. 402; Gaz. vol. 146; p. 63.  
 Ditch-digging machine. J. Embleton. No. 912,937; Feb. 16; Sp. p. 3946; Gaz. vol. 139; p. 695.  
 Ditch-digging machine. E. Jeschke. No. 939,598; Nov. 9; Sp. p. 2558; Gaz. vol. 148; p. 420.  
 Ditch-filling mechanism. W. Dalton and J. H. Clements, Jr. No. 918,016; Apr. 13; Sp. p. 2150; Gaz. vol. 141; p. 387.  
 Ditcher and road-grader. J. D. Martin. No. 910,836; Jan. 26; Sp. p. 4922; Gaz. vol. 138; p. 888.  
 Ditching and earth-distributing mechanism. J. W. Sykes. No. 941,050; Nov. 23; Sp. p. 5751; Gaz. vol. 148; p. 971.  
 Ditching and grading machine. W. I. Short. No. 935,240; Sept. 28; Sp. p. 4555; Gaz. vol. 146; p. 810.  
 Ditching and grading machines, Deflector for. W. H. Morenus. No. 923,064; May 25; Sp. p. 6125; Gaz. vol. 142; p. 1063.  
 Ditching-machine. D. J. Wren. No. 910,256; Jan. 19; Sp. p. 3723; Gaz. vol. 138; p. 673.  
 Ditching-machine. T. Linga. No. 910,552; Jan. 26; Sp. p. 4344; Gaz. vol. 138; p. 798.  
 Ditching-machine. A. McDonald, P. A. Anderson, and J. O'Riley. No. 911,747; Feb. 9; Sp. p. 1429; Gaz. vol. 139; p. 266.  
 Ditching-machine. A. I. Hovland. No. 915,963; Mar. 23; Sp. p. 4731; Gaz. vol. 140; p. 839.  
 Ditching-machine. E. J. Schramke. No. 917,669; Apr. 6; Sp. p. 1371; Gaz. vol. 141; p. 242.  
 Ditching-machine. C. F. White. No. 917,821; Apr. 13; Sp. p. 1725; Gaz. vol. 141; p. 318.  
 Ditching-machine. B. M. Rolph. No. 918,373; Apr. 13; Sp. p. 2855; Gaz. vol. 141; p. 506.  
 Ditching-machine. E. D. Young. No. 918,635; Apr. 20; Sp. p. 3443; Gaz. vol. 141; p. 621.  
 Ditching-machine. R. V. Sutherland. No. 921,178; May 11; Sp. p. 2209; Gaz. vol. 142; p. 389.  
 Ditching-machine. R. V. Sutherland. No. 921,179; May 11; Sp. p. 2211; Gaz. vol. 142; p. 389.  
 Ditching-machine. F. Clayman. No. 923,141; June 1; Sp. p. 33; Gaz. vol. 143; p. 7.  
 Ditching-machine. C. W. Rood. No. 926,136; June 29; Sp. p. 6381; Gaz. vol. 143; p. 1132.  
 Ditching-machine. C. J. Van Buren and L. A. Krupp. No. 929,732; Aug. 3; Sp. p. 197; Gaz. vol. 145; p. 35.  
 Ditching-machine. J. W. Humphreys. No. 931,763; Aug. 24; Sp. p. 4541; Gaz. vol. 145; p. 788.  
 Ditching-machine. J. B. Hill. No. 941,145; Nov. 23; Sp. p. 5963; Gaz. vol. 148; p. 1003.  
 Ditching-machine conveyer. I. N. Long. No. 912,390; Feb. 16; Sp. p. 2823; Gaz. vol. 139; p. 513.  
 Ditching machine, Tile-. R. Y. Kessler. No. 919,595; Apr. 27; Sp. p. 5671; Gaz. vol. 141; p. 975.



*Alphabetical list of inventions—Continued.*

- Divided bolt. A. Schlüssler. No. 940,739; Nov. 23; Sp. p. 5091; Gaz. vol. 148; p. 868.
- Dividers. J. M. King. No. 936,135; Oct. 5; Sp. p. 1129; Gaz. vol. 147; p. 171.
- Dividers, Proportional. L. M. Nelson. No. 930,408; Aug. 10; Sp. p. 1584; Gaz. vol. 145; p. 287.
- Dividers, Proportional. A. L. Black. No. 936,857; Oct. 12; Sp. p. 2629; Gaz. vol. 147; p. 437.
- Dock, Dry-. L. M. Cox. No. 931,182; Aug. 17; Sp. p. 3286; Gaz. vol. 145; p. 573.
- Dock, Floating dry-. W. T. Donnelly. No. 920,282; May 4; Sp. p. 417; Gaz. vol. 142; p. 63.
- Dock, Floating dry-. W. T. Donnelly. No. 920,283; May 4; Sp. p. 419; Gaz. vol. 142; p. 64.
- Dock, Floating dry-. W. T. Donnelly. No. 920,284; May 4; Sp. p. 420; Gaz. vol. 142; p. 64.
- Dock, Floating dry-. W. T. Donnelly. No. 920,285; May 4; Sp. p. 422; Gaz. vol. 142; p. 64.
- Dock, Floating dry-. W. T. Donnelly. No. 920,286; May 4; Sp. p. 425; Gaz. vol. 142; p. 65.
- Dock, Pneumatic floating. J. Löffelholz. No. 916,736; Mar. 30; Sp. p. 6230; Gaz. vol. 140; p. 1115.
- Docks, piers, jetties, building-foundations, &c., interlocking construction for. H. W. Schlueter. No. 910,421; Jan. 19; Sp. p. 4066; Gaz. vol. 138; p. 728.
- Doffer. A. A. Vardell. No. 922,545; May 25; Sp. p. 5042; Gaz. vol. 142; p. 895.
- Dogging device. O. M. Krebs. No. 936,784; Oct. 12; Sp. p. 2478; Gaz. vol. 147; p. 413.
- Doll, Sleeping. I. O. Wear. No. 912,637; Feb. 16; Sp. p. 3337; Gaz. vol. 139; p. 598.
- Dome-head-cutting machine. J. H. Ames. No. 936,073; Oct. 5; Sp. p. 1005; Gaz. vol. 147; p. 151.
- Domestic boiler. J. Woods. No. 921,776; May 18; Sp. p. 3471; Gaz. vol. 142; p. 617.
- Door. L. C. Dalhousie. No. 913,269; Feb. 23; Sp. p. 4632; Gaz. vol. 139; p. 831.
- Door. A. J. Ellis. No. 916,128; Mar. 23; Sp. p. 5043; Gaz. vol. 140; p. 893.
- Door. J. P. Sjöberg. No. 929,888; Aug. 3; Sp. p. 575; Gaz. vol. 145; p. 90.
- Door. S. B. Martin. No. 933,089; Sept. 7; Sp. p. 106; Gaz. vol. 146; p. 18.
- Door. C. B. Whitman. No. 933,512; Sept. 7; Sp. p. 1142; Gaz. vol. 146; p. 164.
- Door. A. A. Wheeler, M. V. Haskins, and A. H. Wheeler. No. 940,294; Nov. 16; Sp. p. 4087; Gaz. vol. 148; p. 693.
- Door. J. H. Pearson. No. 941,094; Nov. 23; Sp. p. 5842; Gaz. vol. 148; p. 986.
- Door-adjusting device. A. Hollmann. No. 933,985; Sept. 14; Sp. p. 2077; Gaz. vol. 146; p. 342.
- Door air-controlled lock, Sliding-. W. J. Martin. No. 913,834; Mar. 2; Sp. p. 319; Gaz. vol. 140; p. 55.
- Door and fastener, Silo-. K. Kleven. No. 927,550; July 13; Sp. p. 1734; Gaz. vol. 144; p. 310.
- Door and frame, Insect-proof. H. W. Diers. No. 933,238; Sept. 7; Sp. p. 474; Gaz. vol. 146; p. 73.
- Door and like fastener. F. G. Parker, Sr. No. 926,018; June 22; Sp. p. 6129; Gaz. vol. 143; p. 1058.
- Door and other closures, Safety locking device for. H. Rowntree. No. 913,773; Mar. 2; Sp. p. 204; Gaz. vol. 140; p. 34.
- Door and window fastener, Sliding. F. H. Schlapbach. No. 939,174; Nov. 2; Sp. p. 1550; Gaz. vol. 148; p. 251.
- Door and window lock, Portable. W. Fulton and J. F. Bengert. No. 932,694; Aug. 31; Sp. p. 6500; Gaz. vol. 145; p. 1119.
- Door and window pattern. A. W. Koerner. No. 937,816; Oct. 26; Sp. p. 4620; Gaz. vol. 147; p. 800.
- Door attachment. B. J. Auffart. No. 922,378; May 18; Sp. p. 4675; Gaz. vol. 142; p. 811.
- Door attachment, Screen-. A. R. Gordon. No. 931,411; Aug. 17; Sp. p. 3784; Gaz. vol. 145; p. 653.
- Door attachment, Screen-. C. Spencer. No. 942,223; Dec. 7; Sp. p. 421; Gaz. vol. 149; p. 64.
- Door-bolt. F. Loev. No. 924,081; June 8; Sp. p. 2124; Gaz. vol. 143; p. 354.
- Door-bolt, Multiple. W. J. Parle. No. 922,325; May 18; Sp. p. 4573; Gaz. vol. 142; p. 794.
- Door-bolt, Multiple. T. F. Rotchford. No. 932,330; Aug. 24; Sp. p. 5714; Gaz. vol. 145; p. 975.
- Door-bolt-operating means. J. Jackson. No. 912,379; Feb. 16; Sp. p. 2795; Gaz. vol. 139; p. 509.
- Door-bolt or door-holder. J. P. Holtzhausen. No. 919,580; Apr. 27; Sp. p. 5638; Gaz. vol. 141; p. 969.
- Door-brace. C. Friberg. No. 943,673; Dec. 21; Sp. p. 3552; Gaz. vol. 149; p. 618.
- Door bumper and holder. J. A. Poché. No. 922,328; May 18; Sp. p. 4579; Gaz. vol. 142; p. 795.
- Door-catch. C. R. Cochran. No. 914,796; Mar. 9; Sp. p. 2401; Gaz. vol. 140; p. 403.
- Door-catch. H. P. Connor. No. 914,798; Mar. 9; Sp. p. 2404; Gaz. vol. 140; p. 404.
- Door catch and lock. C. Roy. No. 917,664; Apr. 6; Sp. p. 1359; Gaz. vol. 141; p. 240.
- Door catch, Screen-. H. Hunter. No. 944,193; Dec. 21; Sp. p. 4636; Gaz. vol. 149; p. 794.
- Door-check. M. J. Flynn. No. 909,074; Jan. 5; Sp. p. 1311; Gaz. vol. 138; p. 211.
- Door-check. C. F. Dorn. No. 909,563; Jan. 12; Sp. p. 2285; Gaz. vol. 138; p. 405.
- Door-check. C. F. Dorn. No. 914,340; Mar. 2; Sp. p. 1450; Gaz. vol. 140; p. 226.
- Door-check. W. A. Ralston. No. 917,357; Apr. 6; Sp. p. 815; Gaz. vol. 141; p. 139.
- Door-check. W. W. Morey. No. 925,821; June 22; Sp. p. 5739; Gaz. vol. 143; p. 994.
- Door-check. W. Dominik. No. 926,321; June 29; Sp. p. 6782; Gaz. vol. 143; p. 1193.
- Door-check. C. D. Wood. No. 932,933; Aug. 31; Sp. p. 6972; Gaz. vol. 145; p. 1197.
- Door-check. A. Rosenberg. No. 937,094; Oct. 19; Sp. p. 3099; Gaz. vol. 147; p. 545.
- Door-check. C. L. Butler. No. 941,492; Nov. 30; Sp. p. 6724; Gaz. vol. 148; p. 1139.
- Door-check. R. W. Hubbard. No. 941,782; Nov. 30; Sp. p. 7335; Gaz. vol. 148; p. 1236.
- Door-check. D. Desplats. No. 942,622; Dec. 7; Sp. p. 1231; Gaz. vol. 149; p. 201.
- Door-check. A. Brown. No. 943,515; Dec. 14; Sp. p. 3186; Gaz. vol. 149; p. 536.
- Door-check. F. C. Russell. No. 943,791; Dec. 21; Sp. p. 3783; Gaz. vol. 149; p. 659.
- Door-check. J. A. Evans. No. 944,723; Dec. 28; Sp. p. 5803; Gaz. vol. 149; p. 1004.
- Door check and buffer. J. C. Peterman. No. 922,185; May 18; Sp. p. 4297; Gaz. vol. 142; p. 740.
- Door check and closer. B. Janelle. No. 909,904; Jan. 19; Sp. p. 2975; Gaz. vol. 138; p. 551.
- Door check and closer. O. Anschutz. No. 934,261; Sept. 14; Sp. p. 2623; Gaz. vol. 146; p. 434.
- Door check and closer. J. A. Peterson. No. 943,160; Dec. 14; Sp. p. 2438; Gaz. vol. 149; p. 414.
- Door check and closer bracket. J. H. Shaw. No. 910,734; Jan. 26; Sp. p. 4706; Gaz. vol. 138; p. 855.
- Door check, Swing-. H. L. Hess. No. 925,184; June 15; Sp. p. 4450; Gaz. vol. 143; p. 759.
- Door-closer. W. W. Bjorling. No. 941,907; Nov. 30; Sp. p. 7607; Gaz. vol. 148; p. 1281.
- Door closer and check. J. Bardsley. No. 915,819; Mar. 23; Sp. p. 4465; Gaz. vol. 140; p. 792.
- Door closer and stop, Combined. H. C. Moore. No. 942,656; Dec. 7; Sp. p. 1300; Gaz. vol. 149; p. 213.
- Door-closer, Compressed-air. A. E. Hanson. No. 933,034; Aug. 31; Sp. p. 7171; Gaz. vol. 145; p. 1230.
- Door closing and checking device. A. H. Sulser. No. 913,320; Feb. 23; Sp. p. 4746; Gaz. vol. 139; p. 849.
- Door-closing device. P. Gerst. No. 910,283; Jan. 19; Sp. p. 3792; Gaz. vol. 138; p. 683.
- Door-closing device, Swinging-. W. H. Knapp. No. 942,568; Dec. 7; Sp. p. 1124; Gaz. vol. 149; p. 183.
- Door-closing mechanism, Sliding-. W. Keating. No. 920,477; May 4; Sp. p. 771; Gaz. vol. 142; p. 125.
- Door-closure. J. Newsam. No. 931,701; Aug. 17; Sp. p. 4384; Gaz. vol. 145; p. 745.
- Door-closure. K. W. Gale. No. 938,048; Oct. 26; Sp. p. 5105; Gaz. vol. 147; p. 878.
- Door, Combination-. A. L. Penwell. No. 940,719; Nov. 23; Sp. p. 5043; Gaz. vol. 148; p. 861.
- Door construction. W. L. Evans, Jr. No. 937,430; Oct. 19; Sp. p. 3835; Gaz. vol. 147; p. 653.
- Door construction, Sliding-. J. R. Hussey. No. 909,602; Jan. 12; Sp. p. 2356; Gaz. vol. 138; p. 418.
- Door construction, Sliding-. B. K. Hussey. No. 937,810; Oct. 26; Sp. p. 4610; Gaz. vol. 147; p. 799.
- Door-controlling device. I. Filson. No. 914,817; Mar. 9; Sp. p. 2433; Gaz. vol. 140; p. 409.
- Door-controlling device. T. Kush and A. Webber. No. 916,455; Mar. 30; Sp. p. 5683; Gaz. vol. 140; p. 1027.
- Door-controlling device. A. L. Noel. No. 944,494; Dec. 28; Sp. p. 5302; Gaz. vol. 149; p. 925.
- Door, Double-action double. W. P. Armstrong. No. 931,247; Aug. 17; Sp. p. 3435; Gaz. vol. 145; p. 596.
- Door, Drop-. F. R. Henry. No. 934,726; Sept. 21; Sp. p. 3526; Gaz. vol. 146; p. 617.
- Door fan attachment. J. N. Hatcher. No. 941,921; Nov. 30; Sp. p. 7631; Gaz. vol. 148; p. 1285.
- Door-fastener. W. J. Fairbank. No. 915,576; Mar. 16; Sp. p. 3958; Gaz. vol. 140; p. 684.
- Door-fastener. E. L. Smith and O. M. Davis. No. 922,352; May 18; Sp. p. 4612; Gaz. vol. 142; p. 802.
- Door-fastener. S. J. Saphier. No. 924,277; June 8; Sp. p. 2582; Gaz. vol. 143; p. 421.
- Door-fastener. G. D. Collins. No. 929,287; July 27; Sp. p. 5372; Gaz. vol. 144; p. 946.
- Door-fastener. A. L. Cox. No. 930,534; Aug. 10; Sp. p. 1881; Gaz. vol. 145; p. 332.
- Door-fastener. N. W. Reid. No. 936,164; Oct. 5; Sp. p. 1183; Gaz. vol. 147; p. 180.
- Door-fastener. L. Ray. No. 937,465; Oct. 19; Sp. p. 3918; Gaz. vol. 147; p. 666.
- Door-fastener. J. Auger. No. 939,785; Nov. 9; Sp. p. 2950; Gaz. vol. 148; p. 486.
- Door-fastener. A. Berdan. No. 941,057; Nov. 23; Sp. p. 5767; Gaz. vol. 148; p. 973.
- Door-fastener. B. B. Fairman. No. 941,771; Nov. 30; Sp. p. 7317; Gaz. vol. 148; p. 1233.
- Door fastener, Barn-. W. F. Jones. No. 932,288; Aug. 24; Sp. p. 5641; Gaz. vol. 145; p. 962.
- Door fastener, Emergency-exit-. J. E. Hankins. No. 936,718; Oct. 12; Sp. p. 2353; Gaz. vol. 147; p. 391.
- Door fastener, Silo-. K. Kleven. No. 910,392; Jan. 19; Sp. p. 4007; Gaz. vol. 138; p. 719.
- Door fastener, Sliding-. D. W. Alderman. No. 912,930; Feb. 16; Sp. p. 3936; Gaz. vol. 139; p. 693.

*Alphabetical list of inventions—Continued.*

- Door fastener, Sliding-. J. D. Wilkinson. No. 917,226; Apr. 6; Sp. p. 541; Gaz. vol. 141; p. 94.  
 Door fastener, Sliding-. J. B. Shinn. No. 917,969; Apr. 13; Sp. p. 2036; Gaz. vol. 141; p. 370.  
 Door fastener, Sliding-. J. Cloos. No. 924,145; June 8; Sp. p. 2272; Gaz. vol. 143; p. 375.  
 Door fastener, Sliding-. C. W. Storandt. No. 931,895; Aug. 24; Sp. p. 4800; Gaz. vol. 145; p. 829.  
 Door fastener, Sliding-. E. H. Turcott. No. 936,191; Oct. 5; Sp. p. 1236; Gaz. vol. 147; p. 187.  
 Door fastener, Sliding-. J. McAllister, C. G. Anderson, and B. H. Hawkins. No. 941,379; Nov. 30; Sp. p. 6471; Gaz. vol. 148; p. 1101.  
 Door fastener, Sliding-. F. J. S. Miely. No. 943,362; Dec. 14; Sp. p. 2862; Gaz. vol. 149; p. 481.  
 Door-fastening device. M. Ritchel. No. 940,362; Nov. 16; Sp. p. 4249; Gaz. vol. 148; p. 716.  
 Door-fastening means. J. Jackson. No. 912,378; Feb. 16; Sp. p. 2794; Gaz. vol. 139; p. 509.  
 Door-fender. W. H. Terrell. No. 930,105; Aug. 3; Sp. p. 1021; Gaz. vol. 145; p. 165.  
 Door, Fire-escape. J. B. Bernier. No. 913,610; Feb. 23; Sp. p. 5350; Gaz. vol. 139; p. 946.  
 Door, Fireproof. O. E. Moulton. No. 911,836; Feb. 9; Sp. p. 1586; Gaz. vol. 139; p. 294.  
 Door, Folding. E. H. McCloud. No. 924,686; June 15; Sp. p. 3425; Gaz. vol. 143; p. 589.  
 Door, Folding grain-. J. E. Chantler. No. 915,739; Mar. 23; Sp. p. 4322; Gaz. vol. 140; p. 768.  
 Door-frame, Adjustable. M. M. Moen. No. 924,176; June 8; Sp. p. 2361; Gaz. vol. 143; p. 386.  
 Door, Grain-. T. J. Campbell. No. 911,701; Feb. 9; Sp. p. 1351; Gaz. vol. 139; p. 251.  
 Door, Grain-. W. Jordan. No. 926,494; June 29; Sp. p. 7085; Gaz. vol. 143; p. 1250.  
 Door, Grain-. G. S. Ney. No. 931,467; Aug. 17; Sp. p. 3894; Gaz. vol. 145; p. 672.  
 Door, Grain-. G. G. Newman and W. Rowe. No. 943,992; Dec. 21; Sp. p. 4220; Gaz. vol. 149; p. 728.  
 Door-hanger. G. A. Swineford. No. 909,036; Jan. 5; Sp. p. 1230; Gaz. vol. 138; p. 198.  
 Door-hanger. J. Simpson. No. 912,192; Feb. 9; Sp. p. 2366; Gaz. vol. 139; p. 409.  
 Door-hanger. J. W. McQueen. No. 913,150; Feb. 23; Sp. p. 4385; Gaz. vol. 139; p. 792.  
 Door-hanger. G. Lane. No. 913,518; Feb. 23; Sp. p. 5129; Gaz. vol. 139; p. 915.  
 Door-hanger. F. Mathews. No. 917,336; Apr. 6; Sp. p. 778; Gaz. vol. 141; p. 132.  
 Door-hanger. H. Fabian. No. 913,985; Apr. 20; Sp. p. 4224; Gaz. vol. 141; p. 738.  
 Door-hanger. I. Johnson. No. 923,272; June 1; Sp. p. 381; Gaz. vol. 143; p. 53.  
 Door-hanger. F. O. Hanson. No. 925,176; June 15; Sp. p. 4426; Gaz. vol. 143; p. 755.  
 Door-hanger. G. L. Schnepf. No. 925,234; June 15; Sp. p. 4539; Gaz. vol. 143; p. 775.  
 Door-hanger. G. W. Stuyverson. No. 926,778; July 6; Sp. p. 140; Gaz. vol. 144; p. 23.  
 Door-hanger. W. R. Lewis. No. 928,137; July 13; Sp. p. 2957; Gaz. vol. 144; p. 505.  
 Door-hanger. J. G. B. Lamb. No. 930,393; Aug. 10; Sp. p. 1557; Gaz. vol. 145; p. 282.  
 Door-hanger. M. E. Kanaly. No. 934,974; Sept. 21; Sp. p. 4017; Gaz. vol. 146; p. 698.  
 Door-hanger. F. J. S. Miely. No. 938,264; Oct. 26; Sp. p. 5575; Gaz. vol. 147; p. 953.  
 Door-hanger. G. T. Buddie. No. 938,823; Nov. 2; Sp. p. 804; Gaz. vol. 148; p. 129.  
 Door-hanger. A. Theyskens. No. 940,088; Nov. 16; Sp. p. 3639; Gaz. vol. 148; p. 621.  
 Door-hanger. W. D. Ferris. No. 940,307; Nov. 16; Sp. p. 4134; Gaz. vol. 148; p. 697.  
 Door-hanger. E. C. Pitcher. No. 941,095; Nov. 23; Sp. p. 5844; Gaz. vol. 148; p. 986.  
 Door-hanger. W. D. Thompson. No. 941,664; Nov. 30; Sp. p. 7072; Gaz. vol. 148; p. 1195.  
 Door-hanger. J. H. Lawrence. No. 942,860; Dec. 7; Sp. p. 1723; Gaz. vol. 149; p. 279.  
 Door-hanger, Adjustable. V. A. Benson. No. 908,836; Jan. 5; Sp. p. 845; Gaz. vol. 138; p. 133.  
 Door hanger and guide. E. T. Robinson. No. 926,356; June 29; Sp. p. 6847; Gaz. vol. 143; p. 1205.  
 Door hanger and hood, Sliding-. M. Richey and S. J. Crites. No. 923,706; June 1; Sp. p. 1316; Gaz. vol. 143; p. 203.  
 Door hanger and track. P. J. Schuler. No. 915,386; Mar. 16; Sp. p. 3572; Gaz. vol. 140; p. 622.  
 Door hanger and track. H. L. and H. J. Ferris. No. 919,288; Apr. 20; Sp. p. 4979; Gaz. vol. 141; p. 835.  
 Door hanger, Car-. J. E. Hill. No. 914,411; Mar. 9; Sp. p. 1615; Gaz. vol. 140; p. 275.  
 Door hanger, Flush-. G. Fristad. No. 931,052; Aug. 17; Sp. p. 2999; Gaz. vol. 145; p. 529.  
 Door hanger, Sliding-. W. W. Clark. No. 913,261; Feb. 23; Sp. p. 4621; Gaz. vol. 139; p. 829.  
 Door hanger, Sliding-. A. Jensen. No. 913,660; Feb. 23; Sp. p. 5469; Gaz. vol. 139; p. 963.  
 Door hanger, Sliding-. J. W. Ohl. No. 927,272; July 6; Sp. p. 1174; Gaz. vol. 144; p. 192.  
 Door hanger, Sliding-. D. L. Phipps. No. 943,784; Dec. 21; Sp. p. 3773; Gaz. vol. 149; p. 657.  
 Door-hanger track. H. L. Ferris. No. 908,849; Jan. 5; Sp. p. 867; Gaz. vol. 138; p. 137.  
 Door-hanger truck-frame. T. C. Prouty. No. 931,799; Aug. 24; Sp. p. 4610; Gaz. vol. 145; p. 799.  
 Door-hinge. L. W. Hartsig. No. 910,533; Jan. 26; Sp. p. 4303; Gaz. vol. 138; p. 790.  
 Door-holder. G. L. Robinson and J. Dean. No. 911,074; Feb. 2; Sp. p. 104; Gaz. vol. 139; p. 19.  
 Door-holder. J. P. Holtzouser. No. 919,579; Apr. 27; Sp. p. 5636; Gaz. vol. 141; p. 968.  
 Door-holder. W. W. McNaughton. No. 934,747; Sept. 21; Sp. p. 3559; Gaz. vol. 146; p. 621.  
 Door-holder. H. M. Daly. No. 942,310; Dec. 7; Sp. p. 602; Gaz. vol. 149; p. 95.  
 Door-holder. T. Draper. No. 943,143; Dec. 14; Sp. p. 2411; Gaz. vol. 149; p. 409.  
 Door-hood. L. J. and G. W. Koch. No. 910,393; Jan. 19; Sp. p. 4009; Gaz. vol. 138; p. 720.  
 Door-key. I. E. Solomon. No. 913,923; Mar. 2; Sp. p. 546; Gaz. vol. 140; p. 88.  
 Door knob or handle lock. A. Marion. No. 912,587; Feb. 16; Sp. p. 3236; Gaz. vol. 139; p. 580.  
 Door latch and bolt, Combined. F. K. Baker. No. 915,536; Mar. 16; Sp. p. 3857; Gaz. vol. 140; p. 670.  
 Door, &c., latch and lock. F. G. Markbach. No. 913,409; Feb. 23; Sp. p. 4905; Gaz. vol. 139; p. 880.  
 Door-lock. F. W. Goldstone. No. 909,888; Jan. 19; Sp. p. 2931; Gaz. vol. 138; p. 545.  
 Door-lock. F. P. Pfeighar. No. 912,884; Feb. 16; Sp. p. 3849; Gaz. vol. 139; p. 678.  
 Door-lock. F. P. Pfeighar. No. 914,669; Mar. 9; Sp. p. 2147; Gaz. vol. 140; p. 360.  
 Door-lock. F. P. Pfeighar. No. 914,670; Mar. 9; Sp. p. 2148; Gaz. vol. 140; p. 361.  
 Door-lock. A. Schoenman. No. 916,610; Mar. 30; Sp. p. 6011; Gaz. vol. 140; p. 1078.  
 Door-lock. P. J. Pauly, Jr. No. 918,693; Apr. 20; Sp. p. 3612; Gaz. vol. 141; p. 640.  
 Door-lock. G. H. Day. No. 922,675; May 25; Sp. p. 5307; Gaz. vol. 142; p. 938.  
 Door-lock. G. A. Huber. No. 924,464; June 8; Sp. p. 2946; Gaz. vol. 143; p. 482.  
 Door-lock. G. W. Northrup. No. 929,474; July 27; Sp. p. 5740; Gaz. vol. 144; p. 1007.  
 Door-lock. A. B. Lake. No. 930,392; Aug. 10; Sp. p. 1555; Gaz. vol. 145; p. 281.  
 Door-lock. W. S. Clawson. No. 931,567; Aug. 17; Sp. p. 4074; Gaz. vol. 145; p. 702.  
 Door-lock. W. Curlett. No. 933,630; Sept. 7; Sp. p. 1364; Gaz. vol. 146; p. 203.  
 Door-lock. F. Assmann. No. 943,133; Dec. 14; Sp. p. 2385; Gaz. vol. 149; p. 406.  
 Door-lock and burglar-alarm, Combined. T. W. Smith. No. 911,080; Feb. 2; Sp. p. 112; Gaz. vol. 139; p. 21.  
 Door-lock, Automatic knob-operated. G. C. Manning. No. 941,327; Nov. 23; Sp. p. 6343; Gaz. vol. 148; p. 1061.  
 Door-lock, Combination. A. E. Brown and J. M. Roberts. No. 939,210; Nov. 9; Sp. p. 1635; Gaz. vol. 148; p. 289.  
 Door-lock guard. L. Andersen and M. Hansen. No. 913,800; Mar. 2; Sp. p. 259; Gaz. vol. 140; p. 44.  
 Door lock, Hotel-. A. Arens. No. 932,364; Aug. 24; Sp. p. 5772; Gaz. vol. 145; p. 986.  
 Door lock, Sliding-. G. C. Kreutzer and J. C. Jones. No. 908,581; Jan. 5; Sp. p. 307; Gaz. vol. 138; p. 52.  
 Door lock, Sliding-. G. M. Blair. No. 910,897; Jan. 26; Sp. p. 5036; Gaz. vol. 138; p. 907.  
 Door lock, Sliding-. R. C. Baldwin. No. 916,826; Mar. 30; Sp. p. 6391; Gaz. vol. 140; p. 1143.  
 Door lock, Sliding-. J. A. Benedict. No. 926,460; June 29; Sp. p. 7033; Gaz. vol. 143; p. 1240.  
 Door-locking device. W. W. Corman. No. 913,700; Mar. 2; Sp. p. 45; Gaz. vol. 140; p. 9.  
 Door locking device, Emergency-exit-. F. L. Putney. No. 919,634; Apr. 27; Sp. p. 5741; Gaz. vol. 141; p. 988.  
 Door-locking mechanism, Emergency-exit-. P. H. McEwan. No. 920,375; May 4; Sp. p. 578; Gaz. vol. 142; p. 93.  
 Door locking mechanism, Emergency-exit-. A. Carpenter. No. 926,545; June 29; Sp. p. 7174; Gaz. vol. 143; p. 1267.  
 Door-mat. C. D. Bonner. No. 925,279; June 15; Sp. p. 4612; Gaz. vol. 143; p. 788.  
 Door-mat. C. J. Peterson. No. 937,010; Oct. 12; Sp. p. 2922; Gaz. vol. 147; p. 486.  
 Door mechanism. F. S. Gallagher. No. 914,135; Mar. 2; Sp. p. 1026; Gaz. vol. 140; p. 162.  
 Door, Metal. A. C. Goddard. No. 918,142; Apr. 13; Sp. p. 2402; Gaz. vol. 141; p. 430.  
 Door, Metallic. R. E. Frame and C. G. Harrington. No. 941,068; Nov. 23; Sp. p. 5793; Gaz. vol. 148; p. 977.  
 Door-opener. F. Conner. No. 909,552; Jan. 12; Sp. p. 2259; Gaz. vol. 138; p. 401.  
 Door-opener. K. I. Bronson. No. 918,730; Apr. 20; Sp. p. 3689; Gaz. vol. 141; p. 654.  
 Door-opener. W. H. Edwards. No. 919,141; Apr. 20; Sp. p. 4508; Gaz. vol. 141; p. 787.  
 Door opening and closing mechanism. F. Scott. No. 925,956; June 22; Sp. p. 6005; Gaz. vol. 143; p. 1037.  
 Door opening and closing mechanism, Sliding-. A. Anderson. No. 933,284; Sept. 7; Sp. p. 580; Gaz. vol. 146; p. 89.  
 Door-opening apparatus, Automatic. L. Effenberger. No. 935,475; Sept. 28; Sp. p. 5013; Gaz. vol. 146; p. 886.  
 Door-opening device. A. S. Flowers. No. 934,153; Sept. 14; Sp. p. 2424; Gaz. vol. 146; p. 398.  
 Door-operating appliance. F. Shoemaker. No. 922,530; May 25; Sp. p. 5010; Gaz. vol. 142; p. 890.



*Alphabetical list of inventions—Continued.*

- Door-operating device. T. J. Naulty. No. 912,019; Feb. 9; Sp. p. 2041; Gaz. vol. 139; p. 356.  
 Door-operating device. T. J. Naulty. No. 914,161; Mar. 2; Sp. p. 1071; Gaz. vol. 140; p. 170.  
 Door-operating device. J. F. McElroy. No. 917,642; Apr. 6; Sp. p. 1323; Gaz. vol. 141; p. 233.  
 Door-operating device. E. Posson. No. 934,933; Sept. 21; Sp. p. 3939; Gaz. vol. 146; p. 683.  
 Door-operating device, Mine-. J. M. Sausser. No. 916,027; Mar. 23; Sp. p. 4863; Gaz. vol. 140; p. 861.  
 Door-operating lever, Dump-. W. H. Yost. No. 919,413; Apr. 27; Sp. p. 5266; Gaz. vol. 141; p. 912.  
 Door-operating means. W. R. Rogers and C. Vogel. No. 935,410; Sept. 28; Sp. p. 4893; Gaz. vol. 146; p. 865.  
 Door-operating means, Sliding-. A. Krause. No. 935,795; Oct. 5; Sp. p. 403; Gaz. vol. 147; p. 59.  
 Door-operating mechanism. C. J. Wolfe. No. 917,230; Apr. 6; Sp. p. 547; Gaz. vol. 141; p. 96.  
 Door-operating mechanism. W. H. Evans. No. 918,984; Apr. 20; Sp. p. 4223; Gaz. vol. 141; p. 737.  
 Door-operating mechanism. H. Rowntree. No. 937,870; Oct. 26; Sp. p. 4737; Gaz. vol. 147; p. 819.  
 Door-operating mechanism. G. Mazzolini. No. 938,068; Oct. 26; Sp. p. 5155; Gaz. vol. 147; p. 885.  
 Door-operating mechanism. E. D. Curtis. No. 941,132; Nov. 23; Sp. p. 5938; Gaz. vol. 148; p. 998.  
 Door-operating mechanism. R. M. Zimmerman. No. 942,234; Dec. 7; Sp. p. 447; Gaz. vol. 149; p. 69.  
 Door-operating mechanism, Dump-. F. Seaberg. No. 937,100; Oct. 19; Sp. p. 3107; Gaz. vol. 147; p. 546.  
 Door-operating mechanism, Dump-. F. Seaberg. No. 937,101; Oct. 19; Sp. p. 3109; Gaz. vol. 147; p. 546.  
 Door-operating mechanism, Dump-. F. Seaberg. No. 944,284; Dec. 28; Sp. p. 4825; Gaz. vol. 149; p. 851.  
 Door-operating mechanism, Dumping-. F. Seaberg. No. 908,505; Jan. 5; Sp. p. 148; Gaz. vol. 138; p. 27.  
 Door-operator. W. Harris. No. 911,496; Feb. 2; Sp. p. 888; Gaz. vol. 139; p. 157.  
 Door or other alarm. J. Seelhorst, Jr. No. 942,593; Dec. 7; Sp. p. 1169; Gaz. vol. 149; p. 190.  
 Door or other device pneumatic operating mechanism. H. Rowntree. No. 913,853; Mar. 2; Sp. p. 368; Gaz. vol. 140; p. 62.  
 Door, Radial. W. H. Wilson. No. 929,265; July 27; Sp. p. 5307; Gaz. vol. 144; p. 938.  
 Door-release, Electrically-operated. W. H. Snyder. No. 938,175; Oct. 26; Sp. p. 5395; Gaz. vol. 147; p. 921.  
 Door-retainer. C. S. Hendrick. No. 910,815; Jan. 26; Sp. p. 4889; Gaz. vol. 138; p. 882.  
 Door-retaining device. J. Whitaker. No. 921,322; May 11; Sp. p. 3447; Gaz. vol. 142; p. 612.  
 Door, Revolving. J. Wendler. No. 921,322; May 11; Sp. p. 2524; Gaz. vol. 142; p. 437.  
 Door, Revolving. J. S. Mitchell and F. M. Overholt. No. 929,235; July 27; Sp. p. 5240; Gaz. vol. 144; p. 928.  
 Door, Revolving. F. Clymer and J. Degen. No. 941,619; Nov. 30; Sp. p. 6973; Gaz. vol. 148; p. 1180.  
 Door, Revolving. C. J. Cruyff. No. 941,699; Nov. 30; Sp. p. 7150; Gaz. vol. 148; p. 1207.  
 Door roller-support, Sliding-. D. C. Edmondson. No. 911,554; Feb. 2; Sp. p. 1015; Gaz. vol. 139; p. 176.  
 Door, Safe and vault. H. D. Hibbard. No. 916,444; Mar. 30; Sp. p. 5646; Gaz. vol. 140; p. 1023.  
 Door-screen. J. Fink. No. 937,230; Oct. 19; Sp. p. 3398; Gaz. vol. 147; p. 589.  
 Door-securer. F. F. and M. F. Dunn. No. 908,763; Jan. 5; Sp. p. 709; Gaz. vol. 138; p. 110.  
 Door-securer. J. P. Stoffel. No. 910,431; Jan. 19; Sp. p. 4088; Gaz. vol. 138; p. 732.  
 Door-securer. W. Minderelein. No. 913,223; Feb. 23; Sp. p. 4535; Gaz. vol. 139; p. 816.  
 Door-securer. P. A. Thorin. No. 914,204; Mar. 2; Sp. p. 1174; Gaz. vol. 140; p. 184.  
 Door-securer. J. U. Tabor. No. 928,820; July 20; Sp. p. 4378; Gaz. vol. 144; p. 763.  
 Door-securer. F. W. Millis and A. Carlton. No. 934,558; Sept. 21; Sp. p. 3188; Gaz. vol. 146; p. 556.  
 Door-securing means. A. Cotton. No. 922,460; May 25; Sp. p. 4856; Gaz. vol. 142; p. 867.  
 Door, Sheet-metal. N. P. Sjobring. No. 926,361; June 29; Sp. p. 6856; Gaz. vol. 143; p. 1206.  
 Door, Sliding. E. R. Jackson. No. 921,708; May 18; Sp. p. 3331; Gaz. vol. 142; p. 593.  
 Door-spring. A. M. Barnett. No. 912,933; Feb. 16; Sp. p. 3942; Gaz. vol. 139; p. 694.  
 Door-spring. O. Gunther. No. 920,323; May 4; Sp. p. 479; Gaz. vol. 142; p. 75.  
 Door, Spring-. W. H. Jordan. No. 936,908; Oct. 12; Sp. p. 2723; Gaz. vol. 147; p. 454.  
 Door spring-hinge attachment, Lavatory-. E. Bommer. No. 916,662; Mar. 30; Sp. p. 6102; Gaz. vol. 140; p. 1093.  
 Door-stop. F. D. Melville. No. 911,423; Feb. 2; Sp. p. 777; Gaz. vol. 139; p. 135.  
 Door-stop. E. C. Scruggs. No. 912,326; Feb. 16; Sp. p. 2691; Gaz. vol. 139; p. 492.  
 Door-stop. J. M. Patterson. No. 914,179; Mar. 2; Sp. p. 1129; Gaz. vol. 140; p. 176.  
 Door-stop. R. R. Snowden. No. 915,708; Mar. 16; Sp. p. 4241; Gaz. vol. 140; p. 731.  
 Door-stop. C. E. Lamb. No. 916,457; Mar. 30; Sp. p. 5687; Gaz. vol. 140; p. 1028.  
 Door-stop. J. W. Moran. No. 921,556; May 11; Sp. p. 2995; Gaz. vol. 142; p. 514.  
 Door-stop. L. Parish and R. B. Kendig. No. 926,595; June 29; Sp. p. 7278; Gaz. vol. 143; p. 1285.  
 Door-stop. S. P. Crowell. No. 934,392; Sept. 14; Sp. p. 2869; Gaz. vol. 146; p. 479.  
 Door-stop. F. M. Mosier. No. 935,392; Sept. 28; Sp. p. 4860; Gaz. vol. 146; p. 860.  
 Door-stop. W. Boettcher. No. 938,114; Oct. 26; Sp. p. 5250; Gaz. vol. 147; p. 901.  
 Door-stop. D. Crockett. No. 940,436; Nov. 16; Sp. p. 4436; Gaz. vol. 148; p. 742.  
 Door-stop. W. La Baw. No. 941,885; Nov. 30; Sp. p. 7561; Gaz. vol. 148; p. 1272.  
 Door-stop. J. L. Webb. No. 942,686; Dec. 7; Sp. p. 1353; Gaz. vol. 149; p. 222.  
 Door-stop. C. W. Ellerbe. No. 942,893; Dec. 14; Sp. p. 1831; Gaz. vol. 149; p. 323.  
 Door stop and fastener, Sliding-. G. Homan. No. 913,821; Mar. 2; Sp. p. 295; Gaz. vol. 140; p. 51.  
 Door stop and holder. D. A. Sox. No. 942,943; Dec. 14; Sp. p. 1958; Gaz. vol. 149; p. 340.  
 Door stop and holder, Combined. J. M. Spencer. No. 921,020; May 11; Sp. p. 1885; Gaz. vol. 142; p. 334.  
 Door stop and retainer. S. L. Mefford. No. 913,748; Mar. 2; Sp. p. 154; Gaz. vol. 140; p. 26.  
 Door-stop and supporting box-range. W. J. Keene and G. W. Schuster. No. 919,727; Apr. 27; Sp. p. 5934; Gaz. vol. 141; p. 1018.  
 Door stop or securer. R. Pitt. No. 928,279; July 20; Sp. p. 3314; Gaz. vol. 144; p. 585.  
 Door, Storm-. F. A. Schureman. No. 931,502; Aug. 17; Sp. p. 3960; Gaz. vol. 145; p. 683.  
 Door-strike. E. Bommer. No. 944,310; Dec. 28; Sp. p. 4885; Gaz. vol. 149; p. 860.  
 Door structure, Sliding-. E. C. Pitcher. No. 920,083; Apr. 27; Sp. p. 6683; Gaz. vol. 141; p. 1136.  
 Door track and hanger. A. Wulff. No. 940,770; Nov. 23; Sp. p. 5174; Gaz. vol. 148; p. 879.  
 Door trolley-track, Sliding-. G. Lane. No. 911,824; Feb. 9; Sp. p. 1568; Gaz. vol. 139; p. 291.  
 Door, Vault-. C. Weiss. No. 915,397; Mar. 16; Sp. p. 3592; Gaz. vol. 140; p. 625.  
 Door, wainscoting, &c., Sheet-metal. C. E. Nelms. No. 933,328; Sept. 7; Sp. p. 671; Gaz. vol. 146; p. 328.  
 Doors, Adjustable track for sliding. I. S. McNaught. No. 921,440; May 11; Sp. p. 2776; Gaz. vol. 142; p. 477.  
 Doors, Antisagging device for. C. Lehman. No. 929,958; Aug. 3; Sp. p. 713; Gaz. vol. 145; p. 114.  
 Doors, Automatic control of water-tight. W. L. Merrill. No. 941,428; Nov. 30; Sp. p. 6593; Gaz. vol. 148; p. 1118.  
 Doors, Closing device with stop for swinging. A. Damitz. No. 927,498; July 13; Sp. p. 1628; Gaz. vol. 144; p. 293.  
 Doors, Combined roller-support and casing for edgewise-movable. M. Kurtzon. No. 938,493; Nov. 2; Sp. p. 104; Gaz. vol. 148; p. 16.  
 Doors, &c., Controller for. M. C. Miller. No. 943,693; Dec. 21; Sp. p. 3586; Gaz. vol. 149; p. 625.  
 Doors, &c., Cushioning device for. G. Kabureck. No. 918,060; Apr. 13; Sp. p. 2241; Gaz. vol. 141; p. 402.  
 Doors, Fastening device for emergency-exit. A. C. Willison and J. B. Williams. No. 941,000; Nov. 23; Sp. p. 5644; Gaz. vol. 148; p. 954.  
 Doors, gates, &c., Engaging mechanism for. F. G. Marbach. No. 913,410; Feb. 23; Sp. p. 4906; Gaz. vol. 139; p. 880.  
 Doors, Guide-bracket for edgewise-movable. T. Mull. No. 922,612; May 25; Sp. p. 5182; Gaz. vol. 142; p. 917.  
 Doors, Metallic wall-pocket structure for sliding. D. Schuyler and H. Laughlin, Jr. No. 929,633; July 27; Sp. p. 6053; Gaz. vol. 144; p. 1059.  
 Doors of public buildings, Means for automatically opening. T. A. Stevenson and I. E. Morgan. No. 911,175; Feb. 2; Sp. p. 298; Gaz. vol. 139; p. 53.  
 Doors of public buildings, Means for automatically unlocking. T. A. Stevenson. No. 911,176; Feb. 2; Sp. p. 299; Gaz. vol. 139; p. 53.  
 Doors of public buildings, Means for automatically unlocking. T. A. Stevenson. No. 911,177; Feb. 2; Sp. p. 301; Gaz. vol. 139; p. 53.  
 Doors, Reversible supporting-plate for adjustable hinging-strips for. L. S. Prentiss. No. 925,505; June 22; Sp. p. 5050; Gaz. vol. 143; p. 899.  
 Doors, screens, &c., Means for hanging. T. Gill. No. 939,004; Nov. 2; Sp. p. 1194; Gaz. vol. 148; p. 191.  
 Dosing device, Liquid-tight. E. M. Bajon. No. 941,905; Nov. 30; Sp. p. 7602; Gaz. vol. 148; p. 1280.  
 Double-acting clamp. J. M. Goodnight. No. 914,567; Mar. 9; Sp. p. 1924; Gaz. vol. 140; p. 328.  
 Double-acting switch. C. J. Spellman. No. 940,408; Nov. 16; Sp. p. 4379; Gaz. vol. 148; p. 732.  
 Double bit. J. G. Williamson. No. 908,824; Jan. 5; Sp. p. 819; Gaz. vol. 138; p. 128.  
 Double rake. R. M. Kenney. No. 909,607; Jan. 12; Sp. p. 2368; Gaz. vol. 138; p. 420.  
 Doubletree. G. M. Frink. No. 939,002; Nov. 2; Sp. p. 1191; Gaz. vol. 148; p. 191.  
 Doubletree attachment. J. L. Alter and C. A. Einert. No. 926,379; June 29; Sp. p. 6883; Gaz. vol. 143; p. 1211.  
 Doubletree, Four-horse. C. A. Bradley. No. 917,533; Apr. 6; Sp. p. 1126; Gaz. vol. 141; p. 197.  
 Doubletree, Four-horse. M. McEvoy. No. 939,584; Nov. 9; Sp. p. 2400; Gaz. vol. 148; p. 398.  
 Doubling apparatus. F. E. Donner. No. 941,700; Nov. 30; Sp. p. 7154; Gaz. vol. 148; p. 1207.  
 Doubling and twisting machine thread-breaking attachment. F. S. Culver. No. 917,013; Apr. 6; Sp. p. 99; Gaz. vol. 141; p. 21.  
 Doubling and twisting machines. Stop-motion device for. F. W. Rochelle. No. 927,285; July 6; Sp. p. 1194; Gaz. vol. 144; p. 196.  
 Doubling and twisting machine. W. H. Hoyle and T. Barker. No. 912,847; Feb. 16; Sp. p. 3795; Gaz. vol. 139; p. 668.

*Alphabetical list of inventions—Continued.*

- Douche or bed-pan. I. Schikorra. No. 924,383; June 8; Sp. p. 2810; Gaz. vol. 143; p. 457.
- Douche-pan protector. E. Reynolds. No. 931,219; Aug. 17; Sp. p. 3372; Gaz. vol. 145; p. 586.
- Dough and like materials, Machine for treating. G. S. Baker. No. 941,296; Nov. 23; Sp. p. 6291; Gaz. vol. 148; p. 1053.
- Dough-cutter, Adjustable. C. E. Lane. No. 915,611; Mar. 16; Sp. p. 4029; Gaz. vol. 140; p. 696.
- Dough-cutting device. A. Kimmel. No. 925,919; June 22; Sp. p. 5941; Gaz. vol. 143; p. 1025.
- Dough-dividing machine. T. W. Kaiser. No. 934,183; Sept. 14; Sp. p. 2474; Gaz. vol. 146; p. 408.
- Dough-forming machine. G. H. Petri. No. 936,660; Oct. 12; Sp. p. 2240; Gaz. vol. 147; p. 372.
- Dough-forming machine. G. H. Petri. No. 936,661; Oct. 12; Sp. p. 2242; Gaz. vol. 147; p. 372.
- Dough-forming machine. G. H. Petri. No. 941,338; Nov. 23; Sp. p. 6361; Gaz. vol. 148; p. 1064.
- Dough handing up or rolling machine. W. Scott and M. Richard. No. 925,235; June 15; Sp. p. 4540; Gaz. vol. 143; p. 775.
- Dough in the manufacture of bread, Machine for rounding up lumps of. F. H. Van Houten, Jr. No. 942,154; Dec. 7; Sp. p. 280; Gaz. vol. 149; p. 43.
- Dough, Machine for the transport of. G. S. Baker. No. 927,474; July 13; Sp. p. 1580; Gaz. vol. 144; p. 284.
- Dough-mixer. R. Marchand. No. 920,484; May 4; Sp. p. 783; Gaz. vol. 142; p. 127.
- Dough mixer and raiser. M. Bowman. No. 917,921; Apr. 13; Sp. p. 1943; Gaz. vol. 141; p. 352.
- Dough mixer, Pie and biscuit. E. P. Violette. No. 927,387; July 6; Sp. p. 1368; Gaz. vol. 144; p. 227.
- Dough mixing and kneading machine. G. J. Hicks. No. 913,133; Feb. 23; Sp. p. 4348; Gaz. vol. 139; p. 787.
- Dough-mixing machine. C. Chambers, Jr. No. 921,202; May 11; Sp. p. 2261; Gaz. vol. 142; p. 398.
- Dough-mixing machine. C. Chambers, Jr. No. 921,361; May 11; Sp. p. 2615; Gaz. vol. 142; p. 451.
- Dough-mixing machine. C. Chambers, Jr. No. 921,796; May 13; Sp. p. 3503; Gaz. vol. 142; p. 622.
- Dough-mixing machine. C. Chambers, Jr. No. 939,392; Nov. 9; Sp. p. 2103; Gaz. vol. 148; p. 351.
- Dough-molding apparatus. J. Callow. No. 917,711; Apr. 6; Sp. p. 1456; Gaz. vol. 141; p. 255.
- Dough-molding machine. C. Loesch and C. Böhme. No. 912,695; Feb. 16; Sp. p. 3463; Gaz. vol. 139; p. 618.
- Dough-molding machine, Long-loaf. F. Streich. No. 920,096; Apr. 27; Sp. p. 6718; Gaz. vol. 141; p. 1140.
- Dough molding or shaping machine. F. H. Van Houten. No. 942,153; Dec. 7; Sp. p. 278; Gaz. vol. 149; p. 42.
- Dough-raiser. S. Rasmussen. No. 929,983; Aug. 3; Sp. p. 764; Gaz. vol. 145; p. 122.
- Dough-raising apparatus. H. H. Young. No. 915,010; Mar. 9; Sp. p. 2780; Gaz. vol. 140; p. 470.
- Dough-rolling device. D. Krapf and J. F. Sachs. No. 943,423; Dec. 14; Sp. p. 2974; Gaz. vol. 149; p. 502.
- Dough-shaper. E. F. Sobers. No. 944,289; Dec. 28; Sp. p. 4831; Gaz. vol. 149; p. 852.
- Dough shaping and cutting machine. D. Németh. No. 934,749; Sept. 21; Sp. p. 3563; Gaz. vol. 146; p. 621.
- Doughnut-drainer. G. H. Trepanier. No. 923,465; June 1; Sp. p. 793; Gaz. vol. 143; p. 118.
- Dovetailing-machine. F. Holzschelter and T. Hegl. No. 916,555; Mar. 30; Sp. p. 5909; Gaz. vol. 140; p. 1060.
- Doweling-machine. G. H. Farrington. No. 918,986; Apr. 20; Sp. p. 4227; Gaz. vol. 141; p. 738.
- Downdraft-boiler. C. N. Chandler and G. Dow. No. 917,751; Apr. 13; Sp. p. 1566; Gaz. vol. 141; p. 295.
- Draft and buffing mechanism, Friction. H. Asper. No. 933,046; Sept. 7; Sp. p. 4; Gaz. vol. 146; p. 3.
- Draft apparatus. J. F. Stoeffler. No. 917,375; Apr. 6; Sp. p. 848; Gaz. vol. 141; p. 145.
- Draft appliance. F. H. Durgin. No. 918,426; Apr. 13; Sp. p. 2964; Gaz. vol. 141; p. 522.
- Draft appliance. H. W. Smith. No. 925,396; June 15; Sp. p. 4825; Gaz. vol. 143; p. 825.
- Draft appliance. C. Lunde. No. 932,561; Aug. 31; Sp. p. 6198; Gaz. vol. 145; p. 1074.
- Draft appliance. W. W. Winger. No. 935,135; Sept. 28; Sp. p. 4358; Gaz. vol. 146; p. 777.
- Draft appliance. W. F. Gaines. No. 937,432; Oct. 19; Sp. p. 3840; Gaz. vol. 147; p. 654.
- Draft appliance. O. Atkinson. No. 939,378; Nov. 9; Sp. p. 2081; Gaz. vol. 148; p. 347.
- Draft appliance. F. M. Smiley. No. 941,545; Nov. 30; Sp. p. 6827; Gaz. vol. 148; p. 1156.
- Draft appliance. W. Tiernan and H. M. Schreiber. No. 942,599; Dec. 7; Sp. p. 1184; Gaz. vol. 149; p. 193.
- Draft appliance. C. F. Johnston. No. 944,138; Dec. 21; Sp. p. 4527; Gaz. vol. 149; p. 777.
- Draft appliance, Compensating. W. C. White. No. 944,755; Dec. 28; Sp. p. 5887; Gaz. vol. 149; p. 1014.
- Draft appliance, Spring-. D. R. Davis. No. 923,953; June 8; Sp. p. 1881; Gaz. vol. 143; p. 314.
- Draft-arm. O. Baur. No. 921,345; May 11; Sp. p. 2586; Gaz. vol. 142; p. 445.
- Draft attachment and evener. W. Barbo. No. 924,529; June 8; Sp. p. 3078; Gaz. vol. 143; p. 103.
- Draft attachment for vehicle-gears. G. Streich. No. 923,727; June 1; Sp. p. 1345; Gaz. vol. 143; p. 209.
- Draft attachment, Vehicle. C. V. Paul. No. 932,639; Aug. 31; Sp. p. 6383; Gaz. vol. 145; p. 1101.
- Draft attachment, Wagon. W. F. Schoepflin. No. 920,398; May 4; Sp. p. 628; Gaz. vol. 142; p. 100.
- Draft-bar for farm machinery. F. W. Kloeke. No. 925,197; June 15; Sp. p. 4470; Gaz. vol. 143; p. 763.
- Draft-carrier and body-bolster construction. O. S. Pulliam. No. 929,246; July 27; Sp. p. 5260; Gaz. vol. 144; p. 932.
- Draft-controlling means and other devices, Mechanism for operating. F. J. Wolf. No. 935,719; Oct. 5; Sp. p. 202; Gaz. vol. 147; p. 32.
- Draft device. H. Barber. No. 928,168; July 13; Sp. p. 3020; Gaz. vol. 144; p. 515.
- Draft device. H. J. Klasing. No. 928,667; July 20; Sp. p. 4094; Gaz. vol. 144; p. 713.
- Draft device. H. Barber. No. 937,037; Oct. 19; Sp. p. 2993; Gaz. vol. 147; p. 525.
- Draft device. C. P. Hansen. No. 941,920; Nov. 30; Sp. p. 7630; Gaz. vol. 148; p. 1285.
- Draft device for agricultural implements. J. A. Dietz. No. 919,551; Apr. 27; Sp. p. 5578; Gaz. vol. 141; p. 958.
- Draft-equalizer. H. J. Heider. (Reissue.) No. 12,909; Jan. 12; Sp. p. 2851; Gaz. vol. 138; p. 502.
- Draft-equalizer. N. Fryman. No. 912,461; Feb. 16; Sp. p. 2965; Gaz. vol. 139; p. 537.
- Draft-equalizer. F. G. Lewis. No. 915,614; Mar. 16; Sp. p. 4034; Gaz. vol. 140; p. 697.
- Draft-equalizer. J. O. Price. No. 916,194; Mar. 23; Sp. p. 5164; Gaz. vol. 140; p. 914.
- Draft-equalizer. W. W. Winger. No. 918,630; Apr. 20; Sp. p. 3429; Gaz. vol. 141; p. 618.
- Draft-equalizer. H. C. Scott. (Reissue.) No. 12,949; Apr. 27; Sp. p. 6759; Gaz. vol. 141; p. 1145.
- Draft-equalizer. V. H. Boring. No. 923,619; June 1; Sp. p. 1137; Gaz. vol. 143; p. 174.
- Draft-equalizer. E. Cook. No. 925,461; June 22; Sp. p. 4964; Gaz. vol. 143; p. 876.
- Draft-equalizer. J. R. Bouldin. No. 926,542; June 29; Sp. p. 7171; Gaz. vol. 143; p. 1267.
- Draft-equalizer. A. Hines. No. 931,925; Aug. 24; Sp. p. 4894; Gaz. vol. 145; p. 839.
- Draft-equalizer. F. E. Travis. No. 935,434; Sept. 28; Sp. p. 4940; Gaz. vol. 146; p. 872.
- Draft-equalizer. W. H. Schultz. No. 937,185; Oct. 19; Sp. p. 3300; Gaz. vol. 147; p. 574.
- Draft-equalizer. H. H. Dunnihoo. No. 937,365; Oct. 19; Sp. p. 3668; Gaz. vol. 147; p. 631.
- Draft-equalizer. D. Dellwo. No. 937,426; Oct. 19; Sp. p. 3829; Gaz. vol. 147; p. 652.
- Draft-equalizer. J. Van Matre. No. 937,895; Oct. 26; Sp. p. 4786; Gaz. vol. 147; p. 827.
- Draft-equalizer. L. E. Ward. No. 937,900; Oct. 26; Sp. p. 4792; Gaz. vol. 147; p. 829.
- Draft-equalizer. J. Van Matre. No. 937,975; Oct. 26; Sp. p. 4950; Gaz. vol. 147; p. 854.
- Draft-equalizer. A. V. Burke. No. 938,637; Nov. 2; Sp. p. 429; Gaz. vol. 148; p. 66.
- Draft-gear. A. L. Stanford. No. 927,382; July 6; Sp. p. 1357; Gaz. vol. 144; p. 225.
- Draft-gear. A. L. Stanford. No. 927,383; July 6; Sp. p. 1361; Gaz. vol. 144; p. 226.
- Draft-gear. H. T. Krakau. No. 936,547; Oct. 12; Sp. p. 2006; Gaz. vol. 147; p. 331.
- Draft-gear. T. H. Symington. No. 942,948; Dec. 14; Sp. p. 1964; Gaz. vol. 149; p. 341.
- Draft-gear and coupling. B. Banyay. No. 924,028; June 8; Sp. p. 2034; Gaz. vol. 143; p. 337.
- Draft-gear, Combined spring and friction. W. D. Wilcox. No. 932,215; Aug. 24; Sp. p. 5498; Gaz. vol. 145; p. 936.
- Draft-hook. G. Snell. No. 932,416; Aug. 24; Sp. p. 5873; Gaz. vol. 145; p. 1002.
- Draft-hook. D. P. Springer. No. 935,423; Sept. 28; Sp. p. 4916; Gaz. vol. 146; p. 869.
- Draft mechanism. H. Messman. No. 918,183; Apr. 13; Sp. p. 2470; Gaz. vol. 141; p. 442.
- Draft mechanism. C. E. Estabrook. No. 924,328; June 8; Sp. p. 2694; Gaz. vol. 143; p. 439.
- Draft-regulating apparatus. C. O. Mailloux and H. J. Westover. No. 935,763; Oct. 5; Sp. p. 300; Gaz. vol. 147; p. 48.
- Draft-regulator. H. D. Frymire, Jr. No. 936,111; Oct. 5; Sp. p. 1076; Gaz. vol. 147; p. 164.
- Draft-rigging. W. C. Hendryx. No. 910,816; Jan. 26; Sp. p. 4891; Gaz. vol. 138; p. 883.
- Draft-rigging. C. A. Tower. No. 914,089; Mar. 2; Sp. p. 934; Gaz. vol. 140; p. 147.
- Draft-rigging. J. F. O'Connor. No. 914,176; Mar. 2; Sp. p. 1123; Gaz. vol. 140; p. 175.
- Draft-rigging. W. S. Miller. No. 918,185; Apr. 13; Sp. p. 2476; Gaz. vol. 141; p. 443.
- Draft-rigging. W. S. Miller. No. 926,279; June 29; Sp. p. 6689; Gaz. vol. 143; p. 1180.
- Draft-rigging. W. H. Mussey. No. 926,351; June 29; Sp. p. 6836; Gaz. vol. 143; p. 1203.
- Draft-rigging. J. J. Dippel. No. 927,333; July 6; Sp. p. 1272; Gaz. vol. 144; p. 210.
- Draft-rigging, Bumper-beam. E. C. Washburn. No. 930,247; Aug. 3; Sp. p. 1282; Gaz. vol. 145; p. 211.
- Draft-rigging, Bumper-beam. E. C. Washburn. No. 930,248; Aug. 3; Sp. p. 1283; Gaz. vol. 145; p. 211.
- Draft-rigging finishing and proving machine, Friction-. J. F. O'Connor. No. 932,566; Aug. 31; Sp. p. 6212; Gaz. vol. 145; p. 1075.
- Draft-rigging, Friction. J. F. O'Connor. No. 911,901; Feb. 9; Sp. p. 1707; Gaz. vol. 139; p. 316.
- Draft-rigging, Friction. J. F. O'Connor. No. 911,902; Feb. 9; Sp. p. 1708; Gaz. vol. 139; p. 316.



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- Draft-rigging, Friction. J. F. O'Connor. No. 913,759; Mar. 2; Sp. p. 176; Gaz. vol. 140; p. 29.  
 Draft-rigging, Friction. C. A. Tower. No. 923,735; June 1; Sp. p. 1361; Gaz. vol. 143; p. 212.  
 Draft-rigging, Friction. C. J. Nash. No. 931,955; Aug. 24; Sp. p. 4960; Gaz. vol. 145; p. 850.  
 Draft-rigging, Friction. C. K. Brooks. No. 942,773; Dec. 7; Sp. p. 1533; Gaz. vol. 149; p. 251.  
 Draft-rigging, Frictional. C. A. Tower. No. 933,601; Sept. 7; Sp. p. 1315; Gaz. vol. 146; p. 194.  
 Draft-rigging mechanism. G. H. Forsyth. No. 925,167; June 15; Sp. p. 4409; Gaz. vol. 143; p. 753.  
 Draft-rigging, Tandem-spring. C. G. Harrington. No. 918,851; Apr. 20; Sp. p. 3934; Gaz. vol. 141; p. 693.  
 Draft-riggings, Machine for testing and registering operation of. J. F. O'Connor. No. 935,162; Sept. 28; Sp. p. 4398; Gaz. vol. 146; p. 785.  
 Draft-rollers, &c., Covering for. Z. T. Subers. No. 938,087; Oct. 26; Sp. p. 5205; Gaz. vol. 147; p. 892.  
 Draft-sill. J. Acker and C. L. Bundy. No. 935,449; Sept. 28; Sp. p. 4968; Gaz. vol. 146; p. 878.  
 Draft-ventilator. B. E. Cummings. No. 931,183; Aug. 17; Sp. p. 3292; Gaz. vol. 145; p. 573.  
 Drafting and engraving machine. H. S. Nunamaker. No. 943,886; Dec. 21; Sp. p. 3979; Gaz. vol. 149; p. 691.  
 Drafting instrument. J. Samsonoff. No. 918,599; Apr. 20; Sp. p. 3341; Gaz. vol. 141; p. 607.  
 Drafting-table. J. W. Fairbanks. No. 915,085; Mar. 16; Sp. p. 2940; Gaz. vol. 140; p. 523.  
 Drag. J. H. Manker. No. 916,745; Mar. 30; Sp. p. 6245; Gaz. vol. 140; p. 1118.  
 Drag. J. and A. Bladholm. No. 941,340; Nov. 23; Sp. p. 6365; Gaz. vol. 148; p. 1065.  
 Drag, Flexible road-. O. H. Gillespie. No. 919,428; Apr. 27; Sp. p. 5300; Gaz. vol. 141; p. 917.  
 Drag, Road-. D. C. Boyd. No. 920,422; May 4; Sp. p. 684; Gaz. vol. 142; p. 107.  
 Drag, Road-. D. C. Boyd. No. 924,311; June 8; Sp. p. 2663; Gaz. vol. 143; p. 433.  
 Drain-board. W. S. Johnson. No. 933,180; Sept. 7; Sp. p. 310; Gaz. vol. 146; p. 51.  
 Drain-board sanitary attachment. L. B. Wheeler. No. 921,192; May 11; Sp. p. 2243; Gaz. vol. 142; p. 394.  
 Drain connection. E. L. Dawes and J. C. Reed. No. 928,032; July 13; Sp. p. 2762; Gaz. vol. 144; p. 471.  
 Drain connection. E. L. Dawes. No. 930,845; Aug. 10; Sp. p. 2503; Gaz. vol. 145; p. 433.  
 Drain connection. E. L. Dawes and J. C. Reed. No. 931,019; Aug. 10; Sp. p. 2916; Gaz. vol. 145; p. 490.  
 Drain for counters, &c. E. C. Frost. No. 925,574; June 22; Sp. p. 5186; Gaz. vol. 143; p. 913.  
 Drain-inlet. J. and D. D. Friedman. No. 928,596; July 20; Sp. p. 3952; Gaz. vol. 144; p. 689.  
 Drain or sewer pipe. W. L. Jackson. No. 927,353; July 6; Sp. p. 1307; Gaz. vol. 144; p. 216.  
 Drain or similar pipe. E. Harpham. No. 929,941; Aug. 3; Sp. p. 679; Gaz. vol. 145; p. 108.  
 Drain or similar pipe. E. Harpham. No. 929,942; Aug. 3; Sp. p. 681; Gaz. vol. 145; p. 108.  
 Drain-pan. A. Johnson. No. 923,270; June 1; Sp. p. 379; Gaz. vol. 143; p. 52.  
 Drain-pipe, Metal. J. A. Sanders. No. 909,027; Jan. 5; Sp. p. 1217; Gaz. vol. 138; p. 195.  
 Drain-tile trimmer. A. Connor. No. 913,620; Feb. 23; Sp. p. 5377; Gaz. vol. 139; p. 950.  
 Drain-wheel. R. H. Martin. No. 924,684; June 15; Sp. p. 3421; Gaz. vol. 143; p. 588.  
 Drainage-level. P. Gutwein, Jr. No. 914,945; Mar. 9; Sp. p. 2685; Gaz. vol. 140; p. 450.  
 Drainage-venting system. J. L. Donat. No. 921,092; May 11; Sp. p. 2045; Gaz. vol. 142; p. 359.  
 Draining device. A. Thompson. No. 936,188; Oct. 5; Sp. p. 1233; Gaz. vol. 147; p. 186.  
 Draperies, &c., Device for use in making. W. K. Mallonee, F. Dannenberg, and F. P. Brehm. No. 918,348; Apr. 13; Sp. p. 2814; Gaz. vol. 141; p. 497.  
 Drapery or curtain pole fixture. J. W. Heinrichs. No. 917,601; Apr. 6; Sp. p. 1244; Gaz. vol. 141; p. 219.  
 Draw-bar and coupling, &c. D. A. York. No. 915,403; Mar. 16; Sp. p. 3602; Gaz. vol. 140; p. 627.  
 Draw-bar and draft attachment. W. Emberger. No. 938,133; Oct. 26; Sp. p. 5302; Gaz. vol. 147; p. 907.  
 Draw-bar carrier. A. D. McWhorter. No. 912,876; Feb. 16; Sp. p. 3839; Gaz. vol. 139; p. 676.  
 Draw-bar carrier. C. H. Tomlinson. No. 928,890; July 20; Sp. p. 4530; Gaz. vol. 144; p. 789.  
 Draw-bar carrier. C. H. Tomlinson. No. 934,375; Sept. 14; Sp. p. 2832; Gaz. vol. 146; p. 473.  
 Draw-bar, Railway. H. L. Allen. No. 915,722; Mar. 23; Sp. p. 4284; Gaz. vol. 140; p. 763.  
 Draw-bar safety device. B. G. Kitzmiller. No. 933,078; Sept. 7; Sp. p. 82; Gaz. vol. 146; p. 14.  
 Draw-bar slack-adjuster. E. Ryan. No. 929,114; July 27; Sp. p. 4993; Gaz. vol. 144; p. 888.  
 Draw-bars and yokes, Fastening device for. F. W. Wood and J. T. New. No. 937,402; Oct. 19; Sp. p. 3764; Gaz. vol. 147; p. 644.  
 Draw-box. E. H. Rooney. No. 920,655; May 4; Sp. p. 1139; Gaz. vol. 142; p. 184.  
 Draw-box. E. H. Rooney. (Reissue.) No. 13,041; Nov. 16; Sp. p. 4892; Gaz. vol. 148; p. 815.  
 Draw-gear apparatus. J. F. Courson. No. 931,682; Aug. 17; Sp. p. 4317; Gaz. vol. 145; p. 737.  
 Draw-gear or draft-rigging. A. E. Ostrander. No. 912,723; Feb. 16; Sp. p. 3548; Gaz. vol. 139; p. 628.  
 Draw-plates, Machine for polishing diamond. E. Schmidmer. No. 925,233; June 15; Sp. p. 4537; Gaz. vol. 143; p. 775.  
 Draw-string bag. F. Thompson. No. 916,802; Mar. 30; Sp. p. 6350; Gaz. vol. 140; p. 1035.  
 Drawer attachment, Desk. L. C. Walker and C. E. Wilson. No. 923,739; June 1; Sp. p. 1367; Gaz. vol. 143; p. 215.  
 Drawer, Drop-. H. Smithson. No. 912,328; Feb. 16; Sp. p. 2698; Gaz. vol. 139; p. 493.  
 Drawer for casings. J. H. Fasset. No. 921,212; May 11; Sp. p. 2287; Gaz. vol. 142; p. 401.  
 Drawer guide and stop. A. W. Green and W. Orth. No. 917,429; Apr. 6; Sp. p. 940; Gaz. vol. 141; p. 164.  
 Drawer-lock. E. C. Holland. No. 912,570; Feb. 16; Sp. p. 3206; Gaz. vol. 139; p. 574.  
 Drawer-pull. C. B. Adams. No. 934,258; Sept. 14; Sp. p. 2619; Gaz. vol. 146; p. 433.  
 Drawer-pulls and similar articles, Making. H. J. Bleaking. No. 919,815; Apr. 27; Sp. p. 6147; Gaz. vol. 141; p. 1048.  
 Drawer-stop. W. C. Heaney. No. 915,434; Mar. 16; Sp. p. 3661; Gaz. vol. 140; p. 637.  
 Drawer-support. H. B. Morse. No. 917,885; Apr. 13; Sp. p. 1861; Gaz. vol. 141; p. 339.  
 Drawers and suspensory, Combination. E. A. Melze. No. 925,121; June 15; Sp. p. 4322; Gaz. vol. 143; p. 736.  
 Drawing and spinning machines, Wire-board cleaner for. W. A. Nichols and T. P. Himes. No. 922,806; May 25; Sp. p. 5576; Gaz. vol. 142; p. 979.  
 Drawing-board attachment. M. R. Ethell. No. 932,690; Aug. 31; Sp. p. 6492; Gaz. vol. 145; p. 1118.  
 Drawing-frame stop-motion. J. T. Leach. No. 943,944; Dec. 21; Sp. p. 4114; Gaz. vol. 149; p. 713.  
 Drawing instrument. D. S. Clark. No. 924,734; June 15; Sp. p. 3524; Gaz. vol. 143; p. 605.  
 Drawing instrument. C. C. Page. No. 941,687; Nov. 30; Sp. p. 7117; Gaz. vol. 148; p. 1202.  
 Drawing instrument, Spiral and circle. W. Brierley. No. 925,748; June 22; Sp. p. 5556; Gaz. vol. 143; p. 969.  
 Drawing-press. W. Klocke. No. 924,672; June 15; Sp. p. 3399; Gaz. vol. 143; p. 585.  
 Drawing-table. E. C. Roberts. No. 919,245; Apr. 20; Sp. p. 4883; Gaz. vol. 141; p. 820.  
 Drawing-table. H. Cole. No. 922,565; May 25; Sp. p. 5085; Gaz. vol. 142; p. 902.  
 Drawing-table. G. H. Grove. No. 927,526; July 13; Sp. p. 1696; Gaz. vol. 144; p. 302.  
 Drawbridge. M. Waddell. No. 908,713; Jan. 5; Sp. p. 603; Gaz. vol. 138; p. 93.  
 Drawbridge-gate, Automatic. A. Lichtfuss. No. 931,439; Aug. 17; Sp. p. 3844; Gaz. vol. 145; p. 662.  
 Drawstring. I. A. Donohue. No. 912,830; Feb. 16; Sp. p. 3774; Gaz. vol. 139; p. 664.  
 Dredge. O. H. and A. L. Eliel. No. 918,302; Apr. 13; Sp. p. 2722; Gaz. vol. 141; p. 482.  
 Dredge. J. Carlésimo. No. 925,079; June 15; Sp. p. 4237; Gaz. vol. 143; p. 722.  
 Dredge. G. H. Johnson. No. 926,122; June 29; Sp. p. 6350; Gaz. vol. 143; p. 1127.  
 Dredge. J. Carlésimo. No. 934,593; Sept. 21; Sp. p. 3256; Gaz. vol. 146; p. 568.  
 Dredge. C. W. Diehl. No. 939,227; Nov. 9; Sp. p. 1691; Gaz. vol. 148; p. 294.  
 Dredge, Gold-. H. J. Clark. No. 909,063; Jan. 5; Sp. p. 1283; Gaz. vol. 138; p. 206.  
 Dredge, Hydraulic. W. Lytton. No. 929,613; July 27; Sp. p. 6014; Gaz. vol. 144; p. 1053.  
 Dredge, Oyster-. T. B. Webster. No. 929,355; July 27; Sp. p. 5542; Gaz. vol. 144; p. 971.  
 Dredge suction-mouthpiece. H. J. Clark. No. 909,062; Jan. 5; Sp. p. 1281; Gaz. vol. 138; p. 206.  
 Dredges, &c., Spud-brace for. G. W. King, H. G. Harding, and H. J. Barnhart. No. 918,864; Apr. 20; Sp. p. 3966; Gaz. vol. 141; p. 697.  
 Dredges, Swivel and extension connection for suction-pipes of hydraulic. J. W. Sackett. No. 933,116; Sept. 7; Sp. p. 163; Gaz. vol. 146; p. 28.  
 Dredger and excavator. W. A. Huelsdonk. No. 921,252; May 11; Sp. p. 2363; Gaz. vol. 142; p. 414.  
 Dredger, Caisson-. R. A. Gardner. No. 941,869; Nov. 30; Sp. p. 7533; Gaz. vol. 148; p. 1267.  
 Dredger for pulverulent material. C. B. Nesbitt. No. 924,491; June 8; Sp. p. 3009; Gaz. vol. 143; p. 491.  
 Dredger-head. R. A. Lowe. No. 915,454; Mar. 16; Sp. p. 3706; Gaz. vol. 140; p. 644.  
 Dredgers, excavators, &c., Tooth for steam. C. E. Gardner. No. 935,147; Sept. 28; Sp. p. 4376; Gaz. vol. 146; p. 781.  
 Dredging apparatus. J. Carlésimo. No. 909,543; Jan. 12; Sp. p. 2242; Gaz. vol. 138; p. 398.  
 Dredging-bucket. J. B. Rickards. No. 938,338; Oct. 26; Sp. p. 5744; Gaz. vol. 147; p. 978.  
 Dredging-machine. J. W. Singleton. No. 927,690; July 13; Sp. p. 2059; Gaz. vol. 144; p. 357.  
 Dress-fitting stand and skirt-marker. C. Newman. No. 930,559; Aug. 10; Sp. p. 1924; Gaz. vol. 145; p. 339.  
 Dress-form. C. A. Uford. No. 908,910; Jan. 5; Sp. p. 986; Gaz. vol. 138; p. 157.  
 Dress-shield. K. E. Allport. No. 919,299; Apr. 27; Sp. p. 5080; Gaz. vol. 141; p. 873.  
 Dress-shield. E. N. Gillard. No. 931,591; Aug. 17; Sp. p. 4114; Gaz. vol. 145; p. 708.  
 Dress-shield. R. S. Kleintert. No. 939,712; Nov. 9; Sp. p. 2786; Gaz. vol. 148; p. 460.

*Alphabetical list of inventions—Continued.*

- Dress-shield device. R. T. Grund. No. 944,090; Dec. 21; Sp. p. 4419; Gaz. vol. 149; p. 761.
- Dress-suit cases, traveling-bags, and the like. Handle-cap for. F. Waldschmitt, Jr. No. 933,936; Sept. 14; Sp. p. 1980; Gaz. vol. 146; p. 326.
- Dresser. F. O. Anderson. No. 924,872; June 15; Sp. p. 3821; Gaz. vol. 143; p. 653.
- Dressing-machine reel. R. Knebel. No. 940,603; Nov. 16; Sp. p. 4782; Gaz. vol. 148; p. 796.
- Dressing-stand. S. Reeves. No. 918,471; Apr. 13; Sp. p. 3058; Gaz. vol. 141; p. 537.
- Dressing-table. C. A. Warren. No. 915,913; Mar. 23; Sp. p. 4641; Gaz. vol. 140; p. 823.
- Dressmaker's gage and stand. W. A. De Garis. No. 914,931; Mar. 9; Sp. p. 2657; Gaz. vol. 140; p. 446.
- Drier; See Alfalfa-drier; Can-drier; Centrifugal drier; Clothes-drier; Grain-drier; Laundry-drier; Lumber-drier; Mechanical drier; Powder-drier; Sand-drier; Steam-drier; Veneer-drier.
- Drier. F. A. Hetherington. No. 913,497; Feb. 23; Sp. p. 5087; Gaz. vol. 139; p. 909.
- Drier. E. L. Wallace and F. Meyer. No. 922,070; May 18; Sp. p. 4068; Gaz. vol. 142; p. 711.
- Drier. F. Foster. No. 924,051; June 8; Sp. p. 2071; Gaz. vol. 143; p. 345.
- Drier. J. Judelson. No. 924,164; June 8; Sp. p. 2330; Gaz. vol. 143; p. 382.
- Drier. D. B. Plunkett. No. 924,272; June 8; Sp. p. 2574; Gaz. vol. 143; p. 419.
- Drier. H. W. Shepard. No. 928,706; July 20; Sp. p. 4162; Gaz. vol. 144; p. 725.
- Drier. T. M. Wilson. No. 930,587; Aug. 10; Sp. p. 1983; Gaz. vol. 145; p. 348.
- Drier. W. E. Koop. No. 931,695; Aug. 17; Sp. p. 4370; Gaz. vol. 145; p. 742.
- Drier. F. G. Sargent. No. 932,499; Aug. 31; Sp. p. 6072; Gaz. vol. 145; p. 1053.
- Drier. J. M. Urgelles. No. 934,772; Sept. 21; Sp. p. 3611; Gaz. vol. 146; p. 629.
- Drier. R. K. Meade. No. 937,255; Oct. 19; Sp. p. 3459; Gaz. vol. 147; p. 597.
- Drier. H. W. Shepard. No. 939,175; Nov. 2; Sp. p. 1551; Gaz. vol. 148; p. 251.
- Drier. C. E. Geiger. No. 940,144; Nov. 16; Sp. p. 3760; Gaz. vol. 148; p. 641.
- Drier. K. Tsujil. No. 940,908; Nov. 23; Sp. p. 5446; Gaz. vol. 148; p. 923.
- Drier. S. J. Vernsten. No. 944,707; Dec. 28; Sp. p. 5763; Gaz. vol. 149; p. 993.
- Drier-furnace. C. O. and E. Billow. No. 916,658; Mar. 30; Sp. p. 6094; Gaz. vol. 140; p. 1092.
- Drier, Sand-. J. A. Mumford. No. 915,787; Mar. 23; Sp. p. 4410; Gaz. vol. 140; p. 783.
- Dry battery. C. D. Enoch. No. 917,272; Apr. 6; Sp. p. 646; Gaz. vol. 141; p. 110.
- Dry-cell tester. E. S. Lincoln. No. 936,001; Oct. 5; Sp. p. 852; Gaz. vol. 147; p. 128.
- Dry-kiln, Superheated-steam. D. E. Lain. No. 918,334; Apr. 13; Sp. p. 2779; Gaz. vol. 141; p. 493.
- Dry-placer machine or concentrator. H. P. Curtis. No. 910,992; Jan. 26; Sp. p. 5204; Gaz. vol. 138; p. 938.
- Dry press, Knee-joint. J. Schüring, Jr. No. 919,781; Apr. 27; Sp. p. 6031; Gaz. vol. 141; p. 1037.
- Dry-room conveyer, Combined. W. Bartholomew. No. 940,661; Nov. 23; Sp. p. 4920; Gaz. vol. 148; p. 841.
- Dry-room hanger. W. Bartholomew. No. 924,722; June 15; Sp. p. 6503; Gaz. vol. 143; p. 602.
- Dry-room hanger. W. Bartholomew. No. 924,723; June 15; Sp. p. 3505; Gaz. vol. 143; p. 602.
- Dry separator. R. R. Snowden. No. 935,421; Sept. 28; Sp. p. 4913; Gaz. vol. 146; p. 868.
- Drying. C. W. Volney. No. 909,261; Jan. 12; Sp. p. 1691; Gaz. vol. 138; p. 305.
- Drying and grating apparatus. E. D. Hough and E. E. Wilson. No. 937,213; Oct. 19; Sp. p. 3358; Gaz. vol. 147; p. 583.
- Drying and grinding materials, Apparatus for. G. Suter. No. 932,727; Aug. 31; Sp. p. 6564; Gaz. vol. 145; p. 1131.
- Drying and heating apparatus. L. Türk. No. 931,098; Aug. 17; Sp. p. 3102; Gaz. vol. 145; p. 544.
- Drying and stretching frame. T. A. Hargrave. No. 919,007; Apr. 20; Sp. p. 4261; Gaz. vol. 141; p. 745.
- Drying apparatus. J. E. Kohn and J. B. Roos. No. 910,071; Jan. 19; Sp. p. 3296; Gaz. vol. 138; p. 608.
- Drying apparatus. R. Petersen. No. 910,720; Jan. 26; Sp. p. 4681; Gaz. vol. 138; p. 851.
- Drying apparatus. W. T. Griffin and B. W. Tucker. No. 916,437; Mar. 30; Sp. p. 5633; Gaz. vol. 140; p. 1021.
- Drying apparatus. R. Grauer. No. 920,050; Apr. 27; Sp. p. 6615; Gaz. vol. 141; p. 1125.
- Drying apparatus. C. T. Gilmore. No. 929,299; July 27; Sp. p. 5402; Gaz. vol. 144; p. 950.
- Drying apparatus. T. Howarth and J. V. Musgrave. No. 930,756; Aug. 10; Sp. p. 2330; Gaz. vol. 145; p. 404.
- Drying apparatus. A. Boleg. No. 932,106; Aug. 24; Sp. p. 5282; Gaz. vol. 145; p. 900.
- Drying apparatus. K. Gammel. No. 932,695; Aug. 31; Sp. p. 6501; Gaz. vol. 145; p. 1120.
- Drying apparatus for tea, grain, &c. S. C. Davidson. No. 940,237; Nov. 16; Sp. p. 3960; Gaz. vol. 148; p. 674.
- Drying apparatus, Hair and fur. E. Deslot. No. 941,980; Nov. 30; Sp. p. 7743; Gaz. vol. 148; p. 1304.
- Drying apparatus, Vacuum. E. W. Strohman. No. 921,307; May 11; Sp. p. 2483; Gaz. vol. 142; p. 431.
- Drying, finely-divided material, Apparatus for. R. S. Kent. No. 914,052; Mar. 2; Sp. p. 856; Gaz. vol. 140; p. 133.
- Drying-furnace. J. C. Kuebler. No. 919,598; Apr. 27; Sp. p. 5678; Gaz. vol. 141; p. 976.
- Drying-machine. J. H. Ryan and J. F. O'Toole. No. 913,774; Mar. 2; Sp. p. 206; Gaz. vol. 140; p. 34.
- Drying-machine. J. Black. No. 919,529; Apr. 27; Sp. p. 5535; Gaz. vol. 141; p. 951.
- Drying-machine. C. Jordan. No. 928,202; July 13; Sp. p. 3100; Gaz. vol. 144; p. 528.
- Drying-machine. J. P. Marshall. No. 943,691; Dec. 21; Sp. p. 3581; Gaz. vol. 149; p. 624.
- Drying-machine, Continuous-. J. Black, A. H. H., and A. B. Lennox. No. 921,351; May 11; Sp. p. 2594; Gaz. vol. 142; p. 447.
- Drying-machine, Hot-blast. W. H. Lamb. No. 920,585; May 4; Sp. p. 993; Gaz. vol. 142; p. 162.
- Drying materials with superheated steam. D. E. Lain. No. 918,335; Apr. 13; Sp. p. 2785; Gaz. vol. 141; p. 493.
- Drying mechanism. R. E. Valentine. No. 923,092; May 25; Sp. p. 6177; Gaz. vol. 142; p. 1072.
- Drying sheet material, Apparatus for. C. E. Moss. No. 941,721; Nov. 30; Sp. p. 7204; Gaz. vol. 148; p. 1214.
- Drying structural parts, Means for. A. Knäpen. No. 915,969; Mar. 23; Sp. p. 4753; Gaz. vol. 140; p. 841.
- Drying timber and other moisture-bearing substances, Rapidly. H. D. Liemann. No. 942,150; Dec. 7; Sp. p. 272; Gaz. vol. 149; p. 41.
- Drill; See Bit and pin-drill; Breast-drill; Coal-drill; Coal or rock drill; Core-drill; Disk drill; Electric drill; Grain-drill; Hammer-drill; Jetting-drill; Manure-drill; Mining-drill; Multiple drill; Pneumatic drill; Portable drill; Power-drill; Ratchet-drill; Rock-drill; Rotary drill; Seed-drill; Spiral drill; Stone-drill; Twist-drill; Well-drill.
- Drill. D. W. Rowlands. No. 909,124; Jan. 5; Sp. p. 1427; Gaz. vol. 138; p. 228.
- Drill. W. L. Harbert. No. 910,920; Jan. 26; Sp. p. 5076; Gaz. vol. 138; p. 915.
- Drill. J. A. Barr. No. 917,836; Apr. 13; Sp. p. 1755; Gaz. vol. 141; p. 332.
- Drill. M. Hardsocg. No. 923,513; June 1; Sp. p. 891; Gaz. vol. 143; p. 136.
- Drill. M. Hardsocg. No. 923,514; June 1; Sp. p. 894; Gaz. vol. 143; p. 136.
- Drill. H. R. Hughes. No. 930,758; Aug. 10; Sp. p. 2333; Gaz. vol. 145; p. 405.
- Drill. H. R. Hughes. No. 930,759; Aug. 10; Sp. p. 2336; Gaz. vol. 145; p. 405.
- Drill. W. C. Whitney. No. 938,534; Nov. 2; Sp. p. 215; Gaz. vol. 148; p. 31.
- Drill adjusting device, Grain-. W. F. Jacobs. No. 914,843; Mar. 9; Sp. p. 2501; Gaz. vol. 140; p. 418.
- Drill and cutting-machine. E. A. Cunningham. No. 929,399; July 27; Sp. p. 5614; Gaz. vol. 144; p. 984.
- Drill and socket. J. M. Goodwin. No. 928,749; July 20; Sp. p. 4248; Gaz. vol. 144; p. 740.
- Drill and stay-bolt cutter, Combined. F. Fleming. No. 941,568; Nov. 30; Sp. p. 6872; Gaz. vol. 148; p. 1164.
- Drill attachment, Ratchet-. A. F. Derrick and R. W. Garrison. No. 944,955; Dec. 28; Sp. p. 6284; Gaz. vol. 149; p. 1080.
- Drill-bit swaging and sharpening machine, Fluid-controlled. J. G. Leyner. No. 921,420; May 11; Sp. p. 2730; Gaz. vol. 142; p. 470.
- Drill-bit swaging and sharpening machine, Fluid-controlled. J. G. Leyner. No. 931,779; Aug. 24; Sp. p. 4567; Gaz. vol. 145; p. 793.
- Drill-brace. J. S. Glenn. No. 917,048; Apr. 6; Sp. p. 175; Gaz. vol. 141; p. 33.
- Drill-brace. J. Gessert. No. 924,901; June 15; Sp. p. 3882; Gaz. vol. 143; p. 662.
- Drill-brace. W. J. Parsons and J. A. Leland. No. 942,586; Dec. 7; Sp. p. 1157; Gaz. vol. 149; p. 188.
- Drill-chuck. B. B. Farnham. No. 914,255; Mar. 2; Sp. p. 1285; Gaz. vol. 140; p. 199.
- Drill, Combination machine-. C. J. Coulter. No. 929,563; July 27; Sp. p. 5895; Gaz. vol. 144; p. 1036.
- Drill-cup cleaner. L. D. Whitney. No. 935,873; Oct. 5; Sp. p. 593; Gaz. vol. 147; p. 85.
- Drill disks or plows, Means for raising and lowering. E. E. Burks. No. 911,474; Feb. 2; Sp. p. 852; Gaz. vol. 139; p. 150.
- Drill-driver, Portable. T. S. Watson. No. 933,144; Sept. 7; Sp. p. 216; Gaz. vol. 146; p. 37.
- Drill extension. H. J. Forster. No. 921,644; May 11; Sp. p. 3192; Gaz. vol. 142; p. 546.
- Drill-frame, Magnetic. W. Klouse and C. H. Brockett. No. 919,597; Apr. 27; Sp. p. 5676; Gaz. vol. 141; p. 976.
- Drill-guide. A. C. Neal. No. 942,581; Dec. 7; Sp. p. 1149; Gaz. vol. 149; p. 137.
- Drill-guide. A. C. Neal. No. 942,582; Dec. 7; Sp. p. 1150; Gaz. vol. 149; p. 137.
- Drill-head. O. E. Hendricks. No. 915,674; Mar. 16; Sp. p. 4182; Gaz. vol. 140; p. 721.
- Drill-holder. A. H. Knight. No. 935,035; Sept. 25; Sp. p. 4139; Gaz. vol. 146; p. 742.
- Drill lubrication, Rock-. J. A. Thompson and E. M. Mackie. No. 911,180; Feb. 2; Sp. p. 304; Gaz. vol. 139; p. 54.
- Drill-operating attachment. A. Belanger. No. 922,558; Mar. 25; Sp. p. 5066; Gaz. vol. 142; p. 900.
- Drill-press. C. J. Simmons. No. 916,621; Mar. 30; Sp. p. 6036; Gaz. vol. 140; p. 1082.
- Drill-press work-holder. P. E. Reece. No. 920,493; May 4; Sp. p. 802; Gaz. vol. 142; p. 130.
- Drill, Ratchet-. F. Armstrong. No. 914,012; Mar. 2; Sp. p. 782; Gaz. vol. 140; p. 120.
- Drill, Rock-. J. A. Traylor. No. 913,928; Mar. 2; Sp. p. 556; Gaz. vol. 140; p. 90.



*Alphabetical list of inventions—Continued.*

- Drill, Rock- T. E. Adams. No. 913,932; Mar. 2; Sp. p. 568; Gaz. vol. 140; p. 91.  
 Drill, Rock- T. E. Adams. No. 914,215; Mar. 2; Sp. p. 1190; Gaz. vol. 140; p. 137.  
 Drill-sharpener, Fluid-operated. J. G. Leyner. No. 917,777; Apr. 13; Sp. p. 1635; Gaz. vol. 141; p. 304.  
 Drill-socket. C. A. Simmons. No. 924,388; June 8; Sp. p. 2817; Gaz. vol. 143; p. 458.  
 Drill-socket. H. E. Bradley. No. 926,845; July 6; Sp. p. 296; Gaz. vol. 144; p. 47.  
 Drill-steel coupling. C. C. Hansen. No. 934,069; Sept. 14; Sp. p. 2242; Gaz. vol. 146; p. 369.  
 Drill-steel water attachment. J. H. Sinclair and G. D. Neill. No. 915,230; Mar. 16; Sp. p. 3263; Gaz. vol. 140; p. 570.  
 Drill-support, Electromagnetic. G. Boenig. No. 935,291; Sept. 28; Sp. p. 4655; Gaz. vol. 146; p. 827.  
 Drill-throttle, Reversible. R. A. Norling. No. 910,224; Jan. 19; Sp. p. 3628; Gaz. vol. 138; p. 659.  
 Drill, Turbo-pneumatic. J. W. Smith. No. 910,428; Jan. 19; Sp. p. 4082; Gaz. vol. 138; p. 731.  
 Drills or other apparatus, Carriage for portable pneumatic. R. H. Robinson. No. 934,418; Sept. 14; Sp. p. 2916; Gaz. vol. 146; p. 488.  
 Drilling and reaming device, Templet. W. Berger and E. H. Beazell. No. 913,455; Feb. 23; Sp. p. 5011; Gaz. vol. 139; p. 895.  
 Drilling apparatus. W. F. Bossert. No. 929,822; Aug. 3; Sp. p. 413; Gaz. vol. 145; p. 68.  
 Drilling apparatus, Tubular drill-stem for hydraulic rotary. L. C. Sands. No. 940,733; Nov. 23; Sp. p. 5080; Gaz. vol. 148; p. 866.  
 Drilling attachment for various classes of machines. F. E. Bocorselski. No. 938,113; Oct. 26; Sp. p. 5248; Gaz. vol. 147; p. 900.  
 Drilling engine, Rock. J. A. Traylor. No. 909,259; Jan. 12; Sp. p. 1687; Gaz. vol. 138; p. 304.  
 Drilling-machine. W. C. Brown and T. Johnson. No. 914,479; Mar. 9; Sp. p. 1739; Gaz. vol. 140; p. 298.  
 Drilling-machine. J. Petrie. No. 917,484; Apr. 6; Sp. p. 1034; Gaz. vol. 141; p. 130.  
 Drilling-machine. R. M. Downie. No. 921,630; May 18; Sp. p. 3284; Gaz. vol. 142; p. 584.  
 Drilling-machine. T. Hargie. No. 927,528; July 13; Sp. p. 1699; Gaz. vol. 144; p. 303.  
 Drilling-machine. C. B. Richards. No. 927,679; July 13; Sp. p. 2035; Gaz. vol. 144; p. 354.  
 Drilling-machine. H. E. Temple and O. L. Dosch. No. 931,001; Aug. 10; Sp. p. 2872; Gaz. vol. 145; p. 484.  
 Drilling-machine. C. B. Richards. No. 932,060; Aug. 24; Sp. p. 5191; Gaz. vol. 145; p. 885.  
 Drilling-machine. J. W. Green. No. 939,907; Nov. 9; Sp. p. 3206; Gaz. vol. 148; p. 528.  
 Drilling-machine. L. G. Sabbag. No. 944,915; Dec. 28; Sp. p. 6217; Gaz. vol. 149; p. 1069.  
 Drilling-machine attachment. C. E. Sprague and R. M. Elliott. No. 924,699; June 15; Sp. p. 3453; Gaz. vol. 143; p. 594.  
 Drilling-machine, Automatic. L. Reichert. No. 926,606; June 29; Sp. p. 7302; Gaz. vol. 143; p. 1288.  
 Drilling-machine, Multiple. G. R. Rich. No. 925,508; June 22; Sp. p. 5055; Gaz. vol. 143; p. 890.  
 Drilling-machine, Multiple. W. W. Vosper. No. 934,776; Sept. 21; Sp. p. 3616; Gaz. vol. 146; p. 630.  
 Drilling machine, Stay-bolt. J. Hocking. No. 931,119; Aug. 17; Sp. p. 3147; Gaz. vol. 145; p. 551.  
 Drilling machine, Stock-. E. Childs. No. 919,823; Apr. 27; Sp. p. 6157; Gaz. vol. 141; p. 1050.  
 Drilling-machine table. A. Davis. No. 935,470; Sept. 28; Sp. p. 5005; Gaz. vol. 146; p. 884.  
 Drilling-machine tapping attachment. R. Milne. No. 928,780; July 20; Sp. p. 4299; Gaz. vol. 144; p. 750.  
 Drilling-machines, Automatic feed-stop device for. A. W. Wigglesworth. No. 924,120; June 8; Sp. p. 2199; Gaz. vol. 143; p. 366.  
 Drilling-machines, Material-holder for. S. P. French. No. 935,010; Sept. 28; Sp. p. 4098; Gaz. vol. 146 p. 734.  
 Drilling stay-bolts and similar work, Machine for. J. A. Eden, Jr. No. 917,289; Apr. 6; Sp. p. 641; Gaz. vol. 141; p. 109.  
 Drilling, Tool for holding disks for. F. H. Oakman and H. A. Axtell. No. 928,275; July 20; Sp. p. 3308; Gaz. vol. 144; p. 584.  
 Drinking-cup. C. C. Sprinkle. No. 908,706; Jan. 5; Sp. p. 589; Gaz. vol. 138; p. 91.  
 Drinking-cup. A. Dacus. No. 921,514; May 11; Sp. p. 2923; Gaz. vol. 142; p. 501.  
 Drinking-fount, Poultry. C. F. Slifer. No. 932,590; Aug. 31; Sp. p. 6269; Gaz. vol. 145; p. 1084.  
 Drinking-fountain. P. S. Hamrick and S. B. Tobey. No. 915,855; Mar. 23; Sp. p. 4532; Gaz. vol. 140; p. 805.  
 Drinking-fountain. W. H. Densmore, Jr., and A. Hayton. No. 929,569; July 27; Sp. p. 5910; Gaz. vol. 144; p. 1038.  
 Drinking-fountain. C. A. Carothers. No. 940,266; May 4; Sp. p. 388; Gaz. vol. 142; p. 58.  
 Drinking-fountain, Automatic. K. Seiter. No. 908,506; Jan. 5; Sp. p. 150; Gaz. vol. 138; p. 27.  
 Drinking-fountain, Automatic. I. Baumgartner. No. 937,042; Oct. 19; Sp. p. 2999; Gaz. vol. 147; p. 526.  
 Drinking fountain for birds, fowls, and animals. W. B. Gething. No. 939,493; Nov. 9; Sp. p. 2310; Gaz. vol. 148; p. 385.  
 Drinking-fountain for poultry. W. S. Bandy. No. 926,538; June 29; Sp. p. 7162; Gaz. vol. 143; p. 1265.  
 Drinking-fountain, Poultry. H. B. Anderson. No. 928,836; July 20; Sp. p. 4413; Gaz. vol. 144; p. 769.  
 Drinking-fountain, Sanitary. L. A. Frazee. No. 937,588; Oct. 19; Sp. p. 4160; Gaz. vol. 147; p. 708.  
 Drinking-glass, Electrically-illuminated. J. H. Cahill. No. 919,691; Apr. 27; Sp. p. 5868; Gaz. vol. 141; p. 1007.  
 Drinking glasses, bowls, cups, spoons, &c., Labial protecting means for. L. Jancey. No. 939,698; Nov. 9; Sp. p. 2763; Gaz. vol. 148; p. 456;  
 Drinking-glasses, Sanitary mouthpiece for. F. E. Blenckstone. No. 924,135; June 8; Sp. p. 2228; Gaz. vol. 143; p. 371.  
 Drinking-trough. A. Durr. No. 933,635; Sept. 7; Sp. p. 1372; Gaz. vol. 146; p. 205.  
 Drinking-tube. J. L. Clarke. No. 942,306; Dec. 7; Sp. p. 595; Gaz. vol. 149; p. 94.  
 Drinking vessel, Sealed. J. C. Schleicher. No. 939,554; Nov. 9; Sp. p. 2444; Gaz. vol. 148; p. 405.  
 Drip-pan. B. F. Tracy. No. 918,396; Apr. 13; Sp. p. 2907; Gaz. vol. 141; p. 513.  
 Drip-pan. M. C. Smyth. No. 935,278; Sept. 28; Sp. p. 4630; Gaz. vol. 146; p. 823.  
 Drip-pan. J. Menzl and B. L. Schwartz. No. 940,040; Nov. 16; Sp. p. 3527; Gaz. vol. 148; p. 604.  
 Drip-receiver. H. O. Besette. No. 939,202; Nov. 9; Sp. p. 1623; Gaz. vol. 148; p. 287.  
 Drive, Four-wheel positive. O. A. Goodrich. No. 941,514; Nov. 30; Sp. p. 6770; Gaz. vol. 148; p. 1146.  
 Drive mechanism. C. Jensen. No. 930,861; Aug. 10; Sp. p. 2540; Gaz. vol. 145; p. 439.  
 Drive mechanism. C. Jensen. No. 934,534; Sept. 21; Sp. p. 3142; Gaz. vol. 146; p. 548.  
 Drive mechanism, Variable. S. B. Gray. No. 923,787; June 1; Sp. p. 1532; Gaz. vol. 143; p. 230.  
 Drive mechanism, Variable. S. B. Gray. No. 926,060; June 22; Sp. p. 6211; Gaz. vol. 143; p. 1072.  
 Drive-wheel. J. E. Osmer. No. 944,495; Dec. 28; Sp. p. 5306; Gaz. vol. 149; p. 925.  
 Drive-wheel. J. E. Osmer. No. 944,496; Dec. 28; Sp. p. 5307; Gaz. vol. 149; p. 926.  
 Drive-wheel, Traction-engine. A. C., J. M., H. E., and A. T. Johnson. No. 909,905; Jan. 19; Sp. p. 2976; Gaz. vol. 138; p. 552.  
 Driven mechanisms, Operating device for. R. D. Tittle. No. 938,726; Nov. 2; Sp. p. 598; Gaz. vol. 148; p. 94.  
 Driving and controlling device. W. A. Brauer. No. 936,298; Oct. 12; Sp. p. 1430; Gaz. vol. 147; p. 248.  
 Driving and reversing mechanism. F. Snow. No. 912,043; Feb. 9; Sp. p. 2090; Gaz. vol. 139; p. 363.  
 Driving and reversing mechanism. F. Snow. No. 912,044; Feb. 9; Sp. p. 2098; Gaz. vol. 139; p. 363.  
 Driving and reversing mechanism. F. Snow. No. 912,045; Feb. 9; Sp. p. 2106; Gaz. vol. 139; p. 363.  
 Driving and reversing mechanism. F. A. Thurston. No. 938,800; Nov. 2; Sp. p. 745; Gaz. vol. 148; p. 121.  
 Driving and reversing mechanism, Combined. C. G. Hawley. No. 911,978; Feb. 9; Sp. p. 1951; Gaz. vol. 139; p. 342.  
 Driving connection, Resilient. G. M. Eaton. No. 937,291; Oct. 19; Sp. p. 3521; Gaz. vol. 147; p. 608.  
 Driving connection, Resilient. J. E. Webster. No. 937,347; Oct. 19; Sp. p. 3642; Gaz. vol. 147; p. 626.  
 Driving mechanism. L. A. Hill. No. 915,858; Mar. 23; Sp. p. 4537; Gaz. vol. 140; p. 806.  
 Driving mechanism. T. E. Drohan. No. 919,836; Apr. 27; Sp. p. 6184; Gaz. vol. 141; p. 1055.  
 Driving mechanism. O. B. Woodrow. No. 921,195; May 11; Sp. p. 2248; Gaz. vol. 142; p. 395.  
 Driving mechanism. H. A. Sandor. No. 927,882; July 13; Sp. p. 2460; Gaz. vol. 144; p. 420.  
 Driving mechanism. E. P. Webster. No. 928,565; July 20; Sp. p. 3871; Gaz. vol. 144; p. 678.  
 Driving mechanism. N. Smelansky. No. 934,224; Sept. 14; Sp. p. 2555; Gaz. vol. 146; p. 422.  
 Driving mechanism. J. J. Walser. No. 940,095; Nov. 16; Sp. p. 3653; Gaz. vol. 148; p. 623.  
 Driving mechanism. H. F. Watson. No. 944,585; Dec. 28; Sp. p. 5519; Gaz. vol. 149; p. 958.  
 Driving-mechanism control. C. B. Stebbins. No. 944,293; Dec. 28; Sp. p. 4838; Gaz. vol. 149; p. 854.  
 Driving mechanism, Foot-power. J. F. Wilkinson. No. 927,201; July 6; Sp. p. 1036; Gaz. vol. 144; p. 167.  
 Driving mechanism, Friction. R. and J. Lusse. No. 939,046; Nov. 2; Sp. p. 1282; Gaz. vol. 148; p. 206.  
 Driving mechanism, Sliding friction. A. A. De Loach. No. 909,372; Jan. 12; Sp. p. 1907; Gaz. vol. 138; p. 341.  
 Driving mechanism, Variable-speed. R. M. Ruck. No. 912,736; Feb. 16; Sp. p. 3586; Gaz. vol. 139; p. 633.  
 Driving mechanism, Variable-speed. P. T. Kenny. No. 936,326; Oct. 12; Sp. p. 1493; Gaz. vol. 147; p. 258.  
 Driving mechanism, Variable-speed. J. J. Walser. No. 940,096; Nov. 16; Sp. p. 3662; Gaz. vol. 148; p. 624.  
 Driving mechanism, Variable-speed. H. C. Schroeder. No. 940,201; Nov. 16; Sp. p. 3896; Gaz. vol. 148; p. 661.  
 Driving mechanism, Variable-speed. J. J. Walser. No. 940,626; Nov. 16; Sp. p. 4825; Gaz. vol. 148; p. 804.  
 Driving mechanism, Variable-speed. A. L. De Leeuw. No. 943,142; Dec. 14; Sp. p. 2408; Gaz. vol. 149; p. 409.  
 Drop-light, Adjustable. P. F. Wagner. No. 929,639; July 27; Sp. p. 6075; Gaz. vol. 144; p. 1062.  
 Drop-light bracket, Adjustable. P. L. Tenney. No. 931,162; Aug. 17; Sp. p. 3251; Gaz. vol. 145; p. 567.  
 Drop-light, Extensible. G. Wedderburn. No. 929,060; July 27; Sp. p. 4881; Gaz. vol. 144; p. 871.  
 Drop-lights, Adjustable support for. P. Frantz. No. 921,970; May 18; Sp. p. 3876; Gaz. vol. 142; p. 678.  
 Dropper: See Can-cap dropper; Fence-dropper; Fertilizer-dropper; Liquid-dropper; Trellis-wire dropper.  
 Drum. A. D. Converse. No. 928,741; July 20; Sp. p. 4236; Gaz. vol. 144; p. 738.  
 Drum. B. Walberg. No. 929,175; July 27; Sp. p. 5117; Gaz. vol. 144; p. 909.  
 Drum and cymbal beater. E. M. Anderson. No. 924,302; June 8; Sp. p. 2639; Gaz. vol. 143; p. 429.



*Alphabetical list of inventions—Continued.*

- Drum and cymbal beater, Bass-. A. C. Schipper. No. 938,899; Nov. 2; Sp. p. 989; Gaz. vol. 148; p. 155.  
 Drum and cymbal playing apparatus. W. F. Ludwig. No. 922,706; May 25; Sp. p. 5375; Gaz. vol. 142; p. 947.  
 Drum batch-mixer. W. R. Tuttle. No. 939,762; Nov. 9; Sp. p. 2914; Gaz. vol. 148; p. 479.  
 Drum-beater. C. W. and A. H. Nuss. No. 912,404; Feb. 16; Sp. p. 2854; Gaz. vol. 139; p. 518.  
 Drum, Ear-. A. O. Leonard. No. 916,566; Mar. 30; Sp. p. 5927; Gaz. vol. 140; p. 1063.  
 Drum for hoisting mechanisms, &c. J. R. McGiffert. No. 916,581; Mar. 30; Sp. p. 5955; Gaz. vol. 140; p. 1068.  
 Drum, Heating-. W. S. Keyser. No. 927,356; July 6; Sp. p. 1310; Gaz. vol. 144; p. 217.  
 Drum, Heating-. D. D. Harr. No. 930,663; Aug. 10; Sp. p. 2140; Gaz. vol. 145; p. 373.  
 Drum, Mixing-. J. W. Cumisky. No. 928,850; July 20; Sp. p. 4435; Gaz. vol. 144; p. 773.  
 Drum snare-strainer. J. E. Lynehan. No. 911,890; Feb. 9; Sp. p. 1691; Gaz. vol. 139; p. 313.  
 Drum snare-strainer and muffler. W. F. McIntosh. No. 911,605; Feb. 9; Sp. p. 11374; Gaz. vol. 139; p. 219.  
 Drum, Toy. E. Wolff. No. 913,796; Mar. 2; Sp. p. 254; Gaz. vol. 140; p. 42.  
 Drum, Winding-. F. Donaldson. No. 909,768; Jan. 12; Sp. p. 2686; Gaz. vol. 138; p. 474.  
 Drummers' samples for textile fabrics, Manufacturing. A. C. Korcinek. No. 918,169; Apr. 13; Sp. p. 2448; Gaz. vol. 141; p. 439.  
 Dumb-bell. B. S. Whitney. No. 916,813; Mar. 30; Sp. p. 6371; Gaz. vol. 140; p. 1138.  
 Dumb-waiter. J. M. Gotshall. No. 928,960; July 27; Sp. p. 4669; Gaz. vol. 144; p. 837.  
 Dumb-waiter or elevator. C. A. Sturm and R. N. Flack. No. 929,342; July 27; Sp. p. 5517; Gaz. vol. 144; p. 966.  
 Dumping device. A. E. Hoermann. No. 915,179; Mar. 16; Sp. p. 3158; Gaz. vol. 140; p. 554.  
 Dumping device, Automatic skip or bucket. T. O. Werner. No. 930,253; Aug. 3; Sp. p. 1288; Gaz. vol. 145; p. 212.  
 Dumping device, End-. L. P. Yale and H. E. Reagan. No. 914,004; Mar. 2; Sp. p. 736; Gaz. vol. 140; p. 117.  
 Dumping-elevator. E. B. Symons. No. 926,909; July 6; Sp. p. 427; Gaz. vol. 144; p. 69.  
 Dumping-elevator, Automatic. G. E. Richmond. No. 940,065; Nov. 16; Sp. p. 3587; Gaz. vol. 148; p. 613.  
 Duplex or master-key lock. P. F. Augenbraun. No. 912,773; Feb. 16; Sp. p. 3671; Gaz. vol. 139; p. 645.  
 Duplicating apparatus, Stencil-. A. B. Dick. No. 922,862; May 25; Sp. p. 5700; Gaz. vol. 142; p. 999.  
 Duplicating-machine. H. C. Harris. No. 921,244; May 11; Sp. p. 2349; Gaz. vol. 142; p. 412.  
 Duplicating-machine, Rotary. C. A. Glover and J. C. Hunter. No. 908,990; Jan. 5; Sp. p. 1156; Gaz. vol. 138; p. 183.  
 Duplicating or printing machine. J. D. Havens and H. M. Page. No. 935,604; Sept. 28; Sp. p. 5300; Gaz. vol. 146; p. 930.  
 Dust and hardening road-beds, Composition for laying road-. C. Ellis. No. 943,667; Dec. 21; Sp. p. 3543; Gaz. vol. 149; p. 617.  
 Dust-catcher. J. Kennedy. No. 933,566; Sept. 7; Sp. p. 1237; Gaz. vol. 146; p. 182.  
 Dust collecting and absorbing substance. J. A. Duffy. No. 913,476; Feb. 23; Sp. p. 5045; Gaz. vol. 139; p. 902.  
 Dust-collector. H. A. Knos. No. 909,425; Jan. 12; Sp. p. 2010; Gaz. vol. 138; p. 357.  
 Dust-collector. A. T. Noe. No. 918,895; Apr. 20; Sp. p. 4036; Gaz. vol. 141; p. 708.  
 Dust-collector. A. T. Noe. No. 918,897; Apr. 20; Sp. p. 4040; Gaz. vol. 141; p. 709.  
 Dust-collector. F. J. Matchette. No. 926,070; June 22; Sp. p. 6242; Gaz. vol. 143; p. 1076.  
 Dust-collector. O. M. Morse. No. 926,206; June 29; Sp. p. 6546; Gaz. vol. 143; p. 1157.  
 Dust-collector. G. Szesny. No. 935,066; Sept. 28; Sp. p. 4215; Gaz. vol. 146; p. 754.  
 Dust-collector. U. Joedicke. No. 935,658; Oct. 5; Sp. p. 66; Gaz. vol. 147; p. 13.  
 Dust-collector. O. M. Morse. No. 942,657; Dec. 7; Sp. p. 1301; Gaz. vol. 149; p. 213.  
 Dust-collector. O. M. Morse. No. 943,439; Dec. 14; Sp. p. 3009; Gaz. vol. 149; p. 508.  
 Dust collector and separator. E. H. Frickey. No. 938,656; Nov. 2; Sp. p. 471; Gaz. vol. 148; p. 72.  
 Dust collector and separator. O. Porbeck. No. 938,702; Nov. 2; Sp. p. 556; Gaz. vol. 148; p. 87.  
 Dust collector and separator. A. T. Sheward. No. 940,827; Nov. 23; Sp. p. 5289; Gaz. vol. 148; p. 897.  
 Dust detonations, Device for preventing. P. Schuster. No. 940,075; Nov. 16; Sp. p. 3617; Gaz. vol. 148; p. 617.  
 Dust-extractor, Portable vacuum. C. J. Harvey. No. 908,992; Jan. 5; Sp. p. 1159; Gaz. vol. 138; p. 184.  
 Dust-guard. A. E. Smith. No. 925,141; June 15; Sp. p. 4359; Gaz. vol. 143; p. 744.  
 Dust-guard. W. N. Bailey. No. 929,373; July 27; Sp. p. 5572; Gaz. vol. 144; p. 977.  
 Dust laying, collecting, or absorbing composition. S. C. D. T., and J. C. Punch. No. 944,276; Dec. 28; Sp. p. 4811; Gaz. vol. 149; p. 849.  
 Dust-pan. J. W. and H. L. Christy. No. 910,116; Jan. 19; Sp. p. 3380; Gaz. vol. 138; p. 621.  
 Dust-pan. C. Gabel. No. 914,484; Mar. 9; Sp. p. 1748; Gaz. vol. 140; p. 300.  
 Dust-pan. A. W. Devol. No. 926,927; July 6; Sp. p. 461; Gaz. vol. 144; p. 75.  
 Dust-pan. P. E. Hawkinson. No. 931,867; Aug. 24; Sp. p. 4742; Gaz. vol. 145; p. 821.  
 Dust-pan. J. Gugora and C. D. Flamm. No. 934,909; Sept. 21; Sp. p. 3879; Gaz. vol. 146; p. 674.  
 Dust-pan. W. E. Ballman. No. 940,422; Nov. 16; Sp. p. 4407; Gaz. vol. 148; p. 737.  
 Dust-pan. G. Lotze. No. 944,490; Dec. 28; Sp. p. 5292; Gaz. vol. 149; p. 923.  
 Dust-pan attachment. C. W. Grobe. No. 924,059; June 8; Sp. p. 2082; Gaz. vol. 143; p. 347.  
 Dust-pan, Convertible. A. S. Epperson. No. 936,990; Oct. 12; Sp. p. 2872; Gaz. vol. 147; p. 480.  
 Dust, Pneumatic device for collecting and removing. A. E. Moorhead. No. 925,646; June 22; Sp. p. 5346; Gaz. vol. 143; p. 936.  
 Dust-receiver. S. W. Ogden. No. 916,767; Mar. 30; Sp. p. 6282; Gaz. vol. 140; p. 1123.  
 Dust, Reclaiming or recovering values from. N. H. Livingston. No. 943,752; Dec. 21; Sp. p. 3711; Gaz. vol. 149; p. 645.  
 Dust-removing apparatus, Dry separator for. R. F. Diserens. No. 932,686; Aug. 31; Sp. p. 6480; Gaz. vol. 145; p. 1117.  
 Dust-removing apparatus, Wet separator for. R. F. Diserens. No. 942,891; Dec. 14; Sp. p. 1828; Gaz. vol. 149; p. 322.  
 Dust-removing pneumatic machine. J. R. Blum. No. 917,993; Apr. 13; Sp. p. 2108; Gaz. vol. 141; p. 378.  
 Dust-separating tank. D. Fogarty. No. 940,141; Nov. 16; Sp. p. 3756; Gaz. vol. 148; p. 640.  
 Dust-separator. C. H. Keeney. No. 912,686; Feb. 16; Sp. p. 3446; Gaz. vol. 139; p. 615.  
 Dust through the application to roads or road material of an aqueous emulsion of oil, Preventing and laying of. W. M. Sandison. (Reissue.) No. 13,024; Sept. 28; Sp. p. 5356; Gaz. vol. 146; p. 940.  
 Duster. R. S. Melchers. No. 942,507; Dec. 7; Sp. p. 1007; Gaz. vol. 149; p. 162.  
 Duster, Automatic fowl-. O. E. Buffum. No. 944,072; Dec. 21; Sp. p. 4383; Gaz. vol. 149; p. 755.  
 Dusting and sweeping appliance, Pneumatic. C. J. Harvey. No. 912,956; Feb. 16; Sp. p. 3982; Gaz. vol. 139; p. 701.  
 Dye and making, Azo. P. Julius and L. Blangey. No. 932,289; Aug. 24; Sp. p. 5641; Gaz. vol. 145; p. 962.  
 Dye and making, Galloxyanin. W. Lommel. No. 936,247; Oct. 5; Sp. p. 1330; Gaz. vol. 147; p. 205.  
 Dye and making same, Anthracene. M. H. Isler. No. 909,800; Jan. 12; Sp. p. 2753; Gaz. vol. 138; p. 485.  
 Dye and making same, Anthracene. M. Isler. No. 922,282; May 18; Sp. p. 4498; Gaz. vol. 142; p. 780.  
 Dye and making same, Anthracene. M. H. Isler. No. 929,442; July 27; Sp. p. 5677; Gaz. vol. 144; p. 997.  
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 Dye and making same, Anthracene. F. Kacer. No. 931,618; Aug. 17; Sp. p. 4180; Gaz. vol. 145; p. 717.  
 Dye and making same, Azin. P. Ott. No. 940,354; Nov. 16; Sp. p. 4232; Gaz. vol. 148; p. 714.  
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 Dye and making same, Azo. P. Julius and E. Fussenegger. No. 914,146; Mar. 2; Sp. p. 1048; Gaz. vol. 140; p. 166.  
 Dye and making same, Azo. C. Jagerspacher. No. 916,161; Mar. 23; Sp. p. 5109; Gaz. vol. 140; p. 904.  
 Dye and making same, Azo. P. Julius, E. Fussenegger, and L. Blangey. No. 921,546; May 11; Sp. p. 2977; Gaz. vol. 142; p. 511.  
 Dye and making same, Azo. C. O. Müller. No. 941,088; Nov. 23; Sp. p. 5829; Gaz. vol. 148; p. 984.  
 Dye and making same, Blue sulfur. L. Haas. No. 919,572; Apr. 27; Sp. p. 5625; Gaz. vol. 141; p. 966.  
 Dye and making same, Brown anthraquinone. R. Uhlenhuth. No. 943,717; Dec. 21; Sp. p. 3647; Gaz. vol. 149; p. 633.  
 Dye and making same, Brown vat. A. Schaarschmidt and B. Mayer. No. 915,385; Mar. 16; Sp. p. 3571; Gaz. vol. 140; p. 621.  
 Dye and making same, Brown vat. G. Engi and H. Kappeler. No. 940,586; Nov. 16; Sp. p. 4752; Gaz. vol. 148; p. 791.  
 Dye and making same, Galloxyanin. W. Lommel. No. 936,248; Oct. 5; Sp. p. 1332; Gaz. vol. 147; p. 205.  
 Dye and making same, Gray vat. J. Hoffmann. No. 916,154; Mar. 23; Sp. p. 5094; Gaz. vol. 140; p. 902.  
 Dye and making same, Monoazo. W. König. No. 908,580; Jan. 5; Sp. p. 306; Gaz. vol. 138; p. 52.  
 Dye and making same, Orange lake. R. Lauch. No. 912,138; Feb. 9; Sp. p. 2271; Gaz. vol. 139; p. 393.  
 Dye and making same, Orange to red tetrazo. A. Schedler. No. 936,367; Oct. 12; Sp. p. 1601; Gaz. vol. 147; p. 272.  
 Dye and making same, Red cotton. R. Schüle. No. 912,182; Feb. 9; Sp. p. 2351; Gaz. vol. 139; p. 406.  
 Dye and making same, Red disazo. A. Schedler. No. 943,470; Dec. 14; Sp. p. 3083; Gaz. vol. 149; p. 519.  
 Dye and making same, Red vat. G. Engi. No. 923,959; June 8; Sp. p. 1899; Gaz. vol. 143; p. 317.  
 Dye and making same, Red-violet. A. Schmidt and E. Bryk. No. 916,029; Mar. 23; Sp. p. 4868; Gaz. vol. 140; p. 862.  
 Dye and making same, Sulfur. E. S. Chapin. No. 909,151; Jan. 12; Sp. p. 1492; Gaz. vol. 138; p. 271.  
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- Dye and making same, Vat. H. Kraft. No. 941,152; Nov. 23; Sp. p. 5979; Gaz. vol. 148; p. 1005.
- Dye and making, Yellow. E. Fussenecker. No. 932,266; Aug. 24; Sp. p. 5593; Gaz. vol. 145; p. 954.
- Dye, Azo. A. Bergdolt. No. 912,356; Feb. 16; Sp. p. 2753; Gaz. vol. 139; p. 501.
- Dye, Azo. H. Jordan and W. Neelmeier. No. 916,323; Mar. 23; Sp. p. 5395; Gaz. vol. 140; p. 958.
- Dye, Azo. O. Günther and L. Hesse. No. 921,105; May 11; Sp. p. 2068; Gaz. vol. 142; p. 364.
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- Dye, Azo. J. Jansen and W. Neelmeier. No. 924,231; June 8; Sp. p. 2497; Gaz. vol. 143; p. 405.
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- Dye, Azo. F. Runkel and M. Herzberg. No. 932,813; Aug. 31; Sp. p. 6750; Gaz. vol. 145; p. 1158.
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- Dye, Azo. J. Jansen and W. Neelmeier. No. 933,841; Sept. 14; Sp. p. 1801; Gaz. vol. 146; p. 297.
- Dye, Azo. J. Jansen and W. Neelmeier. No. 933,842; Sept. 14; Sp. p. 1802; Gaz. vol. 146; p. 297.
- Dye, Azo. O. Günther and L. Hesse. No. 935,018; Sept. 28; Sp. p. 4107; Gaz. vol. 146; p. 736.
- Dye, Azo. M. Kahn and A. Ossennebeck. No. 935,031; Sept. 28; Sp. p. 4132; Gaz. vol. 146; p. 740.
- Dye, Azo. P. Julius and E. Fussenecker. No. 935,371; Sept. 28; Sp. p. 4822; Gaz. vol. 146; p. 853.
- Dye, Azo. P. Volkmann. No. 935,830; Oct. 5; Sp. p. 497; Gaz. vol. 147; p. 71.
- Dye, Azo. J. Jansen and W. Neelmeier. No. 936,321; Oct. 12; Sp. p. 1483; Gaz. vol. 147; p. 256.
- Dye, Azo. M. Kahn. No. 936,456; Oct. 12; Sp. p. 1812; Gaz. vol. 147; p. 301.
- Dye, Azo. O. Schmidt. No. 936,951; Oct. 12; Sp. p. 2799; Gaz. vol. 147; p. 468.
- Dye, Azo. E. Ulrichs. No. 937,741; Oct. 19; Sp. p. 4460; Gaz. vol. 147; p. 756.
- Dye, Brown sulfur. R. Gley and P. Dieterle. No. 934,302; Sept. 14; Sp. p. 2699; Gaz. vol. 146; p. 448.
- Dye, Disazo. F. Runkel and M. Herzberg. No. 932,812; Aug. 31; Sp. p. 6749; Gaz. vol. 145; p. 1157.
- Dye, Disazo. C. Heidenreich. No. 944,328; Dec. 28; Sp. p. 4920; Gaz. vol. 149; p. 867.
- Dye for lakes and making same, Red azo. W. König. No. 942,916; Dec. 14; Sp. p. 1896; Gaz. vol. 149; p. 331.
- Dye-jigger. F. Shaw. No. 937,652; Oct. 19; Sp. p. 4267; Gaz. vol. 147; p. 728.
- Dye, Making red azo. E. Ulrichs. No. 936,260; Oct. 5; Sp. p. 1355; Gaz. vol. 147; p. 209.
- Dye, Mordant-dyeing azo. E. Geldermann. No. 943,536; Dec. 14; Sp. p. 3226; Gaz. vol. 149; p. 543.
- Dye, Olive sulfur. R. Gley and P. Dieterle. No. 934,303; Sept. 14; Sp. p. 2700; Gaz. vol. 146; p. 448.
- Dye, Red. W. König. No. 913,513; Feb. 23; Sp. p. 5116; Gaz. vol. 139; p. 914.
- Dye, Red. W. König. No. 913,514; Feb. 23; Sp. p. 5117; Gaz. vol. 139; p. 914.
- Dye, Red mono-azo. E. Ulrichs. No. 911,186; Feb. 2; Sp. p. 318; Gaz. vol. 139; p. 56.
- Dye, Sulfur. J. Flachslaender. No. 935,009; Sept. 28; Sp. p. 4097; Gaz. vol. 146; p. 734.
- Dye, Trisazo. H. Jordan and W. Neelmeier. No. 920,151; May 4; Sp. p. 117; Gaz. vol. 142; p. 18.
- Dye, Vat. P. Thomaschewski. No. 928,891; July 20; Sp. p. 4531; Gaz. vol. 144; p. 789.
- Dye, Vat. J. Deinet. No. 935,590; Sept. 28; Sp. p. 5276; Gaz. vol. 146; p. 925.
- Dye, Vat. J. Deinet. No. 935,781; Oct. 5; Sp. p. 359; Gaz. vol. 147; p. 54.
- Dye, Vat. P. Thomaschewski. No. 935,827; Oct. 5; Sp. p. 493; Gaz. vol. 147; p. 70.
- Dye, Vat. L. Wolman. No. 935,878; Oct. 5; Sp. p. 600; Gaz. vol. 147; p. 86.
- Dye, Vat. P. Fischer. No. 938,565; Nov. 2; Sp. p. 287; Gaz. vol. 148; p. 42.
- Dye, Yellow. O. Günther and L. Hesse. No. 935,016; Sept. 28; Sp. p. 4106; Gaz. vol. 146; p. 736.
- Dye, Yellow. P. Fischer. No. 938,566; Nov. 2; Sp. p. 288; Gaz. vol. 148; p. 42.
- Dye, Yellow azo. O. Günther and L. Hesse. No. 935,017; Sept. 28; Sp. p. 4106; Gaz. vol. 146; p. 736.
- Dye, Yellow azo. P. Volkmann. No. 935,829; Oct. 5; Sp. p. 496; Gaz. vol. 147; p. 71.
- Dyes and making them, Pyrazolone. P. Julius and E. Fussenecker. No. 935,370; Sept. 28; Sp. p. 4820; Gaz. vol. 146; p. 852.
- Dyes, Lake from sulfonated azo. E. Würthner. No. 918,244; Apr. 13; Sp. p. 2622; Gaz. vol. 141; p. 464.
- Dyeing. F. H. Daniell and J. C. Hebdon. No. 942,166; Dec. 7; Sp. p. 305; Gaz. vol. 149; p. 46.
- Dyeing apparatus. T. Allsop and W. W. Sibson. No. 918,485; Apr. 13; Sp. p. 3086; Gaz. vol. 141; p. 542.
- Dyeing apparatus. R. Diederichs. No. 923,342; June 1; Sp. p. 538; Gaz. vol. 143; p. 77.
- Dyeing apparatus, Hat-. F. Bauer. No. 938,738; Nov. 2; Sp. p. 622; Gaz. vol. 148; p. 98.
- Dyeing apparatus, Yarn-. C. Corron. No. 915,939; Mar. 23; Sp. p. 4683; Gaz. vol. 140; p. 831.
- Dyeing apparatus, Yarn-. J. Kershaw and J. T. Cole. No. 934,543; Sept. 21; Sp. p. 3159; Gaz. vol. 146; p. 551.
- Dyeing apparatus, Yarn-. F. Geissler and B. Wagner. No. 940,868; Nov. 23; Sp. p. 5373; Gaz. vol. 148; p. 910.
- Dyeing, bleaching, and washing machine. N. Labonty. No. 929,314; July 27; Sp. p. 5441; Gaz. vol. 144; p. 957.
- Dyeing, bleaching, &c., Apparatus for. A. W. Thompson. No. 926,782; July 6; Sp. p. 146; Gaz. vol. 144; p. 24.
- Dyeing-machine. W. Erler. No. 913,274; Feb. 23; Sp. p. 4644; Gaz. vol. 139; p. 833.
- Dyeing-machine. C. J. McNamara. No. 918,767; Apr. 20; Sp. p. 3752; Gaz. vol. 141; p. 666.
- Dyeing-machine. J. Richardson and J. F. Neef. No. 927,599; July 13; Sp. p. 1854; Gaz. vol. 144; p. 327.
- Dyeing-machine, Circulating. T. Allsop and W. W. Sibson. No. 918,484; Apr. 13; Sp. p. 3080; Gaz. vol. 141; p. 541.
- Dyeing-machine reversing mechanism. G. E. Drum and R. P. Smith. No. 917,026; Apr. 6; Sp. p. 137; Gaz. vol. 141; p. 26.
- Dyeing, Preparation of the indigo-vat employed in. H. Chaumant. (Reissue.) No. 12,946; Apr. 27; Sp. p. 6752; Gaz. vol. 141; p. 1143.
- Dyeing with galloxyanin dyestuffs, Vat-. J. Bierer and H. Loréstan. No. 943,375; Dec. 14; Sp. p. 2886; Gaz. vol. 149; p. 485.
- Dyeing wool. H. Winslow. No. 941,399; Nov. 30; Sp. p. 6527; Gaz. vol. 148; p. 1109.
- Dyeing, Yarn-support for. J. C. Hebdon and F. H. Daniell. No. 942,856; Dec. 7; Sp. p. 1715; Gaz. vol. 149; p. 278.
- Dyeing yarns, fabrics, and the like, Apparatus for. C. Corron. No. 929,562; July 27; Sp. p. 5893; Gaz. vol. 144; p. 1036.
- Dynamite and other explosives, Means for detonating. F. Wells and C. E. Potts. No. 918,907; Apr. 20; Sp. p. 4064; Gaz. vol. 141; p. 713.
- Dynamite-heater. A. H. Vannauker. No. 911,463; Feb. 2; Sp. p. 834; Gaz. vol. 139; p. 146.
- Dynamite-heater. A. H. Vannauker. No. 929,902; Aug. 3; Sp. p. 606; Gaz. vol. 145; p. 95.
- Dynamite, Machine for packing explosive gelatin. W. I. Donaldson. No. 914,396; Mar. 9; Sp. p. 1586; Gaz. vol. 140; p. 270.
- Dynamite, Machine for packing gelatin. T. W. Bachus. No. 929,815; Aug. 3; Sp. p. 397; Gaz. vol. 145; p. 66.
- Dynamite-shell-machine folder. J. A. Johnston. No. 914,578; Mar. 9; Sp. p. 1939; Gaz. vol. 140; p. 331.
- Dynamo and motor brush-spring. J. H. Poole. No. 913,562; Feb. 23; Sp. p. 5261; Gaz. vol. 139; p. 931.
- Dynamo-brushes, &c., Manufacturing. G. Egly. No. 942,379; Dec. 7; Sp. p. 723; Gaz. vol. 149; p. 118.
- Dynamo-brushes, Production of carbon-covered metal sheets for. J. F. F. Ringsdorf. No. 923,581; June 1; Sp. p. 1054; Gaz. vol. 143; p. 161.
- Dynamo-electric machines, Regulation of. W. F. Dawson. No. 910,649; Jan. 26; Sp. p. 4558; Gaz. vol. 138; p. 829.
- Dynamo-inductor. G. A. Colman. No. 937,675; Oct. 19; Sp. p. 4312; Gaz. vol. 147; p. 735.
- Dynamo-machine construction. B. A. Behrend. No. 933,226; Sept. 7; Sp. p. 445; Gaz. vol. 146; p. 68.
- Dynamo-regulator. S. D. Field. No. 929,758; Aug. 3; Sp. p. 266; Gaz. vol. 145; p. 46.
- Dynamo-ventilator. D. R. McCullough. No. 919,203; Apr. 20; Sp. p. 4624; Gaz. vol. 141; p. 807.
- Dynamos and motors, Means for holding in place laminations of alternating-current. C. E. Willey. No. 938,033; Oct. 26; Sp. p. 5073; Gaz. vol. 147; p. 873.
- Dynamometer. E. E. Sweet. No. 929,803; Aug. 3; Sp. p. 373; Gaz. vol. 145; p. 62.
- Dynamometer. F. N. Connet. No. 931,274; Aug. 17; Sp. p. 3497; Gaz. vol. 145; p. 606.
- Dynamometer. A. E. S. Craig. No. 943,391; Dec. 14; Sp. p. 2916; Gaz. vol. 149; p. 491.
- Dynamometer, Transmission-. T. R. Moore. No. 930,605; Aug. 10; Sp. p. 2022; Gaz. vol. 145; p. 354.
- Ear-muff and neck-protector, Combined. J. Mello. No. 932,487; Aug. 31; Sp. p. 6050; Gaz. vol. 145; p. 1049.
- Ear-protector. O. C. Kirkpatrick. No. 931,768; Aug. 24; Sp. p. 4548; Gaz. vol. 145; p. 789.
- Ear-ring. M. L. J. Giradany. No. 943,185; Dec. 14; Sp. p. 2481; Gaz. vol. 149; p. 421.
- Ear-ring. M. L. J. Giradany. No. 943,186; Dec. 14; Sp. p. 2482; Gaz. vol. 149; p. 421.
- Ear-ring fastener. N. Lieberfreund. No. 919,041; Apr. 20; Sp. p. 4327; Gaz. vol. 141; p. 755.
- Earth-boring machine. C. L. Beltz. No. 910,451; Jan. 19; Sp. p. 4130; Gaz. vol. 138; p. 740.
- Earth-closet. J. R. Koons. No. 912,856; Feb. 16; Sp. p. 3806; Gaz. vol. 139; p. 670.
- Earth-excavator. H. W. King. No. 911,131; Feb. 2; Sp. p. 205; Gaz. vol. 139; p. 39.
- Earth-rake. M. A. Popkess. No. 929,486; July 27; Sp. p. 5758; Gaz. vol. 144; p. 1011.
- Earth-scraping apparatus. H. G. Ward. No. 932,075; Aug. 24; Sp. p. 5221; Gaz. vol. 145; p. 890.
- Earthenware article. E. C. Stover. No. 943,484; Dec. 14; Sp. p. 3112; Gaz. vol. 149; p. 524.

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 Easel. D. A. Benjamin. No. 930,338; Aug. 10; Sp. p. 1446; Gaz. vol. 145; p. 264.  
 Easel. E. Oldenbusch. No. 940,472; Nov. 16; Sp. p. 4504; Gaz. vol. 148; p. 753.  
 Easel for desk-calendars, cards, and other articles. W. H. Hall. No. 929,939; Aug. 3; Sp. p. 676; Gaz. vol. 145; p. 107.  
 Eating utensil, Hygienic. C. M. Daly, G. A. Weidhaas, and W. S. Henry. No. 910,914; Jan. 26; Sp. p. 5067; Gaz. vol. 138; p. 913.  
 Eaves gutter or trough. R. P. Mills and C. A. Taylor. No. 929,684; Aug. 3; Sp. p. 86; Gaz. vol. 145; p. 16.  
 Eaves-protector. E. P. Ruckle. No. 936,040; Oct. 5; Sp. p. 927; Gaz. vol. 147; p. 140.  
 Eaves-trough. A. Allen. No. 914,218; Mar. 2; Sp. p. 1198; Gaz. vol. 140; p. 188.  
 Eaves-trough. L. H. Dickelman. No. 932,254; Aug. 24; Sp. p. 5575; Gaz. vol. 145; p. 950.  
 Eaves-trough. G. Hensler. No. 939,838; Nov. 9; Sp. p. 3055; Gaz. vol. 148; p. 504.  
 Eaves-trough strainers or protectors, Fastener for. W. Feyler. No. 933,969; Sept. 14; Sp. p. 2052; Gaz. vol. 146; p. 337.  
 Eaves-troughs, Machine for making. W. J. Plecker. No. 925,502; June 22; Sp. p. 5035; Gaz. vol. 143; p. 888.  
 Ebonite and vulcanite, Manufacture of. O. C. Immisch. No. 937,745; Oct. 19; Sp. p. 4471; Gaz. vol. 147; p. 758.  
 Eccentric. R. M. Clark. No. 920,543; May 4; Sp. p. 915; Gaz. vol. 142; p. 147.  
 Eccentric, Adjustable. L. Bauroth. No. 924,307; June 8; Sp. p. 2653; Gaz. vol. 143; p. 431.  
 Eccentric, Shifting. P. Giebler. No. 912,836; Feb. 16; Sp. p. 3782; Gaz. vol. 139; p. 665.  
 Eccentrics, Shifting. U. Tremblay. No. 935,708; Oct. 6; Sp. p. 185; Gaz. vol. 147; p. 29.  
 Eraser or castrating instrument. J. Sklar. No. 922,350; May 18; Sp. p. 4610; Gaz. vol. 142; p. 801.  
 Edge-protecting clamp. G. Stiehle. No. 931,233; Aug. 17; Sp. p. 3409; Gaz. vol. 145; p. 591.  
 Edge-setting machine. W. Gordon. No. 937,434; Oct. 19; Sp. p. 3844; Gaz. vol. 147; p. 655.  
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 Educational device. H. T. McNulty. No. 925,716; June 22; Sp. p. 5491; Gaz. vol. 143; p. 958.  
 Educational device. J. Davis. No. 927,499; July 13; Sp. p. 1630; Gaz. vol. 144; p. 293.  
 Educational device. A. C. Immer. No. 935,258; Sept. 28; Sp. p. 4589; Gaz. vol. 146; p. 816.  
 Educational device. A. S. Kilroy. No. 939,515; Nov. 9; Sp. p. 2364; Gaz. vol. 148; p. 392.  
 Educational device. R. M. Vick. No. 940,093; Nov. 16; Sp. p. 3651; Gaz. vol. 148; p. 623.  
 Eel-trap. G. G. Passaro. No. 943,842; Dec. 21; Sp. p. 3888; Gaz. vol. 149; p. 677.  
 Egg-beater. S. A. Nicholas. No. 919,625; Apr. 27; Sp. p. 5725; Gaz. vol. 141; p. 985.  
 Egg-beater. F. H. Speer. No. 926,362; June 29; Sp. p. 6860; Gaz. vol. 143; p. 1206.  
 Egg-beater. R. W. Edwards. No. 930,364; Aug. 10; Sp. p. 1503; Gaz. vol. 145; p. 273.  
 Egg-beater. B. Kreuzberger. No. 932,294; Aug. 24; Sp. p. 5651; Gaz. vol. 145; p. 963.  
 Egg-beater. F. P. Burr. No. 935,088; Sept. 28; Sp. p. 4259; Gaz. vol. 146; p. 761.  
 Egg-beater. E. L. Chase and B. F. Milton. No. 936,410; Oct. 12; Sp. p. 1698; Gaz. vol. 147; p. 286.  
 Egg-beater. M. D. Christin. No. 938,369; Oct. 26; Sp. p. 5523; Gaz. vol. 147; p. 988.  
 Egg-beater. F. J. Larock. No. 944,621; Dec. 28; Sp. p. 5592; Gaz. vol. 149; p. 970.  
 Egg-boiler. C. H. Blanchard. No. 915,711; Mar. 16; Sp. p. 4245; Gaz. vol. 140; p. 732.  
 Egg-box, Folding. C. T. Bloomer. No. 939,661; Nov. 9; Sp. p. 2693; Gaz. vol. 148; p. 444.  
 Egg cabinet and testing attachment. F. J. Balgie. No. 938,629; Nov. 2; Sp. p. 414; Gaz. vol. 148; p. 62.  
 Egg-carrier. J. Lunke. No. 930,773; Aug. 10; Sp. p. 2365; Gaz. vol. 145; p. 409.  
 Egg-carton. W. B. Le Bourgeois. No. 911,051; Feb. 2; Sp. p. 58; Gaz. vol. 139; p. 12.  
 Egg carton or carrier. W. A. Schurmann. No. 918,601; Apr. 20; Sp. p. 3345; Gaz. vol. 141; p. 608.  
 Egg-case. M. E. Van Luven. No. 912,922; Feb. 16; Sp. p. 3920; Gaz. vol. 139; p. 691.  
 Egg-case. T. E. Perkins. No. 930,882; Aug. 10; Sp. p. 2608; Gaz. vol. 145; p. 446.  
 Egg-case fastener. J. H. Schneider. No. 908,612; Jan. 5; Sp. p. 385; Gaz. vol. 138; p. 62.  
 Egg-case fastening. J. G. Dutschke. No. 938,131; Oct. 26; Sp. p. 5299; Gaz. vol. 147; p. 906.  
 Egg-case filler. H. B. Collins. No. 926,049; June 22; Sp. p. 6187; Gaz. vol. 143; p. 1068.  
 Egg-case, Foldable metal. A. R. Burleson. No. 940,234; Nov. 16; Sp. p. 3953; Gaz. vol. 148; p. 673.  
 Egg-case, Folding. R. M. Skiles and P. H. Baldwin. No. 929,634; July 27; Sp. p. 6056; Gaz. vol. 144; p. 1060.  
 Egg-crate. S. A. Hamilton. No. 908,663; Jan. 5; Sp. p. 504; Gaz. vol. 138; p. 79.  
 Egg-desiccating apparatus. A. Fullerton. No. 916,138; Mar. 23; Sp. p. 5060; Gaz. vol. 140; p. 897.  
 Egg-desiccating apparatus. A. Fullerton. No. 916,139; Mar. 23; Sp. p. 5063; Gaz. vol. 140; p. 897.  
 Egg-desiccating apparatus. J. M. Hussey. No. 945,002; Dec. 28; Sp. p. 6382; Gaz. vol. 149; p. 1096.  
 Egg-opener. T. Cowburn. No. 940,790; Nov. 23; Sp. p. 5218; Gaz. vol. 148; p. 886.  
 Egg-opener. C. H. Sheldon. No. 944,827; Dec. 28; Sp. p. 6037; Gaz. vol. 149; p. 1038.  
 Egg-packing machine. H. H. Story. No. 915,501; Mar. 16; Sp. p. 3791; Gaz. vol. 140; p. 659.  
 Egg-poacher. A. T. Woodside. No. 919,277; Apr. 20; Sp. p. 4963; Gaz. vol. 141; p. 832.  
 Egg-poaching device. A. W. Meyer. No. 920,973; May 11; Sp. p. 1794; Gaz. vol. 142; p. 318.  
 Egg-separator. P. A. Bayless and C. F. Redman. No. 940,119; Nov. 16; Sp. p. 3712; Gaz. vol. 148; p. 632.  
 Egg-separator. H. H. Heatherington and C. O. Long. No. 941,415; Nov. 30; Sp. p. 6572; Gaz. vol. 148; p. 1114.  
 Egg-tester. W. C. Hunter. No. 917,767; Apr. 13; Sp. p. 1620; Gaz. vol. 141; p. 301.  
 Egg-tester. D. W. Hopkins. No. 920,464; May 4; Sp. p. 751; Gaz. vol. 142; p. 121.  
 Egg-tester. H. Langham. No. 933,185; Sept. 7; Sp. p. 323; Gaz. vol. 146; p. 52.  
 Egg-tester. E. Leiss. No. 933,472; Sept. 7; Sp. p. 1000; Gaz. vol. 146; p. 151.  
 Egg-tester. J. W. Billings. No. 939,205; Nov. 9; Sp. p. 1627; Gaz. vol. 148; p. 287.  
 Egg-tester. W. Rigling. No. 940,361; Nov. 16; Sp. p. 4248; Gaz. vol. 148; p. 716.  
 Egg-tester. E. Leiss. No. 942,652; Dec. 7; Sp. p. 1294; Gaz. vol. 149; p. 211.  
 Egg-tongs. W. H. Richmond. No. 909,939; Jan. 19; Sp. p. 3042; Gaz. vol. 138; p. 563.  
 Egg-washer. T. Thompson. No. 929,804; Aug. 3; Sp. p. 375; Gaz. vol. 145; p. 62.  
 Egg-whip. F. L. Gienandt. No. 944,781; Dec. 28; Sp. p. 5930; Gaz. vol. 149; p. 1023.  
 Egg-whisker and cake-mixer. M. W. Hall. No. 917,289; Apr. 6; Sp. p. 684; Gaz. vol. 141; p. 116.  
 Eggs, cream, custards, &c., Beater for. H. C. and O. Preston. No. 933,580; Sept. 7; Sp. p. 1264; Gaz. vol. 146; p. 186.  
 Eggs, Mold for making nest-. J. M. Southerland. No. 940,208; Nov. 16; Sp. p. 3909; Gaz. vol. 148; p. 664.  
 Eggs, Preserving. J. D. Smithers. No. 912,909; Feb. 16; Sp. p. 3899; Gaz. vol. 139; p. 687.  
 Eggs, Preserving. W. H. Burns. No. 938,965; Nov. 2; Sp. p. 1118; Gaz. vol. 148; p. 179.  
 Ejector. F. S. Miller. No. 921,138; May 11; Sp. p. 2129; Gaz. vol. 142; p. 374.  
 Elastic. B. Lauckner. No. 919,192; Apr. 20; Sp. p. 4604; Gaz. vol. 141; p. 803.  
 Elastic composition. E. K. M. Holst. No. 928,053; July 13; Sp. p. 2813; Gaz. vol. 144; p. 479.  
 Elastic connecting-strap. J. J. Shea. No. 941,659; Nov. 30; Sp. p. 7064; Gaz. vol. 148; p. 1194.  
 Elastic-fluid engine. C. V. Kerr. No. 940,162; Nov. 16; Sp. p. 3794; Gaz. vol. 148; p. 646.  
 Elastic materials, Testing the tensile strength of. L. Schopper. No. 922,624; May 25; Sp. p. 4990; Gaz. vol. 142; p. 888.  
 Elastic webbing. S. Kops. (Reissue.) No. 12,962; May 25; Sp. p. 6286; Gaz. vol. 142; p. 1087.  
 Elastic webbing. S. Kops. (Reissue.) No. 12,972; June 8; Sp. p. 3300; Gaz. vol. 143; p. 540.  
 Elastic wheel. M. Schnabel. No. 938,901; Nov. 2; Sp. p. 996; Gaz. vol. 148; p. 156.  
 Elbow-pattern, Adjustable. D. W. McDonald. No. 923,875; June 8; Sp. p. 1741; Gaz. vol. 143; p. 290.  
 Electric accumulator-plate. C. F. Guyon and R. W. Vicarey. No. 914,657; Mar. 9; Sp. p. 2091; Gaz. vol. 140; p. 355.  
 Electric accumulators, Agglutinating active material for. Q. Marino and E. W. Barton-Wright. No. 911,141; Feb. 2; Sp. p. 235; Gaz. vol. 139; p. 42.  
 Electric accumulators, Regenerating. C. Luckow. No. 915,980; Mar. 23; Sp. p. 4778; Gaz. vol. 140; p. 845.  
 Electric aerial ambulating system. E. F. George. No. 915,171; Mar. 16; Sp. p. 3140; Gaz. vol. 140; p. 552.  
 Electric alarm. T. Norpoth. No. 914,172; Mar. 2; Sp. p. 1116; Gaz. vol. 140; p. 174.  
 Electric alarm. T. Norpoth. No. 914,173; Mar. 2; Sp. p. 1119; Gaz. vol. 140; p. 175.  
 Electric alarm. R. C. Bronson. No. 937,919; Oct. 26; Sp. p. 4836; Gaz. vol. 147; p. 836.  
 Electric alarm-bell. N. Kessler. No. 909,192; Jan. 12; Sp. p. 1574; Gaz. vol. 138; p. 283.  
 Electric alarm, Thermo-. J. E. Paul and J. M. Stewart. No. 909,818; Jan. 12; Sp. p. 2784; Gaz. vol. 138; p. 490.  
 Electric and pneumatic governor. W. K. Rankin. No. 915,112; Mar. 16; Sp. p. 3017; Gaz. vol. 140; p. 532.  
 Electric apparatus. B. G. Lamme. No. 911,018; Jan. 26; Sp. p. 5265; Gaz. vol. 138; p. 947.  
 Electric apparatus, Vapor. E. Weintraub. No. 925,060; June 15; Sp. p. 4204; Gaz. vol. 143; p. 716.  
 Electric apparatus, Vapor. C. Bradway. No. 925,620; June 22; Sp. p. 5278; Gaz. vol. 143; p. 928.  
 Electric apparatus, Vapor. H. I. Wood. No. 942,157; Dec. 7; Sp. p. 284; Gaz. vol. 149; p. 43.  
 Electric apparatus, Vapor. L. E. Dempster. No. 942,378; Dec. 7; Sp. p. 722; Gaz. vol. 149; p. 118.



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- Electric apparatus, Vapor. H. I. Wood. No. 942,871; Dec. 7; Sp. p. 1752; Gaz. vol. 149; p. 283.
- Electric apparatus, Ventilating-plate and spacing-block for. J. A. Baird. No. 933,737; Sept. 14; Sp. p. 1603; Gaz. vol. 146; p. 263.
- Electric appliances, Attachment for. H. W. Denhard. No. 941,979; Nov. 30; Sp. p. 7742; Gaz. vol. 148; p. 1304.
- Electric-arc light. S. E. Donnelly. No. 928,857; July 20; Sp. p. 4449; Gaz. vol. 144; p. 776.
- Electric-arc light. F. P. Cobham. No. 936,305; Oct. 12; Sp. p. 1450; Gaz. vol. 147; p. 251.
- Electric arcs, Production of long stable. O. Schönherr and J. Hessberger. No. 930,238; Aug. 3; Sp. p. 1261; Gaz. vol. 145; p. 208.
- Electric attachment-plug. S. W. Ito. No. 938,238; Oct. 26; Sp. p. 5526; Gaz. vol. 147; p. 944.
- Electric battery. L. P. Basset. No. 913,936; Mar. 2; Sp. p. 582; Gaz. vol. 140; p. 93.
- Electric battery. M. Nicolas. No. 937,324; Oct. 19; Sp. p. 3582; Gaz. vol. 147; p. 619.
- Electric battery. F. A. Decker. No. 944,079; Dec. 21; Sp. p. 4399; Gaz. vol. 149; p. 758.
- Electric-battery holder and battery. G. L. Patterson. No. 911,522; Feb. 2; Sp. p. 951; Gaz. vol. 139; p. 166.
- Electric battery, Primary. G. A. Lutz. No. 919,900; Apr. 27; Sp. p. 6302; Gaz. vol. 141; p. 1076.
- Electric bell. E. P. Steen. No. 908,899; Jan. 5; Sp. p. 966; Gaz. vol. 138; p. 154.
- Electric block-signal. J. G. O. and I. D. Combs. No. 908,748; Jan. 5; Sp. p. 679; Gaz. vol. 138; p. 105.
- Electric brake. F. B. Rae. No. 926,605; June 29; Sp. p. 7297; Gaz. vol. 143; p. 1288.
- Electric-brazing apparatus. W. M. Fulton. No. 916,140; Mar. 23; Sp. p. 5064; Gaz. vol. 140; p. 897.
- Electric broiler. G. E. Stevens. No. 913,579; Feb. 23; Sp. p. 5292; Gaz. vol. 139; p. 937.
- Electric-cable terminal. C. W. Davis. No. 919,830; Apr. 27; Sp. p. 6173; Gaz. vol. 141; p. 1053.
- Electric-cable terminal. C. W. Davis. No. 941,859; Nov. 30; Sp. p. 7513; Gaz. vol. 148; p. 1263.
- Electric cables, Fault-locator for. W. O. Pennell and H. L. Hoffmann. No. 925,594; June 22; Sp. p. 5225; Gaz. vol. 143; p. 920.
- Electric call and alarm system. O. O. Baker. No. 933,412; Sept. 7; Sp. p. 847; Gaz. vol. 146; p. 132.
- Electric carrier system. S. H. Libby. No. 910,931; Jan. 26; Sp. p. 5096; Gaz. vol. 138; p. 918.
- Electric cell or battery, Primary. A. Hell. No. 941,416; Nov. 30; Sp. p. 6572; Gaz. vol. 148; p. 1114.
- Electric cigar-lighter. J. W. Todd, Jr. No. 914,995; Mar. 9; Sp. p. 2758; Gaz. vol. 140; p. 465.
- Electric-circuit closer, Coin-controlled. J. B. Obermeier. No. 934,565; Sept. 21; Sp. p. 3202; Gaz. vol. 146; p. 558.
- Electric-circuit-control system. F. W. Clarey. No. 926,243; June 29; Sp. p. 6628; Gaz. vol. 143; p. 1169.
- Electric-circuit controller. H. W. Leonard. No. 914,355; Mar. 2; Sp. p. 1487; Gaz. vol. 140; p. 231.
- Electric-circuit controller. H. W. Leonard. No. 914,356; Mar. 2; Sp. p. 1496; Gaz. vol. 140; p. 231.
- Electric-circuit controller. H. W. Leonard. No. 914,357; Mar. 2; Sp. p. 1501; Gaz. vol. 140; p. 232.
- Electric-circuit controller. H. W. Leonard. No. 929,609; July 27; Sp. p. 6004; Gaz. vol. 144; p. 1051.
- Electric-circuit controller. H. W. Leonard. No. 941,425; Nov. 30; Sp. p. 6587; Gaz. vol. 148; p. 1117.
- Electric-circuit controller and interrupter. C. A. Tucker. No. 936,584; Oct. 12; Sp. p. 2077; Gaz. vol. 147; p. 344.
- Electric-circuit-controlling relay. B. Menkin. No. 942,508; Dec. 7; Sp. p. 1009; Gaz. vol. 149; p. 163.
- Electric-circuit interrupter. H. R. Stuart. No. 934,474; Sept. 21; Sp. p. 3033; Gaz. vol. 146; p. 529.
- Electric-circuit interrupter. H. R. Stuart. No. 936,578; Oct. 12; Sp. p. 2065; Gaz. vol. 147; p. 342.
- Electric circuit, Phantom. H. B. Stone. No. 911,774; Feb. 9; Sp. p. 1473; Gaz. vol. 139; p. 275.
- Electric-circuit protective device. J. B. Taylor and D. S. Carpenter. No. 925,054; June 15; Sp. p. 4194; Gaz. vol. 143; p. 714.
- Electric-circuit switch. E. B. Wedmore. No. 917,209; Apr. 6; Sp. p. 507; Gaz. vol. 141; p. 88.
- Electric circuits, Current-interrupter for. F. W. Lord and F. W. Erickson. No. 932,481; Aug. 31; Sp. p. 6033; Gaz. vol. 145; p. 1047.
- Electric circuits, Instrument for locating grounds and breaks in. M. J. Myers. No. 944,459; Dec. 28; Sp. p. 5211; Gaz. vol. 149; p. 913.
- Electric circuits, Means for controlling. G. W. Hart. No. 941,777; Nov. 30; Sp. p. 7328; Gaz. vol. 148; p. 1235.
- Electric circuits, Protective device for. A. C. Eastwood. No. 922,464; May 25; Sp. p. 4877; Gaz. vol. 142; p. 869.
- Electric circuits, Protective device for. S. R. Bergman. No. 940,578; Nov. 16; Sp. p. 4739; Gaz. vol. 148; p. 789.
- Electric closet appliance. M. D. Murray. No. 916,355; Mar. 23; Sp. p. 5459; Gaz. vol. 140; p. 969.
- Electric conductor. S. G. Brown. No. 912,801; Feb. 16; Sp. p. 3721; Gaz. vol. 139; p. 654.
- Electric-conductor coupling. A. H. Conway. No. 917,548; Apr. 6; Sp. p. 1152; Gaz. vol. 141; p. 201.
- Electric-conductor coupling. J. L. Hinds. No. 939,501; Nov. 9; Sp. p. 2333; Gaz. vol. 148; p. 387.
- Electric-conductor coupling. J. L. Hinds. No. 939,689; Nov. 9; Sp. p. 2746; Gaz. vol. 148; p. 453.
- Electric-conductor envelop, Vapor-. E. Weintraub. No. 917,212; Apr. 6; Sp. p. 514; Gaz. vol. 141; p. 90.
- Electric-conductor supports, Guard for the arms of. G. E. Harrison and G. Burns. No. 914,042; Mar. 2; Sp. p. 842; Gaz. vol. 140; p. 130.
- Electric-conductor-terminal guard-box. M. E. Ames and J. H. Goehst. No. 910,261; Jan. 19; Sp. p. 3732; Gaz. vol. 138; p. 674.
- Electric conductor, Vapor. O. O. Kruh. No. 916,879; Mar. 30; Sp. p. 6493; Gaz. vol. 140; p. 1160.
- Electric conductors, Connection-terminal for. H. G. Addie. No. 926,451; June 29; Sp. p. 7018; Gaz. vol. 143; p. 1237.
- Electric conductors, Extension plug or device for connecting. W. E. O'Neill. No. 930,788; Aug. 10; Sp. p. 2392; Gaz. vol. 145; p. 414.
- Electric conductors, Perforated block for. F. R. McBERTY. No. 920,614; May 4; Sp. p. 1051; Gaz. vol. 142; p. 171.
- Electric conductors, Safety device for overhead. E. Giraud. No. 940,525; Nov. 16; Sp. p. 4623; Gaz. vol. 148; p. 771.
- Electric conductors, System of insulation for high-voltage. F. M. Locke. No. 918,339; Apr. 13; Sp. p. 2796; Gaz. vol. 141; p. 494.
- Electric conduits, &c., Hooded connector for. A. McMurtrie. No. 916,932; Mar. 30; Sp. p. 6614; Gaz. vol. 140; p. 1179.
- Electric connector. J. J. Walsh. No. 918,617; Apr. 20; Sp. p. 3389; Gaz. vol. 141; p. 613.
- Electric connector, Separable. F. C. De Reamer. No. 921,678; May 18; Sp. p. 3282; Gaz. vol. 142; p. 584.
- Electric contact, Overhead. T. W. Small. No. 937,107; Oct. 19; Sp. p. 3119; Gaz. vol. 147; p. 548.
- Electric contacts, Device for cleaning or truing. J. A. J. Haslop. No. 927,042; July 6; Sp. p. 724; Gaz. vol. 144; p. 114.
- Electric controller. F. E. Case. No. 915,016; Mar. 9; Sp. p. 2790; Gaz. vol. 140; p. 472.
- Electric controller. W. P. Cosper. No. 915,719; Mar. 16; Sp. p. 4267; Gaz. vol. 140; p. 735.
- Electric controller. T. V. Buckwalter. No. 933,157; Sept. 7; Sp. p. 245; Gaz. vol. 146; p. 42.
- Electric controller. C. L. Taylor. No. 942,981; Dec. 14; Sp. p. 2037; Gaz. vol. 149; p. 353.
- Electric controller. W. Walz. No. 944,525; Dec. 28; Sp. p. 5377; Gaz. vol. 149; p. 936.
- Electric-controller lever-check. J. Thomas. No. 919,089; Apr. 20; Sp. p. 4402; Gaz. vol. 141; p. 769.
- Electric controller or switch contact. A. White. No. 913,081; Feb. 23; Sp. p. 4244; Gaz. vol. 139; p. 769.
- Electric controlling apparatus. W. Schwagermann. No. 943,166; Dec. 14; Sp. p. 2445; Gaz. vol. 149; p. 415.
- Electric controlling means. C. S. Reno. No. 919,463; Apr. 27; Sp. p. 5381; Gaz. vol. 141; p. 929.
- Electric controlling system. D. C. Jackson. No. 911,878; Feb. 9; Sp. p. 1661; Gaz. vol. 139; p. 308.
- Electric-cord retriever. W. O. Rew. No. 913,432; Feb. 23; Sp. p. 4957; Gaz. vol. 139; p. 887.
- Electric coupling. T. Majgren. No. 930,873; Aug. 10; Sp. p. 2568; Gaz. vol. 145; p. 443.
- Electric current and voltage regulator. S. B. Storer. No. 914,592; Mar. 9; Sp. p. 2599; Gaz. vol. 140; p. 434.
- Electric-current generator. C. C. Ruprecht. No. 914,311; Mar. 2; Sp. p. 1388; Gaz. vol. 140; p. 216.
- Electric-current rectifier. E. Garretson. No. 929,582; July 27; Sp. p. 5927; Gaz. vol. 144; p. 1042.
- Electric-current regulator. T. Spencer. No. 922,057; May 18; Sp. p. 4045; Gaz. vol. 142; p. 707.
- Electric-current regulator. H. A. Keip. No. 925,776; June 22; Sp. p. 5641; Gaz. vol. 143; p. 978.
- Electric currents, Induction supply-meter for polyphase. H. Aron. No. 944,167; Dec. 21; Sp. p. 4587; Gaz. vol. 149; p. 787.
- Electric currents, Means for controlling the supply of. G. Henry. No. 923,839; June 8; Sp. p. 1674; Gaz. vol. 143; p. 277.
- Electric cut-out. T. E. Murray. No. 913,755; Mar. 2; Sp. p. 166; Gaz. vol. 140; p. 28.
- Electric cut-out. T. E. Murray. No. 918,188; Apr. 13; Sp. p. 2481; Gaz. vol. 141; p. 444.
- Electric cut-out. T. E. Murray. No. 918,891; Apr. 20; Sp. p. 4028; Gaz. vol. 141; p. 706.
- Electric cut-out. W. B. Potter. No. 921,732; May 18; Sp. p. 3374; Gaz. vol. 142; p. 600.
- Electric cut-out. T. E. Murray. No. 922,801; May 25; Sp. p. 5563; Gaz. vol. 142; p. 978.
- Electric cut-out. T. E. Murray. No. 923,439; June 1; Sp. p. 737; Gaz. vol. 143; p. 109.
- Electric cut-out. T. E. Murray. No. 924,092; June 8; Sp. p. 2140; Gaz. vol. 143; p. 357.
- Electric cut-out. T. E. Murray. No. 928,999; July 27; Sp. p. 4749; Gaz. vol. 144; p. 851.
- Electric cut-out. T. E. Murray. No. 941,165; Nov. 23; Sp. p. 6005; Gaz. vol. 148; p. 1009.
- Electric demand instrument. W. J. Lloyd. No. 919,605; Apr. 27; Sp. p. 5690; Gaz. vol. 141; p. 978.
- Electric device, Vapor. F. A. Huguenin. No. 919,584; Apr. 27; Sp. p. 5645; Gaz. vol. 141; p. 970.
- Electric devices, Multiple operation of vapor. R. E. Russell. No. 921,893; May 18; Sp. p. 3706; Gaz. vol. 142; p. 654.
- Electric discharges, Apparatus for producing. H. Pauling. No. 939,441; Nov. 9; Sp. p. 2215; Gaz. vol. 148; p. 368.
- Electric distribution. J. L. Creveling. No. 934,997; Sept. 28; Sp. p. 4076; Gaz. vol. 146; p. 731.
- Electric-distribution system. E. F. W. Alexanderson. No. 921,786; May 18; Sp. p. 3486; Gaz. vol. 142; p. 620.
- Electric drill. W. O. Duntley and H. J. Kimman. No. 936,870; Oct. 12; Sp. p. 2643; Gaz. vol. 147; p. 440.
- Electric drill. P. J. Lincoln. No. 942,396; Dec. 7; Sp. p. 754; Gaz. vol. 149; p. 123.
- Electric drive for machines. E. R. Whitney. No. 919,986; Apr. 27; Sp. p. 6459; Gaz. vol. 141; p. 1104.
- Electric elevator. W. M. Cumiskey. No. 909,872; Jan. 19; Sp. p. 2902; Gaz. vol. 138; p. 540.
- Electric elevator. H. F. Gurney and W. M. Cumiskey. No. 909,889; Jan. 19; Sp. p. 2933; Gaz. vol. 138; p. 546.
- Electric ine. W. Farrell. No. 931,748; Dec. 7; Sp. p. 4487; Gaz. vol. 145; p. 782.



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- Electric fan, Oscillating. H. S. Brown. No. 908,735; Jan. 5; Sp. p. 648; Gaz. vol. 138; p. 101.  
 Electric fan, Oscillating. H. S. Brown. No. 908,736; Jan. 5; Sp. p. 652; Gaz. vol. 138; p. 101.  
 Electric fire-alarm, Automatic. E. Johnson. No. 916,711; Mar. 30; Sp. p. 6191; Gaz. vol. 140; p. 1109.  
 Electric fire and heat alarm, Automatic. J. W. Butterworth. No. 918,278; Apr. 13; Sp. p. 2683; Gaz. vol. 141; p. 475.  
 Electric fixture. W. J. Boemper. No. 918,119; Apr. 13; Sp. p. 2358; Gaz. vol. 141; p. 422.  
 Electric-light outlet-bracket. N. Hublinger. No. 911,989; Feb. 9; Sp. p. 1973; Gaz. vol. 139; p. 346.  
 Electric fixtures, Attaching device for. L. A. Parrish. No. 922,623; May 25; Sp. p. 5205; Gaz. vol. 142; p. 921.  
 Electric fixtures, Outlet-box for. O. F. Erickson and R. H. Bradshaw. No. 935,097; Sept. 28; Sp. p. 4281; Gaz. vol. 146; p. 765.  
 Electric fixtures, Wall-plate for. I. Bond. No. 914,107; Mar. 2; Sp. p. 972; Gaz. vol. 140; p. 153.  
 Electric flash-light attachment. F. Meadows. No. 918,181; Apr. 13; Sp. p. 2466; Gaz. vol. 141; p. 442.  
 Electric flasher. D. D. Swem. No. 933,137; Sept. 7; Sp. p. 205; Gaz. vol. 146; p. 35.  
 Electric fluid-heater. C. C. Chesney and H. B. Wilson. No. 925,155; June 15; Sp. p. 4386; Gaz. vol. 143; p. 748.  
 Electric furnace. J. H. Reid. No. 910,581; Jan. 26; Sp. p. 4414; Gaz. vol. 138; p. 808.  
 Electric furnace. J. H. Reid. No. 910,582; Jan. 26; Sp. p. 4416; Gaz. vol. 138; p. 808.  
 Electric furnace. P. L. T. Héroult. No. 913,888; Mar. 2; Sp. p. 460; Gaz. vol. 140; p. 75.  
 Electric furnace. S. F. Hall. No. 914,489; Mar. 9; Sp. p. 1756; Gaz. vol. 140; p. 301.  
 Electric furnace. C. W. F. Gorrell. No. 916,548; Mar. 30; Sp. p. 5897; Gaz. vol. 140; p. 1057.  
 Electric furnace. J. H. Reid. No. 917,796; Apr. 13; Sp. p. 1673; Gaz. vol. 141; p. 310.  
 Electric furnace. F. M. Chaplet and A. Rémond. No. 923,018; May 25; Sp. p. 6017; Gaz. vol. 142; p. 1048.  
 Electric furnace. L. D. Farnsworth and M. J. Bartell. No. 924,603; June 8; Sp. p. 3241; Gaz. vol. 143; p. 529.  
 Electric furnace. J. Bouneau. No. 926,236; June 29; Sp. p. 6620; Gaz. vol. 143; p. 1167.  
 Electric furnace. F. J. Tone. No. 932,069; Aug. 24; Sp. p. 5208; Gaz. vol. 145; p. 888.  
 Electric furnace. G. C. Landis. No. 932,296; Aug. 24; Sp. p. 5654; Gaz. vol. 145; p. 964.  
 Electric furnace. F. M. Becket. No. 932,368; Aug. 24; Sp. p. 5780; Gaz. vol. 145; p. 987.  
 Electric furnace. J. A. Hay. No. 932,469; Aug. 31; Sp. p. 6010; Gaz. vol. 145; p. 1043.  
 Electric furnace. J. B. Trillon. No. 932,835; Aug. 31; Sp. p. 6788; Gaz. vol. 145; p. 1164.  
 Electric furnace. T. F. Baily. No. 933,815; Sept. 14; Sp. p. 1738; Gaz. vol. 146; p. 288.  
 Electric furnace. A. Reynolds. No. 935,548; Sept. 28; Sp. p. 5193; Gaz. vol. 146; p. 911.  
 Electric furnace. W. A. Smith. No. 935,937; Oct. 5; Sp. p. 722; Gaz. vol. 147; p. 106.  
 Electric furnace. A. C. Higgins. (Reissue.) No. 13,027; Oct. 26; Sp. p. 6031; Gaz. vol. 147; p. 1018.  
 Electric furnace. H. Röchling and W. Rodenhäuser. No. 939,095; Nov. 2; Sp. p. 1371; Gaz. vol. 148; p. 223.  
 Electric furnace. C. A. Keller. No. 941,419; Nov. 30; Sp. p. 6578; Gaz. vol. 148; p. 1115.  
 Electric furnace. F. T. Snyder. No. 942,110; Dec. 7; Sp. p. 173; Gaz. vol. 149; p. 26.  
 Electric furnace. E. F. Price. No. 942,350; Dec. 7; Sp. p. 679; Gaz. vol. 149; p. 109.  
 Electric furnace. E. A. A. Grünwall, A. R. Lindblad, and O. Stålhane. No. 943,224; Dec. 14; Sp. p. 2557; Gaz. vol. 149; p. 434.  
 Electric furnace. C. E. Wilson. No. 943,290; Dec. 14; Sp. p. 2712; Gaz. vol. 149; p. 458.  
 Electric furnace for gas reactions. O. Dieffenbach and W. Moldenhauer. No. 941,768; Nov. 30; Sp. p. 7312; Gaz. vol. 148; p. 1232.  
 Electric furnace for metallurgical purposes. F. Girod. No. 921,228; May 11; Sp. p. 2319; Gaz. vol. 142; p. 407.  
 Electric furnace for the continuous extraction of zinc from its ores. E. F. Côté and F. R. Pierron. No. 944,774; Dec. 28; Sp. p. 5916; Gaz. vol. 149; p. 1020.  
 Electric furnace with raised charging-pit. A. Helfenstein. No. 942,068; Dec. 7; Sp. p. 58; Gaz. vol. 149; p. 11.  
 Electric fuse. L. W. Downes. No. 909,564; Jan. 12; Sp. p. 2286; Gaz. vol. 138; p. 405.  
 Electric generator. E. F. White. No. 930,819; Aug. 10; Sp. p. 2456; Gaz. vol. 145; p. 425.  
 Electric generator. E. T. Kenney. No. 940,392; Nov. 16; Sp. p. 4345; Gaz. vol. 148; p. 727.  
 Electric generator. G. A. Huber. No. 942,325; Dec. 7; Sp. p. 631; Gaz. vol. 149; p. 101.  
 Electric generator, Dynamo. J. O. Heinze, Jr. No. 912,565; Feb. 16; Sp. p. 3197; Gaz. vol. 139; p. 573.  
 Electric ground-clamp. F. Stevens. No. 917,706; Aug. 17; Sp. p. 4401; Gaz. vol. 145; p. 747.  
 Electric head-cap. G. M. Branaman. No. 915,824; Mar. 23; Sp. p. 4479; Gaz. vol. 140; p. 794.  
 Electric heater. G. v. K. Greene. No. 910,191; Jan. 19; Sp. p. 3553; Gaz. vol. 138; p. 647.  
 Electric heater. W. S. Andrews. No. 910,479; Jan. 19; Sp. p. 4196; Gaz. vol. 138; p. 750.  
 Electric heater. G. H. Hill. No. 910,682; Jan. 26; Sp. p. 4611; Gaz. vol. 138; p. 839.  
 Electric heater. G. W. Carpenter, J. Rasmussen, and F. B. McCroskey. No. 916,994; Apr. 6; Sp. p. 56; Gaz. vol. 141; p. 14.  
 Electric heater. R. L. Hailey. No. 917,053; Apr. 6; Sp. p. 188; Gaz. vol. 141; p. 35.  
 Electric heater. G. E. Stevens. No. 919,489; Apr. 27; Sp. p. 5465; Gaz. vol. 141; p. 939.  
 Electric heater. W. C. Fish. No. 919,843; Apr. 27; Sp. p. 6195; Gaz. vol. 141; p. 1057.  
 Electric heater. K. Schlüter. No. 927,173; July 6; Sp. p. 985; Gaz. vol. 144; p. 159.  
 Electric heater. F. Kuhn. No. 929,095; July 27; Sp. p. 4945; Gaz. vol. 144; p. 881.  
 Electric heater. C. E. Trehwella and E. D. Holley. No. 929,901; Aug. 3; Sp. p. 604; Gaz. vol. 145; p. 95.  
 Electric heater. J. E. Macomber. No. 931,013; Aug. 10; Sp. p. 2902; Gaz. vol. 145; p. 488.  
 Electric heater. C. E. Johnson. No. 933,989; Sept. 14; Sp. p. 2087; Gaz. vol. 146; p. 344.  
 Electric heater. W. A. Rankin and W. M. Harwood. No. 935,816; Oct. 5; Sp. p. 466; Gaz. vol. 147; p. 66.  
 Electric heater. H. W. Denhard. No. 938,127; Oct. 26; Sp. p. 5293; Gaz. vol. 147; p. 905.  
 Electric heater. G. E. Stevens. No. 942,874; Dec. 7; Sp. p. 1765; Gaz. vol. 149; p. 285.  
 Electric heater. R. Farren and C. T. Clark. No. 942,894; Dec. 14; Sp. p. 1833; Gaz. vol. 149; p. 323.  
 Electric heater. R. W. Brown. No. 943,384; Dec. 14; Sp. p. 2906; Gaz. vol. 149; p. 489.  
 Electric heater, Illuminous. F. Kuhn. No. 929,094; July 27; Sp. p. 4944; Gaz. vol. 144; p. 881.  
 Electric heater, Luminous. W. F. Howard and A. B. Cousins. No. 940,021; Nov. 16; Sp. p. 3457; Gaz. vol. 148; p. 597.  
 Electric heaters, Controlling means for. E. H. Richardson, F. Booth, and W. Meredith. No. 928,402; July 20; Sp. p. 3546; Gaz. vol. 144; p. 627.  
 Electric heating apparatus. G. Teuber. No. 917,504; Apr. 6; Sp. p. 1072; Gaz. vol. 141; p. 188.  
 Electric heating devices, Apparatus for. F. Bölling. No. 917,241; Apr. 6; Sp. p. 571; Gaz. vol. 141; p. 99.  
 Electric hoist. W. O. Duntley. No. 910,798; Jan. 26; Sp. p. 4850; Gaz. vol. 138; p. 876.  
 Electric-hoist control system. J. H. Hall and J. F. Schnabel. No. 915,290; Mar. 16; Sp. p. 3374; Gaz. vol. 140; p. 589.  
 Electric hoists, Control system for. J. H. Hall and J. F. Schnabel. (Reissue.) No. 13,019; Sept. 7; Sp. p. 1594; Gaz. vol. 146; p. 241.  
 Electric igniter for gas-engines. I. B. Reed. No. 916,595; Mar. 30; Sp. p. 5980; Gaz. vol. 140; p. 1073.  
 Electric igniter-switch, Automatic. C. L. Vannort. No. 914,537; Mar. 9; Sp. p. 1865; Gaz. vol. 140; p. 317.  
 Electric indicator and signal. D. G. Davies. No. 934,713; Sept. 21; Sp. p. 3500; Gaz. vol. 146; p. 609.  
 Electric induction-motor, Multiphase. H. A. Mavor. No. 912,144; Feb. 9; Sp. p. 2280; Gaz. vol. 139; p. 395.  
 Electric-installation outlet-box. W. H. Vibber. No. 932,196; Aug. 24; Sp. p. 5468; Gaz. vol. 145; p. 931.  
 Electric-installation tubes, Adjustable coupling for. W. H. Vibber. No. 913,588; Feb. 23; Sp. p. 5311; Gaz. vol. 139; p. 940.  
 Electric interlock system, Automatic. J. F. Clark. No. 924,735; June 15; Sp. p. 3525; Gaz. vol. 143; p. 606.  
 Electric iron. D. W. McClay. No. 928,532; July 20; Sp. p. 3810; Gaz. vol. 144; p. 668.  
 Electric irons, heating appliances, and the like, Contact-plug for. R. G. Pheysey. No. 911,439; Feb. 2; Sp. p. 796; Gaz. vol. 139; p. 139.  
 Electric isolation system. N. C. McClure. No. 927,375; July 6; Sp. p. 1342; Gaz. vol. 144; p. 223.  
 Electric kiln. J. L. Harper and W. J. Larkworthy. No. 925,902; June 22; Sp. p. 5908; Gaz. vol. 143; p. 1021.  
 Electric-light bracket. W. Roessler. No. 911,447; Feb. 2; Sp. p. 809; Gaz. vol. 139; p. 141.  
 Electric-light bracket. E. I. Drent. No. 936,869; Oct. 12; Sp. p. 2642; Gaz. vol. 147; p. 440.  
 Electric-light-button-turning device. A. R. Hurst. No. 924,783; June 15; Sp. p. 3631; Gaz. vol. 143; p. 623.  
 Electric-light cluster-fixture. J. H. Caldwell. No. 933,887; Sept. 14; Sp. p. 1883; Gaz. vol. 146; p. 311.  
 Electric-light-controlling device. A. L. Wood. No. 929,069; July 27; Sp. p. 4895; Gaz. vol. 144; p. 873.  
 Electric-light-cord adjuster. O. Dodge. No. 932,970; Aug. 31; Sp. p. 7029; Gaz. vol. 145; p. 1209.  
 Electric-light-cord or cable adjuster. F. E. and A. C. Walker. No. 914,768; Mar. 9; Sp. p. 2350; Gaz. vol. 140; p. 394.  
 Electric-light-cord-support. M. N. Narum and P. L. Jacobson. No. 915,997; Mar. 23; Sp. p. 4811; Gaz. vol. 140; p. 850.  
 Electric-light cords or cables, Adjuster for. T. A. Parker. No. 936,156; Oct. 5; Sp. p. 1170; Gaz. vol. 147; p. 178.  
 Electric-light fixture. T. Smith. No. 933,132; Sept. 7; Sp. p. 195; Gaz. vol. 146; p. 33.  
 Electric-light flasher, Automatic. J. O. Houser. No. 935,207; Sept. 28; Sp. p. 4491; Gaz. vol. 146; p. 799.  
 Electric-light hanger. J. W. Carter. No. 910,112; Jan. 19; Sp. p. 3375; Gaz. vol. 138; p. 620.  
 Electric-light hanger. H. G. Cleveland. No. 920,915; May 11; Sp. p. 1684; Gaz. vol. 142; p. 299.  
 Electric-light hanger, Adjustable. L. Buendert. No. 934,992; Sept. 28; Sp. p. 4056; Gaz. vol. 146; p. 728.  
 Electric-light holder, Magnetic. D. J. Hauss. No. 921,108; May 11; Sp. p. 2071; Gaz. vol. 142; p. 365.  
 Electric light, Incandescent. W. J. Carpenter and T. F. McDermott. No. 919,821; Apr. 27; Sp. p. 6155; Gaz. vol. 141; p. 1050.



*Alphabetical list of inventions—Continued.*

- Electric light, Incandescent. J. T. Bigger. No. 939,969; Nov. 16; Sp. p. 3344; Gaz. vol. 148; p. 578.  
 Electric-light key-socket. W. C. Clark. No. 921,800; May 18; Sp. p. 3514; Gaz. vol. 142; p. 624.  
 Electric light, Portable. G. R. Radley. No. 914,975; Mar. 9; Sp. p. 2731; Gaz. vol. 140; p. 460.  
 Electric-light shade. T. Smith. No. 910,877; Jan. 26; Sp. p. 4999; Gaz. vol. 138; p. 902.  
 Electric-light socket. M. Norden. No. 912,720; Feb. 16; Sp. p. 3543; Gaz. vol. 139; p. 627.  
 Electric-light socket. R. A. Schoenberg. No. 943,273; Dec. 14; Sp. p. 2668; Gaz. vol. 149; p. 452.  
 Electric-light support, Incandescent. F. D. Powell. No. 933,664; Sept. 7; Sp. p. 1427; Gaz. vol. 146; p. 214.  
 Electric lights, Slack take-up for pendant. J. Maitland. No. 925,004; June 15; Sp. p. 4103; Gaz. vol. 143; p. 698.  
 Electric lighting. C. P. Steinmetz. No. 942,472; Dec. 7; Sp. p. 932; Gaz. vol. 149; p. 150.  
 Electric-lighting attachment for burglar-alarm systems. M. F. Jurlick. No. 942,964; Dec. 14; Sp. p. 2002; Gaz. vol. 149; p. 347.  
 Electric lighting of railway-carriages, Apparatus for the. E. M. Preston and A. E. Kennard. No. 921,454; May 11; Sp. p. 2797; Gaz. vol. 142; p. 481.  
 Electric-lighting system. J. L. Creveling. No. 920,827; May 4; Sp. p. 1484; Gaz. vol. 142; p. 240.  
 Electric-lighting system. C. Feldmann. No. 922,410; May 18; Sp. p. 4747; Gaz. vol. 142; p. 823.  
 Electric lock. T. C. Nixon. No. 926,890; July 6; Sp. p. 385; Gaz. vol. 144; p. 62.  
 Electric log. J. H. Cuntz. No. 912,291; Feb. 16; Sp. p. 2613; Gaz. vol. 139; p. 490.  
 Electric-machine air-deflector, Dynamo-. F. W. Young. No. 919,279; Apr. 20; Sp. p. 4965; Gaz. vol. 141; p. 832.  
 Electric machine, Alternating-current dynamo-. D. C. Jackson. No. 924,991; June 15; Sp. p. 4073; Gaz. vol. 143; p. 693.  
 Electric machine, Alternating-current dynamo-. W. Stanley. No. 925,666; June 22; Sp. p. 5376; Gaz. vol. 143; p. 943.  
 Electric machine, Alternating-current dynamo-. B. Elshoff. No. 925,884; June 22; Sp. p. 5873; Gaz. vol. 143; p. 1015.  
 Electric machine, Alternating-current dynamo-. C. P. Steinmetz. No. 935,941; Oct. 5; Sp. p. 728; Gaz. vol. 147; p. 107.  
 Electric-machine brush, Dynamo-. E. T. Mug. No. 908,483; Jan. 5; Sp. p. 100; Gaz. vol. 138; p. 19.  
 Electric-machine brush, Dynamo-. E. R. Knight. No. 932,616; Aug. 31; Sp. p. 6341; Gaz. vol. 145; p. 1094.  
 Electric-machine brush, Dynamo-. H. S. Miller. No. 938,604; Nov. 2; Sp. p. 370; Gaz. vol. 148; p. 55.  
 Electric-machine brush-holder, Dynamo-. M. Walker. No. 909,834; Jan. 12; Sp. p. 2812; Gaz. vol. 138; p. 495.  
 Electric-machine brush-holder, Dynamo-. J. E. Webster. No. 930,006; Aug. 3; Sp. p. 815; Gaz. vol. 145; p. 131.  
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 Electric-machine brush-support, Dynamo-. W. M. Coffman. No. 917,005; Apr. 6; Sp. p. 80; Gaz. vol. 141; p. 18.  
 Electric machine, Commutator-type high-speed dynamo-. C. J. Yates. No. 922,230; May 18; Sp. p. 4404; Gaz. vol. 142; p. 764.  
 Electric-machine connection-board. J. G. Crawford. No. 931,573; Aug. 17; Sp. p. 4083; Gaz. vol. 145; p. 703.  
 Electric-machine contactor-commutator, Dynamo-. H. R. Rivers-Moore and J. M. Donald. No. 917,898; Apr. 13; Sp. p. 1893; Gaz. vol. 141; p. 344.  
 Electric-machine cooling means, Dynamo-. W. L. R. Emmet. No. 937,429; Oct. 19; Sp. p. 3834; Gaz. vol. 147; p. 653.  
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 Electric machine, Dynamo-. B. Elshoff. No. 911,708; Feb. 9; Sp. p. 1367; Gaz. vol. 139; p. 254.  
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 Electric machine, Dynamo-. J. J. Wood. No. 919,511; Apr. 27; Sp. p. 5501; Gaz. vol. 141; p. 945.  
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 Electric machine, Dynamo-. J. E. Noegerath. No. 920,626; May 4; Sp. p. 1076; Gaz. vol. 142; p. 175.  
 Electric machine, Dynamo-. W. L. R. Emmet. No. 920,845; May 4; Sp. p. 1520; Gaz. vol. 142; p. 246.  
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 Electric-machine elements, Lining for slots of dynamo-. F. W. Young and E. Heitmann. No. 941,181; Nov. 23; Sp. p. 6054; Gaz. vol. 148; p. 1015.  
 Electric-machine field-pole, Dynamo-. H. Poth. No. 919,458; Apr. 27; Sp. p. 5364; Gaz. vol. 141; p. 927.  
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- Electric machine for ignition purposes, Magneto-. C. A. Vandervell and F. I. Hoffman. No. 939,357; Nov. 9; Sp. p. 2015; Gaz. vol. 148; p. 340.
- Electric machine, High-speed dynamo-. A. H. Wouters. No. 925,976; June 22; Sp. p. 6043; Gaz. vol. 143; p. 1044.
- Electric machine, Magneto-. E. Troike. No. 926,368; June 29; Sp. p. 6866; Gaz. vol. 143; p. 1208.
- Electric machine, Magneto-. T. M. Mueller. No. 943,697; Dec. 21; Sp. p. 3598; Gaz. vol. 149; p. 626.
- Electric machine of the inclosed type, Dynamo-. C. E. Lord. No. 908,686; Jan. 5; Sp. p. 543; Gaz. vol. 138; p. 84.
- Electric-machine rotary members, Cooling device for. J. Hissink. No. 914,046; Mar. 2; Sp. p. 848; Gaz. vol. 140; p. 131.
- Electric machine with distributed balancing-winding, Dynamo-. E. C. Wright. No. 932,084; Aug. 24; Sp. p. 5235; Gaz. vol. 145; p. 893.
- Electric machines, Air-drier for static. M. R. Farrar. No. 925,887; June 22; Sp. p. 5878; Gaz. vol. 143; p. 1016.
- Electric machines, Bridging-block for dynamo-. F. W. Young. No. 941,180; Nov. 23; Sp. p. 6053; Gaz. vol. 148; p. 1015.
- Electric machines, Bridging-block for dynamo-. F. W. Young. No. 941,182; Nov. 23; Sp. p. 6055; Gaz. vol. 148; p. 1016.
- Electric machines, Brush-rigging for dynamo-. G. Dunn. No. 922,107; May 18; Sp. p. 4143; Gaz. vol. 142; p. 724.
- Electric machines, Cooling dynamo-. J. G. Callan. No. 920,725; May 4; Sp. p. 1295; Gaz. vol. 142; p. 208.
- Electric machines, Core-spacing member for dynamo-. B. A. Behrend. No. 925,271; June 15; Sp. p. 4600; Gaz. vol. 143; p. 786.
- Electric machines, Cross connection for dynamo-. R. Siegfried. No. 941,388; Nov. 30; Sp. p. 6495; Gaz. vol. 148; p. 1103.
- Electric machines, Means for starting dynamo-. W. D. Pomeroy. No. 909,216; Jan. 12; Sp. p. 1615; Gaz. vol. 138; p. 290.
- Electric machines, Method of and means for operating dynamo-. B. G. Lammie. No. 925,355; June 15; Sp. p. 4752; Gaz. vol. 143; p. 811.
- Electric machines, Pole-piece for dynamo-. L. E. Underwood. No. 920,886; May 4; Sp. p. 1623; Gaz. vol. 142; p. 259.
- Electric machines or motors, Brush-holder for dynamo-. C. E. K. Zachau. No. 924,716; June 15; Sp. p. 3483; Gaz. vol. 143; p. 600.
- Electric machines, Winding for dynamo-. H. C. Specht. No. 931,156; Aug. 17; Sp. p. 3238; Gaz. vol. 145; p. 565.
- Electric machinery, Dynamo-. C. A. Parsons and A. H. Law. No. 925,499; June 22; Sp. p. 5030; Gaz. vol. 143; p. 887.
- Electric metal-working apparatus. A. E. Buchenberg. No. 913,616; Feb. 23; Sp. p. 5371; Gaz. vol. 139; p. 949.
- Electric meter. R. C. Lanphier. No. 910,548; Jan. 26; Sp. p. 4334; Gaz. vol. 138; p. 796.
- Electric meter. W. R. Whitney. No. 925,064; June 15; Sp. p. 4210; Gaz. vol. 143; p. 717.
- Electric meter. P. C. Morganthaler. No. 925,125; June 15; Sp. p. 4329; Gaz. vol. 143; p. 738.
- Electric meter. D. C. Jackson. No. 928,521; July 20; Sp. p. 3781; Gaz. vol. 144; p. 664.
- Electric meter. T. Duncan. No. 929,123; July 27; Sp. p. 5011; Gaz. vol. 144; p. 891.
- Electric meter. F. M. Vogel. No. 941,436; Nov. 30; Sp. p. 6606; Gaz. vol. 148; p. 1120.
- Electric meter. P. C. Morganthaler. No. 941,459; Nov. 30; Sp. p. 6654; Gaz. vol. 148; p. 1128.
- Electric meter. W. Stanley. No. 941,468; Nov. 30; Sp. p. 6675; Gaz. vol. 148; p. 1131.
- Electric motor. J. Burke. No. 909,057; Jan. 5; Sp. p. 1272; Gaz. vol. 138; p. 204.
- Electric motor. G. Seidel. No. 912,037; Feb. 9; Sp. p. 2072; Gaz. vol. 139; p. 361.
- Electric motor. R. Siegfried. No. 917,806; Apr. 13; Sp. p. 1691; Gaz. vol. 141; p. 313.
- Electric motor. L. F. Johnson. No. 918,861; Apr. 20; Sp. p. 3959; Gaz. vol. 141; p. 696.
- Electric motor. E. F. W. Alexanderson. No. 919,514; Apr. 27; Sp. p. 5506; Gaz. vol. 141; p. 946.
- Electric motor. R. E. Barker. No. 919,523; Apr. 27; Sp. p. 5525; Gaz. vol. 141; p. 949.
- Electric motor. E. F. W. Alexanderson. No. 923,311; June 1; Sp. p. 470; Gaz. vol. 143; p. 66.
- Electric motor. H. C. Grant. No. 931,416; Aug. 17; Sp. p. 3797; Gaz. vol. 145; p. 655.
- Electric motor. O. H. and A. F. Pieper. No. 932,896; Aug. 31; Sp. p. 6897; Gaz. vol. 145; p. 1185.
- Electric motor. A. A. Prevost. No. 934,462; Sept. 21; Sp. p. 3015; Gaz. vol. 146; p. 525.
- Electric motor. L. A. McCoubrie and C. F. Raydure. No. 943,155; Dec. 14; Sp. p. 2430; Gaz. vol. 149; p. 413.
- Electric motor, Alternating-current. J. T. Schaff. No. 939,331; Nov. 9; Sp. p. 1939; Gaz. vol. 148; p. 331.
- Electric-motor-control system. W. Cooper. No. 912,995; Feb. 23; Sp. p. 4081; Gaz. vol. 139; p. 740.
- Electric-motor controller. R. L. Munson. No. 912,871; Feb. 16; Sp. p. 3829; Gaz. vol. 139; p. 675.
- Electric-motor field-spool. E. H. Anderson. No. 916,961; Apr. 6; Sp. p. 3; Gaz. vol. 141; p. 3.
- Electric motor for high-tension currents. N. Myschkin. No. 913,541; Feb. 23; Sp. p. 5182; Gaz. vol. 139; p. 924.
- Electric motor, Reciprocating. C. W. Tremain. No. 920,222; May 4; Sp. p. 265; Gaz. vol. 142; p. 42.
- Electric outlet-box. C. J. Dorff. No. 926,246; June 29; Sp. p. 6633; Gaz. vol. 143; p. 1170.
- Electric outlet-box. C. J. Dorff. No. 928,251; July 20; Sp. p. 3225; Gaz. vol. 144; p. 574.
- Electric outlet-boxes, Hanger for. A. McMurtrie. No. 935,319; Sept. 28; Sp. p. 4716; Gaz. vol. 146; p. 836.
- Electric-power-distribution panel-board. M. E. Ames. No. 919,516; Apr. 27; Sp. p. 5510; Gaz. vol. 141; p. 946.
- Electric power for traction purposes, System for the distribution of. R. A. Wagant. No. 914,365; Mar. 2; Sp. p. 1521; Gaz. vol. 140; p. 235.
- Electric process for gassing threads. G. Gin and V. Courteuisse. No. 918,439; Apr. 13; Sp. p. 2995; Gaz. vol. 141; p. 526.
- Electric protection system. C. V. Carpenter. No. 927,111; July 6; Sp. p. 866; Gaz. vol. 144; p. 139.
- Electric protection system. O. Jacobson. No. 937,941; Oct. 26; Sp. p. 4884; Gaz. vol. 147; p. 843.
- Electric railway-signal. C. H. Smith. No. 908,895; Jan. 5; Sp. p. 955; Gaz. vol. 138; p. 152.
- Electric recording instrument. L. T. Robinson. No. 910,956; Jan. 26; Sp. p. 5143; Gaz. vol. 138; p. 927.
- Electric regulator. M. Moskowitz. No. 918,578; Apr. 20; Sp. p. 3300; Gaz. vol. 141; p. 600.
- Electric relay. F. Townsend. No. 911,549; Feb. 2; Sp. p. 999; Gaz. vol. 139; p. 174.
- Electric resistance apparatus. M. Hankin. No. 942,555; Dec. 7; Sp. p. 1102; Gaz. vol. 149; p. 179.
- Electric resistance unit or element. W. S. Hadaway, Jr. No. 918,536; Apr. 20; Sp. p. 3204; Gaz. vol. 141; p. 587.
- Electric selecting mechanism. H. C. Horstmann. No. 929,133; July 27; Sp. p. 5034; Gaz. vol. 144; p. 895.
- Electric separator. G. D. Rogers. No. 940,282; Nov. 16; Sp. p. 4069; Gaz. vol. 148; p. 690.
- Electric service-circuits, Connect-on-block for. J. G. Swallow and W. E. McCoy. No. 927,384; July 6; Sp. p. 1363; Gaz. vol. 144; p. 226.
- Electric-shade holder. E. F. Gennert. No. 935,012; Sept. 28; Sp. p. 4099; Gaz. vol. 146; p. 735.
- Electric signal. P. I. Chandeysson. No. 922,391; May 18; Sp. p. 4708; Gaz. vol. 142; p. 816.
- Electric signal. W. K. Howe. No. 933,756; Sept. 14; Sp. p. 1632; Gaz. vol. 146; p. 269.
- Electric signal. A. F. Dixon. No. 944,545; Dec. 28; Sp. p. 5427; Gaz. vol. 149; p. 943.
- Electric signal-bell. H. W. Eden. No. 908,848; Jan. 5; Sp. p. 866; Gaz. vol. 138; p. 137.
- Electric signaling. R. A. Fessenden. No. 915,280; Mar. 16; Sp. p. 3358; Gaz. vol. 140; p. 586.
- Electric signaling. J. Mladek. No. 931,632; Aug. 17; Sp. p. 4199; Gaz. vol. 145; p. 720.
- Electric signaling, Selective. A. H. Nicholson. No. 909,651; Jan. 12; Sp. p. 2458; Gaz. vol. 138; p. 436.
- Electric signaling system. H. W. Souder. No. 915,237; Mar. 16; Sp. p. 3275; Gaz. vol. 140; p. 573.
- Electric sockets to fixtures, Means for locking. H. Hubbell. No. 945,078; Dec. 14; Sp. p. 2280; Gaz. vol. 149; p. 387.
- Electric speedometer and odometer. H. Bonbright. No. 910,898; Jan. 26; Sp. p. 5087; Gaz. vol. 138; p. 907.
- Electric switch. T. M. Smith. No. 910,239; Jan. 19; Sp. p. 3664; Gaz. vol. 138; p. 666.
- Electric switch. E. B. Wedmore. No. 910,333; Jan. 19; Sp. p. 3888; Gaz. vol. 138; p. 699.
- Electric switch. B. W. Macy. No. 910,835; Jan. 26; Sp. p. 4920; Gaz. vol. 138; p. 888.
- Electric switch. E. M. Carr. No. 913,809; Mar. 2; Sp. p. 275; Gaz. vol. 140; p. 47.
- Electric switch. S. G. Read. No. 914,878; Mar. 9; Sp. p. 2574; Gaz. vol. 140; p. 430.
- Electric switch. W. Drake and L. C. Hatch. No. 917,025; Apr. 6; Sp. p. 136; Gaz. vol. 141; p. 26.
- Electric switch. G. Wright. No. 919,994; Apr. 27; Sp. p. 6472; Gaz. vol. 141; p. 1106.
- Electric switch. C. W. Denny. No. 920,032; Apr. 27; Sp. p. 6564; Gaz. vol. 141; p. 1119.
- Electric switch. W. V. Steiger. No. 922,443; May 18; Sp. p. 4822; Gaz. vol. 142; p. 834.
- Electric switch. C. R. Beebe. No. 922,746; May 25; Sp. p. 5459; Gaz. vol. 142; p. 961.
- Electric switch. E. O. Schweitzer and A. Herz. No. 923,129; May 25; Sp. p. 6271; Gaz. vol. 142; p. 1084.
- Electric switch. N. H. Suren. No. 929,635; July 27; Sp. p. 6058; Gaz. vol. 144; p. 1060.
- Electric switch. H. E. Reeve. No. 933,489; Sept. 7; Sp. p. 1092; Gaz. vol. 146; p. 167.
- Electric switch. J. G. Peterson. No. 935,226; Sept. 28; Sp. p. 4523; Gaz. vol. 146; p. 805.
- Electric switch. H. D. Grinnell. No. 936,775; Oct. 12; Sp. p. 2458; Gaz. vol. 147; p. 409.
- Electric switch. G. W. Hart. No. 938,664; Nov. 2; Sp. p. 485; Gaz. vol. 148; p. 75.
- Electric switch. F. Hoerie. No. 939,258; Nov. 9; Sp. p. 1749; Gaz. vol. 148; p. 304.
- Electric switch. J. H. Rusby. No. 939,863; Nov. 9; Sp. p. 3104; Gaz. vol. 148; p. 512.
- Electric switch. O. M. Knoblock. No. 940,328; Nov. 16; Sp. p. 4177; Gaz. vol. 148; p. 705.
- Electric switch. W. A. Morse. No. 941,266; Nov. 23; Sp. p. 6224; Gaz. vol. 148; p. 1043.
- Electric switch. F. W. Smith. No. 941,660; Nov. 30; Sp. p. 7065; Gaz. vol. 148; p. 1194.
- Electric switch. W. L. R. Emmet and E. M. Hewlett. No. 942,491; Dec. 7; Sp. p. 970; Gaz. vol. 149; p. 157.
- Electric switch. M. Guett. No. 943,016; Dec. 14; Sp. p. 2130; Gaz. vol. 149; p. 165.
- Electric switch. H. J. Carrigan and A. J. Sangster. No. 943,215; Dec. 14; Sp. p. 2544; Gaz. vol. 149; p. 431.
- Electric switch and outlet-box. A. H. Kling. No. 935,915; Oct. 5; Sp. p. 679; Gaz. vol. 147; p. 99.
- Electric switch apparatus. A. F. Berry. No. 930,928; Aug. 10; Sp. p. 2688; Gaz. vol. 145; p. 460.
- Electric switch, Automatically-operated. J. C. Calhoun. No. 919,535; Apr. 27; Sp. p. 5545; Gaz. vol. 141; p. 953.
- Electric switch, Centripetal. T. J. Downer. No. 925,312; June 15; Sp. p. 4676; Gaz. vol. 143; p. 798.



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- Electric-switch-controlling system. F. G. Proutt. No. 928,068; July 13; Sp. p. 2833; Gaz. vol. 144; p. 483.  
 Electric switch for railway-traffic-controlling devices. L. Griffith. No. 921,237; May 11; Sp. p. 2337; Gaz. vol. 142; p. 409.  
 Electric switch instrument. C. W. Coleman. No. 927,714; July 13; Sp. p. 2105; Gaz. vol. 144; p. 365.  
 Electric switch-lock. W. P. Neubert. No. 914,447; Mar. 9; Sp. p. 1679; Gaz. vol. 140; p. 287.  
 Electric switch or signal controlling apparatus. N. T. Shaw. No. 916,039; Mar. 23; Sp. p. 4884; Gaz. vol. 140; p. 865.  
 Electric switch, Pendant. G. B. Thomas. No. 926,622; June 29; Sp. p. 7332; Gaz. vol. 143; p. 1293.  
 Electric switch, Push-button. J. G. Peterson. No. 922,034; May 18; Sp. p. 4006; Gaz. vol. 142; p. 700.  
 Electric switch, Push-button. L. G. Moulthrop. No. 932,883; Aug. 31; Sp. p. 6875; Gaz. vol. 145; p. 1180.  
 Electric switch, Rotary snap. C. H. Perkins. No. 908,694; Jan. 5; Sp. p. 557; Gaz. vol. 138; p. 87.  
 Electric-switch shunt-contact. W. M. Scott. No. 914,677; Mar. 9; Sp. p. 2162; Gaz. vol. 140; p. 363.  
 Electric switches, Movable contact for. J. G. Peterson. No. 922,033; May 18; Sp. p. 4005; Gaz. vol. 142; p. 700.  
 Electric system, Receiving. C. Wirth and C. Beck. No. 930,588; Aug. 10; Sp. p. 1987; Gaz. vol. 145; p. 348.  
 Electric terminal. G. C. Landis. No. 922,917; May 25; Sp. p. 5826; Gaz. vol. 142; p. 1016.  
 Electric-terminal clip. G. McIntyre. No. 910,842; Jan. 26; Sp. p. 4931; Gaz. vol. 138; p. 890.  
 Electric-terminal clip. W. E. Dow. No. 911,032; Feb. 2; Sp. p. 19; Gaz. vol. 139; p. 5.  
 Electric testing instrument. H. G. Addie. No. 925,412; June 15; Sp. p. 4850; Gaz. vol. 143; p. 829.  
 Electric time-controlled device. W. J. Lunger. No. 930,871; Aug. 10; Sp. p. 2562; Gaz. vol. 145; p. 442.  
 Electric time-switch. W. E. Richter. No. 913,052; Feb. 23; Sp. p. 4193; Gaz. vol. 139; p. 759.  
 Electric time-switch. O. A. Bruun. No. 927,486; July 13; Sp. p. 1606; Gaz. vol. 144; p. 288.  
 Electric time-switch. J. and J. Jones, Jr. No. 931,617; Aug. 17; Sp. p. 4179; Gaz. vol. 145; p. 716.  
 Electric time-switch. A. Weinberg. No. 937,559; Oct. 19; Sp. p. 4109; Gaz. vol. 147; p. 699.  
 Electric time-switch. G. R. Clark. No. 944,319; Dec. 28; Sp. p. 4900; Gaz. vol. 149; p. 864.  
 Electric traction on the surface-contact system. D. Suchostauer. No. 913,782; Mar. 2; Sp. p. 224; Gaz. vol. 140; p. 37.  
 Electric transformer and governor. E. R. Cliff. No. 942,544; Dec. 7; Sp. p. 1081; Gaz. vol. 149; p. 175.  
 Electric transformer-furnace. O. Frick. No. 917,040; Apr. 6; Sp. p. 160; Gaz. vol. 141; p. 31.  
 Electric transformer-furnace. O. Frick. No. 932,013; Aug. 24; Sp. p. 5084; Gaz. vol. 145; p. 869.  
 Electric transformer-furnace. O. Frick. No. 933,169; Sept. 7; Sp. p. 280; Gaz. vol. 146; p. 47.  
 Electric transmission of intelligence. I. Kitsee. No. 918,866; Apr. 20; Sp. p. 3972; Gaz. vol. 141; p. 698.  
 Electric transmission of messages. G. Sellers. No. 939,339; Nov. 9; Sp. p. 1964; Gaz. vol. 148; p. 334.  
 Electric trap. G. S. Riggs. No. 913,053; Feb. 23; Sp. p. 4197; Gaz. vol. 139; p. 759.  
 Electric trap for rats, &c. J. T. Norris. No. 909,814; Jan. 12; Sp. p. 2779; Gaz. vol. 138; p. 489.  
 Electric welding. C. E. Thompson. No. 910,434; Jan. 19; Sp. p. 4094; Gaz. vol. 138; p. 734.  
 Electric-wire cleat. A. L. Vickers. No. 910,975; Jan. 26; Sp. p. 5176; Gaz. vol. 138; p. 933.  
 Electric-wire conduit. H. N. Speer. No. 928,255; July 20; Sp. p. 3322; Gaz. vol. 144; p. 587.  
 Electric wire for vulcanization, Machine for reeling covered. W. Wendtland. No. 918,235; Apr. 13; Sp. p. 2587; Gaz. vol. 141; p. 461.  
 Electric wire or conductor support. C. C. Gould. No. 916,435; Mar. 30; Sp. p. 5629; Gaz. vol. 140; p. 1020.  
 Electric wires, Cleat for. W. F. Ritter. No. 934,463; Sept. 21; Sp. p. 3016; Gaz. vol. 146; p. 526.  
 Electric wires, Connection-rossette for. J. L. Burton. No. 942,710; Dec. 7; Sp. p. 1399; Gaz. vol. 149; p. 230.  
 Electric-wiring cleat. R. McLennan. No. 911,429; Feb. 2; Sp. p. 783; Gaz. vol. 139; p. 136.  
 Electric wiring, Molding for. W. H. G. Kirkpatrick. No. 936,639; Oct. 12; Sp. p. 2198; Gaz. vol. 147; p. 363.  
 Electric-wiring protecting-box. H. W. Eden. No. 938,373; Oct. 26; Sp. p. 5829; Gaz. vol. 147; p. 990.  
 Electrical aerial distribution systems, Forming junction and feeding points in. H. Behrend. No. 918,262; Apr. 13; Sp. p. 2650; Gaz. vol. 141; p. 470.  
 Electrical and other fixture clamp. W. M. Meacham. No. 913,024; Feb. 23; Sp. p. 4129; Gaz. vol. 139; p. 750.  
 Electrical apparatus. O. Schaumberg. No. 913,060; Feb. 23; Sp. p. 4207; Gaz. vol. 139; p. 761.  
 Electrical apparatus. H. C. Soule. No. 921,018; May 11; Sp. p. 1881; Gaz. vol. 142; p. 333.  
 Electrical apparatus. W. J. Foster. No. 924,977; June 15; Sp. p. 4043; Gaz. vol. 143; p. 689.  
 Electrical apparatus and method of manufacturing and operating the same. J. T. H. Dempster. No. 917,018; Apr. 6; Sp. p. 117; Gaz. vol. 141; p. 23.  
 Electrical apparatus, Coin-controlled. A. W. Roovers. No. 912,734; Feb. 16; Sp. p. 3578; Gaz. vol. 139; p. 632.  
 Electrical-apparatus controller. F. Darlington. No. 921,642; May 11; Sp. p. 3189; Gaz. vol. 142; p. 545.  
 Electrical-apparatus synchronizing means. A. C. Crehore. No. 913,363; Feb. 23; Sp. p. 4823; Gaz. vol. 139; p. 864.  
 Electrical apparatus, Terminal structure for. J. H. Zimmermann. No. 921,053; May 11; Sp. p. 1945; Gaz. vol. 142; p. 345.  
 Electrical apparatus, Vapor. H. M. Scheibe. No. 940,736; Nov. 23; Sp. p. 5084; Gaz. vol. 148; p. 867.  
 Electrical apparatus, Ventilating plate and spacer for. H. D. Summers. No. 934,369; Sept. 14; Sp. p. 2820; Gaz. vol. 146; p. 471.  
 Electrical apparatus, Wall-cabinet for. H. T. Paiste. No. 933,661; Sept. 7; Sp. p. 1416; Gaz. vol. 146; p. 215.  
 Electrical apparatus, Wall-cabinet for. E. R. Le Manuais. No. 942,002; Nov. 30; Sp. p. 7785; Gaz. vol. 148; p. 1311.  
 Electrical appliance. J. S. Stewart. No. 920,786; May 4; Sp. p. 1404; Gaz. vol. 142; p. 227.  
 Electrical appliance. J. S. Stewart. No. 931,518; Aug. 17; Sp. p. 3986; Gaz. vol. 145; p. 687.  
 Electrical-appliance swivel. A. A. Low and H. Hertzberg. No. 913,831; Mar. 2; Sp. p. 313; Gaz. vol. 140; p. 54.  
 Electrical-box coupling. R. M. Thomas. No. 916,938; Mar. 30; Sp. p. 6631; Gaz. vol. 140; p. 1181.  
 Electrical-cable terminal. C. W. Davis. No. 941,860; Nov. 30; Sp. p. 7514; Gaz. vol. 148; p. 1264.  
 Electrical cableway system. O. Adam. No. 943,509; Dec. 14; Sp. p. 3176; Gaz. vol. 149; p. 534.  
 Electrical-circuit automatic trunking apparatus. L. O. Surles. No. 919,491; Apr. 27; Sp. p. 5467; Gaz. vol. 141; p. 939.  
 Electrical-circuit breaker. C. Aalborg. No. 936,594; Oct. 12; Sp. p. 2093; Gaz. vol. 147; p. 348.  
 Electrical-circuit breaker, Safety. W. F. Woche, R. L. Lemon, and L. H. Mortsoif. No. 922,654; May 25; Sp. p. 5267; Gaz. vol. 142; p. 931.  
 Electrical-circuit breaker, Safety. W. F. Woche, R. L. Lemon, and L. H. Mortsoif. No. 940,910; Nov. 23; Sp. p. 5449; Gaz. vol. 148; p. 923.  
 Electrical-circuit breaker, Safety. W. F. Woche, R. L. Lemon, and L. H. Mortsoif. No. 941,002; Nov. 23; Sp. p. 5548; Gaz. vol. 148; p. 955.  
 Electrical-circuit breaking and making device for telegraphic purposes. C. E. Davies. No. 916,918; Mar. 30; Sp. p. 6584; Gaz. vol. 140; p. 1174.  
 Electrical-circuit controller. H. W. Eichbaum. No. 916,958; Mar. 30; Sp. p. 6667; Gaz. vol. 140; p. 1188.  
 Electrical circuit or circuits, Device for making an. W. S. Ryan. No. 926,680; June 29; Sp. p. 7436; Gaz. vol. 143; p. 1311.  
 Electrical circuits, System of controlling the strength of direct currents in. M. M. Osnos. No. 914,177; Mar. 2; Sp. p. 1125; Gaz. vol. 140; p. 176.  
 Electrical clutch and brake. A. P. Steckel and F. D. Thomson. No. 912,504; Feb. 16; Sp. p. 3047; Gaz. vol. 139; p. 551.  
 Electrical coil. M. C. Rypinski. No. 936,669; Oct. 12; Sp. p. 2257; Gaz. vol. 147; p. 375.  
 Electrical conducting system. W. E. Athearn. No. 940,655; Nov. 23; Sp. p. 4900; Gaz. vol. 148; p. 839.  
 Electrical conductor. I. Kitsee. No. 942,332; Dec. 7; Sp. p. 642; Gaz. vol. 149; p. 103.  
 Electrical-conductor junction-box. J. F. Burns. No. 927,218; July 6; Sp. p. 1069; Gaz. vol. 144; p. 173.  
 Electrical-conductor junction-box. J. F. Burns. No. 927,219; July 6; Sp. p. 1070; Gaz. vol. 144; p. 173.  
 Electrical conductors, Current-leak indicator for. R. S. Masson. No. 929,773; Aug. 3; Sp. p. 297; Gaz. vol. 145; p. 51.  
 Electrical conduits, &c., Connecting device for. A. McMurtrie. No. 916,931; Mar. 30; Sp. p. 6611; Gaz. vol. 140; p. 1178.  
 Electrical connecting device. E. A. Colby. No. 916,844; Mar. 30; Sp. p. 6436; Gaz. vol. 140; p. 1149.  
 Electrical connection. G. H. Pride. No. 913,160; Feb. 23; Sp. p. 4400; Gaz. vol. 139; p. 795.  
 Electrical-connection rosette. J. L. Burton. No. 923,327; June 1; Sp. p. 507; Gaz. vol. 143; p. 72.  
 Electrical connections, Protective conduit-holder for. J. F. McElroy. No. 923,686; June 1; Sp. p. 1262; Gaz. vol. 143; p. 196.  
 Electrical connector. G. A. Schreier. No. 909,030; Jan. 5; Sp. p. 1221; Gaz. vol. 138; p. 196.  
 Electrical connector. G. E. Palmer. No. 923,071; May 25; Sp. p. 6141; Gaz. vol. 142; p. 1065.  
 Electrical contact device. C. F. Jenkins. No. 942,647; Dec. 7; Sp. p. 1286; Gaz. vol. 149; p. 210.  
 Electrical contact device. J. M. Smith. No. 943,281; Dec. 14; Sp. p. 2692; Gaz. vol. 149; p. 454.  
 Electrical control system. P. H. Thomas. No. 916,223; Mar. 23; Sp. p. 5227; Gaz. vol. 140; p. 923.  
 Electrical controller. H. A. Steen and A. J. Loguin. No. 923,597; June 1; Sp. p. 1090; Gaz. vol. 143; p. 167.  
 Electrical controlling device. J. T. Whalen. No. 914,094; Mar. 2; Sp. p. 944; Gaz. vol. 140; p. 148.  
 Electrical controlling mechanism. W. O. Haymond and J. O. Potter. No. 910,058; Jan. 19; Sp. p. 3273; Gaz. vol. 138; p. 604.  
 Electrical currents, Apparatus for strengthening weak. A. Pollák. No. 939,625; Nov. 9; Sp. p. 2611; Gaz. vol. 148; p. 430.  
 Electrical currents, Unidirecting. E. A. Burlingame. No. 928,583; July 20; Sp. p. 3917; Gaz. vol. 144; p. 684.  
 Electrical-device joint. J. Keefe. No. 934,670; Sept. 21; Sp. p. 3413; Gaz. vol. 146; p. 595.  
 Electrical device or machine, Coin-controlled. J. Weiner. No. 912,924; Feb. 16; Sp. p. 3928; Gaz. vol. 139; p. 691.  
 Electrical devices, Strain-relief for. G. W. Goodridge. No. 938,313; Oct. 26; Sp. p. 5691; Gaz. vol. 147; p. 969.  
 Electrical devices, Wire attachment for. H. Trumbull. No. 922,360; May 18; Sp. p. 4633; Gaz. vol. 142; p. 805.  
 Electrical discharge apparatus. N. J. Neall. No. 936,656; Oct. 12; Sp. p. 2233; Gaz. vol. 147; p. 370.  
 Electrical-distribution system. A. S. Hubbard. No. 915,768; Mar. 23; Sp. p. 4380; Gaz. vol. 140; p. 778.



*Alphabetical list of inventions—Continued.*

- Electrical-distribution system. F. J. White. No. 915,915; Mar. 23; Sp. p. 4644; Gaz. vol. 140; p. 824.  
 Electrical-distribution system. W. A. Turbayne. No. 919,267; Apr. 20; Sp. p. 4933; Gaz. vol. 141; p. 827.  
 Electrical-distribution system. J. L. Woodbridge. No. 919,670; Apr. 27; Sp. p. 5823; Gaz. vol. 141; p. 1000.  
 Electrical-distribution system. B. R. Shover. No. 921,630; May 11; Sp. p. 3160; Gaz. vol. 142; p. 540.  
 Electrical-distribution system. M. O. Troy. No. 921,918; May 18; Sp. p. 3759; Gaz. vol. 142; p. 662.  
 Electrical-distribution system. R. Braun. No. 924,628; June 15; Sp. p. 3309; Gaz. vol. 143; p. 569.  
 Electrical-distribution system. H. M. Hobart and E. Coad. No. 925,102; June 15; Sp. p. 4287; Gaz. vol. 143; p. 731.  
 Electrical-distribution system. B. Frankenhof. No. 931,404; Aug. 17; Sp. p. 3772; Gaz. vol. 145; p. 651.  
 Electrical-distribution system. F. G. Beetem. No. 937,018; Oct. 12; Sp. p. 2942; Gaz. vol. 147; p. 489.  
 Electrical-distribution system. A. S. Hubbard. No. 938,865; Nov. 2; Sp. p. 907; Gaz. vol. 148; p. 142.  
 Electrical-distribution system. W. A. Turbayne. No. 941,113; Nov. 23; Sp. p. 5884; Gaz. vol. 148; p. 991.  
 Electrical-distribution system. R. J. Dearborn. No. 941,362; Nov. 30; Sp. p. 6430; Gaz. vol. 148; p. 1095.  
 Electrical-distribution system. P. M. Lincoln. No. 941,372; Nov. 30; Sp. p. 6453; Gaz. vol. 148; p. 1099.  
 Electrical-distribution system. J. L. Woodbridge. No. 941,600; Nov. 30; Sp. p. 6938; Gaz. vol. 148; p. 1173.  
 Electrical-distribution system. J. L. Woodbridge. No. 941,601; Nov. 30; Sp. p. 6938; Gaz. vol. 148; p. 1174.  
 Electrical-distribution system. W. E. Winship. No. 941,690; Nov. 30; Sp. p. 7128; Gaz. vol. 148; p. 1204.  
 Electrical driving mechanism. G. C. Marx. No. 909,631; Jan. 12; Sp. p. 2420; Gaz. vol. 138; p. 428.  
 Electrical energy, Means for utilizing. T. F. Perkins. No. 927,675; July 13; Sp. p. 2029; Gaz. vol. 144; p. 353.  
 Electrical energy, Means for utilizing. T. F. Perkins. No. 928,214; July 13; Sp. p. 3124; Gaz. vol. 144; p. 532.  
 Electrical energy on any circuit, Arrangement for indicating and recording permanently the maximum demand for. W. W. Lackie and D. J. Steele. No. 933,845; Sept. 14; Sp. p. 1806; Gaz. vol. 146; p. 298.  
 Electrical energy, System of distributing. P. H. Thomas. No. 930,325; Aug. 3; Sp. p. 1413; Gaz. vol. 145; p. 235.  
 Electrical equalizer system. B. G. Lamme. No. 925,357; June 15; Sp. p. 4756; Gaz. vol. 143; p. 812.  
 Electrical equalizing system. B. G. Lamme. No. 924,799; June 15; Sp. p. 3666; Gaz. vol. 143; p. 628.  
 Electrical equalizing system. J. S. Peck. No. 924,927; June 15; Sp. p. 3926; Gaz. vol. 143; p. 670.  
 Electrical furnace. H. Nathusius. No. 920,078; Apr. 27; Sp. p. 6672; Gaz. vol. 141; p. 1134.  
 Electrical fuse-spitter. J. B. Sauve and F. Bernardi. No. 913,566; Feb. 23; Sp. p. 5269; Gaz. vol. 139; p. 933.  
 Electrical generators, Automatic tension-regulator for. A. Nicol. No. 910,949; Jan. 26; Sp. p. 5132; Gaz. vol. 138; p. 924.  
 Electrical ground connections, Irrigating device for. B. J. Jones. No. 921,844; May 18; Sp. p. 3629; Gaz. vol. 142; p. 639.  
 Electrical heater. J. A. Mears, Jr. No. 916,348; Mar. 23; Sp. p. 5442; Gaz. vol. 140; p. 966.  
 Electrical heating apparatus. E. L. van Dolsen. No. 908,712; Jan. 5; Sp. p. 599; Gaz. vol. 138; p. 93.  
 Electrical ignition apparatus. J. A. Torrens. No. 908,906; Jan. 5; Sp. p. 979; Gaz. vol. 138; p. 156.  
 Electrical-impulse-transmitting device. J. Erickson. No. 909,382; Jan. 12; Sp. p. 1925; Gaz. vol. 138; p. 343.  
 Electrical-impulse-transmitting device. J. Erickson. No. 909,383; Jan. 12; Sp. p. 1928; Gaz. vol. 138; p. 344.  
 Electrical indicating instrument. R. C. Lanphier. No. 910,549; Jan. 26; Sp. p. 4337; Gaz. vol. 138; p. 796.  
 Electrical indicating instrument. H. L. Van Valkenburg. No. 925,403; June 15; Sp. p. 4833; Gaz. vol. 143; p. 827.  
 Electrical insect-destroyer. P. J. Peterson. No. 914,875; Mar. 9; Sp. p. 2569; Gaz. vol. 140; p. 429.  
 Electrical instrument for pyrography and surgical purposes. L. Mandarelli. No. 930,203; Aug. 3; Sp. p. 1204; Gaz. vol. 145; p. 197.  
 Electrical load-equalizing system. B. G. Lamme. No. 925,356; June 15; Sp. p. 4754; Gaz. vol. 143; p. 811.  
 Electrical machinery, Controlling apparatus for. L. Krieger. No. 934,820; Sept. 21; Sp. p. 3715; Gaz. vol. 146; p. 645.  
 Electrical machines, Brush-holder for. J. H. Woollicroft. No. 921,327; May 11; Sp. p. 2535; Gaz. vol. 142; p. 427.  
 Electrical machines, Winding for. B. G. Lamme. No. 923,667; June 1; Sp. p. 1225; Gaz. vol. 143; p. 189.  
 Electrical measuring instrument. J. F. Begole. No. 913,939; Mar. 2; Sp. p. 587; Gaz. vol. 140; p. 94.  
 Electrical measuring instrument. D. C. Jackson. No. 929,854; Aug. 3; Sp. p. 493; Gaz. vol. 145; p. 79.  
 Electrical oscillations, Receiver for high-frequency. F. K. Vreeland. No. 930,508; Aug. 10; Sp. p. 1787; Gaz. vol. 145; p. 321.  
 Electrical oscillations, Receiving system for. E. Quäck and F. V. D. Woude. No. 936,163; Oct. 5; Sp. p. 1181; Gaz. vol. 147; p. 179.  
 Electrical oscillations, Receiving system for high-frequency. F. K. Vreeland. No. 936,684; Oct. 12; Sp. p. 2289; Gaz. vol. 147; p. 379.  
 Electrical-power distribution, Panel-board for. A. C. McWilliams. No. 920,490; May 4; Sp. p. 793; Gaz. vol. 142; p. 129.  
 Electrical protective device. C. A. Rolfe. No. 920,778; May 4; Sp. p. 1383; Gaz. vol. 142; p. 224.  
 Electrical receptacle. G. W. Goodridge. No. 940,526; Nov. 16; Sp. p. 4625; Gaz. vol. 148; p. 771.  
 Electrical receptacle. F. J. Russell. No. 941,276; Nov. 23; Sp. p. 6255; Gaz. vol. 148; p. 1047.  
 Electrical-receptacle door-hinge. W. W. Jones. No. 913,504; Feb. 23; Sp. p. 5104; Gaz. vol. 139; p. 911.  
 Electrical receptacle, Weatherproof. F. J. Russell. No. 928,282; July 20; Sp. p. 3317; Gaz. vol. 144; p. 586.  
 Electrical-resistance device. H. S. Martin. No. 919,908; Apr. 27; Sp. p. 6316; Gaz. vol. 141; p. 1079.  
 Electrical rosette. C. D. Platt. No. 923,887; June 8; Sp. p. 1760; Gaz. vol. 143; p. 293.  
 Electrical selector. E. A. Faller. No. 927,455; July 6; Sp. p. 1530; Gaz. vol. 144; p. 252.  
 Electrical spark apparatus. E. C. Wilcox. No. 909,043; Jan. 5; Sp. p. 1241; Gaz. vol. 138; p. 200.  
 Electrical starting device. J. L. Schureman. No. 928,547; July 20; Sp. p. 3832; Gaz. vol. 144; p. 672.  
 Electrical switch. T. Clark and I. Vlasto. No. 913,810; Mar. 2; Sp. p. 277; Gaz. vol. 140; p. 47.  
 Electrical switch. F. W. Sanford. No. 919,472; Apr. 27; Sp. p. 5416; Gaz. vol. 141; p. 932.  
 Electrical switch. H. A. Beynon. No. 919,811; Apr. 27; Sp. p. 6138; Gaz. vol. 141; p. 1047.  
 Electrical switch. I. G. Waterman. No. 921,761; May 18; Sp. p. 3434; Gaz. vol. 142; p. 611.  
 Electrical switch. R. H. Manson. No. 926,951; July 6; Sp. p. 514; Gaz. vol. 144; p. 83.  
 Electrical switch. F. H. Buffehr. No. 933,956; Sept. 14; Sp. p. 2023; Gaz. vol. 146; p. 333.  
 Electrical switch, &c. D. K. Morris and G. A. Lister. No. 926,584; June 29; Sp. p. 7245; Gaz. vol. 143; p. 1281.  
 Electrical switch, Chronometric. J. L. Scheuble. No. 936,950; Oct. 12; Sp. p. 2795; Gaz. vol. 147; p. 467.  
 Electrical switchboard for theaters. C. T. Waddell. No. 925,732; June 22; Sp. p. 5522; Gaz. vol. 143; p. 963.  
 Electrical system. F. Conrad. No. 934,596; Sept. 21; Sp. p. 3261; Gaz. vol. 146; p. 569.  
 Electrical transmission of graphic messages. G. Sellers. No. 939,338; Nov. 9; Sp. p. 1957; Gaz. vol. 148; p. 334.  
 Electrical vibrations, Apparatus for the production of undamped. S. Eisenstein. No. 921,526; May 11; Sp. p. 2940; Gaz. vol. 142; p. 505.  
 Electrical wires, cables, and conduits, Connector for. R. W. Pittman. No. 911,267; Feb. 2; Sp. p. 483; Gaz. vol. 139; p. 83.  
 Electrical wiring on stand-pipes. Hood for. J. Potterton. No. 939,165; Nov. 2; Sp. p. 1534; Gaz. vol. 148; p. 248.  
 Electrically-controlled lock. W. H. Stevens. No. 908,813; Jan. 5; Sp. p. 791; Gaz. vol. 138; p. 124.  
 Electrically-controlled lock. A. Arnel and C. M. Legrand. No. 924,126; June 8; Sp. p. 2209; Gaz. vol. 143; p. 369.  
 Electrically-driven stages, lifts, and the like, Device for controlling. A. Böhrner. No. 916,259; Mar. 23; Sp. p. 5286; Gaz. vol. 140; p. 935.  
 Electrically-operated automatic switch. W. A. Lacke. No. 936,329; Oct. 12; Sp. p. 1500; Gaz. vol. 147; p. 259.  
 Electrically-operated brake. C. Saunders. No. 914,756; Mar. 9; Sp. p. 2329; Gaz. vol. 140; p. 390.  
 Electricity and gas, Fixture for. G. H. Jones. No. 908,675; Jan. 5; Sp. p. 528; Gaz. vol. 138; p. 81.  
 Electricity, Device for vending. E. Evans. No. 914,398; Mar. 9; Sp. p. 1591; Gaz. vol. 140; p. 271.  
 Electricity, Generating. H. S. Blackmore. No. 939,183; Nov. 2; Sp. p. 1568; Gaz. vol. 148; p. 254.  
 Electricity in moving material, Apparatus for neutralizing. W. H. Chapman. No. 940,428; Nov. 16; Sp. p. 4418; Gaz. vol. 148; p. 739.  
 Electricity, Means for neutralizing static. W. H. Chapman. No. 940,431; Nov. 16; Sp. p. 4425; Gaz. vol. 148; p. 740.  
 Electricity-meter. S. H. Holden. No. 925,185; June 15; Sp. p. 4452; Gaz. vol. 143; p. 759.  
 Electricity-meter. G. Hookham. No. 925,187; June 15; Sp. p. 4454; Gaz. vol. 143; p. 760.  
 Electricity-meter, Changeable-rate. A. Nicol. No. 920,623; May 4; Sp. p. 1070; Gaz. vol. 142; p. 174.  
 Electricity-meter, Pendulum. C. Féry. No. 943,531; Dec. 14; Sp. p. 3211; Gaz. vol. 149; p. 541.  
 Electricity, Neutralizing static. W. H. Chapman. No. 940,429; Nov. 16; Sp. p. 4421; Gaz. vol. 148; p. 739.  
 Electricity, Process and apparatus for neutralizing static. W. H. Chapman. No. 940,430; Nov. 16; Sp. p. 4423; Gaz. vol. 148; p. 740.  
 Electricity-rectifier. T. J. Murphy. No. 914,499; Mar. 9; Sp. p. 1775; Gaz. vol. 140; p. 304.  
 Electrode. H. Specketer. No. 931,513; Aug. 17; Sp. p. 3978; Gaz. vol. 145; p. 686.  
 Electrode, Arc-lamp. G. M. Little. No. 931,133; Aug. 17; Sp. p. 3179; Gaz. vol. 145; p. 556.  
 Electrode, Arc-lamp. S. P. Wilbur. No. 931,169; Aug. 17; Sp. p. 3264; Gaz. vol. 145; p. 569.  
 Electrode, Battery-. C. B. Schoenmehl. No. 922,726; May 25; Sp. p. 5410; Gaz. vol. 142; p. 953.  
 Electrode, Battery-. G. A. Wedekind and H. P. R. L. Poerscke. No. 937,730; Oct. 19; Sp. p. 4440; Gaz. vol. 147; p. 753.  
 Electrode, Cylindrical positive. E. O. Schneider. No. 924,503; June 8; Sp. p. 3028; Gaz. vol. 143; p. 495.  
 Electrode element for storage batteries. T. A. Edison. No. 940,635; Nov. 16; Sp. p. 4850; Gaz. vol. 148; p. 807.  
 Electrode for arc-lights. C. P. Steinmetz. No. 914,891; Mar. 9; Sp. p. 2598; Gaz. vol. 140; p. 434.  
 Electrode for electric-arc lamps. A. D. Jones. No. 944,139; Dec. 21; Sp. p. 4528; Gaz. vol. 149; p. 777.  
 Electrode for search-lights. H. Viertel. No. 917,200; Apr. 6; Sp. p. 489; Gaz. vol. 141; p. 85.  
 Electrode, Iron. M. Roloff. No. 934,839; Sept. 21; Sp. p. 3748; Gaz. vol. 146; p. 651.  
 Electrode or pencil for arc-lights. I. Ladoff. No. 909,428; Jan. 12; Sp. p. 2016; Gaz. vol. 138; p. 359.  
 Electrode seal, Arc-light-. E. R. Berry. No. 918,500; Apr. 20; Sp. p. 3140; Gaz. vol. 141; p. 576.



*Alphabetical list of inventions—Continued.*

- Electrode, Storage-battery. L. H. Flanders. No. 935,252; Sept. 28; Sp. p. 4579; Gaz. vol. 146; p. 814.
- Electrode support, Battery-. C. B. Schoenmehl. No. 922,727; May 25; Sp. p. 5411; Gaz. vol. 142; p. 954.
- Electrode support, Battery-. C. B. Schoenmehl and W. G. C. Krause. No. 922,728; May 25; Sp. p. 5413; Gaz. vol. 142; p. 954.
- Electrode support, Battery-. C. B. Schoenmehl and W. G. C. Krause. No. 922,729; May 25; Sp. p. 5415; Gaz. vol. 142; p. 954.
- Electrode support, Battery-. C. B. Schoenmehl. No. 922,730; May 25; Sp. p. 5416; Gaz. vol. 142; p. 955.
- Electrode-support for flaming-arc lamps. R. Scott. No. 929,332; July 27; Sp. p. 5495; Gaz. vol. 144; p. 963.
- Electrodes for electrolytical purposes, Making durable carbon. G. Adolph and A. Pietzsch. No. 934,988; Sept. 28; Sp. p. 4050; Gaz. vol. 146; p. 728.
- Electrodes, Making. E. W. Jungner. No. 917,875; Apr. 13; Sp. p. 1839; Gaz. vol. 141; p. 336.
- Electrodes, Making active material for storage-battery. J. W. Aylsworth. No. 938,451; Oct. 26; Sp. p. 5999; Gaz. vol. 147; p. 1017.
- Electrodes, Securing metal contacts to carbon. S. Benkö. No. 942,704; Dec. 7; Sp. p. 1389; Gaz. vol. 149; p. 228.
- Electrodeposition, Forming designs by. F. A. Walter. No. 924,020; June 8; Sp. p. 2022; Gaz. vol. 143; p. 335.
- Electrodeposits which can be removed from their base. H. Schmidt. No. 916,033; Mar. 23; Sp. p. 4873; Gaz. vol. 140; p. 863.
- Electroliser. J. H. Thompson. No. 909,040; Jan. 5; Sp. p. 1236; Gaz. vol. 138; p. 199.
- Electroliser. J. McGavin. No. 933,195; Sept. 7; Sp. p. 353; Gaz. vol. 146; p. 56.
- Electroliser and reflector therefor. W. H. Spencer. No. 924,289; June 8; Sp. p. 2607; Gaz. vol. 143; p. 425.
- Electroliser-bracket. I. Levinson. No. 922,490; May 25; Sp. p. 4920; Gaz. vol. 142; p. 876.
- Electroliser holder or hanger. J. C. Vogel. No. 926,445; June 29; Sp. p. 7010; Gaz. vol. 143; p. 1235.
- Electroliser shade-holder. H. A. Torrey. No. 932,834; Aug. 31; Sp. p. 6786; Gaz. vol. 145; p. 1164.
- Electroliser-switch. C. Tomschik. No. 924,295; June 8; Sp. p. 2622; Gaz. vol. 143; p. 427.
- Electrolyte. A. Van Winkle. No. 930,815; Aug. 10; Sp. p. 2450; Gaz. vol. 145; p. 424.
- Electrolyte and electrodeposition nickel. E. F. Kern. No. 942,729; Dec. 7; Sp. p. 1444; Gaz. vol. 149; p. 236.
- Electrolyte for use in electric batteries. W. J. L. Sandy. No. 940,734; Nov. 23; Sp. p. 5082; Gaz. vol. 148; p. 867.
- Electrolytic apparatus. O. Meyer. No. 914,856; Mar. 9; Sp. p. 2527; Gaz. vol. 140; p. 422.
- Electrolytic apparatus. I. L. Roberts. No. 936,039; Oct. 5; Sp. p. 925; Gaz. vol. 147; p. 140.
- Electrolytic apparatus. A. Brichaux. No. 937,918; Oct. 26; Sp. p. 4833; Gaz. vol. 147; p. 835.
- Electrolytic apparatus. H. H. Bates and J. A. Adam. No. 944,650; Dec. 28; Sp. p. 5643; Gaz. vol. 149; p. 979.
- Electrolytic arresters, Ground-lead connection for. E. E. F. Creighton. No. 923,338; June 1; Sp. p. 528; Gaz. vol. 143; p. 76.
- Electrolytic cell. J. H. Reid. No. 917,795; Apr. 13; Sp. p. 1672; Gaz. vol. 141; p. 310.
- Electrolytic cell. J. McPhail. No. 929,469; July 27; Sp. p. 5727; Gaz. vol. 144; p. 1005.
- Electrolytic cell for separating constituents of a mixture of metal or an alloy. H. Lacroix. No. 912,859; Feb. 16; Sp. p. 3812; Gaz. vol. 139; p. 671.
- Electrolytic cell or condenser. E. E. F. Creighton. No. 923,774; June 1; Sp. p. 1475; Gaz. vol. 143; p. 225.
- Electrolytic diaphragm and making the same. A. G. Betts. No. 929,276; July 27; Sp. p. 5349; Gaz. vol. 144; p. 942.
- Electrolytic meter. G. Hookham and S. H. Holden. No. 919,724; Apr. 27; Sp. p. 5929; Gaz. vol. 141; p. 1017.
- Electrolytic process. H. L. Hollis. No. 916,155; Mar. 23; Sp. p. 5095; Gaz. vol. 140; p. 902.
- Electrolytic process. A. G. Betts. No. 918,650; Apr. 20; Sp. p. 3497; Gaz. vol. 141; p. 625.
- Electrolytic process of producing compounds. C. E. Acker. No. 914,100; Mar. 2; Sp. p. 958; Gaz. vol. 140; p. 150.
- Electrolytic process of producing nitrogen compounds. C. E. Acker. No. 914,214; Mar. 2; Sp. p. 1187; Gaz. vol. 140; p. 187.
- Electrolytic slimes for the recovery of metals therefrom. Treating. A. J. McNab. No. 908,603; Jan. 5; Sp. p. 363; Gaz. vol. 138; p. 59.
- Electrolyzer. E. Hixon. No. 927,970; July 13; Sp. p. 2646; Gaz. vol. 144; p. 450.
- Electrolyzing apparatus. E. L. Thorp. No. 930,902; Aug. 10; Sp. p. 2640; Gaz. vol. 145; p. 452.
- Electromagnet. A. E. Sink. No. 929,256; July 27; Sp. p. 5275; Gaz. vol. 144; p. 935.
- Electromagnet. D. J. Hauss. No. 930,177; Aug. 3; Sp. p. 1167; Gaz. vol. 145; p. 190.
- Electromagnet-coil construction. A. A. Low. No. 931,445; Aug. 17; Sp. p. 3854; Gaz. vol. 145; p. 664.
- Electromagnet-coil construction. M. J. Wohl and H. Hertzberg. No. 931,540; Aug. 17; Sp. p. 4021; Gaz. vol. 145; p. 693.
- Electromagnet-coil construction. M. J. Wohl and H. Hertzberg. No. 931,541; Aug. 17; Sp. p. 4023; Gaz. vol. 145; p. 694.
- Electromagnet-coil construction. M. J. Wohl and H. Hertzberg. No. 931,542; Aug. 17; Sp. p. 4024; Gaz. vol. 145; p. 694.
- Electromagnet for clocks and motors. C. Arnold. No. 929,269; July 27; Sp. p. 5316; Gaz. vol. 144; p. 939.
- Electromagnets, Construction of. H. Lacy. No. 928,136; July 13; Sp. p. 2953; Gaz. vol. 144; p. 505.
- Electromagnetic accelerator. C. O. Pearson and A. Sundh. No. 944,497; Dec. 28; Sp. p. 5308; Gaz. vol. 149; p. 926.
- Electromagnetic apparatus for actuating mechanisms. S. H. Hoggson. No. 929,763; Aug. 3; Sp. p. 277; Gaz. vol. 145; p. 47.
- Electromagnetic device. E. A. Brofos. No. 938,740; Nov. 2; Sp. p. 625; Gaz. vol. 148; p. 99.
- Electromagnetic stamp-battery. J. P. Lynn. No. 910,834; Jan. 26; Sp. p. 4919; Gaz. vol. 138; p. 888.
- Electromagnetic structures, Method of and means for securing in position conductors of. B. Frankenfield. No. 911,713; Feb. 9; Sp. p. 1376; Gaz. vol. 139; p. 256.
- Electromagnetic switch. J. D. Ihlder. No. 936,724; Oct. 12; Sp. p. 2363; Gaz. vol. 147; p. 393.
- Electromagnetic-wave receiver. R. A. Fessenden. No. 916,429; Mar. 30; Sp. p. 5617; Gaz. vol. 140; p. 1018.
- Electromagnetic-wave signaling. R. A. Fessenden. No. 928,371; July 20; Sp. p. 3493; Gaz. vol. 144; p. 617.
- Electromagnetic waves, Receiver for. R. A. Fessenden. No. 921,531; May 11; Sp. p. 2946; Gaz. vol. 142; p. 506.
- Electromagnetically-controlled switch. A. S. Cubitt. No. 925,160; June 15; Sp. p. 4395; Gaz. vol. 143; p. 750.
- Electromagnetically-operated apparatus. R. E. Hellmund. No. 928,516; July 20; Sp. p. 3774; Gaz. vol. 144; p. 662.
- Electromechanical device. G. H. Rowe. No. 938,708; Nov. 2; Sp. p. 564; Gaz. vol. 148; p. 89.
- Electromechanical device. G. H. Rowe. No. 938,709; Nov. 2; Sp. p. 567; Gaz. vol. 148; p. 89.
- Electromotor automatic starter, Continuous-current-. G. A. Schoeller and H. Sundhausen. No. 913,437; Feb. 23; Sp. p. 4964; Gaz. vol. 139; p. 889.
- Electroplating apparatus. C. G. Backus. No. 908,439; Jan. 5; Sp. p. 8; Gaz. vol. 138; p. 4.
- Electroplating apparatus. J. T. Daniels. No. 911,578; Feb. 9; Sp. p. 1086; Gaz. vol. 139; p. 412.
- Electroplating apparatus. G. L. Meaker. No. 913,747; Mar. 2; Sp. p. 147; Gaz. vol. 140; p. 25.
- Electroplating apparatus. J. B. Russ and C. H. Poland. No. 925,599; June 22; Sp. p. 5286; Gaz. vol. 143; p. 921.
- Electroplating apparatus. L. Potthoff. No. 941,535; Nov. 30; Sp. p. 6807; Gaz. vol. 148; p. 1153.
- Electroplating objects, Mechanical arrangement for. W. Pianhauser. No. 936,472; Oct. 12; Sp. p. 1848; Gaz. vol. 147; p. 307.
- Electroplating plant. W. R. King. No. 929,312; July 27; Sp. p. 5432; Gaz. vol. 144; p. 955.
- Electroplating-tank. G. L. Wallace. No. 943,721; Dec. 21; Sp. p. 3654; Gaz. vol. 149; p. 635.
- Electroresponsive device. E. A. Terpening. No. 928,345; July 20; Sp. p. 3446; Gaz. vol. 144; p. 607.
- Electrotherapeutic apparatus. B. Y. Boyd. No. 926,384; June 29; Sp. p. 6893; Gaz. vol. 143; p. 1213.
- Electrothermostatic regulator. T. W. Fothergill. No. 915,582; Mar. 16; Sp. p. 3972; Gaz. vol. 140; p. 686.
- Electrotype-molds, Preparing. G. E. Duntun. No. 936,871; Oct. 12; Sp. p. 2649; Gaz. vol. 147; p. 441.
- Electrotype-plates, Apparatus for backing. G. E. Duntun. No. 931,738; Aug. 24; Sp. p. 4477; Gaz. vol. 145; p. 780.
- Electrotype-plates, Backing. G. E. Duntun. No. 915,021; Mar. 9; Sp. p. 2806; Gaz. vol. 140; p. 474.
- Electrotype-plates, Bending. B. F. Upham. No. 909,832; Jan. 12; Sp. p. 2806; Gaz. vol. 138; p. 495.
- Elevated carrier. W. Nummedahl. No. 926,283; June 29; Sp. p. 6695; Gaz. vol. 143; p. 1181.
- Elevating and cleaning material of a granular nature, Apparatus for. F. Beduwé. No. 914,475; Mar. 9; Sp. p. 1732; Gaz. vol. 140; p. 297.
- Elevating and dumping apparatus. A. Verschuren. No. 919,795; Apr. 27; Sp. p. 6055; Gaz. vol. 141; p. 1041.
- Elevating and loading mechanism. W. W. Brower. No. 936,517; Oct. 12; Sp. p. 1946; Gaz. vol. 147; p. 321.
- Elevating and lowering apparatus. E. P. Dandridge. No. 938,986; Nov. 2; Sp. p. 1160; Gaz. vol. 148; p. 185.
- Elevating chairs and like objects, Means for. J. Barker. No. 944,169; Dec. 21; Sp. p. 4590; Gaz. vol. 149; p. 787.
- Elevating device. E. Burk. No. 916,267; Mar. 23; Sp. p. 5300; Gaz. vol. 140; p. 938.
- Elevating device. A. F. Meyer. No. 920,602; May 4; Sp. p. 1026; Gaz. vol. 142; p. 167.
- Elevating device. W. H. Hunt. No. 943,936; Dec. 21; Sp. p. 4097; Gaz. vol. 149; p. 710.
- Elevator. See Aerial elevator; Automatic load-discharging elevator; Bed-elevator; Dumping-elevator; Electric elevator; Grain-shock elevator; Liquid-elevator; Pneumatic elevator; Portable elevator; Pressure-elevator; Rope-drive elevator; Safety-elevator; Telescoping elevator; Water-elevator.
- Elevator. C. C. Rittenhouse. No. 908,699; Jan. 5; Sp. p. 569; Gaz. vol. 138; p. 89.
- Elevator. W. Sherren and T. Mason. No. 909,695; Jan. 12; Sp. p. 2542; Gaz. vol. 138; p. 451.
- Elevator. M. E. Neenan. No. 912,256; Feb. 9; Sp. p. 2492; Gaz. vol. 139; p. 430.
- Elevator. C. H. Ocumpaugh. No. 920,630; May 4; Sp. p. 1085; Gaz. vol. 142; p. 176.
- Elevator. F. J. Feldt. No. 921,685; May 18; Sp. p. 3293; Gaz. vol. 142; p. 586.
- Elevator. J. P. O'Donnell. No. 922,620; May 25; Sp. p. 5200; Gaz. vol. 142; p. 920.
- Elevator. C. Devos. No. 925,462; June 22; Sp. p. 4966; Gaz. vol. 143; p. 876.
- Elevator. J. T. Cowley. No. 928,364; July 20; Sp. p. 3479; Gaz. vol. 144; p. 614.
- Elevator. A. C. Newton. No. 929,870; Aug. 3; Sp. p. 524; Gaz. vol. 145; p. 84.



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- Elevator. E. C. Porter. No. 930,224; Aug. 3; Sp. p. 1233; Gaz. vol. 145; p. 203.  
 Elevator. W. E. Courtney. No. 931,570; Aug. 17; Sp. p. 4079; Gaz. vol. 145; p. 702.  
 Elevator. B. M. Walpole. No. 933,506; Sept. 7; Sp. p. 1130; Gaz. vol. 146; p. 162.  
 Elevator. D. Corcoran. No. 934,141; Sept. 14; Sp. p. 2404; Gaz. vol. 146; p. 394.  
 Elevator. W. T. Long. No. 935,378; Sept. 28; Sp. p. 4834; Gaz. vol. 146; p. 855.  
 Elevator. D. C. Suplee. No. 938,027; Oct. 26; Sp. p. 5064; Gaz. vol. 147; p. 871.  
 Elevator. J. S. Mucklé. No. 938,268; Oct. 26; Sp. p. 5584; Gaz. vol. 147; p. 954.  
 Elevator. J. J. Burns. No. 944,942; Dec. 28; Sp. p. 6262; Gaz. vol. 149; p. 1076.  
 Elevator and mine-cage breakaway-clutch. M. C. Hutchings. No. 914,841; Mar. 9; Sp. p. 2498; Gaz. vol. 140; p. 417.  
 Elevator automatic control device. L. J. Milke. No. 923,366; June 1; Sp. p. 589; Gaz. vol. 143; p. 85.  
 Elevator automatic control device. L. J. Milke. No. 932,714; Aug. 31; Sp. p. 6538; Gaz. vol. 145; p. 1126.  
 Elevator automatic safety-stop. A. J. Dawe. No. 927,500; July 13; Sp. p. 1632; Gaz. vol. 144; p. 293.  
 Elevator automatic stopping and locking device. J. P. O'Donnell. No. 929,872; Aug. 3; Sp. p. 530; Gaz. vol. 145; p. 85.  
 Elevator-bin-slide controlling device. F. R. McQueen. No. 923,291; June 1; Sp. p. 415; Gaz. vol. 143; p. 59.  
 Elevator-brake-controlling device. W. H. C. Brenner. No. 916,835; Mar. 30; Sp. p. 6408; Gaz. vol. 140; p. 1146.  
 Elevator brushing device. M. B. Goff. No. 932,981; Aug. 31; Sp. p. 7049; Gaz. vol. 145; p. 1212.  
 Elevator-cage, Safety. C. H. Sturgis. No. 914,086; Mar. 2; Sp. p. 926; Gaz. vol. 140; p. 145.  
 Elevator car and well door operating mechanism. H. Rowntree. No. 931,224; Aug. 17; Sp. p. 3384; Gaz. vol. 145; p. 588.  
 Elevator-clamp. S. P. Nunnink and F. L. Miller. No. 930,412; Aug. 10; Sp. p. 1590; Gaz. vol. 145; p. 288.  
 Elevator control device, Automatic. L. J. Milke. No. 922,016; May 18; Sp. p. 3972; Gaz. vol. 142; p. 694.  
 Elevator-controlling mechanism. F. E. Turner. No. 911,184; Feb. 2; Sp. p. 310; Gaz. vol. 139; p. 55.  
 Elevator-controlling mechanism. T. Larsson. No. 911,888; Feb. 9; Sp. p. 1685; Gaz. vol. 139; p. 312.  
 Elevator-cupboard. C. H. Weller. No. 943,498; Dec. 14; Sp. p. 3140; Gaz. vol. 149; p. 529.  
 Elevator-door. A. J. Zitzmann. No. 913,181; Feb. 23; Sp. p. 4450; Gaz. vol. 139; p. 802.  
 Elevator-door automatic check and release mechanism. K. S. Evans. No. 910,654; Jan. 26; Sp. p. 4569; Gaz. vol. 138; p. 831.  
 Elevator-door, Counterbalancing. A. Tolf. No. 927,012; July 6; Sp. p. 639; Gaz. vol. 144; p. 104.  
 Elevator-door guard. L. Christiansen. No. 925,456; June 22; Sp. p. 4957; Gaz. vol. 143; p. 875.  
 Elevator-door latch. J. H. Stewart. No. 917,182; Apr. 6; Sp. p. 446; Gaz. vol. 141; p. 78.  
 Elevator-door opener and closer, Automatic safety. F. F. Boyd. No. 942,770; Dec. 7; Sp. p. 1525; Gaz. vol. 149; p. 250.  
 Elevator-door-opening attachment. A. E. Karg. No. 925,918; June 22; Sp. p. 5939; Gaz. vol. 143; p. 1025.  
 Elevator-door-operating device. J. J. Long. No. 917,880; Apr. 13; Sp. p. 1849; Gaz. vol. 141; p. 337.  
 Elevator-door-operating device. C. L. Gruhn. No. 935,103; Sept. 28; Sp. p. 4291; Gaz. vol. 146; p. 767.  
 Elevator-door-operating mechanism. F. K. Fassett. No. 937,696; Oct. 19; Sp. p. 4354; Gaz. vol. 147; p. 742.  
 Elevator-door safety device. H. A. McGrory. No. 911,323; Feb. 2; Sp. p. 597; Gaz. vol. 139; p. 102.  
 Elevator door, Sidewalk-. C. S. Hoffman. No. 928,756; July 20; Sp. p. 4261; Gaz. vol. 144; p. 742.  
 Elevator feed-wheel, Liquid-. J. F. Barker. No. 939,330; Nov. 9; Sp. p. 2085; Gaz. vol. 148; p. 348.  
 Elevator for beton-mixing machines. A. Schwyzler. No. 915,703; Mar. 16; Sp. p. 4234; Gaz. vol. 140; p. 629.  
 Elevator-gate automatic latch, Automatic-. H. A. Gilson and W. B. Beattie. No. 931,693; Aug. 17; Sp. p. 4365; Gaz. vol. 145; p. 741.  
 Elevator-gate lock, Automatic. E. F. Joyce. No. 935,607; Sept. 28; Sp. p. 5310; Gaz. vol. 146; p. 931.  
 Elevator-gate operating means. C. F. W. Ludemann. No. 929,611; July 27; Sp. p. 6011; Gaz. vol. 144; p. 1052.  
 Elevator-gate-operating mechanism. G. H. Johnson. No. 923,847; June 8; Sp. p. 1687; Gaz. vol. 143; p. 280.  
 Elevator-guide-rail oiler. E. I. Pearson. No. 915,794; Mar. 23; Sp. p. 4422; Gaz. vol. 140; p. 785.  
 Elevator-hatchway, Flush. H. Rowntree. No. 916,607; Mar. 30; Sp. p. 6001; Gaz. vol. 140; p. 1076.  
 Elevator-indicator. J. D. Griffen. No. 911,303; Feb. 2; Sp. p. 554; Gaz. vol. 139; p. 95.  
 Elevator-leg drive. S. F. Evans. No. 915,947; Mar. 23; Sp. p. 4703; Gaz. vol. 140; p. 835.  
 Elevator locking device. A. G. Rose, Jr. No. 911,765; Feb. 9; Sp. p. 1462; Gaz. vol. 139; p. 272.  
 Elevator locking mechanism. G. F. Steedman. No. 938,520; Nov. 2; Sp. p. 178; Gaz. vol. 148; p. 25.  
 Elevator mechanism, Safety. H. O. Barnes. No. 931,175; Aug. 17; Sp. p. 3274; Gaz. vol. 145; p. 571.  
 Elevator or mine cages, Safety device for. G. S. Burgan. No. 922,452; May 25; Sp. p. 4844; Gaz. vol. 142; p. 865.  
 Elevator position-indicator. R. A. Griswold and J. Zang. No. 929,211; July 27; Sp. p. 5192; Gaz. vol. 144; p. 921.  
 Elevator safety appliance. T. Rowley. No. 912,173; Feb. 9; Sp. p. 2338; Gaz. vol. 139; p. 404.  
 Elevator safety appliance. H. Píron and W. Merkel. No. 923,574; June 1; Sp. p. 1026; Gaz. vol. 143; p. 158.  
 Elevator safety appliance. S. Bisceglia. No. 932,102; Aug. 24; Sp. p. 5273; Gaz. vol. 145; p. 399.  
 Elevator safety appliance. J. T. Albert. No. 936,285; Oct. 12; Sp. p. 1407; Gaz. vol. 147; p. 244.  
 Elevator safety appliance. E. Troike. No. 943,850; Dec. 21; Sp. p. 3909; Gaz. vol. 149; p. 680.  
 Elevator safety appliance, Electric-. C. S. Gilbert. No. 936,118; Oct. 5; Sp. p. 1084; Gaz. vol. 147; p. 165.  
 Elevator safety attachment. J. E. Barber. No. 923,105; May 25; Sp. p. 6204; Gaz. vol. 142; p. 1075.  
 Elevator safety attachment, Mine-. M. E. Jolliffe and J. H. Cowan. No. 934,816; Sept. 21; Sp. p. 3699; Gaz. vol. 146; p. 643.  
 Elevator safety-brake, Automatic. L. Givulinovich. No. 935,200; Sept. 28; Sp. p. 4478; Gaz. vol. 146; p. 797.  
 Elevator safety device. C. Paradis. No. 909,322; Jan. 12; Sp. p. 1819; Gaz. vol. 138; p. 326.  
 Elevator safety device. H. Watson. No. 910,247; Jan. 19; Sp. p. 3696; Gaz. vol. 138; p. 670.  
 Elevator safety device. M. D. Vanderheyden. No. 911,631; Feb. 9; Sp. p. 1202; Gaz. vol. 139; p. 228.  
 Elevator safety device. W. P. Groom. No. 912,560; Feb. 16; Sp. p. 3183; Gaz. vol. 139; p. 571.  
 Elevator safety device. A. Linne Meyer. No. 918,755; Apr. 20; Sp. p. 3730; Gaz. vol. 141; p. 662.  
 Elevator safety device. J. Rikonen. No. 918,917; Apr. 20; Sp. p. 4084; Gaz. vol. 141; p. 716.  
 Elevator safety device. F. H. Costello. No. 920,437; May 4; Sp. p. 706; Gaz. vol. 142; p. 112.  
 Elevator safety device. H. Martineau. No. 923,607; May 25; Sp. p. 5172; Gaz. vol. 142; p. 915.  
 Elevator safety device. F. Bannon. No. 925,074; June 15; Sp. p. 4227; Gaz. vol. 143; p. 720.  
 Elevator safety device. J. Cloos. No. 925,426; June 15; Sp. p. 4877; Gaz. vol. 143; p. 834.  
 Elevator safety device. E. E. Moulton. No. 931,211; Aug. 17; Sp. p. 3358; Gaz. vol. 145; p. 583.  
 Elevator safety device. A. W. Ackerman. No. 934,645; Sept. 21; Sp. p. 3371; Gaz. vol. 146; p. 587.  
 Elevator safety device. J. A. Miller. No. 942,968; Dec. 14; Sp. p. 2013; Gaz. vol. 149; p. 349.  
 Elevator safety device. A. Kampfe. No. 943,939; Dec. 21; Sp. p. 4103; Gaz. vol. 149; p. 711.  
 Elevator safety device. Z. T. Dansey. No. 944,076; Dec. 21; Sp. p. 4393; Gaz. vol. 149; p. 757.  
 Elevator safety device, Automatic. J. T. Dempsey. No. 940,782; Nov. 23; Sp. p. 5222; Gaz. vol. 148; p. 886.  
 Elevator safety device, Mine-. J. K. Williams. No. 927,440; July 6; Sp. p. 1493; Gaz. vol. 144; p. 247.  
 Elevator safety-gate mechanism. J. Cunningham. No. 943,524; Dec. 14; Sp. p. 3200; Gaz. vol. 149; p. 538.  
 Elevator safety-lock. E. J. Brown. No. 920,820; May 4; Sp. p. 1475; Gaz. vol. 142; p. 238.  
 Elevator safety mechanism. J. A. Miller. No. 921,432; May 11; Sp. p. 2756; Gaz. vol. 142; p. 474.  
 Elevator safety mechanism, Gravity speed-governor for. J. Cunningham. No. 943,523; Dec. 14; Sp. p. 3198; Gaz. vol. 149; p. 538.  
 Elevator-shafts, False rail for. M. Brown. No. 935,736; Oct. 5; Sp. p. 236; Gaz. vol. 147; p. 38.  
 Elevator-signal. B. E. Fanning. No. 943,924; Dec. 21; Sp. p. 4072; Gaz. vol. 149; p. 706.  
 Elevator signal system. J. F. Baker and A. C. Moore. No. 931,835; Aug. 24; Sp. p. 4675; Gaz. vol. 145; p. 810.  
 Elevator systems, Indicator for automatic. A. H. Buckelew. No. 922,849; May 25; Sp. p. 5670; Gaz. vol. 142; p. 994.  
 Elevators and other movable objects and bodies, Appliance for. A. Lungen. No. 909,433; Jan. 12; Sp. p. 2024; Gaz. vol. 138; p. 360.  
 Elevators, Automatic stopping connection for hydraulic. T. Larsson. No. 924,798; June 15; Sp. p. 3663; Gaz. vol. 143; p. 628.  
 Elevators, Grain-spout for portable. G. W. and C. D. Baier. No. 943,214; Dec. 14; Sp. p. 2542; Gaz. vol. 149; p. 431.  
 Elevators, Power transmission for traction-. A. Sundh. No. 921,634; May 11; Sp. p. 3169; Gaz. vol. 142; p. 542.  
 Ellipsograph. N. B. H. Sundman. No. 918,218; Apr. 13; Sp. p. 2557; Gaz. vol. 141; p. 456.  
 Ellipsograph. C. P. Brickey. No. 922,560; May 25; Sp. p. 5077; Gaz. vol. 142; p. 900.  
 Ellipsograph. C. E. Dexter. No. 932,768; Aug. 31; Sp. p. 6654; Gaz. vol. 145; p. 1144.  
 Ellipsograph. J. P. Kunz, Jr. No. 944,562; Dec. 28; Sp. p. 5470; Gaz. vol. 149; p. 949.  
 Elliptic spring. H. Jeffrey. No. 941,621; Nov. 30; Sp. p. 6781; Gaz. vol. 148; p. 1149.  
 Embalming and burial casket. C. L. Barnes. No. 915,928; Mar. 23; Sp. p. 4668; Gaz. vol. 140; p. 828.  
 Embalming apparatus. J. E. Coppola. No. 935,839; Oct. 5; Sp. p. 509; Gaz. vol. 147; p. 73.  
 Embalming instrument. C. A. Genung. No. 918,437; Apr. 13; Sp. p. 2990; Gaz. vol. 141; p. 526.  
 Embalming instrument. T. F. Riley. No. 943,464; Dec. 14; Sp. p. 3072; Gaz. vol. 149; p. 517.  
 Embalming-table. G. F. Honold. No. 943,679; Dec. 21; Sp. p. 3562; Gaz. vol. 149; p. 620.  
 Embankment. A. L. Hartnagel. No. 918,046; Apr. 13; Sp. p. 2209; Gaz. vol. 141; p. 397.  
 Emblem or monogram mounting. G. A. Schlechter. No. 921,566; May 11; Sp. p. 3013; Gaz. vol. 142; p. 517.  
 Embossing and printing press. C. E. Brooks. No. 924,597; June 8; Sp. p. 3217; Gaz. vol. 143; p. 526.  
 Embossing and printing presses, Winding mechanism for. C. E. Brooks. No. 926,715; June 29; Sp. p. 7524; Gaz. vol. 143; p. 1324.



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- Embossing and printing, Simultaneously. G. H. Marsh. No. 936,335; Oct. 12; Sp. p. 1511; Gaz. vol. 147; p. 261.
- Embossing appliance. L. H. Orr. No. 941,532; Nov. 30; Sp. p. 6801; Gaz. vol. 148; p. 1152.
- Embossing die, Interchangeable letter-. M. Ginsburg. No. 921,974; May 18; Sp. p. 3884; Gaz. vol. 142; p. 680.
- Embossing-machine. A. E. Muth. No. 921,438; May 11; Sp. p. 2774; Gaz. vol. 142; p. 476.
- Embroidering-machine. J. Brunnschweiler. No. 939,471; Nov. 9; Sp. p. 2284; Gaz. vol. 148; p. 378.
- Embroidering-machine. R. Zahn. No. 941,123; Nov. 23; Sp. p. 5915; Gaz. vol. 148; p. 995.
- Embroidering-machine fabric-roller. A. Saurer. No. 909,826; Jan. 12; Sp. p. 2799; Gaz. vol. 138; p. 493.
- Embroidering-machine jacquard mechanism. J. A. Groebli. No. 911,234; Feb. 2; Sp. p. 421; Gaz. vol. 139; p. 73.
- Embroidering-machine stop mechanism. J. A. Groebli. No. 911,235; Feb. 2; Sp. p. 424; Gaz. vol. 139; p. 73.
- Embroidering-machines, Tension device for the thread-delivery rollers in. R. Zahn. No. 920,233; May 4; Sp. p. 287; Gaz. vol. 142; p. 46.
- Embroidering, Method of. R. Klemm and M. Rorarius. No. 924,795; June 15; Sp. p. 3660; Gaz. vol. 143; p. 627.
- Embroidery-frame. S. W. Gibbs. No. 929,583; July 27; Sp. p. 5929; Gaz. vol. 144; p. 1042.
- Embroidery-hoop. S. W. Gibbs. No. 928,598; July 20; Sp. p. 3956; Gaz. vol. 144; p. 690.
- Embroidery-hoop. H. E. Fife. No. 935,841; Oct. 5; Sp. p. 511; Gaz. vol. 147; p. 74.
- Embroidery-machine. C. Georges. No. 921,825; May 18; Sp. p. 3576; Gaz. vol. 142; p. 633.
- Embroidery-machines, Perforating or pricking apparatus for. C. Moriggl. No. 938,884; Nov. 2; Sp. p. 942; Gaz. vol. 148; p. 149.
- Embroidery-needle, Machine. C. F. Mack. No. 914,664; Mar. 9; Sp. p. 2107; Gaz. vol. 140; p. 358.
- Embroidery punching-tool. M. N. Jarvis. No. 938,384; Oct. 26; Sp. p. 5856; Gaz. vol. 147; p. 994.
- Embroidery-stiletto. C. M. Haynes. No. 917,295; Apr. 6; Sp. p. 696; Gaz. vol. 141; p. 119.
- Embroidery, tucking, and similar material, Stripper or cutter for. L. T. Conrow. No. 944,019; Dec. 21; Sp. p. 4282; Gaz. vol. 149; p. 737.
- Emergency-brake. J. Hauser. No. 917,598; Apr. 6; Sp. p. 1240; Gaz. vol. 141; p. 218.
- Emergency-brake. W. D. Payne. No. 925,020; June 15; Sp. p. 4127; Gaz. vol. 143; p. 702.
- Emergency-brake. W. F. Norton and H. N. Reid. No. 941,335; Nov. 23; Sp. p. 6357; Gaz. vol. 148; p. 1064.
- Emergency-brake, Duplex-pressure. T. A. Hedendahl. No. 928,970; July 27; Sp. p. 4691; Gaz. vol. 144; p. 841.
- Emergency-coupling. R. A. Terheun. No. 915,904; Mar. 23; Sp. p. 4626; Gaz. vol. 140; p. 821.
- Emergency-lock. L. R. Hopton. No. 908,864; Jan. 5; Sp. p. 898; Gaz. vol. 138; p. 142.
- Emery-wheel dresser. F. Curtin. No. 930,535; Aug. 10; Sp. p. 1882; Gaz. vol. 145; p. 332.
- Emulsion and producing the same. J. Stockhausen. No. 931,520; Aug. 17; Sp. p. 3999; Gaz. vol. 145; p. 688.
- Emulsion, Producing a mineral-oil. S. Knoop. No. 941,785; Nov. 30; Sp. p. 7340; Gaz. vol. 148; p. 1237.
- End-gate. C. S. Wright. No. 925,739; June 22; Sp. p. 5541; Gaz. vol. 143; p. 966.
- End-gate. C. Schallau. No. 935,168; Sept. 28; Sp. p. 4412; Gaz. vol. 146; p. 787.
- End-gate. J. H. Harvey. No. 935,498; Sept. 28; Sp. p. 5056; Gaz. vol. 146; p. 893.
- End-gate. O. B. Reynolds. No. 935,819; Oct. 5; Sp. p. 473; Gaz. vol. 147; p. 67.
- End-gate and step, Combined. C. J. Plan and W. H. Dorland. No. 932,320; Aug. 24; Sp. p. 5698; Gaz. vol. 145; p. 972.
- End-gate fastener. A. F. Williams. No. 930,585; Aug. 10; Sp. p. 1980; Gaz. vol. 145; p. 348.
- End-gate fastener. W. W. Meyer. No. 933,380; Sept. 7; Sp. p. 795; Gaz. vol. 146; p. 123.
- End-gate fastener. T. M. Dice. No. 944,544; Dec. 28; Sp. p. 5425; Gaz. vol. 149; p. 943.
- End-gate for wagons. M. O. Parker. No. 930,881; Aug. 10; Sp. p. 2606; Gaz. vol. 145; p. 445.
- End-gate, Wagon. B. M. Wilhite. No. 933,514; Sept. 7; Sp. p. 1147; Gaz. vol. 146; p. 165.
- End-matcher. W. S. Sherman. No. 930,421; Aug. 10; Sp. p. 1607; Gaz. vol. 145; p. 291.
- Endless carrier. F. A. Emerick. No. 940,793; Nov. 23; Sp. p. 5223; Gaz. vol. 148; p. 886.
- Endoscope. R. H. Wappler. No. 922,985; May 25; Sp. p. 5951; Gaz. vol. 142; p. 1038.
- Endurance-testing machine. H. Souther. No. 926,513; June 29; Sp. p. 7120; Gaz. vol. 143; p. 1257.
- Engine: See Air-engine; Atmospheric engine; Automobile engine; Beating-engine; Blowing-engine; Caloric engine; Carding-engine; Combustion-engine; Compound gasoline engine; Compressed-air engine; Crankless engine; Dental engine; Drilling-engine; Elastic-fluid engine; Electric engine; Explosion-engine; Explosive engine; Fire-engine; Fluid-pressure engine; Gas-engine; Gas turbine engine; Gasoline engine; Hoisting-engine; Hot-air engine; Hydraulic-piston engine; Hydrocarbon engine; Internal-combustion engine; Internal-combustion heat-engine; Internal-combustion rotary engine; Liquid-fuel combustion engine; Locomotive engine; Logging-engine; Logging and hoisting engine; Motor-engine; Oil or gas engine; Percussion engine; Pneumatic engine; Pulp-refining engine; Pumping-engine; Reciprocating engine; Road-engine; Rock-drilling engine; Rotary engine; Rotary combustion engine; Rotary explosion engine; Rotary explosive engine; Rotary gas or oil engine; Rotary gasoline engine; Rotary internal-combustion engine; Rotary reversible engine; Rotary steam engine; Steam engine; Traction engine; Turbine engine; Wind engine.
- Engine. F. D. Howe. No. 908,569; Jan. 5; Sp. p. 286; Gaz. vol. 138; p. 48.
- Engine. F. D. Howe. No. 908,570; Jan. 5; Sp. p. 287; Gaz. vol. 138; p. 48.
- Engine. R. J. A. and J. N. Prince. No. 908,886; Jan. 5; Sp. p. 943; Gaz. vol. 138; p. 150.
- Engine. C. I. Henrikson. No. 911,590; Feb. 9; Sp. p. 1103; Gaz. vol. 139; p. 241.
- Engine. W. H. McLeod. No. 911,670; Feb. 9; Sp. p. 1290; Gaz. vol. 139; p. 215.
- Engine. J. H. Smith. No. 914,760; Mar. 9; Sp. p. 2334; Gaz. vol. 140; p. 391.
- Engine. L. H. Mareil. No. 920,165; May 4; Sp. p. 139; Gaz. vol. 142; p. 22.
- Engine. E. Franklin. No. 923,505; June 1; Sp. p. 877; Gaz. vol. 143; p. 133.
- Engine. W. J. O'Keefe. No. 923,569; June 1; Sp. p. 1019; Gaz. vol. 143; p. 156.
- Engine. H. E. B. Blomgren. No. 926,540; June 29; Sp. p. 7165; Gaz. vol. 143; p. 1266.
- Engine. C. Tuckfield. No. 927,297; July 6; Sp. p. 1215; Gaz. vol. 144; p. 199.
- Engine. T. R. Thurber. No. 928,715; July 20; Sp. p. 4178; Gaz. vol. 144; p. 728.
- Engine. F. G. Freese. No. 929,575; July 27; Sp. p. 5917; Gaz. vol. 144; p. 1040.
- Engine. L. W. Noyes. No. 929,695; Aug. 3; Sp. p. 109; Gaz. vol. 145; p. 21.
- Engine adjustable cut-off gear, Steam-. H. L. Perrine. No. 915,213; Mar. 16; Sp. p. 3236; Gaz. vol. 140; p. 566.
- Engine adjustable hitching-tongue, Traction-. E. L. Allen. No. 916,824; Mar. 30; Sp. p. 6389; Gaz. vol. 140; p. 1142.
- Engine admission-valve, Gas-. G. B. Petsche. No. 909,214; Jan. 12; Sp. p. 1612; Gaz. vol. 138; p. 290.
- Engine air-heater, Gasoline-. C. B. Chambers. No. 916,999; Apr. 6; Sp. p. 70; Gaz. vol. 141; p. 16.
- Engine-aliner. J. O. Gibbins. No. 914,370; Mar. 2; Sp. p. 1533; Gaz. vol. 140; p. 237.
- Engine and volatile-fluid-engine plant, Gas-. J. Robson. No. 913,166; Feb. 23; Sp. p. 4419; Gaz. vol. 139; p. 797.
- Engine bed for dories, Portable gasoline-. M. D. Thompson. No. 921,913; May 18; Sp. p. 3751; Gaz. vol. 142; p. 660.
- Engine bed-plate, Beater-. R. A. North. No. 909,653; Jan. 12; Sp. p. 2460; Gaz. vol. 138; p. 436.
- Engine brake mechanism, Traction-. J. and W. Minnaugh. No. 911,148; Feb. 2; Sp. p. 253; Gaz. vol. 139; p. 44.
- Engine carburetor, Explosive-. L. P. Fosnot. No. 908,764; Jan. 5; Sp. p. 710; Gaz. vol. 138; p. 110.
- Engine carburetor, Explosive-. L. P. Fosnot. No. 909,075; Jan. 5; Sp. p. 1313; Gaz. vol. 138; p. 211.
- Engine carburetor, Explosive-. D. J. Cartwright. No. 916,103; Mar. 23; Sp. p. 4996; Gaz. vol. 140; p. 885.
- Engine carburetor, Hydrocarbon-. G. Breeze. No. 913,354; Feb. 23; Sp. p. 4803; Gaz. vol. 139; p. 861.
- Engine carburetor, Internal-combustion-. J. A. Prestwich. No. 910,018; Jan. 19; Sp. p. 3196; Gaz. vol. 138; p. 590.
- Engine circuit-controller, Explosion-. R. Varley. No. 915,388; Mar. 16; Sp. p. 3575; Gaz. vol. 140; p. 622.
- Engine combustion-chamber, Gas-. O. Kraus. No. 943,082; Dec. 14; Sp. p. 2287; Gaz. vol. 149; p. 388.
- Engine combustion-head, Hydrocarbon-. F. L. Nichols. No. 910,220; Jan. 19; Sp. p. 3619; Gaz. vol. 138; p. 658.
- Engine construction, Gas or gasoline. C. Herreshoff. No. 940,650; Nov. 16; Sp. p. 4882; Gaz. vol. 148; p. 812.
- Engine controller, Gas-. C. L. McHenry. No. 932,804; Aug. 31; Sp. p. 6735; Gaz. vol. 145; p. 1155.
- Engine cooling device, Explosive-. G. Braun. No. 914,109; Mar. 2; Sp. p. 976; Gaz. vol. 140; p. 153.
- Engine-cooling fan, Explosion-. E. V. Croston. No. 911,382; Feb. 2; Sp. p. 699; Gaz. vol. 139; p. 120.
- Engine cooling system, Explosion-. E. E. Sweet. No. 915,506; Mar. 16; Sp. p. 3802; Gaz. vol. 140; p. 661.
- Engine cooling system, Internal-combustion-. C. C. Worthington. No. 917,232; Apr. 6; Sp. p. 552; Gaz. vol. 141; p. 96.
- Engine coupling, Traction-. W. J. Stenger. No. 911,456; Feb. 2; Sp. p. 825; Gaz. vol. 139; p. 145.
- Engine crank-box Gasoline-. G. L. Lyon. No. 911,891; Feb. 9; Sp. p. 1692; Gaz. vol. 139; p. 313.
- Engine crank-case. J. P. Landgraf. No. 934,675; Sept. 21; Sp. p. 3423; Gaz. vol. 146; p. 597.
- Engine crank-shaft connection. A. J. Gifford. No. 931,750; Aug. 24; Sp. p. 4506; Gaz. vol. 145; p. 784.
- Engine-cylinder cooling device. S. W. Zent. No. 927,702; July 13; Sp. p. 2085; Gaz. vol. 144; p. 362.
- Engine-cylinder lubricator. J. A. Daubenspeck. No. 928,906; July 20; Sp. p. 4565; Gaz. vol. 144; p. 795.
- Engine cylinders, System for air-cooling gas-. G. E. Martin and A. F. Swanson. No. 919,612; Apr. 27; Sp. p. 5705; Gaz. vol. 141; p. 981.
- Engine electric-circuit controller, Internal-combustion-. C. Cuno. No. 910,913; Jan. 26; Sp. p. 5065; Gaz. vol. 138; p. 912.
- Engine electric igniter, Gas-. J. A. Charter. No. 918,123; Oct. 26; Sp. p. 5280; Gaz. vol. 147; p. 904.
- Engine electric ignition apparatus, Internal-combustion-. C. H. Thordarson. No. 914,532; Mar. 9; Sp. p. 1849; Gaz. vol. 140; p. 315.
- Engine electric vaporizer, Internal-combustion-. H. Hertzberg and A. A. Low. No. 909,896; Jan. 19; Sp. p. 2950; Gaz. vol. 138; p. 548.
- Engine electrical interrupter, Explosive-. G. Honold. No. 931,065; Aug. 17; Sp. p. 3046; Gaz. vol. 145; p. 533.
- Engine electrical vaporizer, Internal-combustion-. H. Hertzberg and A. A. Low. No. 909,899; Jan. 19; Sp. p. 2963; Gaz. vol. 138; p. 550.



*Alphabetical list of inventions—Continued.*

- Engine electrically-heated starting-vaporizer, Internal-combustion-. H. Hertzberg and A. A. Low. No. 909,900; Jan. 19; Sp. p. 2967; Gaz. vol. 138; p. 550.
- Engine electrically-operated starting-vaporizer, Combustion-. A. A. Low. No. 909,917; Jan. 19; Sp. p. 3000; Gaz. vol. 138; p. 555.
- Engine electromagnetic igniter, Explosion-. G. Honold. No. 931,066; Aug. 17; Sp. p. 3048; Gaz. vol. 145; p. 534.
- Engine explosive mixture, Combustion-. P. Winand. No. 914,624; Mar. 9; Sp. p. 2033; Gaz. vol. 140; p. 346.
- Engine external electrical vaporizer, Combustion-. H. Hertzberg. No. 909,897; Jan. 19; Sp. p. 2955; Gaz. vol. 138; p. 549.
- Engine frame, Internal-combustion-. L. W. Noyes. No. 936,558; Oct. 12; Sp. p. 2029; Gaz. vol. 147; p. 334.
- Engine fuel-injecting nozzle, Internal-combustion-. K. J. E. Hesselman. No. 910,535; Jan. 26; Sp. p. 4306; Gaz. vol. 138; p. 790.
- Engine gearing, Traction-. J. B. Bartholomew. No. 929,183; July 27; Sp. p. 5135; Gaz. vol. 144; p. 912.
- Engine governor, Marine-. L. E. L. Themke and E. La Force. No. 916,627; Mar. 30; Sp. p. 6044; Gaz. vol. 140; p. 1083.
- Engine-governor speed-regulating device. J. E. Kimble. No. 912,689; Feb. 16; Sp. p. 3451; Gaz. vol. 139; p. 616.
- Engine guide, Traction-. J. M. and M. Rohan. No. 921,004; May 11; Sp. p. 1852; Gaz. vol. 142; p. 328.
- Engine harvester attachment, Traction-. R. M. Will. No. 914,097; Mar. 2; Sp. p. 951; Gaz. vol. 140; p. 149.
- Engine-houses, Smoke-jack for railway. J. J. Evans. No. 920,041; Apr. 27; Sp. p. 6595; Gaz. vol. 141; p. 1122.
- Engine igniter, Gasolene-. D. F. MacCarthy and H. M. Darling. No. 926,202; June 29; Sp. p. 6537; Gaz. vol. 143; p. 1156.
- Engine igniting apparatus, Explosive-. B. F. Stewart. No. 940,374; Nov. 16; Sp. p. 4290; Gaz. vol. 143; p. 721.
- Engine ignition device, Explosive-. A. F. Clarke. No. 939,805; Nov. 9; Sp. p. 2996; Gaz. vol. 148; p. 493.
- Engine ignition device, Gas-. A. J. Gifford, J. J. Burns, and B. S. T. Bishop. No. 933,246; Sept. 7; Sp. p. 500; Gaz. vol. 146; p. 76.
- Engine ignition system, Explosion-. R. Varley. No. 915,389; Mar. 16; Sp. p. 3578; Gaz. vol. 140; p. 623.
- Engine ignition system, Explosion-. R. Varley. No. 915,390; Mar. 16; Sp. p. 3580; Gaz. vol. 140; p. 623.
- Engine ignition system, Explosion-. R. Varley. No. 915,391; Mar. 16; Sp. p. 3583; Gaz. vol. 140; p. 623.
- Engine ignition system, Explosion-. R. Varley. No. 915,639; Mar. 16; Sp. p. 4096; Gaz. vol. 140; p. 707.
- Engine ignition system, Explosion-. P. R. Werner. No. 940,376; Nov. 16; Sp. p. 4295; Gaz. vol. 143; p. 721.
- Engine ignition system, Internal-combustion-. M. B. Crist. No. 922,673; May 25; Sp. p. 5302; Gaz. vol. 142; p. 937.
- Engine ignition system, Internal-combustion-. C. B. Askew. No. 941,124; Nov. 23; Sp. p. 5917; Gaz. vol. 148; p. 995.
- Engine-indicator. W. E. Jerauld. No. 908,867; Jan. 5; Sp. p. 903; Gaz. vol. 138; p. 143.
- Engine, &c., indicator, Steam-. B. Hopkinson. No. 912,680; Feb. 16; Sp. p. 3431; Gaz. vol. 139; p. 612.
- Engine-indicators, Reducing-motion for. S. T. Danks. No. 923,952; June 8; Sp. p. 1877; Gaz. vol. 143; p. 313.
- Engine internal electric starting-vaporizer, Combustion-. H. Hertzberg, A. A. Low, and A. Wassmann. No. 909,898; Jan. 19; Sp. p. 2958; Gaz. vol. 138; p. 549.
- Engine-lubricating device. A. Krebs. No. 927,552; July 13; Sp. p. 1739; Gaz. vol. 144; p. 310.
- Engine match-starter, Explosive-. W. W. Bonson and H. L. Clarke. No. 931,726; Aug. 24; Sp. p. 4455; Gaz. vol. 145; p. 776.
- Engine muffler, Explosive-. G. A. Jackson. No. 927,246; July 6; Sp. p. 1127; Gaz. vol. 144; p. 183.
- Engine muffler, Explosive-. D. B. Smith. No. 932,723; Aug. 31; Sp. p. 6556; Gaz. vol. 145; p. 1129.
- Engine multiple-bar construction, Refining-. S. R. Wagg. No. 930,904; Aug. 10; Sp. p. 2643; Gaz. vol. 145; p. 453.
- Engine operating means, Explosive-. C. G. Dean. No. 910,181; Jan. 19; Sp. p. 3532; Gaz. vol. 138; p. 643.
- Engine or motor. E. B. Parkhurst. No. 935,809; Oct. 5; Sp. p. 452; Gaz. vol. 147; p. 64.
- Engine packing, Rotary-. H. M. Hulings. No. 912,963; Feb. 16; Sp. p. 4006; Gaz. vol. 139; p. 703.
- Engine piston-head. A. Starke. No. 941,737; Nov. 30; Sp. p. 7238; Gaz. vol. 148; p. 1221.
- Engine plant, Heat-. S. Lake. No. 933,080; Sept. 7; Sp. p. 86; Gaz. vol. 146; p. 15.
- Engine primer, Gasolene-. A. H. Linaveaver. No. 942,785; Dec. 7; Sp. p. 1553; Gaz. vol. 149; p. 255.
- Engine priming-cup, Gasolene-. C. H. Wisner. No. 915,399; Mar. 16; Sp. p. 3596; Gaz. vol. 140; p. 626.
- Engine regulator, Internal-combustion-. M. J. Wohl and H. Hertzberg. No. 943,726; Dec. 21; Sp. p. 3664; Gaz. vol. 149; p. 636.
- Engine reversing-gear. A. Rummion. No. 912,893; Feb. 16; Sp. p. 3867; Gaz. vol. 139; p. 682.
- Engine reversing mechanism. B. Breck. No. 942,998; Dec. 14; Sp. p. 2090; Gaz. vol. 149; p. 359.
- Engine reversing mechanism, Traction-. J. D. Musser. No. 938,164; Oct. 26; Sp. p. 5375; Gaz. vol. 147; p. 917.
- Engine serial igniter, Gas-. H. A. Long. No. 917,780; Apr. 13; Sp. p. 1645; Gaz. vol. 141; p. 305.
- Engine spark-ignition device, Explosive-. J. A. Whitton. No. 924,863; June 15; Sp. p. 3806; Gaz. vol. 143; p. 650.
- Engine spark-timer, Internal-combustion-. H. Schaake and J. T. Cowie. No. 915,891; Mar. 23; Sp. p. 4601; Gaz. vol. 140; p. 816.
- Engine spark mechanism. H. M. Cramer. No. 918,286; Apr. 13; Sp. p. 2696; Gaz. vol. 141; p. 477.
- Engine spark mechanism, Internal-combustion-. H. Schaake and J. T. Cowie. No. 934,842; Sept. 21; Sp. p. 3752; Gaz. vol. 146; p. 652.
- Engine sparking device, Gas or oil. W. M. Stempel. No. 943,324; Dec. 14; Sp. p. 2770; Gaz. vol. 149; p. 468.
- Engine sparking mechanism, Explosive-. A. Winton. No. 915,644; Mar. 16; Sp. p. 4105; Gaz. vol. 140; p. 709.
- Engine sparking mechanism, Explosive-. G. Germani. No. 927,346; July 6; Sp. p. 1297; Gaz. vol. 144; p. 214.
- Engine sparking mechanism, Gas-. E. S. Bowen. No. 930,345; Aug. 10; Sp. p. 1457; Gaz. vol. 145; p. 266.
- Engine speed-limiting device, Electrically-igniting explosive-. F. S. Perrin. No. 910,414; Jan. 19; Sp. p. 4054; Gaz. vol. 138; p. 726.
- Engine-starter. F. A. Rogers. No. 914,308; Mar. 2; Sp. p. 1386; Gaz. vol. 140; p. 215.
- Engine-starter. D. C. Wilgus. No. 921,933; May 18; Sp. p. 3787; Gaz. vol. 142; p. 666.
- Engine-starter. U. M. Seyler. No. 934,576; Sept. 21; Sp. p. 3222; Gaz. vol. 146; p. 562.
- Engine-starter. L. Burnham. No. 936,700; Oct. 12; Sp. p. 2318; Gaz. vol. 147; p. 385.
- Engine starter-crank, Explosive-. F. W. Coen. No. 908,841; Jan. 5; Sp. p. 854; Gaz. vol. 138; p. 134.
- Engine starter, Gas-. G. Buress. No. 919,818; Apr. 27; Sp. p. 6151; Gaz. vol. 141; p. 1049.
- Engine starter, Gas-. G. Buress. No. 944,315; Dec. 28; Sp. p. 4893; Gaz. vol. 149; p. 862.
- Engine-starting apparatus, Explosive-. L. M. Booth. No. 909,140; Jan. 12; Sp. p. 1472; Gaz. vol. 138; p. 267.
- Engine starting-crank, Internal-combustion-. J. A. Lawson. No. 938,254; Oct. 26; Sp. p. 5558; Gaz. vol. 147; p. 950.
- Engine-starting device. S. Dillon and J. Richardson. No. 918,976; Apr. 20; Sp. p. 4208; Gaz. vol. 141; p. 735.
- Engine starting device, Automobile and other. A. G. Willard. No. 932,735; Aug. 31; Sp. p. 6580; Gaz. vol. 145; p. 1134.
- Engine starting device, Explosion-. H. C. Bailey. No. 920,411; May 4; Sp. p. 651; Gaz. vol. 142; p. 104.
- Engine starting device, Explosive-. J. Zagora. No. 920,515; May 4; Sp. p. 855; Gaz. vol. 142; p. 138.
- Engine starting device, Explosive-. H. Wayne. No. 936,964; Oct. 12; Sp. p. 2829; Gaz. vol. 147; p. 471.
- Engine starting device, Gasolene-. J. L. White and J. B. Polo. No. 921,769; May 18; Sp. p. 3457; Gaz. vol. 142; p. 614.
- Engine starting device, Internal-combustion-. A. C. Wells. No. 916,073; Mar. 23; Sp. p. 4942; Gaz. vol. 140; p. 876.
- Engine starting device, Internal-combustion-. W. H. Rozier and S. C. Igou. No. 927,681; July 13; Sp. p. 2039; Gaz. vol. 144; p. 354.
- Engine starting device, Internal-combustion-. P. G. Caspian. No. 942,957; Dec. 14; Sp. p. 1988; Gaz. vol. 149; p. 345.
- Engine-starting jack. G. A. Bull. No. 929,828; Aug. 3; Sp. p. 422; Gaz. vol. 145; p. 70.
- Engine starting mechanism, Internal-combustion-. F. W. Teves. No. 914,615; Mar. 9; Sp. p. 2018; Gaz. vol. 140; p. 343.
- Engine starting mechanism, Internal-combustion-. E. C. Gentzler. No. 916,296; Mar. 23; Sp. p. 5347; Gaz. vol. 140; p. 947.
- Engine steering connection, Traction-. G. Kirkland and W. White. No. 918,865; Apr. 20; Sp. p. 3970; Gaz. vol. 141; p. 698.
- Engine steering device, Traction-. A. Harrold. No. 914,951; Mar. 9; Sp. p. 2694; Gaz. vol. 140; p. 452.
- Engine steering-gear, Traction-. D. H. Randall and C. C. Whitcomb. No. 918,368; Apr. 13; Sp. p. 2847; Gaz. vol. 141; p. 504.
- Engine steering-gear, Traction-. F. T. Flinchbaugh. No. 920,125; May 4; Sp. p. 73; Gaz. vol. 142; p. 10.
- Engine steering mechanism, Traction-. S. S. Rose. No. 918,914; Apr. 20; Sp. p. 4077; Gaz. vol. 141; p. 715.
- Engine stop device. R. S. Coleman. No. 918,507; Apr. 20; Sp. p. 3151; Gaz. vol. 141; p. 578.
- Engine timing gear mechanism, Explosive-. L. D. Hubbell. No. 921,705; May 18; Sp. p. 3323; Gaz. vol. 142; p. 591.
- Engine valve-gear. C. F. Prescott. No. 909,665; Jan. 12; Sp. p. 2483; Gaz. vol. 138; p. 441.
- Engine valve-gear and governing mechanism, Explosion-. N. T. Harrington. No. 917,941; Apr. 13; Sp. p. 1976; Gaz. vol. 141; p. 359.
- Engine valve-gear, Steam-. A. Hossfeld. No. 909,302; Jan. 12; Sp. p. 1776; Gaz. vol. 138; p. 319.
- Engine valve-gearing, Explosion-. R. Hennig. No. 910,680; Jan. 26; Sp. p. 4608; Gaz. vol. 138; p. 839.
- Engine valve-lifter, Explosive-. J. E. Gaylord. No. 908,556; Jan. 5; Sp. p. 261; Gaz. vol. 138; p. 44.
- Engine valve mechanism, Gas-. S. Jachimovicz. No. 911,992; Feb. 9; Sp. p. 1977; Gaz. vol. 139; p. 347.
- Engine valve-operating mechanism, Explosive-. H. Steingassner. No. 913,578; Feb. 23; Sp. p. 5287; Gaz. vol. 139; p. 936.
- Engine vaporizer, Internal-combustion-. K. J. E. Hesselman. No. 910,534; Jan. 26; Sp. p. 4304; Gaz. vol. 138; p. 790.
- Engine vaporizing apparatus, Liquid-fuel internal-combustion-. H. B. Krijthe. No. 910,693; Jan. 26; Sp. p. 4634; Gaz. vol. 138; p. 842.
- Engine wheel, Traction-. E. L. Van Dolsen. No. 914,324; Mar. 2; Sp. p. 1425; Gaz. vol. 140; p. 220.
- Engines, Adjustable crank for internal-combustion. C. J. Gottli. No. 934,164; Sept. 14; Sp. p. 2447; Gaz. vol. 146; p. 402.
- Engines, Air-heater for compressed-air. H. W. Shonnard and W. Dieter. No. 927,434; July 6; Sp. p. 1477; Gaz. vol. 144; p. 245.
- Engines and the like, Apparatus for removing dust and foul gases from caridngs. H. Smethurst. No. 928,153; July 13; Sp. p. 2993; Gaz. vol. 144; p. 512.
- Engines and the like, Coupling draw-bar pocket for locomotive-. C. T. Westlake. No. 929,062; July 27; Sp. p. 4886; Gaz. vol. 144; p. 872.
- Engines, Apparatus for producing uniform fluid-pressure for. E. Engebretson. No. 925,627; June 22; Sp. p. 5294; Gaz. vol. 143; p. 930.
- Engines, Beating-roll for refining-. E. A. Jones. No. 936,540; Oct. 12; Sp. p. 1903; Gaz. vol. 147; p. 328.
- Engines, Causing self-ignition in explosive-. A. O. Haney. No. 940,872; Nov. 23; Sp. p. 5379; Gaz. vol. 148; p. 911.



*Alphabetical list of inventions—Continued.*

- Engines, Charge-forming device for gas-. J. A. and J. Charter. No. 928,939; July 27; Sp. p. 4630; Gaz. vol. 144; p. 831.
- Engines, Combined charging and feeding device for gasoline-. L. W. Witry. No. 935,718; Oct. 5; Sp. p. 201; Gaz. vol. 147; p. 32.
- Engines, Combustion device for doing away with exhaust-gases in combustion-. K. and E. Lehmann. No. 939,844; Nov. 9; Sp. p. 3063; Gaz. vol. 148; p. 506.
- Engines, Controlling the exhaust from internal-combustion. T. B. Doolittle. No. 921,679; May 18; Sp. p. 3283; Gaz. vol. 142; p. 584.
- Engines, Cut-out attachment for internal-combustion. B. F. Sheibley and W. Moller. No. 922,528; May 25; Sp. p. 5006; Gaz. vol. 142; p. 889.
- Engines, Device for barring-over. C. E. Sargent. No. 935,235; Sept. 28; Sp. p. 4544; Gaz. vol. 146; p. 809.
- Engines, Drive-gearing for traction-. D. W. Keyes. No. 928,458; July 20; Sp. p. 3662; Gaz. vol. 144; p. 645.
- Engines, Dynamometer thermo-couple for explosion-. N. M. Hopkins. No. 935,154; Sept. 28; Sp. p. 4385; Gaz. vol. 146; p. 783.
- Engines, Electric igniter for explosive-. E. Westman. No. 922,987; May 25; Sp. p. 5953; Gaz. vol. 142; p. 1038.
- Engines, Electric igniter for explosion-. W. C. Thornhill. No. 929,262; July 27; Sp. p. 5303; Gaz. vol. 144; p. 937.
- Engines, Electric igniting device for reversible internal-combustion. C. W. Asklung. No. 923,929; June 8; Sp. p. 1838; Gaz. vol. 143; p. 30.
- Engines, Electrical ignition for internal-combustion. V. Barreto. No. 932,239; Aug. 24; Sp. p. 5545; Gaz. vol. 145; p. 944.
- Engines, Fluid-cooling means for gasoline or other. M. A. Fesler. No. 942,493; Dec. 7; Sp. p. 977; Gaz. vol. 149; p. 157.
- Engines, Fuel-feeder for internal-combustion. N. McCarty. No. 933,325; Sept. 7; Sp. p. 657; Gaz. vol. 146; p. 102.
- Engines, Fuel for internal-combustion. G. B. Selden. No. 928,803; July 20; Sp. p. 4346; Gaz. vol. 144; p. 757.
- Engines, Fuel-injection nozzle for oil-. H. Soeldner. No. 937,390; Oct. 19; Sp. p. 3736; Gaz. vol. 147; p. 640.
- Engines, Gearing for traction-. A. W. Aitken. No. 933,945; Sept. 14; Sp. p. 2000; Gaz. vol. 146; p. 329.
- Engines, Jump-spark plug for explosion-. W. W. King. No. 923,535; June 1; Sp. p. 934; Gaz. vol. 143; p. 145.
- Engines, Leveling mechanism for traction-. R. C. Gorham. No. 928,380; July 20; Sp. p. 3505; Gaz. vol. 144; p. 620.
- Engines, Means for cooling the cylinders of explosive-. D. B. Whitehill. No. 913,599; Feb. 23; Sp. p. 5326; Gaz. vol. 139; p. 943.
- Engines, Means for starting internal-combustion. W. B. West. No. 937,127; Oct. 19; Sp. p. 3162; Gaz. vol. 147; p. 556.
- Engines, Mechanism for controlling the operation of internal-combustion. W. J. McVicker. No. 927,582; July 13; Sp. p. 1798; Gaz. vol. 144; p. 321.
- Engines, Mixing attachment for internal-combustion. J. Illy. No. 933,709; Sept. 7; Sp. p. 1526; Gaz. vol. 146; p. 231.
- Engines, Muffler cut-out for explosive-. L. Raffalovich. No. 942,011; Nov. 30; Sp. p. 7801; Gaz. vol. 148; p. 1313.
- Engines, Protecting device for explosion-. J. Lengel. No. 934,680; Sept. 21; Sp. p. 3443; Gaz. vol. 146; p. 599.
- Engines, Self-starting device for gas-. W. A. Hansen. No. 929,588; July 27; Sp. p. 5938; Gaz. vol. 144; p. 1044.
- Engines, Silencer for internal-combustion. W. L. Tobey. No. 940,290; Nov. 16; Sp. p. 4081; Gaz. vol. 148; p. 692.
- Engines, Spark-plug for gas-. D. H. Coles. No. 934,427; Sept. 21; Sp. p. 2944; Gaz. vol. 146; p. 514.
- Engines, Spark-plug for internal-combustion. M. Eyquem. No. 940,448; Nov. 16; Sp. p. 4464; Gaz. vol. 148; p. 746.
- Engines, Spark-timer for internal-combustion gas-. O. L. Brainard. No. 941,556; Nov. 30; Sp. p. 6848; Gaz. vol. 148; p. 1159.
- Engines, Speed-controlling mechanism for explosive-. A. J. Miller and J. T. Metcalf. No. 936,795; Oct. 12; Sp. p. 2498; Gaz. vol. 147; p. 417.
- Engines, Timing device for explosive-. A. Lamont and L. C. Steers. No. 920,159; May 4; Sp. p. 131; Gaz. vol. 142; p. 20.
- Engines, Under-water exhaust-outlet for internal-combustion. W. L. Tobey. No. 940,291; Nov. 16; Sp. p. 4082; Gaz. vol. 148; p. 692.
- Engines, Vaporizer for internal-combustion. P. D. Johnston. No. 943,084; Dec. 21; Sp. p. 3570; Gaz. vol. 149; p. 622.
- Engineering instrument. R. V. R. Reynolds. No. 921,889; May 18; Sp. p. 3698; Gaz. vol. 142; p. 652.
- Engineering, Structure for use in hydraulic. W. V. Judson. No. 921,545; May 11; Sp. p. 2975; Gaz. vol. 142; p. 511.
- Engineer's alarm. E. McClintock. No. 914,445; Mar. 9; Sp. p. 1674; Gaz. vol. 140; p. 286.
- Engraver's block. A. Muehlmann. No. 911,667; Feb. 9; Sp. p. 1284; Gaz. vol. 139; p. 240.
- Engraving-block. F. A. Missman. No. 915,872; Mar. 23; Sp. p. 4562; Gaz. vol. 140; p. 810.
- Engraving-block-jaw attachment. A. L. Leatart. No. 921,126; May 11; Sp. p. 2106; Gaz. vol. 142; p. 371.
- Engraving-machine. V. J. Hansen. No. 912,240; Feb. 9; Sp. p. 2456; Gaz. vol. 139; p. 424.
- Engraving-machine. V. L. Ourdan. No. 929,700; Aug. 3; Sp. p. 125; Gaz. vol. 145; p. 22.
- Engraving-machine. V. Royle. No. 933,344; Sept. 7; Sp. p. 700; Gaz. vol. 146; p. 109.
- Engraving-machine. A. Rostad. No. 934,216; Sept. 14; Sp. p. 2535; Gaz. vol. 146; p. 418.
- Engraving-machine. P. J. Meyer. No. 940,179; Nov. 16; Sp. p. 3841; Gaz. vol. 148; p. 652.
- Engraving-machine, Pantograph. J. T. Rawsthorne and J. Pryke. No. 921,736; May 18; Sp. p. 3381; Gaz. vol. 142; p. 602.
- Engraving-machine, Pantograph. J. T. Rawsthorne and J. Pryke. No. 921,737; May 18; Sp. p. 3382; Gaz. vol. 142; p. 602.
- Engraving-machine, Pantograph. J. T. Rawsthorne and J. Pryke. No. 921,738; May 18; Sp. p. 3383; Gaz. vol. 142; p. 603.
- Engraving-machine, Pantograph. J. T. Rawsthorne and J. Pryke. (Reissue.) No. 12,959; July 13; Sp. p. 3176; Gaz. vol. 144; p. 542.
- Engraving-machine, Pantograph. J. T. Rawsthorne and J. Pryke. (Reissue.) No. 12,990; July 13; Sp. p. 3178; Gaz. vol. 144; p. 542.
- Engraving or duplicating machine. A. W. Roovers. No. 940,730; Nov. 23; Sp. p. 5069; Gaz. vol. 148; p. 865.
- Entrail-cleaning machine. L. Svoboda. No. 925,527; June 22; Sp. p. 5090; Gaz. vol. 143; p. 897.
- Envelop. P. M. MacKaskie. No. 908,875; Jan. 5; Sp. p. 918; Gaz. vol. 138; p. 146.
- Envelop. J. R. Ritchie. No. 910,862; Jan. 26; Sp. p. 4964; Gaz. vol. 138; p. 896.
- Envelop. F. Peterson. No. 911,263; Feb. 2; Sp. p. 482; Gaz. vol. 139; p. 82.
- Envelop. G. M. J. Ahlstrom. No. 911,800; Feb. 9; Sp. p. 1518; Gaz. vol. 139; p. 283.
- Envelop. L. Levy. No. 912,140; Feb. 9; Sp. p. 2273; Gaz. vol. 139; p. 393.
- Envelop. J. R. Huff. No. 913,387; Feb. 23; Sp. p. 4873; Gaz. vol. 139; p. 872.
- Envelop. J. Draemel. No. 913,473; Feb. 23; Sp. p. 5041; Gaz. vol. 139; p. 901.
- Envelop. J. C. Brown. No. 913,612; Feb. 23; Sp. p. 5357; Gaz. vol. 139; p. 948.
- Envelop. L. W. Simmons. No. 913,987; Mar. 2; Sp. p. 707; Gaz. vol. 140; p. 111.
- Envelop. E. Heyer. No. 914,274; Mar. 2; Sp. p. 1321; Gaz. vol. 140; p. 204.
- Envelop. G. Davis. No. 914,337; Mar. 2; Sp. p. 1446; Gaz. vol. 140; p. 225.
- Envelop. W. D. Smith. No. 914,982; Mar. 9; Sp. p. 2742; Gaz. vol. 140; p. 462.
- Envelop. N. C. Sprague. No. 915,124; Mar. 16; Sp. p. 3043; Gaz. vol. 140; p. 537.
- Envelop. S. B. Swift. No. 915,806; Mar. 23; Sp. p. 4441; Gaz. vol. 140; p. 789.
- Envelop. H. H. Rhoades and N. P. Swann. No. 916,597; Mar. 30; Sp. p. 5983; Gaz. vol. 140; p. 1074.
- Envelop. G. P. Skinner. No. 917,369; Apr. 6; Sp. p. 837; Gaz. vol. 141; p. 143.
- Envelop. E. L. and E. B. Von Eschen. No. 917,383; Apr. 6; Sp. p. 863; Gaz. vol. 141; p. 148.
- Envelop. J. Korpach. No. 917,458; Apr. 6; Sp. p. 991; Gaz. vol. 141; p. 173.
- Envelop. T. Norgell. No. 921,275; May 11; Sp. p. 2405; Gaz. vol. 142; p. 421.
- Envelop. H. F. Krüger. No. 922,600; May 25; Sp. p. 5153; Gaz. vol. 142; p. 913.
- Envelop. A. E. Harker. No. 922,891; May 25; Sp. p. 5779; Gaz. vol. 142; p. 1008.
- Envelop. B. Joachim. No. 923,182; June 1; Sp. p. 133; Gaz. vol. 143; p. 21.
- Envelop. W. H. Mullins. No. 923,873; June 8; Sp. p. 1737; Gaz. vol. 143; p. 289.
- Envelop. W. M. Smith. No. 925,048; June 15; Sp. p. 4187; Gaz. vol. 143; p. 713.
- Envelop. M. J. Shaffer. No. 926,025; June 22; Sp. p. 6144; Gaz. vol. 143; p. 1060.
- Envelop. W. E. Rickey. No. 926,607; June 29; Sp. p. 7304; Gaz. vol. 143; p. 1288.
- Envelop. J. J. Tishler. No. 926,624; June 29; Sp. p. 7334; Gaz. vol. 143; p. 1294.
- Envelop. H. W. Stuart. No. 928,407; July 20; Sp. p. 3557; Gaz. vol. 144; p. 629.
- Envelop. R. D. Townsend. No. 928,410; July 20; Sp. p. 3562; Gaz. vol. 144; p. 630.
- Envelop. D. Thomsom. No. 929,515; July 27; Sp. p. 5813; Gaz. vol. 144; p. 1021.
- Envelop. A. C. Toliver. No. 929,516; July 27; Sp. p. 5814; Gaz. vol. 144; p. 1021.
- Envelop. L. Schwartz. No. 933,589; Sept. 7; Sp. p. 1278; Gaz. vol. 146; p. 190.
- Envelop. G. S. Bauer. No. 936,077; Oct. 5; Sp. p. 1013; Gaz. vol. 147; p. 153.
- Envelop. N. J. Macdonald. No. 936,790; Oct. 12; Sp. p. 2486; Gaz. vol. 147; p. 415.
- Envelop. W. A. Lueneburg. No. 937,315; Oct. 19; Sp. p. 3564; Gaz. vol. 147; p. 616.
- Envelop. L. C. Van Riper. No. 937,490; Oct. 19; Sp. p. 3970; Gaz. vol. 147; p. 674.
- Envelop. L. R. Swett. No. 939,876; Nov. 9; Sp. p. 3132; Gaz. vol. 148; p. 517.
- Envelop. C. B. Kilby. No. 940,974; Nov. 23; Sp. p. 5585; Gaz. vol. 148; p. 945.
- Envelop. J. Mazalin. No. 941,328; Nov. 23; Sp. p. 6345; Gaz. vol. 148; p. 1061.
- Envelop. F. M. Leisure. No. 941,350; Nov. 23; Sp. p. 6394; Gaz. vol. 148; p. 1069.
- Envelop. L. C. Van Riper. No. 941,392; Nov. 30; Sp. p. 6509; Gaz. vol. 148; p. 1106.
- Envelop. R. Landenberger. No. 941,525; Nov. 30; Sp. p. 6786; Gaz. vol. 148; p. 1150.
- Envelop. P. Forschler. No. 941,924; Nov. 30; Sp. p. 7637; Gaz. vol. 148; p. 1286.
- Envelop. L. R. Swett. No. 942,420; Dec. 7; Sp. p. 807; Gaz. vol. 149; p. 132.
- Envelop. E. Wachtermann. No. 943,205; Dec. 14; Sp. p. 2522; Gaz. vol. 149; p. 428.
- Envelop, Accounting-. W. C. Hocking. No. 908,671; Jan. 5; Sp. p. 512; Gaz. vol. 138; p. 80.
- Envelop and seal, Tag-. J. H. Reeves, Jr. No. 925,597; June 22; Sp. p. 5233; Gaz. vol. 143; p. 921.

*Alphabetical list of inventions—Continued.*

- Envelop, Artificial-fly. F. J. Cooper. No. 915,557; Mar. 16; Sp. p. 3930; Gaz. vol. 140; p. 678.  
 Envelop-check, Manifold. A. L. Irvin. No. 927,543; July 13; Sp. p. 1725; Gaz. vol. 144; p. 308.  
 Envelop, Church-offering. J. H. Earle. No. 927,339; July 6; Sp. p. 1282; Gaz. vol. 144; p. 212.  
 Envelop-clipping machine. C. E. Campbell. No. 938,741; Nov. 2; Sp. p. 627; Gaz. vol. 148; p. 99.  
 Envelop closing-cords, Machine for attaching merchandise-. W. E. Swift. No. 923,602; June 1; Sp. p. 1105; Gaz. vol. 143; p. 168.  
 Envelop, Collapsible parcel-. A. Thompson. No. 916,503; Mar. 30; Sp. p. 5797; Gaz. vol. 140; p. 1043.  
 Envelop, Cop-. F. Moss. No. 924,091; June 8; Sp. p. 2138; Gaz. vol. 143; p. 357.  
 Envelop, Document-filing. O. G. Law. No. 923,539; June 1; Sp. p. 940; Gaz. vol. 143; p. 146.  
 Envelop-fastener. J. Crooks. No. 910,912; Jan. 26; Sp. p. 5063; Gaz. vol. 138; p. 912.  
 Envelop-fastener. J. H. Husted. No. 920,466; May 4; Sp. p. 753; Gaz. vol. 142; p. 121.  
 Envelop-fastener. J. S. Applegate. No. 921,939; May 18; Sp. p. 3800; Gaz. vol. 142; p. 668.  
 Envelop-fastener. N. L. Merrick. No. 922,934; May 25; Sp. p. 5866; Gaz. vol. 142; p. 1022.  
 Envelop-fastener. J. E. A. Thollander. No. 929,344; July 27; Sp. p. 5521; Gaz. vol. 144; p. 967.  
 Envelop-feeding mechanism. R. B. Van Dyke. No. 921,185; May 11; Sp. p. 2224; Gaz. vol. 142; p. 391.  
 Envelop for filing or carrying correspondence and the like. A. Bushnell, Jr. No. 930,837; Aug. 10; Sp. p. 2490; Gaz. vol. 145; p. 431.  
 Envelop for post-cards, &c. G. D. Barber. No. 932,090; Aug. 24; Sp. p. 5248; Gaz. vol. 145; p. 895.  
 Envelop-machine. W. S. Metcalfe. No. 923,679; June 1; Sp. p. 1247; Gaz. vol. 143; p. 193.  
 Envelop-machine. W. D. Slater. No. 923,720; June 1; Sp. p. 1332; Gaz. vol. 143; p. 207.  
 Envelop-machine. T. W. Kienast. No. 933,374; Sept. 7; Sp. p. 773; Gaz. vol. 146; p. 121.  
 Envelop of air-proof material. A. T. Saunders. No. 913,058; Feb. 23; Sp. p. 4203; Gaz. vol. 139; p. 761.  
 Envelop-opener. W. L. Barber. No. 934,032; Sept. 14; Sp. p. 2159; Gaz. vol. 146; p. 357.  
 Envelop-opener. H. A. Smith. No. 943,103; Dec. 14; Sp. p. 2329; Gaz. vol. 149; p. 395.  
 Envelop-opening machine. G. Metske. No. 924,562; June 8; Sp. p. 3147; Gaz. vol. 143; p. 514.  
 Envelop-opening means. E. E. Cole. No. 943,814; Dec. 21; Sp. p. 3834; Gaz. vol. 149; p. 666.  
 Envelop, Pocket-. O. C. Sweet. No. 925,730; June 22; Sp. p. 5520; Gaz. vol. 143; p. 963.  
 Envelop, Return-. T. J. Sales. No. 913,919; Mar. 2; Sp. p. 540; Gaz. vol. 140; p. 87.  
 Envelop, Return-. W. T. Morrison. No. 932,715; Aug. 31; Sp. p. 6540; Gaz. vol. 145; p. 1127.  
 Envelop, Returnable. T. J. Sales. No. 918,093; Apr. 13; Sp. p. 2306; Gaz. vol. 141; p. 414.  
 Envelop, Safety-. A. B. Knowlton. No. 910,692; Jan. 26; Sp. p. 4633; Gaz. vol. 138; p. 842.  
 Envelop, Safety-. F. Aubrey. No. 917,518; Apr. 6; Sp. p. 1097; Gaz. vol. 141; p. 192.  
 Envelop, Safety-. C. H. W. Koerner. No. 918,330; Apr. 13; Sp. p. 2775; Gaz. vol. 141; p. 491.  
 Envelop, Safety-. T. Embury. No. 918,982; Apr. 20; Sp. p. 4219; Gaz. vol. 141; p. 737.  
 Envelop, Safety-. I. T. Michaelson. No. 925,367; June 15; Sp. p. 4773; Gaz. vol. 143; p. 815.  
 Envelop, Safety-. J. W. Carr. No. 927,112; July 6; Sp. p. 869; Gaz. vol. 144; p. 139.  
 Envelop, Safety-. W. F. Young. No. 932,742; Aug. 31; Sp. p. 6591; Gaz. vol. 145; p. 1136.  
 Envelop, Safety-. R. Z. Nyce. No. 935,270; Sept. 28; Sp. p. 4616; Gaz. vol. 146; p. 821.  
 Envelop, Safety-. R. Hasel. No. 939,949; Nov. 9; Sp. p. 3295; Gaz. vol. 148; p. 543.  
 Envelop, Safety-. P. A. Thorin. No. 941,288; Nov. 23; Sp. p. 6277; Gaz. vol. 148; p. 1051.  
 Envelop, Safety-. W. E. Fisher. No. 943,111; Dec. 14; Sp. p. 2343; Gaz. vol. 149; p. 397.  
 Envelop-seal. H. Bennick. No. 914,918; Mar. 9; Sp. p. 2635; Gaz. vol. 140; p. 442.  
 Envelop-sealing and stamp-affixing machine. S. C. Kindig and W. Wittler. No. 914,350; Mar. 2; Sp. p. 1477; Gaz. vol. 140; p. 230.  
 Envelops and the like, Machine for manufacturing. W. Spannuth and M. and M. R. Dünnebieber. No. 934,943; Sept. 21; Sp. p. 3958; Gaz. vol. 146; p. 687.  
 Equalizer. W. H. Pickle. No. 926,019; June 22; Sp. p. 6130; Gaz. vol. 143; p. 1058.  
 Equalizer, Front-fork. S. J. Buckland. No. 940,783; Nov. 23; Sp. p. 5198; Gaz. vol. 148; p. 883.  
 Equalizer, Three-horse hitch-. N. H. Kellar. No. 933,310; Sept. 7; Sp. p. 626; Gaz. vol. 146; p. 97.  
 Equalizing mechanism. C. P. Hidden. No. 924,069; June 8; Sp. p. 2101; Gaz. vol. 143; p. 351.  
 Eraser. F. W. Humphrey. No. 921,456; May 11; Sp. p. 2804; Gaz. vol. 142; p. 482.  
 Eraser. J. S. Thurman. No. 938,725; Nov. 2; Sp. p. 597; Gaz. vol. 148; p. 94.  
 Eraser cleaner, Blackboard-. A. Histrup. No. 925,478; June 22; Sp. p. 4994; Gaz. vol. 143; p. 881.  
 Eraser-cleaning machine. J. A. Jones. No. 940,254; Nov. 16; Sp. p. 3994; Gaz. vol. 148; p. 680.  
 Eraser-holder. C. Frederick. No. 931,405; Aug. 17; Sp. p. 3770; Gaz. vol. 145; p. 652.  
 Eraser-holder for pencils, Attachable. A. F. W. Bowen. No. 916,987; Apr. 6; Sp. p. 43; Gaz. vol. 141; p. 12.  
 Eraser, Ink-. F. M. Holder. No. 928,667; Nov. 2; Sp. p. 493; Gaz. vol. 148; p. 76.  
 Eraser, Rotary. W. R. Gardner. No. 933,299; Sept. 7; Sp. p. 609; Gaz. vol. 146; p. 93.  
 Escutcheon-plate. H. S. Lockwood. No. 924,801; June 15; Sp. p. 3671; Gaz. vol. 143; p. 629.  
 Esters, Making isobornyl. C. Weizmann. No. 910,978; Jan. 26; Sp. p. 5181; Gaz. vol. 138; p. 934.  
 Esters, Producing isobornyl. C. Philipp. No. 919,762; Apr. 27; Sp. p. 5990; Gaz. vol. 141; p. 1030.  
 Etching. E. Albert. No. 928,922; July 27; Sp. p. 4594; Gaz. vol. 144; p. 825.  
 Etching apparatus. C. Reverdy. No. 924,984; June 15; Sp. p. 3940; Gaz. vol. 143; p. 673.  
 Etching-machine. L. E. and M. Levy. No. 920,766; May 4; Sp. p. 1350; Gaz. vol. 142; p. 220.  
 Etching-machine. E. Albert. No. 928,923; July 27; Sp. p. 4596; Gaz. vol. 144; p. 825.  
 Etching-machine. H. Schedler. No. 940,480; Nov. 16; Sp. p. 4521; Gaz. vol. 148; p. 756.  
 Ether, Santalol. J. Callen. No. 909,541; Jan. 12; Sp. p. 2240; Gaz. vol. 138; p. 398.  
 Ether, Santalol. J. Callen. (Reissue). No. 13,008; Aug. 17; Sp. p. 4413; Gaz. vol. 145; p. 749.  
 Ethoxyphenylamidomethane sulfonate. R. Lepetit. No. 934,554; Sept. 21; Sp. p. 3180; Gaz. vol. 146; p. 555.  
 Evaporating apparatus. W. and A. Gaulin. No. 927,520; July 13; Sp. p. 1685; Gaz. vol. 144; p. 300.  
 Evaporating apparatus. S. M. Lillie. No. 939,143; Nov. 2; Sp. p. 1471; Gaz. vol. 148; p. 239.  
 Evaporating apparatus. J. Parker. No. 940,473; Nov. 16; Sp. p. 4506; Gaz. vol. 148; p. 753.  
 Evaporating apparatus. C. Ordway. No. 942,407; Dec. 7; Sp. p. 783; Gaz. vol. 149; p. 127.  
 Evaporator. C. L. Schallitz. No. 909,028; Jan. 5; Sp. p. 1217; Gaz. vol. 138; p. 195.  
 Evaporator. T. Suzuki. No. 916,054; Mar. 23; Sp. p. 4908; Gaz. vol. 140; p. 869.  
 Evaporator. T. Suzuki. No. 937,114; Oct. 19; Sp. p. 3134; Gaz. vol. 147; p. 551.  
 Evener. W. A. Paul. No. 937,853; Oct. 26; Sp. p. 4701; Gaz. vol. 147; p. 813.  
 Evener and whiffletree coupling. C. A. Hennicke. No. 944,264; Dec. 28; Sp. p. 4773; Gaz. vol. 149; p. 844.  
 Evener-bar. C. A. Whipple and C. A. Johnson. No. 926,917; July 6; Sp. p. 445; Gaz. vol. 144; p. 72.  
 Examination, operating, or treatment table. E. W. Thomas. No. 920,500; May 4; Sp. p. 817; Gaz. vol. 142; p. 132.  
 Excavating and hoisting device. W. Webster. No. 925,734; June 22; Sp. p. 5530; Gaz. vol. 143; p. 964.  
 Excavating and loading machine. J. Bingham. No. 909,982; Jan. 19; Sp. p. 3127; Gaz. vol. 138; p. 578.  
 Excavating and trenching machine. T. D. Gleason. No. 937,066; Oct. 19; Sp. p. 3042; Gaz. vol. 147; p. 534.  
 Excavating apparatus. D. H. Gilson. No. 910,055; Jan. 19; Sp. p. 3268; Gaz. vol. 138; p. 602.  
 Excavating apparatus. A. E. Lehmann. No. 940,035; Nov. 16; Sp. p. 3481; Gaz. vol. 148; p. 602.  
 Excavating-bucket. W. C. Mitchell. No. 925,588; June 22; Sp. p. 5216; Gaz. vol. 143; p. 917.  
 Excavating bucket-head. J. Kauth. No. 924,791; June 15; Sp. p. 3654; Gaz. vol. 143; p. 626.  
 Excavating buckets or shovels, Tooth for. A. H. Exton and J. M. Sherrerd. No. 923,159; June 1; Sp. p. 85; Gaz. vol. 143; p. 14.  
 Excavating buckets or shovels, Tooth for. A. H. Exton and J. M. Sherrerd. No. 943,775; Dec. 21; Sp. p. 3753; Gaz. vol. 149; p. 653.  
 Excavating device. W. C. Weeks. No. 921,928; May 18; Sp. p. 3778; Gaz. vol. 142; p. 665.  
 Excavating, grading, and conveying machine. F. J. Thull. No. 908,820; Jan. 5; Sp. p. 809; Gaz. vol. 138; p. 127.  
 Excavating-machine. C. H. Ruth. No. 910,864; Jan. 26; Sp. p. 4966; Gaz. vol. 138; p. 897.  
 Excavating-machine. G. E. Turner. No. 919,498; Apr. 27; Sp. p. 5483; Gaz. vol. 141; p. 942.  
 Excavating-machine. E. J. Mundale. No. 923,290; June 1; Sp. p. 412; Gaz. vol. 143; p. 58.  
 Excavating-machine. G. Holmes. No. 933,451; Sept. 7; Sp. p. 931; Gaz. vol. 146; p. 143.  
 Excavating-machine. W. F. and C. C. Jacobs. No. 937,373; Oct. 19; Sp. p. 3689; Gaz. vol. 147; p. 634.  
 Excavating-machine. M. G. Bunnell. No. 937,764; Oct. 26; Sp. p. 4513; Gaz. vol. 147; p. 783.  
 Excavating-machine. D. W. Miller. No. 939,731; Nov. 9; Sp. p. 2831; Gaz. vol. 148; p. 467.  
 Excavating-machine. D. W. Miller. No. 939,850; Nov. 9; Sp. p. 3077; Gaz. vol. 148; p. 508.  
 Excavating-machine. L. P. Clutter. No. 944,320; Dec. 28; Sp. p. 4907; Gaz. vol. 149; p. 864.  
 Excavating or hoisting apparatus. J. L. Potter. No. 942,216; Dec. 7; Sp. p. 402; Gaz. vol. 149; p. 62.  
 Excavating-shovel. H. G. Butler. No. 923,405; June 1; Sp. p. 670; Gaz. vol. 143; p. 98.  
 Excavator. W. S. Smith. No. 909,700; Jan. 12; Sp. p. 2550; Gaz. vol. 138; p. 453.  
 Excavator. C. H. Caleson. No. 912,806; Feb. 16; Sp. p. 3731; Gaz. vol. 139; p. 656.  
 Excavator. W. Hurst. No. 914,142; Mar. 2; Sp. p. 1042; Gaz. vol. 140; p. 165.



*Alphabetical list of inventions—Continued.*

- Excavator. T. H. Walker. No. 916,232; Mar. 23; Sp. p. 5244; Gaz. vol. 140; p. 926.  
 Excavator. R. P. McCormick. No. 922,314; May 18; Sp. p. 4544; Gaz. vol. 142; p. 790.  
 Excavator. E. Hoy. No. 923,528; June 1; Sp. p. 921; Gaz. vol. 143; p. 142.  
 Excavator. R. E. Watson. No. 933,683; Sept. 7; Sp. p. 1469; Gaz. vol. 146; p. 221.  
 Excavator. J. P. Kerr. No. 935,992; Oct. 5; Sp. p. 836; Gaz. vol. 147; p. 125.  
 Excavator. W. O. Stark. No. 936,179; Oct. 5; Sp. p. 1212; Gaz. vol. 147; p. 184.  
 Excavator. A. Toupin. No. 940,752; Nov. 23; Sp. p. 5120; Gaz. vol. 148; p. 872.  
 Excavator and conveyor, Earth. C. E. Bearce. No. 925,075; June 15; Sp. p. 4229; Gaz. vol. 143; p. 720.  
 Excavator and dredge, Twin-boom adjustable. C. D. Campbell. No. 926,096; June 29; Sp. p. 6302; Gaz. vol. 143; p. 1119.  
 Excavator controlling mechanism. J. B. Webber, Jr. No. 910,617; Jan. 28; Sp. p. 4496; Gaz. vol. 138; p. 820.  
 Excavator, Drainage. M. G. Bunnell. No. 940,126; Nov. 16; Sp. p. 3727; Gaz. vol. 145; p. 635.  
 Excavator-frame structure, Traveling. L. Mayer. No. 916,347; Mar. 23; Sp. p. 5441; Gaz. vol. 140; p. 966.  
 Excavator, Hydraulic. C. B. Askew. No. 934,031; Sept. 14; Sp. p. 2154; Gaz. vol. 146; p. 356.  
 Excavator, Multiple. C. C. Jacobs. No. 926,746; July 6; Sp. p. 82; Gaz. vol. 144; p. 12.  
 Excavator or dredger. R. Glogner. No. 932,857; Aug. 31; Sp. p. 6826; Gaz. vol. 145; p. 1171.  
 Excavator-shovel, Tandem. C. C. Jacobs. No. 928,258; July 20; Sp. p. 3251; Gaz. vol. 144; p. 577.  
 Excelsior-machine. W. R. Phelps. No. 919,454; Apr. 27; Sp. p. 5356; Gaz. vol. 141; p. 926.  
 Exchange switching device, Party-line. W. Hagstrom. No. 909,403; Jan. 12; Sp. p. 1962; Gaz. vol. 138; p. 350.  
 Exerciser. W. H. Linerode. No. 935,854; Oct. 5; Sp. p. 543; Gaz. vol. 147; p. 78.  
 Exerciser. F. P. Fay. No. 938,045; Oct. 26; Sp. p. 5028; Gaz. vol. 147; p. 877.  
 Exercising apparatus. A. Zünd-Burguet. No. 913,799; Mar. 2; Sp. p. 257; Gaz. vol. 140; p. 43.  
 Exercising apparatus. P. S. Medart. No. 931,699; Aug. 17; Sp. p. 4378; Gaz. vol. 145; p. 744.  
 Exercising apparatus. W. F. Valentino. No. 931,818; Aug. 24; Sp. p. 4650; Gaz. vol. 145; p. 805.  
 Exercising apparatus. W. F. Stull. No. 938,348; Oct. 26; Sp. p. 5764; Gaz. vol. 147; p. 981.  
 Exercising apparatus, Electrical. W. C. Schauler. No. 938,399; Oct. 26; Sp. p. 5888; Gaz. vol. 147; p. 999.  
 Exercising device. A. Day. No. 931,394; Aug. 17; Sp. p. 3756; Gaz. vol. 145; p. 648.  
 Exercising-machine. J. F. Vanderboss. No. 928,085; July 13; Sp. p. 2860; Gaz. vol. 144; p. 488.  
 Exercising-machine. L. S. Hackney. No. 937,795; Oct. 26; Sp. p. 4586; Gaz. vol. 147; p. 794.  
 Exercising or massage apparatus. R. Reach. No. 942,976; Dec. 14; Sp. p. 2027; Gaz. vol. 149; p. 351.  
 Exhaust-head. J. W. Parker. No. 942,585; Dec. 7; Sp. p. 1155; Gaz. vol. 149; p. 188.  
 Exhibiting apparatus. C. D. Whittredge. No. 941,118; Nov. 23; Sp. p. 5895; Gaz. vol. 148; p. 993.  
 Exhibiting apparatus. S. B. Moscovitz. No. 942,008; Nov. 30; Sp. p. 7793; Gaz. vol. 148; p. 1312.  
 Exhibiting apparatus. C. D. Whittredge. No. 942,123; Dec. 7; Sp. p. 207; Gaz. vol. 149; p. 32.  
 Exhibiting device. E. W. Livermore. No. 925,209; June 15; Sp. p. 4491; Gaz. vol. 143; p. 767.  
 Exhibiting-machine. G. E. Heyl-Dia. No. 908,668; Jan. 5; Sp. p. 509; Gaz. vol. 138; p. 80.  
 Exhibition apparatus. R. C. Adams. No. 937,981; Oct. 26; Sp. p. 4964; Gaz. vol. 147; p. 556.  
 Exhibitor, Changeable. W. C. Williams. No. 931,910; Aug. 24; Sp. p. 4873; Gaz. vol. 145; p. 835.  
 Exhibitor, Changeable. G. R. Hollingsworth. No. 933,075; Sept. 7; Sp. p. 75; Gaz. vol. 146; p. 13.  
 Expander and flanger. F. Pfuger and E. Christensen. No. 929,706; Aug. 3; Sp. p. 136; Gaz. vol. 145; p. 25.  
 Expansion-bolt. D. R. Berry. No. 914,103; Mar. 2; Sp. p. 964; Gaz. vol. 140; p. 151.  
 Expansion-bolt. H. K. Whitner. No. 921,037; May 11; Sp. p. 1916; Gaz. vol. 142; p. 339.  
 Expansion-bolt. H. W. Mower. No. 927,004; July 6; Sp. p. 773; Gaz. vol. 144; p. 123.  
 Expansion-bolt. C. D. Vernon and J. P. Morningstar. No. 939,457; Nov. 9; Sp. p. 2247; Gaz. vol. 148; p. 373.  
 Expansion-bolt, Self-locking. C. D. Vernon and J. P. Morningstar. No. 922,980; May 25; Sp. p. 5942; Gaz. vol. 142; p. 1036.  
 Expansion-motor. G. Meyersberg. No. 923,680; June 1; Sp. p. 1250; Gaz. vol. 143; p. 193.  
 Expansion-tank. J. R. Shanklin. No. 920,672; May 4; Sp. p. 1185; Gaz. vol. 142; p. 190.  
 Expansion-tank with liquid-relief. H. A. R. Dietrich. No. 941,235; Nov. 23; Sp. p. 6160; Gaz. vol. 148; p. 1033.  
 Expense-register. S. Johnsen. No. 919,587; Apr. 27; Sp. p. 5656; Gaz. vol. 141; p. 971.  
 Explosion-engine. T. Matson. No. 912,012; Feb. 9; Sp. p. 2032; Gaz. vol. 139; p. 353.  
 Explosion-engine. R. D. Cody. No. 924,634; June 15; Sp. p. 3322; Gaz. vol. 143; p. 571.  
 Explosion-engine. H. M. Cramer. No. 924,640; June 15; Sp. p. 3333; Gaz. vol. 143; p. 574.  
 Explosion-engine. J. and F. O. Peterson. No. 926,892; July 6; Sp. p. 390; Gaz. vol. 144; p. 63.  
 Explosion-engine. B. G. Harley. No. 928,968; July 27; Sp. p. 4683; Gaz. vol. 144; p. 840.  
 Explosion-engine. C. T. Brown. No. 930,347; Aug. 10; Sp. p. 1462; Gaz. vol. 145; p. 268.  
 Explosion-engine, Rotary. E. M. Weinat. No. 908,916; Jan. 5; Sp. p. 998; Gaz. vol. 138; p. 160.  
 Explosion-motor with rotating cylinders. H. Nielsen. No. 926,353; June 29; Sp. p. 6842; Gaz. vol. 143; p. 1204.  
 Explosions, Apparatus for utilizing energy derived from. W. H. Smyth. No. 936,677; Oct. 12; Sp. p. 2267; Gaz. vol. 147; p. 377.  
 Explosions in subterranean hollows, Preventing. A. B. Steffens. No. 944,977; Dec. 28; Sp. p. 6337; Gaz. vol. 149; p. 1087.  
 Explosive. E. A. Le Sueur. No. 923,435; June 1; Sp. p. 725; Gaz. vol. 143; p. 108.  
 Explosive. C. Clément and J. Langhard. No. 933,060; Sept. 7; Sp. p. 47; Gaz. vol. 146; p. 9.  
 Explosive. O. F. von Schroetter. No. 934,020; Sept. 14; Sp. p. 2140; Gaz. vol. 146; p. 354.  
 Explosive. C. U. Buck. No. 940,580; Nov. 16; Sp. p. 4743; Gaz. vol. 148; p. 790.  
 Explosive. L. N. Bent and H. Talley. No. 943,589; Dec. 14; Sp. p. 3318; Gaz. vol. 149; p. 559.  
 Explosive and making the same. A. La Motte. No. 911,019; Jan. 26; Sp. p. 5266; Gaz. vol. 138; p. 947.  
 Explosive compound. F. H. Briggs. No. 934,990; Sept. 28; Sp. p. 4053; Gaz. vol. 146; p. 728.  
 Explosive compound and producing the same. G. Lezinsky. No. 909,915; Jan. 19; Sp. p. 2994; Gaz. vol. 138; p. 555.  
 Explosive-engine. O. E. Barthel. No. 908,641; Jan. 5; Sp. p. 445; Gaz. vol. 138; p. 72.  
 Explosive-engine. L. A. Frayer and C. O. Howard. No. 908,657; Jan. 5; Sp. p. 495; Gaz. vol. 138; p. 77.  
 Explosive-engine. C. M. Steely. No. 912,751; Feb. 16; Sp. p. 3627; Gaz. vol. 139; p. 638.  
 Explosive-engine. R. McMyers. No. 914,864; Mar. 9; Sp. p. 2547; Gaz. vol. 140; p. 425.  
 Explosive-engine. L. T. Bassett. No. 916,972; Apr. 6; Sp. p. 21; Gaz. vol. 141; p. 7.  
 Explosive-engine. C. J. Farrar. No. 919,842; Apr. 27; Sp. p. 6193; Gaz. vol. 141; p. 1056.  
 Explosive-engine. M. Tschimperle. No. 919,980; Apr. 27; Sp. p. 6450; Gaz. vol. 141; p. 1102.  
 Explosive-engine. J. W. Smith. No. 920,405; May 4; Sp. p. 637; Gaz. vol. 142; p. 102.  
 Explosive-engine. M. Berliet. No. 920,417; May 4; Sp. p. 671; Gaz. vol. 142; p. 106.  
 Explosive-engine. R. Nessler. No. 923,069; May 25; Sp. p. 6138; Gaz. vol. 142; p. 1065.  
 Explosive-engine. R. W. Coffee. No. 923,491; June 1; Sp. p. 839; Gaz. vol. 143; p. 128.  
 Explosive-engine. C. C. Coffey, T. Pfennighausen, and E. A. Robinson. No. 926,641; June 29; Sp. p. 7361; Gaz. vol. 143; p. 1299.  
 Explosive-engine. H. Greer, Jr. No. 926,651; June 29; Sp. p. 7385; Gaz. vol. 143; p. 1303.  
 Explosive-engine. L. Peterson. No. 927,004; July 6; Sp. p. 620; Gaz. vol. 144; p. 101.  
 Explosive-engine. A. F. Clarke. No. 929,554; July 27; Sp. p. 5881; Gaz. vol. 144; p. 1033.  
 Explosive-engine. I. G. Neuber. No. 929,622; July 27; Sp. p. 6029; Gaz. vol. 144; p. 1055.  
 Explosive-engine. W. F. Beaton. No. 931,176; Aug. 17; Sp. p. 3275; Gaz. vol. 145; p. 571.  
 Explosive-engine. J. D. Hay. No. 942,140; Dec. 7; Sp. p. 251; Gaz. vol. 149; p. 38.  
 Explosive-engine. L. F. Loftus. No. 944,340; Dec. 28; Sp. p. 4940; Gaz. vol. 149; p. 871.  
 Explosive-engine. W. J. Wright. No. 936,972; Oct. 12; Sp. p. 2842; Gaz. vol. 147; p. 474.  
 Explosive-engine. F. H. Treat. No. 938,401; Oct. 26; Sp. p. 5892; Gaz. vol. 147; p. 1000.  
 Explosive-engine. A. J. Cole. No. 939,669; Nov. 9; Sp. p. 2708; Gaz. vol. 148; p. 447.  
 Explosive-engine, Compound. S. A. Reeve. No. 922,509; May 25; Sp. p. 4950; Gaz. vol. 142; p. 883.  
 Explosive engine, Double-impulse internal. H. V. Johansen. No. 944,195; Dec. 21; Sp. p. 4637; Gaz. vol. 149; p. 794.  
 Explosive-engine, Rotary. C. Sella. No. 917,165; Apr. 6; Sp. p. 416; Gaz. vol. 141; p. 72.  
 Explosive grenade. F. M. Hale. No. 940,527; Nov. 16; Sp. p. 4625; Gaz. vol. 148; p. 771.  
 Explosive-mixing machine. H. Talley. No. 940,216; Nov. 16; Sp. p. 3924; Gaz. vol. 148; p. 667.  
 Explosive mixtures, Evaporating. F. I. du Pont. No. 944,500; Dec. 28; Sp. p. 5324; Gaz. vol. 149; p. 928.  
 Explosive nitro substances, Increasing the density of fusible. C. E. Bichel. No. 925,419; June 15; Sp. p. 4863; Gaz. vol. 143; p. 831.  
 Explosives by percussion-caps, Apparatus for firing. L. H. Broadwater. No. 921,670; May 18; Sp. p. 3269; Gaz. vol. 142; p. 581.  
 Explosives, Device for detecting decomposition of. E. Bouchaud-Praceig. No. 934,500; Sept. 21; Sp. p. 3084; Gaz. vol. 146; p. 538.  
 Explosives in wells, Apparatus for firing. L. H. Broadwater. No. 943,383; Dec. 14; Sp. p. 2902; Gaz. vol. 149; p. 489.  
 Explosives, Manufacture of. R. Escalles and M. Novak. No. 915,165; Mar. 16; Sp. p. 3131; Gaz. vol. 140; p. 549.  
 Expressing-press. A. W. French. No. 942,442; Dec. 7; Sp. p. 853; Gaz. vol. 149; p. 139.  
 Extender and recliner, Combination automatic. W. G. Classen. No. 910,642; Jan. 26; Sp. p. 4549; Gaz. vol. 138; p. 827.  
 Extensible bracket. O. H. Pieper. No. 913,049; Feb. 23; Sp. p. 4187; Gaz. vol. 139; p. 758.

*Alphabetical list of inventions—Continued.*

- Extensible bracket. C. B. Corbin. No. 922,566; May 25; Sp. p. 5087; Gaz. vol. 142; p. 902.  
 Extensible case. E. G. Schrieffer. No. 909,951; Jan. 19; Sp. p. 3067; Gaz. vol. 138; p. 568.  
 Extension-bolt. C. T. Schwing. No. 909,462; Jan. 12; Sp. p. 2081; Gaz. vol. 138; p. 370.  
 Extension-bolt. F. H. Crump. No. 937,577; Oct. 19; Sp. p. 4137; Gaz. vol. 147; p. 704.  
 Extension-clamp. A. L. Cobb. No. 912,543; Feb. 16; Sp. p. 3148; Gaz. vol. 139; p. 565.  
 Extension-rod. C. C. Blake. No. 935,885; Oct. 5; Sp. p. 616; Gaz. vol. 147; p. 89.  
 Extension-table. G. B. Dickson. No. 913,204; Feb. 23; Sp. p. 4498; Gaz. vol. 139; p. 811.  
 Extension-table. G. Steingruber. No. 915,241; Mar. 16; Sp. p. 3287; Gaz. vol. 140; p. 574.  
 Extension-table. A. H. Stone. No. 923,309; June 1; Sp. p. 462; Gaz. vol. 143; p. 65.  
 Extension-table. A. S. El-Kouri. No. 925,427; June 15; Sp. p. 4882; Gaz. vol. 143; p. 834.  
 Extension-table. M. Finholm. No. 927,782; July 13; Sp. p. 2241; Gaz. vol. 144; p. 388.  
 Extension-table. A. G. Wettergren. No. 927,911; July 13; Sp. p. 2527; Gaz. vol. 144; p. 431.  
 Extension-table. E. L. Marston. No. 935,608; Sept. 28; Sp. p. 5311; Gaz. vol. 146; p. 932.  
 Extension-table. E. L. Marston. No. 935,609; Sept. 28; Sp. p. 5313; Gaz. vol. 146; p. 932.  
 Extension-table. E. Tyden. No. 936,494; Oct. 12; Sp. p. 1897; Gaz. vol. 147; p. 313.  
 Extension-table. E. Tyden. No. 936,586; Oct. 12; Sp. p. 2080; Gaz. vol. 147; p. 345.  
 Extension-table. S. W. Whonn. No. 937,350; Oct. 19; Sp. p. 3646; Gaz. vol. 147; p. 627.  
 Extension-table. C. S. Burton. No. 943,337; Dec. 14; Sp. p. 2509; Gaz. vol. 149; p. 473.  
 Extension-table, Pedestal. O. G. Franks. No. 924,446; June 8; Sp. p. 2909; Gaz. vol. 143; p. 476.  
 Extension-table, Pedestal. W. L. Pfefferkorn, A. P. Schloerb, and A. H. Hammetter. No. 933,108; Sept. 7; Sp. p. 149; Gaz. vol. 146; p. 25.  
 Extension-wrench for operating tube-expanders, &c. F. M. Hawkins. No. 937,526; Oct. 19; Sp. p. 4043; Gaz. vol. 147; p. 687.  
 Exterior operating-machine. J. F. Ohmer. No. 911,517; Feb. 2; Sp. p. 936; Gaz. vol. 139; p. 164.  
 Extinguisher. J. D. White. No. 921,323; May 11; Sp. p. 2525; Gaz. vol. 142; p. 438.  
 Extinguisher. A. D. Swoger. No. 940,832; Nov. 23; Sp. p. 5300; Gaz. vol. 148; p. 899.  
 Extractor: See Beeswax-extractor; Bolt-extractor; Bung-extractor; Centrifugalextractor; Cork-extractor; Flight-extractor; Gas-extractor; Honey-extractor; Lard-gaze-extractor; Lemon-juiceextractor; Nail-extractor; Ore-extractor; Percolator and extractor; Sinew-extractor; Stump-extractor; Wax-extractor.  
 Extractor. H. Price and A. N. Hood. No. 932,900; Aug. 31; Sp. p. 6902; Gaz. vol. 145; p. 1156.  
 Extracts, Making. W. Wiegand. No. 930,909; Aug. 10; Sp. p. 2652; Gaz. vol. 145; p. 455.  
 Eye-cup. C. A. Maher. No. 914,295; Mar. 2; Sp. p. 1363; Gaz. vol. 140; p. 211.  
 Eye-guard. H. S. Cover. (Reissue.) No. 12,924; Mar. 2; Sp. p. 1538; Gaz. vol. 140; p. 237.  
 Eye-shade. S. H. Dice. No. 918,975; Apr. 20; Sp. p. 4205; Gaz. vol. 141; p. 735.  
 Eye-shade. G. E. Henry. No. 932,703; Aug. 31; Sp. p. 6515; Gaz. vol. 145; p. 1122.  
 Eye-shade. J. A. Blackstock. No. 944,767; Dec. 28; Sp. p. 5906; Gaz. vol. 149; p. 1018.  
 Eye-shield. A. F. Burdick. No. 915,738; Mar. 23; Sp. p. 4321; Gaz. vol. 140; p. 768.  
 Eyeglass-case. A. W. Farrington. No. 909,386; Jan. 12; Sp. p. 1934; Gaz. vol. 138; p. 345.  
 Eyeglass-chain reel. O. B. Wedell. No. 938,359; Oct. 26; Sp. p. 3804; Gaz. vol. 147; p. 985.  
 Eyeglass-clip. W. G. King. No. 927,981; July 13; Sp. p. 2662; Gaz. vol. 144; p. 453.  
 Eyeglass-fastener. G. F. Powell. No. 930,612; Aug. 10; Sp. p. 2037; Gaz. vol. 145; p. 357.  
 Eyeglass-frame. F. A. Marcher. No. 926,667; June 29; Sp. p. 7415; Gaz. vol. 143; p. 1308.  
 Eyeglass-guard. J. S. Galeski. No. 924,226; June 8; Sp. p. 2488; Gaz. vol. 143; p. 404.  
 Eyeglass-guard. C. L. Merry. No. 939,527; Nov. 9; Sp. p. 2387; Gaz. vol. 148; p. 396.  
 Eyeglass-holder. W. H. Bradshaw. No. 942,480; Dec. 7; Sp. p. 950; Gaz. vol. 149; p. 153.  
 Eyeglass-mounting. H. Q. Roskind. No. 923,080; May 25; Sp. p. 6155; Gaz. vol. 142; p. 1068.  
 Eyeglass-mounting. C. F. Ingold. No. 924,906; June 15; Sp. p. 3894; Gaz. vol. 143; p. 664.  
 Eyeglass-mounting. T. E. Carpenter. No. 927,637; July 13; Sp. p. 1941; Gaz. vol. 144; p. 340.  
 Eyeglass-mounting. J. Spaar. No. 930,895; Aug. 10; Sp. p. 2629; Gaz. vol. 145; p. 450.  
 Eyeglass-mounting. S. J. Clulee. No. 938,744; Nov. 2; Sp. p. 633; Gaz. vol. 148; p. 100.  
 Eyeglass-mounts, Guard-plate and bearing-pad for. W. G. Fay. No. 923,826; June 8; Sp. p. 1649; Gaz. vol. 143; p. 274.  
 Eyeglass nose-grip. T. E. Carpenter. No. 922,853; May 25; Sp. p. 5679; Gaz. vol. 142; p. 995.  
 Eyeglass nose-guard. J. H. Ostrander. No. 932,491; Aug. 31; Sp. p. 6059; Gaz. vol. 145; p. 1051.  
 Eyeglass-protector for base-ball players, &c. R. J. Hellawell. No. 924,613; June 8; Sp. p. 3266; Gaz. vol. 143; p. 532.  
 Eyeglass-spring. G. W. Wells. No. 922,227; May 18; Sp. p. 4400; Gaz. vol. 142; p. 763.  
 Eyeglasses. B. Broughton. No. 908,737; Jan. 5; Sp. p. 659; Gaz. vol. 138; p. 102.  
 Eyeglasses. H. S. Johnston. No. 918,055; Apr. 13; Sp. p. 2229; Gaz. vol. 141; p. 400.  
 Eyeglasses. E. H. Schild. No. 920,666; May 4; Sp. p. 1169; Gaz. vol. 142; p. 188.  
 Eyeglasses. J. Friedlander. No. 923,506; June 1; Sp. p. 880; Gaz. vol. 143; p. 133.  
 Eyeglasses. L. F. Adt. No. 926,728; July 6; Sp. p. 16; Gaz. vol. 144; p. 6.  
 Eyeglasses. W. H. Weaser. No. 934,113; Sept. 14; Sp. p. 2337; Gaz. vol. 146; p. 383.  
 Eyeglasses. E. F. Messier. No. 934,825; Sept. 21; Sp. p. 3724; Gaz. vol. 146; p. 647.  
 Eyeglasses. S. J. Clulee. No. 939,668; Nov. 9; Sp. p. 2707; Gaz. vol. 148; p. 447.  
 Eyeglasses. F. Hamilton. No. 940,683; Nov. 23; Sp. p. 4971; Gaz. vol. 148; p. 848.  
 Eyeglasses. E. B. Meyrowitz. No. 943,836; Dec. 21; Sp. p. 3879; Gaz. vol. 149; p. 674.  
 Eyeglasses, Clamp for the frames of. H. A. McDaniel. No. 925,214; June 15; Sp. p. 4508; Gaz. vol. 143; p. 769.  
 Eyeglasses, Connection-guard for. M. B. Korman. No. 933,763; Sept. 14; Sp. p. 1643; Gaz. vol. 146; p. 271.  
 Eyeglasses, Mounting for. C. L. Merry. No. 929,966; Aug. 3; Sp. p. 727; Gaz. vol. 145; p. 116.  
 Eyeglasses, Nose clip or guard for. J. H. Ostrander. No. 913,647; Feb. 23; Sp. p. 5450; Gaz. vol. 139; p. 959.  
 Eyeglasses, Nose-guard for. J. H. Ostrander. No. 913,154; Feb. 23; Sp. p. 4391; Gaz. vol. 139; p. 793.  
 Eyeglasses, Spring-bow for. G. Bausch. No. 917,837; Apr. 13; Sp. p. 1756; Gaz. vol. 141; p. 323.  
 Eyelet. F. H. Richards. No. 910,861; Jan. 26; Sp. p. 4961; Gaz. vol. 138; p. 896.  
 Eyelet. F. H. Rees. No. 911,762; Feb. 9; Sp. p. 1456; Gaz. vol. 139; p. 271.  
 Eyelet. F. A. Donnelly and J. E. Blanthorn. No. 914,705; Mar. 9; Sp. p. 2217; Gaz. vol. 140; p. 372.  
 Eyelet-stay-joining machine. F. L. Anderson. No. 913,934; Mar. 2; Sp. p. 575; Gaz. vol. 140; p. 92.  
 Eyelets, Die for use in the manufacture of. G. E. Warren. No. 942,989; Dec. 14; Sp. p. 2057; Gaz. vol. 149; p. 356.  
 Eyelets, Making. G. E. Warren. No. 942,988; Dec. 14; Sp. p. 2054; Gaz. vol. 149; p. 356.  
 Eyeletting-machine. H. H. Eaton. No. 908,453; Jan. 5; Sp. p. 40; Gaz. vol. 138; p. 9.  
 Eyeletting-machine. G. Knight. No. 909,095; Jan. 5; Sp. p. 1354; Gaz. vol. 138; p. 217.  
 Eyeletting-machine. J. E. McIntire. No. 915,996; Mar. 23; Sp. p. 4808; Gaz. vol. 140; p. 850.  
 Eyeletting-machine. J. E. McIntire. No. 921,648; May 11; Sp. p. 3201; Gaz. vol. 142; p. 547.  
 Eyeletting-machine. R. B. Smith. No. 926,903; July 6; Sp. p. 407; Gaz. vol. 144; p. 66.  
 Eyeletting-machine. W. F. Lautenschlager. No. 926,948; July 6; Sp. p. 503; Gaz. vol. 144; p. 82.  
 Eyeletting-machine. W. F. Lautenschlager. No. 933,315; Sept. 7; Sp. p. 634; Gaz. vol. 146; p. 99.  
 Eyeletting-machine. G. Goddu. No. 934,066; Sept. 14; Sp. p. 2224; Gaz. vol. 146; p. 368.  
 Fabric: See Bed-bottom fabric; Braided fabric; Couch fabric; Knit fabric; Knitted fabric; Pile or plush fabric; Reinforced fabric; Roofing fabric; Spring fabric; Tanned fabric; Textile fabric; Tire fabric; Wire fabric; Woven fabric.  
 Fabric. N. L. Duryea. No. 909,379; Jan. 12; Sp. p. 1922; Gaz. vol. 138; p. 343.  
 Fabric. G. A. Lowry. No. 918,683; Apr. 20; Sp. p. 3585; Gaz. vol. 141; p. 636.  
 Fabric. L. Puryear. No. 922,811; May 25; Sp. p. 5585; Gaz. vol. 142; p. 981.  
 Fabric. J. L. Patterson. No. 928,535; July 20; Sp. p. 3816; Gaz. vol. 144; p. 669.  
 Fabric. F. J. Crouch. No. 929,290; July 27; Sp. p. 5377; Gaz. vol. 144; p. 947.  
 Fabric. E. H. Outerbridge. No. 931,469; Aug. 17; Sp. p. 3898; Gaz. vol. 145; p. 673.  
 Fabric and weaving the same, Tubular. E. Kunzli. No. 914,429; Mar. 9; Sp. p. 1645; Gaz. vol. 140; p. 281.  
 Fabric-beetling machine. H. Gray. No. 918,668; Apr. 20; Sp. p. 3546; Gaz. vol. 141; p. 632.  
 Fabric bleaching and dyeing machine. G. Collis. No. 914,797; Mar. 9; Sp. p. 2403; Gaz. vol. 140; p. 403.  
 Fabric-cutting machine. S. J. Sill. No. 910,325; Jan. 19; Sp. p. 3874; Gaz. vol. 138; p. 697.  
 Fabric folding and piling mechanism. J. A. Butler and L. Flick. No. 937,566; Oct. 19; Sp. p. 4119; Gaz. vol. 147; p. 701.  
 Fabric-folding machine, Tubular-knit. H. A. Shields. No. 915,229; Mar. 16; Sp. p. 3260; Gaz. vol. 140; p. 570.  
 Fabric for beds, couches, &c. C. H. Gail. No. 943,245; Dec. 14; Sp. p. 2608; Gaz. vol. 149; p. 442.  
 Fabric inspecting and marking machine. J. A. Butler and L. Flick. No. 915,267; Mar. 16; Sp. p. 3332; Gaz. vol. 140; p. 582.  
 Fabric, Making link. F. Viano. No. 924,952; Sept. 21; Sp. p. 3971; Gaz. vol. 146; p. 690.  
 Fabric, Method and apparatus for handling coated reinforcing. A. Thoma. No. 937,391; Oct. 19; Sp. p. 3738; Gaz. vol. 147; p. 640.  
 Fabric-roll-edge protector. G. W. Loughman. No. 919,607; Apr. 27; Sp. p. 5694; Gaz. vol. 141; p. 979.



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 Fabric-roll-edge protector. G. W. Loughman. No. 919,739; Apr. 27; Sp. p. 5955; Gaz. vol. 141; p. 1022.  
 Fabric-roll-edge protector. G. W. Loughman. No. 923,362; June 1; Sp. p. 581; Gaz. vol. 143; p. 83.  
 Fabric-shearing machine, Woven-pile. H. I. Magee. No. 918,349; Apr. 13; Sp. p. 2815; Gaz. vol. 141; p. 498.  
 Fabric, Woven pile. A. G. Robertson. No. 908,888; Jan. 5; Sp. p. 946; Gaz. vol. 138; p. 150.  
 Fabrics and other materials, Apparatus for impregnating. E. W. Strohn. No. 937,889; Oct. 26; Sp. p. 4775; Gaz. vol. 147; p. 825.  
 Fabrics, Apparatus for impregnating and extracting liquids from. H. Hey. No. 923,971; June 8; Sp. p. 1921; Gaz. vol. 143; p. 360.  
 Fabrics, Apparatus for removing dye from. O. Venter. No. 934,110; Sept. 14; Sp. p. 2329; Gaz. vol. 148; p. 382.  
 Fabrics, Apparatus for stretching textile. F. Farnworth. No. 920,122; May 4; Sp. p. 69; Gaz. vol. 142; p. 9.  
 Fabrics, Forming woven pile. J. K. Dalkranian. No. 923,026; May 25; Sp. p. 6032; Gaz. vol. 142; p. 1050.  
 Fabrics, Joining or connecting. W. Keller. No. 926,004; June 22; Sp. p. 6092; Gaz. vol. 143; p. 1054.  
 Fabrics, Machine for cutting friction. L. Atwood. No. 933,688; Sept. 7; Sp. p. 1483; Gaz. vol. 146; p. 223.  
 Fabrics, Machine for inserting diagonal strands into woven-cane. J. Tilp. No. 929,345; July 27; Sp. p. 5523; Gaz. vol. 144; p. 968.  
 Fabrics, Machine for turning and winding tubular. T. H. Murphy. No. 941,164; Nov. 23; Sp. p. 6003; Gaz. vol. 148; p. 1009.  
 Fabrics, Machinery for manufacturing textile. W. Bowker. No. 939,467; Nov. 9; Sp. p. 2269; Gaz. vol. 148; p. 376.  
 Fabrics, Means for attaching plates to. J. W. Clapp. No. 919,695; Apr. 27; Sp. p. 5874; Gaz. vol. 141; p. 1008.  
 Fabrics to render them adhesive. Treating. F. J. Gleason. No. 925,894; June 22; Sp. p. 5893; Gaz. vol. 143; p. 1018.  
 Fabrics with fluids, Apparatus for treating. E. Gminder. No. 943,632; Dec. 14; Sp. p. 3457; Gaz. vol. 149; p. 576.  
 Fabrics with fluids, Treating. E. Gminder. No. 924,979; June 15; Sp. p. 4045; Gaz. vol. 143; p. 689.  
 Face-bleach. E. J. Clark. No. 920,824; May 4; Sp. p. 1481; Gaz. vol. 142; p. 239.  
 Factories, Electric production-controlling device for. W. H. Chappell. No. 926,386; June 29; Sp. p. 6896; Gaz. vol. 143; p. 1214.  
 Fair leader. E. D. Roberts. No. 920,394; May 4; Sp. p. 622; Gaz. vol. 142; p. 99.  
 Fan. F. Gerber. No. 912,464; Feb. 16; Sp. p. 2969; Gaz. vol. 139; p. 537.  
 Fan. F. D'Aversa. No. 915,663; Mar. 16; Sp. p. 4159; Gaz. vol. 140; p. 717.  
 Fan. S. A. Price. No. 918,593; Apr. 20; Sp. p. 3330; Gaz. vol. 141; p. 605.  
 Fan. J. Russel. No. 925,031; June 15; Sp. p. 4154; Gaz. vol. 143; p. 707.  
 Fan. L. L. Korach. No. 939,916; Nov. 9; Sp. p. 3230; Gaz. vol. 148; p. 532.  
 Fan. L. J. Wing. No. 941,834; Nov. 30; Sp. p. 7462; Gaz. vol. 148; p. 1254.  
 Fan air-spreader, Electric. N. S. Hillyard. No. 915,178; Mar. 16; Sp. p. 3157; Gaz. vol. 140; p. 553.  
 Fan and pump, Centrifugal. G. M. Capell. No. 912,362; Feb. 16; Sp. p. 2763; Gaz. vol. 139; p. 503.  
 Fan-blade socket. J. Russel. No. 925,030; June 15; Sp. p. 4153; Gaz. vol. 143; p. 706.  
 Fan, Blast-. F. F. Landis. No. 918,559; Apr. 20; Sp. p. 3260; Gaz. vol. 141; p. 594.  
 Fan-blast regulator. O. Anderson. No. 908,535; Jan. 5; Sp. p. 219; Gaz. vol. 138; p. 37.  
 Fan-blower. A. T. Noe. No. 918,894; Apr. 20; Sp. p. 4032; Gaz. vol. 141; p. 708.  
 Fan-blower. D. J. Bemiller. No. 927,319; July 6; Sp. p. 1251; Gaz. vol. 144; p. 206.  
 Fan-casing and the pedestal or bracket which carries the bearings for the fan-wheel shaft. S. C. Davidson. No. 929,567; July 27; Sp. p. 5903; Gaz. vol. 144; p. 1037.  
 Fan, Centrifugal. A. J. Bowie, Jr. No. 909,863; Jan. 19; Sp. p. 2875; Gaz. vol. 138; p. 537.  
 Fan deflector, Electric. M. M. Wood. No. 910,760; Jan. 26; Sp. p. 4778; Gaz. vol. 138; p. 864.  
 Fan, Electric. A. T. Hoevet. No. 914,413; Mar. 9; Sp. p. 1618; Gaz. vol. 140; p. 276.  
 Fan, Electric. F. Diehl and A. F. Becker. No. 924,601; June 8; Sp. p. 3237; Gaz. vol. 143; p. 528.  
 Fan, Electric-motor. N. A. Locke. No. 939,723; Nov. 9; Sp. p. 2809; Gaz. vol. 148; p. 465.  
 Fan for mines, Ventilating-. W. D. Scott. No. 921,744; May 18; Sp. p. 3394; Gaz. vol. 142; p. 605.  
 Fan for sewing-machines and the like. W. P. Tippitt. No. 932,832; Aug. 31; Sp. p. 6783; Gaz. vol. 145; p. 1163.  
 Fan, Motor-driven. H. M. Shedd. No. 930,622; Aug. 10; Sp. p. 2057; Gaz. vol. 145; p. 360.  
 Fan or blower, Electrically-driven. E. J. McDuffee. No. 919,623; Apr. 27; Sp. p. 5723; Gaz. vol. 141; p. 984.  
 Fan or pump, Centrifugal. J. W. Kellogg. No. 912,133; Feb. 9; Sp. p. 2263; Gaz. vol. 139; p. 392.  
 Fan, pump, and the like, Centrifugal. J. Kirby. No. 939,140; Nov. 2; Sp. p. 1464; Gaz. vol. 148; p. 238.  
 Fan, Rotary. E. Glantzberg. No. 925,327; June 15; Sp. p. 4699; Gaz. vol. 143; p. 802.  
 Fan, Rotary. C. M. Spalding. No. 930,701; Aug. 10; Sp. p. 2216; Gaz. vol. 145; p. 386.  
 Fan, Rotary. J. Keith. No. 935,114; Sept. 28; Sp. p. 4319; Gaz. vol. 146; p. 770.  
 Fan, Spring-. D. Roberti. No. 936,668; Oct. 12; Sp. p. 2254; Gaz. vol. 147; p. 375.  
 Fan, Suction-. W. E. and J. H. Watson. No. 923,914; June 8; Sp. p. 1813; Gaz. vol. 143; p. 302.  
 Fan support, Electric. E. C. Lipps. No. 919,898; Apr. 27; Sp. p. 6300; Gaz. vol. 141; p. 1076.  
 Fan system of heating, Automatic. C. C. Peck. No. 917,483; Apr. 6; Sp. p. 1031; Gaz. vol. 141; p. 180.  
 Fan, Traveling. F. B. Thilow. No. 909,039; Jan. 5; Sp. p. 1234; Gaz. vol. 138; p. 198.  
 Fans, Blade of centrifugal. O. B. Jacobsen. No. 939,136; Nov. 2; Sp. p. 1455; Gaz. vol. 148; p. 237.  
 Fanning-mill. L. O. Hage. No. 931,060; Aug. 17; Sp. p. 3032; Gaz. vol. 145; p. 532.  
 Fare-box. G. B. Kohler. No. 917,616; Apr. 6; Sp. p. 1270; Gaz. vol. 141; p. 224.  
 Fare-box. J. Quinn. No. 940,727; Nov. 23; Sp. p. 5066; Gaz. vol. 148; p. 865.  
 Fare-box, Registering. C. E. Gierding. No. 914,821; Mar. 9; Sp. p. 2450; Gaz. vol. 140; p. 410.  
 Fare-collecting apparatus. J. H. Coleman. No. 913,698; Mar. 2; Sp. p. 39; Gaz. vol. 140; p. 9.  
 Fare-collecting box. H. W. Charlton. No. 918,963; Apr. 20; Sp. p. 4184; Gaz. vol. 141; p. 731.  
 Fare-collector. J. H. Coleman. No. 927,451; July 6; Sp. p. 1510; Gaz. vol. 144; p. 250.  
 Fare indicator and register. H. E. Sayer. No. 935,273; Sept. 28; Sp. p. 4622; Gaz. vol. 146; p. 821.  
 Fare receipt, Railway cash-. G. M. Rose, Jr. No. 920,182; May 4; Sp. p. 176; Gaz. vol. 142; p. 28.  
 Fare-recorder. F. Batt. No. 939,789; Nov. 9; Sp. p. 2959; Gaz. vol. 148; p. 487.  
 Fare-register. J. Linhardt. No. 909,625; Jan. 12; Sp. p. 2409; Gaz. vol. 138; p. 426.  
 Fare-register. J. F. Ohmer. No. 911,518; Feb. 2; Sp. p. 937; Gaz. vol. 139; p. 164.  
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 Fare-register. R. C. Adams. No. 917,834; Apr. 13; Sp. p. 1751; Gaz. vol. 141; p. 322.  
 Fare-register. L. Ehrlich. No. 922,867; May 25; Sp. p. 5713; Gaz. vol. 142; p. 1000.  
 Fare-register. L. Ehrlich. No. 922,868; May 25; Sp. p. 5731; Gaz. vol. 142; p. 1000.  
 Fare-register. I. E. Work. No. 932,082; Aug. 24; Sp. p. 5231; Gaz. vol. 145; p. 892.  
 Fare-register. J. F. Ohmer. No. 937,220; Oct. 19; Sp. p. 3372; Gaz. vol. 147; p. 585.  
 Fare register and recorder. J. F. Ohmer and E. H. Bridenbaugh. No. 911,520; Feb. 2; Sp. p. 946; Gaz. vol. 139; p. 165.  
 Fare register and recorder. W. I. Ohmer. No. 921,276; May 11; Sp. p. 2407; Gaz. vol. 142; p. 422.  
 Fare register and recorder. W. I. Ohmer. No. 923,692; June 1; Sp. p. 1275; Gaz. vol. 143; p. 198.  
 Fare-register, Means for electrically operating the operating mechanism of a. J. F. Ohmer. No. 911,519; Feb. 2; Sp. p. 942; Gaz. vol. 139; p. 164.  
 Farm-gate. G. A. Manfull. No. 926,345; June 29; Sp. p. 6825; Gaz. vol. 143; p. 1201.  
 Farm-gate. D. C. Hinds. No. 929,431; July 27; Sp. p. 5659; Gaz. vol. 144; p. 994.  
 Farm-gate. P. R. Graham. No. 933,552; Sept. 7; Sp. p. 1214; Gaz. vol. 146; p. 177.  
 Farm-gate. J. W. Lyon. No. 937,681; Oct. 19; Sp. p. 4324; Gaz. vol. 147; p. 737.  
 Farming implement. D. A. Ruffin. No. 917,144; Apr. 6; Sp. p. 384; Gaz. vol. 141; p. 67.  
 Farming implement. T. J. King. No. 932,785; Aug. 31; Sp. p. 6696; Gaz. vol. 145; p. 1149.  
 Farming implement, Combination. R. H. Powell. No. 910,149; Jan. 19; Sp. p. 3458; Gaz. vol. 138; p. 632.  
 Farrier's implement. W. Rawalt. No. 940,478; Nov. 16; Sp. p. 4517; Gaz. vol. 148; p. 756.  
 Farrier's tool. A. I. Merrifield. No. 927,990; July 13; Sp. p. 2376; Gaz. vol. 144; p. 456.  
 Fastener. A. C. Leahy. No. 928,163; July 13; Sp. p. 3002; Gaz. vol. 144; p. 513.  
 Fastener. K. Green. No. 934,165; Sept. 14; Sp. p. 2447; Gaz. vol. 146; p. 402.  
 Fastener. J. A. Simpson. No. 941,542; Nov. 30; Sp. p. 6822; Gaz. vol. 148; p. 1155.  
 Fastener. C. A. Conrad. No. 941,977; Nov. 30; Sp. p. 7740; Gaz. vol. 148; p. 1304.  
 Fastener. F. D. Broga. No. 942,129; Dec. 7; Sp. p. 218; Gaz. vol. 149; p. 33.  
 Fastener. W. A. Wall. No. 944,225; Dec. 21; Sp. p. 4687; Gaz. vol. 149; p. 803.  
 Fastener and seal, Combined. C. W. Gill. No. 911,972; Feb. 9; Sp. p. 1941; Gaz. vol. 139; p. 340.  
 Fastener for hinged closures, Adjustable. J. Jenks. No. 934,180; Sept. 14; Sp. p. 2470; Gaz. vol. 146; p. 407.  
 Fastener, Safety-. G. F. Powell. No. 924,104; June 8; Sp. p. 2162; Gaz. vol. 143; p. 361.  
 Fastener, Separable. J. E. and F. W. McConnell. No. 936,148; Oct. 5; Sp. p. 1155; Gaz. vol. 147; p. 175.  
 Fastener, Separable. S. A. Asquith. No. 940,917; Nov. 23; Sp. p. 5465; Gaz. vol. 148; p. 926.  
 Fastener-setting machine. W. E. Bennett. No. 939,200; Nov. 9; Sp. p. 1618; Gaz. vol. 148; p. 236.  
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 Fastening. Concealed. E. A. Faller. No. 918,522; Apr. 20; Sp. p. 3178; Gaz. vol. 141; p. 583.  
 Fastening device. P. E. Hocquard, J. C. and I. H. Beach. No. 916,706; Mar. 30; Sp. p. 6185; Gaz. vol. 140; p. 1107.  
 Fastening device. F. S. Carr. No. 916,995; Apr. 6; Sp. p. 58; Gaz. vol. 141; p. 14.  
 Fastening device. W. Favreau. No. 920,044; Apr. 27; Sp. p. 6602; Gaz. vol. 141; p. 1123.  
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 Fastening device. W. M. Wheelidon. No. 924,710; June 15; Sp. p. 3475; Gaz. vol. 143; p. 598.  
 Fastening device. G. W. Hoover. No. 925,189; June 15; Sp. p. 4457; Gaz. vol. 143; p. 760.  
 Fastening device. E. A. Reeves. No. 925,596; June 22; Sp. p. 5231; Gaz. vol. 143; p. 920.  
 Fastening device. F. H. Richards. No. 926,768; July 6; Sp. p. 124; Gaz. vol. 144; p. 20.  
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 Fastening device. W. M. Wheelidon. No. 929,063; July 27; Sp. p. 4887; Gaz. vol. 144; p. 872.  
 Fastening device. R. E. Layman and J. A. Bouthillier. No. 931,131; Aug. 17; Sp. p. 3170; Gaz. vol. 145; p. 555.  
 Fastening device. G. S. Greenleaf. No. 931,754; Aug. 24; Sp. p. 4512; Gaz. vol. 145; p. 785.  
 Fastening device. C. W. Stark. No. 942,470; Dec. 7; Sp. p. 928; Gaz. vol. 149; p. 150.  
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 Fastening device. A. C. and W. D. Olander. No. 944,461; Dec. 28; Sp. p. 5221; Gaz. vol. 149; p. 914.  
 Fastening device. W. S. Katzenmeyer. No. 944,788; Dec. 28; Sp. p. 5943; Gaz. vol. 149; p. 1025.  
 Fastening device and fence-post, Combined. I. L. Sales. No. 917,154; Apr. 6; Sp. p. 401; Gaz. vol. 141; p. 70.  
 Fastening-driving machine. L. A. Casgrain. No. 932,535; Aug. 31; Sp. p. 6140; Gaz. vol. 145; p. 1066.  
 Fastening for loops and the like. W. M. Jones and H. Stewart. No. 942,330; Dec. 7; Sp. p. 638; Gaz. vol. 149; p. 102.  
 Fastening-inserting machine. F. H. Perry. No. 910,147; Jan. 19; Sp. p. 3448; Gaz. vol. 138; p. 632.  
 Fastening-inserting machine. A. Bates and H. P. Gamble. No. 922,447; May 25; Sp. p. 4832; Gaz. vol. 142; p. 863.  
 Fastening, Self-locking. G. Adams. No. 931,665; Aug. 17; Sp. p. 4284; Gaz. vol. 145; p. 732.  
 Fastenings, Machine for inserting metallic. M. D. Phelan. No. 944,275; Dec. 28; Sp. p. 4793; Gaz. vol. 149; p. 848.  
 Fatty substances from fresh (unbroken) oil-fruits, moist raw wool, &c., Extracting. F. Frank. No. 915,169; Mar. 16; Sp. p. 3137; Gaz. vol. 140; p. 550.  
 Faucet. J. J. Fitzgibbon and J. M. Travis. No. 911,000; Jan. 26; Sp. p. 5223; Gaz. vol. 138; p. 941.  
 Faucet. W. C. Winfield. No. 914,473; Mar. 9; Sp. p. 1729; Gaz. vol. 140; p. 296.  
 Faucet. C. A. Pride. No. 916,591; Mar. 30; Sp. p. 5974; Gaz. vol. 140; p. 1072.  
 Faucet. O. Warnock. No. 917,689; Apr. 6; Sp. p. 1410; Gaz. vol. 141; p. 248.  
 Faucet. J. C. H. Voelcker. No. 918,714; Apr. 20; Sp. p. 3659; Gaz. vol. 141; p. 648.  
 Faucet. G. T. Kenly. No. 925,436; June 15; Sp. p. 4907; Gaz. vol. 143; p. 837.  
 Faucet. J. B. Woodworth. No. 926,713; June 29; Sp. p. 7521; Gaz. vol. 143; p. 1323.  
 Faucet. M. J. Ryan. No. 927,880; July 13; Sp. p. 2455; Gaz. vol. 144; p. 420.  
 Faucet. H. M. Alderfer. No. 928,095; July 13; Sp. p. 2874; Gaz. vol. 144; p. 490.  
 Faucet. J. H. Glauber. No. 928,378; July 20; Sp. p. 3502; Gaz. vol. 144; p. 619.  
 Faucet. R. Bell. No. 931,252; Aug. 17; Sp. p. 3442; Gaz. vol. 145; p. 597.  
 Faucet. J. P. Urbanek. No. 931,528; Aug. 17; Sp. p. 4004; Gaz. vol. 145; p. 690.  
 Faucet. T. Davis. No. 931,732; Aug. 24; Sp. p. 4469; Gaz. vol. 145; p. 778.  
 Faucet. J. J. Marcus. No. 931,880; Aug. 24; Sp. p. 4769; Gaz. vol. 145; p. 825.  
 Faucet. M. Bachrach. No. 932,747; Aug. 31; Sp. p. 6597; Gaz. vol. 145; p. 1137.  
 Faucet. J. J. Smith, J. W. Ghiglietti, and G. W. Ingersoll. No. 934,101; Sept. 14; Sp. p. 2312; Gaz. vol. 146; p. 379.  
 Faucet. E. M. and M. Deiller. No. 937,513; Oct. 19; Sp. p. 4017; Gaz. vol. 147; p. 682.  
 Faucet. W. F. Oden. No. 937,541; Oct. 19; Sp. p. 4078; Gaz. vol. 147; p. 693.  
 Faucet. J. Palasca. No. 940,522; Nov. 16; Sp. p. 4619; Gaz. vol. 148; p. 770.  
 Faucet. A. J. Robinson. No. 940,556; Nov. 16; Sp. p. 4695; Gaz. vol. 148; p. 781.  
 Faucet. T. O. Thompson. No. 941,210; Nov. 23; Sp. p. 6110; Gaz. vol. 148; p. 1025.  
 Faucet. H. Forsman. No. 943,346; Dec. 14; Sp. p. 2832; Gaz. vol. 149; p. 476.  
 Faucet. A. Engel. No. 943,526; Dec. 14; Sp. p. 3204; Gaz. vol. 149; p. 539.  
 Faucet and combination thereof. F. J. Firth. No. 914,400; Mar. 9; Sp. p. 1595; Gaz. vol. 140; p. 272.  
 Faucet and hose-coupling. H. P. Towle. No. 939,931; Nov. 9; Sp. p. 3263; Gaz. vol. 148; p. 538.  
 Faucet and spigot attachment. J. E. McLean. No. 939,069; Nov. 2; Sp. p. 1320; Gaz. vol. 148; p. 214.  
 Faucet attachment. V. A. Speakman. No. 918,788; Apr. 20; Sp. p. 3786; Gaz. vol. 141; p. 672.  
 Faucet, Automatic. A. P. Tallmadge. No. 916,499; Mar. 30; Sp. p. 5788; Gaz. vol. 140; p. 1042.  
 Faucet. Beer. F. E. Brueckner. No. 919,124; Apr. 20; Sp. p. 4474; Gaz. vol. 141; p. 781.  
 Faucet. Beer. T. Davis. No. 940,438; Nov. 16; Sp. p. 4440; Gaz. vol. 148; p. 742.  
 Faucet, Bottle-filling. D. D. Nolley. No. 941,268; Nov. 23; Sp. p. 6227; Gaz. vol. 148; p. 1044.  
 Faucet, Bung. A. A. Bowser. No. 920,908; May 11; Sp. p. 1668; Gaz. vol. 142; p. 297.  
 Faucet, Compound. F. B. Hunter. No. 938,868; Nov. 2; Sp. p. 913; Gaz. vol. 143; p. 144.  
 Faucet, Dispensing. E. E. Murphy. No. 920,612; May 4; Sp. p. 1048; Gaz. vol. 142; p. 170.  
 Faucet, Electrically-heated water. F. A. Robinson. No. 927,755; July 13; Sp. p. 2188; Gaz. vol. 144; p. 379.  
 Faucet-filter. C. Mackintosh. No. 915,616; Mar. 16; Sp. p. 4038; Gaz. vol. 140; p. 698.  
 Faucet for cheese apparatus. J. Brenske. No. 941,694; Nov. 30; Sp. p. 7140; Gaz. vol. 148; p. 1205.  
 Faucet hose-coupling. H. P. Towle. No. 939,932; Nov. 9; Sp. p. 3265; Gaz. vol. 148; p. 538.  
 Faucet-index. J. H. Glauber. No. 922,676; May 25; Sp. p. 5105; Gaz. vol. 142; p. 906.  
 Faucet, Jewel-cup. D. B. Lee. No. 919,602; Apr. 27; Sp. p. 5684; Gaz. vol. 141; p. 977.  
 Faucet, Measuring. M. Koeniges. No. 933,255; Sept. 7; Sp. p. 519; Gaz. vol. 146; p. 79.  
 Faucet or street-washer, Antifreezing. J. H. Harrett. No. 925,047; July 13; Sp. p. 2802; Gaz. vol. 144; p. 477.  
 Faucet or valve device for washbasins and the like. T. A. Hasek. No. 943,404; Dec. 14; Sp. p. 2940; Gaz. vol. 149; p. 495.  
 Faucet, Quick-closing. H. F. Schroeder. No. 926,024; June 22; Sp. p. 6143; Gaz. vol. 143; p. 1060.  
 Faucet, Safety-. R. P. Wilton. No. 927,308; July 6; Sp. p. 1232; Gaz. vol. 144; p. 203.  
 Faucet, Self-closing. P. W. Doherty. No. 912,091; Feb. 9; Sp. p. 2191; Gaz. vol. 139; p. 379.  
 Faucet, tap, valve, ball-cock, &c. T. Crowe. No. 918,288; Apr. 13; Sp. p. 2700; Gaz. vol. 141; p. 478.  
 Faucet, Time-. E. E. Beardsey and P. E. Carmody. No. 927,700; July 13; Sp. p. 2091; Gaz. vol. 144; p. 363.  
 Faucet, Water-. W. B. M. Bashlin. No. 937,221; Oct. 19; Sp. p. 3373; Gaz. vol. 147; p. 585.  
 Faultfinder. T. E. Anderson. No. 934,874; Sept. 21; Sp. p. 3813; Gaz. vol. 146; p. 661.  
 Feather-stock. J. E. Snevely. No. 926,219; June 29; Sp. p. 6582; Gaz. vol. 143; p. 1162.  
 Feed and litter carrier. H. J. Ferris. No. 913,881; Mar. 2; Sp. p. 450; Gaz. vol. 140; p. 73.  
 Feed and litter carrier. H. L. Ferris. No. 924,154; June 8; Sp. p. 2311; Gaz. vol. 143; p. 379.  
 Feed and water-heater. Boiler-. D. Goff. No. 932,777; Aug. 31; Sp. p. 6683; Gaz. vol. 145; p. 1147.  
 Feed, Automatic spring-tension. W. Paterson. No. 926,508; June 29; Sp. p. 7109; Gaz. vol. 143; p. 1255.  
 Feed-bag. A. Thiel. No. 908,518; Jan. 5; Sp. p. 174; Gaz. vol. 138; p. 31.  
 Feed-bag. K. L. W. Grasnicks. No. 912,952; Feb. 16; Sp. p. 3976; Gaz. vol. 139; p. 700.  
 Feed-bag. A. R. Hoffmann. No. 913,727; Mar. 2; Sp. p. 104; Gaz. vol. 140; p. 18.  
 Feed-bag. R. J. Brooks. No. 917,534; Apr. 6; Sp. p. 1127; Gaz. vol. 141; p. 197.  
 Feed-bag. A. Harries. No. 918,538; Apr. 20; Sp. p. 3218; Gaz. vol. 141; p. 588.  
 Feed-bag. A. Kovacs and A. Csupák. No. 923,859; June 8; Sp. p. 1710; Gaz. vol. 143; p. 284.  
 Feed-bag. E. Graff. No. 925,434; June 15; Sp. p. 4904; Gaz. vol. 143; p. 837.  
 Feed-bag. W. J. Rayburn. No. 927,073; July 6; Sp. p. 789; Gaz. vol. 144; p. 126.  
 Feed-bag. D. L. Toland. No. 927,193; July 6; Sp. p. 1021; Gaz. vol. 144; p. 165.  
 Feed-bag. N. F. Abel. No. 936,975; Oct. 12; Sp. p. 2849; Gaz. vol. 147; p. 475.  
 Feed-bag. T. Brennan. No. 939,971; Nov. 16; Sp. p. 3347; Gaz. vol. 148; p. 579.  
 Feed-bag support. E. S. Elliot. No. 912,548; Feb. 16; Sp. p. 3160; Gaz. vol. 139; p. 567.  
 Feed-bag supporter. J. E. Colgan. No. 910,644; Jan. 26; Sp. p. 4552; Gaz. vol. 138; p. 828.  
 Feed-bag supporter, Triple-. E. J. Colgan. No. 925,624; June 22; Sp. p. 5286; Gaz. vol. 143; p. 929.  
 Feed-box. J. M. Hannibal. No. 920,865; May 4; Sp. p. 1562; Gaz. vol. 142; p. 252.  
 Feed-box. A. D. Myers. No. 939,533; Nov. 9; Sp. p. 2399; Gaz. vol. 148; p. 398.  
 Feed-box and driver's back-rest. Combination. J. J. Moriarty. No. 938,069; Oct. 26; Sp. p. 5157; Gaz. vol. 147; p. 885.  
 Feed-box and manger, Combined. J. E. Thompson. No. 913,175; Feb. 23; Sp. p. 4437; Gaz. vol. 139; p. 800.  
 Feed-crusher. J. L. Gibson. No. 923,966; June 8; Sp. p. 1909; Gaz. vol. 143; p. 319.



*Alphabetical list of inventions—Continued.*

- Feed-cup. J. M. Pierce. No. 924,377; June 8; Sp. p. 2802; Gaz. vol. 143; p. 455.  
 Feed-cutter. W. Thurman. No. 935,947; Oct. 5; Sp. p. 740; Gaz. vol. 147; p. 110.  
 Feed device. J. H. Adams. No. 937,017; Oct. 12; Sp. p. 2940; Gaz. vol. 147; p. 489.  
 Feed-grinder. F. G. Hobart and W. E. Reuling. No. 935,985; Oct. 5; Sp. p. 820; Gaz. vol. 147; p. 122.  
 Feed heater and trough. Combined. B. J. Butler. No. 930,458; Aug. 10; Sp. p. 1681; Gaz. vol. 145; p. 304.  
 Feed mechanism. F. H. Richards. No. 919,233; Apr. 20; Sp. p. 4810; Gaz. vol. 141; p. 816.  
 Feed mechanism. F. H. Richards. No. 919,234; Apr. 20; Sp. p. 4817; Gaz. vol. 141; p. 816.  
 Feed mechanism, Device for mechanically regulating. B. M. W. Hanson. No. 909,892; Jan. 19; Sp. p. 2940; Gaz. vol. 138; p. 547.  
 Feed mechanism, Differential positive-. R. Milne. No. 940,342; Nov. 16; Sp. p. 4209; Gaz. vol. 145; p. 709.  
 Feed mechanism, Electrically-controlled. B. M. W. Hanson. No. 915,671; Mar. 16; Sp. p. 4172; Gaz. vol. 140; p. 719.  
 Feed-mill. R. S. Tomkinson. No. 909,348; Jan. 12; Sp. p. 1862; Gaz. vol. 138; p. 334.  
 Feed-mixer. J. S. Kilpatrick. No. 913,399; Feb. 23; Sp. p. 4889; Gaz. vol. 139; p. 876.  
 Feed-mixing machine. C. Dabney. No. 923,248; June 1; Sp. p. 266; Gaz. vol. 143; p. 44.  
 Feed-mixing machine. T. C. Manning. No. 937,623; Oct. 19; Sp. p. 4222; Gaz. vol. 147; p. 719.  
 Feed-motion device. F. J. Waters. No. 926,915; July 6; Sp. p. 442; Gaz. vol. 144; p. 71.  
 Feed-obtaining apparatus, Measured-. J. A. Swindell. No. 917,378; Apr. 6; Sp. p. 853; Gaz. vol. 141; p. 146.  
 Feed-rack. J. F. Withrow. No. 914,001; Mar. 2; Sp. p. 730; Gaz. vol. 140; p. 116.  
 Feed-regulator. G. H. Barney. No. 915,539; Mar. 16; Sp. p. 3872; Gaz. vol. 140; p. 671.  
 Feed-regulator. G. D. Scheffler. No. 922,725; May 25; Sp. p. 5408; Gaz. vol. 142; p. 953.  
 Feed-regulator. G. Brady and H. F. Abbott. No. 929,279; July 27; Sp. p. 5356; Gaz. vol. 144; p. 943.  
 Feed-regulator. C. M. Hall and G. P. Holmes. No. 931,195; Aug. 17; Sp. p. 3320; Gaz. vol. 145; p. 578.  
 Feed-regulator. C. M. Hall and G. P. Holmes. No. 931,196; Aug. 17; Sp. p. 3322; Gaz. vol. 145; p. 578.  
 Feed-regulator. R. B. Coltrin. No. 932,110; Aug. 24; Sp. p. 5290; Gaz. vol. 145; p. 902.  
 Feed-regulator. W. Baker. No. 932,944; Aug. 31; Sp. p. 6987; Gaz. vol. 145; p. 1200.  
 Feed-regulator. G. D. Scheffler. No. 940,943; Nov. 23; Sp. p. 5526; Gaz. vol. 148; p. 935.  
 Feed-roll. F. T. McDonough. No. 936,250; Oct. 5; Sp. p. 1336; Gaz. vol. 147; p. 205.  
 Feed, System of boiler-. T. R. Brown. No. 924,141; June 8; Sp. p. 2258; Gaz. vol. 143; p. 374.  
 Feed-trip mechanism, Automatic. C. L. Libby. No. 917,320; Apr. 6; Sp. p. 749; Gaz. vol. 141; p. 128.  
 Feed-trough and exercising device for fowls. G. M. Link. No. 917,625; Apr. 6; Sp. p. 1289; Gaz. vol. 141; p. 228.  
 Feed-water heater. R. L. Vosburgh. No. 921,756; May 18; Sp. p. 3420; Gaz. vol. 142; p. 609.  
 Feed-water heater. W. W. Grindle and J. S. Sweeny. No. 928,962; July 27; Sp. p. 4672; Gaz. vol. 144; p. 838.  
 Feed-water heater. J. S. Sweeny and W. W. Grindle. No. 929,050; July 27; Sp. p. 4852; Gaz. vol. 144; p. 867.  
 Feed-water heater. W. S. Ferguson. No. 931,046; Aug. 17; Sp. p. 2990; Gaz. vol. 145; p. 527.  
 Feed-water heater. J. Pollock. No. 932,810; Aug. 31; Sp. p. 6744; Gaz. vol. 145; p. 1157.  
 Feed-water heater. J. W. Currie. No. 934,393; Sept. 14; Sp. p. 2871; Gaz. vol. 146; p. 479.  
 Feed-water heater. J. H. Streich. No. 936,134; Oct. 5; Sp. p. 1228; Gaz. vol. 147; p. 185.  
 Feed-water heater. H. Etheridge. No. 938,134; Oct. 26; Sp. p. 5303; Gaz. vol. 147; p. 907.  
 Feed-water heater. G. H. Gibson. No. 938,573; Nov. 2; Sp. p. 299; Gaz. vol. 148; p. 44.  
 Feed-water heater and purifier. J. W. Gamble. No. 926,109; June 29; Sp. p. 6328; Gaz. vol. 143; p. 1124.  
 Feed-water heater and separator. W. S. Hollowell and J. W. Gamble. No. 926,115; June 29; Sp. p. 6339; Gaz. vol. 143; p. 1125.  
 Feed-water injectors, Attachment for. C. Phillips. No. 939,310; Nov. 9; Sp. p. 1907; Gaz. vol. 148; p. 325.  
 Feed-water into steam-boilers, Means for introducing. C. W. Seddon. No. 929,716; Aug. 3; Sp. p. 161; Gaz. vol. 145; p. 29.  
 Feed-water purifier. J. Patten. No. 918,586; Apr. 20; Sp. p. 3314; Gaz. vol. 141; p. 603.  
 Feed-water purifier. J. Wood, Jr. No. 932,660; Aug. 31; Sp. p. 6423; Gaz. vol. 145; p. 1108.  
 Feed-water purifier. T. Grieve. No. 939,110; Nov. 2; Sp. p. 1212; Gaz. vol. 148; p. 193.  
 Feed-water regulator. H. Evans. No. 932,007; Aug. 24; Sp. p. 5076; Gaz. vol. 145; p. 868.  
 Feed-water regulator. J. W. Given and J. L. Fogg. No. 935,651; Oct. 5; Sp. p. 51; Gaz. vol. 147; p. 10.  
 Feed-water regulator. C. Brent. No. 939,889; Nov. 9; Sp. p. 3163; Gaz. vol. 148; p. 521.  
 Feeder and exerciser, Poultry. E. W. Franklin. No. 943,822; Dec. 21; Sp. p. 3848; Gaz. vol. 149; p. 669.  
 Feeder, Automatic. G. L. Poh. No. 928,400; July 20; Sp. p. 3542; Gaz. vol. 144; p. 626.  
 Feeder, Boiler-. C. A. Jessop. No. 933,461; Sept. 7; Sp. p. 972; Gaz. vol. 146; p. 147.  
 Feeder, Boiler-. J. F. Senter. No. 934,845; Sept. 21; Sp. p. 3763; Gaz. vol. 146; p. 653.  
 Feeder, Boiler-. V. P. McVoy. No. 944,574; Dec. 28; Sp. p. 5492; Gaz. vol. 149; p. 953.  
 Feeder, Poultry-. J. W. Harper. No. 914,720; Mar. 9; Sp. p. 2246; Gaz. vol. 140; p. 377.  
 Feeder, Poultry-. J. R. Ryan. No. 938,342; Oct. 26; Sp. p. 5753; Gaz. vol. 147; p. 979.  
 Feeder, Poultry and hen. J. D. O'Connell. No. 920,381; May 4; Sp. p. 596; Gaz. vol. 142; p. 95.  
 Feeder, Stock-. C. A. Wright. No. 920,806; May 4; Sp. p. 1448; Gaz. vol. 142; p. 234.  
 Feeder, Stock-. J. Z. Loop and G. R. J. Newman. No. 940,540; Nov. 16; Sp. p. 4658; Gaz. vol. 148; p. 776.  
 Feeding and watering device. A. C. Marsom. No. 937,947; Oct. 26; Sp. p. 4893; Gaz. vol. 147; p. 845.  
 Feeding apparatus. A. R. Hoffmann. No. 936,129; Oct. 5; Sp. p. 1117; Gaz. vol. 147; p. 170.  
 Feeding apparatus, Stock-. F. T. English. No. 931,742; Aug. 24; Sp. p. 4486; Gaz. vol. 145; p. 781.  
 Feeding device, Automatic stock-. L. A. Roggensack. No. 938,608; Nov. 2; Sp. p. 375; Gaz. vol. 148; p. 56.  
 Feeding device for horses, Street. V. A. Croschier. No. 924,435; June 8; Sp. p. 2889; Gaz. vol. 143; p. 473.  
 Feeding device for machine-tools, &c. C. A. Hirth. No. 909,300; Jan. 12; Sp. p. 1773; Gaz. vol. 138; p. 319.  
 Feeding harnessed draft-animals. W. H. and J. H. Granbery. No. 931,596; Aug. 17; Sp. p. 4123; Gaz. vol. 145; p. 710.  
 Feeding live stock, Apparatus for. D. W. Wright. No. 933,940; Sept. 14; Sp. p. 1992; Gaz. vol. 146; p. 328.  
 Feeding mechanism. O. C. Hill. No. 913,134; Feb. 23; Sp. p. 4353; Gaz. vol. 139; p. 787.  
 Feeding mechanism. F. Waite. No. 913,299; Mar. 2; Sp. p. 560; Gaz. vol. 140; p. 90.  
 Feeding mechanism. W. E. Swanger and E. P. Hueber. No. 922,355; May 18; Sp. p. 4619; Gaz. vol. 142; p. 803.  
 Feeding mechanism. C. von Philip. No. 924,103; June 8; Sp. p. 2160; Gaz. vol. 143; p. 361.  
 Feeding mechanism. B. M. W. Hanson. No. 940,929; Nov. 23; Sp. p. 5487; Gaz. vol. 148; p. 930.  
 Feeding milk to calves, Device for. M. I. Goldman. No. 921,231; May 11; Sp. p. 2324; Gaz. vol. 142; p. 409.  
 Feeding water to flash-boilers, Automatic regulating means for. J. D. MacLachan. No. 922,790; May 25; Sp. p. 5548; Gaz. vol. 142; p. 974.  
 Fellies, Making wheel-. M. Conrad. No. 925,868; June 22; Sp. p. 5840; Gaz. vol. 143; p. 1010.  
 Felly for wheels with pneumatic tires. T. Bruckner. No. 925,560; June 22; Sp. p. 5152; Gaz. vol. 143; p. 908.  
 Felt-brushing machine. J. B. Wolfsoff. No. 915,525; Mar. 16; Sp. p. 3830; Gaz. vol. 140; p. 666.  
 Fence. E. Craig. No. 910,459; Jan. 19; Sp. p. 4143; Gaz. vol. 138; p. 743.  
 Fence. J. L. Noll. No. 910,950; Jan. 26; Sp. p. 5134; Gaz. vol. 138; p. 925.  
 Fence. B. Trebilcock. No. 916,228; Mar. 23; Sp. p. 5237; Gaz. vol. 140; p. 925.  
 Fence. L. S. Lachman. No. 917,461; Apr. 6; Sp. p. 995; Gaz. vol. 141; p. 173.  
 Fence. T. W. King. No. 935,522; Sept. 28; Sp. p. 5130; Gaz. vol. 146; p. 902.  
 Fence-assembling apparatus. R. C. and W. A. Stewart. No. 929,045; July 27; Sp. p. 4843; Gaz. vol. 144; p. 866.  
 Fence, Baby-. R. H. Villard. No. 915,131; Mar. 16; Sp. p. 3075; Gaz. vol. 140; p. 539.  
 Fence-brace. G. Schneider. No. 942,592; Dec. 7; Sp. p. 1167; Gaz. vol. 149; p. 190.  
 Fence builder, Wire-. W. S. Hazelton. No. 925,905; June 22; Sp. p. 5912; Gaz. vol. 143; p. 1021.  
 Fence-clamp. P. Green. No. 930,957; Aug. 10; Sp. p. 2758; Gaz. vol. 145; p. 469.  
 Fence-clamp. B. F. Nummy. No. 937,260; Oct. 19; Sp. p. 3471; Gaz. vol. 147; p. 599.  
 Fence-clamp. A. C. Harrison. No. 939,835; Nov. 9; Sp. p. 3049; Gaz. vol. 148; p. 503.  
 Fence-clamp, Woven-wire-. J. Fisher. No. 911,963; Feb. 9; Sp. p. 1916; Gaz. vol. 139; p. 337.  
 Fence-clamp, Woven-wire-. W. N. Squires. No. 931,516; Aug. 17; Sp. p. 3983; Gaz. vol. 145; p. 687.  
 Fence-clamp, Woven-wire-. J. Fisher. No. 938,564; Nov. 2; Sp. p. 285; Gaz. vol. 148; p. 41.  
 Fence construction. S. R. Johnson. No. 916,322; Mar. 23; Sp. p. 5394; Gaz. vol. 140; p. 958.  
 Fence construction. W. M. Rankin. No. 931,486; Aug. 17; Sp. p. 3929; Gaz. vol. 145; p. 678.  
 Fence-dropper and wire-retaining means. C. Cromwell. No. 932,967; Aug. 31; Sp. p. 7024; Gaz. vol. 145; p. 1208.  
 Fence-gate. C. D. Haldeman. No. 908,564; Jan. 5; Sp. p. 277; Gaz. vol. 138; p. 46.  
 Fence-lock. G. H. Farmilo. No. 940,680; Nov. 23; Sp. p. 4967; Gaz. vol. 148; p. 847.  
 Fence-machine. E. T. Boswell. No. 933,054; Sept. 7; Sp. p. 27; Gaz. vol. 146; p. 6.  
 Fence machine, Slat-. J. M. Denning. No. 943,008; Dec. 14; Sp. p. 2109; Gaz. vol. 149; p. 362.  
 Fence machine, Wire-. J. L. Claudin. No. 923,770; June 1; Sp. p. 1444; Gaz. vol. 143; p. 224.  
 Fence machine, Wire-. J. W., P. W., and W. H. Sommer. No. 937,968; Oct. 26; Sp. p. 4930; Gaz. vol. 147; p. 851.  
 Fence machines, Die for wire-. J. Harris. No. 932,122; Aug. 24; Sp. p. 5314; Gaz. vol. 145; p. 906.  
 Fence-making machine, Wire-. J. M. Denning. No. 923,778; June 1; Sp. p. 1481; Gaz. vol. 143; p. 226.

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- Fence-making tool. W. S. Guinter. No. 913,725; Mar. 2; Sp. p. 99; Gaz. vol. 140; p. 18.  
 Fence or other inclosure. A. Josier. No. 936,246; Oct. 5; Sp. p. 1328; Gaz. vol. 147; p. 204.  
 Fence, Portable. C. Wilson. No. 925,256; June 15; Sp. p. 4571; Gaz. vol. 143; p. 781.  
 Fence, Portable baby-. R. H. Villard. No. 913,075; Feb. 23; Sp. p. 4236; Gaz. vol. 139; p. 767.  
 Fence-post. W. H. McWhirter. No. 913,907; Mar. 2; Sp. p. 510; Gaz. vol. 140; p. 82.  
 Fence-post. W. A. Oliphant. No. 914,867; Mar. 9; Sp. p. 2552; Gaz. vol. 140; p. 426.  
 Fence-post. E. E. Metcalf. No. 916,470; Mar. 30; Sp. p. 5719; Gaz. vol. 140; p. 1032.  
 Fence-post. W. O. Kyle. No. 917,083; Apr. 6; Sp. p. 246; Gaz. vol. 141; p. 45.  
 Fence-post. A. Egly. No. 920,935; May 11; Sp. p. 1727; Gaz. vol. 142; p. 306.  
 Fence-post. J. D. Rodgers. No. 922,193; May 18; Sp. p. 4310; Gaz. vol. 142; p. 752.  
 Fence-post. A. W. Sprague. No. 924,505; June 8; Sp. p. 3030; Gaz. vol. 143; p. 495.  
 Fence-post. T. J. Akers and H. E. Smith. No. 926,229; June 29; Sp. p. 6607; Gaz. vol. 143; p. 1166.  
 Fence-post. E. A. Morrill. No. 930,607; Aug. 10; Sp. p. 2027; Gaz. vol. 145; p. 355.  
 Fence-post. J. B. McMillan. No. 930,782; Aug. 10; Sp. p. 2380; Gaz. vol. 145; p. 412.  
 Fence-post. R. Toennes. No. 931,236; Aug. 17; Sp. p. 3412; Gaz. vol. 145; p. 592.  
 Fence-post. F. E. Saunders. No. 931,495; Aug. 17; Sp. p. 3947; Gaz. vol. 145; p. 681.  
 Fence-post. C. M. Reed. No. 936,562; Oct. 12; Sp. p. 2035; Gaz. vol. 147; p. 335.  
 Fence-post. J. O. Mace. No. 940,173; Nov. 16; Sp. p. 3831; Gaz. vol. 148; p. 650.  
 Fence-post. W. B. Hughes. No. 943,550; Dec. 14; Sp. p. 3246; Gaz. vol. 149; p. 547.  
 Fence-post, &c. H. J. Wessels. No. 940,996; Nov. 23; Sp. p. 5621; Gaz. vol. 148; p. 952.  
 Fence-post and anchor therefor. N. Biberstein. No. 912,790; Feb. 16; Sp. p. 3702; Gaz. vol. 139; p. 650.  
 Fence post and wire fastener. J. H. Knickerbocker. No. 913,402; Feb. 23; Sp. p. 4895; Gaz. vol. 139; p. 878.  
 Fence-post brace. W. H. Stephenson. No. 910,026; Jan. 19; Sp. p. 3211; Gaz. vol. 138; p. 593.  
 Fence-post brace. B. B. Ely and C. Flaugh, Jr. No. 934,901; Sept. 21; Sp. p. 3865; Gaz. vol. 146; p. 671.  
 Fence-post, Cement. L. C. Adams. No. 934,423; Sept. 21; Sp. p. 2939; Gaz. vol. 146; p. 513.  
 Fence-post, Cement. J. F. McElroy. No. 937,711; Oct. 19; Sp. p. 4400; Gaz. vol. 147; p. 747.  
 Fence-post, Composition. C. J. Welty. No. 920,888; May 4; Sp. p. 1625; Gaz. vol. 142; p. 259.  
 Fence-post, Concrete. H. L. Ford. No. 911,584; Feb. 9; Sp. p. 1093; Gaz. vol. 139; p. 213.  
 Fence-post, Metallic. F. A. Colver. No. 928,108; July 13; Sp. p. 2899; Gaz. vol. 144; p. 495.  
 Fence-post, Metallic. E. C. Kahn. No. 942,369; Dec. 7; Sp. p. 709; Gaz. vol. 149; p. 115.  
 Fence-post, Metallic. R. Mattice. No. 944,342; Dec. 28; Sp. p. 4944; Gaz. vol. 149; p. 872.  
 Fence-post mold. C. B. Bruner. No. 920,017; Apr. 27; Sp. p. 6523; Gaz. vol. 141; p. 1113.  
 Fence-post mold. P. J. Haas. No. 937,793; Oct. 26; Sp. p. 4583; Gaz. vol. 147; p. 794.  
 Fence post or stay. P. Arendt. No. 938,286; Oct. 26; Sp. p. 5635; Gaz. vol. 147; p. 964.  
 Fence-post staple. J. Darling. No. 941,978; Nov. 30; Sp. p. 7741; Gaz. vol. 148; p. 1304.  
 Fence-post, telegraph-pole, &c. H. L. Stillman. No. 930,432; Aug. 10; Sp. p. 1632; Gaz. vol. 145; p. 295.  
 Fence-posts, Mold for making cement. J. M. Denning. No. 909,875; Jan. 19; Sp. p. 2908; Gaz. vol. 138; p. 541.  
 Fence, Postless. J. H. Sennstrom. No. 936,048; Oct. 5; Sp. p. 952; Gaz. vol. 147; p. 142.  
 Fence, Sectional wire. G. W. Thrasher and W. W. Payne. No. 932,355; Aug. 24; Sp. p. 5759; Gaz. vol. 145; p. 983.  
 Fence, Snow-. H. J. Schweitzer. No. 942,147; Dec. 7; Sp. p. 266; Gaz. vol. 149; p. 40.  
 Fence-staple. C. A. Miller. No. 934,686; Sept. 21; Sp. p. 3452; Gaz. vol. 146; p. 601.  
 Fence stay-wires, Apparatus for applying. W. W. Hardy. No. 920,737; May 4; Sp. p. 1309; Gaz. vol. 142; p. 211.  
 Fence-stretcher. F. D. Haynes and J. A. Cocker. No. 912,845; Feb. 16; Sp. p. 3792; Gaz. vol. 139; p. 667.  
 Fence-stretcher. M. E. Johnson. No. 935,030; Sept. 28; Sp. p. 4131; Gaz. vol. 146; p. 740.  
 Fence-stretcher clamp, Woven-wire-. W. Hopper. No. 913,385; Feb. 23; Sp. p. 4870; Gaz. vol. 139; p. 872.  
 Fence stretcher, Wire-. W. Hopper. No. 913,384; Feb. 23; Sp. p. 4868; Gaz. vol. 139; p. 871.  
 Fence stretcher, Wire-. J. C. Hewitt. No. 923,843; June 8; Sp. p. 1681; Gaz. vol. 143; p. 279.  
 Fence stretchers, Grip for wire-. J. C. Hewitt. No. 923,842; June 8; Sp. p. 1679; Gaz. vol. 143; p. 278.  
 Fence-stretching machine, Wire-. R. O. Frazee. No. 930,541; Aug. 10; Sp. p. 1890; Gaz. vol. 145; p. 334.  
 Fence structure. L. Borth. No. 916,834; Mar. 30; Sp. p. 6407; Gaz. vol. 140; p. 1146.  
 Fence-tie. W. A. Martin. No. 918,569; Apr. 20; Sp. p. 3280; Gaz. vol. 141; p. 597.  
 Fence-tie-forming die. B. A. Garlinghouse. No. 928,377; July 20; Sp. p. 3500; Gaz. vol. 144; p. 619.  
 Fence tie, Wire-. G. A. Scheele. No. 919,476; Apr. 27; Sp. p. 5423; Gaz. vol. 141; p. 933.  
 Fence tool, Wire-. B. B. Wood. No. 919,989; Apr. 27; Sp. p. 6463; Gaz. vol. 141; p. 1104.  
 Fence, Wire. P. W. and W. M. Dillon. No. 908,757; Jan. 5; Sp. p. 699; Gaz. vol. 135; p. 138.  
 Fence, Wire. C. R. Peters. No. 916,192; Mar. 23; Sp. p. 5162; Gaz. vol. 140; p. 914.  
 Fence, Wire. L. S. Lachman. No. 917,617; Apr. 6; Sp. p. 1272; Gaz. vol. 141; p. 225.  
 Fence, Wire. R. B. Hunt. No. 937,072; Oct. 19; Sp. p. 3055; Gaz. vol. 147; p. 537.  
 Fence-wire clamp. A. B. Doering. No. 925,310; June 15; Sp. p. 4673; Gaz. vol. 143; p. 798.  
 Fence-wire clamp. J. T. Grayson and J. I. Hentz. No. 942,064; Dec. 7; Sp. p. 47; Gaz. vol. 149; p. 10.  
 Fence-wire holder. J. H. Lawton. No. 937,158; Oct. 19; Sp. p. 3244; Gaz. vol. 147; p. 566.  
 Fence-wire-releasing device. F. Cummings. No. 923,494; June 1; Sp. p. 845; Gaz. vol. 143; p. 129.  
 Fence-wire-releasing device. F. Cummings. No. 934,999; Sept. 28; Sp. p. 4081; Gaz. vol. 146; p. 731.  
 Fence-wire tightener. F. N. Buckman and H. A. Lange. No. 924,630; June 15; Sp. p. 3315; Gaz. vol. 143; p. 570.  
 Fence-wiring clamp. L. C. Hinkle. No. 928,127; July 13; Sp. p. 2939; Gaz. vol. 144; p. 502.  
 Fences of poultry or other stock yards, Holder for. C. A. Wiley. No. 934,779; Sept. 21; Sp. p. 3622; Gaz. vol. 146; p. 631.  
 Fences or reinforcing fabrics, Joint for wire. J. F. Gilliland. No. 935,905; Oct. 5; Sp. p. 653; Gaz. vol. 147; p. 95.  
 Fences, wire entanglements, &c., Standard or support for wire. L. Andersen. No. 931,554; Aug. 17; Sp. p. 4048; Gaz. vol. 145; p. 698.  
 Fencing, Wire. G. P. Rider. No. 925,229; June 15; Sp. p. 4532; Gaz. vol. 143; p. 774.  
 Fender: See Automobile-fender; Car-fender; Door-fender; Folding fender; Furnace-door-frame guard or fender; Planter-fender; Plow-fender; Stove-door fender; Truck-wheel fender; Vehicle-fender; Wheel-fender.  
 Fender. J. W. Sprint. No. 914,985; Mar. 9; Sp. p. 2745; Gaz. vol. 140; p. 463.  
 Fender. M. Hausle. No. 917,599; Apr. 6; Sp. p. 1241; Gaz. vol. 141; p. 218.  
 Fender. J. E. Horner. No. 923,654; June 1; Sp. p. 1205; Gaz. vol. 143; p. 185.  
 Fender. B. Beckerley. No. 925,417; June 15; Sp. p. 4860; Gaz. vol. 143; p. 831.  
 Fender. A. W. Shank. No. 942,290; Dec. 7; Sp. p. 562; Gaz. vol. 149; p. 89.  
 Fender or trolley-wheel guard. J. A. MacMahon. No. 941,790; Nov. 30; Sp. p. 7347; Gaz. vol. 148; p. 1238.  
 Ferment and producing it. A. D. Barr. No. 911,803; Feb. 9; Sp. p. 1522; Gaz. vol. 139; p. 284.  
 Ferro-nickel and nickel-steel, Making. F. R. Carpenter. No. 922,388; May 18; Sp. p. 4704; Gaz. vol. 142; p. 815.  
 Ferrule. R. S. Gladding. No. 933,750; Sept. 14; Sp. p. 1623; Gaz. vol. 146; p. 267.  
 Ferrule, Husking-. A. S. Lyndon. No. 930,300; Aug. 3; Sp. p. 1370; Gaz. vol. 145; p. 227.  
 Ferrule, Plumber's. J. R. Donnelly. No. 913,366; Feb. 23; Sp. p. 4831; Gaz. vol. 139; p. 865.  
 Ferrule, Waste-. J. Klein. No. 939,711; Nov. 9; Sp. p. 2785; Gaz. vol. 148; p. 460.  
 Ferrules or rings, Die for forming plastic-compound. E. Miltner. No. 927,421; July 6; Sp. p. 1442; Gaz. vol. 144; p. 239.  
 Fertilizer. B. Reichelt. No. 943,460; Dec. 14; Sp. p. 3066; Gaz. vol. 149; p. 515.  
 Fertilizer and seed distributor. O. Wingreen. No. 926,160; June 29; Sp. p. 6437; Gaz. vol. 143; p. 1141.  
 Fertilizer, Borated. C. Ellis. No. 943,668; Dec. 21; Sp. p. 3545; Gaz. vol. 149; p. 617.  
 Fertilizer, Borated insecticide. C. Ellis. No. 943,669; Dec. 21; Sp. p. 3546; Gaz. vol. 149; p. 617.  
 Fertilizer-distributor. M. D. Gating. No. 909,997; Jan. 19; Sp. p. 3158; Gaz. vol. 138; p. 583.  
 Fertilizer-distributor. J. K. Gourdin. No. 912,114; Feb. 9; Sp. p. 2231; Gaz. vol. 139; p. 386.  
 Fertilizer-distributor. W. P. Smith. No. 912,431; Feb. 16; Sp. p. 2901; Gaz. vol. 139; p. 527.  
 Fertilizer-distributor. J. C. Covington. No. 915,661; Mar. 16; Sp. p. 4154; Gaz. vol. 140; p. 716.  
 Fertilizer-distributor. J. C. Miller. No. 920,974; May 11; Sp. p. 1795; Gaz. vol. 142; p. 318.  
 Fertilizer-distributor. J. Boda. No. 921,667; May 18; Sp. p. 3260; Gaz. vol. 142; p. 580.  
 Fertilizer-distributor. O. Lewis. No. 924,477; June 8; Sp. p. 2967; Gaz. vol. 143; p. 486.  
 Fertilizer-distributor. W. J. Adams. No. 927,919; July 13; Sp. p. 2548; Gaz. vol. 144; p. 433.  
 Fertilizer-distributor. E. Buswell. No. 928,024; July 13; Sp. p. 2738; Gaz. vol. 144; p. 467.  
 Fertilizer-distributor. E. Buswell and T. Cascaden, Jr. No. 928,025; July 13; Sp. p. 2742; Gaz. vol. 144; p. 468.  
 Fertilizer-distributor. E. Buswell and T. Cascaden, Jr. No. 928,026; July 13; Sp. p. 2749; Gaz. vol. 144; p. 469.  
 Fertilizer-distributor. W. J. Adams. No. 928,835; July 20; Sp. p. 4410; Gaz. vol. 144; p. 768.  
 Fertilizer-distributor. L. E. Heifner. No. 928,971; July 27; Sp. p. 4693; Gaz. vol. 144; p. 841.  
 Fertilizer-distributor. T. J. Waddell. (Reissue.) No. 12,997; July 27; Sp. p. 6091; Gaz. vol. 144; p. 1065.



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- Fertilizer-distributor. E. C. Smith. No. 930,098; Aug. 3; Sp. p. 1002; Gaz. vol. 145; p. 162.  
 Fertilizer-distributor. W. T. Harkey. No. 930,597; Aug. 10; Sp. p. 2009; Gaz. vol. 145; p. 352.  
 Fertilizer-distributor. J. W. Little. No. 932,301; Aug. 24; Sp. p. 5662; Gaz. vol. 145; p. 966.  
 Fertilizer-distributor. S. E. Jones. No. 934,317; Sept. 14; Sp. p. 2724; Gaz. vol. 146; p. 452.  
 Fertilizer-distributor. J. S. Kemp. No. 934,671; Sept. 21; Sp. p. 3414; Gaz. vol. 146; p. 596.  
 Fertilizer-distributor. J. H. Bloom. No. 935,579; Sept. 28; Sp. p. 5255; Gaz. vol. 146; p. 921.  
 Fertilizer-distributor. C. C. Atkinson. No. 937,563; Oct. 19; Sp. p. 4114; Gaz. vol. 147; p. 700.  
 Fertilizer-distributor. E. C. Galloway. No. 940,455; Nov. 16; Sp. p. 4477; Gaz. vol. 148; p. 748.  
 Fertilizer-distributor. G. E. Alphin. No. 941,603; Nov. 30; Sp. p. 6941; Gaz. vol. 148; p. 1174.  
 Fertilizer-distributor. E. Dierks. No. 943,065; Dec. 14; Sp. p. 2256; Gaz. vol. 149; p. 382.  
 Fertilizer-distributor. A. A. Bullock. No. 944,173; Dec. 21; Sp. p. 4599; Gaz. vol. 149; p. 789.  
 Fertilizer-distributor and planter, Combined. F. W. Decker. No. 940,517; Nov. 16; Sp. p. 4609; Gaz. vol. 148; p. 769.  
 Fertilizer-dropper and planter. L. B. Thomas. No. 927,084; July 6; Sp. p. 816; Gaz. vol. 144; p. 130.  
 Fertilizer-dropper, Hand. J. T. Flippin. No. 917,280; Apr. 6; Sp. p. 662; Gaz. vol. 141; p. 113.  
 Fertilizer, Making. J. H. Connor. No. 931,846; Aug. 24; Sp. p. 4701; Gaz. vol. 145; p. 814.  
 Fertilizer-spreaders, Feeding mechanism for. E. P. Sperry. No. 934,471; Sept. 21; Sp. p. 3027; Gaz. vol. 146; p. 528.  
 Fertilizers, Making complete. J. R. Young. No. 911,283; Feb. 2; Sp. p. 516; Gaz. vol. 139; p. 89.  
 Fertilizers, Making solid. B. F. Halvorsen. No. 936,317; Oct. 12; Sp. p. 1477; Gaz. vol. 147; p. 255.  
 Fertilizers, Manufacture of. D. Shields. No. 913,922; Mar. 2; Sp. p. 544; Gaz. vol. 140; p. 88.  
 Fertilizing material, Making. J. W. Lowman. No. 922,494; May 25; Sp. p. 4927; Gaz. vol. 142; p. 878.  
 Fiber and making same, Fireproof. K. P. McElroy and C. Ellis. No. 914,300; Mar. 2; Sp. p. 1372; Gaz. vol. 140; p. 213.  
 Fiber and making the same, Composite. P. M. Hamlin. No. 931,865; Aug. 24; Sp. p. 4739; Gaz. vol. 145; p. 820.  
 Fiber, Apparatus for handling the electrolytic products of brine in the treatment of. W. V. Wentworth and A. B. Larchar. No. 912,339; Feb. 16; Sp. p. 2719; Gaz. vol. 139; p. 496.  
 Fiber cleaning and preparing apparatus. J. K. Toles. No. 911,529; Feb. 2; Sp. p. 967; Gaz. vol. 139; p. 168.  
 Fiber-cleaning apparatus. J. K. Toles. No. 939,569; Nov. 9; Sp. p. 2478; Gaz. vol. 148; p. 411.  
 Fiber-cleaning machine. A. W. Montgomery. No. 910,406; Jan. 19; Sp. p. 4039; Gaz. vol. 138; p. 724.  
 Fiber-cleaning machine. B. S. Summers. No. 915,125; Mar. 16; Sp. p. 3044; Gaz. vol. 140; p. 537.  
 Fiber-cleaning machine. L. L. Summers. No. 938,722; Nov. 2; Sp. p. 591; Gaz. vol. 148; p. 93.  
 Fiber-cleaning machine. A. Pons. No. 944,106; Dec. 21; Sp. p. 4445; Gaz. vol. 149; p. 766.  
 Fiber-cleaning machine. C. G. Sargent. No. 944,507; Dec. 28; Sp. p. 5334; Gaz. vol. 149; p. 930.  
 Fiber coiling and packing machine. R. Dawson. No. 911,297; Feb. 2; Sp. p. 545; Gaz. vol. 139; p. 93.  
 Fiber conveying and reversing apparatus. J. K. Toles. No. 944,583; Dec. 28; Sp. p. 5515; Gaz. vol. 149; p. 957.  
 Fiber, Handling the electrolytic products of brine in the treatment of. W. V. Wentworth and A. B. Larchar. No. 912,340; Feb. 16; Sp. p. 2722; Gaz. vol. 139; p. 497.  
 Fiber-liberating machine or break. T. G. Saxton. No. 944,509; Dec. 28; Sp. p. 5338; Gaz. vol. 149; p. 930.  
 Fiber, Soaking sheet. I. W. Marshall. No. 930,205; Aug. 3; Sp. p. 1206; Gaz. vol. 145; p. 197.  
 Fiber-treating machines, Feeding mechanism for. J. N. Selvig. No. 928,223; July 13; Sp. p. 3140; Gaz. vol. 144; p. 535.  
 Fibers and fabrics, Waterproofing. T. A. Edison. No. 909,168; Jan. 12; Sp. p. 1525; Gaz. vol. 138; p. 276.  
 Fibers from reeds, &c., Producing textile. F. Fuchs. No. 910,468; Jan. 19; Sp. p. 4169; Gaz. vol. 138; p. 746.  
 Fibers, threads, and fabrics, Improving textile. G. Kraemer. No. 942,395; Dec. 7; Sp. p. 753; Gaz. vol. 149; p. 123.  
 Fibers, Treating vegetable textile. A. E. M. Rousseau. No. 909,457; Jan. 12; Sp. p. 2072; Gaz. vol. 138; p. 368.  
 Fibrous material, Agglomerating. C. L. Norton. No. 929,004; July 27; Sp. p. 4761; Gaz. vol. 144; p. 852.  
 Fibrous material, Flexible. G. Lanzendorfer. No. 923,978; June 8; Sp. p. 1940; Gaz. vol. 143; p. 323.  
 Fibrous material, Manufacture of. J. I. Wood. No. 931,979; Aug. 24; Sp. p. 5011; Gaz. vol. 145; p. 858.  
 Fibrous material, Preserving composition for. K. H. Wolman and B. Diamana. No. 934,871; Sept. 21; Sp. p. 3509; Gaz. vol. 146; p. 661.  
 Fibrous material, Securing together surfaces of. J. R. Harbeck. No. 909,590; Jan. 12; Sp. p. 2335; Gaz. vol. 138; p. 414.  
 Fibrous material with liquids, Apparatus for treating. H. Thies and W. Mathesius. No. 923,310; June 1; Sp. p. 468; Gaz. vol. 143; p. 66.  
 Field-ration mess-kit. G. H. Preston. No. 911,442; Feb. 2; Sp. p. 800; Gaz. vol. 139; p. 139.  
 Field-roller, Adjustable. C. J. Solomon. No. 934,942; Sept. 21; Sp. p. 3956; Gaz. vol. 146; p. 686.  
 Fifth-wheel. R. G. and L. Cator. No. 909,755; Jan. 12; Sp. p. 2667; Gaz. vol. 138; p. 470.  
 Fifth-wheel. J. I. Ray. No. 915,478; Mar. 16; Sp. p. 3747; Gaz. vol. 140; p. 652.  
 Fifth-wheel. J. A. Burrell. No. 936,983; Oct. 12; Sp. p. 2860; Gaz. vol. 147; p. 478.  
 Fifth-wheel. W. True. No. 937,196; Oct. 19; Sp. p. 3320; Gaz. vol. 147; p. 577.  
 Fifth-wheel. J. Herby. No. 939,254; Nov. 9; Sp. p. 1742; Gaz. vol. 148; p. 30.  
 Fifth-wheel construction. J. Repetto. No. 934,757; Sept. 21; Sp. p. 3578; Gaz. vol. 146; p. 624.  
 Figure and skirt-stand, Lay. J. F. Gems. No. 943,066; Dec. 14; Sp. p. 2263; Gaz. vol. 149; p. 384.  
 Figure, Jointed sheet-metal. F. C. Sneyd. No. 942,524; Dec. 7; Sp. p. 1044; Gaz. vol. 149; p. 169.  
 File. T. J. MacKay, Sr. No. 911,736; Feb. 9; Sp. p. 1415; Gaz. vol. 139; p. 263.  
 File. S. S. Kurtz. No. 916,565; Mar. 30; Sp. p. 5925; Gaz. vol. 140; p. 1063.  
 File. E. Kustin. No. 926,829; July 6; Sp. p. 263; Gaz. vol. 144; p. 42.  
 File. T. E. Gill. No. 944,730; Dec. 28; Sp. p. 5814; Gaz. vol. 149; p. 1006.  
 File, Account-. A. A. Schmidt and T. W. Huwe. No. 912,419; Feb. 16; Sp. p. 2885; Gaz. vol. 139; p. 523.  
 File and binder and punch therefor, Slip. J. R. Dowling and J. P. Squires. No. 915,569; Mar. 16; Sp. p. 3947; Gaz. vol. 140; p. 681.  
 File and jointer for saws, Slide. L. C. Cook. No. 944,322; Dec. 28; Sp. p. 4913; Gaz. vol. 149; p. 865.  
 File and rasp cutting machine. C. Feiseler. No. 943,993; Dec. 21; Sp. p. 4222; Gaz. vol. 149; p. 729.  
 File and similar abrading-tool. T. Boswell. No. 934,882; Sept. 21; Sp. p. 3531; Gaz. vol. 146; p. 665.  
 File, Bill-. E. M. Shreiner. No. 920,402; May 4; Sp. p. 632; Gaz. vol. 142; p. 101.  
 File, Bill-. J. G. Henderson. No. 920,867; May 4; Sp. p. 1586; Gaz. vol. 142; p. 253.  
 File, Bill-. W. Brach. No. 921,200; May 11; Sp. p. 2258; Gaz. vol. 142; p. 397.  
 File, Bill-. M. Herbst. No. 923,840; June 8; Sp. p. 1676; Gaz. vol. 143; p. 278.  
 File, Bill-. A. H. Kelly. No. 926,257; June 29; Sp. p. 6649; Gaz. vol. 143; p. 1174.  
 File-book, &c. J. H. Horwitz. No. 910,286; Jan. 19; Sp. p. 3795; Gaz. vol. 138; p. 683.  
 File-box. C. Keck and A. Doin. No. 941,681; Nov. 30; Sp. p. 7100; Gaz. vol. 148; p. 1200.  
 File-cabinet. L. S. Morris. No. 926,759; July 6; Sp. p. 108; Gaz. vol. 144; p. 17.  
 File cabinet, Bill-. J. Miller. No. 941,025; Nov. 23; Sp. p. 5706; Gaz. vol. 148; p. 963.  
 File-cabinet, Credit-account. M. L. Stegmaier. No. 924,700; June 15; Sp. p. 3455; Gaz. vol. 143; p. 594.  
 File, Card-. E. Strassel. No. 917,679; Apr. 6; Sp. p. 1386; Gaz. vol. 141; p. 245.  
 File, Card-. S. T. Walton. No. 927,303; July 6; Sp. p. 1226; Gaz. vol. 144; p. 201.  
 File case or cabinet. E. G. Minder. No. 909,440; Jan. 12; Sp. p. 2037; Gaz. vol. 138; p. 362.  
 File, Expansive. H. E. Shedd. No. 916,206; Mar. 23; Sp. p. 5186; Gaz. vol. 140; p. 918.  
 File-holder. E. G. Sampson. No. 924,690; June 15; Sp. p. 3436; Gaz. vol. 143; p. 591.  
 File-holder. W. C. Shank. No. 938,519; Nov. 2; Sp. p. 178; Gaz. vol. 148; p. 25.  
 File-indicator, Duplicate-sales-slip. M. A. Lumbard. No. 910,555; Jan. 26; Sp. p. 4351; Gaz. vol. 138; p. 799.  
 File, Individual-account. B. M. Backus. No. 921,340; May 11; Sp. p. 2571; Gaz. vol. 142; p. 444.  
 File, Letter-. J. J. Dettwyler. No. 908,755; Jan. 5; Sp. p. 695; Gaz. vol. 138; p. 108.  
 File, Letter-. W. A. Kramer. No. 919,730; Apr. 27; Sp. p. 5938; Gaz. vol. 141; p. 1019.  
 File or holder for sales-slips. E. H. Huber. No. 937,071; Oct. 19; Sp. p. 3054; Gaz. vol. 147; p. 537.  
 File or the like, Bill-. F. J. Kristofek. No. 937,247; Oct. 19; Sp. p. 3455; Gaz. vol. 147; p. 594.  
 File, Paper-. C. Spiro. No. 913,316; Feb. 23; Sp. p. 4733; Gaz. vol. 139; p. 848.  
 File, Paper-. W. E. Davies. No. 921,957; May 18; Sp. p. 3847; Gaz. vol. 142; p. 673.  
 File, Paper-. R. N. Pemberton. No. 924,929; June 15; Sp. p. 3931; Gaz. vol. 143; p. 671.  
 File, temporary binder, loose-leaf book, &c. J. Walker, Jr. No. 920,508; May 4; Sp. p. 841; Gaz. vol. 142; p. 135.  
 File-wrapper. W. R. Harris. No. 910,194; Jan. 19; Sp. p. 3559; Gaz. vol. 138; p. 648.  
 Files, Division-plate for document-. W. J. Vick. No. 928,346; July 20; Sp. p. 3447; Gaz. vol. 144; p. 608.  
 Files, Follower-plate and holder for. A. J. Tice. No. 944,223; Dec. 21; Sp. p. 4684; Gaz. vol. 149; p. 803.  
 Files, Tool for cutting abrasive. J. Neill. No. 943,953; Dec. 21; Sp. p. 4129; Gaz. vol. 149; p. 716.  
 Filing apparatus. H. M. Searce. No. 918,919; Apr. 20; Sp. p. 4087; Gaz. vol. 141; p. 717.  
 Filing-cabinet. E. C. Holland. No. 933,755; Sept. 14; Sp. p. 1631; Gaz. vol. 146; p. 269.  
 Filing-cabinet. S. W. Crane. No. 934,428; Sept. 21; Sp. p. 2948; Gaz. vol. 146; p. 514.  
 Filing-cabinet. J. Dannheiser. No. 941,133; Nov. 23; Sp. p. 5941; Gaz. vol. 148; p. 999.  
 Filing-cabinet. J. R. Ryan. No. 942,414; Dec. 7; Sp. p. 796; Gaz. vol. 149; p. 129.

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- Filling-case. C. P. Zoerb. No. 909,734; Jan. 12; Sp. p. 2630; Gaz. vol. 138; p. 464.  
 Filling-case drawer. E. Ohnstrand. No. 943,841; Dec. 21; Sp. p. 3887; Gaz. vol. 149; p. 676.  
 Filling-device clamp, Paper-. M. Wiesner. No. 931,978; Aug. 24; Sp. p. 5010; Gaz. vol. 145; p. 858.  
 Filling-folder. J. Chapin. No. 915,073; Mar. 16; Sp. p. 2902; Gaz. vol. 140; p. 518.  
 Filing register, Document-. A. Weizenback. No. 921,931; May 18; Sp. p. 3785; Gaz. vol. 142; p. 666.  
 Filing system, Vertical-. J. B. Perrine. No. 914,452; Mar. 9; Sp. p. 1688; Gaz. vol. 140; p. 289.  
 Filing system, Vertical-. J. Dannheiser. No. 923,412; June 1; Sp. p. 687; Gaz. vol. 143; p. 100.  
 Filler. W. A. Knight. No. 925,109; June 15; Sp. p. 4298; Gaz. vol. 143; p. 732.  
 Filler. C. F. Gray. No. 925,169; June 15; Sp. p. 4413; Gaz. vol. 143; p. 753.  
 Filler-strip. D. J. Kelly. No. 919,592; Apr. 27; Sp. p. 5667; Gaz. vol. 141; p. 974.  
 Filling and capping apparatus. F. J. Heybach. No. 935,506; Sept. 28; Sp. p. 5092; Gaz. vol. 146; p. 896.  
 Filling-can. L. Granda. No. 919,429; Apr. 27; Sp. p. 5301; Gaz. vol. 141; p. 917.  
 Filling-carrier or bobbin. S. W. Wardwell. No. 919,502; Apr. 27; Sp. p. 5489; Gaz. vol. 141; p. 943.  
 Filling device. E. N. Gaudron. No. 932,268; Aug. 24; Sp. p. 5595; Gaz. vol. 145; p. 954.  
 Filling device. J. Papish. No. 940,611; Nov. 16; Sp. p. 4796; Gaz. vol. 148; p. 799.  
 Filling-machine. J. F. Haller. No. 938,482; Nov. 2; Sp. p. 66; Gaz. vol. 148; p. 12.  
 Filling-machine. F. C. H. Strasburger. No. 940,624; Nov. 16; Sp. p. 4819; Gaz. vol. 148; p. 803.  
 Filling-machine, Portable. F. G. McIntosh and H. V. Hampton. No. 917,645; Apr. 6; Sp. p. 1330; Gaz. vol. 141; p. 234.  
 Filling material for reaction-spaces. O. Guttman. No. 912,310; Feb. 16; Sp. p. 2651; Gaz. vol. 139; p. 486.  
 Filling-moistening apparatus. H. F. Straw. No. 910,602; Jan. 26; Sp. p. 4468; Gaz. vol. 138; p. 815.  
 Film-developing machine. R. L. Burton. No. 920,263; May 4; Sp. p. 365; Gaz. vol. 142; p. 57.  
 Film-drying machine. F. B. Thompson. No. 939,350; Nov. 9; Sp. p. 1991; Gaz. vol. 148; p. 338.  
 Film-frame apparatus. B. Day. No. 941,500; Nov. 30; Sp. p. 6736; Gaz. vol. 148; p. 1141.  
 Film-frame carrier, Adjustable. E. Biechele. No. 914,694; Mar. 9; Sp. p. 2195; Gaz. vol. 140; p. 369.  
 Film holder, Roll-. L. S. Bander. No. 920,901; May 11; Sp. p. 1655; Gaz. vol. 142; p. 295.  
 Film-pack, Daylight-loading. J. E. Thornton. No. 925,126; Mar. 16; Sp. p. 3065; Gaz. vol. 140; p. 537.  
 Film-pack, Flat. J. G. Schnelder. No. 941,103; Nov. 23; Sp. p. 5863; Gaz. vol. 148; p. 988.  
 Film-reeling mechanism. A. C. Roebuck. No. 919,773; Apr. 27; Sp. p. 6013; Gaz. vol. 141; p. 1034.  
 Film-reversing mechanism. J. M. Triviss. No. 931,813; Aug. 24; Sp. p. 4640; Gaz. vol. 145; p. 803.  
 Film-roll holder, Adjustable. W. J. Bresnan. No. 909,534; Jan. 12; Sp. p. 2226; Gaz. vol. 138; p. 395.  
 Films and illustrated-song outfits, Portable holder for. E. E. Wagner. No. 940,757; Nov. 23; Sp. p. 5132; Gaz. vol. 148; p. 874.  
 Films, Device for repairing moving-picture. C. R. Uebelmesser. No. 913,326; Feb. 23; Sp. p. 4756; Gaz. vol. 139; p. 851.  
 Films or flakes, Making metallic. T. A. Edison. No. 936,525; Oct. 12; Sp. p. 1961; Gaz. vol. 147; p. 323.  
 Filter. A. T. Peirce. No. 910,719; Jan. 26; Sp. p. 4680; Gaz. vol. 139; p. 851.  
 Filter. E. Scheunert. No. 911,682; Feb. 9; Sp. p. 1315; Gaz. vol. 139; p. 245.  
 Filter. C. R. Perry, C. M. Finch, and M. L. Rice. No. 915,038; Mar. 9; Sp. p. 2842; Gaz. vol. 140; p. 481.  
 Filter. G. J. Kelley. No. 915,185; Mar. 16; Sp. p. 3171; Gaz. vol. 140; p. 556.  
 Filter. N. G. Goreau. No. 918,746; Apr. 20; Sp. p. 3713; Gaz. vol. 141; p. 659.  
 Filter. S. B. Goff. No. 919,849; Apr. 27; Sp. p. 6205; Gaz. vol. 141; p. 1059.  
 Filter. I. H. Jewell. No. 921,115; May 11; Sp. p. 2081; Gaz. vol. 142; p. 367.  
 Filter. C. R. Perry and C. M. Finch. No. 922,326; May 18; Sp. p. 4576; Gaz. vol. 142; p. 794.  
 Filter. C. R. Perry and C. M. Finch. No. 924,497; June 8; Sp. p. 3018; Gaz. vol. 143; p. 493.  
 Filter. F. Sellenscheidt. No. 927,606; July 13; Sp. p. 1869; Gaz. vol. 144; p. 330.  
 Filter. J. W. Morrison. No. 927,743; July 13; Sp. p. 2159; Gaz. vol. 144; p. 374.  
 Filter. F. B. Anderson. No. 928,576; July 20; Sp. p. 3905; Gaz. vol. 144; p. 675.  
 Filter. A. Ender. No. 930,167; Aug. 3; Sp. p. 1150; Gaz. vol. 145; p. 187.  
 Filter. A. Rahe. No. 930,561; Aug. 10; Sp. p. 1928; Gaz. vol. 145; p. 340.  
 Filter. E. Burt. No. 931,267; Aug. 17; Sp. p. 3481; Gaz. vol. 145; p. 603.  
 Filter. F. W. Pendergast and B. Hinsley. No. 931,472; Aug. 17; Sp. p. 3902; Gaz. vol. 145; p. 673.  
 Filter. R. J. Goade. No. 932,696; Aug. 31; Sp. p. 6502; Gaz. vol. 145; p. 1120.  
 Filter. D. W. Field. No. 935,006; Sept. 28; Sp. p. 4090; Gaz. vol. 146; p. 733.  
 Filter. R. S. Browne. No. 938,636; Nov. 2; Sp. p. 427; Gaz. vol. 148; p. 65.  
 Filter. L. W. and M. Andres. No. 938,947; Nov. 2; Sp. p. 1091; Gaz. vol. 148; p. 173.  
 Filter. A. G. Sheak. No. 939,448; Nov. 9; Sp. p. 2225; Gaz. vol. 148; p. 370.  
 Filter. J. W. Hammett. No. 939,497; Nov. 9; Sp. p. 2327; Gaz. vol. 148; p. 386.  
 Filter. J. T. H. Paul. (Reissue.) No. 13,053; Dec. 7; Sp. p. 1788; Gaz. vol. 149; p. 289.  
 Filter. J. S. Roake. No. 943,708; Dec. 21; Sp. p. 3621; Gaz. vol. 149; p. 630.  
 Filter, Air-. M. McGerry. No. 931,014; Aug. 10; Sp. p. 2904; Gaz. vol. 145; p. 488.  
 Filter and strainer, Centrifugal pulp. H. T. and A. M. Sedgley. No. 943,476; Dec. 14; Sp. p. 3099; Gaz. vol. 149; p. 522.  
 Filter and strainer for coffee-pots, Combined. R. C. Bailey. No. 915,324; Mar. 16; Sp. p. 3447; Gaz. vol. 140; p. 601.  
 Filter-beds, Apparatus for cleaning. Z. von Wessely. No. 944,628; Dec. 28; Sp. p. 5389; Gaz. vol. 149; p. 937.  
 Filter-beds, &c., Apparatus for discharging liquids from and to. C. R. B. Brown. No. 922,386; May 18; Sp. p. 4699; Gaz. vol. 142; p. 814.  
 Filter-beds, Cleansing. Z. von Wessely. No. 944,527; Dec. 28; Sp. p. 5388; Gaz. vol. 149; p. 937.  
 Filter-cell. G. M. Kneuper. No. 934,076; Sept. 14; Sp. p. 2252; Gaz. vol. 146; p. 371.  
 Filter, Continuous vacuum-. E. L. Oliver. No. 919,628; Apr. 27; Sp. p. 5730; Gaz. vol. 141; p. 986.  
 Filter-crib. S. Diescher. No. 922,101; May 18; Sp. p. 4132; Gaz. vol. 142; p. 722.  
 Filter distributing-machine, Closed-. H. W. Blaisdell. (Reissue.) No. 12,932; Mar. 30; Sp. p. 675; Gaz. vol. 140; p. 1190.  
 Filter, Feed-water. R. C. Montague. No. 930,401; Aug. 10; Sp. p. 1570; Gaz. vol. 145; p. 284.  
 Filter-leaf. H. W. Blaisdell and H. A. Brooks. No. 925,554; June 22; Sp. p. 5142; Gaz. vol. 143; p. 906.  
 Filter, Mechanical. J. G. Brewer. No. 920,909; May 11; Sp. p. 1669; Gaz. vol. 142; p. 298.  
 Filter, Metallurgical. J. H. Hedges and J. Allingham. No. 920,739; May 4; Sp. p. 1312; Gaz. vol. 142; p. 212.  
 Filter, Milk-pail. J. F. Horne. No. 919,431; Apr. 27; Sp. p. 5305; Gaz. vol. 141; p. 917.  
 Filter, Oil-. F. B. Anderson. No. 915,650; Mar. 16; Sp. p. 4117; Gaz. vol. 140; p. 712.  
 Filter, Oil-. A. Winton. No. 923,747; June 1; Sp. p. 1383; Gaz. vol. 143; p. 216.  
 Filter, Oil-. G. A. Sims. No. 932,063; Aug. 24; Sp. p. 5198; Gaz. vol. 145; p. 887.  
 Filter or strainer. I. J. True. No. 926,038; June 22; Sp. p. 6169; Gaz. vol. 143; p. 1065.  
 Filter or strainer for water-jugs, canteens, and the like. F. R. Morrell. No. 929,153; July 27; Sp. p. 5077; Gaz. vol. 144; p. 902.  
 Filter plate, Pressure-. C. W. Merrill. No. 912,867; Feb. 16; Sp. p. 3825; Gaz. vol. 139; p. 674.  
 Filter-press. S. K. Behrend. No. 924,131; June 8; Sp. p. 2219; Gaz. vol. 143; p. 370.  
 Filter-press. E. W. Heller. No. 942,173; Dec. 7; Sp. p. 319; Gaz. vol. 149; p. 48.  
 Filter-press frames, Securing resilient packing in the grooves of metallic. E. Feix. No. 944,423; Dec. 28; Sp. p. 5133; Gaz. vol. 149; p. 901.  
 Filter-press plate. J. W. Biles. No. 914,476; Mar. 9; Sp. p. 1733; Gaz. vol. 140; p. 297.  
 Filter, Pressure-. E. J. Sweetland. No. 929,636; July 27; Sp. p. 6061; Gaz. vol. 144; p. 1060.  
 Filter, Rain-spout. J. E. Welling. No. 943,106; Dec. 14; Sp. p. 2332; Gaz. vol. 149; p. 396.  
 Filter-sand, Washing. P. J. A. Maignen. No. 924,682; June 15; Sp. p. 3416; Gaz. vol. 143; p. 588.  
 Filter, Water-. R. M. Baxter. No. 915,821; Mar. 23; Sp. p. 4476; Gaz. vol. 140; p. 793.  
 Filter, Water-. G. Windschild. No. 932,219; Aug. 24; Sp. p. 5506; Gaz. vol. 145; p. 938.  
 Filter, Water-. I. K. Hisey and R. M. Wardle. No. 939,418; Nov. 9; Sp. p. 2168; Gaz. vol. 148; p. 360.  
 Filters, Indicator device for reservoir-. F. N. Connet. No. 941,061; Nov. 23; Sp. p. 5772; Gaz. vol. 148; p. 974.  
 Filters, Packing. G. Knock. No. 918,867; Apr. 20; Sp. p. 3975; Gaz. vol. 141; p. 698.  
 Filtering and washing the filtered material, Apparatus for. A. Grothe and H. F. Carter. No. 938,378; Oct. 26; Sp. p. 5841; Gaz. vol. 147; p. 991.  
 Filtering apparatus. A. J. Arbuckle. No. 924,721; June 15; Sp. p. 3497; Gaz. vol. 143; p. 601.  
 Filtering apparatus. D. Diver. No. 935,359; Sept. 28; Sp. p. 4804; Gaz. vol. 146; p. 849.  
 Filtering apparatus. C. W. Schultze. No. 938,279; Oct. 26; Sp. p. 5600; Gaz. vol. 147; p. 958.  
 Filtering apparatus. I. H. Jewell. No. 944,194; Dec. 21; Sp. p. 4636; Gaz. vol. 149; p. 794.  
 Filtering-bed. P. F. Bussman. No. 931,032; Aug. 17; Sp. p. 2948; Gaz. vol. 145; p. 522.  
 Filtering composition, Self-. C. L. Norton. No. 929,002; July 27; Sp. p. 4756; Gaz. vol. 144; p. 852.  
 Filtering device. C. Müller. No. 932,408; Aug. 24; Sp. p. 5859; Gaz. vol. 145; p. 1000.  
 Filtering-machine. R. T. Wilder. No. 925,856; June 22; Sp. p. 5810; Gaz. vol. 143; p. 1006.  
 Filtering mechanism. G. H. Hathaway. No. 918,674; Apr. 20; Sp. p. 3557; Gaz. vol. 141; p. 634.  
 Finger bar and guard. J. Weigel. No. 936,063; Oct. 5; Sp. p. 981; Gaz. vol. 147; p. 147.



*Alphabetical list of inventions—Continued.*

- Finger-exercising device. C. F. Steckelberg. No. 936,181; Oct. 5; Sp. p. 1224; Gaz. vol. 147; p. 184.  
 Finger-head. H. G. and J. H. Frappier. No. 936,243; Oct. 5; Sp. p. 1321; Gaz. vol. 147; p. 203.  
 Finger-pad. J. G. Marsh. No. 942,003; Nov. 30; Sp. p. 7787; Gaz. vol. 148; p. 1311.  
 Finger-ring. C. M. Levy. No. 912,139; Feb. 9; Sp. p. 2272; Gaz. vol. 139; p. 393.  
 Finger-ring. L. E. Sadler. No. 939,864; Nov. 9; Sp. p. 3107; Gaz. vol. 148; p. 513.  
 Finger-shield. A. W. Krieger. No. 911,823; Feb. 9; Sp. p. 1567; Gaz. vol. 139; p. 291.  
 Finish-remover. C. Ellis. No. 919,143; Apr. 20; Sp. p. 4513; Gaz. vol. 141; p. 788.  
 Finish-remover and making the same. C. Ellis. No. 925,429; June 15; Sp. p. 4889; Gaz. vol. 143; p. 835.  
 Finish, Removing. J. M. Wilson. No. 932,738; Aug. 31; Sp. p. 6585; Gaz. vol. 145; p. 1135.  
 Finish-removing composition. C. Ellis. No. 910,049; Jan. 19; Sp. p. 3255; Gaz. vol. 138; p. 600.  
 Finishing-machine. W. B. C. Hershey and D. E. Huston. No. 923,841; June 8; Sp. p. 1677; Gaz. vol. 143; p. 278.  
 Finishing-nail. J. J. Simon. No. 927,291; July 6; Sp. p. 1205; Gaz. vol. 144; p. 198.  
 Finishing process. H. L. Haskell. No. 935,603; Sept. 28; Sp. p. 5298; Gaz. vol. 146; p. 930.  
 Fire-alarm. G. P. Leonard. No. 908,585; Jan. 5; Sp. p. 313; Gaz. vol. 138; p. 53.  
 Fire-alarm. V. Kall. No. 911,730; Feb. 9; Sp. p. 1403; Gaz. vol. 139; p. 261.  
 Fire-alarm. A. T. Newman. No. 921,875; May 18; Sp. p. 3679; Gaz. vol. 142; p. 648.  
 Fire-alarm. W. Goodchild. No. 939,128; Nov. 2; Sp. p. 1442; Gaz. vol. 148; p. 234.  
 Fire-alarm. B. C. Andrews. No. 944,305; Dec. 28; Sp. p. 4876; Gaz. vol. 149; p. 859.  
 Fire-alarm apparatus, Electric signaling. W. H. Kirnan. No. 930,388; Aug. 10; Sp. p. 1545; Gaz. vol. 145; p. 280.  
 Fire-alarm attachment. W. J. Bastedo. No. 934,378; Sept. 21; Sp. p. 3824; Gaz. vol. 146; p. 663.  
 Fire-alarm, Automatic. O. B. Johnson. No. 913,146; Feb. 23; Sp. p. 4381; Gaz. vol. 139; p. 791.  
 Fire-alarm, Automatic. H. Furlani. No. 925,575; June 22; Sp. p. 5188; Gaz. vol. 143; p. 913.  
 Fire-alarm, Automatic. P. Bonini. No. 931,377; Aug. 17; Sp. p. 3720; Gaz. vol. 145; p. 642.  
 Fire-alarm, Automatic. C. D. Miller. No. 936,923; Oct. 12; Sp. p. 2747; Gaz. vol. 147; p. 459.  
 Fire-alarm-box attachment. F. A. Dorsey and M. E. Keyser. No. 919,702; Apr. 27; Sp. p. 5886; Gaz. vol. 141; p. 1010.  
 Fire-alarm box, Automatic. H. Anderson. No. 917,235; Apr. 6; Sp. p. 557; Gaz. vol. 141; p. 97.  
 Fire-alarm circuits, Circuit-closer for. R. D. Tiffany. No. 911,921; Feb. 9; Sp. p. 1745; Gaz. vol. 139; p. 323.  
 Fire-alarm keys, Device for holding. A. and A. Iske. No. 931,123; Aug. 17; Sp. p. 3155; Gaz. vol. 145; p. 553.  
 Fire-alarm signal apparatus. W. H. Kirnan. No. 930,971; Aug. 10; Sp. p. 2787; p. Gaz. vol. 145; p. 473.  
 Fire-alarm signal system. B. B. Hatch. No. 917,061; Apr. 6; Sp. p. 199; Gaz. vol. 141; p. 37.  
 Fire-alarm signaling device. F. C. Crutchfield. No. 910,118; Jan. 19; Sp. p. 3383; Gaz. vol. 138; p. 622.  
 Fire-alarm system. J. Donitz. No. 916,280; Mar. 23; Sp. p. 5319; Gaz. vol. 140; p. 942.  
 Fire-alarm system. W. B. Klahre. No. 932,399; Aug. 24; Sp. p. 5838; Gaz. vol. 145; p. 997.  
 Fire-alarm system, Automatic. F. Bain. No. 921,660; May 18; Sp. p. 3238; Gaz. vol. 142; p. 576.  
 Fire-alarm, telegraph, and telephone system, Combined. M. Garl. No. 916,142; Mar. 23; Sp. p. 5070; Gaz. vol. 140; p. 898.  
 Fire-alarm-telegraph apparatus. F. W. Cole. No. 923,114; May 25; Sp. p. 6224; Gaz. vol. 142; p. 1079.  
 Fire-alarm test apparatus. J. G. Nolen. No. 939,292; Nov. 9; Sp. p. 1837; Gaz. vol. 148; p. 317.  
 Fire and for destroying vermin. Apparatus for extinguishing. G. Harker. No. 915,431; Mar. 16; Sp. p. 3657; Gaz. vol. 140; p. 636.  
 Fire and temperature alarm or indicator. C. Smith. No. 934,225; Sept. 14; Sp. p. 2556; Gaz. vol. 146; p. 422.  
 Fire apparatus. K. P. Rowe. No. 921,284; May 11; Sp. p. 2439; Gaz. vol. 142; p. 424.  
 Fire apparatus. L. H. Overly. No. 922,622; May 25; Sp. p. 5203; Gaz. vol. 142; p. 921.  
 Fire apparatus, Device for raising and lowering. C. M. Dean. No. 927,126; July 6; Sp. p. 893; Gaz. vol. 144; p. 144.  
 Fire-bar. A. Esplen. No. 933,967; Sept. 14; Sp. p. 2049; Gaz. vol. 146; p. 337.  
 Fire-bar-tilting mechanism. W. R., T., Jr., P., and H. A. Peat. No. 920,640; May 4; Sp. p. 1104; Gaz. vol. 142; p. 179.  
 Fire-boat. W. I. Babcock. No. 924,128; June 8; Sp. p. 2213; Gaz. vol. 143; p. 369.  
 Fire-box. W. D. Boyce. No. 938,036; Oct. 26; Sp. p. 5078; Gaz. vol. 147; p. 874.  
 Fire-box, Sectional. F. W. Shupert and H. W. Jacobs. No. 917,172; Apr. 6; Sp. p. 426; Gaz. vol. 141; p. 74.  
 Fire-brick lining, Basic. S. B. Newberry. No. 927,585; July 13; Sp. p. 1805; Gaz. vol. 144; p. 322.  
 Fire-bucket. D. B. McLaughlin. No. 926,998; July 6; Sp. p. 598; Gaz. vol. 144; p. 98.  
 Fire-door. T. E. Collins. No. 926,978; July 6; Sp. p. 563; Gaz. vol. 144; p. 92.  
 Fire-door lock. R. M. McCoy. No. 928,142; July 13; Sp. p. 2963; Gaz. vol. 144; p. 507.  
 Fire door and wall. A. D. Caywood. No. 918,824; Apr. 20; Sp. p. 3878; Gaz. vol. 141; p. 684.  
 Fire-engine, Gasolene. W. F. Gibbs. No. 918,140; Apr. 13; Sp. p. 2399; Gaz. vol. 141; p. 430.  
 Fire-escape. E. M. Lowy. No. 910,006; Jan. 19; Sp. p. 3173; Gaz. vol. 138; p. 586.  
 Fire-escape. P. Nigro. No. 912,152; Feb. 9; Sp. p. 2295; Gaz. vol. 139; p. 398.  
 Fire-escape. K. G. Feyma. No. 913,117; Feb. 23; Sp. p. 4321; Gaz. vol. 139; p. 781.  
 Fire-escape. G. H. Johnson. No. 914,661; Mar. 9; Sp. p. 2099; Gaz. vol. 140; p. 357.  
 Fire-escape. R. J. Brown. No. 916,100; Mar. 23; Sp. p. 4994; Gaz. vol. 140; p. 885.  
 Fire-escape. A. Altstadter. No. 916,247; Mar. 23; Sp. p. 5268; Gaz. vol. 140; p. 931.  
 Fire-escape. O. D. Alspach. No. 916,825; Mar. 30; Sp. p. 6390; Gaz. vol. 140; p. 1143.  
 Fire-escape. G. Y. Thompson. No. 917,681; Apr. 6; Sp. p. 1390; Gaz. vol. 141; p. 245.  
 Fire-escape. M. J. and G. A. Broome. No. 918,275; Apr. 13; Sp. p. 2679; Gaz. vol. 141; p. 474.  
 Fire-escape. R. Korb. No. 918,333; Apr. 13; Sp. p. 2778; Gaz. vol. 141; p. 492.  
 Fire-escape. J. Hegedus. No. 919,721; Apr. 27; Sp. p. 5921; Gaz. vol. 141; p. 1016.  
 Fire-escape. N. Slavin. No. 920,200; May 4; Sp. p. 222; Gaz. vol. 152; p. 34.  
 Fire-escape. T. B. Erwin and H. C. Meyer. No. 920,296; May 4; Sp. p. 439; Gaz. vol. 142; p. 67.  
 Fire-escape. P. O'Thayne. No. 922,323; May 18; Sp. p. 4567; Gaz. vol. 142; p. 793.  
 Fire-escape. E. Miller. No. 923,555; June 1; Sp. p. 985; Gaz. vol. 143; p. 151.  
 Fire-escape. W. P. Slattery. No. 924,283; June 8; Sp. p. 2592; Gaz. vol. 143; p. 423.  
 Fire-escape. C. M. Sheeley. No. 924,695; June 15; Sp. p. 3445; Gaz. vol. 143; p. 592.  
 Fire-escape. I. Knapke and M. Lange. No. 925,922; June 22; Sp. p. 5945; Gaz. vol. 143; p. 1026.  
 Fire-escape. F. M. Lombard. No. 926,342; June 29; Sp. p. 6820; Gaz. vol. 143; p. 1200.  
 Fire-escape. J. Luckett. No. 926,430; June 29; Sp. p. 6982; Gaz. vol. 143; p. 1230.  
 Fire-escape. J. Krasmer. No. 927,050; July 6; Sp. p. 762; Gaz. vol. 144; p. 119.  
 Fire-escape. W. H. Jay. No. 927,148; July 6; Sp. p. 933; Gaz. vol. 144; p. 151.  
 Fire-escape. T. R. Anderson. No. 927,922; July 13; Sp. p. 2555; Gaz. vol. 144; p. 435.  
 Fire-escape. J. C. Covert. No. 929,288; July 27; Sp. p. 5573; Gaz. vol. 144; p. 946.  
 Fire-escape. P. Stan. No. 929,510; July 27; Sp. p. 5803; Gaz. vol. 144; p. 1018.  
 Fire-escape. D. Weinstock. No. 930,580; Aug. 10; Sp. p. 1967; Gaz. vol. 145; p. 346.  
 Fire-escape. J. P. Smith. No. 930,995; Aug. 10; Sp. p. 2857; Gaz. vol. 145; p. 481.  
 Fire-escape. G. W. Brooks. No. 931,031; Aug. 17; Sp. p. 2946; Gaz. vol. 145; p. 521.  
 Fire-escape. E. J. Cocke. No. 931,040; Aug. 17; Sp. p. 2969; Gaz. vol. 145; p. 525.  
 Fire-escape. H. J. Brackelsberg. No. 932,436; Aug. 31; Sp. p. 5926; Gaz. vol. 145; p. 1033.  
 Fire-escape. J. A. Grove. No. 932,699; Aug. 31; Sp. p. 6508; Gaz. vol. 145; p. 1121.  
 Fire-escape. M. J. Lifshitz. No. 932,793; Aug. 31; Sp. p. 6717; Gaz. vol. 145; p. 1152.  
 Fire-escape. J. H. Wray. No. 933,685; Sept. 7; Sp. p. 1477; Gaz. vol. 146; p. 222.  
 Fire-escape. W. Craine. No. 935,142; Sept. 28; Sp. p. 4370; Gaz. vol. 146; p. 779.  
 Fire-escape. M. S. Woods. No. 935,447; Sept. 28; Sp. p. 4966; Gaz. vol. 146; p. 877.  
 Fire-escape. W. E. Turner. No. 936,193; Oct. 5; Sp. p. 1239; Gaz. vol. 147; p. 187.  
 Fire-escape. C. A. Sturm. No. 936,280; Oct. 5; Sp. p. 1394; Gaz. vol. 147; p. 216.  
 Fire-escape. J. H. Thornburg. No. 936,385; Oct. 12; Sp. p. 1640; Gaz. vol. 147; p. 278.  
 Fire-escape. P. Riesek. No. 937,552; Oct. 19; Sp. p. 4096; Gaz. vol. 147; p. 696.  
 Fire-escape. R. W. Schweimler. No. 937,722; Oct. 19; Sp. p. 4424; Gaz. vol. 147; p. 751.  
 Fire-escape. A. Anderson. No. 938,625; Nov. 2; Sp. p. 408; Gaz. vol. 148; p. 61.  
 Fire-escape. J. E. Andrews. No. 939,375; Nov. 9; Sp. p. 2077; Gaz. vol. 148; p. 346.  
 Fire-escape. A. A. Jahnke. No. 940,601; Nov. 16; Sp. p. 4778; Gaz. vol. 148; p. 796.  
 Fire-escape. C. E. Green and T. C. Brasket. No. 941,246; Nov. 23; Sp. p. 6179; Gaz. vol. 148; p. 1036.  
 Fire-escape. J. B. Albert. No. 942,477; Dec. 7; Sp. p. 943; Gaz. vol. 149; p. 152.  
 Fire-escape. L. Vogl. No. 942,604; Dec. 7; Sp. p. 1193; Gaz. vol. 149; p. 195.  
 Fire-escape apparatus. J. C. F. Sprankle. No. 920,721; Aug. 3; Sp. p. 176; Gaz. vol. 145; p. 31.  
 Fire-escape, Automatic. H. P. Young. No. 916,823; Mar. 30; Sp. p. 6387; Gaz. vol. 140; p. 1142.  
 Fire-escape construction. W. O'Keefe. No. 928,325; July 20; Sp. p. 3413; Gaz. vol. 144; p. 600.

*Alphabetical list of inventions—Continued.*

- Fire-escape, Drop-stair. A. C. Mowrey. No. 937,710; Oct. 19; Sp. p. 4397; Gaz. vol. 147; p. 747.  
 Fire-escape, Portable. J. W. Jeffries. No. 920,956; May 11; Sp. p. 1765; Gaz. vol. 142; p. 313.  
 Fire-escape, Traveling. L. Otter. No. 931,702; Aug. 17; Sp. p. 4385; Gaz. vol. 145; p. 745.  
 Fire-extinguisher. W. H. Banfil. No. 908,727; Jan. 5; Sp. p. 635; Gaz. vol. 138; p. 99.  
 Fire-extinguisher. D. W. Diggs. No. 919,552; Apr. 27; Sp. p. 5579; Gaz. vol. 141; p. 959.  
 Fire-extinguisher. A. C. Badger. No. 924,218; June 5; Sp. p. 2470; Gaz. vol. 143; p. 401.  
 Fire-extinguisher. D. L. Garretson. No. 926,481; June 29; Sp. p. 7065; Gaz. vol. 143; p. 1246.  
 Fire-extinguisher. J. O. Banning. No. 930,123; Aug. 3; Sp. p. 1060; Gaz. vol. 145; p. 170.  
 Fire-extinguisher. W. A. Staff. No. 936,487; Oct. 12; Sp. p. 1884; Gaz. vol. 147; p. 311.  
 Fire-extinguisher. D. H. Conkling. No. 936,985; Oct. 12; Sp. p. 2864; Gaz. vol. 147; p. 478.  
 Fire-extinguisher. F. E. Blodgett. No. 944,715; Dec. 28; Sp. p. 5783; Gaz. vol. 149; p. 1000.  
 Fire-extinguisher and other air-pressure liquid-ejecting vessel. H. T. Blake. No. 931,255; Aug. 17; Sp. p. 3448; Gaz. vol. 145; p. 598.  
 Fire-extinguisher and signaling system, Automatic. R. B. Hewitt and J. G. Nolen. No. 938,859; Nov. 2; Sp. p. 867; Gaz. vol. 148; p. 140.  
 Fire-extinguisher apparatus. H. V. R. Read and R. H. Campbell. No. 940,614; Nov. 16; Sp. p. 4801; Gaz. vol. 148; p. 800.  
 Fire-extinguisher, Automatic. H. C. C. Kast and L. C. Lathrop. No. 920,340; May 4; Sp. p. 510; Gaz. vol. 142; p. 81.  
 Fire-extinguisher, Automatic stationary. W. Esty. No. 931,190; Aug. 17; Sp. p. 3304; Gaz. vol. 145; p. 575.  
 Fire-extinguisher-bottle closure. S. L. Wottring. No. 924,211; June 5; Sp. p. 2457; Gaz. vol. 143; p. 399.  
 Fire-extinguisher, Chemical. G. W. Rankin. No. 923,076; May 25; Sp. p. 6149; Gaz. vol. 142; p. 1066.  
 Fire-extinguisher tanks, Construction of. G. F. Fifer. No. 922,118; May 15; Sp. p. 4159; Gaz. vol. 142; p. 727.  
 Fire-extinguisher valve. A. Blauvelt. No. 940,953; Nov. 23; Sp. p. 5546; Gaz. vol. 148; p. 939.  
 Fire-extinguisher with double nozzle, Chemical. C. Graaff. No. 910,663; Jan. 26; Sp. p. 4533; Gaz. vol. 138; p. 833.  
 Fire-extinguisher with expansion device mounted on the discharge-pipe, Chemical. W. Graaff. No. 920,454; May 4; Sp. p. 736; Gaz. vol. 142; p. 117.  
 Fire-extinguishers, Exchangeable container for chemical. H. Mikorey. No. 923,551; June 1; Sp. p. 964; Gaz. vol. 143; p. 150.  
 Fire-extinguishers or appliances, Link for automatic. W. A. Goldthwait. No. 924,760; June 15; Sp. p. 3586; Gaz. vol. 143; p. 615.  
 Fire-extinguishers, Sprinkler-head for automatic. M. K. Hopkins. No. 935,257; Sept. 28; Sp. p. 4588; Gaz. vol. 146; p. 816.  
 Fire-extinguishing apparatus. C. E. Buell. No. 909,985; Jan. 19; Sp. p. 3137; Gaz. vol. 138; p. 580.  
 Fire-extinguishing apparatus. J. O. Banning. No. 930,122; Aug. 3; Sp. p. 1058; Gaz. vol. 145; p. 170.  
 Fire-extinguishing apparatus. H. V. R. Read and R. H. Campbell. No. 937,549; Oct. 19; Sp. p. 4091; Gaz. vol. 147; p. 695.  
 Fire-extinguishing apparatus, Automatic alarm device for. H. C. Henley and A. B. Crowder. No. 936,889; Oct. 12; Sp. p. 2683; Gaz. vol. 147; p. 447.  
 Fire-extinguishing apparatus for wells. M. E. Layne. No. 910,295; Jan. 19; Sp. p. 3813; Gaz. vol. 138; p. 687.  
 Fire-extinguishing apparatus, Tower for. J. R. McPherson. No. 934,748; Sept. 21; Sp. p. 3560; Gaz. vol. 146; p. 621.  
 Fire-extinguishing apparatus with siphon arrangement. W. Böckem. No. 928,897; July 20; Sp. p. 4538; Gaz. vol. 144; p. 791.  
 Fire-extinguishing device. J. R. Brown. No. 936,086; Oct. 5; Sp. p. 1028; Gaz. vol. 147; p. 156.  
 Fire-extinguishing installation. J. Sheppard and B. Chatterton. No. 920,885; May 4; Sp. p. 1622; Gaz. vol. 142; p. 259.  
 Fire-extinguishing liquid, Frostproof. M. Breslau. No. 914,233; Mar. 2; Sp. p. 1237; Gaz. vol. 140; p. 193.  
 Fire-extinguishing syringe. A. Hruby. No. 936,320; Oct. 12; Sp. p. 1481; Gaz. vol. 147; p. 256.  
 Fire-extinguishing system. C. T. Roberts. No. 925,230; June 15; Sp. p. 4533; Gaz. vol. 143; p. 774.  
 Fire-extinguishing system, Automatic. J. B. Erwin. No. 912,370; Feb. 16; Sp. p. 2777; Gaz. vol. 139; p. 506.  
 Fire-hose carrier. H. L. Jenkins. No. 918,159; Apr. 13; Sp. p. 2430; Gaz. vol. 141; p. 435.  
 Fire-hose coupling. H. J. Hickey. No. 941,990; Nov. 30; Sp. p. 7759; Gaz. vol. 148; p. 1307.  
 Fire-hose nozzle. J. B. Winfield and C. F. Ackerman. No. 924,867; June 15; Sp. p. 3812; Gaz. vol. 143; p. 651.  
 Fire-hose protection-nozzle. M. J. Sanger. No. 930,800; Aug. 10; Sp. p. 2414; Gaz. vol. 145; p. 418.  
 Fire-hydrant emergency-coupling. J. B. Fuller. No. 911,123; Feb. 2; Sp. p. 191; Gaz. vol. 139; p. 36.  
 Fire-kindler. M. Sendlein. No. 908,615; Jan. 5; Sp. p. 389; Gaz. vol. 138; p. 63.  
 Fire-kindler, Automatic. J. C. St. Clair. No. 919,085; Apr. 20; Sp. p. 4397; Gaz. vol. 141; p. 768.  
 Fire-kindler composition. R. M. Sheets. No. 930,803; Aug. 10; Sp. p. 2419; Gaz. vol. 145; p. 419.  
 Fire-kindling compound and making same. W. Geneslaw. No. 924,055; June 8; Sp. p. 2075; Gaz. vol. 143; p. 346.  
 Fire-lighter. G. Hedger. No. 915,596; Mar. 16; Sp. p. 3999; Gaz. vol. 140; p. 691.  
 Fire-lighter. H. O. Baddley. No. 923,315; June 1; Sp. p. 482; Gaz. vol. 143; p. 68.  
 Fire-lighter, Automatic. S. E. Gamble. No. 908,851; Jan. 5; Sp. p. 870; Gaz. vol. 138; p. 138.  
 Fire-lighting device. J. Fero. No. 924,752; June 15; Sp. p. 3564; Gaz. vol. 143; p. 612.  
 Fire-pail, Air-tight. C. F. Crane. No. 939,220; Nov. 9; Sp. p. 1658; Gaz. vol. 148; p. 292.  
 Fire-pails and other articles, Safety locking device for. T. F. Mullaney. No. 920,368; May 4; Sp. p. 564; Gaz. vol. 142; p. 90.  
 Fire-plug. E. W. Smith. No. 926,027; June 22; Sp. p. 6148; Gaz. vol. 143; p. 1061.  
 Fire-pot. C. F. Coda. No. 913,812; Mar. 2; Sp. p. 281; Gaz. vol. 140; p. 48.  
 Fire protection and signal system. J. E. Shepherd. No. 941,048; Nov. 23; Sp. p. 5746; Gaz. vol. 148; p. 970.  
 Fire-protection-signal system. J. G. Nolen and J. E. Shepherd. No. 913,041; Feb. 23; Sp. p. 4171; Gaz. vol. 139; p. 755.  
 Fire-protection-signal system. J. G. Nolen and J. E. Shepherd. No. 939,293; Nov. 9; Sp. p. 1839; Gaz. vol. 148; p. 311.  
 Fire-protection system. H. B. Helm. No. 914,721; Mar. 9; Sp. p. 2246; Gaz. vol. 140; p. 377.  
 Fire-resisting curtain, Flexible. E. H. McCloud. No. 910,218; Jan. 19; Sp. p. 3616; Gaz. vol. 138; p. 657.  
 Fire-resisting shutter and slat therefor, Flexible. E. H. McCloud. No. 935,125; Sept. 28; Sp. p. 4335; Gaz. vol. 146; p. 773.  
 Fire-screen. G. A. H. Briggs. No. 920,423; May 4; Sp. p. 685; Gaz. vol. 142; p. 108.  
 Fire-shield, Collapsible. J. A. Dennis. No. 935,248; Sept. 28; Sp. p. 4572; Gaz. vol. 146; p. 813.  
 Fire-shovel and ash-sifter, Combined. I. Portnoy. No. 944,501; Dec. 28; Sp. p. 5325; Gaz. vol. 149; p. 928.  
 Fire-shutter, Automatically-closing. A. Rush. No. 910,234; Jan. 19; Sp. p. 3653; Gaz. vol. 138; p. 664.  
 Fire-shutter, Automatically-closing. A. Rush. No. 926,138; June 29; Sp. p. 6388; Gaz. vol. 143; p. 1133.  
 Fire-system high-pressure connection. W. T. Cameron. No. 916,268; Mar. 23; Sp. p. 5301; Gaz. vol. 140; p. 938.  
 Fire, water, and oil resistant articles, Making. I. L. Roberts. No. 921,002; May 11; Sp. p. 1848; Gaz. vol. 142; p. 328.  
 Fires in mines, Extinguishing. F. T. Byers. No. 924,599; June 8; Sp. p. 3231; Gaz. vol. 143; p. 527.  
 Firing and fuse-regulating mechanism, Combined. W. Fritsch and A. Springer. No. 922,877; May 25; Sp. p. 5757; Gaz. vol. 142; p. 1003.  
 Firearm. H. B. Febiger. No. 908,552; Jan. 5; Sp. p. 251; Gaz. vol. 138; p. 43.  
 Firearm. H. B. Febiger. No. 908,553; Jan. 5; Sp. p. 255; Gaz. vol. 138; p. 43.  
 Firearm. J. D. Pedersen. No. 908,883; Jan. 5; Sp. p. 936; Gaz. vol. 138; p. 149.  
 Firearm. F. D. Ely. No. 908,982; Jan. 5; Sp. p. 1143; Gaz. vol. 138; p. 151.  
 Firearm. A. J. Aubrey. No. 911,362; Feb. 2; Sp. p. 666; Gaz. vol. 139; p. 113.  
 Firearm. L. L. Hepburn. No. 918,447; Apr. 13; Sp. p. 3007; Gaz. vol. 141; p. 529.  
 Firearm. H. Poettich. No. 923,701; June 1; Sp. p. 1295; Gaz. vol. 143; p. 201.  
 Firearm. P. Mauser. No. 924,169; June 8; Sp. p. 2341; Gaz. vol. 143; p. 384.  
 Firearm. B. Behr. No. 926,456; June 29; Sp. p. 7027; Gaz. vol. 143; p. 1239.  
 Firearm. N. Pieper. No. 927,070; July 6; Sp. p. 785; Gaz. vol. 144; p. 125.  
 Firearm. L. L. Hepburn. No. 927,464; July 6; Sp. p. 1552; Gaz. vol. 144; p. 255.  
 Firearm. J. Maudry. No. 930,305; Aug. 3; Sp. p. 1375; Gaz. vol. 145; p. 228.  
 Firearm. J. Keith and M. L. Bristol. No. 930,865; Aug. 10; Sp. p. 2549; Gaz. vol. 145; p. 440.  
 Firearm. W. L. Marble. No. 931,328; Aug. 17; Sp. p. 3617; Gaz. vol. 145; p. 624.  
 Firearm. T. C. Johnson. No. 933,253; Sept. 7; Sp. p. 515; Gaz. vol. 146; p. 79.  
 Firearm. T. C. Johnson. No. 933,308; Sept. 7; Sp. p. 622; Gaz. vol. 146; p. 97.  
 Firearm. A. Fyrberg. No. 935,102; Sept. 28; Sp. p. 4289; Gaz. vol. 146; p. 767.  
 Firearm. A. J. Savage. No. 935,237; Sept. 28; Sp. p. 4547; Gaz. vol. 146; p. 809.  
 Firearm. G. S. Lewis. No. 939,142; Nov. 2; Sp. p. 1470; Gaz. vol. 148; p. 239.  
 Firearm. S. B. Smith. No. 941,662; Nov. 30; Sp. p. 7068; Gaz. vol. 148; p. 1195.  
 Firearm. T. C. Johnson. No. 943,251; Dec. 14; Sp. p. 2623; Gaz. vol. 149; p. 444.  
 Firearm. C. F. Lefever. No. 944,448; Dec. 28; Sp. p. 5183; Gaz. vol. 149; p. 909.  
 Firearm, Automatic. M. G. Farquhar and A. H. Hill. No. 920,301; May 4; Sp. p. 447; Gaz. vol. 142; p. 69.  
 Firearm, Automatic. J. J. Reifgraber. No. 929,491; July 27; Sp. p. 5766; Gaz. vol. 144; p. 1012.  
 Firearm, Automatic. F. F. Knous. No. 933,254; Sept. 7; Sp. p. 517; Gaz. vol. 146; p. 79.  
 Firearm, Automatic. T. Martin. No. 935,672; Oct. 5; Sp. p. 104; Gaz. vol. 147; p. 18.  
 Firearm, Automatic. W. J. Whiting. No. 939,882; Nov. 9; Sp. p. 3145; Gaz. vol. 148; p. 519.  
 Firearm auxiliary stock. H. Renfors. No. 914,675; Mar. 9; Sp. p. 2158; Gaz. vol. 140; p. 362.  
 Firearm hammer-indicator. F. C. Chadwick. No. 923,244; June 1; Sp. p. 259; Gaz. vol. 143; p. 43.  
 Firearm-lock. T. Köfler. No. 941,260; Nov. 23; Sp. p. 6203; Gaz. vol. 148; p. 1041.



*Alphabetical list of inventions—Continued.*

- Firearm lock mechanism, Automatic. A. W. Schwarzlose. No. 932,183; Aug. 24; Sp. p. 5436; Gaz. vol. 145; p. 926.
- Firearm, Magazine. A. J. Savage. No. 910,236; Jan. 19; Sp. p. 3659; Gaz. vol. 138; p. 665.
- Firearm, Magazine. T. A. Fidelity. No. 920,303; May 4; Sp. p. 450; Gaz. vol. 142; p. 69.
- Firearm, Magazine. T. R. R. Ashton. No. 931,983; Aug. 24; Sp. p. 5017; Gaz. vol. 145; p. 859.
- Firearm, Magazine. J. Rebm. No. 940,191; Nov. 16; Sp. p. 3868; Gaz. vol. 148; p. 657.
- Firearm, Magazine. H. W. De Jarnatt. No. 940,791; Nov. 23; Sp. p. 5219; Gaz. vol. 148; p. 886.
- Firearm, Magazine. L. L. Hepburn. No. 943,828; Dec. 21; Sp. p. 3858; Gaz. vol. 149; p. 671.
- Firearm recoil-absorber. G. Basdale. No. 910,276; Jan. 19; Sp. p. 3774; Gaz. vol. 138; p. 680.
- Firearm, Repeating. W. H. Gates. No. 934,158; Sept. 14; Sp. p. 2433; Gaz. vol. 146; p. 400.
- Firearm, Repeating. G. S. Lewis. No. 935,314; Sept. 28; Sp. p. 4705; Gaz. vol. 146; p. 835.
- Firearm, Revolving. O. W. Ringqvist. No. 931,146; Aug. 17; Sp. p. 3219; Gaz. vol. 145; p. 561.
- Firearm safety device. W. H. Gates. No. 917,045; Apr. 6; Sp. p. 171; Gaz. vol. 141; p. 32.
- Firearm safety device. C. J. Ehbets. No. 917,723; Apr. 6; Sp. p. 1479; Gaz. vol. 141; p. 259.
- Firearm safety mechanism. W. H. Gates. No. 934,065; Sept. 14; Sp. p. 2222; Gaz. vol. 146; p. 367.
- Firearm-sight. J. C. Hightower, Jr., and C. A. Burrell. No. 920,137; May 4; Sp. p. 95; Gaz. vol. 142; p. 14.
- Firearm-sight. W. J. C. Downey. No. 939,813; Nov. 9; Sp. p. 3010; Gaz. vol. 143; p. 496.
- Firearm-sight. J. M. Stephens. No. 942,946; Dec. 14; Sp. p. 1962; Gaz. vol. 149; p. 341.
- Firearm-sight. L. B. Shepard. No. 944,916; Dec. 28; Sp. p. 6218; Gaz. vol. 149; p. 1069.
- Firearm, Silent. H. P. Maxim. No. 916,885; Mar. 30; Sp. p. 6503; Gaz. vol. 140; p. 1162.
- Firearm telescope-sight. G. F. Matteson. No. 912,011; Feb. 9; Sp. p. 2029; Gaz. vol. 139; p. 353.
- Firearm with cylindrical breech, Semi-automatic. B. Goebel. No. 909,398; Jan. 12; Sp. p. 1954; Gaz. vol. 138; p. 348.
- Firearm with forward sliding barrel, Automatic. A. W. Schwarzlose. No. 918,380; Apr. 13; Sp. p. 2875; Gaz. vol. 141; p. 508.
- Firearms, Automatic safety device for. R. Frommer. No. 944,606; Dec. 28; Sp. p. 5565; Gaz. vol. 149; p. 965.
- Firearms, Breech mechanism for self-loading. L. Schmeisser. No. 909,233; Jan. 12; Sp. p. 1645; Gaz. vol. 138; p. 296.
- Firearms, Cartridge-feed for. A. B. Carey. No. 924,732; June 15; Sp. p. 3519; Gaz. vol. 143; p. 605.
- Firearms, Combined firing-pin and ejector for. J. D. Pedersen. No. 936,806; Oct. 12; Sp. p. 2519; Gaz. vol. 147; p. 420.
- Firearms, especially for recoil-loading firearms, Magazine arrangement for. P. Mauser. No. 922,497; May 25; Sp. p. 4931; Gaz. vol. 142; p. 878.
- Firearms, Illuminated sight for. E. O. Deere and T. O. Jäderborg. No. 920,278; May 4; Sp. p. 409; Gaz. vol. 142; p. 62.
- Firearms, Light-projecting attachment for. H. A. Foss. No. 924,445; June 8; Sp. p. 2908; Gaz. vol. 143; p. 476.
- Firearms, Magazine cut-off for repeating. J. H. Wheeler. No. 940,764; Nov. 23; Sp. p. 5150; Gaz. vol. 148; p. 876.
- Firearms, Movement for. H. B. Feibiger. No. 943,344; Dec. 14; Sp. p. 2827; Gaz. vol. 149; p. 476.
- Firearms, Rebounding hammer for. F. C. Chadwick. No. 923,113; May 25; Sp. p. 6222; Gaz. vol. 142; p. 1079.
- Firearms, Recoil-pad for. M. B. Parker. No. 935,163; Sept. 28; Sp. p. 4403; Gaz. vol. 146; p. 786.
- Firearms, &c., Safety device for. P. Mauser. No. 930,206; Aug. 3; Sp. p. 1207; Gaz. vol. 145; p. 198.
- Firearms, Safety device for the triggers of. H. Stephan. No. 920,682; May 4; Sp. p. 1207; Gaz. vol. 142; p. 194.
- Firearms, Single trigger for double-barreled. A. A. Stutzman. No. 922,354; May 18; Sp. p. 4614; Gaz. vol. 142; p. 802.
- Firearms, Trigger-movement for self-loading. D. W. Tomlinson, Jr. No. 944,832; Dec. 28; Sp. p. 6046; Gaz. vol. 149; p. 1040.
- Fireman's equipment. L. S. Meikle. No. 932,880; Aug. 31; Sp. p. 6869; Gaz. vol. 145; p. 1179.
- Fireman's mask. R. E. Cheesman. No. 911,476; Feb. 2; Sp. p. 854; Gaz. vol. 139; p. 151.
- Fireplace. T. J. Harper. No. 922,422; May 18; Sp. p. 4768; Gaz. vol. 142; p. 827.
- Fireplace. W. W. Guy. No. 926,183; June 29; Sp. p. 6502; Gaz. vol. 143; p. 1150.
- Fireplace. C. L. Taylor. No. 926,910; July 6; Sp. p. 432; Gaz. vol. 144; p. 69.
- Fireplace andirons and fender. E. and V. T. Yarborough. No. 944,980; Dec. 28; Sp. p. 6344; Gaz. vol. 149; p. 1089.
- Fireplace attachment. L. A. Maiden. No. 926,344; June 29; Sp. p. 6823; Gaz. vol. 143; p. 1200.
- Fireplace-guard. J. A. Autry. No. 915,535; Mar. 16; Sp. p. 3855; Gaz. vol. 140; p. 370.
- Fireplace, Portable. P. Bernstein. No. 923,318; June 1; Sp. p. 486; Gaz. vol. 143; p. 69.
- Fireproof beam. G. W. Brooks. No. 928,935; July 27; Sp. p. 4623; Gaz. vol. 144; p. 829.
- Fireproof building construction. C. Collins. (Reissue.) No. 12,922; Feb. 23; Sp. p. 5502; Gaz. vol. 139; p. 969.
- Fireproof construction. W. F. Potthoff. No. 928,153; July 13; Sp. p. 2981; Gaz. vol. 144; p. 510.
- Fireproof construction. A. Priddle. No. 944,502; Dec. 28; Sp. p. 5327; Gaz. vol. 149; p. 928.
- Fireproof covering. A. O. Brigrance. No. 913,464; Feb. 23; Sp. p. 5027; Gaz. vol. 139; p. 898.
- Fireproof floor, (concrete beam.) J. H. Magdiel. No. 923,363; June 1; Sp. p. 583; Gaz. vol. 143; p. 84.
- Fireproof floor, (I-beam construction.) D. H. Magdiel. No. 914,589; Mar. 9; Sp. p. 1963; Gaz. vol. 140; p. 335.
- Fireproof girder. W. Herbst and E. Dieckmann. No. 910,059; Jan. 19; Sp. p. 3275; Gaz. vol. 138; p. 604.
- Fireproof material. J. W. Aylsworth. No. 914,222; Mar. 2; Sp. p. 1204; Gaz. vol. 140; p. 189.
- Fireproof partition. W. Orr. No. 913,152; Feb. 23; Sp. p. 4387; Gaz. vol. 139; p. 793.
- Fireproof partition, Reinforced. J. Comerma. No. 922,393; May 18; Sp. p. 4715; Gaz. vol. 142; p. 817.
- Fireproof structure. C. W. Denny. No. 930,160; Aug. 3; Sp. p. 1136; Gaz. vol. 145; p. 184.
- First-aid package. J. E. Lee. No. 922,435; May 18; Sp. p. 4801; Gaz. vol. 142; p. 831.
- Fish and animal catching hook. W. Gabrielson. No. 922,879; May 25; Sp. p. 5760; Gaz. vol. 142; p. 1004.
- Fish, &c., Apparatus for treating. A. C. Pearson. No. 937,172; Oct. 19; Sp. p. 3271; Gaz. vol. 147; p. 570.
- Fish artificial bait. B. F. Burke. No. 913,102; Feb. 23; Sp. p. 4282; Gaz. vol. 139; p. 776.
- Fish-dressing machine. J. M. Meredith, Jr. No. 926,582; June 29; Sp. p. 7241; Gaz. vol. 143; p. 1280.
- Fish-hook. A. S. Hickey. No. 911,040; Feb. 2; Sp. p. 33; Gaz. vol. 139; p. 8.
- Fish-hook. C. W. Bradley and G. R. Unkefer. No. 914,478; Mar. 9; Sp. p. 1737; Gaz. vol. 140; p. 298.
- Fish-hook. C. M. Willis. No. 914,906; Mar. 9; Sp. p. 2619; Gaz. vol. 140; p. 438.
- Fish-hook. R. L. Sheward. No. 918,206; Apr. 13; Sp. p. 2534; Gaz. vol. 141; p. 452.
- Fish-hook. J. L. Chesser. No. 929,914; Aug. 3; Sp. p. 627; Gaz. vol. 145; p. 99.
- Fish-hook. W. E. Koch. No. 940,465; Nov. 16; Sp. p. 4494; Gaz. vol. 148; p. 751.
- Fish-hook, Artificial-fly. C. D. Caldwell. No. 919,820; Apr. 27; Sp. p. 6155; Gaz. vol. 141; p. 1050.
- Fish-hook, Automatic. B. Timmons. No. 911,781; Feb. 9; Sp. p. 1483; Gaz. vol. 139; p. 277.
- Fish-hook coupling-link. C. G. Davis. No. 918,017; Apr. 13; Sp. p. 2152; Gaz. vol. 141; p. 387.
- Fish-hook holder, Snelled-. C. F. West. No. 909,722; Jan. 12; Sp. p. 2606; Gaz. vol. 138; p. 461.
- Fish-iron. C. Schröder and J. Christiansen. No. 911,167; Feb. 2; Sp. p. 286; Gaz. vol. 139; p. 50.
- Fish-line float. J. Garrard. No. 928,439; July 20; Sp. p. 3621; Gaz. vol. 144; p. 639.
- Fish-lure. C. M. Wilcox. No. 923,095; May 25; Sp. p. 6186; Gaz. vol. 142; p. 1073.
- Fish opener, Shell-. J. A. Lloyd. No. 943,982; Dec. 21; Sp. p. 4187; Gaz. vol. 149; p. 725.
- Fish-plate. L. W. Ackerson. No. 927,394; July 6; Sp. p. 1377; Gaz. vol. 144; p. 229.
- Fish-plate and rail-chair, Combined. T. Parks and J. Coughlin. No. 929,480; July 27; Sp. p. 5752; Gaz. vol. 144; p. 1010.
- Fish, Preserving. J. D. Young. No. 921,328; May 11; Sp. p. 2539; Gaz. vol. 142; p. 440.
- Fish-scaler. G. Lafrentz. No. 916,725; Mar. 30; Sp. p. 6214; Gaz. vol. 140; p. 1112.
- Fish-scaling machine. A. Grub. No. 935,602; Sept. 28; Sp. p. 5296; Gaz. vol. 146; p. 929.
- Fish-screen, Self-cleaning. G. R. Maycock and G. E. Averett. No. 916,570; Mar. 30; Sp. p. 5934; Gaz. vol. 140; p. 1065.
- Fish-stringer. L. B. Mullins. No. 918,462; Apr. 13; Sp. p. 3040; Gaz. vol. 141; p. 534.
- Fish-stringer. J. Dineen. No. 927,840; July 13; Sp. p. 2377; Gaz. vol. 144; p. 407.
- Fish-stringing device. W. G. Callender. No. 936,701; Oct. 12; Sp. p. 2320; Gaz. vol. 147; p. 385.
- Fish-stringing device. R. Coleman. No. 928,427; July 20; Sp. p. 3589; Gaz. vol. 144; p. 635.
- Fish-tape coupling. F. A. Swan. No. 938,723; Nov. 2; Sp. p. 594; Gaz. vol. 148; p. 93.
- Fish-trap. E. Jumisko. No. 918,058; Apr. 13; Sp. p. 2238; Gaz. vol. 141; p. 402.
- Fish-trap. J. H. Wilson. No. 925,972; June 22; Sp. p. 6037; Gaz. vol. 143; p. 1043.
- Fish-trap. F. J. McEwan. No. 928,143; July 13; Sp. p. 2904; Gaz. vol. 144; p. 507.
- Fishing apparatus. J. F. and J. F. Woessley. No. 935,877; Oct. 5; Sp. p. 599; Gaz. vol. 147; p. 86.
- Fishing appliance. E. Schildbach. No. 916,891; Mar. 30; Sp. p. 6515; Gaz. vol. 140; p. 1164.
- Fishing-bob. F. F. Wooton. No. 943,506; Dec. 14; Sp. p. 3169; Gaz. vol. 149; p. 533.
- Fishing-case, Portable. W. H. Thornton. No. 908,903; Jan. 5; Sp. p. 976; Gaz. vol. 138; p. 155.
- Fishing device. C. E. Evans and A. A. Heisler. No. 934,150; Sept. 14; Sp. p. 2420; Gaz. vol. 146; p. 397.
- Fishing-float. A. A. Owens. No. 943,450; Dec. 14; Sp. p. 3048; Gaz. vol. 149; p. 512.
- Fishing-gig. L. C. Perry. No. 923,573; June 1; Sp. p. 1025; Gaz. vol. 143; p. 157.
- Fishing-hook, Gang. S. R. Sutton. No. 913,440; Feb. 23; Sp. p. 4973; Gaz. vol. 139; p. 890.
- Fishing-line reels, Attaching device for. E. W. Kurtz, Sr. No. 923,664; June 1; Sp. p. 1221; Gaz. vol. 143; p. 188.
- Fishing-pole. J. F. Scanlan. No. 919,778; Apr. 27; Sp. p. 6025; Gaz. vol. 141; p. 1036.

*Alphabetical list of inventions—Continued.*

- Fishing-reel. L. D. Jordan. No. 916,712; Mar. 30; Sp. p. 6191; Gaz. vol. 140; p. 1109.  
 Fishing-reel. D. H. Studwell. No. 929,341; July 27; Sp. p. 5516; Gaz. vol. 144; p. 966.  
 Fishing-reel. A. F. Meisselbach and P. Catucci. No. 929,867; Aug. 3; Sp. p. 515; Gaz. vol. 145; p. 83.  
 Fishing-reel. C. Durkee and C. C. Briggs. No. 943,820; Dec. 21; Sp. p. 3844; Gaz. vol. 149; p. 668.  
 Fishing-reel attachment. C. W. Unger. No. 932,837; Aug. 31; Sp. p. 6792; Gaz. vol. 145; p. 1165.  
 Fishing-reel line-guide. W. A. Austin. No. 938,948; Nov. 2; Sp. p. 1092; Gaz. vol. 148; p. 173.  
 Fishing-reels. Drag-handle for. T. M. Williams. No. 940,415; Nov. 16; Sp. p. 4392; Gaz. vol. 148; p. 735.  
 Fishing-rod. W. J. Farr. No. 911,119; Feb. 2; Sp. p. 186; Gaz. vol. 139; p. 35.  
 Fishing-rod. J. B. Fischer. No. 912,552; Feb. 16; Sp. p. 3169; Gaz. vol. 139; p. 568.  
 Fishing-rod. E. H. Crane. No. 931,277; Aug. 17; Sp. p. 3595; Gaz. vol. 145; p. 606.  
 Fishing-rod. W. A. Austin. No. 942,030; Nov. 30; Sp. p. 7831; Gaz. vol. 148; p. 1319.  
 Fishing-rod attachment. H. H. Crosier. No. 911,117; Feb. 2; Sp. p. 182; Gaz. vol. 139; p. 34.  
 Fishing-rod support. C. W. Unger. No. 919,981; Apr. 27; Sp. p. 6451; Gaz. vol. 141; p. 1102.  
 Fishing-tackle box. J. M. Kersey. No. 920,751; May 4; Sp. p. 1328; Gaz. vol. 142; p. 215.  
 Fishing-tool. W. S. Boggs. No. 944,768; Dec. 28; Sp. p. 5906; Gaz. vol. 149; p. 1018.  
 Fitting-table, Dressmaker's. V. H. Canham. No. 913,692; Mar. 2; Sp. p. 26; Gaz. vol. 140; p. 7.  
 Fixture joint, Sanitary. E. C. Stover. No. 912,753; Feb. 16; Sp. p. 3631; Gaz. vol. 139; p. 639.  
 Fixture support. M. W. Pitner. No. 911,441; Feb. 2; Sp. p. 798; Gaz. vol. 139; p. 139.  
 Flag. W. G. Bell. No. 916,979; Apr. 6; Sp. p. 30; Gaz. vol. 141; p. 9.  
 Flag and banner support. E. H. B. Lindhorst. No. 925,206; June 15; Sp. p. 4487; Gaz. vol. 143; p. 766.  
 Flag or signal. G. W. Dallimore. No. 938,221; Oct. 26; Sp. p. 5492; Gaz. vol. 147; p. 939.  
 Flagstaff. H. N. B. Fisher. No. 921,216; May 11; Sp. p. 2296; Gaz. vol. 142; p. 403.  
 Flagstaff. P. Kocsis. No. 944,269; Dec. 28; Sp. p. 4733; Gaz. vol. 149; p. 846.  
 Flakes, Making thin metallic. T. A. Edison. No. 914,372; Mar. 2; Sp. p. 1536; Gaz. vol. 140; p. 237.  
 Flaking-machine. E. M. Lawrence. No. 913,018; Feb. 23; Sp. p. 4120; Gaz. vol. 139; p. 748.  
 Flange finder, Broken. J. Jenkins. No. 937,307; Oct. 19; Sp. p. 3549; Gaz. vol. 147; p. 614.  
 Flange-union. S. J. Davis. No. 922,755; May 25; Sp. p. 5476; Gaz. vol. 142; p. 963.  
 Flanged pipe. C. Gordon. No. 940,870; Nov. 23; Sp. p. 5377; Gaz. vol. 148; p. 911.  
 Flanging-head for receptacles. L. C. Krummel. No. 944,791; Dec. 28; Sp. p. 5949; Gaz. vol. 149; p. 1026.  
 Flanging-machine. C. L. Finch. No. 914,034; Mar. 2; Sp. p. 827; Gaz. vol. 140; p. 127.  
 Flanging-machine. J. Brenzinger. No. 936,598; Oct. 12; Sp. p. 2100; Gaz. vol. 147; p. 349.  
 Flash-light. J. Anderson. No. 938,945; Nov. 2; Sp. p. 1087; Gaz. vol. 148; p. 172.  
 Flash-light apparatus. J. W. Underwood. No. 939,354; Nov. 9; Sp. p. 2010; Gaz. vol. 148; p. 339.  
 Flash-light apparatus. J. A. Smith. No. 942,941; Dec. 14; Sp. p. 1950; Gaz. vol. 149; p. 339.  
 Flash-light apparatus, Photographic. T. C. Smith. No. 916,894; Mar. 30; Sp. p. 6522; Gaz. vol. 140; p. 1165.  
 Flash-light composition. C. Bethge. No. 918,818; Apr. 20; Sp. p. 3866; Gaz. vol. 141; p. 682.  
 Flasher, Double-circuit. W. J. Phelps. No. 921,625; May 11; Sp. p. 3149; Gaz. vol. 142; p. 538.  
 Flask. *See* Foundry-flask; Mold-flask; Molder's flask; Molder's snap-flask; Molding-flask; Sand-mold flask.  
 Flask. J. L. Butler. No. 921,949; May 13; Sp. p. 3834; Gaz. vol. 142; p. 971.  
 Flask. L. W. Daman. No. 940,858; Nov. 23; Sp. p. 5351; Gaz. vol. 148; p. 907.  
 Flask-clamp. J. H. Jones. No. 911,015; Jan. 26; Sp. p. 5251; Gaz. vol. 138; p. 946.  
 Flask connection, Molding. C. W. Clark. No. 915,270; Mar. 16; Sp. p. 3340; Gaz. vol. 140; p. 583.  
 Flask-heater. T. R. Urmston. No. 915,510; Mar. 16; Sp. p. 3808; Gaz. vol. 140; p. 662.  
 Flask, Molder's. J. F. Lamb. No. 914,585; Mar. 9; Sp. p. 1955; Gaz. vol. 140; p. 333.  
 Flat-iron. J. E. Harriman, Jr. No. 921,541; May 11; Sp. p. 2968; Gaz. vol. 142; p. 510.  
 Flat-iron. G. H. Heindelman. No. 931,198; Aug. 17; Sp. p. 3330; Gaz. vol. 145; p. 579.  
 Flat-iron, Electrically-heated. E. D. Holley and C. L. Root. No. 912,471; Feb. 16; Sp. p. 2986; Gaz. vol. 139; p. 540.  
 Flat-iron heater. J. Hagen. No. 914,267; Mar. 2; Sp. p. 1310; Gaz. vol. 140; p. 203.  
 Flat-iron heater. J. J. McCarthy. No. 919,060; Apr. 20; Sp. p. 4357; Gaz. vol. 141; p. 761.  
 Flat-iron heater. E. B. Prendergast. No. 930,417; Aug. 10; Sp. p. 1599; Gaz. vol. 145; p. 290.  
 Flat-iron heater. R. W. Roberts. No. 944,380; Dec. 28; Sp. p. 5030; Gaz. vol. 149; p. 855.  
 Flat-iron, Self-heating. C. S. Konigsberg and W. Allen. No. 940,466; Nov. 16; Sp. p. 4495; Gaz. vol. 148; p. 751.  
 Flat-iron stand. W. L. Heady. No. 918,148; Apr. 13; Sp. p. 2412; Gaz. vol. 141; p. 432.  
 Flax and other fiber-yielding plants, Machine for treating. E. Bosse. No. 919,532; Apr. 27; Sp. p. 5539; Gaz. vol. 141; p. 952.  
 Flax felt. J. E. Lappen. No. 908,681; Jan. 5; Sp. p. 538; Gaz. vol. 138; p. 83.  
 Flax-puller. W. G. Griffin. No. 927,039; July 6; Sp. p. 715; Gaz. vol. 144; p. 113.  
 Flaying-knife and the like. J. Coomber. No. 933,626; Sept. 7; Sp. p. 1357; Gaz. vol. 146; p. 202.  
 Flexible coupling. E. Thomson and R. H. Rice. No. 925,731; June 22; Sp. p. 5521; Gaz. vol. 143; p. 963.  
 Flexible material, Device for feeding. F. L. Cummings. No. 933,890; Sept. 14; Sp. p. 1887; Gaz. vol. 146; p. 312.  
 Flier. W. Knowles. No. 909,426; Jan. 12; Sp. p. 2012; Gaz. vol. 138; p. 358.  
 Flier. F. H. Martin. No. 913,646; Feb. 23; Sp. p. 5447; Gaz. vol. 139; p. 959.  
 Flight-extractor. O. Soles. No. 943,322; Dec. 14; Sp. p. 2767; Gaz. vol. 149; p. 467.  
 Float-ball and float-valve connection. A. E. Noonan. No. 938,071; Oct. 26; Sp. p. 5159; Gaz. vol. 147; p. 886.  
 Float-coupling. C. Dargent. No. 939,397; Nov. 9; Sp. p. 2118; Gaz. vol. 148; p. 353.  
 Flood-gate. J. M. Burkett. No. 911,290; Feb. 2; Sp. p. 532; Gaz. vol. 139; p. 91.  
 Flood-gate. E. F. Rhodes. No. 944,210; Dec. 21; Sp. p. 4660; Gaz. vol. 149; p. 799.  
 Flood-gate, Automatic. O. Olson. No. 910,717; Jan. 26; Sp. p. 4674; Gaz. vol. 138; p. 850.  
 Floor. P. Languth. No. 913,519; Feb. 23; Sp. p. 5130; Gaz. vol. 139; p. 915.  
 Floor and ceiling plate and making the same. C. B. Simmons. No. 930,624; Aug. 10; Sp. p. 2062; Gaz. vol. 145; p. 361.  
 Floor and roof construction. J. G. Zwicker. No. 929,364; July 27; Sp. p. 5557; Gaz. vol. 144; p. 974.  
 Floor-cleaner. G. W. Ansley. No. 913,801; Mar. 2; Sp. p. 261; Gaz. vol. 140; p. 44.  
 Floor-conduit and detachable cover therefor. C. W. Wachtel, Jr. No. 922,368; May 18; Sp. p. 4646; Gaz. vol. 142; p. 808.  
 Floor construction. J. Kahn. No. 926,497; June 29; Sp. p. 7090; Gaz. vol. 143; p. 1251.  
 Floor-covering joint. J. I. Howard. No. 924,355; June 8; Sp. p. 2745; Gaz. vol. 143; p. 448.  
 Floor-coverings, Seam-binder for. O. C. Zimmerschied. No. 933,611; Sept. 7; Sp. p. 1333; Gaz. vol. 146; p. 198.  
 Floor-drain. G. J. Dehn. No. 935,000; Sept. 28; Sp. p. 4082; Gaz. vol. 146; p. 731.  
 Floor-dressing machine. G. J. Kepplinger. No. 927,548; July 13; Sp. p. 1731; Gaz. vol. 144; p. 309.  
 Floor-dressing machine. A. W. Kohl and E. G. Walter. No. 929,140; July 27; Sp. p. 5053; Gaz. vol. 144; p. 898.  
 Floor-dressing machine. O. E. Johnson and E. A. Long. No. 935,911; Oct. 5; Sp. p. 666; Gaz. vol. 147; p. 97.  
 Floor-dressing machine. L. H. Veronneau. No. 942,474; Dec. 7; Sp. p. 937; Gaz. vol. 149; p. 151.  
 Floor-dressing machine. S. D. Hoy. No. 942,830; Dec. 7; Sp. p. 1651; Gaz. vol. 149; p. 269.  
 Floor-dressing machine. W. S. Haven. No. 944,862; Dec. 28; Sp. p. 6117; Gaz. vol. 149; p. 1051.  
 Floor-dressing machine. W. S. Haven. No. 944,963; Dec. 28; Sp. p. 6303; Gaz. vol. 149; p. 1083.  
 Floor-jack. A. Junker. No. 940,695; Nov. 23; Sp. p. 4996; Gaz. vol. 148; p. 853.  
 Floor or like construction. H. N. Wilson. No. 910,757; Jan. 26; Sp. p. 4773; Gaz. vol. 138; p. 863.  
 Floor or wall, Tiled. A. C. Eggers. No. 910,801; Jan. 26; Sp. p. 4860; Gaz. vol. 138; p. 878.  
 Floor-polisher. J. F. Weber. No. 913,863; Mar. 2; Sp. p. 408; Gaz. vol. 140; p. 66.  
 Floor-polishing machine. I. B. Barriere. No. 926,232; June 29; Sp. p. 6611; Gaz. vol. 143; p. 1166.  
 Floor polishing machine, Stone and concrete. F. O. Streed and L. J. Larson. No. 924,704; June 15; Sp. p. 3462; Gaz. vol. 143; p. 596.  
 Floor-sander. J. G. Henderson. No. 915,597; Mar. 16; Sp. p. 4000; Gaz. vol. 140; p. 691.  
 Floor-scraper. J. L. Hearing. No. 909,406; Jan. 12; Sp. p. 1970; Gaz. vol. 138; p. 351.  
 Floor-scraper. J. C. Peltier. No. 917,890; Apr. 13; Sp. p. 1870; Gaz. vol. 141; p. 341.  
 Floor-scraper. C. W. Johnson. No. 923,271; June 1; Sp. p. 380; Gaz. vol. 143; p. 52.  
 Floor-scraper. A. T. and I. W. Beeler. No. 926,458; June 29; Sp. p. 7029; Gaz. vol. 143; p. 1239.  
 Floor-scraper. F. J. King. No. 931,432; Aug. 17; Sp. p. 3829; Gaz. vol. 145; p. 661.  
 Floor-scraper. F. F. Hase. (Reissue.) No. 13,011; Aug. 17; Sp. p. 4418; Gaz. vol. 145; p. 750.  
 Floor-scraper. F. M. Israel. No. 935,259; Sept. 28; Sp. p. 4590; Gaz. vol. 146; p. 816.  
 Floor-scraper attachment. J. Miotke. No. 927,742; July 13; Sp. p. 2157; Gaz. vol. 144; p. 374.  
 Floor scraper or planer. J. F. Weber. No. 913,862; Mar. 2; Sp. p. 404; Gaz. vol. 140; p. 66.  
 Floor-scrapping machine. G. S. Newman. No. 909,652; Jan. 12; Sp. p. 2459; Gaz. vol. 138; p. 436.  
 Floor-scrapping machine. A. Schwenke. No. 911,272; Feb. 2; Sp. p. 497; Gaz. vol. 139; p. 85.  
 Floor-scrapping machine. R. S. La Rue. No. 919,037; Apr. 20; Sp. p. 4316; Gaz. vol. 141; p. 754.



*Alphabetical list of inventions—Continued.*

- Floor-scraping machine. S. Drew. No. 938,652; Nov. 2; Sp. p. 451; Gaz. vol. 148; p. 70.  
 Floor-smoothing machine. A. Child and A. Kraemer. No. 923,330; June 1; Sp. p. 513; Gaz. vol. 143; p. 73.  
 Floor-surfacing and sandpapering machine. J. W. Dixon and T. McKinley. No. 915,080; Mar. 16; Sp. p. 2925; Gaz. vol. 140; p. 521.  
 Floor-surfacing machine. J. B. Dyer. No. 910,995; Jan. 26; Sp. p. 5212; Gaz. vol. 138; p. 939.  
 Floor-surfacing machine. W. A. Tash. No. 914,202; Mar. 2; Sp. p. 1171; Gaz. vol. 140; p. 183.  
 Floor-surfacing machine. A. E. Johnson. No. 927,409; July 6; Sp. p. 1415; Gaz. vol. 144; p. 235.  
 Floor-surfacing machine. H. Albers and P. Frueh. No. 943,727; Dec. 21; Sp. p. 3666; Gaz. vol. 149; p. 637.  
 Floor waxer and polisher. K. Kariya. No. 922,148; May 18; Sp. p. 4219; Gaz. vol. 142; p. 737.  
 Floors, Composition of matter for polishing and dressing. T. H. Peco. No. 910,569; Jan. 26; Sp. p. 4387; Gaz. vol. 138; p. 804.  
 Flooring and ceiling, Interlocking. J. W. Piver. No. 935,402; Sept. 28; Sp. p. 4876; Gaz. vol. 146; p. 862.  
 Flooring-clamp. A. A. Hendrickson. No. 909,408; Jan. 12; Sp. p. 1973; Gaz. vol. 138; p. 352.  
 Flooring-jack. J. W. Marsh. No. 922,930; May 25; Sp. p. 5856; Gaz. vol. 142; p. 1021.  
 Flooring, Mechanism for manufacturing parquetry. J. J. Murdoch. No. 921,618; May 11; Sp. p. 3130; Gaz. vol. 142; p. 535.  
 Flooring, Sanitary. N. J. Clayton. No. 927,026; July 6; Sp. p. 677; Gaz. vol. 144; p. 109.  
 Flour-bin. H. E. McClure. No. 943,443; Dec. 14; Sp. p. 3018; Gaz. vol. 149; p. 509.  
 Flour, Core-. W. Goldie. No. 911,655; Feb. 9; Sp. p. 1263; Gaz. vol. 139; p. 237.  
 Flour-duster. F. Treischman and G. Ringstad. No. 943,204; Dec. 14; Sp. p. 2520; Gaz. vol. 149; p. 427.  
 Flour-machine. S. L. Snyder and S. Jacklin. No. 911,913; Feb. 9; Sp. p. 1734; Gaz. vol. 139; p. 320.  
 Flour, Obtaining starch and gluten from wheat-. F. A. V. Klopfer. No. 929,861; Aug. 3; Sp. p. 507; Gaz. vol. 145; p. 82.  
 Flour-packer auger attachment. J. Pullinger. No. 912,410; Feb. 16; Sp. p. 2866; Gaz. vol. 139; p. 520.  
 Flour-shaker. G. A. Hoop. No. 942,903; Dec. 14; Sp. p. 1855; Gaz. vol. 149; p. 326.  
 Flour, Treating. J. M. Williams. (Reissue). No. 13,064; Dec. 28; Sp. p. 6414; Gaz. vol. 149; p. 1100.  
 Flour whitening and aging apparatus. H. Schuster. No. 918,379; Apr. 13; Sp. p. 2874; Gaz. vol. 141; p. 508.  
 Flow-regulating device. N. S. Twiford. No. 937,728; Oct. 19; Sp. p. 4438; Gaz. vol. 147; p. 753.  
 Flower, Artificial. V. R. Haskins. No. 921,246; May 11; Sp. p. 2353; Gaz. vol. 142; p. 413.  
 Flower-holding and grave-covering device. J. C. Van Aken. No. 919,655; Apr. 27; Sp. p. 5783; Gaz. vol. 141; p. 994.  
 Flower-making device, Artificial-. L. Shogran. No. 943,796; Dec. 21; Sp. p. 3793; Gaz. vol. 149; p. 661.  
 Flower or plant holder. R. Kift. No. 926,574; June 29; Sp. p. 7227; Gaz. vol. 143; p. 1278.  
 Flower-pot. E. Bade. No. 909,843; Jan. 12; Sp. p. 2829; Gaz. vol. 138; p. 499.  
 Flower-pot, Combination. W. W. Lewis. No. 918,563; Apr. 20; Sp. p. 3266; Gaz. vol. 141; p. 595.  
 Flower-pot holder. A. Haglund. No. 941,448; Nov. 30; Sp. p. 6633; Gaz. vol. 148; p. 1124.  
 Flower-pot holder. C. H. Keitsch. No. 942,177; Dec. 7; Sp. p. 328; Gaz. vol. 149; p. 50.  
 Flower-pot stand. P. Foy. No. 936,619; Oct. 12; Sp. p. 2160; Gaz. vol. 147; p. 357.  
 Flower-pot support for jardinières. J. Clements. No. 910,905; Jan. 26; Sp. p. 5050; Gaz. vol. 138; p. 910.  
 Flower-pots and like articles, Detachable ball for. G. B. Hart. No. 912,472; Feb. 16; Sp. p. 2987; Gaz. vol. 139; p. 540.  
 Flower-pots and the like, Attachment for. M. C. A. C. Kroeger. No. 923,663; June 1; Sp. p. 1220; Gaz. vol. 143; p. 188.  
 Flower-stand, Adjustable. F. H. Moore. No. 911,149; Feb. 2; Sp. p. 254; Gaz. vol. 139; p. 44.  
 Flower-stand, Folding. F. C. Tedesco. No. 923,089; May 25; Sp. p. 6171; Gaz. vol. 142; p. 1071.  
 Flower stand or rack. J. Vogt. No. 933,142; Sept. 7; Sp. p. 214; Gaz. vol. 146; p. 37.  
 Flower-supporter. C. A. Riegan. No. 933,112; Sept. 7; Sp. p. 158; Gaz. vol. 146; p. 26.  
 Flower-supporter. A. Heim. No. 940,153; Nov. 16; Sp. p. 3777; Gaz. vol. 148; p. 644.  
 Flowers, candles, &c., Holder for. C. L. Patterson. No. 928,213; July 13; Sp. p. 3123; Gaz. vol. 144; p. 532.  
 Flowers, Receptacle for. G. Purdue. No. 930,615; Aug. 10; Sp. p. 2045; Gaz. vol. 145; p. 358.  
 Flue-base, Integral. E. P. Meredith. No. 922,714; May 25; Sp. p. 5392; Gaz. vol. 142; p. 950.  
 Flue beader and expander, Combined. T. H. Hayes. No. 933,707; Sept. 7; Sp. p. 1523; Gaz. vol. 146; p. 230.  
 Flue-block mold. O. C. Hiatt. No. 942,779; Dec. 7; Sp. p. 1544; Gaz. vol. 149; p. 254.  
 Flue-cleaner. E. B. Barnhill. No. 913,675; Feb. 23; Sp. p. 5498; Gaz. vol. 139; p. 968.  
 Flue-cleaner. H. F. Weinland. No. 917,211; Apr. 6; Sp. p. 512; Gaz. vol. 141; p. 89.  
 Flue-cleaner. H. A. Ruggles. No. 931,963; Aug. 24; Sp. p. 4978; Gaz. vol. 145; p. 852.  
 Flue-cleaner. J. Wiechmann. No. 932,210; Aug. 24; Sp. p. 5488; Gaz. vol. 145; p. 935.  
 Flue-cleaner. S. S. Poole. No. 942,515; Dec. 7; Sp. p. 1022; Gaz. vol. 149; p. 163.  
 Flue-collar and pipe-supporter, Adjustable. A. L. McElvain. No. 931,213; Aug. 17; Sp. p. 3362; Gaz. vol. 145; p. 584.  
 Flue-cutter. H. H. Thornton. No. 914,088; Mar. 2; Sp. p. 932; Gaz. vol. 140; p. 146.  
 Flue-cutter. S. T. Boyd. No. 920,254; May 4; Sp. p. 338; Gaz. vol. 142; p. 53.  
 Flue-cutter. A. Frykman. No. 920,451; May 4; Sp. p. 732; Gaz. vol. 142; p. 117.  
 Flue-cutter. J. T. Fuhrmann. No. 922,127; May 18; Sp. p. 4175; Gaz. vol. 142; p. 730.  
 Flue-cutter. E. M. Pope and I. J. B. Hanten. No. 934,351; Sept. 14; Sp. p. 2785; Gaz. vol. 146; p. 464.  
 Flue-cutter. J. M. Wenzel. No. 940,222; Nov. 16; Sp. p. 3937; Gaz. vol. 148; p. 669.  
 Flue-cutter. J. P. Sorensen. No. 943,323; Dec. 14; Sp. p. 2768; Gaz. vol. 149; p. 467.  
 Flue-dust in blast-furnaces and preventing the formation of the same, Effecting the precipitation of. R. W. H. Atcherson and W. Sidall. No. 912,641; Feb. 16; Sp. p. 3343; Gaz. vol. 139; p. 600.  
 Flue-expander. G. V. Putman. No. 908,497; Jan. 5; Sp. p. 132; Gaz. vol. 138; p. 24.  
 Flue-expander. J. P. High. No. 908,669; Jan. 5; Sp. p. 510; Gaz. vol. 138; p. 80.  
 Flue-expander. J. P. High. No. 935,366; Sept. 28; Sp. p. 4815; Gaz. vol. 146; p. 851.  
 Flue-expander. G. Austin. No. 943,907; Dec. 21; Sp. p. 4034; Gaz. vol. 149; p. 699.  
 Flue expander and beader. J. L. Didier. No. 941,190; Nov. 23; Sp. p. 6071; Gaz. vol. 148; p. 1019.  
 Flue expander and cutter. V. Stavenik. No. 911,172; Feb. 2; Sp. p. 292; Gaz. vol. 139; p. 51.  
 Flue-former. H. C. Marsh. No. 934,823; Sept. 21; Sp. p. 3721; Gaz. vol. 146; p. 646.  
 Flue, Metallic. L. D. Armstrong. No. 939,652; Nov. 9; Sp. p. 2663; Gaz. vol. 148; p. 440.  
 Flue or tube expander. J. W. Faessler. No. 924,049; June 8; Sp. p. 2064; Gaz. vol. 143; p. 344.  
 Flue-plug and ferrule, Combination. J. H. Gillon. No. 936,444; Oct. 12; Sp. p. 1792; Gaz. vol. 147; p. 297.  
 Flue protecting-shield, Furnace-. H. W. Lash. No. 927,557; July 13; Sp. p. 1746; Gaz. vol. 144; p. 312.  
 Flue-scraper. W. Appenbrink. No. 922,999; May 25; Sp. p. 5975; Gaz. vol. 142; p. 1042.  
 Flue, Sectional smoke-. S. B. Goucher. No. 938,140; Oct. 26; Sp. p. 5316; Gaz. vol. 147; p. 909.  
 Flue, Smoke-. A. W. Parker. No. 915,211; Mar. 16; Sp. p. 3234; Gaz. vol. 140; p. 565.  
 Flue-stopper. M. M. Starling. No. 914,988; Mar. 9; Sp. p. 2748; Gaz. vol. 140; p. 463.  
 Flue-stopper. G. B. Edwards. No. 934,719; Sept. 21; Sp. p. 3515; Gaz. vol. 146; p. 612.  
 Flues, Means for removing soot and sparks from smoke passing through. J. McLaughlin. No. 931,788; Aug. 24; Sp. p. 4592; Gaz. vol. 145; p. 796.  
 Fluid-brake. F. Böminghaus. No. 927,936; July 13; Sp. p. 2579; Gaz. vol. 144; p. 439.  
 Fluid-brake. W. Heilemann. No. 944,433; Dec. 28; Sp. p. 5149; Gaz. vol. 149; p. 904.  
 Fluid circulating and cooling apparatus. A. R. and F. S. Welch. No. 914,686; Mar. 9; Sp. p. 2180; Gaz. vol. 140; p. 366.  
 Fluid-clutch mechanism. C. W. Dodge, Jr. No. 912,652; Feb. 16; Sp. p. 3356; Gaz. vol. 139; p. 603.  
 Fluid-clutch mechanism. C. W. Dodge, Jr. No. 912,938; Feb. 16; Sp. p. 3939; Gaz. vol. 139; p. 695.  
 Fluid-controlled mechanism. F. H. Richards. No. 919,465; Apr. 27; Sp. p. 5386; Gaz. vol. 141; p. 930.  
 Fluid-controller. C. J. Mackerey. No. 934,001; Sept. 14; Sp. p. 2105; Gaz. vol. 146; p. 347.  
 Fluid-controlling apparatus. H. Sieben. No. 938,613; Nov. 2; Sp. p. 389; Gaz. vol. 148; p. 58.  
 Fluid-cushioned bearing. A. Ponten. No. 913,232; Feb. 23; Sp. p. 4565; Gaz. vol. 139; p. 819.  
 Fluid-cushioned bearing. A. Ponten. No. 913,233; Feb. 23; Sp. p. 4567; Gaz. vol. 139; p. 820.  
 Fluid-distributing comb. V. Sartell. No. 940,196; Nov. 16; Sp. p. 3884; Gaz. vol. 148; p. 659.  
 Fluid-distributing system. D. M. Hosford. No. 929,852; Aug. 3; Sp. p. 489; Gaz. vol. 145; p. 78.  
 Fluid-gauge. M. Martin. No. 912,393; Feb. 16; Sp. p. 2830; Gaz. vol. 139; p. 514.  
 Fluid hoisting machinery. C. F. Blake and C. W. Aveling. No. 917,992; Apr. 13; Sp. p. 2105; Gaz. vol. 141; p. 378.  
 Fluid-motor. E. J. Firth. No. 917,034; Apr. 6; Sp. p. 147; Gaz. vol. 141; p. 28.  
 Fluid-motor. A. Mill. No. 941,582; Nov. 30; Sp. p. 6900; Gaz. vol. 148; p. 1168.  
 Fluid motor, Elastic-. C. J. Lake. No. 919,289; Apr. 20; Sp. p. 4980; Gaz. vol. 141; p. 835.  
 Fluid-pressure brake. W. V. Turner. No. 917,193; Apr. 6; Sp. p. 471; Gaz. vol. 141; p. 83.  
 Fluid-pressure brake. W. V. Turner. No. 917,194; Apr. 6; Sp. p. 474; Gaz. vol. 141; p. 83.  
 Fluid-pressure brake. W. V. Turner. No. 920,504; May 4; Sp. p. 827; Gaz. vol. 142; p. 133.  
 Fluid-pressure brake. W. P. A. MacFarlane. No. 926,068; June 22; Sp. p. 6235; Gaz. vol. 143; p. 1075.  
 Fluid-pressure brake. W. V. Turner and J. S. Custer. No. 937,392; Oct. 19; Sp. p. 3740; Gaz. vol. 147; p. 641.  
 Fluid-pressure brake. W. P. A. MacFarlane. No. 941,684; Nov. 30; Sp. p. 7106; Gaz. vol. 148; p. 1201.

*Alphabetical list of inventions—Continued.*

- Fluid-pressure brake, Electric. W. V. Turner and R. H. Blackall. No. 937,393; Oct. 19; Sp. p. 3744; Gaz. vol. 147; p. 641.
- Fluid-pressure combination-lock. W. J. Hoistatter. No. 938,487; Nov. 2; Sp. p. 87; Gaz. vol. 148; p. 14.
- Fluid-pressure controller. W. G. Hughes. No. 917,300; Apr. 6; Sp. p. 706; Gaz. vol. 141; p. 120.
- Fluid-pressure controller. T. O. Perry. No. 920,491; May 4; Sp. p. 795; Gaz. vol. 142; p. 129.
- Fluid-pressure-cushioning device. C. E. Squires. No. 912,502; Feb. 16; Sp. p. 3044; Gaz. vol. 139; p. 550.
- Fluid-pressure cut-off. R. Davis. No. 916,114; Mar. 23; Sp. p. 5018; Gaz. vol. 140; p. 889.
- Fluid-pressure, Device for shutting off. E. J. O'Malley. No. 909,016; Jan. 5; Sp. p. 1198; Gaz. vol. 138; p. 191.
- Fluid-pressure engine. W. T. Lewis. No. 916,463; Mar. 30; Sp. p. 5708; Gaz. vol. 140; p. 1030.
- Fluid-pressure engine. J. C. Fleming. No. 923,100; June 1; Sp. p. 87; Gaz. vol. 143; p. 14.
- Fluid-pressure engine. C. P. Ebersole. No. 942,441; Dec. 7; Sp. p. 849; Gaz. vol. 149; p. 139.
- Fluid-pressure engine. J. W. West. No. 944,064; Dec. 21; Sp. p. 4365; Gaz. vol. 149; p. 752.
- Fluid-pressure heat-engine. A. Whiteway and C. Hubbard. No. 923,226; June 1; Sp. p. 220; Gaz. vol. 143; p. 36.
- Fluid-pressure indexing mechanism. B. M. V. Hanson. No. 912,124; Feb. 9; Sp. p. 2246; Gaz. vol. 139; p. 389.
- Fluid-pressure-indicating device. T. Sloper. No. 932,504; Aug. 31; Sp. p. 6082; Gaz. vol. 145; p. 1055.
- Fluid-pressure motor. F. J. Darlington. No. 919,326; Apr. 27; Sp. p. 5080; Gaz. vol. 141; p. 852.
- Fluid-pressure motor. J. E. Osmer. No. 937,384; Oct. 19; Sp. p. 3726; Gaz. vol. 147; p. 638.
- Fluid-pressure ram. A. Parfitt. No. 913,970; Mar. 2; Sp. p. 658; Gaz. vol. 140; p. 104.
- Fluid-pressure regulator. C. C. Farmer. No. 920,447; May 4; Sp. p. 724; Gaz. vol. 142; p. 115.
- Fluid-pressure regulator. A. G. Beckman. No. 920,716; May 4; Sp. p. 1283; Gaz. vol. 142; p. 205.
- Fluid-pressure regulator. F. L. Jahn. No. 925,812; June 22; Sp. p. 5718; Gaz. vol. 143; p. 991.
- Fluid-pressure regulator. E. Schulte. No. 937,721; Oct. 19; Sp. p. 4422; Gaz. vol. 147; p. 750.
- Fluid-pressure regulator. F. H. Brown. No. 939,470; Nov. 9; Sp. p. 2281; Gaz. vol. 148; p. 377.
- Fluid-pressure regulator. B. H. Petley. No. 942,042; Nov. 30; Sp. p. 7858; Gaz. vol. 148; p. 1324.
- Fluid-pressure systems, Automatic controlling mechanism for. W. J. Richards. No. 917,897; Apr. 13; Sp. p. 1882; Gaz. vol. 141; p. 343.
- Fluid sprayer, Multiple. E. J. Frazier. No. 912,106; Feb. 9; Sp. p. 2219; Gaz. vol. 139; p. 384.
- Fluid substances, Apparatus for desiccating. W. S. Osborne. No. 913,760; Mar. 2; Sp. p. 178; Gaz. vol. 140; p. 29.
- Fluid-testing apparatus. H. B. Bishop. No. 940,850; Nov. 23; Sp. p. 5337; Gaz. vol. 148; p. 905.
- Fluid translation device. R. N. Ehrhart. No. 927,515; July 13; Sp. p. 1674; Gaz. vol. 144; p. 299.
- Fluid-transmission apparatus. E. James. No. 929,091; July 27; Sp. p. 4938; Gaz. vol. 144; p. 880.
- Fluids, Apparatus for controlling the flow of. S. Cook. No. 930,843; Aug. 10; Sp. p. 2500; Gaz. vol. 145; p. 433.
- Fluids, Intimately mixing liquid and gaseous. P. Kestner. No. 923,855; June 8; Sp. p. 1702; Gaz. vol. 143; p. 283.
- Fluids, Method and apparatus for testing. H. B. Bishop. No. 933,015; Aug. 31; Sp. p. 7114; Gaz. vol. 145; p. 1223.
- Fluids, Rate-regulating device for. F. N. Connet. No. 930,158; Aug. 3; Sp. p. 1128; Gaz. vol. 145; p. 184.
- Fluids under high pressures, Transferring apparatus for. J. A. Hoff. No. 927,798; July 13; Sp. p. 2274; Gaz. vol. 144; p. 393.
- Flush-meter. A. Simons. No. 913,776; Mar. 2; Sp. p. 211; Gaz. vol. 140; p. 35.
- Flush plate for flush receptacles. F. T. Wheeler. No. 943,958; Dec. 21; Sp. p. 4137; Gaz. vol. 149; p. 717.
- Flush-tank. J. O. Brousseau. No. 909,537; Jan. 12; Sp. p. 2231; Gaz. vol. 138; p. 396.
- Flush-tank. W. M. Baker. No. 916,967; Apr. 6; Sp. p. 14; Gaz. vol. 141; p. 5.
- Flush-tank. T. Zwermann. No. 926,633; June 29; Sp. p. 7349; Gaz. vol. 143; p. 1297.
- Flush-tank. A. D. Williams. No. 933,409; Sept. 7; Sp. p. 843; Gaz. vol. 146; p. 131.
- Flush-tank. B. Walker, Jr. No. 938,294; Oct. 26; Sp. p. 5633; Gaz. vol. 147; p. 963.
- Flushing apparatus. J. E. Longstreet. No. 914,587; Mar. 9; Sp. p. 1959; Gaz. vol. 140; p. 334.
- Flushing apparatus. A. D'Amario. No. 930,537; Aug. 10; Sp. p. 1885; Gaz. vol. 145; p. 332.
- Flushing apparatus. C. A. Wulf. No. 931,546; Aug. 17; Sp. p. 4034; Gaz. vol. 145; p. 695.
- Flushing apparatus. H. Morris. No. 931,948; Aug. 24; Sp. p. 4942; Gaz. vol. 145; p. 848.
- Flushing apparatus. F. de Alba B. No. 932,939; Aug. 31; Sp. p. 6980; Gaz. vol. 145; p. 1199.
- Flushing apparatus. G. Coenen. No. 935,642; Oct. 5; Sp. p. 30; Gaz. vol. 147; p. 7.
- Flushing apparatus. E. Opperman. No. 938,018; Oct. 26; Sp. p. 5049; Gaz. vol. 147; p. 868.
- Flushing apparatus. C. A. Wulf. No. 938,195; Oct. 26; Sp. p. 5442; Gaz. vol. 147; p. 929.
- Flushing apparatus. P. S. Milice. No. 938,683; Nov. 2; Sp. p. 526; Gaz. vol. 148; p. 81.
- Flushing apparatus. T. W. Christy. No. 939,123; Nov. 2; Sp. p. 1427; Gaz. vol. 148; p. 232.
- Flushing apparatus. A. C. Snell. No. 942,978; Dec. 14; Sp. p. 2030; Gaz. vol. 149; p. 352.
- Flushing apparatus, Air-chamber. R. Stickdom. No. 918,216; Apr. 13; Sp. p. 2552; Gaz. vol. 141; p. 455.
- Flushing apparatus for water-closet bowls or hoppers. W. E. Snaman. No. 941,263; Nov. 23; Sp. p. 6267; Gaz. vol. 148; p. 1049.
- Flushing apparatus, Water-closet-bowl-. J. T. Murray. No. 932,716; Aug. 31; Sp. p. 6542; Gaz. vol. 145; p. 1127.
- Flushing-cistern for closet-bowls. J. H. Van Zandt and W. E. Thacher. No. 935,341; Sept. 28; Sp. p. 4769; Gaz. vol. 146; p. 843.
- Flushing device. P. F. Murphy. No. 916,758; Mar. 30; Sp. p. 6265; Gaz. vol. 140; p. 1121.
- Flushing device. F. F. Hawkins. No. 927,796; July 13; Sp. p. 2271; Gaz. vol. 144; p. 792.
- Flushing device. C. H. Zwermann. No. 943,131; Dec. 14; Sp. p. 2382; Gaz. vol. 149; p. 405.
- Flushing device, Basin. E. Kuhn. No. 941,997; Nov. 30; Sp. p. 7768; Gaz. vol. 148; p. 1309.
- Flushing device for water-closet tanks. J. F. Young. No. 936,396; Oct. 12; Sp. p. 1658; Gaz. vol. 147; p. 281.
- Flushing device, Tank-. W. W. Ellerbeck. No. 943,145; Dec. 14; Sp. p. 2414; Gaz. vol. 149; p. 410.
- Flushing mechanism. A. Succop. No. 909,961; Jan. 19; Sp. p. 3094; Gaz. vol. 138; p. 572.
- Flushing mechanism. J. H. Davis. No. 920,928; May 11; Sp. p. 1711; Gaz. vol. 142; p. 304.
- Flushing mechanism. P. H. McNeill. No. 929,693; Aug. 3; Sp. p. 106; Gaz. vol. 145; p. 20.
- Flushing-tank. J. Heald. No. 908,667; Jan. 5; Sp. p. 508; Gaz. vol. 138; p. 79.
- Flushing-tank. C. Willms. No. 908,825; Jan. 5; Sp. p. 820; Gaz. vol. 138; p. 128.
- Flushing-tank. J. C. Stevieck. No. 908,900; Jan. 5; Sp. p. 968; Gaz. vol. 138; p. 154.
- Flushing-tank. H. S. Hawks. No. 909,789; Jan. 12; Sp. p. 2732; Gaz. vol. 138; p. 481.
- Flushing-tank. A. R. Gilmore. No. 912,665; Feb. 16; Sp. p. 3367; Gaz. vol. 139; p. 607.
- Flushing-tank. W. F. Adams. No. 914,011; Mar. 2; Sp. p. 781; Gaz. vol. 140; p. 119.
- Flushing-tank. C. N. Marcellus. No. 918,456; Apr. 13; Sp. p. 3029; Gaz. vol. 141; p. 532.
- Flushing-tank. J. L. Fruin. No. 920,126; May 4; Sp. p. 74; Gaz. vol. 142; p. 10.
- Flushing-tank. L. B. Yelser. No. 924,953; June 15; Sp. p. 3977; Gaz. vol. 143; p. 680.
- Flushing-tank. C. M. Franzheim. No. 938,468; Nov. 2; Sp. p. 29; Gaz. vol. 148; p. 7.
- Flushing-tank. C. C. Lindley. No. 939,521; Nov. 9; Sp. p. 2372; Gaz. vol. 148; p. 394.
- Flushing-tank, Automatic. J. J. Friel and G. Cruseo. No. 936,709; Oct. 12; Sp. p. 2334; Gaz. vol. 147; p. 387.
- Flushing-tank float. H. C. Johnston. No. 927,354; July 6; Sp. p. 1308; Gaz. vol. 144; p. 217.
- Flushing-tank for closets. F. A. Schossow. No. 943,753; Dec. 21; Sp. p. 3787; Gaz. vol. 149; p. 659.
- Flushing-tanks, Float-ball for. T. Zwermann. No. 935,448; Sept. 28; Sp. p. 4968; Gaz. vol. 146; p. 877.
- Flushometer. L. R. Hurst. No. 917,301; Apr. 6; Sp. p. 709; Gaz. vol. 141; p. 121.
- Flushometer. W. H. Bowman. No. 932,244; Aug. 24; Sp. p. 5537; Gaz. vol. 145; p. 946.
- Flute. H. W. T. Jenner. No. 920,471; May 4; Sp. p. 761; Gaz. vol. 142; p. 123.
- Fly-book. S. E. Creasey. No. 940,132; Nov. 16; Sp. p. 3739; Gaz. vol. 148; p. 637.
- Fly-catcher. H. Wiegand and C. W. Kronenberg. No. 919,507; Apr. 27; Sp. p. 5495; Gaz. vol. 141; p. 944.
- Fly-catcher. W. Weinfeld. No. 925,616; June 22; Sp. p. 5273; Gaz. vol. 143; p. 927.
- Fly-excluder and weather-strip, Combination. A. B. Clay. No. 936,235; Oct. 5; Sp. p. 1308; Gaz. vol. 147; p. 200.
- Fly-paper holder. A. O. Bonin and H. Mason. No. 915,822; Mar. 23; Sp. p. 4477; Gaz. vol. 140; p. 794.
- Fly-paper holder. A. A. Frye. No. 918,309; Apr. 13; Sp. p. 2735; Gaz. vol. 141; p. 485.
- Fly-paper holder. R. E. Fee. No. 923,502; June 1; Sp. p. 867; Gaz. vol. 143; p. 132.
- Fly-paper holder, Sticky-. G. and H. R. Laube. No. 944,994; Dec. 28; Sp. p. 6369; Gaz. vol. 149; p. 1093.
- Fly-screen. L. M. Tully. No. 916,632; Mar. 30; Sp. p. 6051; Gaz. vol. 140; p. 1085.
- Fly-screen. E. Curtiss. No. 939,395; Nov. 9; Sp. p. 2113; Gaz. vol. 148; p. 353.
- Fly-screen, Exit. W. Bagwell. No. 929,816; Aug. 3; Sp. p. 402; Gaz. vol. 145; p. 66.
- Fly-shield. G. A. Ewer. No. 929,415; July 27; Sp. p. 5638; Gaz. vol. 144; p. 989.
- Fly-tape. N. L. Foster. No. 919,149; Apr. 20; Sp. p. 4521; Gaz. vol. 141; p. 790.
- Fly-trap. W. S. Wagner. No. 909,041; Jan. 5; Sp. p. 1238; Gaz. vol. 138; p. 199.
- Fly-trap. W. E. Criderman. No. 917,012; Apr. 6; Sp. p. 97; Gaz. vol. 141; p. 21.
- Fly-trap. H. Turner. No. 920,696; May 4; Sp. p. 1225; Gaz. vol. 142; p. 198.
- Fly-trap. W. Engelbrecht. No. 926,323; June 29; Sp. p. 6791; Gaz. vol. 143; p. 1194.
- Fly-trap. G. and H. R. Laube. No. 944,882; Dec. 28; Sp. p. 6152; Gaz. vol. 149; p. 1058.
- Fly-trap. G. and H. R. Laube. No. 945,003; Dec. 28; Sp. p. 6390; Gaz. vol. 149; p. 1096.



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- Fly-trap, Vacuum. I. A. Myser. No. 923,368; June 1; Sp. p. 593; Gaz. vol. 143; p. 86.
- Fly-wheel. R. W. Guilford. No. 911,540; Feb. 2; Sp. p. 983; Gaz. vol. 139; p. 171.
- Fly-wheel. G. Scaramuzza. No. 928,544; July 20; Sp. p. 3828; Gaz. vol. 144; p. 672.
- Flying apparatus. P. F. Degn. No. 922,756; May 25; Sp. p. 5477; Gaz. vol. 142; p. 963.
- Flying-machine. H. Bea. No. 910,773; Jan. 26; Sp. p. 4797; Gaz. vol. 138; p. 868.
- Flying-machine. W. D. Valentine. No. 911,784; Feb. 9; Sp. p. 1489; Gaz. vol. 139; p. 278.
- Flying-machine. M. Strzelecki. No. 916,626; Mar. 30; Sp. p. 6042; Gaz. vol. 140; p. 1083.
- Flying-machine. M. G. Adams. No. 917,513; Apr. 6; Sp. p. 1086; Gaz. vol. 141; p. 190.
- Flying-machine. R. G. Dressler. No. 919,834; Apr. 27; Sp. p. 6181; Gaz. vol. 141; p. 1054.
- Flying-machine. C. R. Culver. No. 922,264; May 18; Sp. p. 4469; Gaz. vol. 142; p. 770.
- Flying-machine. G. W. Thompson. No. 922,972; May 25; Sp. p. 5928; Gaz. vol. 142; p. 1033.
- Flying-machine. W. A. McCurd. No. 924,813; June 15; Sp. p. 3695; Gaz. vol. 143; p. 633.
- Flying-machine. J. H. Wilson. No. 926,159; June 29; Sp. p. 6435; Gaz. vol. 143; p. 1141.
- Flying-machine. L. J. Brown. No. 926,804; July 6; Sp. p. 199; Gaz. vol. 144; p. 33.
- Flying-machine. P. V. Wadleigh. No. 926,913; July 6; Sp. p. 436; Gaz. vol. 144; p. 70.
- Flying-machine. M. B. Sellers. No. 927,289; July 6; Sp. p. 1202; Gaz. vol. 144; p. 198.
- Flying-machine. A. A. Zalondek. No. 929,362; July 27; Sp. p. 5553; Gaz. vol. 144; p. 973.
- Flying-machine. D. C. Dorman. No. 934,717; Sept. 21; Sp. p. 3510; Gaz. vol. 146; p. 611.
- Flying-machine. A. R. Malasomma. No. 935,039; Sept. 28; Sp. p. 4149; Gaz. vol. 146; p. 744.
- Flying-machine. W. H. Martin. No. 935,384; Sept. 28; Sp. p. 4846; Gaz. vol. 146; p. 857.
- Flying-machine. A. H. Friedel. No. 940,866; Nov. 23; Sp. p. 5368; Gaz. vol. 148; p. 909.
- Flying-machine. T. F. Dunn. No. 942,958; Dec. 14; Sp. p. 1990; Gaz. vol. 149; p. 345.
- Flying-machine. A. W. H. Warshavsky. No. 944,301; Dec. 28; Sp. p. 4862; Gaz. vol. 149; p. 857.
- Flying-machine, Aeroplane. A. Beriozzi. No. 923,936; June 8; Sp. p. 1847; Gaz. vol. 143; p. 308.
- Flying-machine-launching apparatus. J. Means. No. 922,710; May 25; Sp. p. 5384; Gaz. vol. 142; p. 949.
- Flying-machine-launching apparatus. J. Means. No. 922,711; May 25; Sp. p. 5385; Gaz. vol. 142; p. 949.
- Flying-machine-launching apparatus. J. Means. No. 922,712; May 25; Sp. p. 5387; Gaz. vol. 142; p. 949.
- Flying-machine-launching device. J. Means. No. 922,713; May 25; Sp. p. 5389; Gaz. vol. 142; p. 950.
- Flying-machine or the like, Mechanism for flexing the rudder of a. O. and W. Wright. No. 908,929; Jan. 5; Sp. p. 1023; Gaz. vol. 138; p. 164.
- Flying-machines, Emergency apparatus for controlling. J. Means. No. 935,766; Oct. 5; Sp. p. 315; Gaz. vol. 147; p. 49.
- Flying-machines, Screw-propeller for. P. F. Degn. No. 934,394; Sept. 14; Sp. p. 2872; Gaz. vol. 146; p. 480.
- Flying-machines, Surface of ascension or aeroplane for. A. P. Filippi. No. 920,554; May 4; Sp. p. 937; Gaz. vol. 142; p. 151.
- Focusing device. W. F. Folmer. No. 932,458; Aug. 31; Sp. p. 5969; Gaz. vol. 145; p. 1039.
- Focusing device. R. Kroedel. No. 933,713; Sept. 7; Sp. p. 1537; Gaz. vol. 146; p. 232.
- Focusing device. R. Kroedel. No. 937,077; Oct. 19; Sp. p. 3053; Gaz. vol. 147; p. 538.
- Focusing device. R. Kroedel. No. 937,159; Oct. 19; Sp. p. 3241; Gaz. vol. 147; p. 565.
- Fodder-cutter. J. W. Halstead. No. 933,901; Sept. 14; Sp. p. 1915; Gaz. vol. 146; p. 316.
- Fodder-shredder. E. F. Gibbons. No. 914,136; Mar. 2; Sp. p. 1030; Gaz. vol. 140; p. 163.
- Fodder-tie. W. A. Knoble. No. 925,484; June 22; Sp. p. 5002; Gaz. vol. 143; p. 883.
- Foldable table or stool. L. Smiejkowski. No. 937,479; Oct. 19; Sp. p. 3947; Gaz. vol. 147; p. 670.
- Folded-corner can or vessel. J. M. Hothersall. No. 927,538; July 13; Sp. p. 1714; Gaz. vol. 144; p. 306.
- Folded-corner pan or vessel. J. M. Hothersall. No. 927,537; July 13; Sp. p. 1713; Gaz. vol. 144; p. 306.
- Folder, Sectional. S. B. Hutchinson. No. 934,073; Sept. 14; Sp. p. 2246; Gaz. vol. 146; p. 370.
- Folding and wrapping machine. C. Owens. No. 911,543; Feb. 2; Sp. p. 988; Gaz. vol. 139; p. 172.
- Folding bag. W. Rueter. No. 932,721; Aug. 31; Sp. p. 6554; Gaz. vol. 145; p. 1129.
- Folding box. M. Hutchinson. No. 913,894; Mar. 2; Sp. p. 470; Gaz. vol. 140; p. 77.
- Folding box. M. Dettka. No. 916,278; Mar. 23; Sp. p. 5315; Gaz. vol. 140; p. 941.
- Folding box. J. Gumperz. No. 916,698; Mar. 30; Sp. p. 6171; Gaz. vol. 140; p. 1105.
- Folding box. F. E. Sterrett. No. 923,725; June 1; Sp. p. 1341; Gaz. vol. 143; p. 209.
- Folding box. C. E. Wrenshall. No. 924,410; June 8; Sp. p. 2849; Gaz. vol. 143; p. 465.
- Folding box. G. M. Slack. No. 924,504; June 8; Sp. p. 3029; Gaz. vol. 143; p. 495.
- Folding box. H. L. Gulline. No. 933,554; Sept. 7; Sp. p. 1217; Gaz. vol. 146; p. 178.
- Folding box. C. H. Seegmiller. No. 935,930; Oct. 5; Sp. p. 707; Gaz. vol. 147; p. 104.
- Folding box. H. L. Gulline. No. 940,009; Nov. 16; Sp. p. 3435; Gaz. vol. 148; p. 593.
- Folding box. H. L. Gulline. No. 940,010; Nov. 16; Sp. p. 3436; Gaz. vol. 148; p. 593.
- Folding box. J. W. Putnam. No. 940,941; Nov. 23; Sp. p. 5523; Gaz. vol. 148; p. 935.
- Folding box. C. F. Jenkins. No. 941,256; Nov. 23; Sp. p. 6196; Gaz. vol. 148; p. 1040.
- Folding box. C. F. Jenkins. No. 941,257; Nov. 23; Sp. p. 6198; Gaz. vol. 148; p. 1040.
- Folding box. P. R. Warren. No. 944,063; Dec. 21; Sp. p. 4363; Gaz. vol. 149; p. 752.
- Folding box, Collapsible. C. C. Bowen and J. A. Coffey. No. 934,273; Sept. 14; Sp. p. 2639; Gaz. vol. 146; p. 438.
- Folding box or crate. H. L. Gulline. No. 909,586; Jan. 12; Sp. p. 2329; Gaz. vol. 138; p. 413.
- Folding box or crate. R. Hohenstein. No. 942,642; Dec. 7; Sp. p. 1273; Gaz. vol. 149; p. 208.
- Folding box or shipping-case. W. H. Doble and C. M. Wheaton. No. 941,013; Nov. 23; Sp. p. 5674; Gaz. vol. 148; p. 958.
- Folding case. A. B. Sitzer, R. T. Layman, and S. Klinglesmith. No. 928,818; July 20; Sp. p. 4371; Gaz. vol. 144; p. 762.
- Folding chair. O. W. Potter. No. 910,229; Jan. 19; Sp. p. 3641; Gaz. vol. 138; p. 662.
- Folding chair. D. W. Hook. No. 910,818; Jan. 26; Sp. p. 4895; Gaz. vol. 138; p. 883.
- Folding chair. H. C. Forshay. No. 911,226; Feb. 2; Sp. p. 399; Gaz. vol. 139; p. 69.
- Folding chair. F. E. Tibbetts. No. 916,062; Mar. 23; Sp. p. 4922; Gaz. vol. 140; p. 872.
- Folding chair. J. P. Reinhart. No. 917,150; Apr. 6; Sp. p. 394; Gaz. vol. 141; p. 68.
- Folding chair. J. Spoljar. No. 924,396; June 8; Sp. p. 2827; Gaz. vol. 143; p. 460.
- Folding chair. C. J. Gullickson. No. 929,213; July 27; Sp. p. 5196; Gaz. vol. 144; p. 921.
- Folding chair. J. T. Hall. No. 931,864; Aug. 24; Sp. p. 4738; Gaz. vol. 145; p. 820.
- Folding chair. W. O. Canouts. No. 937,567; Oct. 19; Sp. p. 4121; Gaz. vol. 147; p. 701.
- Folding chair. W. W. Dozier. No. 938,832; Nov. 2; Sp. p. 826; Gaz. vol. 148; p. 132.
- Folding chair. F. M. Burrows. No. 940,582; Nov. 16; Sp. p. 4746; Gaz. vol. 148; p. 790.
- Folding chair or seat. G. E. Remsen and L. B. Bachwitz. No. 920,650; May 4; Sp. p. 1119; Gaz. vol. 142; p. 183.
- Folding fender, Automatic. W. J. Hickey. No. 935,788; Oct. 5; Sp. p. 391; Gaz. vol. 147; p. 57.
- Folding-machine. W. W. and W. L. Dixon. No. 924,149; June 8; Sp. p. 2280; Gaz. vol. 143; p. 377.
- Folding-machine. R. C. Seymour. No. 931,230; Aug. 17; Sp. p. 3401; Gaz. vol. 145; p. 590.
- Folding-machine. G. J. Dormandy. No. 935,783; Oct. 5; Sp. p. 362; Gaz. vol. 147; p. 55.
- Folding-machine. G. J. Dormandy. No. 935,784; Oct. 5; Sp. p. 372; Gaz. vol. 147; p. 55.
- Folding-machine. G. J. Dormandy. No. 935,785; Oct. 5; Sp. p. 379; Gaz. vol. 147; p. 56.
- Folding-machine. G. J. Dormandy. No. 935,786; Oct. 5; Sp. p. 384; Gaz. vol. 147; p. 56.
- Folding-machine. J. H. Adams and E. D. Wallace. No. 936,506; Oct. 12; Sp. p. 1922; Gaz. vol. 147; p. 317.
- Folding-machine. E. D. Wallace. No. 941,747; Nov. 30; Sp. p. 7256; Gaz. vol. 148; p. 1224.
- Folding-machine stacker. O. W. Johnson. No. 932,283; Aug. 24; Sp. p. 5625; Gaz. vol. 145; p. 960.
- Folding mechanism. S. G. Goss. No. 936,710; Oct. 12; Sp. p. 2335; Gaz. vol. 147; p. 388.
- Folding seat. W. Kalitzky. No. 916,379; Mar. 23; Sp. p. 5502; Gaz. vol. 140; p. 976.
- Folding seat. W. G. Winans. No. 939,937; Nov. 9; Sp. p. 3272; Gaz. vol. 148; p. 540.
- Folding seat and luggage-box, Adjustable. J. R. Maloney. No. 915,983; Mar. 23; Sp. p. 4783; Gaz. vol. 140; p. 845.
- Folding seat, Portable. C. Wilckerling and H. T. Rediske. No. 936,502; Oct. 12; Sp. p. 1916; Gaz. vol. 147; p. 316.
- Folding stand. P. Plantinga. No. 918,087; Apr. 13; Sp. p. 2295; Gaz. vol. 141; p. 411.
- Folding stand or bookcase. E. D. Mattison. No. 915,618; Mar. 16; Sp. p. 4041; Gaz. vol. 140; p. 698.
- Folding strap or brace. G. C. Locklin. No. 938,674; Nov. 2; Sp. p. 511; Gaz. vol. 148; p. 78.
- Folding table. W. R. Burlingame. No. 910,354; Jan. 19; Sp. p. 3932; Gaz. vol. 138; p. 707.
- Folding table. H. P. Arnt. No. 915,061; Mar. 16; Sp. p. 2881; Gaz. vol. 140; p. 515.
- Folding table. A. Hummel. No. 919,015; Apr. 20; Sp. p. 4274; Gaz. vol. 141; p. 748.
- Folding table. B. Boeswinkle. No. 920,253; May 4; Sp. p. 337; Gaz. vol. 142; p. 53.
- Folding table. E. Workman. No. 921,495; May 11; Sp. p. 2877; Gaz. vol. 142; p. 495.
- Folding table. L. Nolan. No. 922,179; May 18; Sp. p. 4279; Gaz. vol. 142; p. 746.
- Folding table. M. A. Drees. No. 923,500; June 1; Sp. p. 858; Gaz. vol. 143; p. 131.
- Folding table. W. A. Snyder. No. 925,397; June 15; Sp. p. 4826; Gaz. vol. 143; p. 825.

*Alphabetical list of inventions—Continued.*

- Folding table. J. A. Keck. (Reissue.) No. 13,013; Aug. 17; Sp. p. 4423; Gaz. vol. 145; p. 751.  
 Folding table. F. W. Gent. No. 935,751; Oct. 5; Sp. p. 273; Gaz. vol. 147; p. 44.  
 Folding table. C. E. Forbes and A. Singer. No. 939,824; Nov. 9; Sp. p. 3030; Gaz. vol. 148; p. 499.  
 Folding table. F. W. Anderson. No. 939,963; Nov. 16; Sp. p. 3333; Gaz. vol. 148; p. 577.  
 Food-chopper. S. R. Munson. No. 912,482; Feb. 16; Sp. p. 3003; Gaz. vol. 139; p. 543.  
 Food composition. O. L. M. Abramowski and F. Rosing. No. 924,411; June 8; Sp. p. 2850; Gaz. vol. 143; p. 465.  
 Food compound. L. King. No. 915,186; Mar. 16; Sp. p. 3172; Gaz. vol. 140; p. 557.  
 Food compound or condiment. S. L. Sigal. No. 934,763; Sept. 21; Sp. p. 3591; Gaz. vol. 146; p. 626.  
 Food-heater. E. C. A. Hellmig. No. 929,089; July 27; Sp. p. 4935; Gaz. vol. 144; p. 879.  
 Food, Manufacturing cattle. T. E. Breyer. No. 920,108; May 4; Sp. p. 15; Gaz. vol. 142; p. 4.  
 Food product and makings same. A. Behr. No. 914,379; Mar. 9; Sp. p. 1557; Gaz. vol. 140; p. 265.  
 Food, Stock. D. McCall. No. 919,059; Apr. 20; Sp. p. 4357; Gaz. vol. 141; p. 761.  
 Food-warmer. R. W. Munn. No. 927,997; July 13; Sp. p. 2689; Gaz. vol. 144; p. 458.  
 Foods, &c., by liquid air, Apparatus for cooling and preserving. J. F. Place. No. 927,595; July 13; Sp. p. 1837; Gaz. vol. 144; p. 326.  
 Foot and body warmer, Portable. F. Batter. No. 912,527; Feb. 16; Sp. p. 3112; Gaz. vol. 139; p. 559.  
 Foot and leg rest. J. Flindall. No. 920,854; May 4; Sp. p. 1544; Gaz. vol. 142; p. 249.  
 Foot and leg rest. J. Flindall. No. 942,630; Dec. 7; Sp. p. 1248; Gaz. vol. 149; p. 204.  
 Foot, Artificial. J. F. Rowley. No. 942,521; Dec. 7; Sp. p. 1039; Gaz. vol. 149; p. 167.  
 Foot-gage. E. S. Bedford. No. 944,937; Dec. 28; Sp. p. 6255; Gaz. vol. 149; p. 1075.  
 Foot or leg attachment for use in swimming. C. W. Hill. No. 913,382; Feb. 23; Sp. p. 4863; Gaz. vol. 139; p. 870.  
 Foot-power motor. W. Hargrove. No. 942,556; Dec. 7; Sp. p. 1104; Gaz. vol. 149; p. 179.  
 Foot-register. F. C. Parker. No. 911,436; Feb. 2; Sp. p. 793; Gaz. vol. 139; p. 138.  
 Foot-rest. F. C. Tate. No. 917,184; Apr. 6; Sp. p. 450; Gaz. vol. 141; p. 79.  
 Foot-rest. J. A. Gaertner. No. 918,433; Apr. 13; Sp. p. 2985; Gaz. vol. 141; p. 525.  
 Foot-rest. W. C. Ovenden. No. 926,207; June 29; Sp. p. 6548; Gaz. vol. 143; p. 1158.  
 Foot-rest. H. S. Phillips. No. 938,697; Nov. 2; Sp. p. 548; Gaz. vol. 148; p. 85.  
 Foot-rest for chairs, swings, &c. W. and B. Zabel. No. 922,994; May 18; Sp. p. 5965; Gaz. vol. 142; p. 1040.  
 Foot-supporter. C. E. Passage. No. 936,155; Oct. 5; Sp. p. 1169; Gaz. vol. 147; p. 177.  
 Footboard. A. Krutinger. No. 936,786; Oct. 12; Sp. p. 2482; Gaz. vol. 147; p. 414.  
 Footwear. F. D. Donoghue. No. 915,082; Mar. 16; Sp. p. 2936; Gaz. vol. 140; p. 522.  
 Footwear protecting device. T. W. Tucker. No. 942,983; Dec. 14; Sp. p. 2044; Gaz. vol. 149; p. 354.  
 Force-cup. A. H. Lowe and G. Stephenson. No. 915,687; Mar. 16; Sp. p. 4206; Gaz. vol. 140; p. 725.  
 Force-feed lubricator. C. C. Wakefield. No. 912,337; Feb. 16; Sp. p. 2716; Gaz. vol. 139; p. 495.  
 Force-feed lubricator. W. H. Gamble. No. 917,578; Apr. 6; Sp. p. 1201; Gaz. vol. 141; p. 211.  
 Force-feed lubricator. C. B. and F. W. Hodges. No. 922,141; May 18; Sp. p. 4202; Gaz. vol. 142; p. 735.  
 Force-feed lubricator. H. W. Hancock. No. 923,832; June 8; Sp. p. 1664; Gaz. vol. 143; p. 275.  
 Forceps, Pig. W. Robertson. No. 930,886; Aug. 10; Sp. p. 2613; Gaz. vol. 145; p. 447.  
 Fore-carriage. J. W. Gamble. No. 942,319; Dec. 7; Sp. p. 622; Gaz. vol. 149; p. 99.  
 Forge. J. Philipski. No. 937,265; Oct. 19; Sp. p. 3477; Gaz. vol. 147; p. 601.  
 Forge and furnace. W. N. Best. No. 938,111; Oct. 26; Sp. p. 5244; Gaz. vol. 147; p. 900.  
 Forge, Steam-generating blacksmith's. N. D. Munn. No. 931,951; Aug. 24; Sp. p. 4946; Gaz. vol. 145; p. 848.  
 Forging-machine. G. Peiseler. No. 933,783; Sept. 14; Sp. p. 1675; Gaz. vol. 146; p. 277.  
 Forging-machine back-stop. J. R. Blakeslee, Jr. No. 943,377; Dec. 14; Sp. p. 2890; Gaz. vol. 149; p. 486.  
 Forging-press. A. Christianson. No. 922,392; May 18; Sp. p. 4711; Gaz. vol. 142; p. 816.  
 Forging-press. C. Mercader. No. 939,920; Nov. 9; Sp. p. 3239; Gaz. vol. 148; p. 534.  
 Fork: See Bicycle spring-fork; Carving-fork; Hay-fork; Loading-fork; Mail-car fork; Vehicle spring-fork.  
 Fork. G. J. Russler. No. 923,709; June 1; Sp. p. 1319; Gaz. vol. 143; p. 204.  
 Fork and spade fulcrum attachment. S. L. Condé. No. 931,387; Aug. 17; Sp. p. 3745; Gaz. vol. 145; p. 646.  
 Fork and spoon holder. W. W. Butler. No. 943,517; Dec. 14; Sp. p. 3188; Gaz. vol. 149; p. 536.  
 Fork attachment. E. B. Manasek. No. 934,002; Sept. 14; Sp. p. 2108; Gaz. vol. 146; p. 348.  
 Fork, Olive and pickle. E. F. Menkin. No. 914,060; Mar. 2; Sp. p. 872; Gaz. vol. 140; p. 135.  
 Fork-return mechanism. H. Richardson. No. 915,888; Mar. 23; Sp. p. 4594; Gaz. vol. 140; p. 815.  
 Form. S. C. Mason. No. 921,263; May 11; Sp. p. 2384; Gaz. vol. 142; p. 418.  
 Form-adjusting device. E. E. Winkley. No. 930,823; Aug. 10; Sp. p. 2462; Gaz. vol. 145; p. 426.  
 Form, Bust-. I. Levin. No. 934,922; Sept. 21; Sp. p. 3914; Gaz. vol. 146; p. 679.  
 Form, Dress-. C. A. Ufford. No. 913,329; Feb. 23; Sp. p. 4761; Gaz. vol. 139; p. 852.  
 Form, Dress-. C. A. Ufford. No. 921,184; May 11; Sp. p. 2220; Gaz. vol. 142; p. 391.  
 Form for ladies' waists, &c., Packing-. E. F. Simmons. No. 924,281; June 8; Sp. p. 2590; Gaz. vol. 143; p. 422.  
 Form-gage. E. R. Sextone. No. 938,280; Oct. 26; Sp. p. 5602; Gaz. vol. 147; p. 958.  
 Form, Garment-. E. Levin. No. 941,022; Nov. 23; Sp. p. 5698; Gaz. vol. 148; p. 962.  
 Form, Garment-. A. D. Smith. No. 943,125; Dec. 14; Sp. p. 2372; Gaz. vol. 149; p. 403.  
 Form-holding device, Cut-out-. F. W. Van Camp. No. 919,500; Apr. 27; Sp. p. 5487; Gaz. vol. 141; p. 942.  
 Form locking and adjusting device. E. I. Manent. No. 935,212; Sept. 28; Sp. p. 4503; Gaz. vol. 146; p. 801.  
 Form or center, Collapsible. P. O. O'Connor. No. 942,922; Dec. 14; Sp. p. 1904; Gaz. vol. 149; p. 332.  
 Form, Presser-. J. M. Stein. No. 922,734; May 25; Sp. p. 5426; Gaz. vol. 142; p. 956.  
 Form, Shoulder-presser. J. M. Stein. No. 922,735; May 25; Sp. p. 5431; Gaz. vol. 142; p. 957.  
 Forms, Apparatus for constructing dress-. L. Lemcke. No. 944,796; Dec. 28; Sp. p. 5963; Gaz. vol. 149; p. 1023.  
 Forming-die. I. H. Hill. No. 936,999; Oct. 12; Sp. p. 2893; Gaz. vol. 147; p. 483.  
 Forming-machine. A. T. Sisson. No. 911,911; Feb. 9; Sp. p. 1726; Gaz. vol. 139; p. 320.  
 Forming-machine. H. C. O'Brien. No. 928,616; July 20; Sp. p. 3985; Gaz. vol. 144; p. 695.  
 Formaldehyde, Apparatus for producing. W. B. McLaughlin. No. 932,635; Aug. 31; Sp. p. 6375; Gaz. vol. 145; p. 1100.  
 Formic-aldehyde-containing composition and making the same. H. S. Blackmore. No. 917,706; Apr. 6; Sp. p. 1446; Gaz. vol. 141; p. 254.  
 Foundation construction. E. Coignet. No. 937,694; Oct. 19; Sp. p. 4349; Gaz. vol. 147; p. 741.  
 Foundations, Constructing. J. F. O'Rourke. No. 932,717; Aug. 31; Sp. p. 6544; Gaz. vol. 145; p. 1128.  
 Foundations for compressible, submerged, or moist ground, System of. F. J. M. M. Ducastel. No. 922,106; May 18; Sp. p. 4142; Gaz. vol. 142; p. 724.  
 Foundry-flask. E. P. Power. No. 922,187; May 18; Sp. p. 4300; Gaz. vol. 142; p. 750.  
 Fountain: See Automatic fountain; Drinking-fountain; Horse, &c., automatic fountain; Ink-fountain; Pen-fountain; Printing-press ink-fountain; Stock-fountain; Stock and poultry fountain; Toy fountain; Water-fountain.  
 Fountain and aquarium, Combined. R. Glaser. No. 919,157; Apr. 20; Sp. p. 4532; Gaz. vol. 141; p. 792.  
 Fowl-catcher. J. F. Luckhard. No. 933,257; Sept. 7; Sp. p. 525; Gaz. vol. 146; p. 80.  
 Fowl-roost. J. B. Mason. No. 911,738; Feb. 9; Sp. p. 1417; Gaz. vol. 139; p. 264.  
 Fowl-singing apparatus. M. B. Rennow. No. 915,729; Mar. 23; Sp. p. 4303; Gaz. vol. 140; p. 765.  
 Frame: See Adjustable frame; Bag-frame; Bed-frame; Bicycle-frame; Binder-frame; Brick-setting frame; Calendar-frame; Canopy-frame; Car-frame; Car-body head-frame; Concrete frame; Concrete-structure reinforcing-frame; Controller-frame; Cultivator or harrow frame; Curtain-frame; Cycle-frame; Door-frame; Drill-frame; Drying and stretching frame; Embroidery-frame; Engine-frame; Excavator-frame; Eyeglass-frame; Frying-frame; Furnace-door-frame; Gage-movement frame; Hair-dressing frame; Hammock-frame; Hammock-supporting frame; Hat-frame; Implement-frame; Kitchen-frame; Lantern-frame; Lifting-frame; Locomotive-tender frame; Manhole-frame; Metal frame; Mosquito-bar frame; Net frame; Photographic-film frame; Photographic pressure-printing frame; Photographic-printing frame; Picture-frame; Picture-developing frame; Picture or similar frame; Pillow or cushion frame; Pool-ball frame; Poultry-picking frame; Printing-frame; Purse or bag frame; Quilting-frame; Razor-frame; Ring-spinning frame; Saw-frame; Screen-frame; Screen adjustable frame; Seat-frame; Shade-roller frame; Show-case frame; Spectacle and pince-nez frame; Spinning-frame; Splint-holding frame; Stove-frame; Stretcher-frame; Suit-case frame; Supporting-frame; Tenter-frame; Truck-frame; Truck side frame; Tympant-frame; Umbrella-frame; Vehicle-frame; Warp-frame; Wheelbarrow-frame; Winding-frame; Window-frame; Wire frame.  
 Frame. E. G. Budd. No. 929,283; July 27; Sp. p. 5363; Gaz. vol. 144; p. 944.  
 Frame. L. B. Stetson. No. 941,894; Nov. 30; Sp. p. 7583; Gaz. vol. 148; p. 1276.  
 Frame construction. E. G. Budd. No. 918,959; Apr. 20; Sp. p. 4178; Gaz. vol. 141; p. 730.  
 Frame construction, Side-. O. S. Pulliam. No. 909,022; Jan. 5; Sp. p. 1209; Gaz. vol. 138; p. 194.  
 Frame corner and fastener. W. Goodrow. No. 908,080; Jan. 5; Sp. p. 1321; Gaz. vol. 138; p. 212.  
 Frame corner-fastener. G. W. Bowers. No. 909,055; Jan. 5; Sp. p. 1268; Gaz. vol. 138; p. 204.  
 Frame for molders use, Extensible. J. F. Lamb. No. 914,584; Mar. 9; Sp. p. 1953; Gaz. vol. 140; p. 333.  
 Frame-joint. E. G. Budd. No. 923,810; June 8; Sp. p. 1620; Gaz. vol. 143; p. 268.



*Alphabetical list of inventions—Continued.*

- Frame-joint and soldering the same. L. B. Frahar. No. 943,370; Dec. 14; Sp. p. 2876; Gaz. vol. 149; p. 484.  
 Frames and the like, Corner connection for. C. Schwarting. No. 923,713; June 1; Sp. p. 1324; Gaz. vol. 143; p. 205.  
 Frangible protecting device. F. W. Cole. No. 923,115; May 25; Sp. p. 6229; Gaz. vol. 142; p. 1079.  
 Frangible receptacle-. J. L. Watson, Sr. and Jr. No. 939,572; Nov. 9; Sp. p. 2485; Gaz. vol. 148; p. 412.  
 Fraud-preventing device. G. A. Long. No. 917,629; Apr. 6; Sp. p. 1298; Gaz. vol. 141; p. 229.  
 Freezer. A. Carter. No. 933,230; Sept. 7; Sp. p. 452; Gaz. vol. 146; p. 70.  
 Freezer. G. F. Dickson. No. 941,767; Nov. 30; Sp. p. 7309; Gaz. vol. 148; p. 1231.  
 Freezer. W. M. Milburn. No. 944,625; Dec. 28; Sp. p. 5599; Gaz. vol. 149; p. 971.  
 Freezers, Mechanism for. J. D. Collins. No. 943,735; Dec. 21; Sp. p. 3677; Gaz. vol. 149; p. 639.  
 Freezing apparatus. W. Degener, Jr. No. 921,370; May 11; Sp. p. 2636; Gaz. vol. 142; p. 454.  
 Freezing, Apparatus for concentrating solutions by. E. Monti. No. 925,820; June 22; Sp. p. 5734; Gaz. vol. 143; p. 993.  
 Freezing-plate. R. H. Kirk. No. 938,061; Oct. 26; Sp. p. 5143; Gaz. vol. 147; p. 883.  
 Freight-transfer device. J. L. Adam. No. 926,227; June 29; Sp. p. 6598; Gaz. vol. 143; p. 1165.  
 Friction block or shoe. C. C. W. Simpson. No. 931,093; Aug. 17; Sp. p. 3094; Gaz. vol. 145; p. 543.  
 Friction-brake. E. H. Ten Hopen. No. 917,909; Apr. 13; Sp. p. 1921; Gaz. vol. 141; p. 348.  
 Friction-brake. J. F. Cummings. No. 925,303; June 15; Sp. p. 4662; Gaz. vol. 143; p. 796.  
 Friction-controlling device. S. J. Dibbins. No. 926,392; June 29; Sp. p. 6909; Gaz. vol. 143; p. 1216.  
 Friction-coupling. F. H. Richards. No. 924,937; June 15; Sp. p. 3946; Gaz. vol. 143; p. 674.  
 Friction-coupling, Flexible. H. Baumgartner-Mica. No. 943,804; Dec. 21; Sp. p. 3816; Gaz. vol. 149; p. 663.  
 Friction device. L. H. Broome. No. 916,528; Mar. 30; Sp. p. 5854; Gaz. vol. 140; p. 1050.  
 Friction device. L. Whitcomb. No. 917,220; Apr. 6; Sp. p. 528; Gaz. vol. 141; p. 92.  
 Friction drive apparatus. D. Larson. No. 921,646; May 11; Sp. p. 3195; Gaz. vol. 142; p. 546.  
 Friction-insert for braking-surfaces. F. C. Miller. No. 914,594; Mar. 9; Sp. p. 1972; Gaz. vol. 140; p. 337.  
 Friction member. W. T. Bonner. No. 931,988; Aug. 24; Sp. p. 5025; Gaz. vol. 145; p. 861.  
 Friction-rope-drive elevator. E. Boening. No. 932,432; Aug. 31; Sp. p. 5917; Gaz. vol. 145; p. 1031.  
 Frog. D. Salomone. No. 925,728; June 22; Sp. p. 5517; Gaz. vol. 143; p. 962.  
 Frog, Hard-center. W. H. Dotter and R. S. Hays. No. 940,441; Nov. 16; Sp. p. 4445; Gaz. vol. 148; p. 743.  
 Frog, Reversible. W. H. Dotter and R. S. Hays. No. 940,440; Nov. 16; Sp. p. 4443; Gaz. vol. 148; p. 743.  
 Frog, Safety-. J. Reid. No. 929,249; July 27; Sp. p. 5265; Gaz. vol. 144; p. 933.  
 Frog, Wrecking-. G. E. Nyquist. No. 912,155; Feb. 9; Sp. p. 2299; Gaz. vol. 139; p. 399.  
 Frogs, Anticreeping device for spring-. G. W. Whiteman. No. 930,708; Aug. 10; Sp. p. 2231; Gaz. vol. 145; p. 388.  
 Frogs, Cushioning device for loose rails of spring-. G. W. Whiteman. No. 930,709; Aug. 10; Sp. p. 2233; Gaz. vol. 145; p. 388.  
 Frost-overcoming means. H. A. Hardinge and E. A. Pagel. No. 937,952; Oct. 26; Sp. p. 4902; Gaz. vol. 147; p. 847.  
 Fruit and lard press. F. M. Becker and E. J. Ondrizek. No. 930,130; Aug. 3; Sp. p. 1074; Gaz. vol. 145; p. 173.  
 Fruit and vegetable masher. J. S. Beienburg. No. 911,108; Feb. 2; Sp. p. 162; Gaz. vol. 139; p. 31.  
 Fruit and vegetable mill. J. Koerner. No. 930,194; Aug. 3; Sp. p. 1194; Gaz. vol. 145; p. 195.  
 Fruit, Apparatus for use in the treatment of. J. C. L. Campbell. No. 909,754; Jan. 12; Sp. p. 2666; Gaz. vol. 138; p. 470.  
 Fruit assorting or sizing apparatus. H. K. Rowland. No. 925,950; June 22; Sp. p. 5996; Gaz. vol. 143; p. 1035.  
 Fruit-boiler. E. A. Hall. No. 919,346; Apr. 27; Sp. p. 5122; Gaz. vol. 141; p. 888.  
 Fruit-box. I. N. Hague. No. 924,982; June 15; Sp. p. 4050; Gaz. vol. 143; p. 690.  
 Fruit-carrier. C. A. Wellman. No. 911,634; Feb. 9; Sp. p. 1210; Gaz. vol. 139; p. 229.  
 Fruit-cleaner. F. Stebler. No. 928,558; July 20; Sp. p. 3858; Gaz. vol. 144; p. 675.  
 Fruit-cleaner. F. Stebler. No. 928,559; July 20; Sp. p. 3861; Gaz. vol. 144; p. 676.  
 Fruit-clipper. C. N. Johnson. No. 917,609; Apr. 6; Sp. p. 1261; Gaz. vol. 141; p. 222.  
 Fruit-cooling apparatus. M. W. Groom. No. 939,685; Nov. 9; Sp. p. 2735; Gaz. vol. 148; p. 452.  
 Fruit-cutter. A. J. Brunson. No. 909,145; Jan. 12; Sp. p. 1481; Gaz. vol. 138; p. 269.  
 Fruit-cutter. M. G. Troxell. No. 921,917; May 18; Sp. p. 3757; Gaz. vol. 142; p. 662.  
 Fruit cutter and squeezer. D. H. Mosteller. No. 939,615; Nov. 9; Sp. p. 2589; Gaz. vol. 148; p. 425.  
 Fruit-drying apparatus. E. D. Hough and E. E. Wilson. No. 931,873; Aug. 24; Sp. p. 4759; Gaz. vol. 145; p. 823.  
 Fruit-evaporator. C. O. Lee. No. 924,476; June 8; Sp. p. 2966; Gaz. vol. 143; p. 486.  
 Fruit-gatherer. F. C. Mosier. No. 915,462; Mar. 16; Sp. p. 3721; Gaz. vol. 140; p. 646.  
 Fruit-gatherer. J. T. Swan. No. 925,248; June 15; Sp. p. 4558; Gaz. vol. 143; p. 779.  
 Fruit-gatherer. J. W. Fahnestock. No. 925,885; June 22; Sp. p. 5876; Gaz. vol. 143; p. 1015.  
 Fruit-gatherer. C. G. Hannah. No. 937,797; Oct. 26; Sp. p. 4589; Gaz. vol. 147; p. 795.  
 Fruit-grader. W. C. Anderson. No. 916,647; Mar. 30; Sp. p. 6077; Gaz. vol. 140; p. 1089.  
 Fruit-holding receptacle. F. Perry and O. S. Nordholt. No. 915,696; Mar. 16; Sp. p. 4223; Gaz. vol. 140; p. 728.  
 Fruit-jar. R. N. Burgedorff. No. 934,657; Sept. 21; Sp. p. 3394; Gaz. vol. 146; p. 591.  
 Fruit-jar. H. B. Burns. No. 940,581; Nov. 16; Sp. p. 4745; Gaz. vol. 148; p. 790.  
 Fruit-package. J. A. Hilliker. No. 937,805; Oct. 26; Sp. p. 4599; Gaz. vol. 147; p. 797.  
 Fruit-packing device. E. F. McLaughlin. No. 912,874; Feb. 16; Sp. p. 3835; Gaz. vol. 139; p. 675.  
 Fruit-packing device. F. B. Pease. No. 939,740; Nov. 9; Sp. p. 2856; Gaz. vol. 148; p. 471.  
 Fruit parer, corer, and divider. A. J. Burns. No. 915,658; Mar. 16; Sp. p. 4144; Gaz. vol. 140; p. 715.  
 Fruit-picker. H. Tidd. No. 914,205; Mar. 2; Sp. p. 1175; Gaz. vol. 140; p. 184.  
 Fruit-picker. G. L. Nixon. No. 914,502; Mar. 9; Sp. p. 1780; Gaz. vol. 140; p. 305.  
 Fruit-picker. L. H. Swan. No. 916,055; Mar. 23; Sp. p. 4911; Gaz. vol. 140; p. 870.  
 Fruit-picker. J. D. Houck. No. 921,402; May 11; Sp. p. 2699; Gaz. vol. 142; p. 463.  
 Fruit-picker. P. McConville. No. 925,212; June 15; Sp. p. 4496; Gaz. vol. 143; p. 768.  
 Fruit-picker. R. P. Andersen. No. 929,647; Aug. 3; Sp. p. 2; Gaz. vol. 145; p. 3.  
 Fruit-picker. C. Virgin. No. 938,355; Oct. 26; Sp. p. 5795; Gaz. vol. 147; p. 984.  
 Fruit-picker. J. R. Johnson. No. 941,258; Nov. 23; Sp. p. 6199; Gaz. vol. 148; p. 1040.  
 Fruit-picker. E. A. Ableman. No. 942,302; Dec. 7; Sp. p. 583; Gaz. vol. 149; p. 93.  
 Fruit-picker's bag. E. J. Grant. No. 929,209; July 27; Sp. p. 5189; Gaz. vol. 144; p. 920.  
 Fruit press and strainer. C. Schaubel. No. 934,937; Sept. 21; Sp. p. 3948; Gaz. vol. 146; p. 685.  
 Fruit-processing device. C. F. Fleming. No. 916,290; Mar. 23; Sp. p. 5338; Gaz. vol. 140; p. 945.  
 Fruit-processing machine. J. Wilkie. No. 910,336; Jan. 19; Sp. p. 3892; Gaz. vol. 138; p. 700.  
 Fruit-seeder. F. Lyman. No. 908,588; Jan. 5; Sp. p. 332; Gaz. vol. 138; p. 54.  
 Fruit-sizer. H. B. Cary. No. 931,993; Aug. 24; Sp. p. 5033; Gaz. vol. 145; p. 862.  
 Fruit-sorter. A. D. Huntley. No. 909,413; Jan. 12; Sp. p. 1981; Gaz. vol. 138; p. 353.  
 Fruit-stand, Folding. J. H. Sabo. No. 914,606; Mar. 9; Sp. p. 1998; Gaz. vol. 140; p. 341.  
 Fruit-stoning machine. J. H. Smith. No. 913,571; Feb. 23; Sp. p. 5275; Gaz. vol. 139; p. 934.  
 Fruit, Treating. J. C. L. Campbell. No. 909,542; Jan. 12; Sp. p. 2241; Gaz. vol. 138; p. 398.  
 Fruit, vegetable, and meat slicing machine. F. Hess. No. 918,320; Apr. 13; Sp. p. 2757; Gaz. vol. 141; p. 489.  
 Fruit-washer. C. H. Hallauer. No. 935,201; Sept. 28; Sp. p. 4479; Gaz. vol. 146; p. 797.  
 Fruits or vegetables, Preserving. A. Huch. No. 909,600; Jan. 12; Sp. p. 2353; Gaz. vol. 138; p. 418.  
 Frying device. J. Renner. No. 913,431; Feb. 23; Sp. p. 4956; Gaz. vol. 139; p. 887.  
 Frying-frame. A. Gwinn and O. A. Hovick. No. 924,981; June 15; Sp. p. 4049; Gaz. vol. 143; p. 690.  
 Fuel. J. Gunn. No. 920,734; May 4; Sp. p. 1307; Gaz. vol. 142; p. 211.  
 Fuel. G. B. Selden. No. 929,503; July 27; Sp. p. 5790; Gaz. vol. 144; p. 1016.  
 Fuel. W. G. Bloss. No. 930,526; Aug. 10; Sp. p. 1865; Gaz. vol. 145; p. 329.  
 Fuel and gas from peat, Apparatus for producing. W. L. Shepard. No. 936,049; Oct. 5; Sp. p. 954; Gaz. vol. 147; p. 143.  
 Fuel, Artificial. J. W. Leadbeater. No. 909,626; Jan. 12; Sp. p. 2412; Gaz. vol. 138; p. 427.  
 Fuel, Artificial. I. Foreman and J. L. Thornton. No. 912,554; Feb. 16; Sp. p. 3171; Gaz. vol. 139; p. 569.  
 Fuel, Artificial. A. H. Ege. No. 913,713; Mar. 2; Sp. p. 76; Gaz. vol. 140; p. 14.  
 Fuel, Artificial. R. W. Howell. No. 941,577; Nov. 30; Sp. p. 6892; Gaz. vol. 148; p. 1167.  
 Fuel-briquet machinery. R. Devillers. No. 920,838; May 4; Sp. p. 1506; Gaz. vol. 142; p. 243.  
 Fuel burner, Gaseous-. A. H. Bernhard. No. 917,405; Apr. 6; Sp. p. 903; Gaz. vol. 141; p. 156.  
 Fuel burner, Liquid-. W. E. Gard. No. 918,310; Apr. 13; Sp. p. 2736; Gaz. vol. 141; p. 486.  
 Fuel composition and producing the same. L. R. Palmer. No. 942,213; Dec. 7; Sp. p. 394; Gaz. vol. 149; p. 61.  
 Fuel, Composition for treating. E. H. Ellis. No. 911,960; Feb. 9; Sp. p. 1909; Gaz. vol. 139; p. 336.  
 Fuel, Compound. A. D. Shepard. No. 914,523; Mar. 9; Sp. p. 1835; Gaz. vol. 140; p. 312.  
 Fuel, Domestic oil or steam-producing. G. Griffiths. No. 934,307; Sept. 14; Sp. p. 2706; Gaz. vol. 146; p. 449.  
 Fuel-economizer. F. W. Conmey. No. 918,970; Apr. 20; Sp. p. 4198; Gaz. vol. 141; p. 733.

*Alphabetical list of inventions—Continued.*

- Fuel, Economizing. D. Allen and A. C. Pyper. No. 942,530; Dec. 7; Sp. p. 1053; Gaz. vol. 149; p. 170.  
 Fuel-feeder. A. Manuel. No. 924,483; June 8; Sp. p. 2981; Gaz. vol. 143; p. 488.  
 Fuel-feeder. W. H. Harding and C. M. Saeger. No. 940,313; Nov. 16; Sp. p. 4148; Gaz. vol. 148; p. 700.  
 Fuel-feeding and regulating apparatus. J. Hutchings. No. 944,868; Dec. 28; Sp. p. 6126; Gaz. vol. 149; p. 1053.  
 Fuel-feeding apparatus. R. Putnam. No. 941,587; Nov. 30; Sp. p. 6907; Gaz. vol. 148; p. 1169.  
 Fuel-handling apparatus, Fluid-. R. S. Mitchell. No. 936,470; Oct. 12; Sp. p. 1841; Gaz. vol. 147; p. 306.  
 Fuel-igniter. A. Esposito. No. 934,512; Sept. 21; Sp. p. 3104; Gaz. vol. 146; p. 541.  
 Fuel, Making artificial. M. J. Yampolsky. No. 926,449; June 29; Sp. p. 7016; Gaz. vol. 143; p. 1236.  
 Fuel-pan. T. D. Bausher. No. 927,705; July 13; Sp. p. 2090; Gaz. vol. 144; p. 363.  
 Fuel-producer. W. L. Shepard and H. W. Wickham. No. 940,945; Nov. 23; Sp. p. 5529; Gaz. vol. 148; p. 936.  
 Fuel-regulation system. H. Lemp. No. 935,916; Oct. 5; Sp. p. 680; Gaz. vol. 147; p. 99.  
 Fuel-supply system. M. M. Wood. No. 924,869; June 15; Sp. p. 3815; Gaz. vol. 143; p. 652.  
 Fuel system, Double-tank. H. Lemp. No. 922,604; May 25; Sp. p. 5164; Gaz. vol. 142; p. 915.  
 Fuel-treating composition. E. H. Ellis. No. 936,241; Oct. 5; Sp. p. 1317; Gaz. vol. 147; p. 202.  
 Fume-arrester. W. A. Rockliff and J. W. Booth. No. 922,516; May 25; Sp. p. 4975; Gaz. vol. 142; p. 885.  
 Fumigating apparatus. C. E. McFadden. No. 916,762; Mar. 30; Sp. p. 6273; Gaz. vol. 140; p. 1122.  
 Fumigator. L. S. Livingstone. No. 917,626; Apr. 6; Sp. p. 1291; Gaz. vol. 141; p. 228.  
 Fumigator. J. Hauck. No. 922,582; May 25; Sp. p. 5115; Gaz. vol. 142; p. 907.  
 Funeral-cars, Body for auto. J. W. Butler, F. R. Briggs, and E. H. Clark. No. 928,179; July 13; Sp. p. 3044; Gaz. vol. 144; p. 520.  
 Funnel. G. A. Hanly. No. 917,596; Apr. 6; Sp. p. 1237; Gaz. vol. 141; p. 217.  
 Funnel. C. R. Barney. No. 918,814; Apr. 20; Sp. p. 3846; Gaz. vol. 141; p. 680.  
 Funnel. W. Lewis. No. 928,138; July 13; Sp. p. 2953; Gaz. vol. 144; p. 505.  
 Funnel. L. E. Edmunds. No. 930,165; Aug. 3; Sp. p. 1144; Gaz. vol. 145; p. 186.  
 Funnel. J. F. Beatty. No. 936,511; Oct. 12; Sp. p. 1934; Gaz. vol. 147; p. 319.  
 Funnel. L. E. Edmunds. No. 943,400; Dec. 14; Sp. p. 2932; Gaz. vol. 149; p. 494.  
 Funnel. J. F. Rugg. No. 944,914; Dec. 28; Sp. p. 6216; Gaz. vol. 149; p. 1068.  
 Funnel, Automatic self-closing. J. Mathis and H. J. Brennan. No. 925,931; June 22; Sp. p. 5964; Gaz. vol. 143; p. 1029.  
 Funnel-separator. O. Zerkowit. No. 935,722; Oct. 5; Sp. p. 211; Gaz. vol. 147; p. 34.  
 Fur-stretcher, adjustable. H. P. Hanse. No. 912,311; Feb. 16; Sp. p. 2653; Gaz. vol. 139; p. 487.  
 Furnace: See Annealing-furnace; Annealing and hardening furnace; Assay-furnace; Boiler-furnace; Canning-furnace; Chain-grate furnace; Chemical-reaction furnace; Coal-gasifying furnace; Coking-furnace; Combustion-furnace; Crucible-furnace; Distillation-furnace; Drier-furnace; Drying-furnace; Electric furnace; Electric transformer-furnace; Electrical furnace; Firing-furnace; Gas-furnace; Gas-generating crucible-furnace; Gas-producing furnace; Glass-furnace; Glass heating and drawing furnace; Glass-tank furnace; Hearth-furnace; Heating-furnace; Hot-air furnace; Hydrocarbon-furnace; Hydrocarbon-burning furnace; Incandescent-furnace; Induction-furnace; Locomotive and other furnace; Melting-furnace; Metallurgical furnace; Mill-furnace; Oil and gas furnace; Oil-burning furnace; Open-hearth furnace; Ore-reducing furnace; Ore-roasting furnace; Ore-treating furnace; Ore-volatilizing furnace; Plate-bar-heating furnace; Regenerative furnace; Regenerative reversing-furnace; Retort-furnace; Reversing-furnace; Revolving furnace; Roasting-furnace; Roasting and like furnace; Self-regulating furnace; Smelting-furnace; Smoke-consuming furnace; Soldering-furnace; Tapping-furnace; Tempering-furnace; Transformer-furnace; Updraft-furnace; Wagon and portable furnace; Welding-furnace.  
 Furnace. R. L. Walker. No. 908,913; Jan. 5; Sp. p. 993; Gaz. vol. 138; p. 159.  
 Furnace. G. Prescott. No. 909,218; Jan. 12; Sp. p. 1620; Gaz. vol. 138; p. 291.  
 Furnace. A. Wardzinski. No. 909,488; Jan. 12; Sp. p. 2137; Gaz. vol. 138; p. 378.  
 Furnace. W. T. Dodge. No. 909,767; Jan. 12; Sp. p. 2684; Gaz. vol. 138; p. 474.  
 Furnace. D. M. Jackson and J. T. Aiken. No. 909,801; Jan. 12; Sp. p. 2754; Gaz. vol. 138; p. 485.  
 Furnace. D. Johnson. No. 911,400; Feb. 2; Sp. p. 735; Gaz. vol. 139; p. 127.  
 Furnace. J. A. Bradburn. No. 911,550; Feb. 2; Sp. p. 1001; Gaz. vol. 139; p. 174.  
 Furnace. S. Dewhirst. No. 912,828; Feb. 16; Sp. p. 3772; Gaz. vol. 139; p. 663.  
 Furnace. J. D. Reekie. No. 913,236; Feb. 23; Sp. p. 4575; Gaz. vol. 139; p. 821.  
 Furnace. P. B. and L. J. Heckler. No. 913,496; Feb. 23; Sp. p. 5086; Gaz. vol. 139; p. 908.  
 Furnace. L. P. Cohen. No. 913,697; Mar. 2; Sp. p. 36; Gaz. vol. 140; p. 8.  
 Furnace. R. A. Bailey and C. C. Hildebrand. No. 914,226; Mar. 2; Sp. p. 1219; Gaz. vol. 140; p. 190.  
 Furnace. R. H. Sayre. No. 914,314; Mar. 2; Sp. p. 1395; Gaz. vol. 140; p. 217.  
 Furnace. M. Bittrich. No. 915,156; Mar. 16; Sp. p. 3116; Gaz. vol. 140; p. 547.  
 Furnace. T. S. Smith. No. 915,235; Mar. 16; Sp. p. 3272; Gaz. vol. 140; p. 572.  
 Furnace. C. Schweizer. No. 915,387; Mar. 16; Sp. p. 3574; Gaz. vol. 140; p. 622.  
 Furnace. V. F. Lasso. No. 915,682; Mar. 16; Sp. p. 4197; Gaz. vol. 140; p. 723.  
 Furnace. U. Wedge. No. 916,234; Mar. 23; Sp. p. 5247; Gaz. vol. 140; p. 927.  
 Furnace. T. S. Blair, Jr. (Reissue). No. 12,939; Apr. 13; Sp. p. 3108; Gaz. vol. 141; p. 544.  
 Furnace. L. L. Knox. No. 919,027; Apr. 20; Sp. p. 4297; Gaz. vol. 141; p. 751.  
 Furnace. L. L. Knox. No. 919,186; Apr. 20; Sp. p. 4591; Gaz. vol. 141; p. 801.  
 Furnace. L. L. Knox. No. 919,187; Apr. 20; Sp. p. 4594; Gaz. vol. 141; p. 802.  
 Furnace. L. L. Knox. No. 919,188; Apr. 20; Sp. p. 4597; Gaz. vol. 141; p. 802.  
 Furnace. L. L. Knox. No. 919,189; Apr. 20; Sp. p. 4598; Gaz. vol. 141; p. 802.  
 Furnace. A. L. Yates. No. 919,802; Apr. 27; Sp. p. 6066; Gaz. vol. 141; p. 1044.  
 Furnace. L. S. Hughes. No. 920,333; May 4; Sp. p. 497; Gaz. vol. 142; p. 78.  
 Furnace. C. Schweizer. No. 921,169; May 11; Sp. p. 2186; Gaz. vol. 142; p. 385.  
 Furnace. D. C. Artman. No. 923,478; June 1; Sp. p. 818; Gaz. vol. 143; p. 122.  
 Furnace. M. J. and H. B. Farquhar. No. 923,784; June 1; Sp. p. 1522; Gaz. vol. 143; p. 229.  
 Furnace. F. V. Knauss. No. 923,976; June 8; Sp. p. 1936; Gaz. vol. 143; p. 322.  
 Furnace. F. S. Lang. No. 925,486; June 22; Sp. p. 5004; Gaz. vol. 143; p. 884.  
 Furnace. T. S. Blair, Jr. No. 927,098; July 6; Sp. p. 842; Gaz. vol. 144; p. 135.  
 Furnace. C. Kroeschell. No. 927,861; July 13; Sp. p. 2418; Gaz. vol. 144; p. 413.  
 Furnace. C. F. Diller. No. 928,907; July 20; Sp. p. 4566; Gaz. vol. 144; p. 795.  
 Furnace. W. M. Page. No. 929,701; Aug. 3; Sp. p. 128; Gaz. vol. 145; p. 23.  
 Furnace. G. F. Rendall. No. 930,492; Aug. 10; Sp. p. 1745; Gaz. vol. 145; p. 315.  
 Furnace. J. Caygill. No. 931,565; Aug. 17; Sp. p. 4071; Gaz. vol. 145; p. 701.  
 Furnace. W. C. Wilbur. No. 931,663; Aug. 17; Sp. p. 4281; Gaz. vol. 145; p. 731.  
 Furnace. S. Sparling. No. 931,969; Aug. 24; Sp. p. 4987; Gaz. vol. 145; p. 854.  
 Furnace. F. H. C. Mey. No. 932,044; Aug. 24; Sp. p. 5161; Gaz. vol. 145; p. 880.  
 Furnace. W. T. Summers. No. 932,595; Aug. 31; Sp. p. 6276; Gaz. vol. 145; p. 1086.  
 Furnace. R. Rouse, Jr. No. 934,018; Sept. 14; Sp. p. 2136; Gaz. vol. 146; p. 353.  
 Furnace. A. G. Ingalls. No. 935,759; Oct. 5; Sp. p. 292; Gaz. vol. 147; p. 46.  
 Furnace. J. C. Osborne. No. 968,693; Nov. 2; Sp. p. 544; Gaz. vol. 148; p. 84.  
 Furnace. W. B. Merkel. No. 939,526; Nov. 9; Sp. p. 2382; Gaz. vol. 148; p. 395.  
 Furnace. U. Wedge. No. 939,934; Nov. 9; Sp. p. 3267; Gaz. vol. 148; p. 539.  
 Furnace. J. R. Fortune. No. 939,997; Nov. 16; Sp. p. 3412; Gaz. vol. 148; p. 558.  
 Furnace. E. V. Coulston. No. 940,789; Nov. 23; Sp. p. 5215; Gaz. vol. 148; p. 885.  
 Furnace. L. Whittaker. No. 941,480; Nov. 30; Sp. p. 6698; Gaz. vol. 148; p. 1135.  
 Furnace. M. W. Sewall. No. 941,657; Nov. 30; Sp. p. 7060; Gaz. vol. 148; p. 1193.  
 Furnace. M. W. Sewall. No. 941,658; Nov. 30; Sp. p. 7062; Gaz. vol. 148; p. 1193.  
 Furnace. M. Zippler, Sr. No. 942,572; Dec. 7; Sp. p. 1754; Gaz. vol. 149; p. 284.  
 Furnace. M. Kelly. No. 943,194; Dec. 14; Sp. p. 2500; Gaz. vol. 149; p. 421.  
 Furnace. E. Alls. No. 943,763; Dec. 21; Sp. p. 3730; Gaz. vol. 149; p. 649.  
 Furnace. W. A. Clarke. No. 943,813; Dec. 21; Sp. p. 3832; Gaz. vol. 149; p. 666.  
 Furnace. A. Tomkins. No. 944,299; Dec. 28; Sp. p. 4858; Gaz. vol. 149; p. 856.  
 Furnace. H. P. Bobbitt. No. 944,591; Dec. 28; Sp. p. 5534; Gaz. vol. 149; p. 959.  
 Furnace and converter twyer, Blast-. C. Robinson. No. 911,614; Feb. 9; Sp. p. 1171; Gaz. vol. 139; p. 222.  
 Furnace and heater. J. A. Penney. No. 923,697; June 1; Sp. p. 1286; Gaz. vol. 143; p. 200.  
 Furnace-arch. F. Girtanner. No. 910,809; Jan. 26; Sp. p. 4880; Gaz. vol. 138; p. 881.  
 Furnace arrangement, Tempering-. J. B. Nau. No. 916,477; Mar. 30; Sp. p. 5731; Gaz. vol. 140; p. 1034.  
 Furnace auxiliary heating device. E. T. Marsh. No. 937,624; Oct. 19; Sp. p. 4225; Gaz. vol. 147; p. 720.



*Alphabetical list of inventions—Continued.*

- Furnace bridge-walls, Protecting-cap for. J. R. Fortune. No. 941,569; Nov. 30; Sp. p. 6877; Gaz. vol. 148; p. 1164.
- Furnace-casing ring. G. E. Camp. No. 944,257; Dec. 28; Sp. p. 4764; Gaz. vol. 149; p. 842.
- Furnace casting apparatus, Blast-. M. Killean. No. 912,688; Feb. 16; Sp. p. 3448; Gaz. vol. 139; p. 615.
- Furnace-charging apparatus. F. C. Roberts. No. 910,233; Jan. 19; Sp. p. 3650; Gaz. vol. 138; p. 663.
- Furnace-charging apparatus. D. Giles. No. 933,031; Aug. 31; Sp. p. 7158; Gaz. vol. 145; p. 1229.
- Furnace-charging apparatus, Blast-. R. H. Lee and W. P. Martin. No. 914,432; Mar. 9; Sp. p. 1654; Gaz. vol. 140; p. 282.
- Furnace-charging apparatus, Blast-. G. C. Shackelford. No. 926,143; June 29; Sp. p. 6396; Gaz. vol. 143; p. 1135.
- Furnace-charging apparatus, Blast-. F. H. Crockard. No. 938,411; Oct. 26; Sp. p. 5917; Gaz. vol. 147; p. 1003.
- Furnace-charging apparatus, Blast-. W. and A. Crooke. No. 939,671; Nov. 9; Sp. p. 2711; Gaz. vol. 148; p. 447.
- Furnace-charging apparatus, Open-hearth-. B. W. Head. No. 913,658; Feb. 23; Sp. p. 5467; Gaz. vol. 139; p. 962.
- Furnace-charging mechanism. D. Baker. No. 909,049; Jan. 5; Sp. p. 1257; Gaz. vol. 138; p. 202.
- Furnace-charging mechanism. D. Baker. No. 910,264; Jan. 19; Sp. p. 3741; Gaz. vol. 138; p. 675.
- Furnace construction, Blast-. J. C. Barrett. No. 943,374; Dec. 14; Sp. p. 2884; Gaz. vol. 149; p. 455.
- Furnace-door. O. Aubé. No. 925,444; June 22; Sp. p. 4935; Gaz. vol. 143; p. 871.
- Furnace-door. C. G. Atwater. No. 929,534; July 27; Sp. p. 5843; Gaz. vol. 144; p. 1027.
- Furnace-door. G. de Grahl. No. 942,822; Dec. 7; Sp. p. 1624; Gaz. vol. 149; p. 267.
- Furnace-door frame. L. L. Knox. No. 910,924; Jan. 26; Sp. p. 5082; Gaz. vol. 138; p. 916.
- Furnace-door frame. L. L. Knox. No. 910,925; Jan. 26; Sp. p. 5084; Gaz. vol. 138; p. 916.
- Furnace door-frame and roof-sweback. J. B. McKennan, F. E. Parks, and S. W. Gillin. No. 918,356; Apr. 13; Sp. p. 2826; Gaz. vol. 141; p. 500.
- Furnace-door-frame guard or fender. L. L. Knox. No. 910,926; Jan. 26; Sp. p. 5086; Gaz. vol. 138; p. 917.
- Furnace-door-operating mechanism. S. A. Holcomb. No. 934,529; Sept. 21; Sp. p. 3134; Gaz. vol. 146; p. 547.
- Furnace-door operator. C. A. Anderson. No. 922,234; May 18; Sp. p. 4410; Gaz. vol. 142; p. 765.
- Furnace dust, Manufacture of agglomerated bodies from blast-. W. Schumacher. No. 933,269; Sept. 7; Sp. p. 553; Gaz. vol. 146. p. 84.
- Furnace dust, Manufacture of coherent bodies from blast-. W. Schumacher. No. 933,270; Sept. 7; Sp. p. 554; Gaz. vol. 146; p. 85.
- Furnace feed mechanism. W. C. Robinson. No. 914,188; Mar. 2; Sp. p. 1151; Gaz. vol. 140; p. 179.
- Furnace-feeder. L. P. Bolander. No. 931,258; Aug. 17; Sp. p. 3455; Gaz. vol. 145; p. 599.
- Furnace fire-dust. J. R. Fortune. No. 939,996; Nov. 16; Sp. p. 3410; Gaz. vol. 148; p. 588.
- Furnace-flue dust, Utilizing. T. M. Phillips. No. 919,073; Apr. 20; Sp. p. 4378; Gaz. vol. 141; p. 764.
- Furnace for burning hydrocarbons. P. O. Keilholtz. No. 915,097; Mar. 16; Sp. p. 2975; Gaz. vol. 140; p. 527.
- Furnace for the cementation of articles of iron, steel, and alloys of steel. F. Giolitti. No. 933,642; Sept. 7; Sp. p. 1379; Gaz. vol. 146; p. 207.
- Furnace for the treatment of metals. W. Schemmann and J. Bronn. No. 915,488; Mar. 16; Sp. p. 3767; Gaz. vol. 140; p. 655.
- Furnace for uniformly heating metals. W. N. Best. No. 936,856; Oct. 12; Sp. p. 2618; Gaz. vol. 147; p. 436.
- Furnace for volatile metals. W. Hommel. No. 932,279; Aug. 24; Sp. p. 5618; Gaz. vol. 145; p. 958.
- Furnace-front. J. Howden. No. 923,178; June 1; Sp. p. 127; Gaz. vol. 143; p. 20.
- Furnace front and door. T. Downie and D. Brown. No. 930,360; Aug. 10; Sp. p. 1496; Gaz. vol. 145; p. 272.
- Furnace fuel-conveyer. E. Anderson. No. 912,931; Feb. 16; Sp. p. 3938; Gaz. vol. 139; p. 693.
- Furnace fuel-feeder. D. F. Nisbet. No. 910,305; Jan. 19; Sp. p. 3829; Gaz. vol. 138; p. 690.
- Furnace fume-arrester, Smelting-. H. S. Double. No. 917,561; Apr. 6; Sp. p. 1173; Gaz. vol. 141; p. 205.
- Furnace-grate. R. Allen. No. 910,766; Jan. 26; Sp. p. 4786; Gaz. vol. 138; p. 866.
- Furnace-grate. J. B. Bernhard. No. 917,406; Apr. 6; Sp. p. 904; Gaz. vol. 141; p. 156.
- Furnace-grate. E. Katzing. No. 926,335; June 29; Sp. p. 6811; Gaz. vol. 143; p. 1198.
- Furnace-grate. W. J. Thomas. No. 937,487; Oct. 19; Sp. p. 3963; Gaz. vol. 147; p. 673.
- Furnace-grate. W. H. Baush. No. 940,849; Nov. 23; Sp. p. 5334; Gaz. vol. 148; p. 904.
- Furnace-grate. F. Girtanner. No. 941,572; Nov. 30; Sp. p. 6885; Gaz. vol. 148; p. 1165.
- Furnace grate and ash-pit. C. Smith. No. 908,510; Jan. 5; Sp. p. 156; Gaz. vol. 138; p. 28.
- Furnace-grate-operating mechanism. H. Bevan. No. 938,112; Oct. 26; Sp. p. 5246; Gaz. vol. 147; p. 900.
- Furnace-grate, Steam-generator. R. A. Tarr. No. 927,295; July 6; Sp. p. 1213; Gaz. vol. 144; p. 199.
- Furnace mechanical charging apparatus, Blast-. L. Geuze. No. 938,572; Nov. 2; Sp. p. 297; Gaz. vol. 148; p. 44.
- Furnace or cupola bottom-door hoist. J. Hyslop. No. 911,726; Feb. 9; Sp. p. 1396; Gaz. vol. 139; p. 260.
- Furnace or forge. W. Scrimgeour, Jr. No. 936,573; Oct. 12; Sp. p. 2055; Gaz. vol. 147; p. 340.
- Furnace-oven. F. T. Booth. No. 932,953; Aug. 31; Sp. p. 7002; Gaz. vol. 145; p. 1203.
- Furnace-oven, Removable. N. E. Storms. No. 928,816; July 20; Sp. p. 4368; Gaz. vol. 144; p. 761.
- Furnace-pan. T. C. Evans. No. 912,980; Feb. 16; Sp. p. 4041; Gaz. vol. 139; p. 709.
- Furnace-pipe fitting. H. B. Eager. No. 925,762; June 22; Sp. p. 5611; Gaz. vol. 143; p. 972.
- Furnace pneumatic discharging apparatus. S. E. Hitt. No. 916,314; Mar. 23; Sp. p. 5379; Gaz. vol. 140; p. 955.
- Furnace-port-cooling means. F. E. Parks. No. 932,493; Aug. 31; Sp. p. 6063; Gaz. vol. 145; p. 1051.
- Furnace products, Treating electric-. A. C. Higgins and G. N. Jeppson. No. 944,436; Dec. 28; Sp. p. 5155; Gaz. vol. 149; p. 905.
- Furnace-raking mechanism. A. Tucker. No. 931,815; Aug. 24; Sp. p. 4645; Gaz. vol. 145; p. 804.
- Furnace-regulating mechanism. A. W. Puddington. No. 912,616; Feb. 16; Sp. p. 3300; Gaz. vol. 139; p. 591.
- Furnace-regulator. F. D. Kees. No. 913,507; Feb. 23; Sp. p. 5108; Gaz. vol. 139; p. 912.
- Furnace regulator and radiator, Combined. F. S. Harmon. No. 927,792; July 13; Sp. p. 2266; Gaz. vol. 144; p. 391.
- Furnace-regulator, Automatic. M. J. and H. B. Farquhar. No. 923,783; June 1; Sp. p. 1519; Gaz. vol. 143; p. 229.
- Furnace slag, Machinery for conveying blast-. E. A. Uehling. No. 923,218; June 1; Sp. p. 200; Gaz. vol. 143; p. 33.
- Furnace smelting, Blast-. J. W. Nesmith. No. 910,082; Jan. 19; Sp. p. 3321; Gaz. vol. 138; p. 611.
- Furnace smelting, Blast-. J. W. Nesmith. No. 910,480; Jan. 19; Sp. p. 4198; Gaz. vol. 138; p. 750.
- Furnace stock-distribution, Blast-. K. L. Landgrebe. No. 918,172; Apr. 13; Sp. p. 2452; Gaz. vol. 141; p. 439.
- Furnace tap-spout, Smelting-. F. D. Gross. No. 910,371; Jan. 19; Sp. p. 3958; Gaz. vol. 138; p. 712.
- Furnace terminal, Electric-. E. C. Speiden. No. 935,939; Oct. 5; Sp. p. 725; Gaz. vol. 147; p. 107.
- Furnace-top. F. C. Stimmel. No. 944,296; Dec. 28; Sp. p. 4852; Gaz. vol. 149; p. 855.
- Furnace traveling grate. J. F. Cunneen. No. 916,112; Mar. 23; Sp. p. 5015; Gaz. vol. 140; p. 888.
- Furnace twyer-sight, Blast-. U. G. Davis. No. 911,579; Feb. 9; Sp. p. 1087; Gaz. vol. 139; p. 212.
- Furnace-walls, Means for cooling. L. L. Knox. No. 919,190; Apr. 20; Sp. p. 4601; Gaz. vol. 141; p. 803.
- Furnace water-back. T. Thornburg. No. 929,899; Aug. 3; Sp. p. 601; Gaz. vol. 145; p. 94.
- Furnace water-heater attachment, Hot-air-. C. Smith. No. 932,065; Aug. 24; Sp. p. 5200; Gaz. vol. 145; p. 887.
- Furnaces, Air and gas port for open-hearth. F. D. Carney and T. McEntee. No. 919,125; Apr. 20; Sp. p. 4476; Gaz. vol. 141; p. 781.
- Furnaces and converters, Operating blast-. J. Gayley. No. 935,628; Sept. 28; Sp. p. 5347; Gaz. vol. 146; p. 938.
- Furnaces and the like, Air or gas preheating device for. W. B. McLusky. No. 925,215; June 15; Sp. p. 4510; Gaz. vol. 143; p. 769.
- Furnaces, &c., Apparatus for charging and distributing the stock in blast-. W. C. Mitchell. No. 908,594; Jan. 5; Sp. p. 347; Gaz. vol. 138; p. 56.
- Furnaces, Apparatus for feeding flour iron ore to blast-. E. L. Harper, Jr. No. 914,830; Mar. 9; Sp. p. 2472; Gaz. vol. 140; p. 413.
- Furnaces, Bridge-wall for. G. Warrington and L. D. Lovekin. No. 944,753; Dec. 28; Sp. p. 5883; Gaz. vol. 149; p. 1014.
- Furnaces, Change-over device or valve for Siemens-Martin or other regenerative. G. von Bechen. No. 927,930; July 13; Sp. p. 2571; Gaz. vol. 144; p. 438.
- Furnaces, coke-ovens, and the like from a distance, Means for operating the doors of retort-. P. Riecke. No. 925,651; June 22; Sp. p. 5352; Gaz. vol. 143; p. 938.
- Furnaces, Combined building-ventilator and check for. J. J. Berry. No. 934,881; Sept. 21; Sp. p. 3829; Gaz. vol. 146; p. 664.
- Furnaces, Device for feeding air to. A. W. Brand. No. 934,275; Sept. 14; Sp. p. 2642; Gaz. vol. 146; p. 439.
- Furnaces, Device for the consumption of smoke in. A. Gropengieszer. No. 912,561; Feb. 16; Sp. p. 3188; Gaz. vol. 139; p. 571.
- Furnaces, Firing. G. L. Prentiss. No. 931,645; Aug. 17; Sp. p. 4228; Gaz. vol. 145; p. 724.
- Furnaces, Flame-indicator for. F. Gelstharp. No. 931,594; Aug. 17; Sp. p. 4119; Gaz. vol. 145; p. 709.
- Furnaces, Flue and valve system for regenerative. J. B. McKennan. No. 936,931; Oct. 12; Sp. p. 2759; Gaz. vol. 147; p. 461.
- Furnaces for boilers, &c., Burning fuel in. C. M. Gurnee. No. 925,632; June 22; Sp. p. 5303; Gaz. vol. 143; p. 932.
- Furnaces from heat, fumes, and dust, Means for protecting operatives of zinc and analogous. E. Dor-Delatire. No. 921,375; May 11; Sp. p. 2648; Gaz. vol. 142; p. 455.
- Furnaces, Fuel-economizing apparatus for. H. Luckenbach. No. 924,805; June 15; Sp. p. 3677; Gaz. vol. 143; p. 630.
- Furnaces, Fuel-feeder for. E. T. Winkler. No. 935,875; Oct. 5; Sp. p. 596; Gaz. vol. 147; p. 85.
- Furnaces, Gas-analyzer for. C. O. Mailloux and H. J. Westover. No. 942,861; Dec. 7; Sp. p. 1725; Gaz. vol. 149; p. 280.
- Furnaces, Means for running off slag from blast-. J. Marsden and E. Pearson. No. 922,304; May 18; Sp. p. 4533; Gaz. vol. 142; p. 787.
- Furnaces, Melting-hearth for electric induction-. C. Greenwald. No. 943,403; Dec. 14; Sp. p. 2939; Gaz. vol. 149; p. 495.
- Furnaces, Metal port and end-wall construction for regenerative. J. B. McKennan and F. E. Parks. No. 932,411; Aug. 24; Sp. p. 5863; Gaz. vol. 145; p. 1001.

*Alphabetical list of inventions—Continued.*

- Furnaces, Method of and apparatus for returning flue-dust to blast-. W. B. Hubbard. No. 943,599; Dec. 14; Sp. p. 3338; Gaz. vol. 149; p. 563.
- Furnaces, Oil-superheater for steam-boiler. T. W. Heintzelman and J. G. Camp. No. 920,570; May 4; Sp. p. 966; Gaz. vol. 142; p. 157.
- Furnaces, Operating electric. P. L. T. Héroult. No. 914,346; Mar. 2; Sp. p. 1464; Gaz. vol. 140; p. 228.
- Furnaces, Plant for heating the gas and air for combustion in gas-. O. Zahn. No. 936,844; Oct. 12; Sp. p. 2594; Gaz. vol. 147; p. 433.
- Furnaces, Protecting. A. W. Allen. No. 918,941; Apr. 20; Sp. p. 4139; Gaz. vol. 141; p. 724.
- Furnaces, Rabble for ore-roasting. A. V. Leggo. No. 940,537; Nov. 16; Sp. p. 4646; Gaz. vol. 148; p. 774.
- Furnaces, Refining of steel in electric. O. Thallner. No. 925,612; June 22; Sp. p. 5267; Gaz. vol. 143; p. 925.
- Furnaces, Reversing apparatus for regenerative. T. S. Blair, Jr. No. 929,277; July 27; Sp. p. 5350; Gaz. vol. 144; p. 942.
- Furnaces, Smoke-consuming attachment for. W. P. Choitz. No. 941,496; Nov. 30; Sp. p. 6730; Gaz. vol. 148; p. 1140.
- Furnaces, Stirring and conveying device for. U. Wedge. No. 927,389; July 6; Sp. p. 1371; Gaz. vol. 144; p. 228.
- Furnaces, Stock-distributor for blast-. J. M. Roe. No. 926,357; June 29; Sp. p. 6848; Gaz. vol. 143; p. 1205.
- Furnaces, Water-cooled electrocarbon connection for electric. C. A. Duncan. No. 915,668; Mar. 16; Sp. p. 4167; Gaz. vol. 140; p. 718.
- Furniture. F. P. Grode. No. 911,233; Feb. 2; Sp. p. 418; Gaz. vol. 139; p. 72.
- Furniture. J. Baumgartner. No. 911,934; Feb. 9; Sp. p. 1778; Gaz. vol. 139; p. 327.
- Furniture. H. J. Montgomery. No. 919,201; Apr. 20; Sp. p. 4618; Gaz. vol. 141; p. 806.
- Furniture. F. J. Hanlon. No. 929,302; July 27; Sp. p. 5408; Gaz. vol. 144; p. 952.
- Furniture, Adjustable. E. G. Watkins. No. 914,538; Mar. 9; Sp. p. 1867; Gaz. vol. 140; p. 317.
- Furniture and the like, Hook-lock for. R. P. Maydl. No. 924,912; June 15; Sp. p. 3904; Gaz. vol. 143; p. 665.
- Furniture, Article of. E. Werner. No. 915,002; Mar. 9; Sp. p. 2768; Gaz. vol. 140; p. 468.
- Furniture, Article of. F. X. Fallar. No. 923,344; June 1; Sp. p. 541; Gaz. vol. 143; p. 78.
- Furniture, Combination. N. J. Cote. No. 921,952; May 18; Sp. p. 3838; Gaz. vol. 142; p. 672.
- Furniture, Convertible. F. H. Henning. No. 931,304; Aug. 17; Sp. p. 3571; Gaz. vol. 145; p. 616.
- Furniture-coverings, Attachment for holding. M. Douglas. No. 936,225; Oct. 5; Sp. p. 1292; Gaz. vol. 147; p. 197.
- Furniture, Folding. W. Rabich. No. 909,820; Jan. 12; Sp. p. 2788; Gaz. vol. 138; p. 491.
- Furniture, Folding. E. M. Stannard. No. 921,301; May 11; Sp. p. 2464; Gaz. vol. 142; p. 429.
- Furniture, Hollow sheet-metal. F. B. Burns. No. 909,540; Jan. 12; Sp. p. 2236; Gaz. vol. 138; p. 397.
- Furniture-joint. P. G. Abrams. No. 943,211; Dec. 14; Sp. p. 2535; Gaz. vol. 149; p. 430.
- Furniture-joint for wooden structures. A. N. Webb. No. 909,720; Jan. 12; Sp. p. 2603; Gaz. vol. 138; p. 460.
- Furniture, Knockdown. P. Morrison. No. 918,352; Apr. 13; Sp. p. 2820; Gaz. vol. 141; p. 499.
- Furniture, Knockdown. A. G. Seydewitz. No. 919,257; Apr. 20; Sp. p. 4910; Gaz. vol. 141; p. 824.
- Furniture, Knockdown sectional. L. Faust. No. 917,725; Apr. 6; Sp. p. 1487; Gaz. vol. 141; p. 260.
- Furniture leg and apron. M. S. Goldsmith, W. Rees, and R. O. Wheeler. No. 909,887; Jan. 19; Sp. p. 2930; Gaz. vol. 138; p. 545.
- Furniture-leg fastening. E. Werner. No. 920,590; May 4; Sp. p. 843; Gaz. vol. 142; p. 136.
- Furniture, &c., Manufacturing material for making articles of. H. B. Morris. No. 928,266; July 20; Sp. p. 3265; Gaz. vol. 144; p. 580.
- Furniture, &c., Material for making articles of. H. B. Morris. No. 926,996; July 6; Sp. p. 595; Gaz. vol. 144; p. 98.
- Furniture-polish and producing same. G. Elkeles and E. Klie. No. 921,382; May 11; Sp. p. 2660; Gaz. vol. 142; p. 457.
- Furniture, School. W. Redmond. No. 912,413; Feb. 16; Sp. p. 2870; Gaz. vol. 139; p. 521.
- Furniture, School. F. F. Kohler. No. 944,445; Dec. 28; Sp. p. 5174; Gaz. vol. 149; p. 908.
- Furniture-structure lock-clamp, Knockdown-. W. C. Dolcater. No. 909,561; Jan. 12; Sp. p. 2283; Gaz. vol. 138; p. 404.
- Furniture-supporting foot. R. Clark. No. 918,009; Apr. 13; Sp. p. 2138; Gaz. vol. 141; p. 385.
- Furniture, Take-down article of. J. M. Horton. No. 924,353; June 8; Sp. p. 2741; Gaz. vol. 143; p. 447.
- Furniture together, Means for securing parts of. P. Sciotte. No. 918,209; Apr. 13; Sp. p. 2539; Gaz. vol. 141; p. 452.
- Furring, Metallic. A. Fontaine. No. 923,423; June 1; Sp. p. 703; Gaz. vol. 143; p. 104.
- Furring-strip. F. E. Sagendorph. No. 939,749; Nov. 9; Sp. p. 2875; Gaz. vol. 148; p. 474.
- Furrow-opener. L. T. Rasmussen. No. 942,281; Dec. 7; Sp. p. 548; Gaz. vol. 149; p. 85.
- Furrow-opener. L. T. Rasmussen. No. 942,282; Dec. 7; Sp. p. 549; Gaz. vol. 149; p. 86.
- Furrow-opener. L. T. Rasmussen. No. 942,283; Dec. 7; Sp. p. 551; Gaz. vol. 149; p. 86.
- Furrow-opening attachment. O. F. Orndoff. No. 914,450; Mar. 9; Sp. p. 1684; Gaz. vol. 140; p. 288.
- Furs, Joining. R. Theuerkauf. No. 931,235; Aug. 17; Sp. p. 3412; Gaz. vol. 145; p. 592.
- Fuse. H. E. Ellsworth. No. 920,118; May 4; Sp. p. 63; Gaz. vol. 142; p. 8.
- Fuse. L. and J. Schulman. No. 922,343; May 18; Sp. p. 4600; Gaz. vol. 142; p. 799.
- Fuse. F. G. Jones. No. 941,020; Nov. 23; Sp. p. 5695; Gaz. vol. 148; p. 961.
- Fuse-adjusting device. R. H. Quisling. No. 922,813; May 25; Sp. p. 5597; Gaz. vol. 142; p. 982.
- Fuse-adjusting device. W. Schwartz and U. Wilck. No. 932,182; Aug. 24; Sp. p. 5433; Gaz. vol. 145; p. 926.
- Fuse-adjusting device. W. Schwartz and U. Wilck. No. 944,466; Dec. 28; Sp. p. 5228; Gaz. vol. 149; p. 915.
- Fuse-adjusting machine. W. Schwartz. No. 932,181; Aug. 24; Sp. p. 5429; Gaz. vol. 145; p. 926.
- Fuse-adjusting machine. W. Schwartz. No. 943,474; Dec. 14; Sp. p. 3093; Gaz. vol. 149; p. 521.
- Fuse and fuse-block, Portable. G. A. Drucker. No. 909,165; Jan. 12; Sp. p. 1519; Gaz. vol. 138; p. 275.
- Fuse and switch box, Combined. W. R. Vanaman. No. 923,466; June 1; Sp. p. 795; Gaz. vol. 143; p. 118.
- Fuse, Automatic self-indicating. F. B. Cook. No. 942,248; Dec. 7; Sp. p. 473; Gaz. vol. 149; p. 73.
- Fuse-block, Automatic. C. O. Prowse. No. 913,913; Mar. 2; Sp. p. 526; Gaz. vol. 140; p. 85.
- Fuse-box. H. W. Sheehy. No. 924,844; June 15; Sp. p. 3758; Gaz. vol. 143; p. 643.
- Fuse-box. E. Sherwood. No. 929,506; July 27; Sp. p. 5795; Gaz. vol. 144; p. 1017.
- Fuse box, Electric. T. E. Murray. No. 913,754; Mar. 2; Sp. p. 165; Gaz. vol. 140; p. 28.
- Fuse box, Electric. T. E. Murray. No. 926,433; June 29; Sp. p. 6987; Gaz. vol. 143; p. 1231.
- Fuse-box locking attachment. W. R. Vanaman. No. 934,950; Sept. 21; Sp. p. 3969; Gaz. vol. 146; p. 689.
- Fuse case, Electric. T. E. Murray. No. 919,744; Apr. 27; Sp. p. 5963; Gaz. vol. 141; p. 1024.
- Fuse case, Electric. T. E. Murray. No. 924,093; June 8; Sp. p. 2142; Gaz. vol. 143; p. 358.
- Fuse case, Electric. T. E. Murray. No. 928,998; July 27; Sp. p. 4749; Gaz. vol. 144; p. 850.
- Fuse, Double-acting. J. Harlé. No. 932,701; Aug. 31; Sp. p. 6512; Gaz. vol. 145; p. 1122.
- Fuse, Electric. T. E. Murray. No. 943,698; Dec. 21; Sp. p. 3601; Gaz. vol. 149; p. 626.
- Fuse, Electric safety-. T. E. Murray. No. 920,613; May 4; Sp. p. 1050; Gaz. vol. 142; p. 171.
- Fuse, Electric time-. C. D. McPhee and J. Gillies. No. 939,155; Nov. 2; Sp. p. 1511; Gaz. vol. 148; p. 245.
- Fuse, Electrical. W. H. Tidmarsh. No. 918,223; Apr. 13; Sp. p. 2564; Gaz. vol. 141; p. 457.
- Fuse, Electrical. A. G. Fay. No. 936,227; Oct. 5; Sp. p. 1295; Gaz. vol. 147; p. 198.
- Fuse for electric circuits, Renewable. J. A. Volk, Jr. No. 924,860; June 15; Sp. p. 3802; Gaz. vol. 143; p. 649.
- Fuse for projectiles, Safety percussion-. D. J. Cartwright. No. 935,188; Sept. 28; Sp. p. 4450; Gaz. vol. 146; p. 793.
- Fuse-holder. J. E. Graybill. No. 938,477; Nov. 2; Sp. p. 48; Gaz. vol. 148; p. 10.
- Fuse, Impact-. K. Wieser. No. 911,792; Feb. 9; Sp. p. 1505; Gaz. vol. 139; p. 281.
- Fuse, Impact-. A. Wratzke. No. 913,343; Feb. 23; Sp. p. 4783; Gaz. vol. 139; p. 857.
- Fuse, Impact-. F. Rausenberger. No. 932,173; Aug. 24; Sp. p. 5411; Gaz. vol. 145; p. 923.
- Fuse, Inclosed. P. S. Keefer. No. 916,167; Mar. 23; Sp. p. 5119; Gaz. vol. 140; p. 906.
- Fuse, Inclosed. F. P. Poole. No. 931,476; Aug. 17; Sp. p. 3911; Gaz. vol. 145; p. 674.
- Fuse, Inclosed. F. P. Poole. No. 931,477; Aug. 17; Sp. p. 3912; Gaz. vol. 145; p. 675.
- Fuse, Inclosed. F. P. Poole. No. 931,478; Aug. 17; Sp. p. 3912; Gaz. vol. 145; p. 675.
- Fuse, Indicating-. R. C. Cole. No. 908,646; Jan. 5; Sp. p. 468; Gaz. vol. 138; p. 73.
- Fuse-lighter. C. C. Myrick. No. 928,685; July 20; Sp. p. 4129; Gaz. vol. 144; p. 719.
- Fuse-making machine. C. E. Schmunk. No. 942,938; Dec. 14; Sp. p. 1942; Gaz. vol. 149; p. 338.
- Fuse, Manufacture of. H. E. Ellsworth. No. 920,119; May 4; Sp. p. 65; Gaz. vol. 142; p. 8.
- Fuse-mounting. J. J. Lyng. No. 911,055; Feb. 2; Sp. p. 64; Gaz. vol. 139; p. 13.
- Fuse-mounting for electric cut-outs. W. J. Patnode. No. 937,326; Oct. 19; Sp. p. 3584; Gaz. vol. 147; p. 620.
- Fuse, Percussion-. C. Puff. No. 910,575; Jan. 26; Sp. p. 4398; Gaz. vol. 138; p. 806.
- Fuse, Plug-. H. U. Badeau and F. P. Poole. No. 920,005; Apr. 27; Sp. p. 6501; Gaz. vol. 141; p. 1110.
- Fuse-plug. G. W. Goodridge. No. 923,642; June 1; Sp. p. 1179; Gaz. vol. 143; p. 182.
- Fuse-plug. A. Weber, Jr. No. 925,539; June 22; Sp. p. 5115; Gaz. vol. 143; p. 901.
- Fuse, Projectile-. K. Völler. No. 920,793; May 4; Sp. p. 1420; Gaz. vol. 142; p. 229.
- Fuse-receptacle. B. P. Rowe and S. M. Kintner. No. 933,787; Sept. 14; Sp. p. 1681; Gaz. vol. 146; p. 278.
- Fuse, Safety-. G. W. Hart and F. D. Reynolds. No. 914,043; Mar. 2; Sp. p. 843; Gaz. vol. 140; p. 130.
- Fuse, Safety-. W. Menzel. No. 930,675; Aug. 10; Sp. p. 2160; Gaz. vol. 145; p. 377.
- Fuse, Submerged. C. E. Eveleth. No. 919,563; Apr. 27; Sp. p. 5604; Gaz. vol. 141; p. 963.
- Fuse, Time-. W. Schwartz and P. Koener. No. 911,845; Feb. 9; Sp. p. 1602; Gaz. vol. 139; p. 297.



*Alphabetical list of inventions—Continued.*

- Fuse with double action. J. Harlé. No. 927,968; July 13; Sp. p. 2643; Gaz. vol. 144; p. 450.
- Fuses, Adaptable terminal contact for safety-. V. F. Morgan. No. 930,606; Aug. 10; Sp. p. 2026; Gaz. vol. 145; p. 355.
- Fuses, Igniting appliance for safety-. R. Weyel and H. Jäger. No. 932,077; Aug. 24; Sp. p. 5225; Gaz. vol. 145; p. 891.
- Fuses of projectiles, Safety device for the. E. Schneider. No. 939,447; Nov. 9; Sp. p. 2223; Gaz. vol. 148; p. 370.
- Fused and solid terminal, Reversible. R. H. Conway and H. E. Bisbing. No. 935,838; Oct. 5; Sp. p. 507; Gaz. vol. 147; p. 73.
- Fusee-cap. F. Dutcher. No. 929,409; July 27; Sp. p. 5631; Gaz. vol. 144; p. 987.
- Fusee-cap. F. Dutcher. No. 934,897; Sept. 21; Sp. p. 3859; Gaz. vol. 146; p. 670.
- Gage: See Adjustable gage; Belt-perforating gage; Bevel-gage; Bit-gage; Board-gage; Boiler-tube gage; Caliper-gage; Carpenter's gage; Depth-gage; Dressmaker's gage; Fluid-gage; Foot-gage; Form-gage; Height-gage; Hinging-gage; Level-indicating gage; Liquid-gage; Loss-of-head and rate-of-flow gage; Marking-gage; Measuring-gage; Micrometer-gage; Miter-gage; Press automatic register-gage; Pressure-gage; Printing-gage; Printing-press feed-gage; Printing-press registering-gage; Rain-gage; Raker-gage; Recording-gage; Ruling-machine gage; Saw-gage; Saw-tooth gage; Sewing-machine gage; Shade-adjuster gage; Shingling-gage; Skirt-gage; Skirt-length gage; Skiving-machine gage; Speed-gage; Steam-pressure gage; Superheat-gage; Surface-gage; Tire pressure-gage; Track-gage; Turbine-gage; Vacuum-gage; Water-gage.
- Gage. J. G. Regelson. No. 915,219; Mar. 16; Sp. p. 3247; Gaz. vol. 140; p. 567.
- Gage. E. R. Seward. No. 919,477; Apr. 27; Sp. p. 5424; Gaz. vol. 141; p. 934.
- Gage. E. W. Simmons. No. 919,786; Apr. 27; Sp. p. 6040; Gaz. vol. 141; p. 1038.
- Gage. S. G. Ryder. No. 926,079; June 22; Sp. p. 6262; Gaz. vol. 143; p. 1079.
- Gage. E. D. Keeter. No. 933,309; Sept. 7; Sp. p. 625; Gaz. vol. 146; p. 97.
- Gage. R. Atkinson. No. 941,843; Nov. 30; Sp. p. 7485; Gaz. vol. 148; p. 1258.
- Gage. W. M. Jones. No. 944,619; Dec. 28; Sp. p. 5588; Gaz. vol. 149; p. 970.
- Gage and bevel-square, Combination. C. E. and W. H. Krueger. No. 924,675; June 15; Sp. p. 3404; Gaz. vol. 143; p. 586.
- Gage and jointer, Combined raker. A. Champeau. No. 916,670; Mar. 30; Sp. p. 6122; Gaz. vol. 140; p. 1097.
- Gage and marking device. A. Veitch. No. 927,903; July 13; Sp. p. 2511; Gaz. vol. 144; p. 428.
- Gage and measuring instrument. J. R. Coe. No. 930,330; Aug. 3; Sp. p. 1425; Gaz. vol. 145; p. 236.
- Gage for ruling-machines and the like. O. E. Simon. No. 924,846; June 15; Sp. p. 3762; Gaz. vol. 143; p. 644.
- Gage-glass. C. L. Dickerson. No. 940,860; Nov. 23; Sp. p. 5353; Gaz. vol. 148; p. 907.
- Gage-head. J. W. Beard. No. 928,422; July 20; Sp. p. 3582; Gaz. vol. 144; p. 633.
- Gage-knife. F. Skabroud. No. 929,171; July 27; Sp. p. 5112; Gaz. vol. 144; p. 908.
- Gage-movement frame. F. C. Blanchard and E. B. Crocker. No. 940,379; Nov. 16; Sp. p. 4318; Gaz. vol. 148; p. 723.
- Gage, Multiple. G. O. Hammer. No. 913,641; Feb. 23; Sp. p. 5440; Gaz. vol. 139; p. 958.
- Gage-roll support. C. E. Marsh. No. 936,647; Oct. 12; Sp. p. 2215; Gaz. vol. 147; p. 367.
- Gage-wheel and colter, Combined. H. H. Dreyer. No. 922,405; May 18; Sp. p. 4739; Gaz. vol. 142; p. 821.
- Gaging device locking mechanism. G. O. Hammer. No. 917,759; Apr. 13; Sp. p. 1582; Gaz. vol. 141; p. 298.
- Gaining-machine. C. Peterman. No. 944,047; Dec. 21; Sp. p. 4332; Gaz. vol. 149; p. 746.
- Gaiter. H. Cohen. No. 912,283; Feb. 16; Sp. p. 2590; Gaz. vol. 139; p. 477.
- Galley-stop. W. D. Rent. No. 910,150; Jan. 19; Sp. p. 3454; Gaz. vol. 138; p. 633.
- Galvanic battery. B. Jonas. No. 913,824; Mar. 2; Sp. p. 300; Gaz. vol. 140; p. 52.
- Galvanic cell. W. L. Heim. No. 919,010; Apr. 20; Sp. p. 4264; Gaz. vol. 141; p. 745.
- Galvanic cell. H. P. R. L. Pörseke. No. 919,457; Apr. 27; Sp. p. 5363; Gaz. vol. 141; p. 926.
- Galvanic cell, Carbon-consuming. E. W. Jungner. No. 919,022; Apr. 20; Sp. p. 4287; Gaz. vol. 141; p. 749.
- Galvanizing. G. L. Patterson, T. L. Mornes, and C. H. Zieme. No. 928,398; July 20; Sp. p. 3539; Gaz. vol. 144; p. 625.
- Galvanizing apparatus. A. Niedringhaus. No. 943,315; Dec. 14; Sp. p. 2756; Gaz. vol. 149; p. 466.
- Galvanizing-machine. H. A. Hall and J. Hercker. No. 914,827; Mar. 9; Sp. p. 2465; Gaz. vol. 140; p. 412.
- Gambrel, Hog-. C. G. Coultas. No. 940,434; Nov. 16; Sp. p. 4431; Gaz. vol. 148; p. 741.
- Gambrel-hook. J. L. Smith. No. 911,079; Feb. 2; Sp. p. 111; Gaz. vol. 139; p. 20.
- Gambrel-stick. G. H. Poist. No. 916,010; Mar. 23; Sp. p. 4830; Gaz. vol. 140; p. 854.
- Game. G. H. Parker. No. 922,717; May 25; Sp. p. 5396; Gaz. vol. 142; p. 951.
- Game. B. B. Bennett. No. 927,631; July 13; Sp. p. 1931; Gaz. vol. 144; p. 338.
- Game. H. E. Hire. No. 939,024; Nov. 2; Sp. p. 1236; Gaz. vol. 148; p. 198.
- Game. P. V. Ericson. No. 943,343; Dec. 14; Sp. p. 2826; Gaz. vol. 149; p. 475.
- Game and recreation apparatus, Race. A. G. Macculloch. No. 918,343; Apr. 13; Sp. p. 2803; Gaz. vol. 141; p. 496.
- Game apparatus. F. R. Cornwall. No. 908,752 Jan. 5; Sp. p. 685; Gaz. vol. 138; p. 107.
- Game apparatus. W. H. Maynard. No. 908,792; Jan. 5; Sp. p. 753; Gaz. vol. 138; p. 118.
- Game apparatus. I. J. J. Bruchert. No. 908,946; Jan. 5; Sp. p. 1048; Gaz. vol. 138; p. 169.
- Game apparatus. J. Baust. No. 909,520; Jan. 12; Sp. p. 2202; Gaz. vol. 138; p. 391.
- Game apparatus. D. H. Talbert. No. 909,708; Jan. 12; Sp. p. 2568; Gaz. vol. 138; p. 455.
- Game apparatus. W. L. Fross. No. 909,779; Jan. 12; Sp. p. 2706; Gaz. vol. 138; p. 478.
- Game apparatus. G. W. L. Edwards. No. 912,547; Feb. 16; Sp. p. 3159; Gaz. vol. 139; p. 566.
- Game apparatus. J. Graves. No. 912,953; Feb. 16; Sp. p. 3977; Gaz. vol. 139; p. 700.
- Game apparatus. T. J. Glenn. No. 914,655; Mar. 9; Sp. p. 2087; Gaz. vol. 140; p. 355.
- Game apparatus. W. H. Levey. No. 915,450; Mar. 16; Sp. p. 3702; Gaz. vol. 140; p. 645.
- Game apparatus. D. H. Talbert. No. 916,056; Mar. 23; Sp. p. 4913; Gaz. vol. 140; p. 870.
- Game apparatus. F. H. Cook. No. 917,254; Apr. 6; Sp. p. 604; Gaz. vol. 141; p. 104.
- Game apparatus. E. C. Hinkle. No. 920,462; May 4; Sp. p. 749; Gaz. vol. 142; p. 120.
- Game apparatus. G. H. Grounds. No. 923,830; June 8; Sp. p. 1661; Gaz. vol. 143; p. 275.
- Game apparatus. A. A. Lehr. No. 923,863; June 8; Sp. p. 1717; Gaz. vol. 143; p. 286.
- Game apparatus. R. Carter. No. 924,038; June 8; Sp. p. 2048; Gaz. vol. 143; p. 340.
- Game apparatus. C. L. Tuthill and C. C. Van Wormer. No. 925,534; June 22; Sp. p. 5105; Gaz. vol. 143; p. 899.
- Game apparatus. S. Bristow. No. 927,106; July 6; Sp. p. 858; Gaz. vol. 144; p. 137.
- Game apparatus. B. P. Hanft. No. 930,176; Aug. 3; Sp. p. 1166; Gaz. vol. 145; p. 189.
- Game apparatus. W. W. Slocum. No. 931,020; Aug. 10; Sp. p. 2919; Gaz. vol. 145; p. 490.
- Game apparatus. A. A. West. No. 932,206; Aug. 24; Sp. p. 5483; Gaz. vol. 145; p. 934.
- Game apparatus. W. H. Cornford. No. 932,846; Aug. 31; Sp. p. 6807; Gaz. vol. 145; p. 1168.
- Game apparatus. R. L. Cates. No. 933,289; Sept. 7; Sp. p. 588; Gaz. vol. 146; p. 90.
- Game apparatus. W. H. Ell. No. 934,055; Sept. 14; Sp. p. 2200; Gaz. vol. 146; p. 364.
- Game apparatus. D. A. Jackson. No. 934,179; Sept. 14; Sp. p. 2468; Gaz. vol. 146; p. 407.
- Game apparatus. F. Dando. No. 935,469; Sept. 28; Sp. p. 5003; Gaz. vol. 146; p. 884.
- Game apparatus. T. S. Campbell. No. 935,585; Sept. 28; Sp. p. 5269; Gaz. vol. 146; p. 924.
- Game apparatus. J. Grundy. No. 935,755; Oct. 5; Sp. p. 279; Gaz. vol. 147; p. 45.
- Game apparatus. S. W. Taylor. No. 936,057; Oct. 5; Sp. p. 970; Gaz. vol. 147; p. 145.
- Game apparatus. W. Kruse. No. 936,785; Oct. 12; Sp. p. 2480; Gaz. vol. 147; p. 413.
- Game apparatus. J. Stern. (Reissue.) No. 13,025; Oct. 12; Sp. p. 2987; Gaz. vol. 147; p. 496.
- Game apparatus. L. T. Young. No. 939,580; Nov. 9; Sp. p. 2509; Gaz. vol. 148; p. 414.
- Game apparatus. A. B. Clemens. No. 940,855; Nov. 23; Sp. p. 5346; Gaz. vol. 148; p. 906.
- Game apparatus. B. Hamilton. No. 941,194; Nov. 23; Sp. p. 6077; Gaz. vol. 148; p. 1020.
- Game apparatus. W. B. Beckley. No. 941,488; Nov. 30; Sp. p. 6715; Gaz. vol. 148; p. 1138.
- Game apparatus. A. De Meurisse. No. 941,793; Nov. 30; Sp. p. 7353; Gaz. vol. 148; p. 1239.
- Game apparatus. W. J. Rigney. No. 942,103; Dec. 7; Sp. p. 151; Gaz. vol. 149; p. 24.
- Game apparatus. W. Stevenson. No. 942,757; Dec. 7; Sp. p. 1494; Gaz. vol. 149; p. 246.
- Game apparatus. Z. D. Underhill. No. 942,984; Dec. 14; Sp. p. 2044; Gaz. vol. 149; p. 354.
- Game apparatus. M. Maris. No. 943,435; Dec. 14; Sp. p. 3003; Gaz. vol. 149; p. 507.
- Game apparatus. H. O. Schreiber and C. A. Geisz. No. 943,472; Dec. 14; Sp. p. 3089; Gaz. vol. 149; p. 520.
- Game apparatus, Base-ball-. E. C. S. Parker. No. 915,108; Mar. 16; Sp. p. 3011; Gaz. vol. 140; p. 531.
- Game apparatus, Base-ball-. I. E. Eberman. No. 930,164; Aug. 3; Sp. p. 1142; Gaz. vol. 145; p. 185.
- Game apparatus, Base-ball-. J. W. E. Dean. No. 942,619; Dec. 7; Sp. p. 1224; Gaz. vol. 149; p. 200.
- Game apparatus, Card-. B. A. Staley. No. 927,183; July 6; Sp. p. 1002; Gaz. vol. 144; p. 162.
- Game apparatus, Coin-controlled. R. F. Downey. No. 912,654; Feb. 16; Sp. p. 3360; Gaz. vol. 139; p. 604.
- Game, Astronomical. E. L. Newsome. No. 944,631; Dec. 28; Sp. p. 5609; Gaz. vol. 149; p. 973.
- Game-board. A. A. Stocker. No. 910,242; Jan. 19; Sp. p. 3670; Gaz. vol. 138; p. 667.
- Game-board. W. E. Uhrland. No. 918,799; Apr. 20; Sp. p. 3806; Gaz. vol. 141; p. 675.
- Game-board. A. T. Flint and E. Fanshaw. No. 919,148; Apr. 20; Sp. p. 4520; Gaz. vol. 141; p. 790.

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- Game-board. J. Conolly. No. 921,366; May 11; Sp. p. 2631; Gaz. vol. 142; p. 452.  
 Game-board. D. W. Heydon. No. 922,897; May 25; Sp. p. 5789; Gaz. vol. 142; p. 1009.  
 Game-board. M. Spillman, (now by marriage M. Kalesse.) No. 925,142; June 15; Sp. p. 4360; Gaz. vol. 143; p. 744.  
 Game-board. W. Brown. No. 930,151; Aug. 3; Sp. p. 1116; Gaz. vol. 145; p. 181.  
 Game-board. R. A. Hallock. No. 937,796; Oct. 26; Sp. p. 4587; Gaz. vol. 147; p. 795.  
 Game-board. C. Tarron. No. 938,180; Oct. 26; Sp. p. 5414; Gaz. vol. 147; p. 924.  
 Game-board. F. G. Rempe. No. 942,748; Dec. 7; Sp. p. 1479; Gaz. vol. 149; p. 242.  
 Game-board, Base-ball. F. De Rocher. No. 944,504; Dec. 28; Sp. p. 5330; Gaz. vol. 149; p. 929.  
 Game device. W. G. Seckinger. No. 917,164; Apr. 6; Sp. p. 415; Gaz. vol. 141; p. 72.  
 Game device. R. Wohlmeier. No. 930,711; Aug. 10; Sp. p. 2237; Gaz. vol. 145; p. 389.  
 Game device. C. A. Hotchkiss. No. 934,175; Sept. 14; Sp. p. 2463; Gaz. vol. 146; p. 405.  
 Game-element carrier, Coin-controlled. R. F. Pendleton. No. 939,306; Nov. 9; Sp. p. 1894; Gaz. vol. 148; p. 323.  
 Game-piece. E. W. Ashenden. No. 943,058; Dec. 14; Sp. p. 2244; Gaz. vol. 149; p. 380.  
 Game-puzzle. A. Henderson. No. 931,923; Aug. 24; Sp. p. 4891; Gaz. vol. 145; p. 839.  
 Game register, Pool and billiard. O. Johnson. No. 914,420; Mar. 9; Sp. p. 1631; Gaz. vol. 140; p. 278.  
 Game-schedule. C. H. Lovell. No. 942,178; Dec. 7; Sp. p. 329; Gaz. vol. 149; p. 50.  
 Game-table. J. M. Harrison. No. 917,060; Apr. 6; Sp. p. 197; Gaz. vol. 141; p. 37.  
 Game-table. L. H. Eilers. No. 921,381; May 11; Sp. p. 2659; Gaz. vol. 142; p. 457.  
 Game-table. J. L. Patton. No. 931,470; Aug. 17; Sp. p. 3899; Gaz. vol. 145; p. 673.  
 Games, Annunciator for checkers or similar. A. Nelson. No. 927,583; July 13; Sp. p. 1801; Gaz. vol. 144; p. 321.  
 Gang-edger. D. C. Leonard. No. 933,569; Sept. 7; Sp. p. 1242; Gaz. vol. 146; p. 183.  
 Gang-edger. U. Anderson. No. 941,751; Nov. 30; Sp. p. 7262; Gaz. vol. 148; p. 1225.  
 Gang-saw-mill carriage and steam-feed pressure-roll structure. W. L. Miles. No. 914,154; Mar. 2; Sp. p. 1059; Gaz. vol. 140; p. 168.  
 Gapped wheel. F. Wagner. No. 923,467; June 1; Sp. p. 797; Gaz. vol. 143; p. 119.  
 Garbage and like can. H. C. Buchmaier. No. 931,266; Aug. 17; Sp. p. 3480; Gaz. vol. 145; p. 603.  
 Garbage and rendering apparatus. C. S. Wheelwright. No. 925,970; June 22; Sp. p. 6031; Gaz. vol. 143; p. 1042.  
 Garbage-burner. J. A. Burwell. No. 911,375; Feb. 2; Sp. p. 687; Gaz. vol. 139; p. 118.  
 Garbage-burner and water-heater, Combined. J. J. Dubé. No. 937,145; Oct. 19; Sp. p. 3213; Gaz. vol. 147; p. 562.  
 Garbage-can. M. T. Taylor. No. 926,684; June 29; Sp. p. 7450; Gaz. vol. 143; p. 1313.  
 Garbage-can. I. Gluckman. No. 926,864; July 6; Sp. p. 337; Gaz. vol. 144; p. 64.  
 Garbage-can and rubbish-burner, Combined. E. D. Smith. No. 940,082; Nov. 16; Sp. p. 3630; Gaz. vol. 148; p. 619.  
 Garbage disposal apparatus. A. E. Dumas. No. 924,152; June 8; Sp. p. 2307; Gaz. vol. 143; p. 378.  
 Garbage, Extracting grease and oil from. C. S. Wheelwright. No. 925,971; June 22; Sp. p. 6034; Gaz. vol. 143; p. 1043.  
 Garbage or ash receptacle. W. B. Pilkington and W. A. Pauly. No. 917,126; Apr. 6; Sp. p. 344; Gaz. vol. 141; p. 61.  
 Garbage or refuse receptacle. A. E. Lyman. No. 943,089; Dec. 14; Sp. p. 2299; Gaz. vol. 149; p. 390.  
 Garbage-receptacle. P. W. Nicola. No. 913,040; Feb. 23; Sp. p. 4169; Gaz. vol. 139; p. 755.  
 Garbage-receptacle. J. M. Thinnens. No. 914,528; Mar. 9; Sp. p. 1842; Gaz. vol. 140; p. 314.  
 Garbage-receptacle. G. A. Mauller. No. 935,800; Oct. 5; Sp. p. 411; Gaz. vol. 147; p. 61.  
 Garbage-receptacle. M. Carlucci. No. 936,702; Oct. 12; Sp. p. 2321; Gaz. vol. 147; p. 385.  
 Garbage-receptacle. M. Cullen. No. 937,772; Oct. 26; Sp. p. 4539; Gaz. vol. 147; p. 786.  
 Garbage-treating apparatus. A. J. Morse. No. 910,407; Jan. 19; Sp. p. 4044; Gaz. vol. 138; p. 725.  
 Garbanzon hulling and separating machine. D. E. J. Brockett and F. Garver. No. 942,053; Dec. 7; Sp. p. 21; Gaz. vol. 149; p. 6.  
 Garden implement. W. C. Doidge. No. 935,473; Sept. 28; Sp. p. 5010; Gaz. vol. 146; p. 885.  
 Garden-tool. H. M. Morrill. No. 937,219; Oct. 19; Sp. p. 3371; Gaz. vol. 147; p. 585.  
 Gardening implement. J. S. Durning. No. 920,933; May 11; Sp. p. 1725; Gaz. vol. 142; p. 305.  
 Garment. G. A. Baumann. No. 910,485; Jan. 26; Sp. p. 4214; Gaz. vol. 138; p. 776.  
 Garment. S. Weinschenk. No. 925,146; June 15; Sp. p. 4366; Gaz. vol. 143; p. 745.  
 Garment. G. M. Gray. No. 927,038; July 6; Sp. p. 714; Gaz. vol. 144; p. 113.  
 Garment. W. S. Barker. No. 931,248; Aug. 17; Sp. p. 3436; Gaz. vol. 145; p. 596.  
 Garment. H. A. McDonald. No. 933,099; Sept. 7; Sp. p. 133; Gaz. vol. 146; p. 22.  
 Garment. C. T. Small and W. N. Shelton. No. 939,176; Nov. 2; Sp. p. 1554; Gaz. vol. 148; p. 252.  
 Garment. P. B. Sherman. No. 939,871; Nov. 9; Sp. p. 3120; Gaz. vol. 148; p. 515.  
 Garment. M. Lang. No. 942,144; Dec. 7; Sp. p. 260; Gaz. vol. 149; p. 39.  
 Garment, Adjustable. W. A. Diehlenn. No. 920,115; May 4; Sp. p. 58; Gaz. vol. 142; p. 7.  
 Garment, Adjustable. W. A. Diehlenn. No. 942,889; Dec. 14; Sp. p. 1824; Gaz. vol. 149; p. 321.  
 Garment, adjuster and fastener, Combined. W. W. Lowrie. No. 910,554; Jan. 26; Sp. p. 4349; Gaz. vol. 138; p. 798.  
 Garment attachment. C. Linborg. No. 925,360; June 15; Sp. p. 4759; Gaz. vol. 143; p. 813.  
 Garment-band, Adjustable. C. E. Baker. No. 912,642; Feb. 16; Sp. p. 3344; Gaz. vol. 139; p. 600.  
 Garment, Bifurcated. F. F. Lewis. No. 913,741; Mar. 2; Sp. p. 136; Gaz. vol. 140; p. 23.  
 Garment, Bifurcated. H. M. Dunlap. No. 924,751; June 15; Sp. p. 3563; Gaz. vol. 143; p. 611.  
 Garment, Bifurcated. F. F. Lewis. No. 935,159; Sept. 28; Sp. p. 4393; Gaz. vol. 146; p. 784.  
 Garment, Brassière. W. J. Reid. No. 933,265; Sept. 7; Sp. p. 541; Gaz. vol. 146; p. 82.  
 Garment, Body-. H. Magnus. No. 919,740; Apr. 27; Sp. p. 5956; Gaz. vol. 141; p. 1023.  
 Garment-carrier. O. Rangnow. No. 936,811; Oct. 12; Sp. p. 2525; Gaz. vol. 147; p. 421.  
 Garment-clasp. H. H. Taylor. No. 910,879; Jan. 26; Sp. p. 5002; Gaz. vol. 138; p. 902.  
 Garment-clasp. F. A. Traver. No. 911,763; Feb. 9; Sp. p. 1486; Gaz. vol. 139; p. 278.  
 Garment-clasp. M. D. Coffey and T. C. Blayne. No. 918,010; Apr. 13; Sp. p. 2139; Gaz. vol. 141; p. 385.  
 Garment-clasp. J. C. Stukenborg. No. 923,600; June 1; Sp. p. 1101; Gaz. vol. 143; p. 168.  
 Garment, Combination-. E. J. Quigley. No. 908,802; Jan. 5; Sp. p. 771; Gaz. vol. 138; p. 121.  
 Garment, Combination body-. C. H. Osborn. No. 930,081; Aug. 3; Sp. p. 961; Gaz. vol. 145; p. 156.  
 Garment, Combination body-. C. H. Osborn. No. 932,568; Aug. 31; Sp. p. 6217; Gaz. vol. 145; p. 1077.  
 Garment-display device. W. Mehler. No. 912,145; Feb. 9; Sp. p. 2282; Gaz. vol. 139; p. 395.  
 Garment-facing-strip. J. I. McDonald. No. 934,204; Sept. 14; Sp. p. 2516; Gaz. vol. 146; p. 415.  
 Garment-fastener. C. A. Law. No. 908,584; Jan. 5; Sp. p. 312; Gaz. vol. 138; p. 53.  
 Garment-fastener. G. H. Maurer. No. 912,707; Feb. 16; Sp. p. 3490; Gaz. vol. 139; p. 622.  
 Garment-fastener. E. Johnson. No. 918,160; Apr. 13; Sp. p. 2431; Gaz. vol. 141; p. 436.  
 Garment-fastener. B. L. Lewis. No. 926,500; June 29; Sp. p. 7096; Gaz. vol. 143; p. 1252.  
 Garment-fastener. C. D. Smith. No. 926,614; June 29; Sp. p. 7317; Gaz. vol. 143; p. 1291.  
 Garment-fastener. C. H. Schmidt. No. 935,238; Sept. 28; Sp. p. 4551; Gaz. vol. 146; p. 810.  
 Garment-fastener. H. H. Harrison. No. 944,673; Dec. 28; Sp. p. 5689; Gaz. vol. 149; p. 987.  
 Garment fastener and supporter. H. K. Walker. No. 928,091; July 13; Sp. p. 2868; Gaz. vol. 144; p. 489.  
 Garment-fitting device. M. M. Johnson. No. 911,045; Feb. 2; Sp. p. 39; Gaz. vol. 139; p. 9.  
 Garment-fitting device. M. M. Johnson. No. 911,046; Feb. 2; Sp. p. 43; Gaz. vol. 139; p. 10.  
 Garment-hanger. A. Schlang. No. 910,420; Jan. 19; Sp. p. 4066; Gaz. vol. 138; p. 728.  
 Garment-hanger. R. C. Thomas. No. 912,047; Feb. 9; Sp. p. 2112; Gaz. vol. 139; p. 364.  
 Garment-hanger. A. E. Larson. No. 912,388; Feb. 16; Sp. p. 2819; Gaz. vol. 139; p. 513.  
 Garment-hanger. A. Wilkin. No. 921,492; May 11; Sp. p. 2872; Gaz. vol. 142; p. 494.  
 Garment-hanger. W. C. Morris. No. 922,310; May 18; Sp. p. 4538; Gaz. vol. 142; p. 789.  
 Garment-hanger. W. W. Grant. No. 924,763; June 15; Sp. p. 3589; Gaz. vol. 143; p. 616.  
 Garment-hanger. H. H. Revman and W. H. Greenleaf. No. 924,935; June 15; Sp. p. 3943; Gaz. vol. 143; p. 674.  
 Garment-hanger. J. T. Viganego. No. 928,086; July 13; Sp. p. 2862; Gaz. vol. 144; p. 488.  
 Garment-hanger. J. Nagely. No. 930,407; Aug. 10; Sp. p. 1582; Gaz. vol. 145; p. 286.  
 Garment-hanger. G. A. Willard, Jr. No. 937,400; Oct. 19; Sp. p. 3760; Gaz. vol. 147; p. 644.  
 Garment-hanger. W. F. Freeman. No. 941,510; Nov. 30; Sp. p. 6761; Gaz. vol. 148; p. 1145.  
 Garment-hanger. C. Clift. No. 943,340; Dec. 14; Sp. p. 2819; Gaz. vol. 149; p. 474.  
 Garment-hanger. J. Dove. No. 944,180; Dec. 21; Sp. p. 4009; Gaz. vol. 149; p. 791.  
 Garment-hanger and clothes-tree, &c. J. M. Hansen. No. 913,955; Mar. 2; Sp. p. 624; Gaz. vol. 140; p. 99.  
 Garment-hanger and protector. F. W. Merrill. No. 916,571; Mar. 30; Sp. p. 5935; Gaz. vol. 140; p. 1065.  
 Garment-hanger, Collapsible. I. Anderson. No. 920,240; May 4; Sp. p. 297; Gaz. vol. 142; p. 48.  
 Garment-hanger, Combination. A. A. Vanderford. No. 941,115; Nov. 23; Sp. p. 5890; Gaz. vol. 148; p. 992.  
 Garment-hanger support. F. Wolf. No. 937,497; Oct. 19; Sp. p. 3984; Gaz. vol. 147; p. 676.  
 Garment-holder. B. J. Buckingham. No. 915,737; Mar. 23; Sp. p. 4319; Gaz. vol. 140; p. 768.



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- Garment-holder. C. C. Livingston. No. 939,606; Nov. 9; Sp. p. 2575; Gaz. vol. 148; p. 423.  
 Garment holder and supporter. C. W. Lee. No. 929,096; July 27; Sp. p. 4946; Gaz. vol. 144; p. 882.  
 Garment-hook. L. A. Yeiser. No. 910,106; Jan. 19; Sp. p. 3367; Gaz. vol. 138; p. 619.  
 Garment-hook. H. Poppert. No. 918,088; Apr. 13; Sp. p. 2297; Gaz. vol. 141; p. 412.  
 Garment-hook eye. L. A. Yeiser. No. 910,764; Jan. 26; Sp. p. 4784; Gaz. vol. 138; p. 866.  
 Garment, Inner. J. W. Appleton. No. 942,159; Dec. 7; Sp. p. 287; Gaz. vol. 149; p. 44.  
 Garment, Lady's. A. W. Powell. No. 908,496; Jan. 5; Sp. p. 130; Gaz. vol. 138; p. 23.  
 Garment, Lady's. A. W. Powell. No. 940,987; Nov. 23; Sp. p. 5605; Gaz. vol. 148; p. 950.  
 Garment-marking device. E. Werner. No. 924,516; June 8; Sp. p. 3048; Gaz. vol. 143; p. 499.  
 Garment, Nether. W. P. McQuillen. No. 943,366; Dec. 14; Sp. p. 2869; Gaz. vol. 149; p. 483.  
 Garment, Padded. C. H. Dean. No. 930,741; Aug. 10; Sp. p. 2303; Gaz. vol. 145; p. 399.  
 Garment-presser. N. Nelson. No. 917,346; Apr. 6; Sp. p. 799; Gaz. vol. 141; p. 136.  
 Garment-presser. C. A. Friedrich. No. 939,408; Nov. 9; Sp. p. 2149; Gaz. vol. 148; p. 356.  
 Garment-pressing machine. G. Rowland. No. 926,291; June 29; Sp. p. 6709; Gaz. vol. 143; p. 1183.  
 Garment-pressing machine. E. Schumann and A. Frepechal. No. 927,081; July 6; Sp. p. 810; Gaz. vol. 144; p. 129.  
 Garment-protector. R. B. Madill and R. E. Mikesell. No. 932,990; Aug. 31; Sp. p. 7066; Gaz. vol. 145; p. 1215.  
 Garment-rack. F. Wolf. No. 922,991; May 25; Sp. p. 5960; Gaz. vol. 142; p. 1040.  
 Garment-rack. F. Wolf. No. 928,728; July 20; Sp. p. 4202; Gaz. vol. 144; p. 732.  
 Garment-rack. B. Harskowitz. No. 938,231; Oct. 26; Sp. p. 5514; Gaz. vol. 147; p. 942.  
 Garment-rack, Extension. B. J. Buckingham. No. 943,137; Dec. 14; Sp. p. 2393; Gaz. vol. 149; p. 407.  
 Garment-rack, Folding. A. May. No. 927,369; July 6; Sp. p. 1328; Gaz. vol. 144; p. 221.  
 Garment-receptacle. J. Leavy. No. 920,352; May 4; Sp. p. 534; Gaz. vol. 142; p. 85.  
 Garment-receptacle attachment. G. H. Whearty. No. 912,342; Feb. 16; Sp. p. 2726; Gaz. vol. 139; p. 497.  
 Garment-retainer. M. J. Lambrix. No. 929,863; Aug. 3; Sp. p. 509; Gaz. vol. 145; p. 82.  
 Garment safety secret pocket. I. Mensch. No. 913,749; Mar. 2; Sp. p. 155; Gaz. vol. 140; p. 26.  
 Garment-shoulder-pressing device. J. M. Stein. No. 922,733; May 25; Sp. p. 5421; Gaz. vol. 142; p. 956.  
 Garment-sleeve. J. G. Hochstuhl. No. 931,711; Aug. 17; Sp. p. 4412; Gaz. vol. 145; p. 748.  
 Garment-stay. J. J. Laass. No. 908,468; Jan. 5; Sp. p. 65; Gaz. vol. 138; p. 14.  
 Garment-stretcher. B. F. Kelly. No. 910,391; Jan. 19; Sp. p. 4006; Gaz. vol. 138; p. 719.  
 Garment-support. J. D. Walker. No. 915,393; Mar. 16; Sp. p. 3587; Gaz. vol. 140; p. 624.  
 Garment-support, Movable. L. G. Dodge. No. 941,501; Nov. 30; Sp. p. 6742; Gaz. vol. 148; p. 1142.  
 Garment-support, Movable. L. G. Dodge, W. Freeman, and A. Vanderveld. No. 941,502; Nov. 30; Sp. p. 6743; Gaz. vol. 148; p. 1142.  
 Garment-supports, Guard for rotary. S. D. Young. No. 941,669; Nov. 30; Sp. p. 7082; Gaz. vol. 148; p. 1197.  
 Garment-supporter. R. F. Bartel. No. 912,060; Feb. 9; Sp. p. 2135; Gaz. vol. 139; p. 368.  
 Garment-supporter. E. M. Tacy. No. 912,204; Feb. 9; Sp. p. 2393; Gaz. vol. 139; p. 412.  
 Garment-supporter. C. J. White. No. 912,517; Feb. 16; Sp. p. 3087; Gaz. vol. 139; p. 556.  
 Garment-supporter. W. P. Kellogg. No. 914,050; Mar. 2; Sp. p. 853; Gaz. vol. 140; p. 132.  
 Garment-supporter. J. G. Morrill. No. 916,472; Mar. 30; Sp. p. 5724; Gaz. vol. 140; p. 1033.  
 Garment-supporter. R. Zimmermann. No. 920,234; May 4; Sp. p. 288; Gaz. vol. 142; p. 46.  
 Garment-supporter. C. P. Meyer. No. 922,176; May 18; Sp. p. 4275; Gaz. vol. 142; p. 745.  
 Garment-supporter. M. S. Erlanger. No. 924,974; June 15; Sp. p. 4038; Gaz. vol. 143; p. 687.  
 Garment-supporter. A. C. Davis. No. 926,856; July 6; Sp. p. 323; Gaz. vol. 144; p. 51.  
 Garment-supporter. D. Wertz. No. 926,916; July 6; Sp. p. 444; Gaz. vol. 144; p. 71.  
 Garment-supporter. J. H. Bryant. No. 927,323; July 6; Sp. p. 1257; Gaz. vol. 144; p. 207.  
 Garment-supporter. G. Barfus. No. 928,421; July 20; Sp. p. 3581; Gaz. vol. 144; p. 633.  
 Garment-supporter. W. A. Seibel. No. 941,105; Nov. 23; Sp. p. 5866; Gaz. vol. 148; p. 989.  
 Garment-supporter. S. Kops. No. 941,787; Nov. 30; Sp. p. 7342; Gaz. vol. 148; p. 1237.  
 Garment-supporter. D. H. Haywood. No. 942,323; Dec. 7; Sp. p. 627; Gaz. vol. 149; p. 100.  
 Garment-supporter. G. C. Biddle. No. 944,655; Dec. 28; Sp. p. 5655; Gaz. vol. 149; p. 981.  
 Garment-supporter and adjuster. G. D. Mackay. No. 933,191; Sept. 7; Sp. p. 344; Gaz. vol. 146; p. 55.  
 Garment-supporter clasp. B. Lauckner. No. 943,084; Dec. 14; Sp. p. 2292; Gaz. vol. 149; p. 388.  
 Garment-supporter clasp. B. F. Orewiler. No. 916,188; Mar. 23; Sp. p. 5156; Gaz. vol. 140; p. 912.  
 Garment-supporter clasp. S. Kops. No. 918,168; Apr. 13; Sp. p. 2447; Gaz. vol. 141; p. 438.  
 Garment-supporter clasp. R. A. Moore. No. 922,799; May 25; Sp. p. 5561; Gaz. vol. 142; p. 977.  
 Garment-supporter clasp. J. C. Copeland. No. 927,953; July 13; Sp. p. 2624; Gaz. vol. 144; p. 445.  
 Garment-supporter, Combination. G. N. Thompson. No. 909,964; Jan. 19; Sp. p. 3099; Gaz. vol. 138; p. 573.  
 Garment-supporter or hanger. J. K. Drutman. No. 925,997; June 22; Sp. p. 6081; Gaz. vol. 143; p. 1051.  
 Garment-supporting strap. E. Morris, Jr. No. 939,058; Nov. 2; Sp. p. 1300; Gaz. vol. 148; p. 210.  
 Garment, Union. E. Taylor. No. 920,688; May 4; Sp. p. 1215; Gaz. vol. 142; p. 196.  
 Garment, Union. W. A. Meredith. No. 923,982; June 8; Sp. p. 1950; Gaz. vol. 143; p. 394.  
 Garment waistband-adjuster. E. Holdgate. No. 918,324; Apr. 13; Sp. p. 2767; Gaz. vol. 141; p. 490.  
 Garment wrapper and protector. L. W. Wilms. No. 911,278; Feb. 2; Sp. p. 509; Gaz. vol. 139; p. 87.  
 Garments, Means for adjusting the waistbands of. M. S. Erlanger. No. 910,366; Jan. 19; Sp. p. 3950; Gaz. vol. 138; p. 710.  
 Garter. L. S. Harvey. No. 908,665; Jan. 5; Sp. p. 506; Gaz. vol. 138; p. 79.  
 Garter. W. M. McCafferty. No. 912,718; Feb. 16; Sp. p. 3540; Gaz. vol. 139; p. 627.  
 Garter. P. E. Seifert. No. 915,228; Mar. 16; Sp. p. 3259; Gaz. vol. 140; p. 570.  
 Garter-clasp. M. W. Schloss. No. 920,186; May 4; Sp. p. 185; Gaz. vol. 142; p. 29.  
 Garter-clasp. J. S. Blinn. No. 921,070; May 11; Sp. p. 1997; Gaz. vol. 142; p. 351.  
 Garter-fastener. C. M. Simpson. No. 911,772; Feb. 9; Sp. p. 1471; Gaz. vol. 139; p. 274.  
 Garter, Gentleman's. G. J. Hall. No. 914,268; Mar. 2; Sp. p. 1311; Gaz. vol. 140; p. 203.  
 Gas air-heater. F. S. Lamson. No. 937,821; Oct. 26; Sp. p. 4631; Gaz. vol. 147; p. 802.  
 Gas-analyzing apparatus. H. N. Cheney and H. L. V. Nickerson. No. 922,086; May 18; Sp. p. 4107; Gaz. vol. 142; p. 717.  
 Gas-analyzing apparatus. G. V. Cederborg. No. 928,027; July 13; Sp. p. 2751; Gaz. vol. 144; p. 469.  
 Gas-analyzing apparatus, Automatic. E. H. Peabody. No. 944,274; Dec. 28; Sp. p. 4794; Gaz. vol. 149; p. 848.  
 Gas and air for illuminating purposes, Manufacture of a mixture of. F. W. Wolff. No. 935,444; Sept. 28; Sp. p. 4960; Gaz. vol. 146; p. 876.  
 Gas and air, Mechanism for the production of a constant mixture of. F. W. Wolff. No. 937,016; Oct. 12; Sp. p. 2936; Gaz. vol. 147; p. 488.  
 Gas and air supply to large-chambered ovens. H. Koppers. No. 933,993; Sept. 14; Sp. p. 2093; Gaz. vol. 146; p. 345.  
 Gas and carbureted water-gas, Manufacturing mixed coal-. W. Thomas. No. 940,289; Nov. 16; Sp. p. 4079; Gaz. vol. 148; p. 692.  
 Gas and collecting by-products, Purifying coal-. T. McWatters. No. 926,352; June 29; Sp. p. 6838; Gaz. vol. 143; p. 1203.  
 Gas and like fluids, Prepayment apparatus for delivering. W. Cox and W. Staples. No. 910,179; Jan. 19; Sp. p. 3528; Gaz. vol. 138; p. 643.  
 Gas and oxygen burner. H. Riess. No. 918,089; Apr. 13; Sp. p. 2299; Gaz. vol. 141; p. 412.  
 Gas and steam pressure regulating device. A. Gaudet. No. 915,587; Mar. 16; Sp. p. 3982; Gaz. vol. 140; p. 688.  
 Gas and water, Agitating device for mixing carbonic-acid. L. Caul. No. 944,717; Dec. 28; Sp. p. 5794; Gaz. vol. 149; p. 1001.  
 Gas and water meter. A. G. Sutherland. No. 930,435; Aug. 10; Sp. p. 1639; Gaz. vol. 145; p. 296.  
 Gas apparatus. A. L. Cihak. No. 911,572; Feb. 9; Sp. p. 1070; Gaz. vol. 139; p. 209.  
 Gas apparatus. J. F. Beals. No. 936,212; Oct. 5; Sp. p. 1268; Gaz. vol. 147; p. 193.  
 Gas apparatus. A. P. Rickmire. No. 942,929; Dec. 14; Sp. p. 1920; Gaz. vol. 149; p. 334.  
 Gas apparatus, Acetylene-. L. J. Olson. No. 932,997; Aug. 31; Sp. p. 7079; Gaz. vol. 145; p. 1218.  
 Gas apparatus, Acetylene-. C. K. Sober. No. 933,793; Sept. 14; Sp. p. 1691; Gaz. vol. 146; p. 280.  
 Gas, Apparatus for converting volatile hydrocarbons into fixed. H. F. Smith. No. 928,076; July 13; Sp. p. 2848; Gaz. vol. 144; p. 485.  
 Gas, Apparatus for generating hot compressed. H. Neumann. No. 928,324; July 20; Sp. p. 3410; Gaz. vol. 144; p. 600.  
 Gas, Apparatus for recovering light oils from natural. J. L. Gray. No. 933,976; Sept. 14; Sp. p. 2062; Gaz. vol. 146; p. 340.  
 Gas, Apparatus for the manufacture of. W. H. Morgan and J. Bensley. No. 936,144; Oct. 5; Sp. p. 1150; Gaz. vol. 147; p. 174.  
 Gas, Apparatus for the manufacture of producer-. W. J. Crossley and T. Rigby. No. 943,182; Dec. 14; Sp. p. 2471; Gaz. vol. 149; p. 420.  
 Gas apparatus, Water-. L. D. Carroll. No. 922,389; May 18; Sp. p. 4705; Gaz. vol. 142; p. 815.  
 Gas apparatus, Water-. S. J. Dickey. No. 940,925; Nov. 23; Sp. p. 5479; Gaz. vol. 148; p. 929.  
 Gas appliance, Safety. F. Grott. No. 923,646; June 1; Sp. p. 1192; Gaz. vol. 143; p. 183.  
 Gas-bags or the like, Apparatus for ascertaining the buoyancy of. S. D. Wheeler. No. 922,648; May 25; Sp. p. 5255; Gaz. vol. 142; p. 929.  
 Gas-burner. J. Y. Parke. No. 908,607; Jan. 5; Sp. p. 374; Gaz. vol. 138; p. 60.  
 Gas-burner. A. F. Thompson. No. 909,711; Jan. 12; Sp. p. 2579; Gaz. vol. 138; p. 457.  
 Gas-burner. G. S. Andrews. No. 912,054; Feb. 9; Sp. p. 2123; Gaz. vol. 139; p. 366.  
 Gas-burner. W. V. D. Kelley. No. 912,576; Feb. 16; Sp. p. 3218; Gaz. vol. 139; p. 577.

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 Gas-burner. H. A. B. Helander. No. 914,044; Mar. 2; Sp. p. 846; Gaz. vol. 140; p. 130.  
 Gas-burner. E. Schumacher. No. 914,193; Mar. 2; Sp. p. 1156; Gaz. vol. 140; p. 180.  
 Gas-burner. J. M. Hare. No. 917,728; Apr. 6; Sp. p. 1492; Gaz. vol. 141; p. 261.  
 Gas-burner. F. E. Buddington. No. 917,998; Apr. 13; Sp. p. 2121; Gaz. vol. 141; p. 380.  
 Gas-burner. W. Wuttenow. No. 918,245; Apr. 13; Sp. p. 2623; Gaz. vol. 141; p. 464.  
 Gas-burner. F. Rybar. No. 919,645; Apr. 27; Sp. p. 5760; Gaz. vol. 141; p. 991.  
 Gas-burner. J. J. Moore. No. 921,139; May 11; Sp. p. 2130; Gaz. vol. 142; p. 375.  
 Gas-burner. F. and R. Park. No. 922,502; May 25; Sp. p. 4940; Gaz. vol. 142; p. 880.  
 Gas-burner. E. L. White. No. 922,989; May 25; Sp. p. 5958; Gaz. vol. 142; p. 1039.  
 Gas-burner. G. Smith. No. 924,390; June 8; Sp. p. 2819; Gaz. vol. 143; p. 458.  
 Gas-burner. S. T. Willson. No. 927,825; July 13; Sp. p. 2333; Gaz. vol. 144; p. 402.  
 Gas-burner. J. H. Atwood. No. 929,072; July 27; Sp. p. 4902; Gaz. vol. 144; p. 874.  
 Gas-burner. W. M. Bachelder and M. D. Avery. No. 930,523; Aug. 10; Sp. p. 1861; Gaz. vol. 145; p. 328.  
 Gas-burner. W. G. Frazeur. No. 931,051; Aug. 17; Sp. p. 2997; Gaz. vol. 145; p. 528.  
 Gas-burner. H. Ruppel. No. 931,654; Aug. 17; Sp. p. 4262; Gaz. vol. 145; p. 728.  
 Gas-burner. J. O. Shoop. No. 933,676; Sept. 7; Sp. p. 1450; Gaz. vol. 146; p. 219.  
 Gas-burner. W. V. D. Kelley. No. 937,002; Oct. 12; Sp. p. 2904; Gaz. vol. 147; p. 484.  
 Gas-burner. T. S. Philpott. No. 938,019; Oct. 26; Sp. p. 5050; Gaz. vol. 147; p. 868.  
 Gas-burner. F. T. Todd. No. 938,182; Oct. 26; Sp. p. 5419; Gaz. vol. 147; p. 924.  
 Gas-burner. A. Holtman. No. 938,423; Oct. 26; Sp. p. 5940; Gaz. vol. 147; p. 1007.  
 Gas-burner. W. F. Cobedesh. No. 938,745; Nov. 2; Sp. p. 636; Gaz. vol. 148; p. 101.  
 Gas-burner. B. A. Geurink. No. 939,242; Nov. 9; Sp. p. 1723; Gaz. vol. 148; p. 299.  
 Gas-burner. J. Weintz. No. 941,437; Nov. 30; Sp. p. 6608; Gaz. vol. 148; p. 1120.  
 Gas-burner. B. A. Geurink. No. 941,708; Nov. 30; Sp. p. 7184; Gaz. vol. 148; p. 1211.  
 Gas-burner. L. H. Brady. No. 942,709; Dec. 7; Sp. p. 1397; Gaz. vol. 149; p. 229.  
 Gas-burner. H. S. Humphrey. No. 942,831; Dec. 7; Sp. p. 1653; Gaz. vol. 149; p. 270.  
 Gas burner, Acetylene. A. Bray. No. 935,735; Oct. 5; Sp. p. 235; Gaz. vol. 147; p. 38.  
 Gas burner, Alcohol. W. E. Cochran. No. 922,445; May 18; Sp. p. 4824; Gaz. vol. 142; p. 834.  
 Gas-burner and water-heater for ranges, Combined. H. Van Buren. No. 911,347; Feb. 2; Sp. p. 634; Gaz. vol. 139; p. 108.  
 Gas-burner automatic cut-off. W. H. Krueger. No. 915,681; Mar. 16; Sp. p. 4196; Gaz. vol. 140; p. 723.  
 Gas-burner baffle. J. Schirra. No. 913,567; Feb. 23; Sp. p. 5271; Gaz. vol. 139; p. 933.  
 Gas-burner, Combination. H. Williams. No. 934,120; Sept. 14; Sp. p. 2351; Gaz. vol. 146; p. 386.  
 Gas-burner, Combined upright and pendent mantle. M. W. Pitner. No. 919,945; Apr. 27; Sp. p. 6381; Gaz. vol. 141; p. 1090.  
 Gas-burner, Electric hand-lighting. A. J. Perkins. No. 916,776; Mar. 30; Sp. p. 6297; Gaz. vol. 140; p. 1126.  
 Gas-burner, Electric-lighting. H. L. Baldwin. No. 908,538; Jan. 5; Sp. p. 224; Gaz. vol. 138; p. 38.  
 Gas-burner fastening means. C. T. Fuller. No. 922,128; May 18; Sp. p. 4178; Gaz. vol. 142; p. 731.  
 Gas-burner heater attachment. G. Yoerger. No. 921,778; May 18; Sp. p. 3473; Gaz. vol. 142; p. 617.  
 Gas-burner, Incandescent. K. Kippers. No. 918,753; Apr. 20; Sp. p. 3727; Gaz. vol. 141; p. 661.  
 Gas-burner, Incandescent. W. S. Stapley. No. 921,748; May 18; Sp. p. 3405; Gaz. vol. 142; p. 606.  
 Gas-burner, Inverted. J. Lederer. No. 917,774; Apr. 13; Sp. p. 1630; Gaz. vol. 141; p. 303.  
 Gas-burner, Inverted. J. Lederer. No. 920,353; May 4; Sp. p. 535; Gaz. vol. 142; p. 85.  
 Gas-burner, Safety. J. H. Ahlgren. No. 909,508; Jan. 12; Sp. p. 2183; Gaz. vol. 138; p. 387.  
 Gas-burner, Safety. B. Martelli. No. 922,010; May 18; Sp. p. 3962; Gaz. vol. 142; p. 693.  
 Gas-burner safety attachment. G. H. Jennings. No. 922,770; May 25; Sp. p. 5506; Gaz. vol. 142; p. 968.  
 Gas-burner safety-cock. M. Jakobson. No. 919,019; Apr. 20; Sp. p. 4280; Gaz. vol. 141; p. 749.  
 Gas-burner, Self-closing. C. A. Johnson. No. 939,263; Nov. 9; Sp. p. 1763; Gaz. vol. 148; p. 306.  
 Gas burner, Three-way natural. J. O'Neil. No. 912,881; Feb. 16; Sp. p. 3845; Gaz. vol. 139; p. 678.  
 Gas-burner valve. L. L. Carnahan. No. 928,497; July 20; Sp. p. 3729; Gaz. vol. 144; p. 636.  
 Gas-burners, Apparatus for electrically igniting. A. J. Hill and F. C. D. Mann. No. 942,901; Dec. 14; Sp. p. 1848; Gaz. vol. 149; p. 325.  
 Gas-burners at given hours, Device for lighting and extinguishing. E. de Gonnevitch. No. 936,120; Oct. 5; Sp. p. 1092; Gaz. vol. 147; p. 167.  
 Gas-burners, Globe for inverted incandescent. L. W. Young. No. 934,873; Sept. 21; Sp. p. 3812; Gaz. vol. 146; p. 661.  
 Gas, Capsule for holding compressed or liquefied. H. V. R. Read and R. H. Campbell. No. 926,075; June 22; Sp. p. 6253; Gaz. vol. 143; p. 1077.  
 Gas-cleaner. J. Ruddiman. No. 919,249; Apr. 20; Sp. p. 4893; Gaz. vol. 141; p. 821.  
 Gas-cock, Safety. E. D. Booz. No. 917,408; Apr. 6; Sp. p. 907; Gaz. vol. 141; p. 157.  
 Gas, Composition of matter for manufacturing hydrogen. G. F. Brindley and P. M. Bennie. No. 934,036; Sept. 14; Sp. p. 2164; Gaz. vol. 146; p. 358.  
 Gas-compressor. W. J. Boland. No. 920,421; May 4; Sp. p. 682; Gaz. vol. 142; p. 107.  
 Gas-compressor. T. Shipley. No. 930,567; Aug. 10; Sp. p. 1940; Gaz. vol. 145; p. 342.  
 Gas-condenser. A. W. Mockridge. No. 934,617; Sept. 21; Sp. p. 3318; Gaz. vol. 146; p. 577.  
 Gas-conduit coupling. H. M. Holton. No. 936,721; Oct. 12; Sp. p. 2359; Gaz. vol. 147; p. 392.  
 Gas-conduits, Combined liquid separator and indicator for. R. L. Zendorff. No. 914,812; Mar. 9; Sp. p. 2426; Gaz. vol. 140; p. 408.  
 Gas, Contrivance for saturating liquids with. F. Trosienier. No. 942,115; Dec. 7; Sp. p. 158; Gaz. vol. 149; p. 28.  
 Gas cooler and cleaner. E. H. Amet. No. 931,018; Aug. 10; Sp. p. 2912; Gaz. vol. 145; p. 490.  
 Gas cut-off. A. E. Westburg. No. 921,191; May 11; Sp. p. 2241; Gaz. vol. 142; p. 394.  
 Gas cut-off and safety device, Automatic. M. F. Nichols. No. 934,339; Sept. 14; Sp. p. 2766; Gaz. vol. 146; p. 459.  
 Gas cut-off, Automatic. H. Niemann. No. 910,221; Jan. 19; Sp. p. 3620; Gaz. vol. 138; p. 658.  
 Gas cut-off, Automatic. L. and H. Schmidt. No. 921,897; May 18; Sp. p. 3721; Gaz. vol. 142; p. 696.  
 Gas cut-off, Automatic. R. F. Ainsworth. No. 935,725; Oct. 5; Sp. p. 215; Gaz. vol. 147; p. 35.  
 Gas cut-off, Safety. H. Tullis. No. 942,601; Dec. 7; Sp. p. 1188; Gaz. vol. 149; p. 194.  
 Gas-distributor. F. Bénard. No. 916,980; Apr. 6; Sp. p. 31; Gaz. vol. 141; p. 10.  
 Gas-element electrode. E. W. Jungner. No. 913,390; Feb. 23; Sp. p. 4878; Gaz. vol. 139; p. 874.  
 Gas-engine. J. E. Patterson. No. 913,156; Feb. 23; Sp. p. 4395; Gaz. vol. 139; p. 794.  
 Gas-engine. C. M. Leech. No. 914,292; Mar. 2; Sp. p. 1357; Gaz. vol. 140; p. 210.  
 Gas-engine. J. G. Willet. No. 914,366; Mar. 2; Sp. p. 1523; Gaz. vol. 140; p. 235.  
 Gas-engine. W. J. Wright. No. 915,717; Mar. 16; Sp. p. 4260; Gaz. vol. 140; p. 734.  
 Gas-engine. C. E. Mead. No. 921,264; May 11; Sp. p. 2385; Gaz. vol. 142; p. 418.  
 Gas-engine. E. J. Gulick. No. 923,046; May 25; Sp. p. 6072; Gaz. vol. 142; p. 1057.  
 Gas-engine. C. G. Sprado. No. 923,591; June 1; Sp. p. 1077; Gaz. vol. 143; p. 164.  
 Gas-engine. C. G. Sprado. No. 923,594; June 1; Sp. p. 1083; Gaz. vol. 143; p. 165.  
 Gas-engine. H. M. Yager. No. 928,299; July 20; Sp. p. 3362; Gaz. vol. 144; p. 591.  
 Gas-engine. A. S. Krotz. No. 931,319; Aug. 17; Sp. p. 3601; Gaz. vol. 145; p. 621.  
 Gas-engine. C. T. Wade. No. 931,531; Aug. 17; Sp. p. 4008; Gaz. vol. 145; p. 690.  
 Gas-engine. F. W. Reeves. No. 933,108; Sept. 7; Sp. p. 150; Gaz. vol. 146; p. 25.  
 Gas-engine. J. T. Cowie. No. 935,091; Sept. 28; Sp. p. 4267; Gaz. vol. 146; p. 762.  
 Gas-engine. B. E. Halverstadt. No. 936,318; Oct. 12; Sp. p. 1478; Gaz. vol. 147; p. 255.  
 Gas-engine. R. G. and V. E. Nelson. No. 941,169; Nov. 23; Sp. p. 6018; Gaz. vol. 148; p. 1011.  
 Gas-engine. C. S. Dutton. No. 944,235; Dec. 21; Sp. p. 4705; Gaz. vol. 149; p. 806.  
 Gas-engine, Rotary. J. E. Friend. No. 913,635; Feb. 23; Sp. p. 5428; Gaz. vol. 139; p. 956.  
 Gas-engine with combined apparatus. W. Heckert. No. 920,056; Apr. 27; Sp. p. 6628; Gaz. vol. 141; p. 1127.  
 Gas-engines, Pneumatically-operated ignition device for. C. G. Hess. No. 929,429; July 27; Sp. p. 5656; Gaz. vol. 144; p. 993.  
 Gas-escape. H. H. Fulton. No. 941,917; Nov. 30; Sp. p. 7623; Gaz. vol. 148; p. 1284.  
 Gas extinguisher and lighter. J. A. Matonsek. No. 928,776; July 20; Sp. p. 4294; Gaz. vol. 144; p. 749.  
 Gas-extractor and mine-ventilator. G. Laws. No. 922,603; May 25; Sp. p. 5163; Gaz. vol. 142; p. 914.  
 Gas-fixture. A. Jarmolowsky. No. 917,446; Apr. 6; Sp. p. 972; Gaz. vol. 141; p. 169.  
 Gas-fixture. W. E. Ostot. No. 927,673; July 13; Sp. p. 2027; Gaz. vol. 144; p. 352.  
 Gas-fixture adjustable pilot-light attachment. G. Glücher. No. 912,304; Feb. 16; Sp. p. 2640; Gaz. vol. 139; p. 484.  
 Gas-fixture, Portable. G. W. Conrow. No. 915,271; Mar. 16; Sp. p. 3342; Gaz. vol. 140; p. 583.  
 Gas-fixture safety connection. D. Tangney. No. 937,891; Oct. 26; Sp. p. 4778; Gaz. vol. 147; p. 826.  
 Gas-fixture safety device. J. G. Jambas and F. J. Stephens. No. 917,303; Apr. 6; Sp. p. 714; Gaz. vol. 141; p. 122.



*Alphabetical list of inventions—Continued.*

- Gas-fixture, Self-closing. C. Schmidt. No. 926,774; July 6; Sp. p. 134; Gaz. vol. 144; p. 22.
- Gas for illuminating, heating, or power purposes, Manufacture of. H. S. Elworthy. No. 943,627; Dec. 14; Sp. p. 3440; Gaz. vol. 149; p. 574.
- Gas from coal, Manufacturing. B. Thiemich. No. 912,509; Feb. 16; Sp. p. 3067; Gaz. vol. 139; p. 553.
- Gas from liquid hydrocarbons, Apparatus for producing. J. M. Willard. No. 921,934; May 18; Sp. p. 3788; Gaz. vol. 142; p. 667.
- Gas from wood, Manufacturing. B. Loomis and H. Pettibone. No. 927,418; July 6; Sp. p. 1437; Gaz. vol. 144; p. 238.
- Gas-furnace. J. Bueb. No. 928,494; July 20; Sp. p. 3726; Gaz. vol. 144; p. 655.
- Gas-furnace, Regenerative. J. B. Acker. No. 921,332; May 11; Sp. p. 2548; Gaz. vol. 142; p. 440.
- Gas, Generating. C. E. Lucke. No. 915,034; Mar. 9; Sp. p. 2829; Gaz. vol. 140; p. 479.
- Gas-generating apparatus. J. H. Stringham. No. 935,283; Sept. 28; Sp. p. 4639; Gaz. vol. 146; p. 824.
- Gas-generating apparatus. J. H. Stringham. No. 935,429; Sept. 28; Sp. p. 4927; Gaz. vol. 146; p. 870.
- Gas-generating crucible-furnace. E. H. Schwartz. No. 910,091; Jan. 19; Sp. p. 3339; Gaz. vol. 138; p. 614.
- Gas, Generating producer-. H. F. Smith. No. 928,808; July 20; Sp. p. 4352; Gaz. vol. 144; p. 759.
- Gas-generator. M. Kennedy. No. 910,921; Jan. 26; Sp. p. 5077; Gaz. vol. 138; p. 915.
- Gas-generator. A. Ammentorp. No. 911,801; Feb. 9; Sp. p. 1519; Gaz. vol. 139; p. 284.
- Gas-generator. J. A. Kenworthy. No. 913,733; Mar. 2; Sp. p. 114; Gaz. vol. 140; p. 21.
- Gas-generator. R. von Foregger. No. 916,291; Mar. 23; Sp. p. 5339; Gaz. vol. 140; p. 946.
- Gas-generator. R. N. McDonough and J. M. Conway. No. 926,889; July 6; Sp. p. 384; Gaz. vol. 144; p. 62.
- Gas-generator. G. Poe. No. 929,875; Aug. 3; Sp. p. 536; Gaz. vol. 145; p. 86.
- Gas-generator. L. A. Chavanne. No. 930,532; Aug. 10; Sp. p. 1878; Gaz. vol. 145; p. 331.
- Gas-generator. N. Goodyear. No. 930,749; Aug. 10; Sp. p. 2315; Gaz. vol. 145; p. 402.
- Gas-generator. N. Goodyear. No. 931,293; Aug. 17; Sp. p. 3549; Gaz. vol. 145; p. 612.
- Gas-generator. G. F. Jaubert. No. 933,077; Sept. 7; Sp. p. 80; Gaz. vol. 146; p. 14.
- Gas-generator. J. Darling. No. 933,828; Sept. 14; Sp. p. 1762; Gaz. vol. 146; p. 292.
- Gas-generator. J. S. Loder. No. 935,119; Sept. 28; Sp. p. 4326; Gaz. vol. 146; p. 772.
- Gas-generator. L. Van Vliet. No. 937,341; Oct. 19; Sp. p. 3634; Gaz. vol. 147; p. 624.
- Gas-generator. J. H. Jourdan. No. 943,601; Dec. 14; Sp. p. 3342; Gaz. vol. 149; p. 564.
- Gas-generator. L. C. Gilmore. No. 944,856; Dec. 28; Sp. p. 6107; Gaz. vol. 149; p. 1049.
- Gas generator, Acetylene-. M. L. and G. W. Rice. No. 908,610; Jan. 5; Sp. p. 378; Gaz. vol. 138; p. 61.
- Gas generator, Acetylene-. W. E. Shreffler. No. 909,698; Jan. 12; Sp. p. 2546; Gaz. vol. 138; p. 452.
- Gas generator, Acetylene-. J. F. Hoffman. No. 910,538; Jan. 26; Sp. p. 4310; Gaz. vol. 138; p. 791.
- Gas generator, Acetylene-. G. E. Johnson. No. 912,380; Feb. 16; Sp. p. 2797; Gaz. vol. 139; p. 510.
- Gas generator, Acetylene-. E. M. Rosenbluth. No. 916,024; Mar. 23; Sp. p. 4856; Gaz. vol. 140; p. 859.
- Gas generator, Acetylene-. T. S. Towle. No. 919,091; Apr. 20; Sp. p. 4409; Gaz. vol. 141; p. 718.
- Gas generator, Acetylene-. W. W. Cozins. No. 922,090; May 18; Sp. p. 4115; Gaz. vol. 142; p. 718.
- Gas generator, Acetylene-. H. B. Compton and W. W. Ramsey. No. 924,533; June 8; Sp. p. 3088; Gaz. vol. 143; p. 505.
- Gas generator, Acetylene-. S. T. Russell. No. 926,292; June 29; Sp. p. 6711; Gaz. vol. 143; p. 1184.
- Gas generator, Acetylene-. A. J. R. Marjenhoff. No. 926,952; July 6; Sp. p. 516; Gaz. vol. 144; p. 84.
- Gas generator, Acetylene-. G. H. Emerson, R. D. Hawkins, and F. T. Kitchen. No. 927,780; July 13; Sp. p. 2234; Gaz. vol. 144; p. 387.
- Gas generator, Acetylene-. E. E. Miller. No. 927,991; July 13; Sp. p. 2677; Gaz. vol. 144; p. 456.
- Gas generator, Acetylene-. G. H. Emerson, R. D. Hawkins, and F. T. Kitchen. No. 932,006; Aug. 24; Sp. p. 5069; Gaz. vol. 145; p. 867.
- Gas generator, Acetylene-. W. A. Woods. No. 933,607; Sept. 7; Sp. p. 1326; Gaz. vol. 146; p. 196.
- Gas generator, Acetylene-. F. J. Moss. No. 939,614; Nov. 9; Sp. p. 2586; Gaz. vol. 148; p. 425.
- Gas generator, Acetylene-. Z. A. Ferrel. No. 940,884; Nov. 16; Sp. p. 4328; Gaz. vol. 148; p. 725.
- Gas generator and lamp. R. L. Doran. No. 921,093; May 11; Sp. p. 2046; Gaz. vol. 142; p. 359.
- Gas-generator apparatus for producing combustible gases. G. Marconnet. No. 909,920; Jan. 19; Sp. p. 3007; Gaz. vol. 138; p. 557.
- Gas generator, Automatic high-pressure acetylene-. C. Woolley. No. 926,632; June 29; Sp. p. 3748; Gaz. vol. 143; p. 1296.
- Gas-generator, Explosive-engine. G. W. Price. No. 918,197; Apr. 13; Sp. p. 2508; Gaz. vol. 141; p. 448.
- Gas generator, Hydrocarbon-. E. B. Brown. No. 935,294; Sept. 28; Sp. p. 4660; Gaz. vol. 146; p. 828.
- Gas generator, Hydrogen-. G. F. Jaubert. No. 943,022; Dec. 14; Sp. p. 2142; Gaz. vol. 149; p. 367.
- Gas generator, Oil-. A. A. Osborn. No. 916,003; Mar. 23; Sp. p. 4820; Gaz. vol. 140; p. 852.
- Gas generator, Water-. W. E. McKay and H. N. Cheney. No. 911,899; Feb. 9; Sp. p. 1704; Gaz. vol. 139; p. 316.
- Gas generators, Agitator for carbide-. F. L. H. Sims. No. 920,198; May 4; Sp. p. 219; Gaz. vol. 142; p. 34.
- Gas generators, Carbide-feed device for acetylene-. J. W. Weaver. No. 937,124; Oct. 19; Sp. p. 3158; Gaz. vol. 147; p. 555.
- Gas generators, Charging and recharging device for carbide-. F. L. H. Sims. No. 929,032; July 27; Sp. p. 4819; Gaz. vol. 144; p. 862.
- Gas generators, Feed for acetylene-. J. Boland and W. A. Hinkle. No. 928,022; July 13; Sp. p. 2733; Gaz. vol. 144; p. 466.
- Gas-harp, Convertible. F. Heuer. No. 933,072; Sept. 7; Sp. p. 68; Gaz. vol. 146; p. 12.
- Gas-heater. J. A. Eddy. No. 928,742; July 20; Sp. p. 4237; Gaz. vol. 144; p. 738.
- Gas-heater. A. Abramson. No. 930,914; Aug. 10; Sp. p. 2667; Gaz. vol. 145; p. 456.
- Gas heater and cooker. W. Akin. No. 910,345; Jan. 19; Sp. p. 3912; Gaz. vol. 138; p. 704.
- Gas-heater automatic controller. A. J. Krein and J. F. Hargreaves. No. 912,000; Feb. 9; Sp. p. 1999; Gaz. vol. 139; p. 349.
- Gas-heater automatic cut-off. H. A. Koenig. No. 909,308; Jan. 12; Sp. p. 1793; Gaz. vol. 138; p. 321.
- Gas-heater for water-backs. E. M. Kennard. No. 914,288; Mar. 2; Sp. p. 1347; Gaz. vol. 140; p. 209.
- Gas-holder. F. H. Wagner. No. 917,687; Apr. 6; Sp. p. 1407; Gaz. vol. 141; p. 248.
- Gas-holders, Guide-frame for. H. J. Stoffels. No. 925,850; June 22; Sp. p. 5799; Gaz. vol. 143; p. 1004.
- Gas-holders, Low-limit valve for. L. Shaw. No. 942,796; Dec. 7; Sp. p. 1572; Gaz. vol. 149; p. 258.
- Gas holding and administering apparatus. G. von Ach. No. 923,752; June 1; Sp. p. 1396; Gaz. vol. 143; p. 218.
- Gas-hose attachment. P. Maggio. No. 911,250; Feb. 2; Sp. p. 457; Gaz. vol. 139; p. 78.
- Gas-igniter, Electric. W. D. Brackett. No. 922,081; May 18; Sp. p. 4097; Gaz. vol. 142; p. 716.
- Gas-igniting device. W. Grix. No. 933,431; Sept. 7; Sp. p. 880; Gaz. vol. 146; p. 138.
- Gas-igniting device, Electric. H. Jameson. No. 931,427; Aug. 17; Sp. p. 3813; Gaz. vol. 145; p. 659.
- Gas-impregnated liquids, Apparatus for dispensing. M. J. Levin. No. 936,462; Oct. 12; Sp. p. 1822; Gaz. vol. 147; p. 303.
- Gas in buildings, Device to control the reception of. F. Schmidt. No. 944,638; Dec. 28; Sp. p. 5623; Gaz. vol. 149; p. 975.
- Gas-iron. H. E. Lucas. No. 934,923; Sept. 21; Sp. p. 3915; Gaz. vol. 146; p. 679.
- Gas-jet regulator. C. J. Johnson. No. 923,531; June 1; Sp. p. 929; Gaz. vol. 143; p. 144.
- Gas-kiln. E. Schmatolla. No. 942,013; Nov. 30; Sp. p. 7804; Gaz. vol. 148; p. 1314.
- Gas-light fixture. J. Maas. No. 910,556; Jan. 26; Sp. p. 4352; Gaz. vol. 138; p. 799.
- Gas-lights from a distance, Apparatus for lighting and extinguishing. J. F. Nässén and A. E. T. Bergström. No. 940,046; Nov. 16; Sp. p. 3541; Gaz. vol. 148; p. 606.
- Gas-lighter. W. D. C. Wright. No. 932,935; Aug. 31; Sp. p. 6975; Gaz. vol. 145; p. 1198.
- Gas-lighter. F. H. Pomeroy. No. 940,276; Nov. 16; Sp. p. 4048; Gaz. vol. 148; p. 688.
- Gas-lighter, Automatic. J. C. Landes. No. 916,459; Mar. 30; Sp. p. 5693; Gaz. vol. 140; p. 1028.
- Gas lighting and extinguishing apparatus. O. H. Hinds. No. 911,009; Jan. 26; Sp. p. 5238; Gaz. vol. 138; p. 944.
- Gas lighting and extinguishing apparatus. V. C. J. Nightingall. No. 940,610; Nov. 16; Sp. p. 4792; Gaz. vol. 148; p. 799.
- Gas lighting and extinguishing apparatus. A. E. Broadberry. No. 942,772; Dec. 7; Sp. p. 1529; Gaz. vol. 149; p. 251.
- Gas-lighting apparatus. R. M. Dixon. No. 926,474; June 29; Sp. p. 7052; Gaz. vol. 143; p. 1244.
- Gas-lighting apparatus. R. M. Dixon. No. 927,719; July 13; Sp. p. 2119; Gaz. vol. 144; p. 367.
- Gas-lighting apparatus. G. E. Hulse. No. 942,561; Dec. 7; Sp. p. 1111; Gaz. vol. 149; p. 181.
- Gas-lighting appliance. F. F. Dier. No. 928,307; July 20; Sp. p. 3377; Gaz. vol. 144; p. 594.
- Gas-lighting appliance. F. F. Dier and M. Primeau. No. 928,505; July 20; Sp. p. 3747; Gaz. vol. 144; p. 659.
- Gas-lighting burners, Safety attachment for. H. E. Campbell. No. 944,771; Dec. 28; Sp. p. 5911; Gaz. vol. 149; p. 1019.
- Gas-machines, Interlocking device for. L. H. Miller. No. 923,063; May 25; Sp. p. 6124; Gaz. vol. 142; p. 1063.
- Gas-main. M. G. Moore and R. C. Glazier. No. 936,013; Oct. 5; Sp. p. 874; Gaz. vol. 147; p. 132.
- Gas-main construction. M. G. Moore and R. C. Glazier. No. 912,147; Feb. 9; Sp. p. 2284; Gaz. vol. 139; p. 396.
- Gas-main stopper. P. Goodman. No. 940,458; Nov. 16; Sp. p. 4481; Gaz. vol. 148; p. 749.
- Gas-mains, Automatic cut-off for. C. E. Lahmers. No. 942,832; Dec. 7; Sp. p. 1654; Gaz. vol. 149; p. 270.
- Gas, Making. H. L. Doherty. No. 911,869; Feb. 9; Sp. p. 1645; Gaz. vol. 139; p. 305.
- Gas-making apparatus, Air-heating device for. A. H. Blackburn. No. 924,033; June 8; Sp. p. 2042; Gaz. vol. 143; p. 339.
- Gas, Making producer-. E. E. Slick. No. 921,173; May 11; Sp. p. 2197; Gaz. vol. 142; p. 387.
- Gas, Making water-. C. E. White. No. 935,344; Sept. 28; Sp. p. 4776; Gaz. vol. 146; p. 845.
- Gas-mantle attachment, Incandescent-. M. Herskovitz. No. 924,459; June 8; Sp. p. 2937; Gaz. vol. 143; p. 481.
- Gas-mantle-fixture shock-absorbing device. H. E. Woods. No. 940,629; Nov. 16; Sp. p. 4841; Gaz. vol. 148; p. 806.
- Gas-mantles, Holder for incandescent. A. Martini. No. 927,665; July 13; Sp. p. 2015; Gaz. vol. 144; p. 350.

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- Gas-mantles, Manufacture of incandescent. A. Simonini. No. 936,177; Oct. 5; Sp. p. 1210; Gaz. vol. 147; p. 183.  
 Gas, Manufacture of producer. W. J. Crossley and T. Rigby. No. 926,729; July 6; Sp. p. 18; Gaz. vol. 144; p. 6.  
 Gas, Manufacturing. W. H. Cone. No. 922,857; May 25; Sp. p. 5689; Gaz. vol. 142; p. 997.  
 Gas, Manufacturing. B. Brazelle. No. 928,103; July 13; Sp. p. 2889; Gaz. vol. 144; p. 493.  
 Gas, Manufacturing. C. B. Tully. No. 938,919; Nov. 2; Sp. p. 1030; Gaz. vol. 148; p. 163.  
 Gas-manufacturing and mixing apparatus. B. Loomis and H. Pettibone. No. 912,698; Feb. 16; Sp. p. 3471; Gaz. vol. 139; p. 619.  
 Gas-manufacturing apparatus. B. Loomis. No. 939,282; Nov. 9; Sp. p. 1811; Gaz. vol. 148; p. 313.  
 Gas-manufacturing apparatus, Water and coal. H. W. Benner. No. 918,727; Apr. 20; Sp. p. 3684; Gaz. vol. 141; p. 653.  
 Gas, Means for controlling the feed of oil and steam in the manufacture of. F. H. Wagner. No. 926,628; June 29; Sp. p. 7339; Gaz. vol. 143; p. 1295.  
 Gas-meter, &c. J. Gunning and J. Hansford. No. 919,162; Apr. 20; Sp. p. 4539; Gaz. vol. 141; p. 794.  
 Gas-meter. W. F. Etzel. No. 919,841; Apr. 27; Sp. p. 6192; Gaz. vol. 141; p. 1056.  
 Gas-meter. H. A. Selah. No. 920,090; Apr. 27; Sp. p. 6701; Gaz. vol. 141; p. 1138.  
 Gas-meter. R. L. Dezendorf. No. 924,437; June 8; Sp. p. 2893; Gaz. vol. 143; p. 473.  
 Gas-meter. H. Chrisman. No. 933,159; Sept. 7; Sp. p. 259; Gaz. vol. 146; p. 43.  
 Gas-meter and other coin-freed apparatus, Prepayment. J. Mackenzie and A. Mercer. No. 930,398; Aug. 10; Sp. p. 1565; Gaz. vol. 145, p. 283.  
 Gas-meter attachment, Prepay. T. J. Martin. No. 918,877; Apr. 20; Sp. p. 3992; Gaz. vol. 141; p. 701.  
 Gas-meter-connecting device. H. F. Gray and F. E. Stevens. No. 909,179; Jan. 12; Sp. p. 1546; Gaz. vol. 138; p. 279.  
 Gas-meter connection. F. H. Senfelder. No. 932,816; Aug. 31; Sp. p. 6754; Gaz. vol. 145; p. 1158.  
 Gas-meter pipe connection. A. Elbeald. No. 914,250; Mar. 2; Sp. p. 1274; Gaz. vol. 140; p. 1183.  
 Gas-meter protective device. H. J. Morris. No. 932,162; Aug. 24; Sp. p. 5391; Gaz. vol. 145; p. 919.  
 Gas-meter, Rotary. T. Thorp. No. 910,436; Jan. 19; Sp. p. 4096; Gaz. vol. 138; p. 734.  
 Gas-meter-setting mechanism. V. F. Wilkins. No. 915,521; Mar. 16; Sp. p. 3623; Gaz. vol. 140; p. 665.  
 Gas-meters, Means to prevent misuse of. F. Kennedy. No. 932,140; Aug. 24; Sp. p. 5349; Gaz. vol. 145; p. 912.  
 Gas mixing and administering apparatus. G. von Ach. No. 923,751; June 1; Sp. p. 1392; Gaz. vol. 143; p. 218.  
 Gas or oil burner. O. J. Heindel. No. 939,415; Nov. 9; Sp. p. 2162; Gaz. vol. 148; p. 359.  
 Gas or vapors to the action of liquids, Apparatus for subjecting. C. H. Fowler and E. A. Medley. No. 928,118; July 13; Sp. p. 2915; Gaz. vol. 144; p. 498.  
 Gas plant, Peat. J. D. Oligny. No. 938,691; Nov. 2; Sp. p. 541; Gaz. vol. 148; p. 83.  
 Gas plants, Supply-tank and carburetor for. F. B. Alldredge. No. 940,916; Nov. 23; Sp. p. 5463; Gaz. vol. 148; p. 926.  
 Gas-pressure, Apparatus for increasing. F. A. Ray. No. 937,464; Oct. 19; Sp. p. 3916; Gaz. vol. 147; p. 665.  
 Gas-pressure regulator. R. A. Doane. No. 916,943; Mar. 30; Sp. p. 6639; Gaz. vol. 140; p. 1183.  
 Gas-pressure regulator. J. G. Wilson. No. 934,780; Sept. 21; Sp. p. 3623; Gaz. vol. 146; p. 632.  
 Gas-pressure regulator. O. Sprecher. No. 942,112; Dec. 7; Sp. p. 178; Gaz. vol. 149; p. 27.  
 Gas-producer. J. A. Smitmans. No. 908,812; Jan. 5; Sp. p. 789; Gaz. vol. 138; p. 124.  
 Gas-producer. C. L. Straub. No. 909,345; Jan. 12; Sp. p. 1858; Gaz. vol. 138; p. 333.  
 Gas-producer. F. G. Schmidt. No. 909,690; Jan. 12; Sp. p. 2531; Gaz. vol. 138; p. 449.  
 Gas-producer. F. G. Schmidt. No. 910,319; Jan. 19; Sp. p. 3861; Gaz. vol. 138; p. 695.  
 Gas-producer. G. Hatton. No. 912,373; Feb. 16; Sp. p. 2787; Gaz. vol. 139; p. 507.  
 Gas-producer. E. Lawrenz. No. 912,580; Feb. 16; Sp. p. 3225; Gaz. vol. 139; p. 578.  
 Gas-producer. J. A. Waldburger. No. 913,591; Feb. 23; Sp. p. 6314; Gaz. vol. 139; p. 940.  
 Gas-producer. C. E. Lucke. No. 914,663; Mar. 9; Sp. p. 2102; Gaz. vol. 140; p. 357.  
 Gas-producer. G. C. F. Vater. No. 916,806; Mar. 30; Sp. p. 6356; Gaz. vol. 140; p. 1136.  
 Gas-producer. L. C. Parker and F. W. Bussmeyer. No. 924,819; June 15; Sp. p. 3705; Gaz. vol. 143; p. 635.  
 Gas-producer. G. Akerlund. No. 925,415; June 15; Sp. p. 4956; Gaz. vol. 143; p. 830.  
 Gas-producer. L. F. Burger. No. 925,621; June 22; Sp. p. 5280; Gaz. vol. 143; p. 928.  
 Gas-producer. G. Hatton. No. 925,634; June 22; Sp. p. 5308; Gaz. vol. 143; p. 933.  
 Gas-producer. F. Müller. No. 931,460; Aug. 17; Sp. p. 3880; Gaz. vol. 145; p. 669.  
 Gas-producer. J. R. George. No. 932,853; Aug. 31; Sp. p. 6819; Gaz. vol. 145; p. 1170.  
 Gas-producer. F. Weideneder. No. 933,804; Sept. 14; Sp. p. 1709; Gaz. vol. 146; p. 283.  
 Gas-producer. H. I. Lea. No. 934,446; Sept. 21; Sp. p. 2984; Gaz. vol. 146; p. 520.  
 Gas-producer. R. B. Kernohan. No. 936,636; Oct. 12; Sp. p. 2195; Gaz. vol. 147; p. 363.  
 Gas-producer. F. Müller. No. 937,687; Oct. 19; Sp. p. 4336; Gaz. vol. 147; p. 739.  
 Gas-producer. G. L. Morton. No. 939,288; Nov. 9; Sp. p. 1824; Gaz. vol. 148; p. 315.  
 Gas-producer. R. B. Kernohan. No. 940,696; Nov. 23; Sp. p. 4997; Gaz. vol. 148; p. 853.  
 Gas-producer. O. K. Zwingerberger. No. 942,361; Dec. 7; Sp. p. 695; Gaz. vol. 149; p. 113.  
 Gas-producer. A. Jabs. No. 944,332; Dec. 28; Sp. p. 4926; Gaz. vol. 149; p. 868.  
 Gas-producer connections, Cleaning-out apparatus for. R. H. Miller. No. 924,564; June 8; Sp. p. 3150; Gaz. vol. 143; p. 514.  
 Gas-producer control. R. E. Eldred. No. 908,454; Jan. 5; Sp. p. 42; Gaz. vol. 138; p. 9.  
 Gas-producer fuel-feeder. J. and W. Stewart. No. 930,899; Aug. 10; Sp. p. 2634; Gaz. vol. 145; p. 451.  
 Gas-producer grate and means for removing ashes therefrom. H. F. Smith. No. 928,809; July 20; Sp. p. 4353; Gaz. vol. 144; p. 759.  
 Gas-producer revolving grate. H. Rehmann. No. 937,466; Oct. 19; Sp. p. 3919; Gaz. vol. 147; p. 666.  
 Gas-producer valve. B. M. Aslakson. No. 943,332; Dec. 14; Sp. p. 2793; Gaz. vol. 149; p. 471.  
 Gas-producer wind-box. W. R. Miller. No. 908,479; Jan. 5; Sp. p. 94; Gaz. vol. 138; p. 18.  
 Gas-producers, Fuel-feed for. E. N. Trump. No. 925,400; June 15; Sp. p. 4829; Gaz. vol. 143; p. 826.  
 Gas-producers, Vibratory disintegrator for. J. J. Astor. No. 940,493; Nov. 16; Sp. p. 4550; Gaz. vol. 148; p. 761.  
 Gas-producing furnace. P. G. Schmidt. No. 930,563; Aug. 10; Sp. p. 1931; Gaz. vol. 145; p. 341.  
 Gas-producing plant. H. A. Bickerton and P. W. Robson. No. 919,683; Apr. 27; Sp. p. 5849; Gaz. vol. 141; p. 1004.  
 Gas-purifier. C. Flössel. No. 926,647; June 29; Sp. p. 7375; Gaz. vol. 143; p. 1301.  
 Gas-purifier. W. E. Ashton. No. 929,270; July 27; Sp. p. 5317; Gaz. vol. 144; p. 940.  
 Gas-purifier. T. A. Edison. No. 930,947; Aug. 10; Sp. p. 2738; Gaz. vol. 145; p. 466.  
 Gas-purifier. H. I. Lea. No. 934,448; Sept. 21; Sp. p. 2988; Gaz. vol. 146; p. 521.  
 Gas, Purifying. E. L. Hall. No. 911,494; Feb. 2; Sp. p. 885; Gaz. vol. 139; p. 156.  
 Gas-purifying apparatus. J. Levey. No. 912,694; Feb. 16; Sp. p. 3458; Gaz. vol. 139; p. 617.  
 Gas-purifying apparatus. F. Sepulchre. No. 931,229; Aug. 17; Sp. p. 3399; Gaz. vol. 145; p. 590.  
 Gas-purifying apparatus. W. McArthur. No. 933,097; Sept. 7; Sp. p. 125; Gaz. vol. 146; p. 21.  
 Gas-purifying apparatus. H. I. Lea. No. 934,679; Sept. 21; Sp. p. 3441; Gaz. vol. 146; p. 599.  
 Gas-regulator. F. E. Youngs. No. 930,640; Aug. 10; Sp. p. 2096; Gaz. vol. 145; p. 366.  
 Gas-regulator. M. Graetz. No. 939,684; Nov. 9; Sp. p. 2734; Gaz. vol. 148; p. 451.  
 Gas-regulator, Automatic. G. H. Murray. No. 944,686; Dec. 28; Sp. p. 5710; Gaz. vol. 149; p. 991.  
 Gas-regulator for Bunsen burners. F. T. Williams. No. 920,705; May 4; Sp. p. 1262; Gaz. vol. 142; p. 201.  
 Gas-retort-charging apparatus. E. G. B. Körting. No. 926,702; June 29; Sp. p. 7486; Gaz. vol. 143; p. 1320.  
 Gas, Retort for the manufacture of illuminating-. C. W. Isbell. No. 942,501; Dec. 7; Sp. p. 998; Gaz. vol. 149; p. 160.  
 Gas, Retort for the manufacture of illuminating-. C. W. Isbell. No. 942,558; Dec. 7; Sp. p. 1720; Gaz. vol. 149; p. 279.  
 Gas-retort furnace. H. Ries. No. 926,135; June 29; Sp. p. 6380; Gaz. vol. 143; p. 1132.  
 Gas-retort lid. H. J. Toogood. No. 944,005; Dec. 21; Sp. p. 4258; Gaz. vol. 149; p. 732.  
 Gas retorts, &c., Apparatus for discharging coal-. C. Hollander. No. 912,679; Feb. 16; Sp. p. 3429; Gaz. vol. 139; p. 612.  
 Gas-retorts, Charring. H. J. Toogood. No. 944,004; Dec. 21; Sp. p. 4256; Gaz. vol. 149; p. 732.  
 Gas-scrubber. E. F. Lloyd. No. 916,464; Mar. 30; Sp. p. 5710; Gaz. vol. 140; p. 1030.  
 Gas-scrubber. G. Gray. No. 933,430; Sept. 7; Sp. p. 879; Gaz. vol. 146; p. 137.  
 Gas-scrubbing apparatus. J. J. Nix. No. 934,205; Sept. 14; Sp. p. 2517; Gaz. vol. 146; p. 415.  
 Gas separator, Natural-. A. W. Barker. No. 927,476; July 13; Sp. p. 1586; Gaz. vol. 144; p. 285.  
 Gas-service-pipe automatic injector. W. E. Vaughn. No. 911,464; Feb. 2; Sp. p. 835; Gaz. vol. 139; p. 147.  
 Gas shut-off, Automatic. W. E. Apt and E. L. Schott. No. 924,954; June 15; Sp. p. 3978; Gaz. vol. 143; p. 680.  
 Gas-stoppage alarm. W. E. Apt and E. L. Schott. No. 929,116; July 27; Sp. p. 5000; Gaz. vol. 144; p. 889.  
 Gas storage apparatus, Liquefied-. M. Chase. No. 911,294; Feb. 2; Sp. p. 538; Gaz. vol. 139; p. 92.  
 Gas-storing tank, Acetylene-. P. C. Avery. No. 933,152; Sept. 7; Sp. p. 234; Gaz. vol. 146; p. 40.  
 Gas suitable for illuminating and heating purposes and making said gas, Liquid. L. Wolf. No. 928,729; July 20; Sp. p. 4204; Gaz. vol. 144; p. 733.  
 Gas-supply alarm. L. C. Bulkley. No. 928,937; July 27; Sp. p. 4626; Gaz. vol. 144; p. 830.  
 Gas-syringe with branched-out discharge-pipe. K. Schmidt. No. 910,729; Jan. 26; Sp. p. 4699; Gaz. vol. 138; p. 854.



*Alphabetical list of inventions—Continued.*

- Gas, System for producing a vapor by a liquefied. J. B. Fournier. No. 915,583; Mar. 16; Sp. p. 3780; Gaz. vol. 147; p. 645.
- Gas-tanks and distributing connections therefor. F. W. Beardsley. No. 937,406; Oct. 19; Sp. p. 3975; Gaz. vol. 140; p. 686.
- Gas trap, Sewer-. F. E. Cudell. No. 909,871; Jan. 19; Sp. p. 2902; Gaz. vol. 138; p. 540.
- Gas-treating apparatus. D. C. McIntire. No. 942,863; Dec. 7; Sp. p. 1731; Gaz. vol. 149; p. 281.
- Gas, Treatment of acetylene. J. H. James and H. Watson. No. 928,867; July 20; Sp. p. 4478; Gaz. vol. 144; p. 780.
- Gas turbine-engine. H. Lentz. No. 911,825; Feb. 9; Sp. p. 1570; Gaz. vol. 139; p. 292.
- Gas-washer. G. Wilton. No. 929,358; July 27; Sp. p. 5548; Gaz. vol. 144; p. 977.
- Gas-washer. W. Feld. No. 940,103; Nov. 18; Sp. p. 3681; Gaz. vol. 148; p. 627.
- Gas-washing apparatus. O. H. Ensign. No. 933,966; Sept. 14; Sp. p. 2043; Gaz. vol. 146; p. 337.
- Gas-water-heater drip-cup. J. R. Donnelly. No. 910,796; Jan. 26; Sp. p. 4848; Gaz. vol. 138; p. 876.
- Gases and separating smoke and dust therefrom, Apparatus for treating. E. G. Knoepfel. No. 943,422; Dec. 14; Sp. p. 2972; Gaz. vol. 149; p. 501.
- Gases and separation of air into commercial oxygen and nitrogen, Apparatus for liquefaction of. G. A. Bobrick. No. 908,644; Jan. 5; Sp. p. 449; Gaz. vol. 138; p. 72.
- Gases and separation of air into commercial oxygen and nitrogen, Liquefaction of. G. A. Bobrick. No. 924,136; June 8; Sp. p. 2230; Gaz. vol. 143; p. 372.
- Gases and vapors, Apparatus for administering. G. von Ach. No. 925,442; June 22; Sp. p. 4931; Gaz. vol. 143; p. 871.
- Gases and vapors, Apparatus for separating particles of liquid from. M. Steger. No. 940,947; Nov. 23; Sp. p. 5533; Gaz. vol. 148; p. 937.
- Gases, Apparatus for cleaning. W. Anlen and H. C. Siebert. No. 941,841; Nov. 30; Sp. p. 7479; Gaz. vol. 148; p. 1257.
- Gases, Apparatus for disposing of noxious. W. H. Sartain. No. 942,935; Dec. 14; Sp. p. 1935; Gaz. vol. 149; p. 337.
- Gases, Apparatus for liquefaction of. G. A. Bobrick. No. 924,137; June 8; Sp. p. 2239; Gaz. vol. 143; p. 372.
- Gases, Apparatus for purifying burner-. J. B. F. Herreshoff. No. 940,596; Nov. 16; Sp. p. 4768; Gaz. vol. 148; p. 794.
- Gases, Apparatus for separating mixed. C. J. A. Fiesse. No. 933,243; Sept. 7; Sp. p. 489; Gaz. vol. 146; p. 75.
- Gases, Apparatus for testing mine-. J. Smith. No. 944,247; Dec. 21; Sp. p. 4731; Gaz. vol. 149; p. 810.
- Gases, Apparatus for the production of flame-extinguishing. R. Scheuffgen. No. 918,201; Apr. 13; Sp. p. 2522; Gaz. vol. 141; p. 450.
- Gases, Apparatus for treating distillation-. L. Wolf. No. 909,125; Jan. 5; Sp. p. 1429; Gaz. vol. 138; p. 228.
- Gases by electric discharges in air, Apparatus for generating. J. E. Mitchell. No. 932,161; Aug. 24; Sp. p. 5388; Gaz. vol. 145; p. 919.
- Gases by electricity, Apparatus for treating. I. Moscicki. No. 930,212; Aug. 3; Sp. p. 1215; Gaz. vol. 145; p. 200.
- Gases, Composition for oxidizing and purifying explosion-. H. Walker. No. 925,670; June 22; Sp. p. 5385; Gaz. vol. 143; p. 943.
- Gases containing sulfur dioxide, Purifying. H. Hezeler and N. L. Heinz. No. 931,868; Aug. 24; Sp. p. 4743; Gaz. vol. 145; p. 821.
- Gases discharged from compressors, Device for utilizing the heat of. F. P. Moran. No. 929,460; July 27; Sp. p. 5715; Gaz. vol. 144; p. 1002.
- Gases electrically, Treating. I. Moscicki. No. 933,094; Sept. 7; Sp. p. 121; Gaz. vol. 146; p. 20.
- Gases for general anesthesia, Apparatus for generating and administering. C. R. Cummins. No. 912,231; Feb. 9; Sp. p. 2438; Gaz. vol. 139; p. 421.
- Gases in the atmosphere, Apparatus for detecting and indicating. T. Groesbeck. No. 943,015; Dec. 14; Sp. p. 2128; Gaz. vol. 149; p. 364.
- Gases into liquids, Apparatus for introducing. S. P. A. Wenström. No. 913,596; Feb. 23; Sp. p. 5322; Gaz. vol. 139; p. 942.
- Gases, Obtaining by-products from. G. Hilgenstock. No. 928,974; July 27; Sp. p. 4699; Gaz. vol. 144; p. 843.
- Gases, Purification of burner-. J. B. F. Herreshoff. No. 940,595; Nov. 16; Sp. p. 4766; Gaz. vol. 148; p. 794.
- Gases, Purifying smelter-. P. Danckwardt. No. 918,424; Apr. 13; Sp. p. 2958; Gaz. vol. 141; p. 521.
- Gases, Removing carbon bisulfide from. M. Mayer and A. Fehlmann. No. 926,273; June 29; Sp. p. 6681; Gaz. vol. 143; p. 1179.
- Gases to gas-engines, Making and delivering mixed. B. Loomis and H. Pettibone. No. 912,699; Feb. 16; Sp. p. 3475; Gaz. vol. 139; p. 620.
- Gaseous bodies, Apparatus for mixing, measuring, and carbureting. A. Bouvier. No. 924,883; June 15; Sp. p. 3838; Gaz. vol. 143; p. 656.
- Gaseous-fluid compressor. D. E. Haire. No. 935,655; Oct. 5; Sp. p. 60; Gaz. vol. 147; p. 12.
- Gaseous fluid under pressure, Device for delivering. C. A. Clafin. No. 913,260; Feb. 23; Sp. p. 4617; Gaz. vol. 139; p. 828.
- Gaseous fuel, Apparatus for igniting. D. S. Brown, Jr., and F. C. Stinzing. No. 912,066; Feb. 9; Sp. p. 2147; Gaz. vol. 139; p. 370.
- Gaseous-fuel burners, Lighting attachment for. C. E. Heft. No. 925,808; June 22; Sp. p. 5713; Gaz. vol. 143; p. 989.
- Gaseous fumes or smoke, Treating corrosive. C. B. Sprague. No. 931,515; Aug. 17; Sp. p. 3980; Gaz. vol. 145; p. 686.
- Gaseous mixtures, Apparatus for separating the constituent elements of. E. Nazza. No. 940,885; Nov. 23; Sp. p. 5403; Gaz. vol. 148; p. 916.
- Gasket. C. I. E. Mastin. No. 935,387; Sept. 28; Sp. p. 4854; Gaz. vol. 146; p. 858.
- Gasket and its manufacture. W. A. Lorenz. No. 930,297; Aug. 3; Sp. p. 1365; Gaz. vol. 145; p. 226.
- Gasket, Metallic. P. D. Shade. No. 908,893; Jan. 5; Sp. p. 954; Gaz. vol. 138; p. 152.
- Gasket or packing. C. H. Van Nostrand. No. 916,805; Mar. 30; Sp. p. 6354; Gaz. vol. 140; p. 1136.
- Gaskets, Manufacture of. W. A. Lorenz. No. 929,679; Aug. 3; Sp. p. 75; Gaz. vol. 145; p. 15.
- Gasolene apparatus, Storage. H. E. Grant. No. 939,596; Nov. 9; Sp. p. 2555; Gaz. vol. 148; p. 419.
- Gasolene-burner. W. Whelan. No. 918,622; Apr. 20; Sp. p. 3407; Gaz. vol. 141; p. 615.
- Gasolene-engine. G. H. Marquardt. No. 922,009; May 18; Sp. p. 3959; Gaz. vol. 142; p. 692.
- Gasolene-engine. H. J. Wegner. No. 923,093; May 25; Sp. p. 6182; Gaz. vol. 142; p. 1072.
- Gasolene-engine. J. C. Johnson. No. 940,027; Nov. 16; Sp. p. 3467; Gaz. vol. 148; p. 599.
- Gasolene-engine, Rotary. D. H. Thompson. No. 912,332; Feb. 16; Sp. p. 2703; Gaz. vol. 139; p. 494.
- Gasolene-supply, Strainer and separator for. G. M. Schebler. No. 939,551; Nov. 9; Sp. p. 2438; Gaz. vol. 148; p. 404.
- Gastroscope. M. Sussmann. No. 944,830; Dec. 28; Sp. p. 6042; Gaz. vol. 149; p. 1039.
- Gate: See Automatic gate; Car-gate; Car-end-gate; Drawbridge-gate; End-gate; Farm-gate; Flood-gate; Head-gate; Latch-gate; Oil-gate; Oscillating gate; Railway-gate; Railway-crossing-gate; Sliding-gate; Starting and separating gate; Swing-gate; Tilting gate; Water-gate.
- Gate. J. W. Elliott. No. 908,550; Jan. 5; Sp. p. 248; Gaz. vol. 138; p. 42.
- Gate. I. Lester. No. 909,194; Jan. 12; Sp. p. 1576; Gaz. vol. 138; p. 284.
- Gate. I. A. Wesson. No. 912,217; Feb. 9; Sp. p. 2413; Gaz. vol. 139; p. 417.
- Gate. W. A. Ford. No. 913,120; Feb. 23; Sp. p. 4325; Gaz. vol. 139; p. 782.
- Gate. P. H. Wilson. No. 913,444; Feb. 23; Sp. p. 4982; Gaz. vol. 139; p. 892.
- Gate. W. P. Sowers. No. 913,574; Feb. 23; Sp. p. 5281; Gaz. vol. 139; p. 935.
- Gate. H. K. Tabler. No. 913,581; Feb. 23; Sp. p. 5295; Gaz. vol. 139; p. 937.
- Gate. J. Flinner. No. 913,717; Mar. 2; Sp. p. 85; Gaz. vol. 140; p. 15.
- Gate. C. B. Baumgartner. No. 915,407; Mar. 16; Sp. p. 3610; Gaz. vol. 140; p. 628.
- Gate. T. J. Van Pelt. No. 915,911; Mar. 23; Sp. p. 4635; Gaz. vol. 140; p. 822.
- Gate. E. W. Vest. No. 916,807; Mar. 30; Sp. p. 6357; Gaz. vol. 140; p. 1136.
- Gate. G. W. Hurst. No. 916,873; Mar. 30; Sp. p. 6482; Gaz. vol. 140; p. 1158.
- Gate. F. Wright. No. 917,233; Apr. 6; Sp. p. 553; Gaz. vol. 141; p. 97.
- Gate. O. J. Wyman. No. 917,234; Apr. 6; Sp. p. 555; Gaz. vol. 141; p. 97.
- Gate. D. Fasold. No. 917,275; Apr. 6; Sp. p. 651; Gaz. vol. 141; p. 111.
- Gate. R. Scott. No. 917,496; Apr. 6; Sp. p. 1055; Gaz. vol. 141; p. 185.
- Gate. J. J. Plowman. No. 918,363; Apr. 13; Sp. p. 2839; Gaz. vol. 141; p. 502.
- Gate. C. A. Eidsmoe. No. 918,981; Apr. 20; Sp. p. 4217; Gaz. vol. 141; p. 737.
- Gate. G. A. Noble. No. 919,064; Apr. 20; Sp. p. 4362; Gaz. vol. 141; p. 762.
- Gate. E. S. Brooks. No. 919,122; Apr. 20; Sp. p. 4470; Gaz. vol. 141; p. 780.
- Gate. J. Finch. No. 920,305; May 4; Sp. p. 455; Gaz. vol. 142; p. 70.
- Gate. J. S. Anderson. No. 920,810; May 4; Sp. p. 1455; Gaz. vol. 142; p. 235.
- Gate. Z. T. Cox. No. 922,461; May 25; Sp. p. 4857; Gaz. vol. 142; p. 868.
- Gate. J. M. Seay. No. 923,715; June 1; Sp. p. 1326; Gaz. vol. 143; p. 205.
- Gate. A. B. Pickett. No. 923,884; June 8; Sp. p. 1755; Gaz. vol. 143; p. 292.
- Gate. S. A. D. Heston. No. 924,067; June 8; Sp. p. 2097; Gaz. vol. 143; p. 350.
- Gate. G. W. Texler. No. 925,668; June 22; Sp. p. 5383; Gaz. vol. 143; p. 942.
- Gate. F. Adams. No. 925,977; June 22; Sp. p. 6045; Gaz. vol. 143; p. 1045.
- Gate. H. F. Liles. No. 926,010; June 22; Sp. p. 6105; Gaz. vol. 143; p. 1056.
- Gate. I. D. Cady. No. 927,221; July 6; Sp. p. 1072; Gaz. vol. 144; p. 174.
- Gate. J. B. Bullock. No. 927,633; July 13; Sp. p. 1936; Gaz. vol. 144; p. 339.
- Gate. M. Effland. No. 927,779; July 13; Sp. p. 2233; Gaz. vol. 144; p. 387.
- Gate. A. V. Rowe. No. 928,798; July 20; Sp. p. 4341; Gaz. vol. 144; p. 756.
- Gate. N. J. McAdams. No. 929,462; July 27; Sp. p. 5717; Gaz. vol. 144; p. 1003.
- Gate. J. P. Dahlen. No. 929,856; Aug. 3; Sp. p. 442; Gaz. vol. 145; p. 73.
- Gate. D. Riley, Jr. No. 930,418; Aug. 10; Sp. p. 1000; Gaz. vol. 145; p. 290.
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- Gate. J. E. Smith. No. 933,677; Sept. 7; Sp. p. 1451; Gaz. vol. 146; p. 219.
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 Gate and door. H. P. Latham. No. 935,374; Sept. 28; Sp. p. 4826; Gaz. vol. 146; p. 854.  
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 Gate automatic constant discharge. Water. F. W. Hanna. No. 911,720; Feb. 9; Sp. p. 1387; Gaz. vol. 139; p. 258.  
 Gate-fastener. D. H. Tschirley. No. 912,333; Feb. 16; Sp. p. 2709; Gaz. vol. 139; p. 494.  
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 Gate, Folding. H. M. Coomes. No. 917,713; Apr. 6; Sp. p. 1460; Gaz. vol. 141; p. 256.  
 Gate for bins and other similar receptacles. A. E. Brown. No. 917,746; Apr. 13; Sp. p. 1551; Gaz. vol. 141; p. 294.  
 Gate-frame hinge. A. S. Mackey. No. 914,437; Mar. 9; Sp. p. 1661; Gaz. vol. 140; p. 284.  
 Gate-hook. C. L. Smith. No. 940,205; Nov. 16; Sp. p. 3906; Gaz. vol. 148; p. 663.  
 Gate-locking device, Head-. C. D. Butchart. No. 918,002; Apr. 13; Sp. p. 2127; Gaz. vol. 141; p. 382.  
 Gate-opener. F. A. Schuster. No. 922,963; May 25; Sp. p. 5916; Gaz. vol. 142; p. 1031.  
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 Gate-operating attachment. J. B. Faulkner. No. 940,306; Nov. 16; Sp. p. 4132; Gaz. vol. 148; p. 697.  
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 Gate-operating mechanism. J. E. Buckman. No. 910,782; Jan. 26; Sp. p. 4816; Gaz. vol. 138; p. 871.  
 Gate-operating mechanism, Automatic. D. W. Patterson. No. 914,505; Mar. 9; Sp. p. 1783; Gaz. vol. 140; p. 306.  
 Gate stop, Water-. G. E. Kellar. No. 913,147; Feb. 23; Sp. p. 4383; Gaz. vol. 139; p. 792.  
 Gate, Swinging. R. M. Olson. No. 916,363; Mar. 23; Sp. p. 5472; Gaz. vol. 140; p. 971.  
 Gate, Swinging. W. Stewart, Jr. No. 916,801; Mar. 30; Sp. p. 6348; Gaz. vol. 140; p. 1134.  
 Gates, &c., Means for opening and closing. C. E. Barnes. No. 912,058; Feb. 9; Sp. p. 2133; Gaz. vol. 139; p. 368.  
 Gathering-machine. F. S. Barnes. No. 932,670; Aug. 31; Sp. p. 6447; Gaz. vol. 145; p. 1112.  
 Gear. B. F. Sparr. No. 937,111; Oct. 19; Sp. p. 3127; Gaz. vol. 147; p. 550.  
 Gear apparatus, Variable-speed transmission. C. A. Morris. No. 943,985; Dec. 21; Sp. p. 4197; Gaz. vol. 149; p. 726.  
 Gear, Carriage and wagon running. E. B. Sheridan. No. 912,189; Feb. 9; Sp. p. 2362; Gaz. vol. 139; p. 408.  
 Gear-case. T. L. Kennedy. No. 932,784; Aug. 31; Sp. p. 6694; Gaz. vol. 145; p. 1149.  
 Gear-case. G. W. Bandy. No. 935,351; Sept. 28; Sp. p. 4793; Gaz. vol. 146; p. 847.  
 Gear-casing. B. Rosenberger. No. 929,329; July 27; Sp. p. 5490; Gaz. vol. 144; p. 962.  
 Gear, Chain driving. E. Morse. (Reissue.) No. 12,912; Jan. 19; Sp. p. 4202; Gaz. vol. 138; p. 750.  
 Gear, Change-speed. P. Evans. No. 931,288; Aug. 17; Sp. p. 3536; Gaz. vol. 145; p. 610.  
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 Gear, Change-speed and reversing. L. Wirtz. No. 918,631; Apr. 20; Sp. p. 3431; Gaz. vol. 141; p. 619.  
 Gear, Compensating. E. J. Gould. No. 921,978; May 18; Sp. p. 3890; Gaz. vol. 142; p. 681.  
 Gear-controlling device, Transmission-. A. F. Krause. No. 931,770; Aug. 24; Sp. p. 4551; Gaz. vol. 145; p. 790.  
 Gear-cutting machine. W. B. Yates. No. 912,349; Feb. 16; Sp. p. 2744; Gaz. vol. 139; p. 500.  
 Gear-cutting machine. T. C. Dill. No. 938,304; Oct. 26; Sp. p. 5671; Gaz. vol. 147; p. 966.  
 Gear-cutting-machine attachment. E. J. Flather. No. 936,879; Oct. 12; Sp. p. 2662; Gaz. vol. 147; p. 443.  
 Gear-cuttings, Hob for. E. J. Lees. No. 924,679; June 15; Sp. p. 3411; Gaz. vol. 143; p. 587.  
 Gear for hoisting-machines and analogous uses, Reverse-. A. Lambert. No. 913,900; Mar. 2; Sp. p. 497; Gaz. vol. 140; p. 80.  
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 Gear for traction-engines. A. Harrold. (Reissue.) No. 12,980; Mar. 23; Sp. p. 5565; Gaz. vol. 140; p. 986.  
 Gear, Friction draft-. T. L. McKeen. No. 943,314; Dec. 14; Sp. p. 2754; Gaz. vol. 149; p. 465.  
 Gear, Friction-transmission. F. J. and E. D. Rice and A. G. Barrett. No. 914,977; Mar. 9; Sp. p. 2734; Gaz. vol. 140; p. 460.  
 Gear-generating machine. R. Wallwork. No. 915,811; Mar. 23; Sp. p. 4449; Gaz. vol. 140; p. 790.  
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 Gear mechanism, Draft-. D. F. Crawford. No. 915,272; Mar. 16; Sp. p. 3342; Gaz. vol. 140; p. 584.  
 Gear mechanism, Sliding-. M. Russell, Jr. No. 935,328; Sept. 28; Sp. p. 4731; Gaz. vol. 146; p. 839.  
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 Gear-operating device. F. Schorno. No. 912,494; Feb. 16; Sp. p. 3028; Gaz. vol. 139; p. 548.  
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 Gear, Reversing-. A. N. Woods. No. 913,445; Feb. 23; Sp. p. 4984; Gaz. vol. 139; p. 892.  
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 Gear, Self-locking drive-. F. Hendler. No. 922,138; May 18; Sp. p. 4197; Gaz. vol. 142; p. 733.  
 Gear-shifter. C. L. Rayfield. No. 929,012; July 27; Sp. p. 4781; Gaz. vol. 144; p. 855.  
 Gear-shipper for farming and similar machinery. W. N. Park. No. 919,067; Apr. 20; Sp. p. 4366; Gaz. vol. 141; p. 762.  
 Gear, Short-turn running-. V. K. Kline. No. 917,457; Apr. 6; Sp. p. 990; Gaz. vol. 141; p. 172.  
 Gear, Speed-changing. R. E. Lincoln. No. 917,624; Apr. 6; Sp. p. 1286; Gaz. vol. 141; p. 227.  
 Gear-tooth-chamfering apparatus. R. B. Weaver. No. 909,719; Jan. 12; Sp. p. 2599; Gaz. vol. 138; p. 460.  
 Gear-train, Double-pinion toothed. W. Trewella. No. 940,091; Nov. 16; Sp. p. 3646; Gaz. vol. 148; p. 622.  
 Gear, Transmission-. M. L. R. Howard and J. M. McGeorge. No. 913,503; Feb. 23; Sp. p. 5102; Gaz. vol. 139; p. 911.  
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 Gear, Variable-speed. G. J. Dallison. No. 913,623; Feb. 23; Sp. p. 5383; Gaz. vol. 139; p. 951.  
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 Gear, Variable-speed. H. E. Williams. No. 928,486; July 20; Sp. p. 3713; Gaz. vol. 144; p. 653.  
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- Gear-wheel. N. D. Levin. No. 928,676; July 20; Sp. p. 4110; Gaz. vol. 144; p. 716.
- Gear-wheel. N. C. Naylor. No. 929,781; Aug. 3; Sp. p. 318; Gaz. vol. 145; p. 54.
- Gear-wheels according to pattern, Machine for producing. H. Lehman. No. 926,989; July 6; Sp. p. 578; Gaz. vol. 144; p. 95.
- Gear-wheels, Manufacture of. F. A. Brun. No. 935,636; Oct. 5; Sp. p. 19; Gaz. vol. 147; p. 5.
- Gear, Yielding. R. L. Raymer. No. 919,767; Apr. 27; Sp. p. 5999; Gaz. vol. 141; p. 1031.
- Gears, Adjustable device for yieldingly holding beveled. E. J. Loring. No. 937,831; Oct. 26; Sp. p. 4654; Gaz. vol. 147; p. 805.
- Gears, Cutting-. W. F. Zimmermann. No. 915,923; Mar. 23; Sp. p. 4657; Gaz. vol. 140; p. 826.
- Gears, Draw-bar and yoke attachment for draft-. C. L. Bundy and J. J. Acker. No. 939,390; Nov. 9; Sp. p. 2101; Gaz. vol. 148; p. 351.
- Gears, Draw-bar and yoke fastening for draft-. G. O. Hammond. No. 909,085; Jan. 5; Sp. p. 1340; Gaz. vol. 138; p. 214.
- Gears, Forming herring-bone. N. A. Christensen. No. 914,700; Mar. 9; Sp. p. 2209; Gaz. vol. 140; p. 371.
- Gears, Means for casting. J. S. Barnes. No. 914,474; Mar. 9; Sp. p. 1730; Gaz. vol. 140; p. 297.
- Gears, &c., upon shafts, Machine for removing from and replacing. C. Remelius. No. 909,671; Jan. 12; Sp. p. 2493; Gaz. vol. 138; p. 442.
- Gearing. A. T. Brown. No. 909,984; Jan. 19; Sp. p. 3129; Gaz. vol. 138; p. 579.
- Gearing. G. F. Press and J. W. Lewis. No. 910,574; Jan. 26; Sp. p. 4394; Gaz. vol. 138; p. 805.
- Gearing. R. Milne. No. 913,417; Feb. 23; Sp. p. 4931; Gaz. vol. 139; p. 882.
- Gearing. T. J. Winans. No. 913,652; Feb. 23; Sp. p. 5457; Gaz. vol. 139; p. 961.
- Gearing. E. B. Zook. No. 916,521; Mar. 30; Sp. p. 5844; Gaz. vol. 140; p. 1048.
- Gearing. E. A. Jeffreys and W. B. Sayers. No. 919,359; Apr. 27; Sp. p. 5146; Gaz. vol. 141; p. 893.
- Gearing. W. L. Schellenbach. No. 920,664; May 4; Sp. p. 1154; Gaz. vol. 142; p. 187.
- Gearing. F. J. Zecher. No. 921,937; May 18; Sp. p. 3797; Gaz. vol. 142; p. 668.
- Gearing. G. Westinghouse. No. 922,827; May 25; Sp. p. 5633; Gaz. vol. 142; p. 987.
- Gearing. W. Sweet. No. 923,382; June 1; Sp. p. 616; Gaz. vol. 143; p. 90.
- Gearing. O. Schaerer. No. 923,711; June 1; Sp. p. 1321; Gaz. vol. 143; p. 204.
- Gearing. E. C. Gesche. No. 925,769; June 22; Sp. p. 5631; Gaz. vol. 143; p. 976.
- Gearing. A. N. Adams. No. 926,919; July 6; Sp. p. 448; Gaz. vol. 144; p. 72.
- Gearing. T. H. M. Van Swieten. No. 927,385; July 6; Sp. p. 1365; Gaz. vol. 144; p. 227.
- Gearing. J. W. Reams. No. 930,562; Aug. 10; Sp. p. 1930; Gaz. vol. 145; p. 341.
- Gearing. E. Henrikson. No. 931,761; Aug. 24; Sp. p. 4528; Gaz. vol. 145; p. 787.
- Gearing. J. Ehlin. No. 931,850; Aug. 24; Sp. p. 4706; Gaz. vol. 145; p. 815.
- Gearing. W. J. Schoonover. No. 933,672; Sept. 7; Sp. p. 1444; Gaz. vol. 146; p. 217.
- Gearing. G. A. Steinle. No. 934,105; Sept. 14; Sp. p. 2320; Gaz. vol. 146; p. 380.
- Gearing. H. Wolke. No. 936,264; Oct. 5; Sp. p. 1362; Gaz. vol. 147; p. 210.
- Gearing. J. W. Belyeu. No. 936,291; Oct. 12; Sp. p. 1417; Gaz. vol. 147; p. 246.
- Gearing. J. S. Smart. No. 936,376; Oct. 12; Sp. p. 1624; Gaz. vol. 147; p. 275.
- Gearing. A. D. Williamson. No. 938,805; Nov. 2; Sp. p. 764; Gaz. vol. 148; p. 123.
- Gearing. G. O. Leopold. No. 939,042; Nov. 2; Sp. p. 1275; Gaz. vol. 148; p. 205.
- Gearing. J. G. Morrison. No. 939,153; Nov. 2; Sp. p. 1506; Gaz. vol. 148; p. 244.
- Gearing. A. D. Williamson. No. 939,179; Nov. 2; Sp. p. 1560; Gaz. vol. 148; p. 253.
- Gearing. H. C. Schroeder. No. 940,200; Nov. 16; Sp. p. 3890; Gaz. vol. 148; p. 661.
- Gearing. E. E. Swarthout. No. 940,748; Nov. 23; Sp. p. 5113; Gaz. vol. 148; p. 871.
- Gearing. H. M. Baker, Jr. No. 942,609; Dec. 7; Sp. p. 1205; Gaz. vol. 149; p. 197.
- Gearing. J. C. Potter and J. Johnston. No. 942,843; Dec. 7; Sp. p. 1670; Gaz. vol. 149; p. 273.
- Gearing. A. E. Newton. No. 943,042; Dec. 14; Sp. p. 2200; Gaz. vol. 149; p. 374.
- Gearing. F. Diehl. No. 944,635; Dec. 28; Sp. p. 4914; Gaz. vol. 149; p. 866.
- Gearing. C. L. Robbins. No. 944,635; Dec. 28; Sp. p. 5616; Gaz. vol. 149; p. 974.
- Gearing and reversing mechanism therefor, Differential. D. E. Ross. No. 929,884; Aug. 3; Sp. p. 560; Gaz. vol. 145; p. 89.
- Gearing, Automatic change-speed. L. Badois. No. 918,258; Apr. 13; Sp. p. 2645; Gaz. vol. 141; p. 469.
- Gearing, Belt-. M. A. Baker. No. 920,519; May 4; Sp. p. 863; Gaz. vol. 142; p. 139.
- Gearing, Change-speed. H. Salmond. No. 920,660; May 4; Sp. p. 1147; Gaz. vol. 142; p. 186.
- Gearing, Change-speed. L. A. Saussard. No. 932,814; Aug. 31; Sp. p. 6751; Gaz. vol. 145; p. 1158.
- Gearing, Change-speed. A. M. Wolf. No. 933,970; Sept. 14; Sp. p. 1851; Gaz. vol. 146; p. 306.
- Gearing, Change-speed. C. Cotta. No. 934,505; Sept. 21; Sp. p. 3093; Gaz. vol. 146; p. 539.
- Gearing, Change-speed. F. D. Pouch. No. 941,727; Nov. 30; Sp. p. 7216; Gaz. vol. 148; p. 1217.
- Gearing, Change-speed. L. W. Anderson and A. R. Murray. No. 943,621; Dec. 14; Sp. p. 3427; Gaz. vol. 149; p. 572.
- Gearing, Changeable-speed. W. Morrow. No. 914,860; Mar. 9; Sp. p. 2538; Gaz. vol. 140; p. 424.
- Gearing, Changeable-speed. W. Scott. No. 928,705; July 20; Sp. p. 4160; Gaz. vol. 144; p. 725.
- Gearing, Changeable-speed. E. A. Johnston. No. 932,611; Aug. 31; Sp. p. 6332; Gaz. vol. 145; p. 1092.
- Gearing, Clutch-. G. A. Steinle. No. 915,900; Mar. 23; Sp. p. 4620; Gaz. vol. 140; p. 819.
- Gearing, Controlling mechanism for variable-speed. J. F. Warner. No. 927,698; July 13; Sp. p. 2078; Gaz. vol. 144; p. 361.
- Gearing, Differential drive-. N. M. Anderson. No. 908,722; Jan. 5; Sp. p. 626; Gaz. vol. 138; p. 97.
- Gearing, Double back. J. C. Pfanzner. No. 942,185; Dec. 7; Sp. p. 339; Gaz. vol. 149; p. 52.
- Gearing, Drive-. N. Frye. No. 926,557; June 29; Sp. p. 7193; Gaz. vol. 143; p. 1272.
- Gearing for hoisting-drums, Duplex. A. Lambert. No. 913,901; Mar. 2; Sp. p. 500; Gaz. vol. 140; p. 81.
- Gearing for indexing mechanisms. E. H. Browning. No. 930,934; Aug. 10; Sp. p. 2700; Gaz. vol. 145; p. 462.
- Gearing for machine-tools. H. M. Darling and W. Runge. No. 917,015; Apr. 6; Sp. p. 102; Gaz. vol. 141; p. 22.
- Gearing for stentering-machines. A. E. Simpson. No. 939,959; Nov. 9; Sp. p. 3317; Gaz. vol. 148; p. 547.
- Gearing, Friction-. W. R. Jenkins. No. 912,131; Feb. 9; Sp. p. 2261; Gaz. vol. 139; p. 391.
- Gearing, Friction-. G. W. Wells. No. 917,691; Apr. 6; Sp. p. 1414; Gaz. vol. 141; p. 249.
- Gearing, Friction-. J. L. Graham. No. 940,006; Nov. 16; Sp. p. 3429; Gaz. vol. 148; p. 591.
- Gearing, Friction-. G. H. Chisholm. No. 941,856; Nov. 30; Sp. p. 7508; Gaz. vol. 148; p. 1262.
- Gearing, Friction transmission-. C. M. Leech. No. 910,136; Jan. 19; Sp. p. 3428; Gaz. vol. 138; p. 628.
- Gearing, Frictional. L. C. Arnaud. No. 939,653; Nov. 9; Sp. p. 2664; Gaz. vol. 148; p. 440.
- Gearing locking mechanism, Transmission-. F. Schorno. No. 915,225; Mar. 16; Sp. p. 3255; Gaz. vol. 140; p. 569.
- Gearing, Motor-vehicle. F. Everett. No. 919,564; Apr. 27; Sp. p. 5605; Gaz. vol. 141; p. 963.
- Gearing, Mounting for speed-changing. W. M. Bradshaw. No. 930,036; Aug. 3; Sp. p. 866; Gaz. vol. 145; p. 140.
- Gearing, Multiple-speed. N. B. Runnals. No. 912,418; Feb. 16; Sp. p. 2880; Gaz. vol. 139; p. 522.
- Gearing, Power-transmission. H. D. Williams. No. 908,529; Jan. 5; Sp. p. 202; Gaz. vol. 138; p. 35.
- Gearing, Power-transmission. G. Milner. No. 910,215; Jan. 19; Sp. p. 3609; Gaz. vol. 138; p. 655.
- Gearing, Power-transmission. R. W. Coffee. No. 918,658; Apr. 20; Sp. p. 3515; Gaz. vol. 141; p. 628.
- Gearing, Power-transmission and reversing. F. H. Crane and C. A. King. No. 937,771; Oct. 26; Sp. p. 4537; Gaz. vol. 147; p. 786.
- Gearing, Reverse-. F. G. Johnson. No. 920,065; Apr. 27; Sp. p. 6644; Gaz. vol. 141; p. 1130.
- Gearing, Reversible transmission-. M. W. Kouns. No. 922,599; May 25; Sp. p. 5151; Gaz. vol. 142; p. 913.
- Gearing, Reversing-. B. S. Truxal. No. 929,520; July 27; Sp. p. 5819; Gaz. vol. 144; p. 1022.
- Gearing, Reversing-. C. R. Alsop. No. 936,072; Oct. 5; Sp. p. 1000; Gaz. vol. 147; p. 151.
- Gearing, Reversing-. W. A. Slusher. No. 937,878; Oct. 26; Sp. p. 4756; Gaz. vol. 147; p. 822.
- Gearing, Reversing-. T. L. McCaskill. No. 940,889; Nov. 23; Sp. p. 5415; Gaz. vol. 148; p. 917.
- Gearing, Speed-. J. S. Barnes. No. 928,240; July 20; Sp. p. 3195; Gaz. vol. 144; p. 570.
- Gearing, Speed-change. G. K. Garvin and E. J. McClellan. No. 922,880; May 25; Sp. p. 5761; Gaz. vol. 142; p. 1005.
- Gearing, Tester-power. H. L. Scott. No. 924,693; June 15; Sp. p. 3440; Gaz. vol. 143; p. 592.
- Gearing, Three-speed transmission-. R. W. Coffee. No. 918,657; Apr. 20; Sp. p. 3512; Gaz. vol. 141; p. 628.
- Gearing, Transmission-. E. E. Larson. No. 917,463; Apr. 6; Sp. p. 997; Gaz. vol. 141; p. 174.
- Gearing, Transmission-. C. E. Henriod. No. 917,729; Apr. 6; Sp. p. 1493; Gaz. vol. 141; p. 261.
- Gearing, Transmission-. D. E. Washington. No. 918,936; Apr. 20; Sp. p. 4113; Gaz. vol. 141; p. 722.
- Gearing, Transmission-. J. M. Van Dyke and F. R. Rowell. No. 921,754; May 18; Sp. p. 3414; Gaz. vol. 142; p. 603.
- Gearing, Transmission-. G. Flessa. No. 928,954; July 27; Sp. p. 4654; Gaz. vol. 144; p. 835.
- Gearing, Transmission-. W. E. Jenkins. No. 934,731; Sept. 21; Sp. p. 3534; Gaz. vol. 146; p. 615.
- Gearing, Transmission-. C. W. Parker. No. 941,034; Nov. 23; Sp. p. 5721; Gaz. vol. 148; p. 965.
- Gearing, Transmission-. C. W. Parker. No. 941,035; Nov. 23; Sp. p. 5724; Gaz. vol. 148; p. 966.
- Gearing, Transmission-. A. R. Behnke. No. 941,056; Nov. 23; Sp. p. 5766; Gaz. vol. 148; p. 973.
- Gearing, Transmission-. C. B. Kurtz. No. 942,266; Dec. 7; Sp. p. 504; Gaz. vol. 149; p. 79.
- Gearing, Transmission-. L. C. Norton. No. 942,406; Dec. 7; Sp. p. 782; Gaz. vol. 149; p. 127.

*Alphabetical list of inventions—Continued.*

- Gearing, Transmission- W. E. Jenkins. No. 944,872; Dec. 28; Sp. p. 6132; Gaz. vol. 149; p. 1054.  
 Gearing, Variable-speed. S. T. Lewis. No. 909,099; Jan. 5; Sp. p. 1368; Gaz. vol. 138; p. 219.  
 Gearing, Variable-speed. G. Chédru. No. 924,889; June 15; Sp. p. 3860; Gaz. vol. 143; p. 658.  
 Gearing, Variable-speed. W. A. Widmer. No. 928,568; July 20; Sp. p. 3885; Gaz. vol. 144; p. 679.  
 Gearing, Variable-speed. J. S. Barnes. No. 928,894; July 20; Sp. p. 4535; Gaz. vol. 144; p. 790.  
 Gearing, Variable-speed. J. Heim. No. 929,425; July 27; Sp. p. 5650; Gaz. vol. 144; p. 992.  
 Gearing, Variable-speed and reversing. A. C. G. Smith and E. H. J. C. Gillett. No. 924,847; June 15; Sp. p. 3763; Gaz. vol. 143; p. 644.  
 Gelatoid thermoplastic compound. B. B. Goldsmith. No. 925,328; June 15; Sp. p. 4701; Gaz. vol. 143; p. 803.  
 Gem cutting and polishing machine. G. S. R. McMullen. No. 925,016; June 15; Sp. p. 4122; Gaz. vol. 143; p. 701.  
 Gem-cutting machine. C. G. Hull. No. 943,191; Dec. 14; Sp. p. 2495; Gaz. vol. 149; p. 423.  
 Gem-setting device. R. Kirkwood. No. 919,596; Apr. 27; Sp. p. 5674; Gaz. vol. 141; p. 975.  
 Generator: See Acetylene-generator; Electric generator; Electric-current generator; Engine gas-generator; Gas-generator; Heat-generator; Heat and smoke generator; Hydrogen-sulph generator; Induction-generator; Magneto-generator; Ozone-generator; Power-generator; Power fluid-generator; Pressure-generator; Pyro-electric generator; Steam-generator; Turbo-generator; Vapor-generator.  
 Generator. M. W. Pitner. No. 911,440; Feb. 2; Sp. p. 797; Gaz. vol. 139; p. 139.  
 Generator and mixer. E. R. Wilson. No. 939,779; Nov. 9; Sp. p. 2938; Gaz. vol. 148; p. 484.  
 Generator feeding device, Acetylene-. J. K. Rush. No. 908,700; Jan. 5; Sp. p. 571; Gaz. vol. 138; p. 89.  
 Generators, Sludge-faucet for carbide-gas. F. L. H. Sims. No. 936,375; Oct. 12; Sp. p. 1623; Gaz. vol. 147; p. 275.  
 Generators to secure constant potential, Device for regulating the speed of. A. L. Parker. No. 935,051; Sept. 28; Sp. p. 4179; Gaz. vol. 146; p. 748.  
 Geographic-mathematical apparatus. C. A. Iffert. No. 916,874; Mar. 30; Sp. p. 6484; Gaz. vol. 140; p. 1158.  
 Geography-illustrator, Mathematical. W. H. Keller. No. 926,064; June 22; Sp. p. 6221; Gaz. vol. 143; p. 1074.  
 Gin-feeder, Pneumatic. J. W. Gregory. No. 925,435; June 15; Sp. p. 4905; Gaz. vol. 143; p. 837.  
 Gin-saw cleaner. A. N. Tumlin. No. 942,800; Dec. 7; Sp. p. 1579; Gaz. vol. 149; p. 260.  
 Girder. E. A. Moccetti. No. 910,837; Jan. 26; Sp. p. 4923; Gaz. vol. 138; p. 888.  
 Glass: See Boiler gage-glass; Drinking-glass; Gage-glass; Measuring-glass; Shooting glass; Water-glass.  
 Glass and concrete construction. W. D. Bradley. No. 934,136; Sept. 14; Sp. p. 2395; Gaz. vol. 146; p. 392.  
 Glass and dish cleaner. W. S. Callery. No. 910,641; Jan. 26; Sp. p. 4548; Gaz. vol. 138; p. 827.  
 Glass, Annealing and hardening. J. J. Farling. No. 928,860; July 20; Sp. p. 4454; Gaz. vol. 144; p. 777.  
 Glass, Apparatus for making sheet or plate. J. J. Quertinnont. No. 936,664; Oct. 12; Sp. p. 2247; Gaz. vol. 147; p. 373.  
 Glass, Apparatus for making wire-. R. A. B. Walsh. No. 940,844; Nov. 23; Sp. p. 5327; Gaz. vol. 148; p. 903.  
 Glass articles, Fire glazing or finishing thereof. M. Cummins. No. 916,959; Mar. 30; Sp. p. 6670; Gaz. vol. 140; p. 1188.  
 Glass articles, Machine for making. W. E. Bock. No. 919,120; Apr. 20; Sp. p. 4463; Gaz. vol. 141; p. 780.  
 Glass articles, Machine for making hollow. G. W. Graves and J. Whittemore. No. 923,261; June 1; Sp. p. 307; Gaz. vol. 143; p. 48.  
 Glass articles, Machine for making hollow. P. T. Sievert. No. 936,822; Oct. 12; Sp. p. 2545; Gaz. vol. 147; p. 425.  
 Glass articles, Making pressed-. O. A. Mygatt. No. 925,824; June 22; Sp. p. 5745; Gaz. vol. 143; p. 995.  
 Glass articles, Manufacture of. C. B. Lawton. No. 942,651; Dec. 7; Sp. p. 1292; Gaz. vol. 149; p. 211.  
 Glass being drawn, Device for maintaining the width of sheets of. I. W. Colburn. No. 940,675; Nov. 23; Sp. p. 4954; Gaz. vol. 148; p. 846.  
 Glass, Beveling. C. L. Goehring and W. Troche. No. 917,937; Apr. 13; Sp. p. 1969; Gaz. vol. 141; p. 358.  
 Glass-beveling machine. F. Cotterell. No. 922,087; May 18; Sp. p. 4109; Gaz. vol. 142; p. 718.  
 Glass-beveling machine or apparatus. W. O. Bailey. No. 937,912; Oct. 26; Sp. p. 4821; Gaz. vol. 147; p. 833.  
 Glass-beveling machine, Round-. G. P. and J. Gaire. No. 915,284; Mar. 16; Sp. p. 3364; Gaz. vol. 140; p. 587.  
 Glass-blowing apparatus. A. J. Bates. No. 913,190; Feb. 23; Sp. p. 4472; Gaz. vol. 139; p. 805.  
 Glass-blowing machine. H. Hilde. No. 915,960; Mar. 23; Sp. p. 4725; Gaz. vol. 140; p. 838.  
 Glass-blowing machine. H. A. Schnelbach and E. J. Schatz. No. 922,342; May 18; Sp. p. 4599; Gaz. vol. 142; p. 799.  
 Glass-blowing machine. H. A. Schnelbach and H. A. Heupel. No. 929,330; July 27; Sp. p. 5491; Gaz. vol. 144; p. 962.  
 Glass-blowing machine. G. A. Macbeth and H. A. Schnelbach. No. 929,456; July 27; Sp. p. 5701; Gaz. vol. 144; p. 1001.  
 Glass bottle-necks and stoppers therefor, Grinding interchangeable ground-. C. M. Conradson. No. 911,809; Feb. 9; Sp. p. 1540; Gaz. vol. 139; p. 286.  
 Glass bottles and like articles, Machine for making. A. Philippoteaux. No. 944,691; Dec. 28; Sp. p. 5738; Gaz. vol. 149; p. 993.  
 Glass clamp, Plate-. L. Bartelstone. No. 927,092; July 6; Sp. p. 832; Gaz. vol. 144; p. 133.  
 Glass compound and making the same, Water-. R. Eberhard. No. 944,957; Dec. 28; Sp. p. 6288; Gaz. vol. 149; p. 1081.  
 Glass conveying and stacking machine. R. L. Frink. No. 916,945; Mar. 30; Sp. p. 6645; Gaz. vol. 140; p. 1184.  
 Glass-cutter. W. G. Stebbins. No. 911,342; Feb. 2; Sp. p. 623; Gaz. vol. 139; p. 107.  
 Glass-cutter. N. B. Keyes. No. 915,447; Mar. 16; Sp. p. 3686; Gaz. vol. 140; p. 642.  
 Glass-cutter. B. F. Baldwin. No. 915,818; Mar. 23; Sp. p. 4464; Gaz. vol. 140; p. 792.  
 Glass-cutter. J. W. Tucker. No. 942,152; Dec. 7; Sp. p. 276; Gaz. vol. 149; p. 42.  
 Glass-cutting machine. W. H. Hanson. No. 910,129; Jan. 19; Sp. p. 3416; Gaz. vol. 138; p. 626.  
 Glass-cutting machine. R. L. Frink. No. 921,652; May 11; Sp. p. 3210; Gaz. vol. 142; p. 548.  
 Glass-cutting machine. J. E. Graybill. No. 921,979; May 18; Sp. p. 3892; Gaz. vol. 142; p. 681.  
 Glass-cutting machine. A. L. Milentz. No. 933,481; Sept. 7; Sp. p. 1070; Gaz. vol. 146; p. 154.  
 Glass-cutting table. J. G. Green and V. A. Henry. No. 935,014; Sept. 28; Sp. p. 4101; Gaz. vol. 146; p. 735.  
 Glass-cutting tool. J. Lamb. No. 939,843; Nov. 9; Sp. p. 3062; Gaz. vol. 148; p. 505.  
 Glass cylinders, Device for forming. F. J. Houze. No. 941,148; Nov. 23; Sp. p. 5974; Gaz. vol. 148; p. 1004.  
 Glass cylinders, Drawing. H. A. Schnelbach. No. 939,101; Nov. 2; Sp. p. 1380; Gaz. vol. 148; p. 225.  
 Glass, Decorating. W. J. Peterson. No. 934,094; Sept. 14; Sp. p. 2294; Gaz. vol. 146; p. 377.  
 Glass-drawing apparatus. J. W. Cruikshank. No. 914,117; Mar. 2; Sp. p. 988; Gaz. vol. 140; p. 157.  
 Glass-drawing apparatus. J. H. Lubbers. No. 914,588; Mar. 9; Sp. p. 1961; Gaz. vol. 140; p. 335.  
 Glass-drawing apparatus, Automatic air-valve mechanism for. H. Douchamp. No. 938,305; Oct. 26; Sp. p. 5674; Gaz. vol. 147; p. 966.  
 Glass-drawing machine. L. A. Thornburg. No. 922,973; May 25; Sp. p. 5930; Gaz. vol. 142; p. 1034.  
 Glass-drawing process. A. E. Spinasse. No. 915,899; Mar. 23; Sp. p. 4619; Gaz. vol. 140; p. 819.  
 Glass-drawing process and apparatus. J. H. Lubbers. No. 926,501; June 29; Sp. p. 7098; Gaz. vol. 143; p. 1253.  
 Glass-etching machine. A. B. Knight. No. 912,386; Feb. 16; Sp. p. 2810; Gaz. vol. 139; p. 512.  
 Glass-etching machine. A. B. Knight. No. 941,883; Nov. 30; Sp. p. 7556; Gaz. vol. 148; p. 1272.  
 Glass-fastener. W. T. Mooney. No. 944,892; Dec. 28; Sp. p. 6166; Gaz. vol. 149; p. 1061.  
 Glass-fastener, Window-. C. W. Phinny. No. 936,158; Oct. 5; Sp. p. 1172; Gaz. vol. 147; p. 178.  
 Glass-fattening tool. R. L. Frink. No. 930,658; Aug. 10; Sp. p. 2131; Gaz. vol. 145; p. 372.  
 Glass for open-top gas-meters, Proving-. W. T. Drew. No. 913,710; Mar. 2; Sp. p. 71; Gaz. vol. 140; p. 13.  
 Glass-forming machinery. W. W. W. Keyes. No. 935,663; Oct. 5; Sp. p. 85; Gaz. vol. 147; p. 14.  
 Glass-furnace. H. Brooke. No. 925,864; June 22; Sp. p. 5824; Gaz. vol. 143; p. 1008.  
 Glass gathering and shaping machine. G. W. Graves and J. Whittemore. No. 914,823; Mar. 9; Sp. p. 2454; Gaz. vol. 140; p. 411.  
 Glass goods, Manufacture of ornamental. C. G. Sibley. No. 912,426; Feb. 16; Sp. p. 2895; Gaz. vol. 139; p. 525.  
 Glass-grinding apparatus, Plate-. L. Spachtholz and J. Wingerson. No. 916,935; Mar. 30; Sp. p. 6623; Gaz. vol. 140; p. 1180.  
 Glass-grinding-machine abrading-disk. I. Ramboux. No. 911,759; Feb. 9; Sp. p. 1451; Gaz. vol. 139; p. 271.  
 Glass, Grinding plate-. L. Spachtholz and J. Wingerson. No. 921,477; May 11; Sp. p. 2845; Gaz. vol. 142; p. 489.  
 Glass heating and drawing furnace. U. Houze. No. 935,789; Oct. 5; Sp. p. 393; Gaz. vol. 147; p. 55.  
 Glass in the heat, Apparatus for working. J. Kremenezky. No. 928,670; July 20; Sp. p. 4097; Gaz. vol. 144; p. 714.  
 Glass, Machine for making wire-. J. I. Arbogast. No. 941,842; Nov. 30; Sp. p. 7481; Gaz. vol. 148; p. 1257.  
 Glass machine, Wire-. N. Franzen. No. 936,880; Oct. 12; Sp. p. 2664; Gaz. vol. 147; p. 440.  
 Glass-making apparatus, Wire-. J. A. Sweater and C. E. Toynbee. No. 915,805; Mar. 23; Sp. p. 4439; Gaz. vol. 140; p. 788.  
 Glass, Making decorated. C. D. Kyle. No. 914,734; Mar. 9; Sp. p. 2282; Gaz. vol. 140; p. 352.  
 Glass-making machine. C. N. Edmonds. No. 910,120; Jan. 19; Sp. p. 3385; Gaz. vol. 138; p. 622.  
 Glass-making machine, Wire-. J. Hastreiter and N. Bleilevens. No. 944,861; Dec. 28; Sp. p. 6115; Gaz. vol. 149; p. 1050.  
 Glass, Making wire-. C. J. Jungers. No. 938,385; Oct. 26; Sp. p. 5857; Gaz. vol. 147; p. 994.  
 Glass manufacture, Apparatus for. R. H. Bolin. No. 920,107; May 4; Sp. p. 8; Gaz. vol. 142; p. 4.  
 Glass, Melting and working quartz. H. Mehner. No. 931,945; Aug. 24; Sp. p. 4935; Gaz. vol. 145; p. 847.  
 Glass, Method and apparatus for making wire-. J. J. Quertinnont. No. 936,663; Oct. 12; Sp. p. 2246; Gaz. vol. 147; p. 373.  
 Glass, Method and apparatus for making wire-. R. A. B. Walsh. No. 940,843; Nov. 23; Sp. p. 5326; Gaz. vol. 148; p. 903.  
 Glass, Method and apparatus for making wire-. R. A. B. Walsh. No. 940,845; Nov. 23; Sp. p. 5329; Gaz. vol. 148; p. 903.  
 Glass, Method and apparatus for making wire-. R. A. B. Walsh. No. 940,846; Nov. 23; Sp. p. 5330; Gaz. vol. 148; p. 904.  
 Glass, Method of and apparatus for drawing continuous sheets of. E. Pourcault. No. 941,866; Nov. 30; Sp. p. 7525; Gaz. vol. 148; p. 1266.  
 Glass, Method of and machine for making wire-. R. A. B. Walsh. No. 940,834; Nov. 23; Sp. p. 5304; Gaz. vol. 148; p. 900.



*Alphabetical list of inventions—Continued.*

- Glass, Method of and machine for making wire. R. A. B. Walsh. No. 940,835; Nov. 23; Sp. p. 5309; Gaz. vol. 148; p. 900.
- Glass, Method of and machine for making wire. R. A. B. Walsh. No. 940,836; Nov. 23; Sp. p. 5311; Gaz. vol. 148; p. 901.
- Glass, Method of and machine for making wire. R. A. B. Walsh. No. 940,837; Nov. 23; Sp. p. 5313; Gaz. vol. 148; p. 901.
- Glass, Method of and machine for making wire. R. A. B. Walsh. No. 940,838; Nov. 23; Sp. p. 5316; Gaz. vol. 148; p. 901.
- Glass, Method of and machine for making wire. R. A. B. Walsh. No. 940,839; Nov. 23; Sp. p. 5318; Gaz. vol. 148; p. 901.
- Glass, Method of and machine for making wire. R. A. B. Walsh. No. 940,840; Nov. 23; Sp. p. 5320; Gaz. vol. 148; p. 902.
- Glass, Method of and machine for making wire. R. A. B. Walsh. No. 940,841; Nov. 23; Sp. p. 5321; Gaz. vol. 148; p. 902.
- Glass, Method of and machine for making wire. R. A. B. Walsh. No. 940,842; Nov. 23; Sp. p. 5324; Gaz. vol. 148; p. 902.
- Glass, Method of and means for manufacture of window-. R. L. Frink. No. 941,512; Nov. 30; Sp. p. 5364; Gaz. vol. 148; p. 1146.
- Glass, Molding-frame for making sheet, plate, or wire. J. J. Quertinmont. No. 911,679; Feb. 9; Sp. p. 1309; Gaz. vol. 139; p. 244.
- Glass-molding machine. W. J. Miller. No. 937,626; Oct. 19; Sp. p. 4227; Gaz. vol. 147; p. 720.
- Glass-molding machine. W. J. Miller. No. 941,935; Nov. 30; Sp. p. 7659; Gaz. vol. 148; p. 1290.
- Glass-molds, Construction of. F. M. McKernan. No. 941,584; Nov. 30; Sp. p. 6903; Gaz. vol. 148; p. 1168.
- Glass, Ornamenting. W. G. Williams. No. 916,516; Mar. 30; Sp. p. 5838; Gaz. vol. 140; p. 1047.
- Glass, Ornamenting. J. Tully. No. 918,798; Apr. 20; Sp. p. 3805; Gaz. vol. 141; p. 675.
- Glass panes, Metal frame for. A. Busse. No. 942,611; Dec. 7; Sp. p. 1210; Gaz. vol. 149; p. 198.
- Glass plates together, Device for connecting. D. J. Murnane. No. 932,164; Aug. 24; Sp. p. 5393; Gaz. vol. 145; p. 920.
- Glass, Process and apparatus for making plate, window, or wire. J. J. Quertinmont. No. 911,678; Feb. 9; Sp. p. 1307; Gaz. vol. 139; p. 244.
- Glass, Process and apparatus for making wire-. J. J. Quertinmont. No. 936,665; Oct. 12; Sp. p. 2249; Gaz. vol. 147; p. 373.
- Glass-rinser. H. Blum. No. 927,320; July 6; Sp. p. 1252; Gaz. vol. 144; p. 200.
- Glass shade and screen. A. Steffin. No. 928,340; July 20; Sp. p. 3438; Gaz. vol. 144; p. 606.
- Glass sheets, Method of and apparatus for making. H. K. Hitchcock. No. 918,323; Apr. 13; Sp. p. 2763; Gaz. vol. 141; p. 490.
- Glass-tank furnace. R. H. Bolin. No. 928,175; July 13; Sp. p. 3037; Gaz. vol. 144; p. 518.
- Glass-tank gathering-pool. A. L. Schram. No. 938,518; Nov. 2; Sp. p. 174; Gaz. vol. 148; p. 24.
- Glass, Teeming. F. L. O. Wadsworth. No. 921,923; May 18; Sp. p. 3771; Gaz. vol. 142; p. 663.
- Glass tiles, Apparatus for manufacturing. W. T. Nicholls. No. 909,014; Jan. 5; Sp. p. 1193; Gaz. vol. 138; p. 191.
- Glass tiles, Pressing. W. L. Mooney. No. 961,574; Mar. 30; Sp. p. 5942; Gaz. vol. 140; p. 1066.
- Glass-tube cutter. E. N. Ward and C. D. Guffey. No. 934,487; Sept. 21; Sp. p. 3064; Gaz. vol. 146; p. 534.
- Glass-tube cutter. C. E. Skinner. No. 936,674; Oct. 12; Sp. p. 2263; Gaz. vol. 147; p. 376.
- Glass-tube-cutting machine. J. E. Graybill. No. 921,828; May 18; Sp. p. 3590; Gaz. vol. 142; p. 633.
- Glass-washing apparatus. C. W. Jaycox. No. 942,074; Dec. 7; Sp. p. 67; Gaz. vol. 149; p. 13.
- Glass, Wired. E. B. Gibert. No. 912,950; Feb. 16; Sp. p. 3974; Gaz. vol. 139; p. 699.
- Glass-working apparatus. A. E. Spinasse. No. 921,747; May 18; Sp. p. 3399; Gaz. vol. 142; p. 605.
- Glasses, Shooting-. C. E. Cook. No. 916,109; Mar. 23; Sp. p. 5008; Gaz. vol. 140; p. 887.
- Glasses, Tourist's. J. M. Faehrmann. No. 911,483; Feb. 2; Sp. p. 864; Gaz. vol. 139; p. 153.
- Glassware-carton. L. H. Peltason. No. 914,872; Mar. 9; Sp. p. 2565; Gaz. vol. 140; p. 428.
- Glassware-forming machine. T. W. Wood. No. 933,939; Sept. 14; Sp. p. 1987; Gaz. vol. 146; p. 327.
- Glassware, Making machine-footed. J. I. Arbogast. No. 909,842; Jan. 12; Sp. p. 2828; Gaz. vol. 138; p. 498.
- Glassware, Mechanism for producing hollow. C. J. Koenig. No. 940,165; Nov. 16; Sp. p. 3802; Gaz. vol. 148; p. 648.
- Glassware, Mold for machines for making hollow. J. Wolf. No. 922,071; May 18; Sp. p. 4070; Gaz. vol. 142; p. 712.
- Glassware to leers, Device for transferring. L. J. Robb. No. 927,168; July 6; Sp. p. 969; Gaz. vol. 144; p. 158.
- Glazier's instrument. J. W. Tucker. No. 922,361; May 18; Sp. p. 4635; Gaz. vol. 142; p. 805.
- Glazier's point. C. A. Buffat. No. 939,796; Nov. 9; Sp. p. 2983; Gaz. vol. 148; p. 491.
- Glazier's table. W. B. Cosby. No. 926,470; June 29; Sp. p. 7046; Gaz. vol. 143; p. 1242.
- Glazing tile, brick, or the like. F. E. Goldsmith. No. 941,635; Nov. 30; Sp. p. 7005; Gaz. vol. 148; p. 1185.
- Globe and guard, Safety-. W. G. Sherrer. No. 940,899; Nov. 23; Sp. p. 5433; Gaz. vol. 148; p. 920.
- Globe, Geographical. C. A. Rehm. No. 930,316; Aug. 3; Sp. p. 1398; Gaz. vol. 145; p. 232.
- Globe-holder. R. M. Dixon. No. 927,718; July 13; Sp. p. 2115; Gaz. vol. 144; p. 367.
- Glove. G. W. Mandrill. No. 917,783; Apr. 13; Sp. p. 1650; Gaz. vol. 141; p. 306.
- Glove. G. W. Boone. No. 920,012; Apr. 27; Sp. p. 6517; Gaz. vol. 141; p. 1112.
- Glove. E. E. Sabin. No. 923,374; June 1; Sp. p. 600; Gaz. vol. 143; p. 88.
- Glove. A. E. Lindner. No. 925,207; June 15; Sp. p. 4488; Gaz. vol. 143; p. 766.
- Glove. J. G. Lake. No. 930,197; Aug. 3; Sp. p. 1199; Gaz. vol. 145; p. 196.
- Glove. G. C. Fried. No. 935,011; Sept. 28; Sp. p. 4099; Gaz. vol. 146; p. 735.
- Glove. C. E. and R. G. Chaddock. No. 944,357; Dec. 28; Sp. p. 4987; Gaz. vol. 149; p. 878.
- Glove, Base-ball. L. A. Treacy. No. 916,064; Mar. 23; Sp. p. 4925; Gaz. vol. 140; p. 873.
- Glove, Catching-. J. A. Peach. (Reissue.) No. 12,996; July 27; Sp. p. 6090; Gaz. vol. 144; p. 1065.
- Glove, Cotton-picking. N. J. Baggett. No. 922,237; May 18; Sp. p. 4412; Gaz. vol. 142; p. 766.
- Glove, Gauntlet-. J. H. Fletcher. No. 923,256; June 1; Sp. p. 295; Gaz. vol. 143; p. 47.
- Glove, mitten, or the like. A. G. Hoegren. No. 933,449; Sept. 7; Sp. p. 926; Gaz. vol. 146; p. 142.
- Glove-pocket. J. A. Fields and J. T. Seblin. No. 936,437; Oct. 12; Sp. p. 1781; Gaz. vol. 147; p. 296.
- Glove-stretcher. C. L. McBride. No. 915,465; Mar. 16; Sp. p. 3725; Gaz. vol. 140; p. 647.
- Glove-stretcher. C. L. McBride. No. 915,466; Mar. 16; Sp. p. 3727; Gaz. vol. 140; p. 647.
- Glove, Swimming-. C. Iverson. No. 942,262; Dec. 7; Sp. p. 498; Gaz. vol. 149; p. 78.
- Gloves, &c., Machine for cleaning. A. Hopkins. No. 929,222; July 27; Sp. p. 5209; Gaz. vol. 144; p. 924.
- Glucose, Manufacture of. C. B. Duryea. No. 916,684; Mar. 30; Sp. p. 6143; Gaz. vol. 140; p. 1101.
- Glucose, Treating. H. A. Hughes. No. 916,558; Mar. 30; Sp. p. 5913; Gaz. vol. 140; p. 1061.
- Glue-cutting apparatus. E. T. Nicklin and J. Bergquist. No. 915,878; Mar. 23; Sp. p. 4572; Gaz. vol. 140; p. 812.
- Glue-tester. E. S. Smith. No. 911,277; Feb. 2; Sp. p. 508; Gaz. vol. 139; p. 87.
- Gluing-machine. F. Sutter. No. 915,504; Mar. 16; Sp. p. 3798; Gaz. vol. 140; p. 660.
- Gluing-machine. W. F. Morse. No. 920,367; May 4; Sp. p. 563; Gaz. vol. 142; p. 90.
- Gluing, Machine for preparing wood for. F. Diehl. No. 920,280; May 4; Sp. p. 412; Gaz. vol. 142; p. 63.
- Gluing machine, Loose-wrap-. A. Cohn and L. M. Kronheimer. No. 927,224; July 6; Sp. p. 1078; Gaz. vol. 144; p. 175.
- Gluing textile fabrics, Machine for. F. C. Schröder and J. Seldal. No. 922,962; May 25; Sp. p. 5915; Gaz. vol. 142; p. 1031.
- Glycerin, Distilling. F. J. Wood. No. 910,440; Jan. 19; Sp. p. 4104; Gaz. vol. 138; p. 736.
- Go-cart. V. F. Pickert. No. 918,362; Apr. 13; Sp. p. 2836; Gaz. vol. 141; p. 502.
- Go-cart. H. G. Traver. No. 930,326; Aug. 3; Sp. p. 1415; Gaz. vol. 145; p. 235.
- Go-cart. E. C. Moore. No. 938,498; Nov. 2; Sp. p. 111; Gaz. vol. 148; p. 18.
- Go-cart or baby-carriage. A. J. Adams. No. 918,250; Apr. 13; Sp. p. 2630; Gaz. vol. 141; p. 466.
- Go-cart or baby-carriage. A. J. Adams. No. 925,741; June 22; Sp. p. 5544; Gaz. vol. 143; p. 966.
- Go-carts, Foot-rest for. A. J. Adams. No. 927,089; July 6; Sp. p. 825; Gaz. vol. 144; p. 132.
- Gold and sand washer. W. R. Graham. No. 929,586; July 27; Sp. p. 5935; Gaz. vol. 144; p. 1043.
- Gold, Apparatus for washing out placer-. S. Rachelman. No. 942,663; Dec. 7; Sp. p. 1313; Gaz. vol. 149; p. 215.
- Gold at the bottoms of flowing streams, Apparatus for mining. L. F. Gilman. No. 916,859; Mar. 30; Sp. p. 6458; Gaz. vol. 140; p. 1154.
- Gold-bearing deposits from river-beds, Apparatus for elevating. A. L. and O. H. Eliel. No. 910,277; Jan. 19; Sp. p. 3776; Gaz. vol. 138; p. 680.
- Gold-concentrating apparatus. J. H. Montgomery. No. 913,905; Mar. 2; Sp. p. 505; Gaz. vol. 140; p. 82.
- Gold-dredges, Collecting means for. T. J. Barbour. No. 936,754; Oct. 12; Sp. p. 2416; Gaz. vol. 147; p. 403.
- Gold, platinum, silver, nickel, copper, &c., Extracting. A. Seigle. No. 915,705; Mar. 16; Sp. p. 4237; Gaz. vol. 140; p. 730.
- Gold-saving apparatus. V. P. Yelmini. No. 932,936; Aug. 31; Sp. p. 6976; Gaz. vol. 145; p. 1198.
- Gold-separator. L. L. L. Swenson. No. 917,906; Apr. 13; Sp. p. 1918; Gaz. vol. 141; p. 347.
- Gold-separator. E. F. Busse. No. 931,842; Aug. 24; Sp. p. 4691; Gaz. vol. 145; p. 813.
- Gold separator, Placer-. T. G. Leavell. No. 919,894; Apr. 27; Sp. p. 6294; Gaz. vol. 141; p. 1075.
- Gold-saving machine. J. Hamilton. No. 942,962; Dec. 14; Sp. p. 1998; Gaz. vol. 149; p. 346.
- Gold-saving machine. F. B. Roberts. No. 943,789; Dec. 21; Sp. p. 3780; Gaz. vol. 149; p. 658.
- Gold-separating apparatus. J. D. Luttrell. No. 933,772; Sept. 14; Sp. p. 1655; Gaz. vol. 146; p. 274.
- Gold, Treating. J. B. Rossman. No. 943,317; Dec. 14; Sp. p. 2759; Gaz. vol. 149; p. 466.
- Golf apparatus, Captive-. R. B. Peter. No. 914,873; Mar. 9; Sp. p. 2565; Gaz. vol. 140; p. 428.
- Golf-ball. E. Kempshall. No. 922,773; May 25; Sp. p. 5510; Gaz. vol. 142; p. 969.
- Golf-club. C. W. Royce. No. 925,389; June 15; Sp. p. 4809; Gaz. vol. 143; p. 822.
- Golf-club. F. E. Riden. No. 942,353; Dec. 7; Sp. p. 682; Gaz. vol. 149; p. 110.
- Golf-club bag. F. C. Breakpear. No. 936,698; Oct. 12; Sp. p. 2314; Gaz. vol. 147; p. 384.

*Alphabetical list of inventions—Continued.*

- Golf practice-net. J. R. Bolton. No. 920,907; May 11; Sp. p. 1667; Gaz. vol. 142; p. 297.
- Gong-ringing device, Electrically-operated single or vibratory. N. Fallek. No. 916,688; Mar. 30; Sp. p. 6149; Gaz. vol. 140; p. 1102.
- Gong-striking mechanism. H. E. Reeve. No. 925,439; June 15; Sp. p. 4912; Gaz. vol. 143; p. 839.
- Gongs, &c., Mechanism for. H. E. Reeve. (Reissue.) No. 12,914; Feb. 2; Sp. p. 1033; Gaz. vol. 139; p. 179.
- Governor. W. Fox. No. 922,689; May 25; Sp. p. 5340; Gaz. vol. 142; p. 942.
- Governor. K. Johansen. No. 924,234; June 8; Sp. p. 2501; Gaz. vol. 143; p. 406.
- Governor. N. C. Bassett. No. 930,024; Aug. 3; Sp. p. 847; Gaz. vol. 145; p. 137.
- Governor. G. H. Wilson. No. 935,442; Sept. 28; Sp. p. 4957; Gaz. vol. 146; p. 875.
- Governor. N. C. Bassett. No. 939,656; Nov. 9; Sp. p. 2669; Gaz. vol. 148; p. 441.
- Governor attachment. J. E. McDaniel. No. 910,409; Jan. 19; Sp. p. 4047; Gaz. vol. 138; p. 725.
- Governor, Bench-. A. S. B. Little. No. 937,828; Oct. 26; Sp. p. 4649; Gaz. vol. 147; p. 804.
- Governor, Centrifugal. C. P. Hall. No. 942,900; Dec. 14; Sp. p. 1846; Gaz. vol. 149; p. 325.
- Governor, Engine-. E. Hill. No. 931,870; Aug. 24; Sp. p. 4746; Gaz. vol. 145; p. 822.
- Governor, Engine-. S. S. Hall. No. 937,993; Oct. 26; Sp. p. 4989; Gaz. vol. 147; p. 860.
- Governor, Explosion-engine. H. M. Cramer. No. 924,639; June 15; Sp. p. 3330; Gaz. vol. 143; p. 573.
- Governor, Explosive-engine. W. C. Mayo and J. Houlehan. No. 920,074; Apr. 27; Sp. p. 6657; Gaz. vol. 141; p. 1133.
- Governor, Explosive-engine. H. E. Woolery. No. 937,743; Oct. 19; Sp. p. 4465; Gaz. vol. 147; p. 757.
- Governor, Explosive-engine pressure-. A. Winton. No. 924,301; June 8; Sp. p. 2637; Gaz. vol. 143; p. 429.
- Governor, Fly-ball. M. Haerberlein. No. 941,775; Nov. 30; Sp. p. 7323; Gaz. vol. 148; p. 1234.
- Governor for air-compressors. E. B. Coup. No. 914,116; Mar. 2; Sp. p. 985; Gaz. vol. 140; p. 156.
- Governor for groups of power-engines, Indirectly-acting. D. Thoma. No. 943,849; Dec. 21; Sp. p. 3907; Gaz. vol. 149; p. 680.
- Governor for internal-combustion engines. W. M. Power. No. 939,923; Nov. 9; Sp. p. 3243; Gaz. vol. 148; p. 534.
- Governor for internal-combustion engines. E. Higgins. No. 942,071; Dec. 7; Sp. p. 62; Gaz. vol. 149; p. 12.
- Governor for internal-combustion engines, Electromagnetic. E. Hubbard. No. 927,541; July 13; Sp. p. 1721; Gaz. vol. 144; p. 307.
- Governor, Marine-engine. J. Gordon, T. Jackson, and C. Andrews. No. 919,713; Apr. 27; Sp. p. 5905; Gaz. vol. 141; p. 1014.
- Governor, Marine-engine. I. D. Kissack. No. 921,714; May 18; Sp. p. 3342; Gaz. vol. 142; p. 595.
- Governor or speed-regulator. A. de Dion and G. Bouton. No. 933,367; Sept. 7; Sp. p. 756; Gaz. vol. 146; p. 118.
- Governor, Pressure-. S. A. Worcester. No. 930,257; Aug. 3; Sp. p. 1293; Gaz. vol. 145; p. 213.
- Governor-regulator. C. W. Cramer. No. 924,638; June 15; Sp. p. 3328; Gaz. vol. 143; p. 573.
- Governor, Vacuum-. G. H. Beebe. No. 927,446; July 6; Sp. p. 1503; Gaz. vol. 144; p. 249.
- Grab or draft hook. D. A. Busch. No. 938,551; Nov. 2; Sp. p. 256; Gaz. vol. 148; p. 37.
- Grab, Safety-. W. Remsnyder. No. 933,583; Sept. 7; Sp. p. 1267; Gaz. vol. 146; p. 187.
- Grader, Adjustable road-. J. H. Koontz. No. 910,928; Jan. 26; Sp. p. 5089; Gaz. vol. 138; p. 918.
- Grader and ditching-machine, Road-. J. M. Mock and H. C. Prather. No. 926,503; June 29; Sp. p. 7100; Gaz. vol. 143; p. 1253.
- Grader and drag, Road. E. B. Fritchman. No. 933,003; Nov. 2; Sp. p. 1193; Gaz. vol. 148; p. 191.
- Grader and scraper, Road. S. Richardson. No. 942,749; Dec. 7; Sp. p. 1482; Gaz. vol. 149; p. 243.
- Grader drag, Adjustable road-. G. W. Pointer. No. 927,071; July 6; Sp. p. 786; Gaz. vol. 144; p. 125.
- Grader or ditching-machine. W. L. Davis. No. 930,050; Aug. 3; Sp. p. 906; Gaz. vol. 145; p. 145.
- Grader, Road-. W. S. Livengood. No. 928,205; July 13; Sp. p. 3106; Gaz. vol. 144; p. 522.
- Grader, Road-. A. W. Hadley and H. M. Smith. No. 940,389; Nov. 16; Sp. p. 4339; Gaz. vol. 148; p. 726.
- Grading attachment for vehicles, Road-. W. S. Livengood. No. 922,493; May 25; Sp. p. 4926; Gaz. vol. 142; p. 878.
- Grading-machine. C. O. Wold. No. 918,633; Apr. 20; Sp. p. 3437; Gaz. vol. 141; p. 620.
- Grading-machine. C. Skidmore. No. 930,320; Aug. 3; Sp. p. 1404; Gaz. vol. 145; p. 233.
- Grading machine, Road-. H. K. Clemons. No. 924,966; June 15; Sp. p. 4022; Gaz. vol. 143; p. 685.
- Grading materials. H. K. Hitchcock. No. 934,441; Sept. 21; Sp. p. 2972; Gaz. vol. 146; p. 518.
- Grading materials, Apparatus for. H. K. Hitchcock. No. 934,611; Sept. 21; Sp. p. 3304; Gaz. vol. 146; p. 575.
- Grading pulverulent materials, Apparatus for. S. Cooper. No. 933,532; Sept. 7; Sp. p. 1177; Gaz. vol. 146; p. 170.
- Gradient instrument. R. Sobotka. No. 928,557; July 20; Sp. p. 3856; Gaz. vol. 144; p. 675.
- Gradients, Means for and method of determining potential. W. Stanley. No. 925,606; June 22; Sp. p. 5247; Gaz. vol. 143; p. 923.
- Graduating-machine. A. Geiger. No. 921,824; May 18; Sp. p. 3569; Gaz. vol. 142; p. 632.
- Grain and hay loader. C. B. Sanrope. No. 910,088; Jan. 19; Sp. p. 3334; Gaz. vol. 138; p. 613.
- Grain and seed separator. H. Möbus. No. 917,339; Apr. 6; Sp. p. 785; Gaz. vol. 141; p. 134.
- Grain-bin. W. S. Thompson. No. 926,366; June 29; Sp. p. 6864; Gaz. vol. 143; p. 1208.
- Grain-bin. G. M. Boll. No. 933,617; Sept. 7; Sp. p. 1344; Gaz. vol. 146; p. 200.
- Grain-bin. A. N. Eaton. No. 935,096; Sept. 28; Sp. p. 4278; Gaz. vol. 146; p. 764.
- Grain-bin dump-distributor. J. R. Pattinson. No. 922,944; May 25; Sp. p. 5886; Gaz. vol. 142; p. 1025.
- Grain-binder feeder. J. Lindner. No. 943,978; Dec. 21; Sp. p. 4180; Gaz. vol. 149; p. 724.
- Grain-chutes, Electromagnetic separator for. B. M. Sypher. No. 933,930; Sept. 14; Sp. p. 1971; Gaz. vol. 146; p. 325.
- Grain-cleaner. G. R. Davidson. No. 917,016; Apr. 6; Sp. p. 113; Gaz. vol. 141; p. 22.
- Grain cleaner and drier. A. Dill. No. 923,498; June 1; Sp. p. 853; Gaz. vol. 143; p. 130.
- Grain cleaner and separator. F. Grotenrath. No. 938,576; Nov. 2; Sp. p. 306; Gaz. vol. 148; p. 45.
- Grain-cleaner, Centrifugal. F. Müller. No. 916,757; Mar. 30; Sp. p. 6264; Gaz. vol. 140; p. 1121.
- Grain-cleaning-machine attachment. C. H. Scott. No. 918,095; Apr. 13; Sp. p. 2307; Gaz. vol. 141; p. 414.
- Grain-conditioning apparatus. C. D. Stephens. No. 934,026; Sept. 14; Sp. p. 2146; Gaz. vol. 146; p. 355.
- Grain-conveyer. G. and T. B. Byrne. No. 941,060; Nov. 23; Sp. p. 5771; Gaz. vol. 148; p. 974.
- Grain-conveyer, Pneumatic. W. F. Carlton. No. 908,445; Jan. 5; Sp. p. 23; Gaz. vol. 138; p. 6.
- Grain-cooler. H. Hager. No. 921,395; May 11; Sp. p. 2688; Gaz. vol. 142; p. 462.
- Grain-cradle. J. H. F. Clifton. No. 925,297; June 15; Sp. p. 4650; Gaz. vol. 143; p. 794.
- Grain-cutter. L. Clark. No. 942,614; Dec. 7; Sp. p. 1215; Gaz. vol. 149; p. 198.
- Grain-door. F. Van Camp, Sr., and E. Van Camp. No. 908,523; Jan. 5; Sp. p. 191; Gaz. vol. 138; p. 33.
- Grain-door. G. R. Dunn. No. 937,056; Oct. 19; Sp. p. 3025; Gaz. vol. 147; p. 531.
- Grain-door and car-door, Combined. J. S. Bender. No. 922,380; May 18; Sp. p. 4678; Gaz. vol. 142; p. 812.
- Grain-door, Sectional. F. M. Reed. No. 910,020; Jan. 19; Sp. p. 3200; Gaz. vol. 138; p. 591.
- Grain-drier. W. E. Ellis. No. 921,097; May 11; Sp. p. 2052; Gaz. vol. 142; p. 361.
- Grain-drier. L. L. Cass. No. 923,137; June 1; Sp. p. 23; Gaz. vol. 143; p. 6.
- Grain-drier. P. Provost. No. 940,190; Nov. 16; Sp. p. 3866; Gaz. vol. 148; p. 656.
- Grain-drier, Centrifugal. C. W. F. Steinmann. No. 930,838; Aug. 10; Sp. p. 2633; Gaz. vol. 145; p. 451.
- Grain drier, cooler, and bleacher, Combined. E. P. Arnold. No. 915,534; Mar. 16; Sp. p. 3852; Gaz. vol. 140; p. 669.
- Grain-drill. A. Bellerive. No. 909,137; Jan. 12; Sp. p. 1466; Gaz. vol. 138; p. 267.
- Grain-drill. D. A. Schutt. No. 917,162; Apr. 6; Sp. p. 410; Gaz. vol. 141; p. 72.
- Grain-drill. L. E. Roby. No. 936,741; Oct. 12; Sp. p. 2394; Gaz. vol. 147; p. 398.
- Grain-drill shoe. R. Cole. No. 909,991; Jan. 19; Sp. p. 3149; Gaz. vol. 138; p. 581.
- Grain-drill tooth. G. and M. Smith. No. 908,811; Jan. 5; Sp. p. 788; Gaz. vol. 138; p. 124.
- Grain-feeder and band-cutter. A. A. Coburn and F. Harnden. No. 913,696; Mar. 2; Sp. p. 32; Gaz. vol. 140; p. 8.
- Grain for milling, Treating. W. H. Paul. No. 929,481; July 27; Sp. p. 5753; Gaz. vol. 143; p. 1010.
- Grain-grader. G. H. Rich. No. 918,912; Apr. 20; Sp. p. 4073; Gaz. vol. 141; p. 714.
- Grain-grinding machine. W. F. and J. C. Moore. No. 932,882; Aug. 31; Sp. p. 6873; Gaz. vol. 145; p. 1180.
- Grain-hulling mill. D. Uhlhorn, Jr. No. 918,226; Apr. 13; Sp. p. 2571; Gaz. vol. 141; p. 458.
- Grain-hulls, Apparatus for removing. G. E. Henry. No. 938,323; Oct. 26; Sp. p. 5705; Gaz. vol. 147; p. 972.
- Grain-immersing machine. S. T. Helgeson. No. 921,697; May 18; Sp. p. 3310; Gaz. vol. 142; p. 589.
- Grain into form for food, Machine for manufacturing. H. D. Perky. No. 916,365; Mar. 23; Sp. p. 5476; Gaz. vol. 140; p. 972.
- Grain-meter. W. Ross. No. 920,656; May 4; Sp. p. 1141; Gaz. vol. 142; p. 184.
- Grain-mill signaling attachment. B. B. and J. W. Spratlin. No. 922,821; May 25; Sp. p. 5621; Gaz. vol. 142; p. 985.
- Grain-pickling apparatus. J. Carpenter. No. 917,712; Apr. 6; Sp. p. 1459; Gaz. vol. 141; p. 256.
- Grain products to composite forms of food, Machine for reducing. H. D. Perky. No. 912,976; Feb. 16; Sp. p. 4033; Gaz. vol. 139; p. 707.
- Grain-reducing machine. C. Jaquet. No. 911,044; Feb. 2; Sp. p. 38; Gaz. vol. 139; p. 9.
- Grain-screen. H. E. Wack. No. 922,220; May 18; Sp. p. 4389; Gaz. vol. 142; p. 761.
- Grain-separating machine. J. B. Cornwall. No. 927,328; July 6; Sp. p. 1264; Gaz. vol. 144; p. 209.
- Grain-separator. C. A. Torrence. No. 910,973; Jan. 26; Sp. p. 5172; Gaz. vol. 138; p. 932.
- Grain-separator. G. Feickert. No. 912,098; Feb. 9; Sp. p. 2201; Gaz. vol. 139; p. 380.
- Grain-separator. T. C. Vaughan. No. 914,997; Mar. 9; Sp. p. 2760; Gaz. vol. 140; p. 466.
- Grain-separator. H. K. Hansen. No. 924,986; June 15; Sp. p. 4060; Gaz. vol. 143; p. 691.



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- Grain-separator. M. Leonard. No. 925,002; June 15; Sp. p. 4100; Gaz. vol. 143; p. 697.  
 Grain-separator. E. G. Clymans. No. 928,498; July 20; Sp. p. 3730; Gaz. vol. 144; p. 656.  
 Grain-separator. W. Sperry. No. 929,044; July 27; Sp. p. 4842; Gaz. vol. 144; p. 866.  
 Grain-separator. G. E. Arnold. No. 934,989; Sept. 28; Sp. p. 4052; Gaz. vol. 146; p. 728.  
 Grain-separator. W. P. Silver. No. 939,449; Nov. 9; Sp. p. 2228; Gaz. vol. 148; p. 370.  
 Grain-separators, Straw-rack for. J. P. Neste. No. 930,785; Aug. 10; Sp. p. 2387; Gaz. vol. 145; p. 413.  
 Grain-shock elevator. J. James. No. 915,183; Mar. 16; Sp. p. 3167; Gaz. vol. 140; p. 555.  
 Grain-shocking apparatus. J. Calder. No. 914,790; Mar. 9; Sp. p. 2388; Gaz. vol. 140; p. 401.  
 Grain-shocking implement. R. J. Groves. No. 922,136; May 18; Sp. p. 4194; Gaz. vol. 142; p. 733.  
 Grain-spout. C. L. Gardner. No. 936,772; Oct. 12; Sp. p. 2454; Gaz. vol. 147; p. 408.  
 Grain sprouting or germinating apparatus. A. W. Grunwaldt. No. 922,888; May 25; Sp. p. 5774; Gaz. vol. 142; p. 1007.  
 Grain-tank, Metal. C. M. Porter. No. 922,329; May 18; Sp. p. 4579; Gaz. vol. 142; p. 795.  
 Grain thrasher and separator. H. R. Robinson. No. 910,477; Jan. 19; Sp. p. 4189; Gaz. vol. 138; p. 749.  
 Grain-treating apparatus. S. D. Bailey. No. 908,831; Jan. 5; Sp. p. 836; Gaz. vol. 138; p. 131.  
 Grain-treating apparatus. E. Sorenson. No. 941,821; Nov. 30; Sp. p. 7431; Gaz. vol. 148; p. 1249.  
 Grain weighing and bagging machine. M. Davis. No. 915,941; Mar. 23; Sp. p. 4687; Gaz. vol. 140; p. 832.  
 Grain-weighing machine. M. Davis. No. 915,940; Mar. 23; Sp. p. 4684; Gaz. vol. 140; p. 832.  
 Grain-weighing machine. A. Oppermann. No. 916,582; Mar. 30; Sp. p. 5958; Gaz. vol. 140; p. 1069.  
 Graining compound. F. M. Clapp. No. 909,847; Jan. 12; Sp. p. 2836; Gaz. vol. 138; p. 500.  
 Graining device. A. L. Lawrence. No. 919,439; Apr. 27; Sp. p. 5324; Gaz. vol. 141; p. 920.  
 Graining device. M. M. Burcky. No. 925,421; June 15; Sp. p. 4865; Gaz. vol. 143; p. 832.  
 Graining device. C. T. Ridgely. No. 930,690; Aug. 10; Sp. p. 2186; Gaz. vol. 145; p. 382.  
 Graining device. C. T. Ridgely. No. 944,821; Dec. 28; Sp. p. 6025; Gaz. vol. 149; p. 1036.  
 Gramophone. L. T. Haile. No. 914,826; Mar. 9; Sp. p. 2464; Gaz. vol. 140; p. 412.  
 Gramophone. H. F. Peltier. No. 917,790; Apr. 13; Sp. p. 1664; Gaz. vol. 141; p. 308.  
 Gramophone. L. T. Haile. No. 923,119; May 25; Sp. p. 6234; Gaz. vol. 142; p. 1080.  
 Granaries and bins, Controlling device for. F. R. McQueen. No. 924,921; June 15; Sp. p. 3918; Gaz. vol. 143; p. 669.  
 Granite molding and surface cutting machine. W. Murphy. No. 918,187; Apr. 13; Sp. p. 2478; Gaz. vol. 141; p. 444.  
 Granular materials, Apparatus for screening, sizing, and classifying. C. A. Pringle. No. 936,162; Oct. 5; Sp. p. 1177; Gaz. vol. 147; p. 179.  
 Granular substances, Apparatus for grading. R. Moodie. No. 919,291; Apr. 20; Sp. p. 4991; Gaz. vol. 141; p. 836.  
 Granulating-machine. J. D. Hiss. No. 920,869; May 4; Sp. p. 1589; Gaz. vol. 142; p. 254.  
 Granulators, Apparatus for moving material from. W. R. Warren. No. 916,238; Mar. 23; Sp. p. 5246; Gaz. vol. 140; p. 926.  
 Grape-picker. B. Hestness. No. 917,063; Apr. 6; Sp. p. 204; Gaz. vol. 141; p. 38.  
 Grape-picking device. G. F. Morse. No. 936,146; Oct. 5; Sp. p. 1153; Gaz. vol. 147; p. 175.  
 Graphite article and making same. A. M. Williamson. No. 935,180; Sept. 28; Sp. p. 4440; Gaz. vol. 146; p. 791.  
 Graphite-lubricator. C. Comstock. No. 919,322; Apr. 27; Sp. p. 5071; Gaz. vol. 141; p. 880.  
 Graphite-lubricator. F. G. Wilson. No. 936,970; Oct. 12; Sp. p. 2838; Gaz. vol. 147; p. 473.  
 Graphite lubricator, Dry-. H. E. Walker. No. 918,616; Apr. 20; Sp. p. 3386; Gaz. vol. 141; p. 613.  
 Graphite, Making. E. G. Acheson. (Reissue.) No. 12,964; June 1; Sp. p. 1584; Gaz. vol. 143; p. 236.  
 Graphite, Making pure unctuous. E. G. Acheson. No. 933,944; Sept. 14; Sp. p. 1997; Gaz. vol. 146; p. 329.  
 Graphophone. T. P. Hall. No. 910,529; Jan. 26; Sp. p. 4297; Gaz. vol. 138; p. 789.  
 Graphophone. J. H. J. Haines. No. 920,324; May 4; Sp. p. 481; Gaz. vol. 142; p. 75.  
 Graphophone. T. H. Macdonald. No. 936,646; Oct. 12; Sp. p. 2214; Gaz. vol. 147; p. 366.  
 Graphophone attachment. H. C. Kelly. No. 913,508; Feb. 23; Sp. p. 5109; Gaz. vol. 139; p. 912.  
 Graphophone-horn and record-case, Combined. W. Smith. No. 939,753; Nov. 9; Sp. p. 2881; Gaz. vol. 148; p. 475.  
 Graphophone speed-changing mechanism. F. F. Murdock. No. 937,459; Oct. 19; Sp. p. 3903; Gaz. vol. 147; p. 664.  
 Graphophone start and stop mechanism. T. H. Macdonald. No. 934,451; Sept. 21; Sp. p. 2992; Gaz. vol. 146; p. 522.  
 Graphophones, Foot control for. T. H. Macdonald. No. 934,450; Sept. 21; Sp. p. 2990; Gaz. vol. 146; p. 521.  
 Graphophones, Speed-changing mechanism for. F. F. Murdock. No. 927,809; July 13; Sp. p. 2295; Gaz. vol. 144; p. 397.  
 Grapple. J. A. Holmberg. No. 910,062; Jan. 19; Sp. p. 3282; Gaz. vol. 138; p. 605.  
 Grapple. J. B. Castagnos. No. 915,017; Mar. 9; Sp. p. 2797; Gaz. vol. 140; p. 473.  
 Grapple. W. A. Rogers. No. 923,299; June 1; Sp. p. 444; Gaz. vol. 142; p. 62.  
 Grapple. C. L. Simmons. No. 927,180; July 6; Sp. p. 996; Gaz. vol. 144; p. 161.  
 Grapple. T. H. Williams. No. 944,644; Dec. 28; Sp. p. 5631; Gaz. vol. 149; p. 977.  
 Grapple, Hand-. W. Autenrieth. No. 937,564; Oct. 19; Sp. p. 4117; Gaz. vol. 147; p. 700.  
 Grappling device. L. Shields and B. Ace. No. 911,684; Feb. 9; Sp. p. 1320; Gaz. vol. 139; p. 245.  
 Grass-catcher. J. H. Coult. No. 921,804; May 18; Sp. p. 3522; Gaz. vol. 142; p. 625.  
 Grass-catcher. H. B. McGrath. No. 939,068; Nov. 2; Sp. p. 1318; Gaz. vol. 148; p. 214.  
 Grass-clipper. C. S. McNew. No. 929,239; July 27; Sp. p. 5247; Gaz. vol. 144; p. 930.  
 Grass-crimping apparatus. W. F. Wyman. No. 940,630; Nov. 16; Sp. p. 4842; Gaz. vol. 148; p. 806.  
 Grass-cutter. F. Nash. No. 911,516; Feb. 2; Sp. p. 934; Gaz. vol. 139; p. 163.  
 Grass-cutting device. W. S. Hayden. No. 939,837; Nov. 9; Sp. p. 3055; Gaz. vol. 148; p. 504.  
 Grass destroyer, Quack-. C. C. Nelson. No. 922,178; May 18; Sp. p. 4277; Gaz. vol. 142; p. 746.  
 Grass digger, Quack-. C. D. Brackelsberg. No. 910,168; Jan. 19; Sp. p. 3494; Gaz. vol. 138; p. 638.  
 Grass digger, Quack-. J. Hopkins. No. 942,559; Dec. 7; Sp. p. 1109; Gaz. vol. 149; p. 180.  
 Grass exterminator, Quack-. H. C. Pickel. No. 915,110; Mar. 16; Sp. p. 3015; Gaz. vol. 140; p. 532.  
 Grasses, Treating. W. F. Wyman. No. 934,872; Sept. 21; Sp. p. 3511; Gaz. vol. 146; p. 661.  
 Gate. D. W. Cherry. No. 909,756; Jan. 12; Sp. p. 2668; Gaz. vol. 138; p. 470.  
 Gate. J. A. Marquette. No. 910,078; Jan. 19; Sp. p. 3314; Gaz. vol. 138; p. 610.  
 Gate. J. S. Wood. No. 913,341; Feb. 23; Sp. p. 4779; Gaz. vol. 139; p. 856.  
 Gate. A. S. Roberts. No. 916,022; Mar. 23; Sp. p. 4853; Gaz. vol. 140; p. 859.  
 Gate. C. W. Harvey. No. 918,317; Apr. 13; Sp. p. 2751; Gaz. vol. 141; p. 488.  
 Gate. R. D. Granger. No. 924,346; June 8; Sp. p. 2729; Gaz. vol. 143; p. 445.  
 Gate. J. and W. Reagan. No. 925,787; June 22; Sp. p. 5661; Gaz. vol. 143; p. 982.  
 Gate. E. R. Cahoon. No. 926,095; June 29; Sp. p. 6300; Gaz. vol. 143; p. 1119.  
 Gate. R. E. Adams. No. 928,921; July 27; Sp. p. 4593; Gaz. vol. 144; p. 825.  
 Gate. J. W. Webb. No. 931,534; Aug. 17; Sp. p. 4012; Gaz. vol. 145; p. 691.  
 Gate. C. F. Butler. No. 939,945; Nov. 9; Sp. p. 3289; Gaz. vol. 148; p. 542.  
 Gate. H. Untiedt. No. 944,524; Dec. 28; Sp. p. 5376; Gaz. vol. 149; p. 936.  
 Gate attachment. J. M. White and W. C. Sanders. No. 937,349; Oct. 19; Sp. p. 3645; Gaz. vol. 147; p. 627.  
 Gate-bar. E. A. Wildt. No. 944,162; Dec. 21; Sp. p. 4578; Gaz. vol. 149; p. 785.  
 Gate-bar, Hollow. E. J. Gordon. No. 915,852; Mar. 23; Sp. p. 4528; Gaz. vol. 140; p. 804.  
 Gate-bar, Water-cooled. P. G. Schmidt. No. 916,609; Mar. 30; Sp. p. 6005; Gaz. vol. 140; p. 1077.  
 Gate, Chain. F. Taber. No. 919,088; Apr. 20; Sp. p. 4401; Gaz. vol. 141; p. 769.  
 Gate, Dumping-. H. C. Hoener and F. Andreas. No. 943,748; Dec. 21; Sp. p. 3704; Gaz. vol. 149; p. 644.  
 Gate, Electrically-heated. M. Hernansen and A. Tygerson. No. 931,605; Aug. 17; Sp. p. 4136; Gaz. vol. 145; p. 712.\*  
 Gate, Fireplace-. J. H. Dwight. No. 923,593; July 20; Sp. p. 3942; Gaz. vol. 144; p. 688.  
 Gate for drying purposes, Basket-. A. Wien. No. 927,699; July 13; Sp. p. 2081; Gaz. vol. 144; p. 361.  
 Gate, Knockdown mounted dumping-. C. F. Salter. No. 929,713; Aug. 3; Sp. p. 153; Gaz. vol. 145; p. 27.  
 Gate, Portable. W. H. Bolland. No. 927,214; July 6; Sp. p. 1063; Gaz. vol. 144; p. 172.  
 Gate, Revolving. A. L. Wilson. No. 940,570; Nov. 16; Sp. p. 4725; Gaz. vol. 148; p. 786.  
 Gate, Rotary. T. Kaufman. No. 927,730; July 13; Sp. p. 2134; Gaz. vol. 144; p. 370.  
 Gate, Self-dumping. W. C. Mizell. No. 937,685; Oct. 19; Sp. p. 4331; Gaz. vol. 147; p. 738.  
 Gate-shaker. J. J. Simpson. No. 937,967; Oct. 26; Sp. p. 4929; Gaz. vol. 147; p. 851.  
 Gate, Shaking-. W. and W. Reagan. No. 926,076; June 22; Sp. p. 6254; Gaz. vol. 143; p. 1078.  
 Gate-trivet. A. S. Cooper. No. 915,938; Mar. 23; Sp. p. 4682; Gaz. vol. 140; p. 831.  
 Gates, Shaker for fire-. A. T. Zuech and G. H. Diemer. No. 942,029; Nov. 30; Sp. p. 7830; Gaz. vol. 148; p. 1319.  
 Grater. B. F. Hoffman. No. 926,327; June 29; Sp. p. 6794; Gaz. vol. 143; p. 1195.  
 Grater, Nutmeg-. R. Jordan. No. 944,241; Dec. 21; Sp. p. 4722; Gaz. vol. 149; p. 809.  
 Grating, Forge locked. D. F. Youngblood. No. 940,912; Nov. 23; Sp. p. 5456; Gaz. vol. 148; p. 924.  
 Grating, screen, screen-door construction, and the like. E. McClure. No. 942,039; Nov. 30; Sp. p. 7850; Gaz. vol. 148; p. 1322.  
 Grave-filling apparatus. D. A. Sparks. No. 937,882; Oct. 26; Sp. p. 4761; Gaz. vol. 147; p. 823.

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 Grave-lining. J. M. and W. I. Doddridge. No. 924,895; June 15; Sp. p. 3871; Gaz. vol. 143; p. 660.  
 Grave-lining. J. M. and W. I. Doddridge. No. 924,896; June 15; Sp. p. 3872; Gaz. vol. 143; p. 660.  
 Grave signaling device. C. R. Zimmermann and V. G. Gustafson. No. 925,260; June 15; Sp. p. 4577; Gaz. vol. 143; p. 783.  
 Gravity-conveyor, Automatic. S. Hedrain. No. 914,832; Mar. 9; Sp. p. 2476; Gaz. vol. 140; p. 414.  
 Gravity-level. H. J. Carrigan. No. 909,060; Jan. 5; Sp. p. 1277; Gaz. vol. 138; p. 205.  
 Grease-cup. P. G. Leistner. No. 912,693; Feb. 16; Sp. p. 3457; Gaz. vol. 139; p. 617.  
 Grease-cup. C. J. Bushmeyer. No. 926,932; July 6; Sp. p. 455; Gaz. vol. 144; p. 73.  
 Grease-cup. A. F. Taylor. No. 931,659; Aug. 17; Sp. p. 4274; Gaz. vol. 145; p. 730.  
 Grease-cup, Automatic. O. Allen. No. 910,846; Jan. 19; Sp. p. 3914; Gaz. vol. 138; p. 704.  
 Grease-cup, Compression. L. W. Dursi. No. 936,872; Oct. 12; Sp. p. 2651; Gaz. vol. 147; p. 441.  
 Grease or lubricant cup. G. W. Bowen. No. 941,849; Nov. 30; Sp. p. 7496; Gaz. vol. 148; p. 1260.  
 Greaser, Griddle-. E. F. Altman. No. 917,517; Apr. 6; Sp. p. 1096; Gaz. vol. 141; p. 191.  
 Greenhouse. E. A. Holt. No. 926,119; June 29; Sp. p. 6346; Gaz. vol. 143; p. 1127.  
 Greenhouse construction. E. F. Kurowski. No. 913,217; Feb. 23; Sp. p. 4522; Gaz. vol. 139; p. 814.  
 Greenhouse construction. J. F. M. Farquhar. No. 927,958; July 13; Sp. p. 2630; Gaz. vol. 144; p. 447.  
 Greenhouse-roof construction. N. J. Rupp. No. 930,696; Aug. 10; Sp. p. 2201; Gaz. vol. 145; p. 384.  
 Greenhouse-ventilator. G. B. Anderson. No. 919,673; Apr. 27; Sp. p. 5832; Gaz. vol. 141; p. 1001.  
 Grid resistance. H. J. Wiegand. No. 942,156; Dec. 7; Sp. p. 283; Gaz. vol. 149; p. 43.  
 Grilles or screens to window-frames, Attachment for securing. C. A. Gehret. No. 915,588; Mar. 16; Sp. p. 3983; Gaz. vol. 140; p. 688.  
 Grinder. H. G. McCulloch. No. 909,316; Jan. 12; Sp. p. 1808; Gaz. vol. 138; p. 324.  
 Grinder. W. M. Weddington. No. 919,407; Apr. 27; Sp. p. 5248; Gaz. vol. 141; p. 909.  
 Grinder, Cutter-. R. K. Le Blond and W. F. Groene. No. 932,791; Aug. 31; Sp. p. 6711; Gaz. vol. 145; p. 1151.  
 Grinder-feeder. R. J. Steen. No. 918,215; Apr. 13; Sp. p. 2552; Gaz. vol. 141; p. 454.  
 Grinder for cutter-bars. G. B. Henson. No. 937,939; Oct. 26; Sp. p. 4881; Gaz. vol. 147; p. 842.  
 Grinder-head. A. W. Puffer and G. W. Hayes. No. 931,483; Aug. 17; Sp. p. 3921; Gaz. vol. 145; p. 677.  
 Grinder, Portable and detachable disk-. J. C. Ward. No. 939,115; Nov. 2; Sp. p. 1411; Gaz. vol. 148; p. 230.  
 Grinder, Radius-. A. O. Van Dervort. No. 944,300; Dec. 28; Sp. p. 4859; Gaz. vol. 149; p. 857.  
 Grinder, Rotary. T. A. Panyard. No. 912,259; Feb. 12; Sp. p. 2505; Gaz. vol. 139; p. 431.  
 Grinder, Sausage-meat-cutter. J. N. Bechard. No. 935,731; Oct. 5; Sp. p. 226; Gaz. vol. 147; p. 37.  
 Grinder, Screening-. E. and E. O'Brien, Jr. No. 933,780; Sept. 14; Sp. p. 1669; Gaz. vol. 146; p. 276.  
 Grinder, Skate-runner. C. L. Joy. No. 940,931; Nov. 23; Sp. p. 5498; Gaz. vol. 148; p. 932.  
 Grinding and polishing machine. F. N. and F. E. Gardiner. No. 909,882; Jan. 19; Sp. p. 2923; Gaz. vol. 138; p. 544.  
 Grinding and polishing machine. W. La Hodny. No. 944,678; Dec. 28; Sp. p. 5698; Gaz. vol. 149; p. 988.  
 Grinding and polishing roll. A. H. Whatley. No. 919,665; Apr. 27; Sp. p. 5816; Gaz. vol. 141; p. 998.  
 Grinding and polishing roll. A. Bevan. No. 938,547; Nov. 2; Sp. p. 242; Gaz. vol. 148; p. 36.  
 Grinding and pulverizing mill. J. J. Knight. No. 929,956; Aug. 3; Sp. p. 709; Gaz. vol. 145; p. 113.  
 Grinding apparatus. H. K. Hitchcock. No. 934,442; Sept. 21; Sp. p. 2975; Gaz. vol. 146; p. 519.  
 Grinding apparatus. H. K. Hitchcock. No. 934,612; Sept. 21; Sp. p. 3305; Gaz. vol. 146; p. 575.  
 Grinding-apparatus bearing. E. Rivett. No. 913,767; Mar. 2; Sp. p. 190; Gaz. vol. 140; p. 32.  
 Grinding apparatus, Tool-. G. W. Riddle. No. 935,406; Sept. 28; Sp. p. 4884; Gaz. vol. 146; p. 864.  
 Grinding composition. E. B. Gallaher. No. 924,604; June 8; Sp. p. 3243; Gaz. vol. 143; p. 529.  
 Grinding cylindrical surfaces, Apparatus for. J. L. Bogert. No. 921,353; May 11; Sp. p. 2597; Gaz. vol. 142; p. 447.  
 Grinding device. W. S. Hannan. No. 914,718; Mar. 9; Sp. p. 2243; Gaz. vol. 140; p. 377.  
 Grinding device. W. S. Hannan. No. 915,430; Mar. 16; Sp. p. 3655; Gaz. vol. 140; p. 636.  
 Grinding device, Interior. J. R. Keller. No. 938,387; Oct. 26; Sp. p. 5865; Gaz. vol. 147; p. 995.  
 Grinding-disk. C. H. Richards. No. 927,077; July 6; Sp. p. 798; Gaz. vol. 144; p. 127.  
 Grinding-disk sliding spindle. J. Miller, Jr. No. 911,896; Feb. 9; Sp. p. 1699; Gaz. vol. 139; p. 315.  
 Grinding-machine. A. E. Ayer and A. S. Vose. No. 908,639; Jan. 5; Sp. p. 440; Gaz. vol. 138; p. 71.  
 Grinding-machine. B. M. W. Hanson. No. 909,895; Jan. 19; Sp. p. 2946; Gaz. vol. 138; p. 548.  
 Grinding-machine. A. E. Ayer. No. 910,984; Jan. 26; Sp. p. 5190; Gaz. vol. 138; p. 936.  
 Grinding-machine. C. M. Conradson. No. 911,210; Feb. 2; Sp. p. 367; Gaz. vol. 139; p. 64.  
 Grinding-machine. H. B. Nichols. No. 913,543; Feb. 23; Sp. p. 5186; Gaz. vol. 139; p. 925.  
 Grinding-machine. G. F. Taylor and H. Rochefort. No. 914,763; Mar. 9; Sp. p. 2338; Gaz. vol. 140; p. 392.  
 Grinding-machine. B. M. W. Hanson. No. 915,174; Mar. 16; Sp. p. 3147; Gaz. vol. 140; p. 552.  
 Grinding-machine, &c. W. G. Klemm. No. 915,298; Mar. 16; Sp. p. 3394; Gaz. vol. 140; p. 593.  
 Grinding-machine. W. Berry. No. 917,526; Apr. 6; Sp. p. 1117; Gaz. vol. 141; p. 195.  
 Grinding-machine. E. Sachs. No. 918,769; Apr. 20; Sp. p. 3756; Gaz. vol. 141; p. 666.  
 Grinding-machine. E. Sachs. No. 918,770; Apr. 20; Sp. p. 3759; Gaz. vol. 141; p. 667.  
 Grinding-machine. J. H. Pope. No. 919,456; Apr. 27; Sp. p. 5359; Gaz. vol. 141; p. 926.  
 Grinding-machine. W. J. Bastian and F. Granitz. No. 921,343; May 11; Sp. p. 2577; Gaz. vol. 142; p. 445.  
 Grinding-machine. A. B. Landis. No. 921,717; May 18; Sp. p. 3347; Gaz. vol. 142; p. 596.  
 Grinding-machine. C. G. Trefethen. No. 923,464; June 1; Sp. p. 791; Gaz. vol. 143; p. 118.  
 Grinding-machine. F. N. Connet. No. 926,101; June 29; Sp. p. 6311; Gaz. vol. 143; p. 1121.  
 Grinding-machine. C. Smith. No. 930,626; Aug. 10; Sp. p. 2069; Gaz. vol. 145; p. 362.  
 Grinding-machine. F. Woodruff. No. 930,639; Aug. 10; Sp. p. 2095; Gaz. vol. 145; p. 365.  
 Grinding-machine. B. H. Davis and C. B. Ross. No. 932,603; Aug. 31; Sp. p. 6301; Gaz. vol. 145; p. 1089.  
 Grinding-machine. A. C. Warner. No. 937,035; Oct. 12; Sp. p. 2982; Gaz. vol. 147; p. 495.  
 Grinding-machine. J. Miller, Jr. No. 937,379; Oct. 19; Sp. p. 3708; Gaz. vol. 147; p. 637.  
 Grinding-machine. G. Larson. No. 939,038; Nov. 2; Sp. p. 1266; Gaz. vol. 148; p. 203.  
 Grinding-machine. C. H. Norton, J. C. Spence and H. N. Cudworth. No. 940,548; Nov. 16; Sp. p. 4680; Gaz. vol. 148; p. 779.  
 Grinding-machine. H. B. Nichols. No. 944,147; Dec. 21; Sp. p. 4541; Gaz. vol. 149; p. 779.  
 Grinding-machine. H. B. Nichols. No. 944,903; Dec. 28; Sp. p. 6189; Gaz. vol. 149; p. 1065.  
 Grinding-machine, Breaster-knife-. J. J. Heys. No. 944,238; Dec. 21; Sp. p. 4710; Gaz. vol. 149; p. 807.  
 Grinding-machine, Cotton-gin-rib-. H. W. Ligon. No. 934,976; Sept. 21; Sp. p. 4020; Gaz. vol. 146; p. 699.  
 Grinding-machine, Cutlery-. W. J. Bastian and F. Granitz. No. 910,350; Jan. 19; Sp. p. 3923; Gaz. vol. 138; p. 705.  
 Grinding-machine, Cutlery-. C. L. Joy. No. 940,930; Nov. 23; Sp. p. 5495; Gaz. vol. 148; p. 931.  
 Grinding-machine drill-rest. P. E. Shee. No. 927,757; July 13; Sp. p. 2193; Gaz. vol. 144; p. 380.  
 Grinding-machine driving-gear. J. M. Thompson. No. 940,089; Nov. 16; Sp. p. 3641; Gaz. vol. 148; p. 621.  
 Grinding-machine feed-table. J. Miller, Jr. No. 912,593; Feb. 16; Sp. p. 3244; Gaz. vol. 139; p. 582.  
 Grinding-machine, Hay-. J. F. Langdon. No. 909,914; Jan. 19; Sp. p. 2992; Gaz. vol. 138; p. 555.  
 Grinding-machine, Lens-. L. Wilhelm. No. 912,513; Feb. 16; Sp. p. 3088; Gaz. vol. 139; p. 556.  
 Grinding-machine, Lens-. F. Buchhop. No. 938,459; Nov. 2; Sp. p. 12; Gaz. vol. 148; p. 4.  
 Grinding-machine micrometer-feed. C. G. Trefethen. No. 915,128; Mar. 16; Sp. p. 3069; Gaz. vol. 140; p. 538.  
 Grinding-machine, Multisplindle metal-. W. L. Bryant. No. 925,867; June 22; Sp. p. 5831; Gaz. vol. 143; p. 1009.  
 Grinding-machine, Portable. C. W. Danglemeier and J. J. Connors. No. 942,311; Dec. 7; Sp. p. 604; Gaz. vol. 149; p. 96.  
 Grinding-machine, Saw-tooth-. W. H. Lucas. No. 938,159; Oct. 26; Sp. p. 5366; Gaz. vol. 147; p. 916.  
 Grinding-machine, Universal. H. B. Nichols. No. 944,902; Dec. 28; Sp. p. 6181; Gaz. vol. 149; p. 1064.  
 Grinding-machines, Device for automatically arresting the feed-motion in. F. Schwerd. No. 920,669; May 4; Sp. p. 1180; Gaz. vol. 142; p. 189.  
 Grinding-machines, Gearing for. D. Kelley. No. 930,384; Aug. 10; Sp. p. 1540; Gaz. vol. 145; p. 279.  
 Grinding-mill. C. N. McLaughlin. No. 911,061; Feb. 2; Sp. p. 78; Gaz. vol. 139; p. 14.  
 Grinding-mill. A. Ruhland. No. 916,786; Mar. 30; Sp. p. 6325; Gaz. vol. 140; p. 1130.  
 Grinding-mill. T. L. and T. J. Sturtevant. No. 924,014; June 8; Sp. p. 2011; Gaz. vol. 143; p. 333.  
 Grinding-mill. A. Bock and W. A. Kramer. No. 925,987; June 22; Sp. p. 6062; Gaz. vol. 143; p. 1048.  
 Grinding-mill. T. C. Cadogan. No. 926,168; June 29; Sp. p. 6457; Gaz. vol. 143; p. 1144.  
 Grinding-mill. E. Utz. No. 926,305; June 29; Sp. p. 6740; Gaz. vol. 143; p. 1188.  
 Grinding-mill. R. De Maio. No. 930,742; Aug. 10; Sp. p. 2304; Gaz. vol. 145; p. 399.  
 Grinding-mill. G. S. Emerick. No. 931,045; Aug. 17; Sp. p. 2988; Gaz. vol. 145; p. 527.  
 Grinding-mill. W. R. Cunningham. No. 931,279; Aug. 17; Sp. p. 3508; Gaz. vol. 145; p. 607.  
 Grinding-mill. S. Lieberknecht. No. 931,321; Aug. 17; Sp. p. 3606; Gaz. vol. 145; p. 622.  
 Grinding-mill. F. A. Ryther. No. 932,179; Aug. 24; Sp. p. 5426; Gaz. vol. 145; p. 925.



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 Grinding-mill. J. Walker. No. 938,923; Nov. 2; Sp. p. 1042; Gaz. vol. 148; p. 165.  
 Grinding-mill. J. C. Clark. No. 940,513; Nov. 16; Sp. p. 4539; Gaz. vol. 148; p. 767.  
 Grinding-mill. G. E. Sovereign. No. 942,357; Dec. 7; Sp. p. 687; Gaz. vol. 149; p. 111.  
 Grinding-mill. J. Bercha. No. 942,768; Dec. 7; Sp. p. 1521; Gaz. vol. 149; p. 249.  
 Grinding-mill. C. G. Hamilton. No. 944,550; Dec. 28; Sp. p. 5436; Gaz. vol. 149; p. 945.  
 Grinding-mill. G. S. Emerick. No. 944,670; Dec. 28; Sp. p. 5683; Gaz. vol. 149; p. 986.  
 Grinding-mill, Ball. C. E. Wyman. No. 910,761; Jan. 26; Sp. p. 4780; Gaz. vol. 138; p. 865.  
 Grinding-mill, Centrifugal. J. F. Custard. No. 925,305; June 15; Sp. p. 4665; Gaz. vol. 143; p. 797.  
 Grinding milling-cutters or similar tools, Machine for. P. A. Kustner. No. 936,915; Oct. 12; Sp. p. 2735; Gaz. vol. 147; p. 457.  
 Grinding, mixing, and sifting machine. W. H. Lish. No. 929,770; Aug. 3; Sp. p. 294; Gaz. vol. 145; p. 50.  
 Grinding or abrading wheel. E. F. Landis. No. 909,913; Jan. 19; Sp. p. 2991; Gaz. vol. 138; p. 554.  
 Grinding or polishing machine. F. N. Gardner. No. 920,859; May 4; Sp. p. 1551; Gaz. vol. 142; p. 250.  
 Grinding or pulverizing machine. A. H. Petersen. No. 942,865; Dec. 7; Sp. p. 1734; Gaz. vol. 149; p. 281.  
 Grinding-pan. W. Middleton and H. N. G. Cobbe. No. 936,794; Oct. 12; Sp. p. 2496; Gaz. vol. 147; p. 416.  
 Grinding routing-cutters, Cutter-holder for. V. Royle. No. 930,695; Aug. 10; Sp. p. 2200; Gaz. vol. 145; p. 384.  
 Grinding solid bodies, Machine for. A. J. Ericsson. No. 938,466; Nov. 2; Sp. p. 27; Gaz. vol. 148; p. 7.  
 Grinding surface or cage. E. H. Frickey. No. 944,780; Dec. 28; Sp. p. 5928; Gaz. vol. 149; p. 1022.  
 Grinding-wheel. A. W. Puffer. No. 927,164; July 6; Sp. p. 962; Gaz. vol. 144; p. 156.  
 Grinding-wheel stand. G. E. Soper. No. 925,848; June 22; Sp. p. 5796; Gaz. vol. 143; p. 1003.  
 Grindstone attachment. J. Sylvestre. No. 925,610; June 22; Sp. p. 5260; Gaz. vol. 143; p. 925.  
 Grindstones, Hub construction for. J. Sanfason. No. 922,049; May 18; Sp. p. 4034; Gaz. vol. 142; p. 705.  
 Grip device, Intermittent. H. W. Fellows. No. 928,434; July 20; Sp. p. 3601; Gaz. vol. 144; p. 637.  
 Grip device, Intermittent. R. D. Tittle. No. 938,727; Nov. 2; Sp. p. 602; Gaz. vol. 148; p. 95.  
 Grip mechanism, Intermittent. C. Johnson. No. 918,451; Apr. 13; Sp. p. 3016; Gaz. vol. 141; p. 530.  
 Grip, Spring hand-. S. A. Alden. No. 910,259; Jan. 19; Sp. p. 3730; Gaz. vol. 138; p. 673.  
 Grip-wheel. B. V. Bigham. No. 916,656; Mar. 30; Sp. p. 6092; Gaz. vol. 140; p. 1092.  
 Gripper attachment. J. R. Grove. No. 922,762; May 25; Sp. p. 5490; Gaz. vol. 142; p. 966.  
 Gripping device. E. Kan. No. 924,238; June 8; Sp. p. 2509; Gaz. vol. 143; p. 408.  
 Gripping device. W. D. Roop. No. 944,052; Dec. 21; Sp. p. 4345; Gaz. vol. 149; p. 749.  
 Grooved wheel for monorailway and tramway systems. E. W. C. Kearney. No. 925,106; June 15; Sp. p. 4293; Gaz. vol. 143; p. 731.  
 Grooving-machine. H. P. Townsend. No. 916,226; Mar. 23; Sp. p. 5231; Gaz. vol. 140; p. 924.  
 Grooving-machine. A. Klein. (Reissue.) No. 13,043; Nov. 23; Sp. p. 6401; Gaz. vol. 148; p. 1070.  
 Grooving-machine cutter-head. H. B. Ross. No. 937,962; Oct. 26; Sp. p. 4920; Gaz. vol. 147; p. 850.  
 Ground, Machine for preparing and ridging corn-. A. P. Gubrud. No. 928,122; July 13; Sp. p. 2925; Gaz. vol. 144; p. 500.  
 Grubber and cultivator, Combined grass-. C. W. Stark. No. 930,996; Aug. 10; Sp. p. 2857; Gaz. vol. 145; p. 482.  
 Grubbing and root-breaking machine. D. M. Gates. No. 922,572; May 25; Sp. p. 5099; Gaz. vol. 142; p. 905.  
 Grubbing implement. L. P. Harvey. No. 935,020; Sept. 28; Sp. p. 4110; Gaz. vol. 146; p. 737.  
 Guano-distributor and cotton-seed planter, Combined. C. W. Welsh. No. 908,919; Jan. 5; Sp. p. 1004; Gaz. vol. 138; p. 161.  
 Guard. D. D. Ogilvie. No. 922,180; May 18; Sp. p. 4283; Gaz. vol. 142; p. 747.  
 Guard locking device, Seat-. S. E. Jackman. No. 916,157; Mar. 23; Sp. p. 5098; Gaz. vol. 140; p. 902.  
 Guide attachment. H. Holmes. No. 934,809; Sept. 21; Sp. p. 3687; Gaz. vol. 146; p. 640.  
 Guide for hemming. B. and G. Branower. No. 909,533; Jan. 12; Sp. p. 2224; Gaz. vol. 138; p. 395.  
 Gum, Extraction of. P. C. D. Castle. No. 924,319; June 8; Sp. p. 2674; Gaz. vol. 143; p. 435.  
 Gum into sticks, Machine for breaking slabs of. H. Y. Armstrong. No. 924,955; June 15; Sp. p. 3979; Gaz. vol. 143; p. 681.  
 Gummed paper. C. H. Crowell. No. 930,648; Aug. 10; Sp. p. 2110; Gaz. vol. 145; p. 368.  
 Gun. E. H. Searle. No. 936,369; Oct. 12; Sp. p. 1605; Gaz. vol. 147; p. 273.  
 Gun. J. R. Crabtree. No. 938,983; Nov. 2; Sp. p. 1155; Gaz. vol. 148; p. 184.  
 Gun. S. Faber. No. 944,128; Dec. 21; Sp. p. 4509; Gaz. vol. 149; p. 774.  
 Gun. W. D. Smith. No. 944,973; Dec. 28; Sp. p. 6325; Gaz. vol. 149; p. 1086.  
 Gun action-slide lock, Take-down-. F. D. Peltier. No. 913,047; Feb. 23; Sp. p. 4185; Gaz. vol. 139; p. 757.  
 Gun, Air-. W. F. Markham and E. S. Roe. No. 911,056; Feb. 2; Sp. p. 65; Gaz. vol. 139; p. 13.  
 Gun, Air-. W. A. Heilprin. No. 944,188; Dec. 21; Sp. p. 4622; Gaz. vol. 149; p. 793.  
 Gun attachment, Shot-. O. E. Michaud. No. 927,572; July 13; Sp. p. 1773; Gaz. vol. 144; p. 317.  
 Gun, Automatic. A. T. Dawson and G. T. Buckham. No. 909,849; Jan. 12; Sp. p. 2841; Gaz. vol. 138; p. 500.  
 Gun, Automatic. A. V. P. M. Berthier. No. 918,646; Apr. 20; Sp. p. 3490; Gaz. vol. 41; p. 624.  
 Gun, Automatic. A. T. Dawson and G. T. Buckham. No. 920,832; May 4; Sp. p. 1493; Gaz. vol. 142; p. 241.  
 Gun, Automatic. C. D. Lovelace. No. 922,173; May 18; Sp. p. 4256; Gaz. vol. 142; p. 744.  
 Gun, Automatic. A. T. Dawson and G. T. Buckham. No. 926,052; June 22; Sp. p. 6193; Gaz. vol. 143; p. 1069.  
 Gun, Automatic. R. E. Jeffery. No. 929,596; July 27; Sp. p. 5957; Gaz. vol. 144; p. 1047.  
 Gun, Automatic. A. T. Dawson and G. T. Buckham. No. 942,167; Dec. 7; Sp. p. 309; Gaz. vol. 149; p. 47.  
 Gun-barrel and producing the same. R. H. Berkstresser. No. 930,927; Aug. 10; Sp. p. 2686; Gaz. vol. 145; p. 460.  
 Gun, Barrel-recoil. M. Hermsdorf. No. 911,818; Feb. 9; Sp. p. 1558; Gaz. vol. 139; p. 290.  
 Gun, Barrel-recoil. N. Koch and G. Hayn. No. 913,403; Feb. 23; Sp. p. 4897; Gaz. vol. 139; p. 878.  
 Gun barrels, Transport-carriage for portable recoil-. H. Kanonenberg. No. 927,860; July 13; Sp. p. 2414; Gaz. vol. 144; p. 413.  
 Gun, Breech-loading. A. H. Fox and G. A. Horne. No. 921,220; May 11; Sp. p. 2303; Gaz. vol. 142; p. 404.  
 Gun, Breech-loading. F. M. Farwell and G. F. Schafer. No. 927,031; July 6; Sp. p. 691; Gaz. vol. 144; p. 111.  
 Gun, Breech-loading gas-actuated. S. N. McClean. No. 933,098; Sept. 7; Sp. p. 126; Gaz. vol. 146; p. 21.  
 Gun, Breech-loading safety-. O. Scott. No. 911,683; Feb. 9; Sp. p. 1316; Gaz. vol. 139; p. 245.  
 Gun-carriage. N. Koch. No. 912,135; Feb. 9; Sp. p. 2266; Gaz. vol. 139; p. 392.  
 Gun-carriage for field ordnance. J. A. Deport. No. 939,399; Nov. 9; Sp. p. 3122; Gaz. vol. 148; p. 354.  
 Gun carriage or mounting. A. T. Dawson and G. T. Buckham. No. 926,551; June 29; Sp. p. 7184; Gaz. vol. 143; p. 1270.  
 Gun-carriage, Wheeled. H. Kanonenberg. No. 932,025; Aug. 24; Sp. p. 5110; Gaz. vol. 145; p. 874.  
 Gun-carriages to the ground, Anchoring wheeled. J. A. Deport. No. 910,794; Jan. 26; Sp. p. 4841; Gaz. vol. 138; p. 875.  
 Gun-carrier. J. Anderson. No. 919,301; Apr. 27; Sp. p. 5033; Gaz. vol. 141; p. 874.  
 Gun-cleaner. W. R. Moore. No. 940,985; Nov. 23; Sp. p. 5602; Gaz. vol. 148; p. 949.  
 Gun-cleaning device. H. Tupes and H. E. Harrelson. No. 921,569; May 11; Sp. p. 3018; Gaz. vol. 142; p. 518.  
 Gun-cleaning implement. J. S. Upham. No. 937,729; Oct. 19; Sp. p. 4439; Gaz. vol. 147; p. 753.  
 Gun-cleaning means. R. A. Fessenden. No. 938,836; Nov. 2; Sp. p. 831; Gaz. vol. 148; p. 133.  
 Gun, Drop-down breech-loading. L. B. Taylor. No. 913,784; Mar. 2; Sp. p. 230; Gaz. vol. 140; p. 38.  
 Gun, Electromagnetic. E. M. Alderman. No. 920,709; May 4; Sp. p. 1271; Gaz. vol. 142; p. 203.  
 Gun firing mechanism. A. Y. Leech, Jr. No. 925,642; June 22; Sp. p. 5340; Gaz. vol. 143; p. 935.  
 Gun, Grease-. W. S. Stapley. No. 915,499; Mar. 16; Sp. p. 3788; Gaz. vol. 140; p. 658.  
 Gun-hose, Automatic. G. L. Wetzel. No. 940,101; Nov. 16; Sp. p. 3677; Gaz. vol. 148; p. 626.  
 Gun-lock. J. Stauber. No. 933,135; Sept. 7; Sp. p. 202; Gaz. vol. 146; p. 34.  
 Gun, Machine-. A. F. Swahn. No. 928,344; July 20; Sp. p. 3444; Gaz. vol. 144; p. 607.  
 Gun, Magazine air-. J. H. Cox. No. 926,546; June 29; Sp. p. 7176; Gaz. vol. 143; p. 1268.  
 Gun mount and elevating mechanism. S. Faber. No. 934,513; Sept. 21; Sp. p. 3105; Gaz. vol. 146; p. 541.  
 Gun, Oil-. T. B. Wilkinson. No. 928,351; July 20; Sp. p. 3456; Gaz. vol. 144; p. 609.  
 Gun, Percussion-lock. M. Hermsdorf. No. 932,016; Aug. 24; Sp. p. 5088; Gaz. vol. 145; p. 870.  
 Gun, Portable. O. Lauber. No. 923,052; May 25; Sp. p. 6095; Gaz. vol. 142; p. 1059.  
 Gun practice, Apparatus for teaching. J. Whiteside. No. 936,066; Oct. 5; Sp. p. 988; Gaz. vol. 147; p. 147.  
 Gun projectile, Rifled. P. B. Meyer. No. 910,935; Jan. 26; Sp. p. 5102; Gaz. vol. 138; p. 920.  
 Gun protecting-shield. O. Lauber and H. Kanonenberg. No. 927,863; July 13; Sp. p. 2421; Gaz. vol. 144; p. 414.  
 Gun-rammer. J. F. Meigs and R. P. Stout. No. 925,819; June 22; Sp. p. 5731; Gaz. vol. 143; p. 993.  
 Gun-receiving vehicle, Portable. M. Dreger. No. 911,810; Feb. 9; Sp. p. 1542; Gaz. vol. 139; p. 287.  
 Gun, Recoil-. K. Thiele. No. 911,849; Feb. 9; Sp. p. 1603; Gaz. vol. 139; p. 298.  
 Gun, Recoil-. O. Lauber and F. Böminghaus. No. 923,051; May 25; Sp. p. 6094; Gaz. vol. 142; p. 1059.  
 Gun, Recoil-barrel. F. F. Burton. No. 941,006; Nov. 23; Sp. p. 5659; Gaz. vol. 148; p. 956.  
 Gun, Self-loading recoil-. H. Lehmann. No. 934,325; Sept. 14; Sp. p. 2735; Gaz. vol. 146; p. 455.  
 Gun, Shot-. O. E. Michaud. No. 927,573; July 13; Sp. p. 1775; Gaz. vol. 144; p. 317.  
 Gun-sight. D. L. Roscoe. No. 909,941; Jan. 19; Sp. p. 3045; Gaz. vol. 138; p. 564.

*Alphabetical list of inventions—Continued.*

- Gun-sight. D. B. Harris. No. 911,721; Feb. 9; Sp. p. 1389; Gaz. vol. 139; p. 258.  
 Gun-sight. G. M. Wance. No. 912,050; Feb. 9; Sp. p. 2117; Gaz. vol. 139; p. 365.  
 Gun-sight. C. H. Tessey. No. 916,058; Mar. 23; Sp. p. 4916; Gaz. vol. 140; p. 871.  
 Gun-sight. R. Mortimer. No. 917,101; Apr. 6; Sp. p. 282; Gaz. vol. 141; p. 51.  
 Gun-sight. J. Y. Bassell and F. C. Blenkner. No. 919,525; Apr. 27; Sp. p. 5528; Gaz. vol. 141; p. 949.  
 Gun-sight. F. L. Putney. No. 919,635; Apr. 27; Sp. p. 5743; Gaz. vol. 141; p. 988.  
 Gun-sight. O. H. Lindberg. No. 920,767; May 4; Sp. p. 1354; Gaz. vol. 142; p. 220.  
 Gun-sight. J. A. Kennedy. No. 937,244; Oct. 19; Sp. p. 3429; Gaz. vol. 147; p. 593.  
 Gun-sight. C. H. Gordon. No. 943,872; Dec. 21; Sp. p. 3948; Gaz. vol. 149; p. 686.  
 Gun-sight attachment. H. Korrodi. No. 933,469; Sept. 7; Sp. p. 995; Gaz. vol. 146; p. 150.  
 Gun-sight, Auxiliary. J. Potter. No. 936,034; Oct. 5; Sp. p. 915; Gaz. vol. 147; p. 138.  
 Gun-sight protector. W. Langstroth. No. 924,475; June 8; Sp. p. 2964; Gaz. vol. 143; p. 485.  
 Gun sighting apparatus. A. T. Dawson and G. T. Buckham. No. 918,738; Apr. 20; Sp. p. 3700; Gaz. vol. 141; p. 657.  
 Gun sighting attachment. H. Korrodi and O. Grauhering. No. 932,029; Aug. 24; Sp. p. 5115; Gaz. vol. 145; p. 875.  
 Gun, Spring-. H. C. Laudermitch. No. 912,968; Feb. 16; Sp. p. 4018; Gaz. vol. 139; p. 705.  
 Gun, Spring-. R. N. and H. C. Laudermitch. No. 937,078; Oct. 19; Sp. p. 3066; Gaz. vol. 147; p. 539.  
 Gun-stock. L. F. Kennedy. No. 939,707; Nov. 9; Sp. p. 2778; Gaz. vol. 148; p. 459.  
 Gun-support. C. O. Lawson. No. 941,640; Nov. 30; Sp. p. 7014; Gaz. vol. 148; p. 1186.  
 Gun training and firing mechanism. J. F. Meigs and S. A. S. Hammar. No. 927,260; July 6; Sp. p. 1152; Gaz. vol. 144; p. 188.  
 Gun-turret alarm device. J. L. Hall. No. 913,493; Feb. 23; Sp. p. 5077; Gaz. vol. 139; p. 907.  
 Gun, Water-. E. De Moulin. No. 933,961; Sept. 14; Sp. p. 2034; Gaz. vol. 146; p. 335.  
 Gun with a fluid brake, Recoil-. F. Bömingshaus. No. 932,107; Aug. 24; Sp. p. 5283; Gaz. vol. 145; p. 900.  
 Gun with breech-action. F. Jaeger. No. 928,608; July 20; Sp. p. 3971; Gaz. vol. 144; p. 693.  
 Gun with recoiling barrel. E. Olsson. No. 935,222; Sept. 28; Sp. p. 4518; Gaz. vol. 146; p. 804.  
 Guns and rifles, Magazine-lock for take-down repeating shot-. F. Hardy. No. 937,934; Oct. 26; Sp. p. 4871; Gaz. vol. 147; p. 841.  
 Guns, Cartouche charge for. A. Wratzke. No. 923,922; June 8; Sp. p. 1824; Gaz. vol. 143; p. 304.  
 Guns, Charging device for tubular-magazine. A. F. Laudensack. No. 910,397; Jan. 19; Sp. p. 4014; Gaz. vol. 138; p. 721.  
 Guns, Device for emptying the magazines of repeating shot-. T. Hardy. No. 938,851; Nov. 2; Sp. p. 856; Gaz. vol. 148; p. 138.  
 Guns, Electrical transmitting apparatus for controlling the sighting of. A. T. Dawson and G. T. Buckham. No. 922,098; May 18; Sp. p. 4127; Gaz. vol. 142; p. 721.  
 Guns, Electrical transmitting apparatus for controlling the sighting of. A. T. Dawson and G. T. Buckham. No. 922,399; May 18; Sp. p. 4727; Gaz. vol. 142; p. 819.  
 Guns, Electrically-driven elevating mechanism for. J. Krone, G. A. Schoeller, and H. Sundhaussen. No. 932,031; Aug. 24; Sp. p. 5122; Gaz. vol. 145; p. 875.  
 Guns, Electrically-driven elevating mechanism for barrel-recoil. J. Krone, G. A. Schoeller, and H. Sundhaussen. No. 932,030; Aug. 24; Sp. p. 5117; Gaz. vol. 145; p. 875.  
 Guns, Flash-light attachment for. W. L. Long. No. 944,449; Dec. 28; Sp. p. 5186; Gaz. vol. 149; p. 909.  
 Guns, Fluid-brake for recoil-. O. Lauber and F. Bömingshaus. No. 927,862; July 13; Sp. p. 2419; Gaz. vol. 144; p. 413.  
 Guns from behind cover on targets, Apparatus for laying. L. K. Scott. No. 934,223; Sept. 14; Sp. p. 2549; Gaz. vol. 146; p. 421.  
 Guns, Hand-grip for. F. A. Freeman. No. 936,528; Oct. 12; Sp. p. 1968; Gaz. vol. 147; p. 324.  
 Guns having recoiling barrels, Braking mechanism for. K. Voller. No. 910,976; Jan. 26; Sp. p. 5177; Gaz. vol. 138; p. 933.  
 Guns, Range-keeper for. A. T. Dawson and J. Horne. No. 941,626; Nov. 30; Sp. p. 6989; Gaz. vol. 148; p. 1182.  
 Guns, Rear sight for. L. W. McGrew. No. 920,377; May 4; Sp. p. 588; Gaz. vol. 142; p. 84.  
 Guns, Shell-primer for breech-loading. E. M. Funk. No. 933,030; Aug. 31; Sp. p. 7154; Gaz. vol. 145; p. 1229.  
 Guns, Single-trigger mechanism for double-barrel. J. D. Russ. No. 942,794; Dec. 7; Sp. p. 1566; Gaz. vol. 149; p. 258.  
 Guns, Single-trigger mechanism for double-barrel shot-. J. Lamer. No. 930,975; Aug. 10; Sp. p. 2798; Gaz. vol. 145; p. 474.  
 Guns, Transport-carriage for portable. O. Behnke and O. Tiemann. No. 932,095; Aug. 24; Sp. p. 5257; Gaz. vol. 145; p. 896.  
 Guns, Transport-carriage for portable. O. Behnke. No. 932,096; Aug. 24; Sp. p. 5261; Gaz. vol. 145; p. 897.  
 Gunpowder. C. P. H. Claessen. No. 914,113; Mar. 2; Sp. p. 980; Gaz. vol. 140; p. 155.  
 Gunpowder, Smokeless. C. P. H. Claessen. No. 909,546; Jan. 12; Sp. p. 2248; Gaz. vol. 138; p. 399.  
 Gutter-corner, One-piece sheet-metal. A. Friedley and H. F. Voshardt. No. 937,697; Oct. 19; Sp. p. 4363; Gaz. vol. 147; p. 742.  
 Gutter-hanger. E. D. Southwick. No. 918,786; Apr. 20; Sp. p. 3782; Gaz. vol. 141; p. 671.  
 Gutter-scraper. C. H. Braden. No. 929,278; July 27; Sp. p. 5355; Gaz. vol. 144; p. 943.  
 Guy-wire clamp. S. J. Edmiston. No. 944,850; Dec. 28; Sp. p. 6090; Gaz. vol. 149; p. 1047.  
 Gymnasium apparatus. M. B. Reach. No. 932,413; Aug. 24; Sp. p. 5866; Gaz. vol. 145; p. 1001.  
 Gymnasium-horse. A. J. Thornley. No. 941,665; Nov. 30; Sp. p. 7073; Gaz. vol. 148; p. 1195.  
 Gymnastic work, Apparatus for. W. Delmore. No. 916,680; Mar. 30; Sp. p. 6139; Gaz. vol. 140; p. 1100.  
 Gyroscope. R. G. Haines. No. 919,004; Apr. 20; Sp. p. 4257; Gaz. vol. 141; p. 744.  
 Gyve. F. C. Nagle. No. 941,942; Nov. 30; Sp. p. 7670; Gaz. vol. 148; p. 1292.  
 Hack. J. A. Costa. No. 915,743; Mar. 23; Sp. p. 4330; Gaz. vol. 140; p. 770.  
 Hair and wool clipper, Electrically-actuated. H. Luense. No. 911,139; Feb. 2; Sp. p. 232; Gaz. vol. 139; p. 41.  
 Hair-clipper. F. L. Dolan. No. 919,833; Apr. 27; Sp. p. 6179; Gaz. vol. 141; p. 1054.  
 Hair-comb. J. Swanberg. No. 933,274; Sept. 7; Sp. p. 563; Gaz. vol. 146; p. 86.  
 Hair-curler. S. and S. Goldner. No. 909,079; Jan. 5; Sp. p. 1320; Gaz. vol. 138; p. 212.  
 Hair-curler. H. N. Northrop. No. 912,154; Feb. 9; Sp. p. 2297; Gaz. vol. 139; p. 398.  
 Hair-curler. F. A. Goodykooztz. No. 912,839; Feb. 16; Sp. p. 3785; Gaz. vol. 139; p. 666.  
 Hair-cutting device. A. Lancellotte. No. 913,005; Feb. 23; Sp. p. 4102; Gaz. vol. 139; p. 744.  
 Hair-cutting instrument. F. B. Walter. No. 942,298; Dec. 7; Sp. p. 575; Gaz. vol. 149; p. 91.  
 Hair-dressing appliance. W. J. Moore. No. 930,678; Aug. 10; Sp. p. 2162; Gaz. vol. 145; p. 378.  
 Hair-dressing device. J. W. Hunter. No. 909,902; Jan. 19; Sp. p. 2972; Gaz. vol. 138; p. 551.  
 Hair-dressing device. W. Nowacke and M. P. Loesser. No. 919,933; Apr. 27; Sp. p. 6362; Gaz. vol. 141; p. 1087.  
 Hair-dressing frame. J. P. Goin. No. 929,848; Aug. 3; Sp. p. 484; Gaz. vol. 145; p. 77.  
 Hair-drying apparatus. W. A. Soles. No. 921,476; May 11; Sp. p. 2844; Gaz. vol. 142; p. 489.  
 Hair-drying apparatus. W. A. Soles. No. 939,106; Nov. 2; Sp. p. 1389; Gaz. vol. 148; p. 226.  
 Hair-drying device. R. A. Marr. No. 931,881; Aug. 24; Sp. p. 4770; Gaz. vol. 145; p. 825.  
 Hair-dye. E. Erdmann. No. 923,635; June 1; Sp. p. 1164; Gaz. vol. 143; p. 179.  
 Hair frame, pad, or roll for ladies' use. W. Schaefer. No. 914,191; Mar. 2; Sp. p. 1154; Gaz. vol. 140; p. 186.  
 Hair-growing device. F. G. Daggett and E. G. Slinghart. No. 938,125; Oct. 26; Sp. p. 5283; Gaz. vol. 147; p. 904.  
 Hair-net. A. Burnet, H. Temple, and L. Pfeiffer. No. 915,933; Mar. 23; Sp. p. 4674; Gaz. vol. 140; p. 829.  
 Hair ornament. A. Hochheimer. No. 925,340; June 15; Sp. p. 4717; Gaz. vol. 143; p. 805.  
 Hair-pin. A. G. Needs. No. 910,715; Jan. 26; Sp. p. 4673; Gaz. vol. 138; p. 849.  
 Hair-pin. L. P. Shaw. No. 913,061; Feb. 23; Sp. p. 4208; Gaz. vol. 139; p. 761.  
 Hair-pin. C. A. Dunbar. No. 935,969; Oct. 5; Sp. p. 789; Gaz. vol. 147; p. 117.  
 Hair-pin. B. L. Scott. No. 938,715; Nov. 2; Sp. p. 582; Gaz. vol. 148; p. 91.  
 Hair-pin holder. S. H. Goldberg. No. 940,801; Nov. 23; Sp. p. 5240; Gaz. vol. 148; p. 889.  
 Hair puffs and curls, Device for making. J. A. Davis. No. 920,439; May 4; Sp. p. 710; Gaz. vol. 142; p. 112.  
 Hair-roll. L. E. Renth. No. 930,688; Aug. 10; Sp. p. 2183; Gaz. vol. 145; p. 381.  
 Hair-roll and comb, Combined. H. Feder. No. 913,369; Feb. 23; Sp. p. 4835; Gaz. vol. 139; p. 866.  
 Hair-roll and comb, Combined. H. Feder. No. 916,925; Mar. 30; Sp. p. 6602; Gaz. vol. 140; p. 1176.  
 Hair-straightener. I. K. Shero. No. 943,321; Dec. 14; Sp. p. 2766; Gaz. vol. 149; p. 467.  
 Hair-supporter. A. M. D. Joseffy and F. Kroehn. No. 917,451; Apr. 6; Sp. p. 979; Gaz. vol. 141; p. 170.  
 Hair-supporter. J. Latsch. No. 942,833; Dec. 7; Sp. p. 1656; Gaz. vol. 149; p. 270.  
 Hair-tonic. E. D. Marshall. No. 915,781; Mar. 23; Sp. p. 4403; Gaz. vol. 140; p. 781.  
 Hair-tonic. T. H. Bartlett. No. 920,902; May 11; Sp. p. 1657; Gaz. vol. 142; p. 296.  
 Hair-tonic. E. M. Waterman and N. Brown. No. 921,027; May 18; Sp. p. 3778; Gaz. vol. 142; p. 665.  
 Hair-tonic. A. P. Riggs. No. 923,999; June 8; Sp. p. 1983; Gaz. vol. 143; p. 329.  
 Hair-tonic. E. Kearney. No. 924,355; June 8; Sp. p. 2755; Gaz. vol. 143; p. 449.  
 Hair-tonic. F. W. E. Müller. No. 939,431; Nov. 9; Sp. p. 2195; Gaz. vol. 148; p. 365.  
 Hair-tonic. S. Tsorones. No. 941,434; Nov. 30; Sp. p. 6604; Gaz. vol. 148; p. 1119.  
 Hair-waver. F. W. Lowe. No. 944,682; Dec. 28; Sp. p. 5704; Gaz. vol. 149; p. 989.  
 Hair waver or curler. J. R. Bux. No. 938,552; Nov. 2; Sp. p. 257; Gaz. vol. 148; p. 37.  
 Hair-waving device. J. C. Bradley. No. 911,571; Feb. 9; Sp. p. 1068; Gaz. vol. 139; p. 208.



*Alphabetical list of inventions—Continued.*

- Hair-waving iron. J. C. Bradley. No. 912,531; Feb. 16; Sp. p. 3122; Gaz. vol. 139; p. 561.
- Hall-stand, step-ladder, ironing-board, &c., Combined. V. J. A. C. Mengers and L. Larsen. No. 944,100; Dec. 21; Sp. p. 4434; Gaz. vol. 149; p. 764.
- Halogenated naphthanthraquinone and making same. M. Isler, A. Lüttringhaus, and H. von Diesbach. No. 941,320; Nov. 23; Sp. p. 6332; Gaz. vol. 148; p. 1059.
- Halter. J. E. Grifen. No. 911,232; Feb. 2; Sp. p. 417; Gaz. vol. 139; p. 72.
- Halter. C. W. Stewart. No. 915,243; Mar. 16; Sp. p. 3290; Gaz. vol. 140; p. 575.
- Halter. C. N. McClintock. No. 925,371; June 15; Sp. p. 4778; Gaz. vol. 143; p. 816.
- Halter. C. N. McClintock. No. 925,372; June 15; Sp. p. 4779; Gaz. vol. 143; p. 816.
- Halter and bridle, Combination. B. Hansen. No. 917,059; Apr. 6; Sp. p. 196; Gaz. vol. 141; p. 37.
- Halter, Combination rope and strap. C. N. McClintock. No. 923,369; June 1; Sp. p. 595; Gaz. vol. 143; p. 86.
- Ham-salter. F. Hachmann. No. 916,441; Mar. 30; Sp. p. 5642; Gaz. vol. 140; p. 1022.
- Hame. J. Wittner. No. 914,689; Mar. 9; Sp. p. 2184; Gaz. vol. 140; p. 367.
- Hame. W. L. Price and H. E. Schenck. No. 942,351; Dec. 7; Sp. p. 680; Gaz. vol. 149; p. 109.
- Hame, Adjustable. G. P., C. E., and A. A. Peterson. No. 921,561; May 11; Sp. p. 3006; Gaz. vol. 142; p. 516.
- Hame and trace connection. F. F. Hodges. No. 939,420; Nov. 9; Sp. p. 2171; Gaz. vol. 148; p. 361.
- Hame and tug connection. B. F. Emery. No. 911,650; Feb. 9; Sp. p. 1252; Gaz. vol. 139; p. 235.
- Hame-clip. J. W. Dunfee. No. 930,945; Aug. 10; Sp. p. 2732; Gaz. vol. 145; p. 465.
- Hame-clip. W. A. Wilson. No. 935,080; Sept. 28; Sp. p. 4245; Gaz. vol. 146; p. 759.
- Hame connection. J. A. McClellan. No. 931,461; Aug. 17; Sp. p. 3881; Gaz. vol. 145; p. 669.
- Hame-fastener. S. Varney. No. 910,031; Jan. 19; Sp. p. 3222; Gaz. vol. 138; p. 594.
- Hame-fastener. C. F. Kolb. No. 920,878; May 4; Sp. p. 1611; Gaz. vol. 142; p. 257.
- Hame-fastener. H. H. Deming. No. 923,955; June 8; Sp. p. 1885; Gaz. vol. 143; p. 315.
- Hame-fastener. P. W. Napierala. No. 925,497; June 22; Sp. p. 5027; Gaz. vol. 143; p. 887.
- Hame-fastener. F. O. York. No. 927,627; July 13; Sp. p. 1926; Gaz. vol. 144; p. 337.
- Hame-fastener. W. L. Roper. No. 931,652; Aug. 17; Sp. p. 4260; Gaz. vol. 145; p. 727.
- Hame-fastener. G. W. Reyer. No. 939,321; Nov. 9; Sp. p. 1923; Gaz. vol. 148; p. 328.
- Hame-fastening. J. A. Long. No. 921,616; May 11; Sp. p. 3125; Gaz. vol. 142; p. 534.
- Hame-fastening. J. H. Bankson. No. 942,160; Dec. 7; Sp. p. 288; Gaz. vol. 149; p. 44.
- Hame-hook-adjusting device. J. F. Nelson. No. 912,877; Feb. 16; Sp. p. 3841; Gaz. vol. 139; p. 677.
- Hame-tugs, Metallic loop for. E. H. Gulliom. No. 925,898; June 22; Sp. p. 5901; Gaz. vol. 143; p. 1019.
- Hames-fastener, Adjustable. J. Oppenheim. No. 940,269; Nov. 16; Sp. p. 4021; Gaz. vol. 148; p. 685.
- Hammer. H. Symonds. No. 911,779; Feb. 9; Sp. p. 1481; Gaz. vol. 139; p. 277.
- Hammer. B. F. Bird. No. 917,840; Apr. 13; Sp. p. 1761; Gaz. vol. 141; p. 323.
- Hammer. H. J. Augustine. No. 920,518; May 4; Sp. p. 861; Gaz. vol. 142; p. 139.
- Hammer. P. H. Bartsch. No. 937,915; Oct. 26; Sp. p. 4827; Gaz. vol. 147; p. 834.
- Hammer and hammer-support. J. E. Akin. No. 914,545; Mar. 9; Sp. p. 1878; Gaz. vol. 140; p. 320.
- Hammer and puller, Combination tack. N. Lund. No. 919,370; Apr. 27; Sp. p. 5179; Gaz. vol. 141; p. 898.
- Hammer and puller, Folding tack. L. Herritt. No. 930,545; Aug. 10; Sp. p. 1899; Gaz. vol. 145; p. 335.
- Hammer and sight, Combined. A. M. Powell. No. 939,085; Nov. 2; Sp. p. 1351; Gaz. vol. 148; p. 220.
- Hammer attachment. D. M. Eddy. No. 922,568; May 25; Sp. p. 5090; Gaz. vol. 142; p. 903.
- Hammer, Bush-. O. E. Knabe. No. 915,299; Mar. 16; Sp. p. 3397; Gaz. vol. 140; p. 593.
- Hammer button-set, Pneumatic-. A. J. McQuaide. No. 919,924; Apr. 27; Sp. p. 6347; Gaz. vol. 141; p. 1085.
- Hammer-drill. D. S. Waugh. No. 919,270; Apr. 20; Sp. p. 4940; Gaz. vol. 141; p. 829.
- Hammer, Drop-. J. W. Wagner. No. 916,231; Mar. 23; Sp. p. 5241; Gaz. vol. 140; p. 926.
- Hammer, Drop-. J. Béché. No. 920,106; May 4; Sp. p. 7; Gaz. vol. 142; p. 3.
- Hammer, Drop-. L. P. Blot. No. 942,708; Dec. 7; Sp. p. 1395; Gaz. vol. 149; p. 229.
- Hammer drop-board, Drop-. W. E. Firth. No. 914,560; Mar. 9; Sp. p. 1908; Gaz. vol. 140; p. 325.
- Hammer, Electric power-. W. Scribner. No. 924,195; June 8; Sp. p. 2409; Gaz. vol. 143; p. 393.
- Hammer, Electric power-. T. F. Baily. No. 930,022; Aug. 3; Sp. p. 840; Gaz. vol. 145; p. 136.
- Hammer, Explosion power-. R. S. Oberly. No. 929,696; Aug. 3; Sp. p. 112; Gaz. vol. 145; p. 21.
- Hammer, Fluid-pressure. L. E. Howard. No. 931,609; Aug. 17; Sp. p. 4144; Gaz. vol. 145; p. 714.
- Hammer, Foot-power. O. W. Mielenz. No. 944,140; Dec. 21; Sp. p. 4529; Gaz. vol. 149; p. 777.
- Hammer, Magazine-. M. S. Hammer. No. 917,291; Apr. 6; Sp. p. 688; Gaz. vol. 141; p. 117.
- Hammer, Magazine tack-. N. M. Purviance. No. 932,412; Aug. 24; Sp. p. 5865; Gaz. vol. 145; p. 1001.
- Hammer, Mechanical. J. M. Swanson. No. 934,701; Sept. 21; Sp. p. 3479; Gaz. vol. 146; p. 606.
- Hammer nail-holding attachment. P. Carlson. No. 937,987; Oct. 26; Sp. p. 4978; Gaz. vol. 147; p. 858.
- Hammer, Numbering-. F. Fröll. No. 920,995; May 11; Sp. p. 1836; Gaz. vol. 142; p. 325.
- Hammer or the like, Drop-. E. Holmgren. No. 937,938; Oct. 26; Sp. p. 4878; Gaz. vol. 147; p. 842.
- Hammer, Pneumatic. H. B. Stocks and J. R. Webb, Jr. No. 908,515; Jan. 5; Sp. p. 165; Gaz. vol. 138; p. 30.
- Hammer, Pneumatic. A. J. Doughty. No. 912,234; Feb. 9; Sp. p. 2442; Gaz. vol. 139; p. 421.
- Hammer, Pneumatic. J. Boyer. No. 917,242; Apr. 6; Sp. p. 573; Gaz. vol. 141; p. 100.
- Hammer, Pneumatic. V. E. Lane. No. 919,035; Apr. 20; Sp. p. 4313; Gaz. vol. 141; p. 754.
- Hammer, Pneumatic. H. A. Brockway. No. 924,531; June 8; Sp. p. 3081; Gaz. vol. 143; p. 504.
- Hammer, Pneumatic. W. Baxter, Jr. No. 935,634; Oct. 5; Sp. p. 13; Gaz. vol. 147; p. 4.
- Hammer, Pneumatic. H. H. Grobes. No. 939,828; Nov. 9; Sp. p. 3038; Gaz. vol. 148; p. 501.
- Hammer, Pneumatic power-. A. Berner. No. 942,163; Dec. 7; Sp. p. 293; Gaz. vol. 149; p. 45.
- Hammer, Power-. H. J. C. Keymer. No. 926,987; July 6; Sp. p. 575; Gaz. vol. 144; p. 95.
- Hammer, Power-. F. Raymond. No. 934,355; Sept. 14; Sp. p. 2791; Gaz. vol. 146; p. 465.
- Hammer, Power-. W. Graham. No. 936,316; Oct. 12; Sp. p. 1475; Gaz. vol. 147; p. 255.
- Hammer, Power-. J. L. Painter. No. 941,093; Nov. 23; Sp. p. 5840; Gaz. vol. 148; p. 985.
- Hammer, Power-. T. Scott-King and W. Norris. No. 942,756; Dec. 7; Sp. p. 1491; Gaz. vol. 149; p. 245.
- Hammer, Steam-. T. E. Holmes. No. 929,433; July 27; Sp. p. 5662; Gaz. vol. 144; p. 994.
- Hammer with shingle-cutting attachment. B. M. Wells and F. W. Simister. No. 920,228; May 4; Sp. p. 276; Gaz. vol. 142; p. 44.
- Hammers, Die-holder for drop-. W. F. Gorton. No. 940,005; Nov. 16; Sp. p. 3428; Gaz. vol. 148; p. 591.
- Hammers, Lifting-board for drop-. G. W. Conklin. No. 940,956; Nov. 23; Sp. p. 5552; Gaz. vol. 148; p. 940.
- Hammers or hatchets, Nail-holder for. W. E. Wieland. No. 932,211; Aug. 24; Sp. p. 5489; Gaz. vol. 145; p. 935.
- Hammers, Valve system for. C. B. Albee. No. 932,421; Aug. 24; Sp. p. 5879; Gaz. vol. 145; p. 1003.
- Hammers, Water attachment for pneumatic. C. T. Carnahan and J. Murphy. No. 940,510; Nov. 16; Sp. p. 4595; Gaz. vol. 148; p. 766.
- Hammock. J. J. Maxwell. No. 909,102; Jan. 5; Sp. p. 1374; Gaz. vol. 138; p. 220.
- Hammock. A. Wisch. No. 916,517; Mar. 30; Sp. p. 3839; Gaz. vol. 140; p. 1047.
- Hammock. R. C. Funke. No. 934,516; Sept. 21; Sp. p. 3112; Gaz. vol. 146; p. 543.
- Hammock attachment. I. E. Palmer. No. 921,623; May 11; Sp. p. 3145; Gaz. vol. 142; p. 538.
- Hammock, Bed-. G. F. Hoffman. No. 917,866; Apr. 13; Sp. p. 1819; Gaz. vol. 141; p. 333.
- Hammock, Couch-. I. E. Palmer. No. 917,650; Apr. 6; Sp. p. 1338; Gaz. vol. 141; p. 236.
- Hammock, Couch-. W. J. McBride. No. 937,258; Oct. 19; Sp. p. 3465; Gaz. vol. 147; p. 599.
- Hammock, Couch-. I. E. Palmer. No. 944,814; Dec. 28; Sp. p. 6008; Gaz. vol. 149; p. 1034.
- Hammock-frame, Collapsible or folding. E. L. Hyller. No. 935,513; Sept. 28; Sp. p. 5114; Gaz. vol. 146; p. 899.
- Hammock, Metallic. I. Meyer. No. 913,750; Mar. 2; Sp. p. 156; Gaz. vol. 140; p. 26.
- Hammock or swinging seat and supporting-frame therefor. W. S. Bowie. No. 911,570; Feb. 9; Sp. p. 1066; Gaz. vol. 139; p. 208.
- Hammock-stand. J. B. Patterson. No. 933,919; Sept. 14; Sp. p. 1956; Gaz. vol. 146; p. 322.
- Hammock-stand. J. B. Patterson. No. 933,920; Sept. 14; Sp. p. 1957; Gaz. vol. 146; p. 322.
- Hammock-stand. J. B. Patterson. No. 933,921; Sept. 14; Sp. p. 1958; Gaz. vol. 146; p. 322.
- Hammock-stand. J. B. Patterson. No. 940,939; Nov. 23; Sp. p. 5521; Gaz. vol. 148; p. 934.
- Hammock-stand. J. Hand. No. 944,784; Dec. 28; Sp. p. 5935; Gaz. vol. 149; p. 1024.
- Hammock-support. J. J. Shultz. No. 925,044; June 15; Sp. p. 4181; Gaz. vol. 143; p. 711.
- Hammock-support. G. H. Buck. No. 944,661; Dec. 28; Sp. p. 5668; Gaz. vol. 149; p. 983.
- Hammock-supporting frame. M. D. Wolf. No. 935,445; Sept. 28; Sp. p. 4961; Gaz. vol. 146; p. 876.
- Hammock-suspension device. W. J. McBride. No. 922,023; May 18; Sp. p. 3984; Gaz. vol. 142; p. 697.
- Hammocks, Collapsible or folding frame for. K. L. Hyller. No. 915,182; Mar. 16; Sp. p. 3164; Gaz. vol. 140; p. 555.
- Hammocks, &c., Resilient bottom for couch-. I. E. Palmer. No. 942,841; Dec. 7; Sp. p. 1666; Gaz. vol. 149; p. 273.
- Hamper, Hanging. M. L. Froehlich and M. F. Morison. No. 914,652; Mar. 9; Sp. p. 2081; Gaz. vol. 140; p. 354.

*Alphabetical list of inventions—Continued.*

- Hand, Artificial. A. F. Nelson. No. 908,881; Jan. 5; Sp. p. 928; Gaz. vol. 138; p. 143.  
 Hand, Artificial. W. A. Hennessey. No. 941,197; Nov. 23; Sp. p. 6081; Gaz. vol. 148; p. 1020.  
 Hand-bag. A. Staeger. No. 909,248; Jan. 12; Sp. p. 1671; Gaz. vol. 138; p. 301.  
 Hand-bag, &c. T. R. Weidemann. No. 910,619; Jan. 26; Sp. p. 4501; Gaz. vol. 138; p. 820.  
 Hand-bag. C. T. Slade. No. 910,875; Jan. 26; Sp. p. 4993; Gaz. vol. 138; p. 901.  
 Hand-bag. F. J. Flanagan. No. 920,852; May 4; Sp. p. 1540; Gaz. vol. 142; p. 248.  
 Hand-bag. L. Merzbach. No. 924,172; June 8; Sp. p. 2353; Gaz. vol. 143; p. 385.  
 Hand-bag. A. Schönberg. No. 928,801; July 20; Sp. p. 4344; Gaz. vol. 144; p. 757.  
 Hand-hook. H. A. Waterman. No. 920,700; May 4; Sp. p. 1252; Gaz. vol. 142; p. 199.  
 Hand lifting device. G. Keller. No. 909,909; Jan. 19; Sp. p. 2982; Gaz. vol. 138; p. 553.  
 Hand-strap. R. L. Douglass. No. 921,094; May 11; Sp. p. 2048; Gaz. vol. 142; p. 360.  
 Hand-wheel. A. Hallowell. No. 935,019; Sept. 28; Sp. p. 4108; Gaz. vol. 146; p. 736.  
 Handcuff. H. E. Wood. No. 930,014; Aug. 3; Sp. p. 828; Gaz. vol. 145; p. 135.  
 Handcuff-lock. H. E. Wood. No. 930,013; Aug. 3; Sp. p. 826; Gaz. vol. 145; p. 133.  
 Handcuff. M. Mitchell. No. 936,797; Oct. 12; Sp. p. 2506; Gaz. vol. 147; p. 417.  
 Handle. See Adjustable handle; Basket-handle; Blade and handle; Book-strap handle; Brake-handle; Brush-handle; Car-controller-operating handle; Casket-handle; Controller-handle; Crank-handle; Cycle-handle; Detachable handle; Implement-handle; Knife-handle; Mop or brush handle; Package-handle; Pan-handle; Saw-handle; Scoop-handle; Sewing-machine-wheel handle; Sheet-metal handle; Shovel, &c., handle; Stopping-handle; Switch-handle; Tool-handle; Tool sectional tubular handle; Tool tubular handle; Trunk-handle; Umbrella-handle; Utensil-handle; Valve-handle.  
 Handle. J. O. Davison. No. 910,648; Jan. 26; Sp. p. 4557; Gaz. vol. 138; p. 829.  
 Handle. R. R. Brakeman. No. 928,101; July 13; Sp. p. 2884; Gaz. vol. 144; p. 493.  
 Handle. J. P. Durkin. No. 928,950; July 27; Sp. p. 4649; Gaz. vol. 144; p. 834.  
 Handle. G. A. Schehr. No. 939,352; Nov. 9; Sp. p. 1940; Gaz. vol. 148; p. 332.  
 Handle attachment. F. E. Whitney. No. 911,791; Feb. 9; Sp. p. 1503; Gaz. vol. 139; p. 280.  
 Handle-bar bracket, Adjustable. S. E. Purdum. No. 921,457; May 11; Sp. p. 2806; Gaz. vol. 142; p. 482.  
 Handle-fastening. H. V. Jones. No. 914,846; Mar. 9; Sp. p. 2506; Gaz. vol. 140; p. 419.  
 Handle for removable closures for receptacles. A. H. S. Swan. No. 910,605; Jan. 26; Sp. p. 4475; Gaz. vol. 138; p. 816.  
 Handle-loop. W. S. Maxwell. No. 931,698; Aug. 17; Sp. p. 4376; Gaz. vol. 143; p. 743.  
 Handling shaped masses of incoherent material, Apparatus for. W. Cox. No. 920,275; May 4; Sp. p. 404; Gaz. vol. 142; p. 61.  
 Handling shaped or molded masses of incoherent material. W. Cox. No. 920,276; May 4; Sp. p. 405; Gaz. vol. 142; p. 61.  
 Hanger. See Adjustable hanger; Apparel-hanger; Bedstead rail-hanger; Bicycle crank-hanger; Boiler-hanger; Brake-hanger; Brake-beam hanger; Broom-hanger; Cable-hanger; Car-door hanger; Clothes-hanger; Clothes-line hanger; Coat-hanger; Corn-hanger; Crank-hanger; Curtain and shade hanger; Curtain-pole support and shade-roller hanger; Display-hanger; Door-hanger; Dry-room hanger; Electric-light hanger; Garment-hanger; Gutter-hanger; Harness-hanger; Hat-hanger; Hat and coat hanger; Hinge-hanger; Hinge and article hanger; Hog-hanger; Insulated hanger; Joist-hanger; Kettle-hanger; Mail-bag hanger; Meat-hanger; Merchandise-hanger; Messenger-hanger; Music-desk hanger; Picture-hanger; Pipe-hanger; Plaque-hanger; Poultry-hanger; Railway-track hanger; Rug-hanger; Sash-hanger; Sash or screen hanger; Saw-hanger; Scaffold-hanger; Scale-spring hanger; Screen-hanger; Shade-hanger; Shade and curtain hanger; Shaft-hanger; Shock-absorber hanger; Sieve-hanger; Signal-cord hanger; Skirt-hanger; Smoke-shade hanger; Tank-hanger; Track-hanger; Transfer-hanger; Trolley-hanger; Trolley-conductor hanger; Trolley-wire hanger; Trousers-hanger; Wire-hanger.  
 Hanger. J. Bergquist. No. 914,013; Mar. 2; Sp. p. 784; Gaz. vol. 140; p. 120.  
 Hanger. L. Roehm. No. 917,140; Apr. 6; Sp. p. 376; Gaz. vol. 141; p. 65.  
 Hanging-clasp. J. M. Lamadrid. No. 918,337; Apr. 13; Sp. p. 2793; Gaz. vol. 141; p. 494.  
 Hanging means. W. W. Grant. No. 924,764; June 15; Sp. p. 3591; Gaz. vol. 143; p. 617.  
 Hank-dyeing machine. J. H. Ashwell. No. 909,513; Jan. 12; Sp. p. 2193; Gaz. vol. 138; p. 389.  
 Harmonica. R. L. Lanier, Sr. No. 925,778; June 22; Sp. p. 5645; Gaz. vol. 143; p. 979.  
 Harmonica attachment. R. J. Fraser. No. 922,121; May 18; Sp. p. 4165; Gaz. vol. 142; p. 728.  
 Harmonica attachment. W. F. Newsam. No. 923,689; June 1; Sp. p. 1271; Gaz. vol. 143; p. 198.  
 Harmonic signaling system. R. H. Manson. No. 942,091; Dec. 7; Sp. p. 119; Gaz. vol. 149; p. 13.  
 Harness. F. K. Schumaker. No. 908,891; Jan. 5; Sp. p. 950; Gaz. vol. 138; p. 151.  
 Harness. W. S. Ringstaff. No. 916,599; Mar. 30; Sp. p. 5987; Gaz. vol. 140; p. 1074.  
 Harness. A. A. Chaney. No. 921,587; May 11; Sp. p. 3046; Gaz. vol. 142; p. 523.  
 Harness. C. R. Austin. No. 927,924; July 13; Sp. p. 2560; Gaz. vol. 144; p. 435.  
 Harness. D. F. Valentine. No. 932,238; Aug. 24; Sp. p. 5543; Gaz. vol. 145; p. 944.  
 Harness. M. B. Gooling. No. 934,304; Sept. 14; Sp. p. 2701; Gaz. vol. 146; p. 448.  
 Harness. H. H. Crawford. No. 939,985; Nov. 16; Sp. p. 3338; Gaz. vol. 148; p. 584.  
 Harness. G. A. Humason. No. 943,020; Dec. 14; Sp. p. 2139; Gaz. vol. 149; p. 366.  
 Harness and vehicle releasing device. W. H. Davis. No. 916,422; Mar. 30; Sp. p. 5607; Gaz. vol. 140; p. 1016.  
 Harness and warp stop-motion, Combination. H. Anner and M. J. Marnel. No. 936,847; Oct. 12; Sp. p. 2601; Gaz. vol. 147; p. 434.  
 Harness appliance. D. S. Lepley. No. 923,434; June 1; Sp. p. 724; Gaz. vol. 143; p. 107.  
 Harness attachment. J. Cummings and J. D. Leen. No. 915,076; Mar. 16; Sp. p. 2914; Gaz. vol. 140; p. 519.  
 Harness attachment. P. M. Stevens. No. 935,173; Sept. 28; Sp. p. 4426; Gaz. vol. 146; p. 789.  
 Harness clamp and guide. G. M. Henry. No. 930,287; Aug. 3; Sp. p. 1346; Gaz. vol. 145; p. 223.  
 Harness-connector. C. A. Jacky and J. Rupp. No. 910,820; Jan. 26; Sp. p. 4899; Gaz. vol. 138; p. 884.  
 Harness-connector. C. A. Jacky and J. Rupp. No. 917,949; Apr. 13; Sp. p. 1992; Gaz. vol. 141; p. 362.  
 Harness-dressing. R. F. Meader. No. 943,754; Dec. 21; Sp. p. 3714; Gaz. vol. 149; p. 646.  
 Harness-girth. A. Nicoll. No. 919,063; Apr. 20; Sp. p. 4359; Gaz. vol. 141; p. 761.  
 Harness-hanger. J. A. Pierson. No. 910,573; Jan. 26; Sp. p. 4393; Gaz. vol. 138; p. 805.  
 Harness-hanger. W. L. Taylor. No. 933,931; Sept. 14; Sp. p. 1972; Gaz. vol. 146; p. 325.  
 Harness hanger and stretcher, Combined. J. Billmyer. No. 914,548; Mar. 9; Sp. p. 1883; Gaz. vol. 140; p. 321.  
 Harness line-support. O. Heidingsfeld and T. Hammond. No. 922,279; May 18; Sp. p. 4496; Gaz. vol. 142; p. 780.  
 Harness-loop. C. J. Cooper. No. 920,027; Apr. 27; Sp. p. 6549; Gaz. vol. 141; p. 1117.  
 Harness-maker's stitching-horse. H. J. Bowman. No. 912,795; Feb. 16; Sp. p. 3709; Gaz. vol. 139; p. 652.  
 Harness pneumatic pad. J. M. Kelly and F. L. Rankin. No. 910,689; Jan. 26; Sp. p. 4623; Gaz. vol. 138; p. 841.  
 Harness-saddle. C. H. Grings. No. 911,037; Feb. 2; Sp. p. 28; Gaz. vol. 139; p. 7.  
 Harness shaft-loop. W. N. Heaton. No. 912,374; Feb. 16; Sp. p. 2789; Gaz. vol. 139; p. 508.  
 Harness-stay. G. L. Forman. No. 911,965; Feb. 9; Sp. p. 1921; Gaz. vol. 139; p. 338.  
 Harness-suspending means. J. Howard. No. 922,904; May 25; Sp. p. 5799; Gaz. vol. 142; p. 1011.  
 Harness-winker. M. J. Rau. No. 911,443; Feb. 2; Sp. p. 802; Gaz. vol. 139; p. 140.  
 Harrow. S. F. Horner. No. 910,541; Jan. 26; Sp. p. 4315; Gaz. vol. 138; p. 793.  
 Harrow. F. Germon. No. 913,639; Feb. 23; Sp. p. 5438; Gaz. vol. 139; p. 957.  
 Harrow. G. J. Hake. No. 915,289; Mar. 16; Sp. p. 3373; Gaz. vol. 140; p. 589.  
 Harrow. J. X. Mills. No. 919,053; Apr. 20; Sp. p. 4349; Gaz. vol. 141; p. 759.  
 Harrow. J. M. Larsh. No. 920,069; Apr. 27; Sp. p. 6650; Gaz. vol. 141; p. 1132.  
 Harrow. X. T. J. Jones. No. 920,474; May 4; Sp. p. 768; Gaz. vol. 142; p. 124.  
 Harrow. W. A. Kelly and C. W. Smith. No. 920,581; May 4; Sp. p. 985; Gaz. vol. 142; p. 160.  
 Harrow. N. C. Hale. No. 921,608; May 11; Sp. p. 3111; Gaz. vol. 142; p. 532.  
 Harrow. F. Hosford. No. 923,845; June 8; Sp. p. 1684; Gaz. vol. 143; p. 279.  
 Harrow. L. F. Wheelless. No. 924,517; June 8; Sp. p. 3049; Gaz. vol. 143; p. 499.  
 Harrow. P. Hari. No. 928,046; July 13; Sp. p. 2800; Gaz. vol. 144; p. 477.  
 Harrow. O. H. Olson. No. 929,105; July 27; Sp. p. 4972; Gaz. vol. 144; p. 885.  
 Harrow. C. A. McCarthy. No. 930,310; Aug. 3; Sp. p. 1387; Gaz. vol. 145; p. 230.  
 Harrow. J. Mattern. No. 933,719; Sept. 7; Sp. p. 1550; Gaz. vol. 146; p. 235.  
 Harrow. E. Haiman. No. 937,239; Oct. 19; Sp. p. 3419; Gaz. vol. 147; p. 591.  
 Harrow. T. W. Robinson. No. 937,719; Oct. 19; Sp. p. 4419; Gaz. vol. 147; p. 750.  
 Harrow. E. D. Orton. No. 937,848; Oct. 26; Sp. p. 4694; Gaz. vol. 147; p. 812.  
 Harrow. R. C. Bowman. No. 940,501; Nov. 16; Sp. p. 4574; Gaz. vol. 148; p. 764.  
 Harrow. G. A. Olson. No. 942,511; Dec. 7; Sp. p. 1016; Gaz. vol. 149; p. 164.  
 Harrow. J. C. Baumgarten. No. 942,879; Dec. 14; Sp. p. 1798; Gaz. vol. 149; p. 318.  
 Harrow. J. H. Lindsey. No. 943,690; Dec. 21; Sp. p. 3580; Gaz. vol. 149; p. 624.  
 Harrow. E. A. Conklin. No. 944,415; Dec. 28; Sp. p. 5118; Gaz. vol. 149; p. 899.  
 Harrow. C. W. Olson. No. 944,690; Dec. 28; Sp. p. 5736; Gaz. vol. 149; p. 993.



*Alphabetical list of inventions—Continued.*

- Harrow, Alfalfa- L. E. Waterman. No. 930,250; Aug. 3; Sp. p. 1285; Gaz. vol. 145; p. 212.  
Harrow, Alfalfa- E. F. Price. No. 942,516; Dec. 7; Sp. p. 1023; Gaz. vol. 149; p. 163.  
Harrow and weeder, Combined. J. O. Richmond. No. 938,398; Oct. 26; Sp. p. 5887; Gaz. vol. 147; p. 999.  
Harrow attachment. M. A. Jackson and J. A. Bristow. No. 934,313; Sept. 14; Sp. p. 2718; Gaz. vol. 146; p. 451.  
Harrow attachment, Disk- V. E. Hulse. No. 931,928; Aug. 24; Sp. p. 4900; Gaz. vol. 145; p. 841.  
Harrow attachment for plows. C. H. Myers. No. 928,210; July 13; Sp. p. 3117; Gaz. vol. 144; p. 531.  
Harrow attachments with plow-frames, Bracket for connecting. E. M. Kramer. No. 934,443; Sept. 21; Sp. p. 2978; Gaz. vol. 146; p. 519.  
Harrow, Cultivating- J. Bradford. No. 913,256; Feb. 23; Sp. p. 4611; Gaz. vol. 139; p. 827.  
Harrow, Disk- F. B. Niesz. No. 916,361; Mar. 23; Sp. p. 5466; Gaz. vol. 140; p. 970.  
Harrow, Disk- W. C. King. No. 917,455; Apr. 6; Sp. p. 987; Gaz. vol. 141; p. 172.  
Harrow, Disk- A. E. Fox and G. M. Reeves. No. 930,466; Aug. 10; Sp. p. 1699; Gaz. vol. 145; p. 307.  
Harrow, Disk- C. S. Sharp. No. 940,203; Nov. 16; Sp. p. 3903; Gaz. vol. 148; p. 662.  
Harrow, Disk- H. Christensen. No. 940,923; Nov. 23; Sp. p. 5476; Gaz. vol. 148; p. 928.  
Harrow disk, Disk- A. E. Fox and G. M. Reeves. No. 930,951; Aug. 10; Sp. p. 2750; Gaz. vol. 145; p. 468.  
Harrow, Drum. S. B. Clardy. No. 942,376; Dec. 7; Sp. p. 719; Gaz. vol. 149; p. 117.  
Harrow-evenner. J. E. Scott. No. 941,104; Nov. 23; Sp. p. 5865; Gaz. vol. 148; p. 989.  
Harrow, Guarded-end steel-lever. W. E. Johnson. No. 940,160; Nov. 16; Sp. p. 3790; Gaz. vol. 148; p. 646.  
Harrow, Independent-tooth-bar. H. Nestette. No. 929,160; July 27; Sp. p. 5091; Gaz. vol. 144; p. 904.  
Harrow or cultivator. J. Courtenay. No. 922,671; May 25; Sp. p. 5298; Gaz. vol. 142; p. 936.  
Harrow, Revolving. W. Grafe. No. 919,570; Apr. 27; Sp. p. 5623; Gaz. vol. 141; p. 965.  
Harrow, Revolving. L. E. Waterman. No. 930,251; Aug. 3; Sp. p. 1287; Gaz. vol. 145; p. 212.  
Harrow, Revolving. L. E. Waterman. No. 930,252; Aug. 3; Sp. p. 1287; Gaz. vol. 145; p. 212.  
Harrow riding attachment. J. R. Trotter. No. 912,048; Feb. 9; Sp. p. 2113; Gaz. vol. 133; p. 364.  
Harrow riding attachment. M. Eisele. No. 916,850; Mar. 30; Sp. p. 6444; Gaz. vol. 140; p. 1151.  
Harrow riding attachment. A. Travnick. No. 929,052; July 27; Sp. p. 4856; Gaz. vol. 144; p. 868.  
Harrow, roller, and cutter, Combined rotary. J. H. Stewart and J. C. Heinicke. No. 930,323; Aug. 3; Sp. p. 1409; Gaz. vol. 145; p. 234.  
Harrow scraper, Disk- F. B. Niesz. No. 935,680; Oct. 5; Sp. p. 123; Gaz. vol. 147; p. 20.  
Harrow-teeth, Fastener for. W. A. Bennett. No. 930,925; Aug. 10; Sp. p. 2684; Gaz. vol. 145; p. 459.  
Harrow-tooth fastener. J. A. Johnson. No. 924,993; June 15; Sp. p. 4078; Gaz. vol. 143; p. 694.  
Harrow-tooth fastener. E. M. Rich. No. 942,412; Dec. 7; Sp. p. 793; Gaz. vol. 149; p. 129.  
Harrow-tooth fastening. H. M. Hughes. No. 914,278; Mar. 2; Sp. p. 1328; Gaz. vol. 140; p. 205.  
Harrow-tooth, Revolving. D. J. Hoover. No. 937,607; Oct. 13; Sp. p. 4192; Gaz. vol. 147; p. 714.  
Harrow-transport and clod-crusher, Combined. A. C. Newcomer. No. 916,478; Mar. 30; Sp. p. 5733; Gaz. vol. 140; p. 1035.  
Harrows, Adjustable evenner for. J. C. Jordan. No. 916,560; Mar. 30; Sp. p. 5917; Gaz. vol. 140; p. 1061.  
Harrows, Connecting-bar for. G. Anderson. No. 942,532; Dec. 7; Sp. p. 1057; Gaz. vol. 149; p. 171.  
Harrows, Lock-jointed foldable draft-beam for sectional. E. C. Clausen. No. 927,713; July 13; Sp. p. 2104; Gaz. vol. 144; p. 365.  
Harrows, Separable sectional draft-beam for. W. Wilson. No. 941,177; Nov. 23; Sp. p. 6032; Gaz. vol. 148; p. 1014.  
Harvester. A. J. Parton. No. 911,754; Feb. 9; Sp. p. 1441; Gaz. vol. 139; p. 269.  
Harvester. C. M. McCormick. No. 913,421; Feb. 23; Sp. p. 4939; Gaz. vol. 139; p. 884.  
Harvester. C. M. McCormick. No. 913,422; Feb. 23; Sp. p. 4941; Gaz. vol. 139; p. 884.  
Harvester. A. M. Anderson and C. Quesnell. No. 920,001; Apr. 27; Sp. p. 6495; Gaz. vol. 141; p. 1109.  
Harvester. H. J. Holly. No. 921,110; May 11; Sp. p. 2074; Gaz. vol. 142; p. 366.  
Harvester. P. O. Kartrude. No. 932,291; Aug. 24; Sp. p. 5643; Gaz. vol. 145; p. 962.  
Harvester. R. Y. Gregg. No. 936,121; Oct. 5; Sp. p. 1095; Gaz. vol. 147; p. 167.  
Harvester and like draft adjustment. A. R. Blewett. No. 937,410; Oct. 19; Sp. p. 3791; Gaz. vol. 147; p. 647.  
Harvester and picker, Bean and peanut. M. P. Calkins. No. 944,945; Dec. 28; Sp. p. 6267; Gaz. vol. 149; p. 1077.  
Harvester attachment. M. Molitor. No. 937,085; Oct. 19; Sp. p. 3078; Gaz. vol. 147; p. 541.  
Harvester, Beet- L. Gettelmann. No. 919,342; Apr. 27; Sp. p. 5115; Gaz. vol. 141; p. 887.  
Harvester, Beet- J. T. Carroll. No. 922,084; May 18; Sp. p. 4101; Gaz. vol. 142; p. 716.  
Harvester, Beet- E. A. Hollenbeck and E. W. Reed. No. 924,905; June 15; Sp. p. 3892; Gaz. vol. 143; p. 664.  
Harvester, Beet- M. H. Wadhams. No. 926,837; July 6; Sp. p. 273; Gaz. vol. 144; p. 44.  
Harvester, Beet- J. D. De Celle. No. 929,921; Aug. 3; Sp. p. 638; Gaz. vol. 145; p. 101.  
Harvester, Beet- J. Bennett. No. 930,339; Aug. 10; Sp. p. 1447; Gaz. vol. 145; p. 264.  
Harvester, Beet- F. E. Newlon. No. 931,789; Aug. 24; Sp. p. 4593; Gaz. vol. 145; p. 796.  
Harvester, Beet- M. J. Ely. No. 933,026; Aug. 31; Sp. p. 7148; Gaz. vol. 145; p. 1228.  
Harvester, Beet- F. C. Harding. No. 937,994; Oct. 26; Sp. p. 4991; Gaz. vol. 147; p. 861.  
Harvester, Beet- H. V., O. S., and C. F. Lee. No. 938,881; Nov. 2; Sp. p. 936; Gaz. vol. 148; p. 148.  
Harvester, Beet- G. A. Pingree. No. 940,189; Nov. 16; Sp. p. 3864; Gaz. vol. 148; p. 656.  
Harvester bundle-carrying attachment. A. Anderson. No. 909,855; Jan. 19; Sp. p. 2861; Gaz. vol. 138; p. 535.  
Harvester-conveyer. A. M. Anderson and C. Quesnell. No. 926,043; June 22; Sp. p. 6175; Gaz. vol. 143; p. 1066.  
Harvester, Corn- S. Mohler. No. 914,494; Mar. 9; Sp. p. 1765; Gaz. vol. 140; p. 303.  
Harvester, Corn- J. Hettrich. No. 917,606; Apr. 6; Sp. p. 1253; Gaz. vol. 141; p. 221.  
Harvester, Corn- A. Stewart. No. 917,677; Apr. 6; Sp. p. 1383; Gaz. vol. 141; p. 244.  
Harvester, Corn- A. E. Combs. No. 917,846; Apr. 13; Sp. p. 1771; Gaz. vol. 141; p. 325.  
Harvester, Corn- J. A. Stone. No. 920,210; May 4; Sp. p. 242; Gaz. vol. 142; p. 38.  
Harvester, Corn- C. A. Bullard. No. 923,326; June 1; Sp. p. 501; Gaz. vol. 143; p. 72.  
Harvester, Corn- J. A. Stone. No. 925,526; June 22; Sp. p. 5089; Gaz. vol. 143; p. 896.  
Harvester, Corn- T. H. Butler and F. M. Wideman. No. 925,749; June 22; Sp. p. 5557; Gaz. vol. 143; p. 969.  
Harvester, Corn- B. E. Reed. No. 938,335; Oct. 26; Sp. p. 5733; Gaz. vol. 147; p. 976.  
Harvester, Corn- J. W. From. No. 942,820; Dec. 7; Sp. p. 1618; Gaz. vol. 149; p. 266.  
Harvester, Cotton- E. Ackers. No. 916,522; Mar. 30; Sp. p. 5846; Gaz. vol. 140; p. 1049.  
Harvester, Cotton- J. M. Droke. No. 923,343; June 1; Sp. p. 539; Gaz. vol. 143; p. 77.  
Harvester, Cotton- A. W. Johnson. No. 928,662; July 20; Sp. p. 4083; Gaz. vol. 144; p. 711.  
Harvester, Cotton- C. N. Goodwin. No. 939,008; Nov. 2; Sp. p. 1205; Gaz. vol. 148; p. 192.  
Harvester, Pea- A. McMahon. No. 936,733; Oct. 12; Sp. p. 2379; Gaz. vol. 147; p. 396.  
Harvester picking-spindle, Cotton- O. C. Houghton. No. 931,926; Aug. 24; Sp. p. 4897; Gaz. vol. 145; p. 840.  
Harvester, Potato- L. Kniffen. No. 922,915; May 25; Sp. p. 5821; Gaz. vol. 142; p. 1015.  
Harvester, Potato- J. Lood. No. 936,333; Oct. 12; Sp. p. 1507; Gaz. vol. 147; p. 260.  
Harvester-reel. W. C. Leer. No. 925,359; June 15; Sp. p. 4758; Gaz. vol. 143; p. 813.  
Harvester-reel attachment. A. M. Sonnichsen. No. 925,664; June 22; Sp. p. 5373; Gaz. vol. 143; p. 941.  
Harvester-reel support. J. A. Scanland. No. 941,655; Nov. 30; Sp. p. 7056; Gaz. vol. 148; p. 1192.  
Harvester, Root-crop. J. M. Bourland. No. 914,232; Mar. 2; Sp. p. 1235; Gaz. vol. 140; p. 193.  
Harvester sack-chute attachment. J. Martyn. No. 916,884; Mar. 30; Sp. p. 6502; Gaz. vol. 140; p. 1162.  
Harvester shocker attachment. E. W. Fritz. No. 917,282; Apr. 6; Sp. p. 665; Gaz. vol. 141; p. 113.  
Harvester sickle-drive. H. H. Kryger. No. 925,352; June 15; Sp. p. 4745; Gaz. vol. 143; p. 810.  
Harvester snapping-roller, Corn- J. A. Stone. No. 914,465; Mar. 9; Sp. p. 1711; Gaz. vol. 140; p. 293.  
Harvester, Stripper- C. A. A. Rand. No. 925,945; June 22; Sp. p. 5987; Gaz. vol. 143; p. 1034.  
Harvesters and binders, Metallic conveyer-chain for. S. C. English. No. 926,806; July 6; Sp. p. 202; Gaz. vol. 144; p. 34.  
Harvesters and binders, Shocker attachment for grain. E. A. White. No. 944,160; Dec. 21; Sp. p. 4569; Gaz. vol. 149; p. 784.  
Harvesters, Apparatus for straightening grain upon. D. H. Simmons. No. 923,084; May 25; Sp. p. 6161; Gaz. vol. 142; p. 1069.  
Harvesters, Gearing for cotton- R. C. Scherling. No. 921,008; May 11; Sp. p. 1857; Gaz. vol. 142; p. 329.  
Harvesters, &c., Supporting and moving device for. J. Macphail. No. 943,090; Dec. 14; Sp. p. 2300; Gaz. vol. 149; p. 390.  
Harvesting and husking machine, Corn. D. and J. Wandscheer. No. 915,912; Mar. 23; Sp. p. 4637; Gaz. vol. 140; p. 823.  
Harvesting and husking machine, Corn. F. W. Wellensiek. No. 921,490; May 11; Sp. p. 2867; Gaz. vol. 142; p. 493.  
Harvesting device. W. L. Griffin. No. 914,825; Mar. 9; Sp. p. 2462; Gaz. vol. 140; p. 412.  
Harvesting-machine. W. Livtshak. No. 908,873; Jan. 5; Sp. p. 913; Gaz. vol. 138; p. 145.  
Harvesting machine, Cane- T. J. Peters. No. 926,599; June 29; Sp. p. 7286; Gaz. vol. 143; p. 1286.  
Harvesting machine, Corn- W. H. Tilson. No. 927,613; July 13; Sp. p. 1881; Gaz. vol. 144; p. 332.  
Harvesting machine, Corn- E. Laking. No. 927,660; July 13; Sp. p. 2000; Gaz. vol. 144; p. 348.  
Harvesting machine, Corn- H. F. Engelland. No. 934,511; Sept. 21; Sp. p. 3102; Gaz. vol. 146; p. 541.  
Harvesting machine, Grain- J. B. W. Deeds. No. 931,575; Aug. 17; Sp. p. 4089; Gaz. vol. 145; p. 704.  
Harvesting machine, Potato, &c. W. M. Martin. No. 931,882; Aug. 24; Sp. p. 4772; Gaz. vol. 145; p. 825.

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- Harvesting-machinery draft appliance. A. J. Bejot. No. 934,880; Sept. 21; Sp. p. 3828; Gaz. vol. 146; p. 664.
- Harping potatoes, onions, &c., Apparatus for. W. J. Dunham and E. W. Peck. No. 942,626; Dec. 7; Sp. p. 1238; Gaz. vol. 149; p. 203.
- Harp-fastener. A. R. Luschka. No. 929,612; July 27; Sp. p. 6013; Gaz. vol. 144; p. 1052.
- Harp-fastener. C. Lovely. No. 938,257; Oct. 26; Sp. p. 5564; Gaz. vol. 147; p. 951.
- Harp-fastener. H. L. Lambrecht. No. 944,792; Dec. 28; Sp. p. 5993; Gaz. vol. 149; p. 1026.
- Harp-fastener and handle-bar, Combined. F. Meyer and W. H. Caldbeck. No. 929,774; Aug. 3; Sp. p. 299; Gaz. vol. 145; p. 51.
- Harp for suit-cases. W. E. Dooley. No. 917,854; Apr. 13; Sp. p. 1789; Gaz. vol. 141; p. 328.
- Harp-lock. W. F. Hunt. No. 911,502; Feb. 2; Sp. p. 908; Gaz. vol. 139; p. 159.
- Harp-lock. A. L. Buckland. No. 917,843; Apr. 13; Sp. p. 1766; Gaz. vol. 141; p. 324.
- Harp-lock. A. J. French. No. 941,511; Nov. 30; Sp. p. 6762; Gaz. vol. 148; p. 1145.
- Harp-lock. P. McMenamin. No. 943,365; Dec. 14; Sp. p. 2868; Gaz. vol. 149; p. 482.
- Harp-lock. Permutation. J. W. McFall and L. C. Griess. No. 919,624; Apr. 27; Sp. p. 5724; Gaz. vol. 141; p. 985.
- Hat. F. P. Maté. No. 930,304; Aug. 3; Sp. p. 1374; Gaz. vol. 145; p. 228.
- Hat. J. R. Rash. No. 940,062; Nov. 16; Sp. p. 3584; Gaz. vol. 148; p. 612.
- Hat and coat hanger. G. Manser. No. 930,399; Aug. 10; Sp. p. 1566; Gaz. vol. 145; p. 284.
- Hat and coat hook. C. J. Ericson. No. 910,051; Jan. 19; Sp. p. 3258; Gaz. vol. 138; p. 601.
- Hat and coat rack. E. L. Pitts. No. 909,114; Jan. 5; Sp. p. 1409; Gaz. vol. 138; p. 224.
- Hat and garment hook, Combination. H. B. Wade. (Reissue.) No. 12,998; July 27; Sp. p. 6094; Gaz. vol. 144; p. 1066.
- Hat attachment. A. D. Glascock. No. 936,117; Oct. 5; Sp. p. 1086; Gaz. vol. 147; p. 166.
- Hat-badge. H. F. W. Arnold. No. 927,763; July 13; Sp. p. 2208; Gaz. vol. 144; p. 382.
- Hat-bag. W. K. Shannon. No. 934,098; Sept. 14; Sp. p. 2304; Gaz. vol. 146; p. 378.
- Hat-baking oven. C. F. Bennett. No. 933,413; Sept. 7; Sp. p. 851; Gaz. vol. 146; p. 133.
- Hat-bodies, Machine for clipping blocked. J. H. Starr. No. 925,608; June 22; Sp. p. 5256; Gaz. vol. 143; p. 924.
- Hat-body and making the same. B. Wollner and J. B. Eiseman. No. 924,408; June 8; Sp. p. 2845; Gaz. vol. 143; p. 465.
- Hat-brim-curling machine. J. P. Rochford. No. 911,615; Feb. 9; Sp. p. 1172; Gaz. vol. 139; p. 222.
- Hat-brim-curling machine. C. E. Sackett. No. 922,196; May 18; Sp. p. 4325; Gaz. vol. 142; p. 753.
- Hat-brim-curling machine. C. E. Sackett. No. 922,959; May 25; Sp. p. 5908; Gaz. vol. 142; p. 1030.
- Hat-brim edges, Apparatus for curling and ironing. G. Atherton. No. 927,313; July 6; Sp. p. 1241; Gaz. vol. 144; p. 204.
- Hat-brim press to form welt edges. C. E. Sackett. No. 914,519; Mar. 9; Sp. p. 1823; Gaz. vol. 140; p. 311.
- Hat-brim press to form welt edges. C. E. Sackett. No. 934,219; Sept. 14; Sp. p. 2541; Gaz. vol. 146; p. 420.
- Hat-brim press to form welt edges. C. E. Sackett. No. 936,364; Oct. 12; Sp. p. 1587; Gaz. vol. 147; p. 270.
- Hat-brims for setting, Apparatus for softening. R. E. Heim. No. 929,945; Aug. 3; Sp. p. 687; Gaz. vol. 145; p. 109.
- Hat-brims, Shaping and setting. C. E. Sackett. No. 929,791; Aug. 3; Sp. p. 339; Gaz. vol. 145; p. 57.
- Hat-carrier. G. H. Wheary. No. 939,364; Nov. 9; Sp. p. 2027; Gaz. vol. 148; p. 342.
- Hat, coat, and umbrella rack. C. E. Garner. No. 911,035; Feb. 2; Sp. p. 23; Gaz. vol. 139; p. 6.
- Hat-container, Lady's. F. Young. No. 923,924; June 8; Sp. p. 1828; Gaz. vol. 143; p. 305.
- Hat cover, Lady's. W. S. Turney. No. 914,206; Mar. 2; Sp. p. 1175; Gaz. vol. 140; p. 184.
- Hat-fabric-reducing machine, Felt. E. L. Wales. No. 930,001; Aug. 3; Sp. p. 805; Gaz. vol. 145; p. 129.
- Hat-fastener. A. A. Roberts. No. 911,764; Feb. 9; Sp. p. 1460; Gaz. vol. 139; p. 272.
- Hat-fastener. J. Stauber. No. 917,183; Apr. 6; Sp. p. 441; Gaz. vol. 141; p. 77.
- Hat-fastener. I. A. Hanson. No. 917,597; Apr. 6; Sp. p. 1239; Gaz. vol. 141; p. 217.
- Hat-fastener. W. M. Storer. No. 919,975; Apr. 27; Sp. p. 6442; Gaz. vol. 141; p. 1101.
- Hat-fastener. W. Haraden. No. 921,830; May 18; Sp. p. 3596; Gaz. vol. 142; p. 634.
- Hat-fastener. G. Gerstheimer. No. 937,234; Oct. 19; Sp. p. 3409; Gaz. vol. 147; p. 590.
- Hat-fastening, Lady's. J. Morris and S. A. B. Marks. No. 933,659; Sept. 7; Sp. p. 1413; Gaz. vol. 146; p. 212.
- Hat, Felt. E. L. Wales. No. 941,746; Nov. 30; Sp. p. 7255; Gaz. vol. 148; p. 1224.
- Hat-frame former. C. F. Clark. No. 918,825; Apr. 20; Sp. p. 3580; Gaz. vol. 141; p. 684.
- Hat-form, Detachable. O. Rangnow. No. 929,247; July 27; Sp. p. 5261; Gaz. vol. 144; p. 932.
- Hat-frame, Lady's. H. H. Scholl. No. 926,360; June 29; Sp. p. 6855; Gaz. vol. 143; p. 1206.
- Hat-frame machine. A. Feinstein. No. 937,296; Oct. 19; Sp. p. 3532; Gaz. vol. 147; p. 610.
- Hat-frame machine. C. Hoppe and C. Becker. No. 938,380; Oct. 26; Sp. p. 5847; Gaz. vol. 147; p. 992.
- Hat-frames, Device for forming wire. W. M. Jameson. No. 935,305; Sept. 28; Sp. p. 4682; Gaz. vol. 146; p. 831.
- Hat-guard. O. A. Danielson. No. 920,924; May 11; Sp. p. 1708; Gaz. vol. 142; p. 302.
- Hat-guard. F. M. M. Loubrie. No. 921,856; May 18; Sp. p. 3648; Gaz. vol. 142; p. 643.
- Hat-guard. C. H. Shaw. No. 938,281; Oct. 26; Sp. p. 5603; Gaz. vol. 147; p. 958.
- Hat-guard. M. R. and M. J. Soden. No. 942,678; Dec. 7; Sp. p. 1339; Gaz. vol. 149; p. 220.
- Hat-hanger. E. F. Kandlbinder. No. 930,862; Aug. 10; Sp. p. 2545; Gaz. vol. 145; p. 439.
- Hat-holder. E. C. Dailey. No. 922,267; May 18; Sp. p. 4474; Gaz. vol. 142; p. 777.
- Hat-holder. T. M. Coleman. No. 933,063; Sept. 7; Sp. p. 51; Gaz. vol. 140; p. 9.
- Hat-holder. W. R. Evans. No. 938,998; Nov. 2; Sp. p. 1186; Gaz. vol. 148; p. 139.
- Hat-holder. W. T. Truitt. No. 938,352; Nov. 9; Sp. p. 1994; Gaz. vol. 148; p. 338.
- Hat holder and support. H. A. Every. No. 926,397; June 29; Sp. p. 6917; Gaz. vol. 143; p. 1218.
- Hat-holder for packing-receptacles. H. Seward. No. 930,420; Aug. 10; Sp. p. 1600; Gaz. vol. 145; p. 291.
- Hat-hook. A. M. Hortenbach. No. 936,899; Oct. 12; Sp. p. 2705; Gaz. vol. 147; p. 451.
- Hat, Man's. E. B. Hollenbeck. No. 928,384; July 20; Sp. p. 3514; Gaz. vol. 144; p. 621.
- Hat-pin. M. Rosengarten. No. 909,121; Jan. 5; Sp. p. 1424; Gaz. vol. 138; p. 227.
- Hat-pin. J. C. Steele. No. 913,067; Feb. 23; Sp. p. 4218; Gaz. vol. 139; p. 763.
- Hat-pin. J. N. Bishop. No. 920,249; May 4; Sp. p. 330; Gaz. vol. 142; p. 52.
- Hat-pin. T. M. Fraenlich. No. 921,221; May 11; Sp. p. 2305; Gaz. vol. 142; p. 405.
- Hat-pin. R. V. Skinner. No. 927,888; July 13; Sp. p. 2477; Gaz. vol. 144; p. 423.
- Hat-pin. J. A. Martens. No. 929,149; July 27; Sp. p. 5071; Gaz. vol. 144; p. 901.
- Hat-pin. F. S. Buckminster. No. 930,152; Aug. 3; Sp. p. 1117; Gaz. vol. 145; p. 181.
- Hat-pin. I. M. Savit. No. 938,277; Oct. 26; Sp. p. 5596; Gaz. vol. 147; p. 957.
- Hat-pin guard. F. R. Greenwald. No. 934,306; Sept. 14; Sp. p. 2704; Gaz. vol. 146; p. 449.
- Hat-pin holder. W. H. Plane. No. 932,809; Aug. 31; Sp. p. 6742; Gaz. vol. 145; p. 1156.
- Hat-pin, Ornamental safety. S. J. Jacobsen. No. 913,643; Feb. 23; Sp. p. 5443; Gaz. vol. 139; p. 958.
- Hat-protector. W. J. Stewart. No. 939,874; Nov. 9; Sp. p. 3129; Gaz. vol. 148; p. 516.
- Hat rack and lock. A. D. Hill. No. 930,289; Aug. 3; Sp. p. 1349; Gaz. vol. 145; p. 223.
- Hat retaining and ventilating means. R. D. Baker. No. 942,303; Dec. 7; Sp. p. 584; Gaz. vol. 149; p. 93.
- Hat safety device, Gentleman's. E. R. Vasconcellos. No. 944,062; Dec. 21; Sp. p. 4362; Gaz. vol. 149; p. 752.
- Hat-saver and hand-bag. A. W. Powell and E. K. Lane. No. 919,984; Apr. 27; Sp. p. 6456; Gaz. vol. 141; p. 1103.
- Hat sweat-band. N. R. Marshman. No. 938,008; Oct. 26; Sp. p. 5025; Gaz. vol. 147; p. 865.
- Hat-ventilating attachment. C. A. H. Smith. No. 935,556; Sept. 28; Sp. p. 5210; Gaz. vol. 146; p. 914.
- Hat-ventilator. W. R. Montgomery. No. 911,740; Feb. 9; Sp. p. 1420; Gaz. vol. 139; p. 264.
- Hat-ventilator. P. F. Deely. No. 934,508; Sept. 21; Sp. p. 3098; Gaz. vol. 146; p. 540.
- Hat ventilator attachment. F. R. Skidmore. No. 925,604; June 22; Sp. p. 5244; Gaz. vol. 143; p. 923.
- Hats and other head-coverings, Sweat-band for. J. W. Kolsch. No. 941,717; Nov. 30; Sp. p. 7200; Gaz. vol. 148; p. 1213.
- Hats, Article-holder for. G. Leopold. No. 933,473; Sept. 7; Sp. p. 1001; Gaz. vol. 146; p. 151.
- Hats, Device for hand-blocking. J. W. Penny. No. 929,483; July 27; Sp. p. 5755; Gaz. vol. 144; p. 1010.
- Hats, Means for facilitating the circulation of air under. L. Morigl. No. 923,986; June 8; Sp. p. 1960; Gaz. vol. 143; p. 325.
- Hats of straw, palm-leaf, and the like, Manufacture of. H. P. Pearson. No. 927,674; July 13; Sp. p. 2028; Gaz. vol. 144; p. 353.
- Hats, Ventilator and medicament or perfume container for. H. D. Barnes. No. 935,832; Oct. 5; Sp. p. 499; Gaz. vol. 147; p. 71.
- Hatch. A. N. McGray. No. 934,456; Sept. 21; Sp. p. 3004; Gaz. vol. 146; p. 523.
- Hatch and roof covering, Structural. H. W. Remington. No. 932,414; Aug. 24; Sp. p. 5868; Gaz. vol. 145; p. 1002.
- Hatch-cover. G. H. Tackman. No. 935,431; Sept. 28; Sp. p. 4932; Gaz. vol. 146; p. 871.
- Hatch-cover and operating means therefor. L. D. Lovekin, P. M. Young, and H. Krapp. No. 941,526; Nov. 30; Sp. p. 6788; Gaz. vol. 148; p. 1150.
- Hatch-operating mechanism. H. M. Gleason. No. 933,070; Sept. 7; Sp. p. 65; Gaz. vol. 146; p. 11.
- Hatch or manhole cover, Water-tight. M. A. Laubeuf. No. 938,593; Nov. 2; Sp. p. 342; Gaz. vol. 148; p. 51.
- Hatchet. W. S. Ward. No. 939,458; Nov. 9; Sp. p. 2249; Gaz. vol. 148; p. 373.
- Hatchet, Folding pocket-. H. McNally. No. 942,342; Dec. 7; Sp. p. 662; Gaz. vol. 149; p. 106.
- Haulage-clip. J. W. Smallman. No. 941,049; Nov. 23; Sp. p. 5750; Gaz. vol. 148; p. 971.



*Alphabetical list of inventions—Continued.*

- Hauling-motor. H. A. Heavey. No. 934,912; Sept. 21; Sp. p. 3887; Gaz. vol. 146; p. 675.
- Hay and manure gatherer and loader. J. Peterson. No. 912,611; Feb. 23; Sp. p. 3288; Gaz. vol. 139; p. 590.
- Hay and shock loader. T. E. and O. C. McDowell. No. 930,556; Aug. 10; Sp. p. 1918; Gaz. vol. 145; p. 338.
- Hay-beater. H. Chesebro. No. 926,241; June 29; Sp. p. 6626; Gaz. vol. 143; p. 1169.
- Hay-carrier. F. S. Polley. No. 909,661; Jan. 12; Sp. p. 2477; Gaz. vol. 138; p. 439.
- Hay-carrier. P. A. Myers. No. 918,077; Apr. 13; Sp. p. 2272; Gaz. vol. 141; p. 408.
- Hay-carrier. D. M. Motherwell. No. 924,811; June 15; Sp. p. 3690; Gaz. vol. 143; p. 632.
- Hay-carrier. F. B. Strickler. No. 930,572; Aug. 10; Sp. p. 1955; Gaz. vol. 145; p. 344.
- Hay-carrier. J. Ney. No. 937,846; Oct. 26; Sp. p. 4687; Gaz. vol. 147; p. 811.
- Hay-carrier. S. P. Lerch. No. 938,775; Nov. 2; Sp. p. 695; Gaz. vol. 148; p. 112.
- Hay, Device for transporting and weighing baled. E. McGlinchay. No. 927,580; July 13; Sp. p. 1796; Gaz. vol. 144; p. 320.
- Hay-fork. J. Melby. No. 917,634; Apr. 6; Sp. p. 1309; Gaz. vol. 141; p. 231.
- Hay-fork. A. A. Parish. No. 923,072; May 25; Sp. p. 6142; Gaz. vol. 142; p. 1066.
- Hay-fork, Double-harpoon. P. A. Myers. No. 927,579; July 13; Sp. p. 1792; Gaz. vol. 144; p. 320.
- Hay-fork, Horse. M. D. Main. No. 943,618; Dec. 14; Sp. p. 3421; Gaz. vol. 149; p. 570.
- Hay-gatherer. N. Fryman. No. 936,621; Oct. 12; Sp. p. 2163; Gaz. vol. 147; p. 358.
- Hay-gatherer. N. Fryman. No. 943,533; Dec. 14; Sp. p. 3218; Gaz. vol. 149; p. 542.
- Hay-gatherer and loader. E. Lovelady. No. 922,301; May 18; Sp. p. 4528; Gaz. vol. 142; p. 786.
- Hay-holder, Automatic. J. Weddle. No. 932,524; Aug. 31; Sp. p. 6116; Gaz. vol. 145; p. 1061.
- Hay-hook. J. N. Penington and J. W. Chilton. No. 931,339; Aug. 17; Sp. p. 3642; Gaz. vol. 145; p. 628.
- Hay lifter and stacker, Combined. J. Trekowski. No. 926,222; June 29; Sp. p. 6586; Gaz. vol. 143; p. 1163.
- Hay-loader. R. L. Mealus. No. 911,665; Feb. 9; Sp. p. 1280; Gaz. vol. 139; p. 240.
- Hay-loader. N. O. Henderson. No. 916,310; Mar. 23; Sp. p. 5371; Gaz. vol. 140; p. 953.
- Hay-loader. W. R. McGowen. No. 920,077; Apr. 27; Sp. p. 6668; Gaz. vol. 141; p. 1134.
- Hay-loader. S. K. Dennis. No. 926,177; June 29; Sp. p. 6481; Gaz. vol. 143; p. 1147.
- Hay-loader. J. D. Baker. No. 930,119; Aug. 3; Sp. p. 1050; Gaz. vol. 145; p. 169.
- Hay-loader. S. M. Wixcel. No. 931,109; Aug. 17; Sp. p. 3126; Gaz. vol. 145; p. 548.
- Hay-loader. S. K. Dennis. No. 931,734; Aug. 24; Sp. p. 4471; Gaz. vol. 145; p. 779.
- Hay-loader. L. H. Frazer. No. 935,649; Oct. 5; Sp. p. 45; Gaz. vol. 147; p. 9.
- Hay-loader. L. Howe. No. 935,986; Oct. 5; Sp. p. 823; Gaz. vol. 147; p. 122.
- Hay-loader. F. W. Compton. No. 944,017; Dec. 21; Sp. p. 4279; Gaz. vol. 149; p. 737.
- Hay loader and rake, Combined. H. I. Smith. No. 932,185; Aug. 24; Sp. p. 5439; Gaz. vol. 145; p. 927.
- Hay-loader coupling. W. T. Jones. No. 943,024; Dec. 14; Sp. p. 2146; Gaz. vol. 149; p. 368.
- Hay-loader wind-shield. H. W. Betwhy. No. 918,267; Apr. 13; Sp. p. 2659; Gaz. vol. 141; p. 471.
- Hay-pitcher. W. C. Grauer. No. 943,930; Dec. 21; Sp. p. 4084; Gaz. vol. 149; p. 707.
- Hay-pitcher. A. H. Bosworth. No. 943,963; Dec. 21; Sp. p. 4149; Gaz. vol. 149; p. 719.
- Hay-press. G. E. Warren. No. 909,974; Jan. 19; Sp. p. 3113; Gaz. vol. 138; p. 576.
- Hay-press. M. D. Guthrie. No. 910,667; Jan. 26; Sp. p. 4589; Gaz. vol. 138; p. 834.
- Hay-press. C. L. Bowen. No. 913,873; Mar. 2; Sp. p. 434; Gaz. vol. 140; p. 70.
- Hay-press. F. A. Ryther. No. 915,117; Mar. 16; Sp. p. 3026; Gaz. vol. 140; p. 534.
- Hay-press. J. Fowler. No. 918,524; Apr. 20; Sp. p. 3181; Gaz. vol. 141; p. 584.
- Hay-press. W. M. Pickard. No. 920,992; May 11; Sp. p. 1828; Gaz. vol. 142; p. 325.
- Hay-press. A. F. W. Diamond. No. 921,961; May 18; Sp. p. 3858; Gaz. vol. 142; p. 675.
- Hay-press. F. A. Ryther. No. 925,514; June 22; Sp. p. 5074; Gaz. vol. 143; p. 893.
- Hay-press. D. S. Beard. No. 926,382; June 29; Sp. p. 6889; Gaz. vol. 143; p. 1212.
- Hay-press. S. Carr. No. 927,829; July 13; Sp. p. 2339; Gaz. vol. 144; p. 403.
- Hay-press. T. E. Turner. No. 932,517; Aug. 31; Sp. p. 6106; Gaz. vol. 145; p. 1059.
- Hay-press. A. C. Funk and T. E. Turner. No. 932,542; Aug. 31; Sp. p. 6162; Gaz. vol. 145; p. 1068.
- Hay-press. M. A. Westbrook. No. 935,179; Sept. 28; Sp. p. 4437; Gaz. vol. 146; p. 790.
- Hay-press. N. Piquette. No. 938,701; Nov. 2; Sp. p. 555; Gaz. vol. 148; p. 87.
- Hay-press. W. W. Boykin. No. 940,669; Nov. 23; Sp. p. 4933; Gaz. vol. 148; p. 844.
- Hay-press. H. B. Gaskin. No. 941,243; Nov. 23; Sp. p. 6177; Gaz. vol. 148; p. 1036.
- Hay-press. J. Dain. No. 943,656; Dec. 21; Sp. p. 3523; Gaz. vol. 149; p. 613.
- Hay-press, Automatic. A. C. Laughlin. No. 938,252; Oct. 26; Sp. p. 5554; Gaz. vol. 147; p. 949.
- Hay-press sweep. N. Piquette. No. 938,700; Nov. 2; Sp. p. 554; Gaz. vol. 148; p. 86.
- Hay-rack. C. W. Baird. No. 927,019; July 6; Sp. p. 652; Gaz. vol. 144; p. 106.
- Hay-rack. M. Engesser. No. 930,365; Aug. 10; Sp. p. 1505; Gaz. vol. 145; p. 273.
- Hay-rack. E. J. Wells. No. 938,928; Nov. 2; Sp. p. 1054; Gaz. vol. 148; p. 166.
- Hay-rake. A. E. Feltham. No. 909,879; Jan. 19; Sp. p. 2917; Gaz. vol. 138; p. 542.
- Hay-rake. C. Pearson. No. 913,971; Mar. 2; Sp. p. 662; Gaz. vol. 140; p. 105.
- Hay-rake. C. Pearson. No. 930,314; Aug. 3; Sp. p. 1393; Gaz. vol. 145; p. 231.
- Hay-rake. H. A. Smith. No. 930,994; Aug. 10; Sp. p. 2854; Gaz. vol. 145; p. 481.
- Hay-rake. L. D. Lankin. No. 931,012; Aug. 10; Sp. p. 2901; Gaz. vol. 145; p. 488.
- Hay-rake. W. Winters. No. 932,528; Aug. 31; Sp. p. 6123; Gaz. vol. 145; p. 1063.
- Hay-rake. J. H. Kobelanz. No. 937,076; Oct. 19; Sp. p. 3061; Gaz. vol. 147; p. 538.
- Hay rake and cocker. W. C. Trussell. No. 924,297; June 8; Sp. p. 2625; Gaz. vol. 143; p. 427.
- Hay rake and loader. C. Bornholdt. No. 924,035; June 8; Sp. p. 2044; Gaz. vol. 143; p. 340.
- Hay rake and loader. G. E. Cadwell and N. E. Studebaker. No. 937,283; Oct. 19; Sp. p. 3508; Gaz. vol. 147; p. 606.
- Hay rake and loader. O. J. Olson. No. 939,157; Nov. 2; Sp. p. 1514; Gaz. vol. 148; p. 246.
- Hay rake and loader, Combined. B. A. Spinney. No. 927,182; July 6; Sp. p. 1000; Gaz. vol. 144; p. 162.
- Hay rake and loader, Combined. O. Boyer. No. 938,959; Nov. 2; Sp. p. 1109; Gaz. vol. 148; p. 177.
- Hay rake and stacker, Combined. C. A. Robben. No. 938,076; Oct. 26; Sp. p. 5184; Gaz. vol. 147; p. 888.
- Hay rake and tedder, Combined. L. M. Jones. No. 928,457; July 20; Sp. p. 3660; Gaz. vol. 144; p. 644.
- Hay-rake, Horse. F. Pomeroy. No. 915,476; Mar. 16; Sp. p. 3744; Gaz. vol. 140; p. 651.
- Hay-rake, Revolving. E. V. Swern. No. 923,728; June 1; Sp. p. 1346; Gaz. vol. 143; p. 209.
- Hay-rake, Self-dumping. G. G. Lowry. No. 943,429; Dec. 14; Sp. p. 2990; Gaz. vol. 149; p. 504.
- Hay-retainer. C. H. Whitney. No. 936,500; Oct. 12; Sp. p. 1913; Gaz. vol. 147; p. 315.
- Hay-sling. J. M. Boyd. No. 939,469; Nov. 9; Sp. p. 2278; Gaz. vol. 148; p. 377.
- Hay-sling lock. A. P. Boyer. No. 909,141; Jan. 12; Sp. p. 1474; Gaz. vol. 138; p. 268.
- Hay-stacker. H. M. Underwood. No. 908,522; Jan. 5; Sp. p. 187; Gaz. vol. 138; p. 32.
- Hay-stacker. F. M. Tinsley. No. 912,510; Feb. 16; Sp. p. 3068; Gaz. vol. 139; p. 553.
- Hay-stacker. C. W. Davis. No. 914,388; Mar. 9; Sp. p. 1575; Gaz. vol. 140; p. 267.
- Hay-stacker. F. J. Steele. No. 916,050; Mar. 23; Sp. p. 4899; Gaz. vol. 140; p. 868.
- Hay-stacking apparatus. J. Pate. No. 914,178; Mar. 2; Sp. p. 1128; Gaz. vol. 140; p. 176.
- Hay-sweep. J. A. Schertz. No. 927,883; July 13; Sp. p. 2465; Gaz. vol. 144; p. 421.
- Hay-tedder. E. J. Loomis and J. I. Woglum. No. 919,045; Apr. 20; Sp. p. 4333; Gaz. vol. 141; p. 756.
- Hay-tedder. A. Dobe. No. 938,129; Oct. 26; Sp. p. 5295; Gaz. vol. 147; p. 905.
- Hay-tedder. J. F. Hermann. No. 940,968; Nov. 23; Sp. p. 5573; Gaz. vol. 148; p. 943.
- Head-adjusting mechanism. C. L. Grohmann. No. 935,479; Nov. 2; Sp. p. 56; Gaz. vol. 148; p. 11.
- Head and back rest. A. W. Powell. No. 941,043; Nov. 23; Sp. p. 5738; Gaz. vol. 148; p. 969.
- Head-band, Remedial. C. C. Diendoné. No. 910,362; Jan. 19; Sp. p. 3943; Gaz. vol. 138; p. 709.
- Head-covering. L. Weiner. No. 917,210; Apr. 6; Sp. p. 509; Gaz. vol. 141; p. 89.
- Head-gate. J. R. Crabtree. No. 908,961; Jan. 5; Sp. p. 1072; Gaz. vol. 138; p. 174.
- Head-gate. J. H. Buttorff. No. 915,159; Mar. 16; Sp. p. 3123; Gaz. vol. 140; p. 548.
- Head-gear. O. Drexler. No. 919,835; Apr. 27; Sp. p. 6183; Gaz. vol. 141; p. 1054.
- Head-rest. J. C. Bahr. No. 911,933; Feb. 9; Sp. p. 1776; Gaz. vol. 139; p. 327.
- Head-rest. W. N. Greer. No. 915,025; Mar. 9; Sp. p. 2813; Gaz. vol. 140; p. 476.
- Head-rest. A. A. Patnode. No. 919,374; Apr. 27; Sp. p. 6183; Gaz. vol. 141; p. 899.
- Head-rest. W. P. Clugsten. No. 931,181; Aug. 17; Sp. p. 3285; Gaz. vol. 145; p. 573.
- Head-rest. E. C. Leahy. No. 933,471; Sept. 7; Sp. p. 999; Gaz. vol. 146; p. 151.
- Head-rest. M. G. Worth. No. 933,811; Sept. 14; Sp. p. 1725; Gaz. vol. 146; p. 286.
- Head-rest. J. A., and J. P. Barker. No. 939,655; Nov. 9; Sp. p. 2667; Gaz. vol. 148; p. 441.

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- Head-rest. F. Corkins. No. 942,485; Dec. 7; Sp. p. 959; Gaz. vol. 149; p. 155.  
 Head-rest support. W. A. Wilkins. No. 923,746; June 1; Sp. p. 1382; Gaz. vol. 143; p. 245.  
 Headache appliance. C. Gray and O. B. Hitchcock. No. 937,596; Oct. 19; Sp. p. 4172; Gaz. vol. 147; p. 710.  
 Headache, Appliance for relief of. J. M. Blashfield. No. 924,596; June 8; Sp. p. 3215; Gaz. vol. 143; p. 526.  
 Header. G. L. Gregory. No. 929,642; July 27; Sp. p. 6079; Gaz. vol. 144; p. 1062.  
 Headers, Feed for. J. D. Stow. No. 929,892; Aug. 3; Sp. p. 584; Gaz. vol. 145; p. 92.  
 Heading-machine. W. D. Thomas. No. 928,409; July 20; Sp. p. 3559; Gaz. vol. 144; p. 629.  
 Headless and threadless bolt. J. J. Souder. No. 911,624; Feb. 9; Sp. p. 1187; Gaz. vol. 139; p. 225.  
 Headlight. R. H. Welles. No. 913,997; Mar. 2; Sp. p. 720; Gaz. vol. 140; p. 114.  
 Headlight. F. Buchanan. No. 916,266; Mar. 23; Sp. p. 5299; Gaz. vol. 140; p. 938.  
 Headlight. T. L. Hiles. No. 918,151; Apr. 13; Sp. p. 2416; Gaz. vol. 141; p. 433.  
 Headlight. R. H. Welles. No. 922,826; May 25; Sp. p. 5632; Gaz. vol. 142; p. 986.  
 Headlight. C. L. Betts. No. 927,768; July 13; Sp. p. 2214; Gaz. vol. 144; p. 383.  
 Headlight. R. C. McClay. No. 931,953; Aug. 24; Sp. p. 4955; Gaz. vol. 145; p. 849.  
 Headlight. C. L. Betts. No. 933,614; Sept. 7; Sp. p. 1337; Gaz. vol. 146; p. 199.  
 Headlight, Arc-lamp. R. Fleming. No. 920,853; May 4; Sp. p. 1541; Gaz. vol. 142; p. 249.  
 Headlight attachment. F. J. Pfister. No. 935,228; Sept. 28; Sp. p. 4527; Gaz. vol. 146; p. 806.  
 Headlight bracket and mechanism for turning same, Automobile-. F. H. Aubeuf. No. 938,456; Nov. 2; Sp. p. 7; Gaz. vol. 148; p. 3.  
 Headlight-cover. C. W. Houghton. No. 940,156; Nov. 16; Sp. p. 3780; Gaz. vol. 148; p. 645.  
 Headlight-dimmer. R. W. Clark. No. 923,769; June 1; Sp. p. 1443; Gaz. vol. 143; p. 224.  
 Headlight, Dirigible. J. B. Baum. No. 936,211; Oct. 5; Sp. p. 1267; Gaz. vol. 147; p. 193.  
 Headlight-holder. G. B. Gardner and F. M. Furber. No. 920,860; May 4; Sp. p. 1554; Gaz. vol. 142; p. 251.  
 Headlight, Locomotive-. I. L. Wade and W. L. Smith. No. 936,200; Oct. 5; Sp. p. 1249; Gaz. vol. 147; p. 189.  
 Headlight, Locomotive-. J. A. Hamby and S. S. Butcher. No. 939,832; Nov. 9; Sp. p. 3044; Gaz. vol. 148; p. 502.  
 Headlight, Locomotive-. S. W. Emery. No. 940,446; Nov. 16; Sp. p. 4457; Gaz. vol. 148; p. 745.  
 Headlight number-plate holder. C. B. Baker. No. 920,714; May 4; Sp. p. 1280; Gaz. vol. 142; p. 205.  
 Headlight-operating device. F. A. Hamm. No. 911,394; Feb. 2; Sp. p. 725; Gaz. vol. 139; p. 125.  
 Headlight-operating means. E. C. King. No. 924,557; June 8; Sp. p. 3139; Gaz. vol. 143; p. 512.  
 Headlight-reflector, Adjustable. J. R. Pratt. No. 915,477; Mar. 16; Sp. p. 3746; Gaz. vol. 140; p. 651.  
 Headlight, Vehicle-. A. E. Dobbs. No. 929,197; July 27; Sp. p. 5172; Gaz. vol. 144; p. 916.  
 Headstones from plastic material, Apparatus for forming. C. C. Wingo. No. 918,241; Apr. 13; Sp. p. 2612; Gaz. vol. 141; p. 463.  
 Hearse and passenger-vehicle, Combined. F. Hulberg. No. 919,868; Apr. 27; Sp. p. 6250; Gaz. vol. 141; p. 1066.  
 Hearth-furnace. F. Dahl. No. 931,916; Aug. 24; Sp. p. 4881; Gaz. vol. 145; p. 837.  
 Heat and smoke generator. F. Stapp. No. 915,239; Mar. 16; Sp. p. 3284; Gaz. vol. 140; p. 574.  
 Heat-coil. W. L. Coursen. No. 944,540; Dec. 28; Sp. p. 5417; Gaz. vol. 149; p. 942.  
 Heat, Composition of matter for the generation of. F. J. Tone. No. 939,930; Nov. 9; Sp. p. 3262; Gaz. vol. 148; p. 538.  
 Heat-conserving receptacle. J. H. Wilson and T. S. Friend. No. 928,414; July 20; Sp. p. 3569; Gaz. vol. 144; p. 631.  
 Heat for cooking and other purposes, Electrical production of. A. F. Berry. No. 932,242; Aug. 24; Sp. p. 5551; Gaz. vol. 145; p. 945.  
 Heat-generating composition. F. J. Tone. No. 939,570; Nov. 9; Sp. p. 2480; Gaz. vol. 148; p. 411.  
 Heat-generator. A. Noetel. No. 912,879; Feb. 16; Sp. p. 3843; Gaz. vol. 139; p. 677.  
 Heat, Means for utilizing solar. M. L. Severy. No. 937,013; Oct. 12; Sp. p. 2929; Gaz. vol. 147; p. 487.  
 Heat of combustion and steam-power in prime movers, Utilizing. T. Schtscherbakoff. No. 925,845; June 22; Sp. p. 5787; Gaz. vol. 143; p. 1002.  
 Heat-regulating apparatus, Automatic. T. I. Galloway. No. 929,580; July 27; Sp. p. 5925; Gaz. vol. 144; p. 1042.  
 Heat-regulator. C. F. Rukes. No. 912,175; Feb. 9; Sp. p. 2340; Gaz. vol. 139; p. 404.  
 Heat-regulator. R. R. Root. No. 913,982; Mar. 2; Sp. p. 700; Gaz. vol. 140; p. 109.  
 Heat-regulator. M. J. Farquhar. No. 934,598; Sept. 21; Sp. p. 3264; Gaz. vol. 146; p. 569.  
 Heat-regulator, Electrothermostatic. L. G. Copeman. No. 932,966; Aug. 31; Sp. p. 7023; Gaz. vol. 145; p. 1207.  
 Heat-retainer. F. H. Daniels. No. 941,858; Nov. 30; Sp. p. 7511; Gaz. vol. 148; p. 1263.  
 Heat-retainer. W. T. Converse. No. 943,004; Dec. 14; Sp. p. 2099; Gaz. vol. 149; p. 361.  
 Heat-transmitter. H. Friedenthal. No. 940,244; Nov. 16; Sp. p. 3975; Gaz. vol. 148; p. 676.  
 Heater: See Air-heater; Asphalt-heater; Boiler-superheater; Bottle-heater; Brooder-heater; Car-heater; Curling-iron heater; Dynamite-heater; Electric heater; Electric fluid-heater; Electrical heater; Engine air-heater; Feed-water heater; Feed and water heater; Flask-heater; Flat-iron heater; Gas-heater; Hot-air heater; Hot-water heater; Hot-water and steam heater; Hot-water house-heater; Hygienic heater; Iron-heater; Orchard-heater; Milk-heater; Room-heater; Sad-iron heater; Steam-superheater; Stove and hot-water heater; Stove auxiliary heater; Superheater; Tank-heater; Thermostat-controlled heater; Tire-heater; Water-heater; Wheat-heater.  
 Heater. J. C. Plank and T. E. Fulghum. No. 911,328; Feb. 2; Sp. p. 603; Gaz. vol. 139; p. 103.  
 Heater. J. T. Burr. No. 912,069; Feb. 9; Sp. p. 2152; Gaz. vol. 139; p. 371.  
 Heater. E. B. Raymond. No. 913,672; Feb. 23; Sp. p. 5492; Gaz. vol. 139; p. 967.  
 Heater. G. L. Fogler. No. 914,402; Mar. 9; Sp. p. 1690; Gaz. vol. 140; p. 272.  
 Heater. L. B. Piper. No. 914,455; Mar. 9; Sp. p. 1695; Gaz. vol. 140; p. 290.  
 Heater. A. L. Bailey and E. P. Browne. No. 915,262; Mar. 16; Sp. p. 3324; Gaz. vol. 140; p. 581.  
 Heater. R. C. Frampton. No. 916,292; Mar. 23; Sp. p. 5341; Gaz. vol. 140; p. 946.  
 Heater. J. S. Walker and S. N. Wilcox. No. 918,936; Apr. 20; Sp. p. 4111; Gaz. vol. 141; p. 722.  
 Heater. C. H. Hook. No. 919,172; Apr. 20; Sp. p. 4558; Gaz. vol. 141; p. 797.  
 Heater. G. H. Klumph and E. M. Bessler. No. 919,362; Apr. 27; Sp. p. 5155; Gaz. vol. 141; p. 894.  
 Heater. F. Buehring. No. 924,315; June 8; Sp. p. 2669; Gaz. vol. 143; p. 434.  
 Heater. W. S. Hamilton. No. 924,771; June 15; Sp. p. 3608; Gaz. vol. 143; p. 619.  
 Heater. S. Keltonik. No. 927,151; July 6; Sp. p. 937; Gaz. vol. 144; p. 151.  
 Heater. J. J. Kelly. No. 928,665; July 20; Sp. p. 4088; Gaz. vol. 144; p. 712.  
 Heater. S. McClure. No. 929,103; July 27; Sp. p. 4964; Gaz. vol. 144; p. 884.  
 Heater. J. Horst. No. 929,436; July 27; Sp. p. 5668; Gaz. vol. 144; p. 995.  
 Heater. E. R. Dye. No. 929,756; Aug. 3; Sp. p. 260; Gaz. vol. 145; p. 45.  
 Heater. R. E. Heim. No. 929,946; Aug. 3; Sp. p. 688; Gaz. vol. 145; p. 110.  
 Heater. C. H. Henzel. No. 931,422; Aug. 17; Sp. p. 3804; Gaz. vol. 145; p. 657.  
 Heater. H. E. Carleton. No. 931,730; Aug. 24; Sp. p. 4465; Gaz. vol. 145; p. 777.  
 Heater. F. Schill. No. 932,500; Aug. 31; Sp. p. 6074; Gaz. vol. 145; p. 1053.  
 Heater. H. R. Bromley and A. R. Marshall. No. 933,879; Sept. 14; Sp. p. 1870; Gaz. vol. 146; p. 309.  
 Heater. T. J. Bartow. No. 935,244; Sept. 28; Sp. p. 4565; Gaz. vol. 146; p. 812.  
 Heater. E. J., C. A., and C. H. Droz. No. 936,097; Oct. 5; Sp. p. 1045; Gaz. vol. 147; p. 159.  
 Heater. W. G. Glenn. No. 937,788; Oct. 26; Sp. p. 4574; Gaz. vol. 147; p. 792.  
 Heater. A. L. Schellhammer. No. 939,925; Nov. 9; Sp. p. 3247; Gaz. vol. 148; p. 535.  
 Heater. G. W. Bowman and J. A. Becraft. No. 941,910; Nov. 30; Sp. p. 7612; Gaz. vol. 148; p. 1281.  
 Heater. J. C. Plank and T. E. Fulghum. No. 944,745; Dec. 28; Sp. p. 5868; Gaz. vol. 149; p. 1011.  
 Heater and separator, Combined. J. W. Gamble. No. 926,108; June 29; Sp. p. 6327; Gaz. vol. 143; p. 1123.  
 Heater for corn-cookers, Rotary-filler. C. H. Colby. No. 917,544; Apr. 6; Sp. p. 1147; Gaz. vol. 141; p. 200.  
 Heaters, Apparatus for automatically regulating. J. Naughton. No. 928,323; July 20; Sp. p. 3409; Gaz. vol. 144; p. 600.  
 Heaters, Injector for hot-water. J. W. Guimont. No. 935,015; Sept. 28; Sp. p. 4104; Gaz. vol. 146; p. 736.  
 Heating air or other gases, Apparatus for. W. R. Wood. No. 924,409; June 8; Sp. p. 2847; Gaz. vol. 143; p. 465.  
 Heating and illuminating device. S. S. St. Hoar. No. 913,068; Feb. 23; Sp. p. 4219; Gaz. vol. 139; p. 764.  
 Heating and hot-water system, Combination. J. A. Flynn. No. 921,604; May 11; Sp. p. 3099; Gaz. vol. 142; p. 530.  
 Heating and lighting system, Hydrocarbon. J. Stubbers. No. 926,514; June 29; Sp. p. 7123; Gaz. vol. 143; p. 1257.  
 Heating and melting furnace. W. N. Best. No. 941,609; Nov. 30; Sp. p. 6952; Gaz. vol. 148; p. 1176.  
 Heating and mixing plant. F. O. Blake. No. 924,132; June 8; Sp. p. 2223; Gaz. vol. 143; p. 370.  
 Heating and ventilating system, Combined. M. F. Weidenbach and F. B. Peters. No. 921,033; May 11; Sp. p. 1909; Gaz. vol. 142; p. 338.  
 Heating and ventilating system, Combined. M. F. Weidenbach and F. B. Peters. No. 931,824; Aug. 24; Sp. p. 4659; Gaz. vol. 145; p. 807.  
 Heating apparatus. J. L. Waterbury. No. 915,134; Mar. 16; Sp. p. 3077; Gaz. vol. 140; p. 540.  
 Heating apparatus. L. H. Freymuth. No. 915,281; Mar. 16; Sp. p. 3359; Gaz. vol. 140; p. 586.  
 Heating apparatus. N. M. Eddy. No. 917,566; Apr. 6; Sp. p. 1180; Gaz. vol. 141; p. 206.  
 Heating apparatus. A. Zeck and F. Van Zeck. No. 919,110; Apr. 20; Sp. p. 4445; Gaz. vol. 141; p. 776.  
 Heating apparatus. M. Hirsch. No. 932,418; Aug. 24; Sp. p. 5875; Gaz. vol. 145; p. 1003.  
 Heating apparatus. G. B. Collier. No. 935,743; Oct. 5; Sp. p. 252; Gaz. vol. 147; p. 41.



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- Heating apparatus. E. B. Smith. No. 937,879; Oct. 26; Sp. p. 4758; Gaz. vol. 147; p. 822.  
 Heating apparatus. N. B. Wales. No. 940,567; Nov. 16; Sp. p. 4715; Gaz. vol. 148; p. 785.  
 Heating apparatus. J. M. W. Kitchen. No. 943,832; Dec. 21; Sp. p. 3868; Gaz. vol. 149; p. 673.  
 Heating apparatus, Electric. F. Conrad. No. 912,994; Feb. 23; Sp. p. 4079; Gaz. vol. 139; p. 740.  
 Heating apparatus, Electrical. W. E. Triumpler. No. 919,402; Apr. 27; Sp. p. 5237; Gaz. vol. 141; p. 907.  
 Heating apparatus, Gas. T. B. Jarvis. No. 926,699; June 29; Sp. p. 7480; Gaz. vol. 143; p. 1318.  
 Heating apparatus, Gas. W. E. Lawson. No. 943,617; Dec. 14; Sp. p. 3420; Gaz. vol. 149; p. 570.  
 Heating apparatus, Hot-air forming and feeding device for. J. Eckert. No. 925,570; June 22; Sp. p. 5172; Gaz. vol. 143; p. 912.  
 Heating apparatus, Hot-water. O. Oster. No. 910,016; Jan. 19; Sp. p. 3191; Gaz. vol. 138; p. 589.  
 Heating apparatus, Hot-water. O. Oster. No. 931,337; Aug. 17; Sp. p. 3637; Gaz. vol. 145; p. 627.  
 Heating apparatus, Portable hot-fluid. H. T. Offerdinger. No. 912,320; Feb. 16; Sp. p. 2676; Gaz. vol. 139; p. 490.  
 Heating apparatus, Steam-. M. P. Osbourn. No. 911,751; Feb. 9; Sp. p. 1436; Gaz. vol. 139; p. 268.  
 Heating apparatus, Water-. F. E. Lyon and T. H. Hickok. No. 913,832; Mar. 2; Sp. p. 315; Gaz. vol. 140; p. 54.  
 Heating by aid of vacuum, System of. C. C. Peck. No. 927,591; July 13; Sp. p. 1823; Gaz. vol. 144; p. 324.  
 Heating device. V. Perelzveich and G. Rosenbusch. No. 922,503; May 25; Sp. p. 4941; Gaz. vol. 142; p. 880.  
 Heating device. J. R. and E. D. Holley. No. 926,188; June 29; Sp. p. 6512; Gaz. vol. 143; p. 1152.  
 Heating device, Electric. A. E. Reimers. No. 910,725; Jan. 26; Sp. p. 4689; Gaz. vol. 138; p. 852.  
 Heating device, Electric. C. Aalborg. No. 912,985; Feb. 23; Sp. p. 4063; Gaz. vol. 139; p. 737.  
 Heating device, Electric. P. C. Chase. No. 918,732; Apr. 20; Sp. p. 3691; Gaz. vol. 141; p. 655.  
 Heating device, Electric. W. Sprenger. No. 925,050; June 15; Sp. p. 4190; Gaz. vol. 143; p. 713.  
 Heating device for lacquering. W. W. Vincent. No. 928,291; July 20; Sp. p. 3339; Gaz. vol. 144; p. 589.  
 Heating device, Orchard-. R. Henry. No. 922,478; May 25; Sp. p. 4900; Gaz. vol. 142; p. 873.  
 Heating device, Orchard-. F. E. Barney. No. 931,557; Aug. 17; Sp. p. 4053; Gaz. vol. 145; p. 698.  
 Heating, Electrical. W. M. Johnson. No. 937,074; Oct. 19; Sp. p. 3059; Gaz. vol. 147; p. 537.  
 Heating-furnace. J. L. McDonald. No. 909,926; Jan. 19; Sp. p. 3023; Gaz. vol. 138; p. 559.  
 Heating-furnace. L. C. Hammer. No. 924,774; June 15; Sp. p. 3614; Gaz. vol. 143; p. 620.  
 Heating-furnace. E. H. Robinson. No. 932,579; Aug. 31; Sp. p. 6250; Gaz. vol. 145; p. 1081.  
 Heating-furnace, Continuous. H. E. Smythe. No. 924,009; June 8; Sp. p. 2001; Gaz. vol. 143; p. 332.  
 Heating-furnace, Hot-air. D. S. Richardson. No. 909,672; Jan. 12; Sp. p. 2495; Gaz. vol. 138; p. 443.  
 Heating-furnace, Seal for continuous. H. E. Smythe. No. 930,811; Aug. 10; Sp. p. 2437; Gaz. vol. 145; p. 423.  
 Heating, Low-pressure. E. H. Gold. No. 922,131; May 18; Sp. p. 4181; Gaz. vol. 142; p. 731.  
 Heating medium for scientific and similar apparatus, Means for automatically regulating the supply of. G. S. Edelen. No. 923,957; June 8; Sp. p. 1889; Gaz. vol. 143; p. 316.  
 Heating plant, Hot-air. R. G. Elliott. No. 917,756; Apr. 13; Sp. p. 1577; Gaz. vol. 141; p. 297.  
 Heating plant, Room-. B. Körting. No. 922,783; May 25; Sp. p. 5532; Gaz. vol. 142; p. 972.  
 Heating-plate and water-heater, Combined. L. Galloway. No. 934,517; Sept. 21; Sp. p. 3112; Gaz. vol. 146; p. 543.  
 Heating storage-water, System of. J. L. Curran. No. 923,025; May 25; Sp. p. 6031; Gaz. vol. 142; p. 1050.  
 Heating system. A. G. Paul. No. 916,364; Mar. 23; Sp. p. 5473; Gaz. vol. 140; p. 971.  
 Heating system. J. D. Jones. No. 916,559; Mar. 30; Sp. p. 5916; Gaz. vol. 140; p. 1061.  
 Heating system. F. E. Baker. No. 917,521; Apr. 6; Sp. p. 1105; Gaz. vol. 141; p. 193.  
 Heating system. H. Lemp and W. G. Fisher. No. 919,364; Apr. 27; Sp. p. 5163; Gaz. vol. 141; p. 895.  
 Heating system. H. Lemp. No. 919,365; Apr. 27; Sp. p. 5166; Gaz. vol. 141; p. 895.  
 Heating system. H. Lemp. No. 919,366; Apr. 27; Sp. p. 5170; Gaz. vol. 141; p. 896.  
 Heating system. E. H. Gold. No. 926,734; July 6; Sp. p. 31; Gaz. vol. 144; p. 8.  
 Heating system. E. H. Gold. No. 928,041; July 13; Sp. p. 2783; Gaz. vol. 144; p. 474.  
 Heating system. E. H. Gold. No. 929,126; July 27; Sp. p. 5018; Gaz. vol. 144; p. 893.  
 Heating system. J. L. Sparks and E. R. Eddins. No. 929,720; Aug. 3; Sp. p. 168; Gaz. vol. 145; p. 30.  
 Heating system. J. Collis. No. 931,037; Aug. 17; Sp. p. 2962; Gaz. vol. 145; p. 523.  
 Heating system. D. M. Stott. No. 932,349; Aug. 24; Sp. p. 5747; Gaz. vol. 145; p. 981.  
 Heating system. A. G. Paul. No. 937,689; Oct. 19; Sp. p. 4340; Gaz. vol. 147; p. 739.  
 Heating system. N. M. Finley. No. 944,183; Dec. 21; Sp. p. 4612; Gaz. vol. 149; p. 791.  
 Heating system. E. H. Gold. No. 944,187; Dec. 21; Sp. p. 4618; Gaz. vol. 149; p. 792.  
 Heating system. E. H. Gold. (Reissue). No. 13,059; Dec. 21; Sp. p. 4737; Gaz. vol. 149; p. 812.  
 Heating system and regulator therefor, Water-. C. E. Knickerbocker. No. 932,615; Aug. 31; Sp. p. 6339; Gaz. vol. 145; p. 1093.  
 Heating system, Car-. E. H. Gold. No. 931,595; Aug. 17; Sp. p. 4120; Gaz. vol. 145; p. 709.  
 Heating system, Convertible. E. H. Gold. No. 925,896; June 22; Sp. p. 5897; Gaz. vol. 143; p. 1019.  
 Heating system, Duplex. E. H. Gold. No. 923,968; June 8; Sp. p. 1913; Gaz. vol. 143; p. 319.  
 Heating system, Hot-air. R. G. Speer. No. 921,019; May 11; Sp. p. 1883; Gaz. vol. 142; p. 333.  
 Heating system, Hot-air-furnace. T. E. Hunt. No. 926,332; June 29; Sp. p. 6804; Gaz. vol. 143; p. 1197.  
 Heating system, Hot-water. A. E. Crowhurst. No. 913,364; Feb. 23; Sp. p. 4829; Gaz. vol. 139; p. 865.  
 Heating system, Hot-water. H. K. and I. Z. Kriebel. No. 917,952; Apr. 13; Sp. p. 1995; Gaz. vol. 141; p. 363.  
 Heating system, Low-pressure fluid-. E. H. Gold. No. 912,467; Feb. 16; Sp. p. 2972; Gaz. vol. 139; p. 538.  
 Heating system, Low-pressure fluid-. E. H. Gold. No. 928,040; July 13; Sp. p. 2779; Gaz. vol. 144; p. 474.  
 Heating system, Low-pressure steam and analogous. B. R. Doody. No. 911,215; Feb. 2; Sp. p. 377; Gaz. vol. 139; p. 66.  
 Heating-system regulator, Hot-water-. J. M. McKeown. No. 913,033; Feb. 23; Sp. p. 4142; Gaz. vol. 139; p. 752.  
 Heating system, Steam-. R. E. Atkinson. No. 920,244; May 4; Sp. p. 321; Gaz. vol. 142; p. 50.  
 Heating system, Steam-. F. E. Siebenmann. No. 921,473; May 11; Sp. p. 2837; Gaz. vol. 142; p. 487.  
 Heating system, Steam-. D. Broadbelt. No. 935,960; Oct. 5; Sp. p. 766; Gaz. vol. 147; p. 114.  
 Heating system, Vacuum steam-. J. L. Sparks. No. 929,800; Aug. 3; Sp. p. 362; Gaz. vol. 145; p. 60.  
 Heating system, Vapor. J. D. Arnold. No. 909,737; Jan. 12; Sp. p. 2633; Gaz. vol. 138; p. 465.  
 Heating system, Variable-volume. E. H. Gold. No. 929,934; Aug. 3; Sp. p. 666; Gaz. vol. 145; p. 106.  
 Heating system, Water-. C. A. Cartwright. No. 918,961; Apr. 20; Sp. p. 4180; Gaz. vol. 141; p. 730.  
 Heating systems, Apparatus for hot-water. C. C. Peck. No. 918,901; Apr. 20; Sp. p. 4049; Gaz. vol. 141; p. 711.  
 Heating systems, Fresh-air-intake device for. C. H. Smith and M. F. Weidenbach. No. 926,217; June 29; Sp. p. 6580; Gaz. vol. 143; p. 1162.  
 Heating systems, Water-intake valve and safety device for hot-water. G. C. Andrews. No. 909,857; Jan. 19; Sp. p. 2864; Gaz. vol. 138; p. 535.  
 Heddle-making machine. C. B. Borgeson. No. 923,011; May 25; Sp. p. 5996; Gaz. vol. 142; p. 1046.  
 Hedge-trimmer. L. Klitsch and O. W. Thogode. No. 914,731; Mar. 9; Sp. p. 2275; Gaz. vol. 140; p. 381.  
 Hedge-trimmer. D. F. Roche, Jr. No. 914,882; Mar. 9; Sp. p. 2584; Gaz. vol. 140; p. 431.  
 Heel. M. H. Finn. No. 911,120; Feb. 2; Sp. p. 188; Gaz. vol. 139; p. 35.  
 Heel. H. R. Manz. No. 912,479; Feb. 16; Sp. p. 2999; Gaz. vol. 139; p. 542.  
 Heel. W. C. Kempton. No. 937,535; Oct. 19; Sp. p. 4063; Gaz. vol. 147; p. 691.  
 Heel and protector therefor, Boot-. J. W. Baddock. No. 922,555; May 25; Sp. p. 5062; Gaz. vol. 142; p. 899.  
 Heel and top-lift holder. W. C. Stewart. No. 944,389; Dec. 28; Sp. p. 5040; Gaz. vol. 149; p. 889.  
 Heel-attaching device. H. E. Burnham. No. 929,830; Aug. 3; Sp. p. 425; Gaz. vol. 145; p. 71.  
 Heel-beading machine. W. C. Stewart and W. H. Hooper. No. 944,294; Dec. 28; Sp. p. 4846; Gaz. vol. 149; p. 855.  
 Heel-blank-assembly machine. G. B. Grover. No. 920,457; May 4; Sp. p. 741; Gaz. vol. 142; p. 118.  
 Heel-blanks, Machine for cutting the lips of. G. B. Grover. No. 927,140; July 6; Sp. p. 917; Gaz. vol. 144; p. 148.  
 Heel, Boot or shoe. K. C. Rogers. No. 930,990; Aug. 10; Sp. p. 2845; Gaz. vol. 145; p. 480.  
 Heel-breasting mechanism. W. C. Evans and E. H. Taylor. No. 923,782; June 1; Sp. p. 1513; Gaz. vol. 143; p. 228.  
 Heel-building machine. A. M. Simmons. No. 914,462; Mar. 9; Sp. p. 1704; Gaz. vol. 140; p. 292.  
 Heel-building machine. J. A. Josselyn. No. 915,356; Mar. 16; Sp. p. 3502; Gaz. vol. 140; p. 611.  
 Heel-building machine. W. Paris. No. 939,302; Nov. 9; Sp. p. 1885; Gaz. vol. 148; p. 321.  
 Heel-burnishing tool. C. G. Belmer. No. 937,355; Oct. 19; Sp. p. 3652; Gaz. vol. 147; p. 628.  
 Heel-compressing machine. G. B. Grover. No. 939,686; Nov. 9; Sp. p. 2736; Gaz. vol. 148; p. 452.  
 Heel-counters, &c., Machine for making skived blanks for. L. L. Hartwell. No. 942,557; Dec. 7; Sp. p. 1105; Gaz. vol. 149; p. 179.  
 Heel-cushion. M. B. Crane. No. 927,831; July 13; Sp. p. 2343; Gaz. vol. 144; p. 404.  
 Heel, Cushion-. J. Cairns. No. 935,089; Sept. 28; Sp. p. 4260; Gaz. vol. 146; p. 762.  
 Heel-cushion for shoes. L. E. Cummings. No. 922,094; May 18; Sp. p. 4121; Gaz. vol. 142; p. 720.  
 Heel-cushion, Pneumatic. W. L. Gordon. No. 933,551; Sept. 7; Sp. p. 1213; Gaz. vol. 146; p. 177.  
 Heel, Detachable. E. Rennie. No. 936,037; Oct. 5; Sp. p. 923; Gaz. vol. 147; p. 139.  
 Heel for boots and shoes, Composite. E. C. Leahy. No. 931,438; Aug. 17; Sp. p. 3843; Gaz. vol. 145; p. 662.  
 Heel for boots and shoes, Pneumatic. J. V. Lambert. No. 925,354; June 15; Sp. p. 4751; Gaz. vol. 143; p. 811.

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- Heel for boots or shoes, Elastic. C. M. Jagers. No. 944,558; Dec. 28; Sp. p. 5459; Gaz. vol. 149; p. 948.  
 Heel for shoes, Cushion-. J. G. Daubert. No. 937,425; Oct. 19; Sp. p. 3827; Gaz. vol. 147; p. 653.  
 Heel-indenting machine. J. H. Warren. No. 930,510; Aug. 10; Sp. p. 1791; Gaz. vol. 145; p. 321.  
 Heel-lift cutter. R. W. Perry. No. 911,905; Feb. 9; Sp. p. 1713; Gaz. vol. 139; p. 318.  
 Heel-lift sections, Machine for assembling. W. P. Bosworth. No. 923,485; June 1; Sp. p. 828; Gaz. vol. 143; p. 125.  
 Heel-nailing machine. A. Godfrey. No. 916,948; Mar. 30; Sp. p. 6650; Gaz. vol. 140; p. 1185.  
 Heel-nailing machines, Cementing attachment for. E. A. Webster and C. R. Towle. No. 943,723; Dec. 21; Sp. p. 3657; Gaz. vol. 149; p. 635.  
 Heel-pad. F. W. Kreck and G. C. Bruns. No. 912,579; Feb. 16; Sp. p. 3224; Gaz. vol. 139; p. 578.  
 Heel-plate. E. Frank. No. 925,690; June 22; Sp. p. 5426; Gaz. vol. 143; p. 949.  
 Heel-protecting plate, Embedded. S. Toles. No. 921,182; May 11; Sp. p. 2217; Gaz. vol. 142; p. 390.  
 Heel-protector for rubber shoes and the like, Metal. F. W. Boxer. No. 931,261; Aug. 17; Sp. p. 3461; Gaz. vol. 145; p. 601.  
 Heel, Shoe-. M. Molitor. No. 922,499; May 25; Sp. p. 4936; Gaz. vol. 142; p. 879.  
 Heel-spring. T. Dee. No. 933,422; Sept. 7; Sp. p. 870; Gaz. vol. 146; p. 135.  
 Heel-sweep, Reversible and adjustable. J. H. Brockman. No. 938,963; Nov. 2; Sp. p. 1115; Gaz. vol. 148; p. 178.  
 Heels, Making boot and shoe. W. P. Bosworth. No. 936,295; Oct. 12; Sp. p. 1424; Gaz. vol. 147; p. 248.  
 Height-gage. F. O. Jaques. No. 924,668; June 15; Sp. p. 3388; Gaz. vol. 143; p. 583.  
 Hem guide and measuring device. S. O. Geahart. No. 929,083; July 27; Sp. p. 4928; Gaz. vol. 144; p. 878.  
 Hemp-brake. H. C. Anderson. No. 921,499; May 11; Sp. p. 2886; Gaz. vol. 142; p. 497.  
 Hemstitcher-disk. H. A. Eichorn. No. 919,706; Apr. 27; Sp. p. 5894; Gaz. vol. 141; p. 1012.  
 Hemstitching device. H. A. Eichorn. No. 915,945; Mar. 23; Sp. p. 4695; Gaz. vol. 140; p. 834.  
 Hermetic closure. W. A. Lorenz. No. 930,298; Aug. 3; Sp. p. 1367; Gaz. vol. 145; p. 227.  
 Hermetically closing vessels, Composition for use in. C. Jovignot. No. 920,959; May 11; Sp. p. 1769; Gaz. vol. 142; p. 959.  
 Hernia-support. F. J. Stuart. No. 917,376; Apr. 6; Sp. p. 849; Gaz. vol. 141; p. 145.  
 Hicky. L. McCarthy. No. 912,594; Feb. 16; Sp. p. 3247; Gaz. vol. 139; p. 582.  
 Hide-supporting device. H. S. Crombie. No. 933,522; Oct. 12; Sp. p. 1057; Gaz. vol. 147; p. 323.  
 Hide-tanning apparatus. E. F. Smith. No. 917,370; Apr. 6; Sp. p. 838; Gaz. vol. 141; p. 144.  
 Hide-treating machine, Short-cylinder. A. H. Kehrbaum. No. 926,811; July 6; Sp. p. 208; Gaz. vol. 144; p. 35.  
 Hides, Splitting-machine for stripping off flesh from. A. H. Kehrbaum. No. 944,188; Dec. 28; Sp. p. 5288; Gaz. vol. 149; p. 923.  
 High-speed brake. W. B. Mann. No. 912,392; Feb. 16; Sp. p. 2827; Gaz. vol. 139; p. 514.  
 High-speed brake. W. V. Turner. No. 936,059; Oct. 5; Sp. p. 974; Gaz. vol. 147; p. 146.  
 Hinge. W. C. Boswell. No. 908,941; Jan. 5; Sp. p. 1039; Gaz. vol. 138; p. 167.  
 Hinge. H. Lange. No. 911,137; Feb. 2; Sp. p. 229; Gaz. vol. 139; p. 41.  
 Hinge. L. W. Ashley. No. 911,694; Feb. 9; Sp. p. 1340; Gaz. vol. 139; p. 249.  
 Hinge. A. Krauth. No. 914,581; Mar. 9; Sp. p. 1944; Gaz. vol. 140; p. 332.  
 Hinge. A. N. Thomas. No. 915,905; Mar. 23; Sp. p. 4627; Gaz. vol. 140; p. 821.  
 Hinge. B. J. Aurand. No. 916,648; Mar. 30; Sp. p. 6079; Gaz. vol. 140; p. 1089.  
 Hinge. H. Ernst. No. 918,135; Apr. 13; Sp. p. 2391; Gaz. vol. 141; p. 428.  
 Hinge. C. L. Brooks. No. 918,731; Apr. 20; Sp. p. 3690; Gaz. vol. 141; p. 654.  
 Hinge. W. J. Keene. No. 919,881; Apr. 27; Sp. p. 6270; Gaz. vol. 141; p. 1070.  
 Hinge. W. J. Keene. No. 919,882; Apr. 27; Sp. p. 6272; Gaz. vol. 141; p. 1070.  
 Hinge. F. C. Miller. No. 920,005; May 4; Sp. p. 1031; Gaz. vol. 142; p. 168.  
 Hinge. F. Kell. No. 920,960; May 11; Sp. p. 1770; Gaz. vol. 142; p. 314.  
 Hinge. D. W. Lenahan. No. 922,005; May 25; Sp. p. 5109; Gaz. vol. 142; p. 915.  
 Hinge. C. W. Ellerbe. No. 923,037; May 25; Sp. p. 6059; Gaz. vol. 142; p. 1054.  
 Hinge. G. H. Davis. No. 923,250; June 1; Sp. p. 270; Gaz. vol. 143; p. 45.  
 Hinge. J. E. Ahlvin. No. 923,400; June 1; Sp. p. 602; Gaz. vol. 143; p. 96.  
 Hinge. A. J. D. Heins. No. 923,518; June 1; Sp. p. 901; Gaz. vol. 143; p. 138.  
 Hinge. C. F. Anderson. No. 924,412; June 8; Sp. p. 2852; Gaz. vol. 143; p. 466.  
 Hinge. H. E. Hoke. No. 925,910; June 22; Sp. p. 5921; Gaz. vol. 143; p. 1023.  
 Hinge. O. J. Theriault. No. 926,365; June 29; Sp. p. 6863; Gaz. vol. 143; p. 1207.  
 Hinge. G. H. Maas. No. 926,949; July 6; Sp. p. 507; Gaz. vol. 144; p. 83.  
 Hinge. F. V. Madden. No. 929,615; July 27; Sp. p. 6018; Gaz. vol. 144; p. 1053.  
 Hinge. C. Anderson. No. 929,646; Aug. 3; Sp. p. 1; Gaz. vol. 145; p. 3.  
 Hinge. W. S. Maxwell. No. 931,697; Aug. 17; Sp. p. 4375; Gaz. vol. 145; p. 743.  
 Hinge. F. B. Austin. No. 931,715; Aug. 24; Sp. p. 4431; Gaz. vol. 145; p. 772.  
 Hinge. W. H. Fromhart. No. 931,857; Aug. 24; Sp. p. 4723; Gaz. vol. 145; p. 818.  
 Hinge. J. H. Kaufman. No. 933,648; Sept. 7; Sp. p. 1386; Gaz. vol. 146; p. 208.  
 Hinge. A. F. Englerth. No. 934,149; Sept. 14; Sp. p. 2418; Gaz. vol. 146; p. 397.  
 Hinge. A. D. Perkins. No. 935,611; Sept. 28; Sp. p. 5317; Gaz. vol. 146; p. 933.  
 Hinge. J. L. Larkin and J. C. Woody. No. 938,669; Nov. 2; Sp. p. 498; Gaz. vol. 148; p. 76.  
 Hinge. D. Wilde. No. 942,689; Dec. 7; Sp. p. 1356; Gaz. vol. 149; p. 343.  
 Hinge. J. Flindall. No. 942,723; Dec. 7; Sp. p. 1436; Gaz. vol. 149; p. 234.  
 Hinge. T. G. Riordan. No. 943,997; Dec. 21; Sp. p. 4238; Gaz. vol. 149; p. 730.  
 Hinge and article-hanger, Combined. H. G. Bryant. No. 914,697; Mar. 9; Sp. p. 2203; Gaz. vol. 140; p. 370.  
 Hinge and brace, Adjustable. T. D. Meyer. No. 923,468; July 20; Sp. p. 3655; Gaz. vol. 144; p. 648.  
 Hinge and bracket, Combined. L. Bertrand. No. 931,028; Aug. 17; Sp. p. 2943; Gaz. vol. 145; p. 521.  
 Hinge and door-check, Combined spring-. D. W. Thornton and P. L. Hoadley. No. 926,520; June 29; Sp. p. 7131; Gaz. vol. 143; p. 1259.  
 Hinge and supporting box-flange. W. J. Keene and G. W. Schuster. No. 919,726; Apr. 27; Sp. p. 5931; Gaz. vol. 141; p. 1018.  
 Hinge, Blind-. J. H. Garber. No. 919,150; Apr. 20; Sp. p. 4522; Gaz. vol. 141; p. 790.  
 Hinge, Blind-. A. Gen. No. 919,154; Apr. 20; Sp. p. 4526; Gaz. vol. 141; p. 791.  
 Hinge, Blind-. G. W. Ellington. No. 920,292; May 4; Sp. p. 434; Gaz. vol. 142; p. 66.  
 Hinge, Cover-. C. G. Bloomer, Jr. No. 935,087; Sept. 28; Sp. p. 4258; Gaz. vol. 146; p. 761.  
 Hinge, Detachable. J. F. Melton. No. 909,436; Jan. 12; Sp. p. 2029; Gaz. vol. 138; p. 361.  
 Hinge, Detachable. W. H. Eschbach. No. 920,936; May 11; Sp. p. 1729; Gaz. vol. 142; p. 307.  
 Hinge device for window-sashes. C. F. O'Connor. No. 929,976; Aug. 3; Sp. p. 746; Gaz. vol. 145; p. 120.  
 Hinge, Door-. C. Keith and G. F. Lister. No. 922,289; May 18; Sp. p. 4508; Gaz. vol. 142; p. 782.  
 Hinge, Door-. C. M. Hughes. No. 932,129; Aug. 24; Sp. p. 5326; Gaz. vol. 145; p. 908.  
 Hinge, Door or window. J. Jordan. No. 917,768; Apr. 13; Sp. p. 1621; Gaz. vol. 141; p. 301.  
 Hinge, Double-acting. J. A. Fischer. No. 941,239; Nov. 23; Sp. p. 6167; Gaz. vol. 148; p. 1034.  
 Hinge, Double-acting spring-. M. A. Erickson. No. 927,340; July 6; Sp. p. 1283; Gaz. vol. 144; p. 212.  
 Hinge, Double-acting spring-. E. Bommer. No. 941,185; Nov. 23; Sp. p. 6058; Gaz. vol. 148; p. 1016.  
 Hinge, Double-acting spring-. E. Bommer. No. 943,807; Dec. 21; Sp. p. 3821; Gaz. vol. 149; p. 664.  
 Hinge, Extensible. W. F. Hunter. No. 928,760; July 20; Sp. p. 4209; Gaz. vol. 144; p. 744.  
 Hinge, Flask-. P. S. Poindexter. No. 937,093; Oct. 19; Sp. p. 3097; Gaz. vol. 147; p. 544.  
 Hinge, Flush. J. E. Wheat. No. 918,802; Apr. 20; Sp. p. 3818; Gaz. vol. 141; p. 676.  
 Hinge for doors, Spring-. E. C. Scruggs. No. 938,797; Nov. 2; Sp. p. 739; Gaz. vol. 148; p. 120.  
 Hinge for electrical and other devices, Spring-. L. H. Moulthrop. No. 927,373; July 6; Sp. p. 1340; Gaz. vol. 144; p. 223.  
 Hinge for handled vessels, Cover-. R. A. Neely and E. L. Holland. No. 924,922; June 15; Sp. p. 3919; Gaz. vol. 143; p. 669.  
 Hinge, Gate-. G. C. Mason. No. 929,682; Aug. 3; Sp. p. 80; Gaz. vol. 145; p. 15.  
 Hinge, Gate-. M. A. Stickley. No. 932,347; Aug. 24; Sp. p. 5744; Gaz. vol. 145; p. 980.  
 Hinge, Gate-. A. Higgins. No. 937,804; Oct. 26; Sp. p. 4598; Gaz. vol. 147; p. 797.  
 Hinge, Gate or door. C. W. Cook. No. 924,430; June 8; Sp. p. 2882; Gaz. vol. 143; p. 471.  
 Hinge, Gravitating. W. E. Rape. No. 937,548; Oct. 19; Sp. p. 4090; Gaz. vol. 147; p. 695.  
 Hinge-hanger. G. E. Levertion. No. 942,784; Dec. 7; Sp. p. 1552; Gaz. vol. 149; p. 255.  
 Hinge holder, Detachable. C. E. Morrison. No. 943,363; Dec. 14; Sp. p. 2864; Gaz. vol. 149; p. 482.  
 Hinge, Invisible. H. R. Canfield. No. 941,672; Nov. 30; Sp. p. 7086; Gaz. vol. 148; p. 1197.  
 Hinge-joint for folding window-screens. A. C. Auster. No. 920,713; May 4; Sp. p. 1278; Gaz. vol. 142; p. 204.  
 Hinge-joint for lockets, &c. E. Morris. No. 939,530; Nov. 9; Sp. p. 2395; Gaz. vol. 148; p. 397.  
 Hinge, Lock-. T. L. A. Hellwig. No. 929,304; July 27; Sp. p. 5410; Gaz. vol. 144; p. 952.  
 Hinge mechanism for windows, &c. T. I. Duffy. No. 925,568; June 22; Sp. p. 5169; Gaz. vol. 143; p. 911.  
 Hinge, Pintle-. F. Meyer. No. 931,630; Aug. 17; Sp. p. 4198; Gaz. vol. 145; p. 720.  
 Hinge, Post-. W. S. Emery. No. 923,038; May 25; Sp. p. 6060; Gaz. vol. 142; p. 1055.



*Alphabetical list of inventions—Continued.*

- Hinge, Segmental. W. Favreau. No. 935,594; Sept. 28; Sp. p. 5282; Gaz. vol. 146; p. 927.  
Hinge, Separable. J. R. Corbett. No. 932,601; Aug. 31; Sp. p. 6292; Gaz. vol. 145; p. 1058.  
Hinge-socket cutter. J. Salois. No. 911,909; Feb. 9; Sp. p. 1723; Gaz. vol. 139; p. 319.  
Hinge, Spring-. G. M. Hughes. No. 916,447; Mar. 30; Sp. p. 5663; Gaz. vol. 140; p. 1024.  
Hinge, Spring-. F. Brucker. No. 918,502; Apr. 20; Sp. p. 3143; Gaz. vol. 141; p. 576.  
Hinge, Spring-. E. Bommer. No. 924,422; June 8; Sp. p. 2870; Gaz. vol. 143; p. 469.  
Hinge, Spring-. H. W. Steele. (Reissue.) No. 12,978; June 22; Sp. p. 6282; Gaz. vol. 143; p. 1082.  
Hinge, Spring-. W. P. Collins. No. 936,090; Oct. 5; Sp. p. 1037; Gaz. vol. 147; p. 157.  
Hinge, Spring-. A. Danielson. No. 937,053; Oct. 19; Sp. p. 3018; Gaz. vol. 147; p. 530.  
Hinge structure, Gate-. G. I. Kendrick and J. Carroll. No. 939,706; Nov. 9; Sp. p. 2777; Gaz. vol. 148; p. 458.  
Hinge, Watchcase-. L. S. Hanson. No. 918,043; Apr. 13; Sp. p. 2203; Gaz. vol. 141; p. 396.  
Hinge, Wire. F. W. Lowe. No. 944,681; Dec. 28; Sp. p. 5704; Gaz. vol. 149; p. 989.  
Hinges, Manufacturing butt-. G. Weber. No. 919,504; Apr. 27; Sp. p. 5491; Gaz. vol. 141; p. 943.  
Hinging-gage. W. H. Gelbaugh. No. 940,001; Nov. 16; Sp. p. 3421; Gaz. vol. 148; p. 589.  
Hitch and checking device, Horse. J. T. Doyle. No. 944,547; Dec. 28; Sp. p. 5429; Gaz. vol. 149; p. 944.  
Hitch-strap holder. B. K. Hendricks. No. 916,311; Mar. 23; Sp. p. 5374; Gaz. vol. 140; p. 954.  
Hitching and steering device. L. B. McAlpine. No. 941,939; Nov. 30; Sp. p. 7666; Gaz. vol. 148; p. 1291.  
Hitching device. J. Siemsen. No. 911,771; Feb. 9; Sp. p. 1470; Gaz. vol. 139; p. 274.  
Hitching device. H. A. Wettstein. No. 926,448; June 29; Sp. p. 7015; Gaz. vol. 143; p. 1236.  
Hitching device. E. L. Harmer. No. 931,419; Aug. 17; Sp. p. 3800; Gaz. vol. 145; p. 656.  
Hitching device, Detachable. W. Hazzard. No. 937,800; Oct. 26; Sp. p. 4592; Gaz. vol. 147; p. 796.  
Hitching device for vehicles drawn by horses, Safety. D. A. Callaway. No. 924,731; June 15; Sp. p. 3518; Gaz. vol. 143; p. 605.  
Hitching device, Horse-. R. Cardin. No. 928,629; July 20; Sp. p. 4015; Gaz. vol. 144; p. 700.  
Hitching device, Safety. W. B. Church and J. H. McCall. No. 931,844; Aug. 24; Sp. p. 4697; Gaz. vol. 145; p. 814.  
Hitching device, Safety. L. J. Benjamin. No. 934,707; Sept. 21; Sp. p. 3491; Gaz. vol. 146; p. 607.  
Hitching-post. C. A. Miller. No. 930,208; Aug. 3; Sp. p. 1210; Gaz. vol. 145; p. 198.  
Hitching-strap fastening. V. O. Parker. No. 927,275; July 6; Sp. p. 1177; Gaz. vol. 144; p. 193.  
Hobby-horse, Progressing. O. W. Badger. No. 930,265; Aug. 3; Sp. p. 1305; Gaz. vol. 145; p. 216.  
Hod. H. McLane. No. 940,350; Nov. 16; Sp. p. 4226; Gaz. vol. 148; p. 713.  
Hoe. S. W. Shanks. No. 917,670; Apr. 6; Sp. p. 1374; Gaz. vol. 141; p. 242.  
Hoe. M. O. Whitehorn. No. 917,980; Apr. 13; Sp. p. 2065; Gaz. vol. 141; p. 373.  
Hoe. E. Senn. No. 922,202; May 18; Sp. p. 4341; Gaz. vol. 142; p. 755.  
Hoe. G. F. A. Sordii. No. 926,220; June 29; Sp. p. 6583; Gaz. vol. 143; p. 1163.  
Hoe. W. S. Davis. No. 928,590; July 20; Sp. p. 3928; Gaz. vol. 144; p. 686.  
Hoe. H. A. Congdon. No. 932,249; Aug. 24; Sp. p. 5565; Gaz. vol. 145; p. 948.  
Hoe. H. W. Richards. No. 936,038; Oct. 5; Sp. p. 924; Gaz. vol. 147; p. 139.  
Hoe. O. T. Cuppet. No. 937,927; Oct. 26; Sp. p. 4858; Gaz. vol. 147; p. 839.  
Hoe and weeder, Garden. J. S. Worcester. No. 924,124; June 8; Sp. p. 2207; Gaz. vol. 143; p. 368.  
Hoe, Scuffle-. A. S. Knapp. No. 935,116; Sept. 28; Sp. p. 4322; Gaz. vol. 146; p. 771.  
Hoe-seeder. L. A. Sandoe. No. 936,366; Oct. 12; Sp. p. 1599; Gaz. vol. 147; p. 272.  
Hoe, Weeding or chopping. T. J. King. No. 932,872; Aug. 31; Sp. p. 6853; Gaz. vol. 145; p. 1176.  
Hoe-cleaning machine. G. Roth. No. 919,775; Apr. 27; Sp. p. 6017; Gaz. vol. 141; p. 1035.  
Hoe-cleaning vat. J. C. Cartmill. No. 944,230; Dec. 21; Sp. p. 4698; Gaz. vol. 149; p. 805.  
Hoe-hanger. E. Shively. No. 911,770; Feb. 9; Sp. p. 1470; Gaz. vol. 139; p. 274.  
Hoe-ring. R. Roethlisberger. No. 909,229; Jan. 12; Sp. p. 1638; Gaz. vol. 138; p. 295.  
Hoe-ring. R. Roethlisberger. No. 928,155; July 13; Sp. p. 2989; Gaz. vol. 144; p. 511.  
Hoe-ringer. E. G. Burkhardt. No. 908,947; Jan. 5; Sp. p. 1049; Gaz. vol. 138; p. 169.  
Hoe-ringer. W. F. Barnhardt. No. 921,790; May 18; Sp. p. 3491; Gaz. vol. 142; p. 621.  
Hoe-scraping machines, Beater for. W. Gussenhoven. No. 938,761; Nov. 2; Sp. p. 668; Gaz. vol. 148; p. 106.  
Hog-trap. J. Dobry. No. 939,228; Nov. 9; Sp. p. 1694; Gaz. vol. 148; p. 294.  
Hog-waterer, Automatic. C. Pelmulder. No. 913,158; Feb. 23; Sp. p. 4398; Gaz. vol. 139; p. 795.  
Hoist. S. H. Libby. No. 927,417; July 6; Sp. p. 1434; Gaz. vol. 144; p. 238.  
Hoist-block. W. G. Stephan. No. 912,434; Feb. 16; Sp. p. 2907; Gaz. vol. 139; p. 528.  
Hoist, Electric. A. A. C. Gese. No. 935,363; Sept. 28; Sp. p. 4809; Gaz. vol. 146; p. 850.  
Hoist, Fluid-pressure. E. D. Smith. No. 910,426; Jan. 19; Sp. p. 4078; Gaz. vol. 138; p. 730.  
Hoist, Pneumatic. B. Walter. No. 917,688; Apr. 6; Sp. p. 1409; Gaz. vol. 141; p. 248.  
Hoist, Portable. J. L. Pilling. No. 917,356; Apr. 6; Sp. p. 813; Gaz. vol. 141; p. 139.  
Hoist, Portable. J. L. Klaus and M. J. Gadiant. No. 936,911; Oct. 12; Sp. p. 2727; Gaz. vol. 147; p. 455.  
Hoist, Skip-. P. A. Orton. No. 930,685; Aug. 10; Sp. p. 2174; Gaz. vol. 145; p. 380.  
Hoist with adjustable counterweight, Counterbalance-. W. Van Wie. No. 909,970; Jan. 19; Sp. p. 3108; Gaz. vol. 138; p. 575.  
Hoisting and conveying apparatus. A. E. Norris. No. 922,807; May 25; Sp. p. 5578; Gaz. vol. 142; p. 980.  
Hoisting and conveying apparatus. W. M. Shaw. No. 923,899; June 8; Sp. p. 1783; Gaz. vol. 143; p. 297.  
Hoisting and dredging bucket. L. Rauhauser. No. 926,132; June 29; Sp. p. 6370; Gaz. vol. 143; p. 1131.  
Hoisting and dumping apparatus. T. C. Wright. No. 929,530; July 27; Sp. p. 5835; Gaz. vol. 144; p. 1025.  
Hoisting and suspension apparatus. F. H. Wagner. No. 917,686; Apr. 6; Sp. p. 1404; Gaz. vol. 141; p. 247.  
Hoisting apparatus. F. F. Joseph. No. 911,883; Feb. 9; Sp. p. 1671; Gaz. vol. 139; p. 310.  
Hoisting apparatus. F. W. Lovell. No. 913,020; Feb. 23; Sp. p. 4123; Gaz. vol. 139; p. 749.  
Hoisting apparatus. H. C. Anderson. No. 917,919; Apr. 13; Sp. p. 1940; Gaz. vol. 141; p. 351.  
Hoisting apparatus. C. A. Dixon. No. 920,930; May 11; Sp. p. 1714; Gaz. vol. 142; p. 314.  
Hoisting apparatus. E. N. Drew. No. 922,105; May 18; Sp. p. 4140; Gaz. vol. 142; p. 723.  
Hoisting apparatus. H. Aumund. No. 922,554; May 25; Sp. p. 5059; Gaz. vol. 142; p. 899.  
Hoisting apparatus. W. F. Murray. No. 922,937; May 25; Sp. p. 5869; Gaz. vol. 142; p. 1023.  
Hoisting apparatus. C. Conklin. No. 923,022; May 25; Sp. p. 6024; Gaz. vol. 142; p. 1049.  
Hoisting apparatus. N. W. Morley. No. 923,685; June 1; Sp. p. 1259; Gaz. vol. 143; p. 196.  
Hoisting apparatus. F. M. Basham and J. O. Donaldson. No. 926,314; June 29; Sp. p. 6754; Gaz. vol. 143; p. 1191.  
Hoisting apparatus. C. H. Hartwig. No. 932,468; Aug. 31; Sp. p. 6006; Gaz. vol. 145; p. 1043.  
Hoisting apparatus. H. W. Bachelder. No. 939,955; Nov. 9; Sp. p. 3309; Gaz. vol. 148; p. 546.  
Hoisting apparatus. G. Hammond. No. 940,148; Nov. 16; Sp. p. 3768; Gaz. vol. 148; p. 642.  
Hoisting apparatus, Automatic lock for. R. M. Rodgers. No. 934,759; Sept. 21; Sp. p. 3583; Gaz. vol. 146; p. 624.  
Hoisting appliance. A. Smith. No. 929,508; July 27; Sp. p. 5798; Gaz. vol. 144; p. 1018.  
Hoisting appliance. I. C. Mouton. No. 941,722; Nov. 30; Sp. p. 7208; Gaz. vol. 148; p. 1215.  
Hoisting attachment and cornice-protector. J. H. Marvin. No. 914,854; Mar. 9; Sp. p. 2524; Gaz. vol. 140; p. 422.  
Hoisting-cylinder. M. F. Berry. No. 928,100; July 13; Sp. p. 2882; Gaz. vol. 144; p. 492.  
Hoisting device. M. Kimble. No. 917,311; Apr. 6; Sp. p. 732; Gaz. vol. 141; p. 125.  
Hoisting device. H. A. Myers. No. 942,735; Dec. 7; Sp. p. 1454; Gaz. vol. 149; p. 238.  
Hoisting-drums, Movable flange for. G. F. Roughan. No. 940,826; Nov. 23; Sp. p. 5287; Gaz. vol. 148; p. 897.  
Hoisting-engine. C. Campbell. No. 908,948; Jan. 5; Sp. p. 1050; Gaz. vol. 138; p. 169.  
Hoisting-hook. E. Stretch. No. 910,739; Jan. 26; Sp. p. 4717; Gaz. vol. 138; p. 858.  
Hoisting-machine. J. Bowles. No. 928,626; July 20; Sp. p. 4002; Gaz. vol. 144; p. 698.  
Hoisting-machine. C. F. Dallman. No. 928,851; July 20; Sp. p. 4436; Gaz. vol. 144; p. 774.  
Hoisting-machine. E. S. Robertson. No. 929,168; July 27; Sp. p. 5105; Gaz. vol. 144; p. 907.  
Hoisting machinery, Clutch for winding-drums of. C. P. Turner. No. 928,482; July 20; Sp. p. 3707; Gaz. vol. 144; p. 652.  
Hoisting mechanism. G. A. Armington. No. 933,356; Sept. 7; Sp. p. 727; Gaz. vol. 146; p. 114.  
Hoisting mechanism for cranes. H. Sawyer. No. 943,956; Dec. 21; Sp. p. 4133; Gaz. vol. 149; p. 716.  
Hoisting or carrying mechanism for barns. M. S. Yoder. No. 923,923; June 8; Sp. p. 1826; Gaz. vol. 143; p. 305.  
Hoisting or conveying apparatus. A. E. Norris. No. 939,294; Nov. 9; Sp. p. 1846; Gaz. vol. 148; p. 318.  
Hoisting or logging device. W. H. Corbett. No. 939,670; Nov. 9; Sp. p. 2710; Gaz. vol. 148; p. 447.  
Holdback. C. Hastings. No. 928,602; July 20; Sp. p. 3963; Gaz. vol. 144; p. 691.  
Holdback. W. T. Herndon. No. 929,218; July 27; Sp. p. 5204; Gaz. vol. 144; p. 923.  
Holdback. M. D. Schaller. No. 940,620; Nov. 16; Sp. p. 4812; Gaz. vol. 148; p. 802.  
Holdback, Adjustable. J. W. Ward. No. 908,914; Jan. 5; Sp. p. 995; Gaz. vol. 138; p. 159.  
Holdback, Adjustable. W. J. Thomas. No. 920,219; May 4; Sp. p. 257; Gaz. vol. 142; p. 41.

*Alphabetical list of inventions—Continued.*

- Holdback device. W. H. Thornburg. No. 926,519; June 29; Sp. p. 7130; Gaz. vol. 143; p. 1259.  
 Holdback-hook. I. D. Cady. No. 927,220; July 6; Sp. p. 1071; Gaz. vol. 144; p. 174.  
 Holder. *See* Bottle-holder; Box-lid holder.  
 Holder. I. Herzfelder. No. 936,777; Oct. 12; Sp. p. 2466; Gaz. vol. 147; p. 410.  
 Holder. G. Stocker. No. 940,086; Nov. 16; Sp. p. 3636; Gaz. vol. 148; p. 620.  
 Holder or support. F. F. Hespe and M. Larsen. No. 921,833; May 18; Sp. p. 3600; Gaz. vol. 142; p. 635.  
 Holding attachment. G. P. Schmidt. No. 936,671; Oct. 12; Sp. p. 2259; Gaz. vol. 147; p. 375.  
 Holding device. H. T. Epperson. No. 922,115; May 18; Sp. p. 4155; Gaz. vol. 142; p. 726.  
 Hollow-article mold. E. Kerr and J. Smith. No. 918,328; Apr. 13; Sp. p. 2772; Gaz. vol. 141; p. 491.  
 Hollow articles, Machine for forming. E. Bongardt. No. 915,331; Mar. 16; Sp. p. 3457; Gaz. vol. 140; p. 603.  
 Hollow bodies, Construction of. M. Woerner. No. 930,012; Aug. 3; Sp. p. 825; Gaz. vol. 145; p. 133.  
 Hollow bodies, Means for extruding. A. P. Hine. No. 941,365; Nov. 30; Sp. p. 6440; Gaz. vol. 148; p. 1096.  
 Hollow cast ware, Apparatus for forming patterns for. J. H. Danver and W. H. Lose. No. 925,307; June 15; Sp. p. 4669; Gaz. vol. 143; p. 797.  
 Hollow cast ware, Forming patterns for. J. H. Danver and W. H. Lose. No. 925,306; June 15; Sp. p. 4666; Gaz. vol. 143; p. 797.  
 Hollow objects, Device for the manufacture of. F. J. Goldkamp. No. 934,666; Sept. 21; Sp. p. 3406; Gaz. vol. 146; p. 594.  
 Holster. J. M. Beasley. No. 944,355; Dec. 28; Sp. p. 4979; Gaz. vol. 149; p. 877.  
 Honey-box section. G. W. Maxwell and J. J. Brewer. No. 929,616; July 27; Sp. p. 6019; Gaz. vol. 144; p. 1053.  
 Honey-extractor. J. F. Kropp. No. 914,290; Mar. 2; Sp. p. 1350; Gaz. vol. 140; p. 209.  
 Hoof-nippers. J. A. Ryden. No. 928,335; July 20; Sp. p. 3432; Gaz. vol. 144; p. 604.  
 Hoof-pad. O. G. Woolverton. No. 914,003; Mar. 2; Sp. p. 735; Gaz. vol. 140; p. 116.  
 Hoof-pad. W. Heathermon. No. 918,149; Apr. 13; Sp. p. 2413; Gaz. vol. 141; p. 432.  
 Hoof-pad. R. C. Stewart. No. 932,593; Aug. 31; Sp. p. 6272; Gaz. vol. 145; p. 1085.  
 Hoof-parer. P. Broadbooks. No. 943,382; Dec. 14; Sp. p. 2901; Gaz. vol. 149; p. 488.  
 Hoof-shears. G. B. De Arment. No. 908,969; Jan. 5; Sp. p. 1090; Gaz. vol. 138; p. 176.  
 Hoof-trimmer. J. R. Peifer. No. 912,161; Feb. 9; Sp. p. 2309; Gaz. vol. 139; p. 401.  
 Hoof-trimmer. G. M. Bates. No. 932,671; Aug. 31; Sp. p. 6449; Gaz. vol. 145; p. 1112.  
 Hook. *See* Bait-easting hook; Bill-hook; Brush-hook; Bucket-hook; Butt-hook; Cant-hook; Ceiling-hook; Chain-hook; Chandelier-hook; Clevis-hook; Closet and wardrobe hook; Clothes-hook; Clothes-line hook; Coat and hat hook; Corn-husking hook; Curtain-hook; Draft-hook; Fish-hook; Fish and animal catching hook; Fishing-hook; Gambrel-hook; Garment-hook; Gate-hook; Grab or draft hook; Hand-hook; Hat-hook; Hat and coat hook; Hay-hook; Hoisting-hook; Holdback-hook; Key-hook; Lacing-hook; Locker-hook; Locking-hook; Printer's hook; Pruning-hook; Register-hook; Shaft-work detachable hook; Snap-hook; Suspension-hook; Swivel-hook; Trace-hook; Trolling-hook; Watch-chain hook; Whiffletree-hook.  
 Hook. R. P. Standeford. No. 918,791; Apr. 20; Sp. p. 3791; Gaz. vol. 141; p. 673.  
 Hook. C. Saunders. No. 921,286; May 11; Sp. p. 2442; Gaz. vol. 142; p. 425.  
 Hook. A. K. Lovell. No. 921,719; May 18; Sp. p. 3351; Gaz. vol. 142; p. 597.  
 Hook. R. and V. Waterhouse. No. 926,156; June 29; Sp. p. 6430; Gaz. vol. 143; p. 1140.  
 Hook. A. Hauer. No. 926,697; June 29; Sp. p. 7477; Gaz. vol. 143; p. 1318.  
 Hook and eye. C. W. Breen. No. 908,733; Jan. 5; Sp. p. 645; Gaz. vol. 138; p. 101.  
 Hook and eye. W. M. Corthell. No. 909,554; Jan. 12; Sp. p. 2264; Gaz. vol. 138; p. 402.  
 Hook and eye. W. M. Corthell. No. 910,645; Jan. 26; Sp. p. 4553; Gaz. vol. 138; p. 828.  
 Hook and eye. J. Dohan and A. Waterman. No. 915,747; Mar. 23; Sp. p. 4336; Gaz. vol. 140; p. 771.  
 Hook and eye. J. F. Schoeppl. No. 928,775; July 6; Sp. p. 135; Gaz. vol. 144; p. 22.  
 Hook and eye. S. A. Cinnamon. No. 928,585; July 20; Sp. p. 3920; Gaz. vol. 144; p. 685.  
 Hook and eye. C. S. Lichtenstein. No. 934,195; Sept. 14; Sp. p. 2504; Gaz. vol. 146; p. 412.  
 Hook and eye. W. Ferris. No. 935,095; Sept. 28; Sp. p. 4282; Gaz. vol. 146; p. 765.  
 Hook-and-eye fastener. P. Mulock. No. 944,101; Dec. 21; Sp. p. 4436; Gaz. vol. 149; p. 765.  
 Hook and eye or collar supporter and stiffener. F. Bilharz. No. 926,539; June 29; Sp. p. 7163; Gaz. vol. 143; p. 1266.  
 Hook-fastener. V. E. Morse. No. 934,826; Sept. 21; Sp. p. 3724; Gaz. vol. 146; p. 647.  
 Hook-locking device. P. B. Wohlrab. No. 917,508; Apr. 6; Sp. p. 1076; Gaz. vol. 141; p. 188.  
 Hoop. *See* Cheese-hoop; Embroidery-hoop; Metal hoop; Metallic hoop; Rolling-hoop.  
 Hoop. H. B. Chamberlain. No. 910,114; Jan. 19; Sp. p. 3378; Gaz. vol. 138; p. 621.  
 Hoop. C. H. Keeshin. No. 923,187; June 1; Sp. p. 142; Gaz. vol. 143; p. 23.  
 Hoop-bending machine. E. E. Slick. No. 943,478; Dec. 14; Sp. p. 3102; Gaz. vol. 149; p. 522.  
 Hoop-driving machine, Vertical. E. F. Beugler. No. 944,356; Dec. 28; Sp. p. 4980; Gaz. vol. 149; p. 877.  
 Hoop-fastener. W. Mosher, I. A. Roche, and J. C. Foston. No. 922,022; May 18; Sp. p. 3983; Gaz. vol. 142; p. 697.  
 Hoop-keeper. L. A. Brigel. No. 929,912; Aug. 3; Sp. p. 624; Gaz. vol. 145; p. 98.  
 Hoop lug and connection. J. T. Hogan. No. 922,767; May 25; Sp. p. 5499; Gaz. vol. 142; p. 967.  
 Hoop-projecting device. C. M. Bartholomew. No. 912,059; Feb. 9; Sp. p. 2134; Gaz. vol. 139; p. 368.  
 Hoop-projecting device. C. M. and T. Bartholomew. No. 935,455; Sept. 28; Sp. p. 4979; Gaz. vol. 146; p. 880.  
 Hoop sizing and clamping device. L. Gibbs. No. 940,869; Nov. 23; Sp. p. 5375; Gaz. vol. 148; p. 910.  
 Hoops onto kegs, Machine for driving. E. F. Beugler. No. 923,759; June 1; Sp. p. 1419; Gaz. vol. 143; p. 220.  
 Hoops to casks, Device for applying. J. Gilmour. No. 920,731; May 4; Sp. p. 1304; Gaz. vol. 142; p. 210.  
 Hopper and feeding device. J. E. Perrault. No. 936,029; Oct. 5; Sp. p. 905; Gaz. vol. 147; p. 137.  
 Hopper and soil-pipe cleaner, Extension-. W. H. Cloak. No. 941,558; Nov. 30; Sp. p. 6849; Gaz. vol. 148; p. 1160.  
 Hoppie. W. S. Farrow. No. 914,257; Mar. 2; Sp. p. 1288; Gaz. vol. 140; p. 200.  
 Horizontal boiler. E. A. Beyl. No. 938,035; Oct. 26; Sp. p. 5077; Gaz. vol. 147; p. 874.  
 Horn. I. N. Benson. No. 925,418; June 15; Sp. p. 4861; Gaz. vol. 143; p. 831.  
 Horn. H. J. Kingsley. No. 936,910; Oct. 12; Sp. p. 2726; Gaz. vol. 147; p. 454.  
 Horn. A. G. Soistmann. No. 944,516; Dec. 28; Sp. p. 5356; Gaz. vol. 149; p. 933.  
 Horn, Amplifying-. C. Beecroft. No. 915,013; Mar. 9; Sp. p. 2783; Gaz. vol. 140; p. 471.  
 Horn, Amplifying-. J. H. B. Conger. No. 917,252; Apr. 6; Sp. p. 601; Gaz. vol. 141; p. 103.  
 Horn, Amplifying-. W. Tatelbaum. No. 931,161; Aug. 17; Sp. p. 3249; Gaz. vol. 145; p. 566.  
 Horn article. M. E. and H. E. McDonnell. No. 932,888; Aug. 31; Sp. p. 6886; Gaz. vol. 145; p. 1182.  
 Horn, Cam-operated. M. R. Hutchison. No. 923,049; May 25; Sp. p. 6082; Gaz. vol. 142; p. 1058.  
 Horn or alarm, Mechanically-actuated diaphragm. M. R. Hutchison. No. 923,122; May 25; Sp. p. 6248; Gaz. vol. 142; p. 1082.  
 Horn, &c., reaming and clamping device. J. B. Hall. No. 914,041; Mar. 2; Sp. p. 841; Gaz. vol. 140; p. 129.  
 Horn, Sound-augmenting. A. R. Cunniss. No. 921,676; May 18; Sp. p. 3278; Gaz. vol. 142; p. 585.  
 Horn-support. B. Mazanek. No. 938,009; Oct. 26; Sp. p. 5026; Gaz. vol. 147; p. 865.  
 Horns, Boring. E. Etienne and J. Dubé. No. 930,747; Aug. 10; Sp. p. 2312; Gaz. vol. 145; p. 401.  
 Horse and cattle water-bowl, Automatic. P. A. Cheevers. No. 909,282; Jan. 12; Sp. p. 1740; Gaz. vol. 138; p. 313.  
 Horse, &c., automatic fountain. G. C. Hart. No. 912,241; Feb. 9; Sp. p. 2464; Gaz. vol. 139; p. 424.  
 Horse-bit. F. M. Amsbury. No. 914,219; Mar. 2; Sp. p. 1199; Gaz. vol. 140; p. 188.  
 Horse-blanket. W. Gordon. No. 917,588; Apr. 6; Sp. p. 1226; Gaz. vol. 141; p. 214.  
 Horse-blanket. W. T. Lee. No. 919,038; Apr. 20; Sp. p. 4319; Gaz. vol. 141; p. 754.  
 Horse-blanket. J. W. Peirce. No. 938,787; Nov. 2; Sp. p. 722; Gaz. vol. 148; p. 116.  
 Horse-blanket. E. S. Burwell. No. 939,662; Nov. 9; Sp. p. 2695; Gaz. vol. 148; p. 444.  
 Horse-boot. M. Weiss. No. 933,508; Sept. 7; Sp. p. 1135; Gaz. vol. 146; p. 163.  
 Horse-boot. R. H. Smith. No. 941,819; Nov. 30; Sp. p. 7427; Gaz. vol. 148; p. 1248.  
 Horse-check. H. Rosenthal and F. C. Turner. No. 915,221; Mar. 16; Sp. p. 3249; Gaz. vol. 140; p. 568.  
 Horse-checking device. F. J. Thomas. No. 930,705; Aug. 10; Sp. p. 2224; Gaz. vol. 145; p. 387.  
 Horse-checking device. A. J. Hobbs and J. R. Jewell. No. 935,625; Sept. 28; Sp. p. 5343; Gaz. vol. 146; p. 937.  
 Horse-checking means. T. Todisco. No. 911,183; Feb. 2; Sp. p. 309; Gaz. vol. 139; p. 55.  
 Horse-cleaner. W. F. Mylchrest. No. 921,143; May 11; Sp. p. 2138; Gaz. vol. 142; p. 376.  
 Horse-collars, Machine for stuffing. L. J. Powers. No. 915,885; Mar. 23; Sp. p. 4588; Gaz. vol. 140; p. 814.  
 Horse-controlling device. L. E. v. Czillingger. No. 925,873; June 22; Sp. p. 5847; Gaz. vol. 143; p. 1011.  
 Horse-cover. J. Tilden. No. 918,796; Apr. 20; Sp. p. 3800; Gaz. vol. 141; p. 674.  
 Horse-cover. J. Blair. No. 921,580; May 11; Sp. p. 3035; Gaz. vol. 142; p. 521.  
 Horse-detacher. M. S. January. No. 909,420; Jan. 12; Sp. p. 2002; Gaz. vol. 138; p. 356.  
 Horse-detacher. E. E. Sanders. No. 912,032; Feb. 9; Sp. p. 2063; Gaz. vol. 139; p. 359.  
 Horse-detacher. J. S. Williams. No. 915,006; Mar. 9; Sp. p. 2775; Gaz. vol. 140; p. 469.  
 Horse-detacher. G. W. Barnett. No. 917,523; Apr. 6; Sp. p. 1110; Gaz. vol. 141; p. 194.



*Alphabetical list of inventions—Continued.*

- Horse-detacher. J. W. Hughes. No. 917,766; Apr. 13; Sp. p. 1618; Gaz. vol. 141; p. 301.  
Horse-detacher. J. G. Miller. No. 922,797; May 25; Sp. p. 5558; Gaz. vol. 142; p. 977.  
Horse-detacher. J. A. Borland and L. Benack. No. 928,843; July 20; Sp. p. 4424; Gaz. vol. 144; p. 771.  
Horse-detacher. A. Nakraschofsky and M. Leonhardt. No. 929,975; Aug. 3; Sp. p. 745; Gaz. vol. 145; p. 120.  
Horse-detacher. W. J. S. Ritscher. No. 939,745; Nov. 9; Sp. p. 2862; Gaz. vol. 148; p. 472.  
Horse-detacher. H. J. Williamson. No. 944,302; Dec. 28; Sp. p. 4868; Gaz. vol. 149; p. 858.  
Horse-detaching device. J. F. Williams. No. 909,044; Jan. 5; Sp. p. 1246; Gaz. vol. 138; p. 200.  
Horse-detaching device. M. F. Sadler. No. 922,518; May 25; Sp. p. 4979; Gaz. vol. 142; p. 886.  
Horse-detaching device. N. M. Hollendeck. No. 934,171; Sept. 14; Sp. p. 2458; Gaz. vol. 146; p. 404.  
Horse-feeding device. E. M. Rand. No. 913,305; Feb. 23; Sp. p. 4702; Gaz. vol. 139; p. 844.  
Horse-headlight attachment. P. A. Libby. No. 911,733; Feb. 9; Sp. p. 1409; Gaz. vol. 139; p. 262.  
Horse-hopple. W. Leech and C. L. De Ryder. No. 934,449; Sept. 21; Sp. p. 2969; Gaz. vol. 146; p. 521.  
Horse-meter, Meter for indicating. W. E. Burt. No. 942,130; Dec. 7; Sp. p. 220; Gaz. vol. 149; p. 34.  
Horse-rake. K. Hoshino. No. 928,517; July 20; Sp. p. 3775; Gaz. vol. 144; p. 663.  
Horse-releaser. M. Louviere and D. Broussard. No. 911,310; Feb. 2; Sp. p. 565; Gaz. vol. 139; p. 97.  
Horse-releaser. G. J. Weyh. No. 912,515; Feb. 16; Sp. p. 3083; Gaz. vol. 139; p. 555.  
Horse-releaser. J. A. McCallum and J. R. Bell. No. 916,579; Mar. 30; Sp. p. 5952; Gaz. vol. 140; p. 1068.  
Horse-releaser. J. J. Harper. No. 921,987; May 18; Sp. p. 3912; Gaz. vol. 142; p. 684.  
Horse-releaser. C. E. Beaver. No. 929,275; July 27; Sp. p. 5348; Gaz. vol. 144; p. 942.  
Horse-releaser. P. Thielens. No. 934,476; Sept. 21; Sp. p. 3036; Gaz. vol. 146; p. 530.  
Horse-releaser. J. A. Hockett. No. 936,128; Oct. 5; Sp. p. 1115; Gaz. vol. 147; p. 169.  
Horse-releaser. H. O. Stires and L. W. Smith. No. 938,721; Nov. 2; Sp. p. 590; Gaz. vol. 148; p. 93.  
Horse-releasing device. T. J. Williams. No. 916,816; Mar. 30; Sp. p. 6376; Gaz. vol. 140; p. 1140.  
Horse safety device. O. G. Joseph. No. 916,876; Mar. 30; Sp. p. 6489; Gaz. vol. 140; p. 1159.  
Horse-whipping device. C. E. Speck. No. 920,204; May 4; Sp. p. 230; Gaz. vol. 142; p. 36.  
Horses and cattle in case of fire, Device for releasing. G. W. Mayberry. No. 912,972; Feb. 16; Sp. p. 4023; Gaz. vol. 139; p. 706.  
Horses and other hoofed animals, Overshoe for. C. H. Bennett. No. 944,409; Dec. 28; Sp. p. 5106; Gaz. vol. 149; p. 896.  
Horses' feet, Composition for removing corns from. A. B. Fulton and T. Bergeron. No. 934,515; Sept. 21; Sp. p. 3112; Gaz. vol. 146; p. 542.  
Horses' hoofs for shoeing, Device for preparing. M. B. Haywood. No. 944,432; Dec. 28; Sp. p. 5149; Gaz. vol. 149; p. 903.  
Horses, Ice-creeper for. I. R. Whisler. No. 933,966; Oct. 12; Sp. p. 2832; Gaz. vol. 147; p. 472.  
Horses' knees, Dressing-retainer and shield for. J. Douglas. No. 942,624; Dec. 7; Sp. p. 1235; Gaz. vol. 149; p. 202.  
Horsehair and other cellulose products having resistance and elasticity, Manufacture of. E. Crumière. No. 911,868; Feb. 9; Sp. p. 1644; Gaz. vol. 139; p. 305.  
Horsehair-fabric-interweaving machine, Curled-. A. R. Billington. No. 916,096; Mar. 23; Sp. p. 4984; Gaz. vol. 140; p. 883.  
Horseshoe. J. P. Dunn and A. McKaig, Sr. No. 911,812; Feb. 9; Sp. p. 1546; Gaz. vol. 139; p. 287.  
Horseshoe. H. Paar. No. 912,258; Feb. 9; Sp. p. 2504; Gaz. vol. 139; p. 430.  
Horseshoe. E. K. Powell. No. 912,614; Feb. 16; Sp. p. 3296; Gaz. vol. 139; p. 591.  
Horseshoe. E. Moser and K. Schwaiger. No. 912,711; Feb. 16; Sp. p. 3498; Gaz. vol. 139; p. 624.  
Horseshoe. P. J. Brislin. No. 914,015; Mar. 2; Sp. p. 786; Gaz. vol. 140; p. 121.  
Horseshoe. C. Wernstrom. No. 914,903; Mar. 9; Sp. p. 2615; Gaz. vol. 140; p. 437.  
Horseshoe. A. F. Paulsen. No. 914,971; Mar. 9; Sp. p. 2724; Gaz. vol. 140; p. 459.  
Horseshoe. W. W. Lower. No. 916,739; Mar. 30; Sp. p. 6237; Gaz. vol. 140; p. 1116.  
Horseshoe. A. Schlegel. No. 918,094; Apr. 13; Sp. p. 2307; Gaz. vol. 141; p. 414.  
Horseshoe. C. L. Funk. No. 918,526; Apr. 20; Sp. p. 3184; Gaz. vol. 141; p. 584.  
Horseshoe. J. Kalm. No. 918,556; Apr. 20; Sp. p. 3256; Gaz. vol. 141; p. 593.  
Horseshoe. T. F. Sexton. No. 919,256; Apr. 20; Sp. p. 4909; Gaz. vol. 141; p. 823.  
Horseshoe. W. O'Brien. No. 919,294; Apr. 20; Sp. p. 4997; Gaz. vol. 141; p. 837.  
Horseshoe. C. W. Morrison. No. 920,366; May 4; Sp. p. 551; Gaz. vol. 142; p. 90.  
Horseshoe. J. H. Fawkes. No. 922,408; May 18; Sp. p. 4743; Gaz. vol. 142; p. 822.  
Horseshoe. G. Marshall. No. 923,060; May 25; Sp. p. 6115; Gaz. vol. 142; p. 1062.  
Horseshoe. M. T. Keenan. No. 924,241; June 8; Sp. p. 2513; Gaz. vol. 143; p. 409.  
Horseshoe. W. Knieper. No. 925,198; June 15; Sp. p. 4472; Gaz. vol. 143; p. 763.  
Horseshoe. A. Kerry. No. 927,731; July 13; Sp. p. 2136; Gaz. vol. 144; p. 370.  
Horseshoe. G. F. Fassett. No. 928,647; July 20; Sp. p. 4055; Gaz. vol. 144; p. 706.  
Horseshoe. C. W. Crannell. No. 929,395; July 27; Sp. p. 5606; Gaz. vol. 144; p. 983.  
Horseshoe. C. W. Crannell. No. 929,396; July 27; Sp. p. 5608; Gaz. vol. 144; p. 983.  
Horseshoe. C. F. Hyatt and E. W. Messmer. No. 929,950; Aug. 3; Sp. p. 695; Gaz. vol. 145; p. 111.  
Horseshoe. T. J. Levey. No. 930,550; Aug. 10; Sp. p. 1909; Gaz. vol. 145; p. 336.  
Horseshoe. C. T. Humes. No. 931,067; Aug. 17; Sp. p. 3353; Gaz. vol. 145; p. 534.  
Horseshoe. A. D. Cartwright. No. 937,568; Oct. 19; Sp. p. 4122; Gaz. vol. 147; p. 701.  
Horseshoe. J. H. Hershberger. No. 938,858; Nov. 2; Sp. p. 867; Gaz. vol. 148; p. 140.  
Horseshoe. P. von Stettina. No. 938,907; Nov. 2; Sp. p. 1009; Gaz. vol. 148; p. 159.  
Horseshoe. I. C. Patsch. No. 939,440; Nov. 9; Sp. p. 2214; Gaz. vol. 148; p. 368.  
Horseshoe. G. W. Cogswell and W. H. MacCrone. No. 939,473; Nov. 9; Sp. p. 2288; Gaz. vol. 148; p. 379.  
Horseshoe. G. Loeffler. No. 940,337; Nov. 16; Sp. p. 4201; Gaz. vol. 148; p. 708.  
Horseshoe. T. L. Randall. No. 942,012; Nov. 30; Sp. p. 7803; Gaz. vol. 148; p. 1314.  
Horseshoe. H. J. Filliez. No. 943,146; Dec. 14; Sp. p. 2415; Gaz. vol. 149; p. 410.  
Horseshoe and calk. S. Gordon. No. 912,667; Feb. 16; Sp. p. 3389; Gaz. vol. 139; p. 608.  
Horseshoe and pad, Combined. B. P. Gray. No. 925,631; June 22; Sp. p. 5302; Gaz. vol. 143; p. 932.  
Horseshoe antislipping attachment. A. A. Hill. No. 918,853; Apr. 20; Sp. p. 3942; Gaz. vol. 141; p. 693.  
Horseshoe, Auxiliary. J. W. Roper. No. 929,021; July 27; Sp. p. 4801; Gaz. vol. 144; p. 853.  
Horseshoe-bending machine. D. Freuler. No. 939,901; Nov. 9; Sp. p. 3186; Gaz. vol. 148; p. 526.  
Horseshoe-calk. A. S. Gay. No. 915,285; Mar. 16; Sp. p. 3367; Gaz. vol. 140; p. 583.  
Horseshoe-calk. J. P. Hoppesch. No. 923,177; June 1; Sp. p. 126; Gaz. vol. 143; p. 20.  
Horseshoe-calk. H. W. Schoen. No. 927,884; July 13; Sp. p. 2467; Gaz. vol. 144; p. 421.  
Horseshoe-calk. D. F. Baxter and A. S. Beattie. No. 928,927; July 27; Sp. p. 4609; Gaz. vol. 144; p. 827.  
Horseshoe-calk. J. O. Kvenvold. No. 930,296; Aug. 3; Sp. p. 1364; Gaz. vol. 145; p. 226.  
Horseshoe-calk. G. S. Meyer. No. 934,199; Sept. 14; Sp. p. 2509; Gaz. vol. 146; p. 413.  
Horseshoe-calk. J. E. Dolan. No. 936,988; Oct. 12; Sp. p. 2870; Gaz. vol. 147; p. 479.  
Horseshoe-calk. J. C. Schneider. No. 938,343; Oct. 26; Sp. p. 5754; Gaz. vol. 147; p. 973.  
Horseshoe-calk, Detachable. W. H. Cox. No. 944,666; Dec. 28; Sp. p. 5677; Gaz. vol. 149; p. 985.  
Horseshoe-calk former. E. N. Childs. No. 940,235; Nov. 16; Sp. p. 3954; Gaz. vol. 148; p. 673.  
Horseshoe-calk-plate. O. F. Peterson. No. 924,580; June 8; Sp. p. 3183; Gaz. vol. 143; p. 520.  
Horseshoe-calk, Removable. D. A. Shaffer. No. 924,586; June 8; Sp. p. 3192; Gaz. vol. 143; p. 522.  
Horseshoe-calk, Removable. G. S. Meyer. No. 934,198; Sept. 14; Sp. p. 2508; Gaz. vol. 146; p. 413.  
Horseshoe-calk, Removable. G. S. Meyer. No. 934,200; Sept. 14; Sp. p. 2510; Gaz. vol. 146; p. 414.  
Horseshoe-calk-sharpening machine. W. E. Everitt. No. 910,464; Jan. 19; Sp. p. 4152; Gaz. vol. 138; p. 745.  
Horseshoe-calks, Forming. C. and E. Ludvigsen. No. 937,314; Oct. 19; Sp. p. 3563; Gaz. vol. 147; p. 616.  
Horseshoe-calks, Machine for forming. A. T. McCreary. No. 937,461; Oct. 19; Sp. p. 3310; Gaz. vol. 147; p. 665.  
Horseshoe-calking machine. G. H. Smith. No. 916,797; Mar. 30; Sp. p. 6340; Gaz. vol. 140; p. 1133.  
Horseshoe, Cushioned. F. Steelman. No. 911,914; Feb. 9; Sp. p. 1736; Gaz. vol. 139; p. 321.  
Horseshoe, Emergency-. J. C. Belloff and A. Roth. No. 925,982; June 22; Sp. p. 6052; Gaz. vol. 143; p. 1046.  
Horseshoe hoof-pad. T. F. Flaherty. No. 918,032; Apr. 13; Sp. p. 2189; Gaz. vol. 141; p. 392.  
Horseshoe ice-creeper. W. L. Ogden. No. 917,481; Apr. 6; Sp. p. 1028; Gaz. vol. 141; p. 179.  
Horseshoe-making machine. R. S. Matteson. No. 942,370; Dec. 7; Sp. p. 711; Gaz. vol. 149; p. 115.  
Horseshoe-nail clench. G. B. Merzhimer. No. 929,967; Aug. 3; Sp. p. 728; Gaz. vol. 145; p. 116.  
Horseshoe, Nailless. J. Weill. No. 915,138; Mar. 16; Sp. p. 3083; Gaz. vol. 140; p. 541.  
Horseshoe, Nailless. H. D. Shaffer. No. 924,694; June 15; Sp. p. 3442; Gaz. vol. 143; p. 592.  
Horseshoe-pad. J. Dillon. No. 909,287; Jan. 12; Sp. p. 1746; Gaz. vol. 138; p. 314.  
Horseshoe-pad. M. M. Mills. No. 916,750; Mar. 30; Sp. p. 6252; Gaz. vol. 140; p. 1119.  
Horseshoe, Soft-tread. F. C. Limbocker. No. 912,583; Feb. 16; Sp. p. 3231; Gaz. vol. 139; p. 579.

*Alphabetical list of inventions—Continued.*

- Horseshoe, Soft-tread. M. Kane. No. 924,790; June 15; Sp. p. 3652; Gaz. vol. 143; p. 626.  
Horseshoe toe-clip-forming machine. F. H. W. Rodefeld. No. 918,700; Apr. 20; Sp. p. 3631; Gaz. vol. 141; p. 643.  
Horseshoe with removable calk. J. B. Olsen and J. C. Petersen. No. 934,624; Sept. 21; Sp. p. 3333; Gaz. vol. 146; p. 580.  
Horseshoe's stand. A. Biedermann. No. 916,413; Mar. 30; Sp. p. 5590; Gaz. vol. 140; p. 1013.  
Horse-tail-band. H. C. Unger. No. 934,638; Sept. 21; Sp. p. 3360; Gaz. vol. 146; p. 585.  
Horse-tail-holder. M. R. Jones. No. 934,669; Sept. 21; Sp. p. 3412; Gaz. vol. 146; p. 595.  
Horse-tail-tether. W. J. Mason. No. 940,937; Nov. 23; Sp. p. 5518; Gaz. vol. 148; p. 934.  
Hose and pipe coupling. E. Marek. No. 937,833; Oct. 26; Sp. p. 4659; Gaz. vol. 147; p. 806.  
Hose and pipe coupling. S. M. Johnson. No. 941,150; Nov. 23; Sp. p. 5976; Gaz. vol. 148; p. 1005.  
Hose and pipe coupling. Union. W. L. Canniff. No. 912,809; Feb. 16; Sp. p. 3736; Gaz. vol. 139; p. 657.  
Hose-clamp. P. E. Erickson. No. 912,097; Feb. 9; Sp. p. 2200; Gaz. vol. 139; p. 380.  
Hose-clamp. T. Harber. No. 912,955; Feb. 16; Sp. p. 3981; Gaz. vol. 139; p. 701.  
Hose-clamp. J. R. Clancy. No. 919,127; Apr. 20; Sp. p. 4480; Gaz. vol. 141; p. 782.  
Hose-clamp. B. L. Morrison. No. 925,013; June 15; Sp. p. 4119; Gaz. vol. 143; p. 701.  
Hose-clamp applicator. W. O. Stein. No. 919,973; Apr. 27; Sp. p. 6438; Gaz. vol. 141; p. 1100.  
Hose-cock. H. Vinette. No. 936,493; Oct. 12; Sp. p. 1902; Gaz. vol. 147; p. 314.  
Hose connection. I. S. Dunmyer. No. 927,336; July 6; Sp. p. 1277; Gaz. vol. 144; p. 211.  
Hose connection. H. Strom. No. 928,817; July 20; Sp. p. 4370; Gaz. vol. 144; p. 762.  
Hose connection for steam thaw-points. J. R. Mathews. No. 914,151; Mar. 2; Sp. p. 1054; Gaz. vol. 140; p. 167.  
Hose construction. C. M. C. Baird. No. 935,086; Sept. 23; Sp. p. 4256; Gaz. vol. 146; p. 761.  
Hose-coupling. C. E. Lepage. No. 909,003; Jan. 5; Sp. p. 1176; Gaz. vol. 138; p. 187.  
Hose-coupling. J. J. Antic. No. 909,131; Jan. 12; Sp. p. 1457; Gaz. vol. 138; p. 265.  
Hose-coupling. B. Morgan. No. 909,200; Jan. 12; Sp. p. 1587; Gaz. vol. 138; p. 285.  
Hose-coupling. T. B. Reid. No. 911,840; Feb. 9; Sp. p. 1592; Gaz. vol. 139; p. 295.  
Hose-coupling. C. H. Chapman. No. 913,259; Feb. 23; Sp. p. 4615; Gaz. vol. 139; p. 828.  
Hose-coupling. S. Medovárski. No. 915,985; Mar. 23; Sp. p. 4785; Gaz. vol. 140; p. 846.  
Hose-coupling. E. W. Whitmore. No. 916,076; Mar. 23; Sp. p. 4946; Gaz. vol. 140; p. 876.  
Hose-coupling. P. A. Walther. No. 917,204; Apr. 6; Sp. p. 498; Gaz. vol. 141; p. 87.  
Hose-coupling. J. H. Moore. No. 917,474; Apr. 6; Sp. p. 1018; Gaz. vol. 141; p. 177.  
Hose-coupling. R. M. Dixon. No. 918,514; Apr. 20; Sp. p. 3166; Gaz. vol. 141; p. 581.  
Hose-coupling. C. E. Loetzer. No. 919,444; Apr. 27; Sp. p. 5333; Gaz. vol. 141; p. 922.  
Hose-coupling. H. R. Mason. No. 919,743; Apr. 27; Sp. p. 5962; Gaz. vol. 141; p. 1024.  
Hose-coupling. W. E. Crook. No. 921,368; May 11; Sp. p. 2634; Gaz. vol. 142; p. 453.  
Hose-coupling. C. L. Friday. No. 921,691; May 18; Sp. p. 3303; Gaz. vol. 142; p. 587.  
Hose-coupling. R. S. MacEwan. No. 924,166; June 8; Sp. p. 2335; Gaz. vol. 143; p. 383.  
Hose-coupling. H. P. Magone. No. 925,713; June 22; Sp. p. 5488; Gaz. vol. 143; p. 957.  
Hose-coupling. E. W. Smith. No. 925,959; June 22; Sp. p. 6012; Gaz. vol. 143; p. 1038.  
Hose-coupling. E. Watkins and J. H. Miller. No. 927,388; July 6; Sp. p. 1369; Gaz. vol. 144; p. 228.  
Hose-coupling. M. G. Otis. No. 927,589; July 13; Sp. p. 1814; Gaz. vol. 144; p. 323.  
Hose-coupling. J. P. Baird. No. 928,237; July 20; Sp. p. 3191; Gaz. vol. 144; p. 569.  
Hose-coupling. W. J. Williamson. No. 929,067; July 27; Sp. p. 4892; Gaz. vol. 144; p. 873.  
Hose-coupling. C. C. Corlew. No. 929,561; July 27; Sp. p. 5891; Gaz. vol. 144; p. 1035.  
Hose-coupling. G. A. Anderson. No. 935,082; Sept. 28; Sp. p. 4248; Gaz. vol. 146; p. 759.  
Hose-coupling. J. F. Hinck. No. 935,984; Oct. 5; Sp. p. 819; Gaz. vol. 147; p. 122.  
Hose-coupling. N. M. Rosendahl. No. 936,566; Oct. 12; Sp. p. 2043; Gaz. vol. 147; p. 337.  
Hose-coupling. A. A. Hill. No. 936,627; Oct. 12; Sp. p. 2177; Gaz. vol. 147; p. 360.  
Hose-coupling. E. J. Hannold. No. 936,886; Oct. 12; Sp. p. 2378; Gaz. vol. 147; p. 446.  
Hose-coupling. A. J. Dolder. No. 937,364; Oct. 19; Sp. p. 3667; Gaz. vol. 147; p. 631.  
Hose-coupling. A. W. Abraham. No. 937,405; Oct. 19; Sp. p. 3779; Gaz. vol. 147; p. 645.  
Hose-coupling. H. Halstead and L. Niksch. No. 937,437; Oct. 19; Sp. p. 3850; Gaz. vol. 147; p. 656.  
Hose-coupling. F. Vlach. No. 938,095; Oct. 26; Sp. p. 5216; Gaz. vol. 147; p. 894.  
Hose-coupling. J. H. Towne. No. 938,183; Oct. 26; Sp. p. 5421; Gaz. vol. 147; p. 925.  
Hose-coupling. W. F. Koper. No. 939,036; Nov. 2; Sp. p. 1263; Gaz. vol. 148; p. 203.  
Hose-coupling. I. I. Rose. No. 939,096; Nov. 2; Sp. p. 1372; Gaz. vol. 148; p. 223.  
Hose-coupling. J. E. Ward. No. 939,195; Nov. 2; Sp. p. 1595; Gaz. vol. 148; p. 258.  
Hose-coupling. V. P. McVoy. No. 939,434; Nov. 9; Sp. p. 2200; Gaz. vol. 148; p. 366.  
Hose-coupling. V. P. McVoy. No. 939,435; Nov. 9; Sp. p. 2202; Gaz. vol. 148; p. 366.  
Hose-coupling. V. P. McVoy. No. 939,436; Nov. 9; Sp. p. 2205; Gaz. vol. 148; p. 366.  
Hose-coupling. V. P. McVoy. No. 939,437; Nov. 9; Sp. p. 2209; Gaz. vol. 148; p. 367.  
Hose-coupling. C. E. Juddins. No. 943,416; Dec. 14; Sp. p. 2962; Gaz. vol. 149; p. 500.  
Hose coupling. Air. E. L. Brown. No. 939,211; Nov. 9; Sp. p. 1638; Gaz. vol. 148; p. 289.  
Hose coupling. Air. F. W. Rock. No. 941,652; Nov. 30; Sp. p. 7052; Gaz. vol. 148; p. 1191.  
Hose-coupling and gasket therefor. J. E. Ward. No. 938,731; Nov. 2; Sp. p. 608; Gaz. vol. 148; p. 96.  
Hose-coupling and turn-plug. T. A. Arthur. No. 938,297; Oct. 26; Sp. p. 5636; Gaz. vol. 147; p. 964.  
Hose-coupling cap. G. A. Madison. No. 923,545; June 1; Sp. p. 953; Gaz. vol. 143; p. 148.  
Hose-coupling, Detachable. H. Beraud and E. J. Achée. No. 913,351; Feb. 23; Sp. p. 4797; Gaz. vol. 139; p. 860.  
Hose-coupling, Expansion. H. C. Bostian. No. 941,355; Nov. 30; Sp. p. 6416; Gaz. vol. 148; p. 1094.  
Hose-coupling, Gas. C. Sautter. No. 923,081; May 25; Sp. p. 6157; Gaz. vol. 142; p. 1068.  
Hose-coupling, Instantaneous. W. J. Casey. No. 935,587; Sept. 28; Sp. p. 5272; Gaz. vol. 146; p. 924.  
Hose-coupling, Train. A. H. McMasters. No. 939,070; Nov. 2; Sp. p. 1321; Gaz. vol. 148; p. 214.  
Hose, Flexible metallic. W. Schulz. No. 931,091; Aug. 17; Sp. p. 3092; Gaz. vol. 145; p. 542.  
Hose, High-pressure. T. B. Ford. No. 916,136; Mar. 23; Sp. p. 5056; Gaz. vol. 140; p. 896.  
Hose holder. Lawn and garden. J. R. Barrows. No. 916,255; Mar. 23; Sp. p. 5279; Gaz. vol. 140; p. 934.  
Hose-making machine. C. R. Backmann. No. 914,225; Mar. 2; Sp. p. 1215; Gaz. vol. 140; p. 190.  
Hose, Metallic. E. Witzemann. No. 910,104; Jan. 19; Sp. p. 3365; Gaz. vol. 138; p. 618.  
Hose-nozzle. F. R. Pendergrass. No. 915,694; Mar. 16; Sp. p. 4221; Gaz. vol. 140; p. 727.  
Hose-nozzle. E. Nelson. No. 927,376; July 6; Sp. p. 1345; Gaz. vol. 144; p. 223.  
Hose-nozzle. E. C. Delene. No. 927,837; July 13; Sp. p. 2367; Gaz. vol. 144; p. 406.  
Hose-nozzle, Garden. J. G. Kasjens. No. 933,464; Sept. 7; Sp. p. 980; Gaz. vol. 146; p. 148.  
Hose-nozzle holder, Adjustable and detachable fire. A. D. Cole. No. 929,392; July 27; Sp. p. 5602; Gaz. vol. 144; p. 982.  
Hose-nozzles, Portable holder for. C. R. Robinson. No. 929,019; July 27; Sp. p. 4797; Gaz. vol. 144; p. 857.  
Hose on mandrels, Machine for mounting. S. J. Sill. No. 910,735; Jan. 26; Sp. p. 4708; Gaz. vol. 138; p. 856.  
Hose or pipe coupling. C. E. Atkinson. No. 942,047; Dec. 7; Sp. p. 5; Gaz. vol. 149; p. 3.  
Hose-pipe. W. R. Calvert. No. 927,635; July 13; Sp. p. 1939; Gaz. vol. 144; p. 340.  
Hose-pipe coupling. J. C. Hooper and A. W. Bratt. No. 926,415; June 29; Sp. p. 6951; Gaz. vol. 143; p. 1224.  
Hose-pipe coupling end connection. E. D. Nelson and W. L. Brown. No. 922,805; May 25; Sp. p. 5574; Gaz. vol. 142; p. 979.  
Hose-protector. H. F. Marendaz. No. 913,903; Mar. 2; Sp. p. 503; Gaz. vol. 140; p. 81.  
Hose-rack. R. D. Wirt. No. 912,928; Feb. 16; Sp. p. 3934; Gaz. vol. 139; p. 692.  
Hose-rack. W. D. Doremus. No. 920,116; May 4; Sp. p. 60; Gaz. vol. 142; p. 7.  
Hose-rack. E. F. Fisher. No. 926,556; June 29; Sp. p. 7192; Gaz. vol. 143; p. 1271.  
Hose-rack. A. Jones. No. 927,410; July 6; Sp. p. 1417; Gaz. vol. 144; p. 235.  
Hose-rack. R. D. Wirt. No. 927,623; July 13; Sp. p. 1899; Gaz. vol. 144; p. 336.  
Hose-rack. R. D. Wirt. No. 927,624; July 13; Sp. p. 1902; Gaz. vol. 144; p. 336.  
Hose-rack. H. Gibbs. No. 933,069; Sept. 7; Sp. p. 64; Gaz. vol. 146; p. 11.  
Hose-rack. G. F. D. Trask. No. 941,410; Nov. 30; Sp. p. 6564; Gaz. vol. 148; p. 1113.  
Hose-rack, Inclosed. W. D. Allen. No. 933,947; Sept. 14; Sp. p. 2005; Gaz. vol. 146; p. 330.  
Hose-reel. H. W. Blaisdell and G. P. Baldwin. No. 923,320; June 1; Sp. p. 490; Gaz. vol. 143; p. 78.  
Hose-repairing plug. A. L. Monaghan. No. 908,876; Jan. 5; Sp. p. 919; Gaz. vol. 138; p. 146.  
Hose-shield. G. E. Burtcher. No. 921,079; May 11; Sp. p. 2016; Gaz. vol. 142; p. 355.  
Hose-support. J. W. Fitz Gerald. No. 936,438; Oct. 12; Sp. p. 1783; Gaz. vol. 147; p. 296.  
Hose-supporter. H. W. Richardson. No. 909,824; Jan. 12; Sp. p. 2797; Gaz. vol. 138; p. 492.  
Hose-supporter. F. F. Knothe. No. 913,294; Feb. 23; Sp. p. 4681; Gaz. vol. 139; p. 840.  
Hose-supporter. C. J. White. No. 913,998; Mar. 2; Sp. p. 722; Gaz. vol. 140; p. 114.



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- Hose-supporter. F. Hirsh. No. 919,168; Apr. 20; Sp. p. 4549; Gaz. vol. 141; p. 796.  
Hose-supporter. J. F. Stoldt. No. 925,963; June 22; Sp. p. 6020; Gaz. vol. 143; p. 1040.  
Hose-supporter. E. C. Scruggs. No. 940,285; Nov. 16; Sp. p. 4072; Gaz. vol. 148; p. 690.  
Hose supporter and protector. Combined. V. Robbins. No. 942,751; Dec. 7; Sp. p. 1485; Gaz. vol. 149; p. 244.  
Hose-supporter clasp. V. Guinzburg. No. 916,304; Mar. 23; Sp. p. 5360; Gaz. vol. 140; p. 951.  
Hose-supporter clasp. R. B. Tunncliffe. No. 918,398; Apr. 13; Sp. p. 2909; Gaz. vol. 141; p. 513.  
Hosiery. W. D. Butz. No. 915,551; Mar. 16; Sp. p. 3906; Gaz. vol. 140; p. 676.  
Hosiery, Looping-machine for. F. and J. F. Nelson. No. 928,787; July 20; Sp. p. 4311; Gaz. vol. 144; p. 752.  
Hosiery, Manufacture of fashioned. A. Gee. No. 924,605; June 8; Sp. p. 3245; Gaz. vol. 143; p. 529.  
Hosiery-turner. F. Pope. No. 939,312; Nov. 9; Sp. p. 1912; Gaz. vol. 148; p. 326.  
Hospital-cup. H. J. Potter. No. 909,020; Jan. 5; Sp. p. 1206; Gaz. vol. 138; p. 193.  
Hot-air engine. E. M. Fraser. No. 922,875; May 25; Sp. p. 5752; Gaz. vol. 142; p. 1003.  
Hot-air furnace. C. C. Knauss. No. 916,329; Mar. 23; Sp. p. 5403; Gaz. vol. 140; p. 960.  
Hot-air furnace. M. J. and H. B. Farquhar. No. 923,347; June 1; Sp. p. 551; Gaz. vol. 143; p. 79.  
Hot-air furnace. F. E. Nelson. No. 924,815; June 15; Sp. p. 3697; Gaz. vol. 143; p. 633.  
Hot-air furnace. C. A. Simonton. No. 927,608; July 13; Sp. p. 1872; Gaz. vol. 144; p. 331.  
Hot-air furnace. J. M. Keller. No. 928,259; July 20; Sp. p. 3253; Gaz. vol. 144; p. 577.  
Hot-air furnace. W. Miller. No. 942,655; Dec. 7; Sp. p. 1298; Gaz. vol. 149; p. 212.  
Hot-air furnace. C. A. Simonton. No. 943,710; Dec. 21; Sp. p. 3625; Gaz. vol. 149; p. 631.  
Hot-air furnace. C. A. Simonton. No. 943,711; Dec. 21; Sp. p. 3626; Gaz. vol. 149; p. 631.  
Hot-air furnace or heater. E. W. Anthony. No. 918,812; Apr. 20; Sp. p. 3842; Gaz. vol. 141; p. 679.  
Hot-air heater. R. L. Short. No. 919,966; Apr. 27; Sp. p. 6423; Gaz. vol. 141; p. 1097.  
Hot-air heater. R. L. Short. No. 933,128; Sept. 7; Sp. p. 189; Gaz. vol. 146; p. 32.  
Hot-air register. C. K. Clark. No. 914,791; Mar. 9; Sp. p. 2394; Gaz. vol. 140; p. 402.  
Hot-air register. J. L. Waterbury. No. 915,133; Mar. 16; Sp. p. 3077; Gaz. vol. 140; p. 539.  
Hot-air register. E. C. Fox. No. 936,440; Oct. 12; Sp. p. 1786; Gaz. vol. 147; p. 296.  
Hot-air wall-pipe. J. W. Zuch. No. 931,174; Aug. 17; Sp. p. 3271; Gaz. vol. 145; p. 570.  
Hot-water and steam boiler. H. L. Worden and H. O. Wurmser. No. 944,759; Dec. 28; Sp. p. 5895; Gaz. vol. 149; p. 1016.  
Hot-water and steam heater. G. R. Fassett and A. D. Macbeth. No. 934,903; Sept. 21; Sp. p. 3867; Gaz. vol. 146; p. 672.  
Hot-water apparatus. W. J. Litts. No. 915,452; Mar. 16; Sp. p. 3704; Gaz. vol. 140; p. 645.  
Hot-water boiler. J. E. Peck. No. 922,442; May 18; Sp. p. 4819; Gaz. vol. 142; p. 833.  
Hot-water boiler. E. Roggero. No. 929,496; July 27; Sp. p. 5780; Gaz. vol. 144; p. 1014.  
Hot-water heater. D. F. Greenawalt. No. 919,344; Apr. 27; Sp. p. 5119; Gaz. vol. 141; p. 888.  
Hot-water heater. J. Reesor and C. W. Steel. No. 920,390; May 4; Sp. p. 616; Gaz. vol. 142; p. 98.  
Hot-water heater. J. Mracek. No. 920,982; May 11; Sp. p. 1808; Gaz. vol. 142; p. 321.  
Hot-water heater. T. J. Shearman. No. 922,051; May 18; Sp. p. 4036; Gaz. vol. 142; p. 705.  
Hot-water heater. W. Hawks. No. 924,779; June 15; Sp. p. 3624; Gaz. vol. 143; p. 622.  
Hot-water heater. E. B. Sadtler. No. 932,908; Aug. 31; Sp. p. 6914; Gaz. vol. 145; p. 1188.  
Hot-water heater. W. H. Kogle. No. 935,117; Sept. 28; Sp. p. 4323; Gaz. vol. 146; p. 771.  
Hot-water heater. G. R. Gallagher. No. 937,209; Oct. 19; Sp. p. 3345; Gaz. vol. 147; p. 581.  
Hot-water house-heater. M. A. Wilcox. No. 941,597; Nov. 30; Sp. p. 6927; Gaz. vol. 148; p. 1172.  
Hot-water or ice bag. C. W. Meinecke. No. 919,614; Apr. 27; Sp. p. 5706; Gaz. vol. 141; p. 982.  
Hotbed. G. H. Barbour. No. 943,373; Dec. 14; Sp. p. 2882; Gaz. vol. 149; p. 485.  
House. See Imitation house; Malt-house; Portable house.  
House-leveling instrument. F. Sheppard. No. 921,470; May 11; Sp. p. 2833; Gaz. vol. 142; p. 486.  
Household utensil. S. D. Smith. No. 926,028; June 22; Sp. p. 6150; Gaz. vol. 143; p. 1061.  
Household utensil. E. C. Price. No. 928,537; July 20; Sp. p. 3818; Gaz. vol. 144; p. 669.  
Hub. M. S. Towson. No. 911,922; Feb. 9; Sp. p. 1747; Gaz. vol. 139; p. 323.  
Hub and spindle, Combined wheel. T. A. Barnett. No. 944,936; Dec. 28; Sp. p. 6254; Gaz. vol. 149; p. 1074.  
Hub-attaching device. R. T. Daniel. No. 915,831; Mar. 23; Sp. p. 4493; Gaz. vol. 140; p. 797.  
Hub-attaching device. R. G. Roullstone. No. 935,061; Sept. 28; Sp. p. 4198; Gaz. vol. 146; p. 752.  
Hub-attaching device. I. S. West. No. 938,804; Nov. 2; Sp. p. 763; Gaz. vol. 148; p. 123.  
Hub-attaching device. C. C. Swanson. No. 941,470; Nov. 30; Sp. p. 6681; Gaz. vol. 148; p. 1132.  
Hub-band. J. A. Slater. No. 921,294; May 11; Sp. p. 2456; Gaz. vol. 142; p. 427.  
Hub-boring machine. S. A. Taylor. No. 922,358; May 18; Sp. p. 4629; Gaz. vol. 142; p. 804.  
Hub clutch-gear, Vehicle-. B. Settergren. No. 922,965; May 25; Sp. p. 5920; Gaz. vol. 142; p. 1031.  
Hub, Coasting-. A. F. Rockwell. No. 932,328; Aug. 24; Sp. p. 5711; Gaz. vol. 145; p. 974.  
Hub-fastener. A. E. Roxberg. No. 920,657; May 4; Sp. p. 1143; Gaz. vol. 142; p. 185.  
Hub-fastener. T. J. Cuspitt. No. 938,220; Oct. 26; Sp. p. 5491; Gaz. vol. 147; p. 938.  
Hub for wheels, Resilient. A. E. J. Smith. No. 920,404; May 4; Sp. p. 636; Gaz. vol. 142; p. 102.  
Hub, Metal wheel-. J. W. Murray. No. 941,029; Nov. 23; Sp. p. 5714; Gaz. vol. 148; p. 964.  
Hub-odometer. H. P. C. Browne. No. 942,883; Dec. 14; Sp. p. 1806; Gaz. vol. 149; p. 319.  
Hub, Variable-speed coasting and braking. A. F. Rockwell. No. 942,520; Dec. 7; Sp. p. 1032; Gaz. vol. 149; p. 167.  
Hub, Vehicle-. W. R. Wilson. No. 923,919; June 8; Sp. p. 1819; Gaz. vol. 143; p. 303.  
Hub, Vehicle-. J. T. Watters. No. 928,413; July 20; Sp. p. 3567; Gaz. vol. 144; p. 631.  
Hub, Vehicle-wheel. T. L. McConaughy. No. 920,984; May 11; Sp. p. 1811; Gaz. vol. 142; p. 322.  
Hub, Wheel-. W. C. Thede. No. 921,912; May 18; Sp. p. 3750; Gaz. vol. 142; p. 660.  
Hub, Wheel-. G. H. Du Bois. No. 931,283; Aug. 17; Sp. p. 3528; Gaz. vol. 145; p. 609.  
Hull construction. J. Andrews. No. 926,635; June 29; Sp. p. 7351; Gaz. vol. 143; p. 1297.  
Huller. See Clover-huller; Pea-huller; Rice-huller.  
Huller and kraut-cutter, Combined. S. M. Stephens. No. 909,958; Jan. 19; Sp. p. 3089; Gaz. vol. 138; p. 571.  
Hulling machine, Rice-. F. G. Dieterich. No. 912,449; Feb. 16; Sp. p. 2937; Gaz. vol. 139; p. 533.  
Humidifier. A. R. Clarkson. No. 921,365; May 11; Sp. p. 2629; Gaz. vol. 142; p. 452.  
Humidifier. J. Kelly. No. 929,092; July 27; Sp. p. 4939; Gaz. vol. 144; p. 880.  
Humidifier. F. B. Comins. No. 931,845; Aug. 24; Sp. p. 4699; Gaz. vol. 145; p. 814.  
Humidifier. M. Tillotson. No. 939,351; Nov. 9; Sp. p. 1992; Gaz. vol. 148; p. 338.  
Humidifier. S. H. Bunnell. No. 941,187; Nov. 23; Sp. p. 6062; Gaz. vol. 148; p. 1017.  
Humidifier. F. B. Comins. No. 942,712; Dec. 7; Sp. p. 1406; Gaz. vol. 149; p. 230.  
Humidifier and air-moistening apparatus. S. W. Cramer. No. 908,962; Jan. 5; Sp. p. 1073; Gaz. vol. 138; p. 174.  
Humidifier and air-moistening apparatus. S. W. Cramer. No. 908,964; Jan. 5; Sp. p. 1081; Gaz. vol. 138; p. 175.  
Humidifying and air-conditioning apparatus. S. W. Cramer. No. 914,640; Mar. 9; Sp. p. 2062; Gaz. vol. 140; p. 351.  
Humidifying and air-moistening apparatus. S. W. Cramer. No. 908,963; Jan. 5; Sp. p. 1079; Gaz. vol. 138; p. 174.  
Hunting-knife. D. H. Holman. No. 924,070; June 8; Sp. p. 2107; Gaz. vol. 143; p. 351.  
Hunting-knife. F. Hoglund and C. Olsen. No. 927,352; July 6; Sp. p. 1306; Gaz. vol. 144; p. 216.  
Hunting-knife. G. P. Riggs. No. 939,091; Nov. 2; Sp. p. 1361; Gaz. vol. 148; p. 221.  
Husker. J. A. Ramsey. No. 932,901; Aug. 31; Sp. p. 6903; Gaz. vol. 145; p. 1186.  
Husking device. D. B. Stone. No. 929,173; July 27; Sp. p. 5114; Gaz. vol. 144; p. 909.  
Husking-machine. W. Clouser. No. 941,229; Nov. 23; Sp. p. 6149; Gaz. vol. 148; p. 1031.  
Husking-roll. A. Rosenthal. No. 927,814; July 13; Sp. p. 2312; Gaz. vol. 144; p. 399.  
Husking-roller. G. H. Gehring. No. 911,390; Feb. 2; Sp. p. 718; Gaz. vol. 139; p. 124.  
Husking-rollers. H. E. Purdy. No. 937,715; Oct. 19; Sp. p. 4407; Gaz. vol. 147; p. 748.  
Hydrant. J. Ewart. No. 915,422; Mar. 16; Sp. p. 3638; Gaz. vol. 140; p. 633.  
Hydrant. W. L. Selleck. No. 926,512; June 29; Sp. p. 7119; Gaz. vol. 143; p. 1256.  
Hydrant. G. W. Johnston. No. 928,663; July 20; Sp. p. 4084; Gaz. vol. 144; p. 711.  
Hydrant. L. M. Lancaster. No. 930,770; Aug. 10; Sp. p. 2360; Gaz. vol. 145; p. 408.  
Hydrant. J. D. Martin. No. 934,082; Sept. 14; Sp. p. 2273; Gaz. vol. 146; p. 373.  
Hydrant. W. K. Palmer. No. 935,857; Oct. 5; Sp. p. 554; Gaz. vol. 147; p. 79.  
Hydrant-casing. J. Day. No. 935,471; Sept. 28; Sp. p. 5007; Gaz. vol. 146; p. 884.  
Hydrant-head, Irrigating. N. S. Twiford. No. 935,566; Sept. 28; Sp. p. 5230; Gaz. vol. 146; p. 917.  
Hydrant, Hose-. C. C. Corlew. No. 924,041; June 8; Sp. p. 2053; Gaz. vol. 143; p. 341.  
Hydrant, Reel-operated. W. J. Clay. No. 933,290; Sept. 7; Sp. p. 590; Gaz. vol. 146; p. 91.  
Hydrant, stand-pipe, and the like. H. S. Lange. No. 938,064; Oct. 26; Sp. p. 5148; Gaz. vol. 147; p. 884.

*Alphabetical list of inventions—Continued.*

- Hydrant, Wall-. D. Hunsberger. No. 926,190; June 29; Sp. p. 6514; Gaz. vol. 143; p. 1152.  
 Hydraulic brake. F. H. Halstead. No. 944,429; Dec. 28; Sp. p. 5142; Gaz. vol. 149; p. 902.  
 Hydraulic governor. A. Dickerson. No. 928,854; July 20; Sp. p. 4441; Gaz. vol. 144; p. 775.  
 Hydraulic jack. N. Kohl and F. I. Joyce. No. 918,167; Apr. 13; Sp. p. 2445; Gaz. vol. 141; p. 438.  
 Hydraulic jack. E. A. Gathmann. No. 941,870; Nov. 30; Sp. p. 7535; Gaz. vol. 148; p. 1267.  
 Hydraulic machine for making casing. J. R. French. No. 937,990; Oct. 26; Sp. p. 4985; Gaz. vol. 147; p. 859.  
 Hydraulic motor. J. G. McDowell. No. 914,745; Mar. 9; Sp. p. 2306; Gaz. vol. 140; p. 386.  
 Hydraulic motor. H. Commandeur. No. 917,545; Apr. 6; Sp. p. 1149; Gaz. vol. 141; p. 201.  
 Hydraulic motor. C. Anderson and H. M. Ruddock. No. 934,128; Sept. 14; Sp. p. 2378; Gaz. vol. 146; p. 389.  
 Hydraulic motor. H. C. Schaefer. No. 937,649; Oct. 19; Sp. p. 4263; Gaz. vol. 147; p. 727.  
 Hydraulic motor. A. O. Lavoie. No. 943,943; Dec. 21; Sp. p. 4113; Gaz. vol. 149; p. 712.  
 Hydraulic motor. W. G. Stowell. No. 944,220; Dec. 21; Sp. p. 4677; Gaz. vol. 149; p. 802.  
 Hydraulic pipe. J. T. Langford. No. 928,233; July 13; Sp. p. 3157; Gaz. vol. 144; p. 538.  
 Hydraulic-piston engine. J. Krone. No. 932,033; Aug. 24; Sp. p. 5127; Gaz. vol. 145; p. 876.  
 Hydraulic-power apparatus. A. C. Ferguson. No. 931,402; Aug. 17; Sp. p. 3768; Gaz. vol. 145; p. 651.  
 Hydraulic press. R. J. Gibbon. No. 919,568; Apr. 27; Sp. p. 5614; Gaz. vol. 141; p. 965.  
 Hydraulic pressure, Apparatus for generating and applying. J. W. Nelson. No. 936,020; Oct. 5; Sp. p. 887; Gaz. vol. 147; p. 134.  
 Hydraulic separator. W. F. Smith. No. 941,663; Nov. 30; Sp. p. 7071; Gaz. vol. 148; p. 1195.  
 Hydrazin, Production of. F. Raschig. No. 910,858; Jan. 26; Sp. p. 4955; Gaz. vol. 138; p. 895.  
 Hydrocarbon-burner. C. R. Kittle and G. E. Harpham. No. 908,776; Jan. 5; Sp. p. 728; Gaz. vol. 138; p. 114.  
 Hydrocarbon-burner. P. M. Keller. No. 909,190; Jan. 12; Sp. p. 1572; Gaz. vol. 138; p. 283.  
 Hydrocarbon-burner. A. W. Straight. No. 912,506; Feb. 16; Sp. p. 3051; Gaz. vol. 139; p. 552.  
 Hydrocarbon-burner. J. Du Ross. No. 913,478; Feb. 23; Sp. p. 5047; Gaz. vol. 139; p. 902.  
 Hydrocarbon-burner. A. H. Sievert. No. 918,781; Apr. 20; Sp. p. 3777; Gaz. vol. 141; p. 710.  
 Hydrocarbon-burner. H. C. Ruggles. No. 918,916; Apr. 20; Sp. p. 4083; Gaz. vol. 141; p. 676.  
 Hydrocarbon-burner. T. Muehleisen. No. 922,018; May 18; Sp. p. 3976; Gaz. vol. 142; p. 695.  
 Hydrocarbon-burner. N. C. Stamps and J. Singer. No. 924,012; June 8; Sp. p. 2006; Gaz. vol. 143; p. 332.  
 Hydrocarbon-burner. R. J. Smyth and F. Allinger. No. 926,218; June 29; Sp. p. 6581; Gaz. vol. 143; p. 1162.  
 Hydrocarbon-burner. J. Stubbers. No. 926,300; June 29; Sp. p. 6730; Gaz. vol. 143; p. 1187.  
 Hydrocarbon-burner. H. Lemp. No. 927,416; July 6; Sp. p. 1430; Gaz. vol. 144; p. 237.  
 Hydrocarbon-burner. W. Scrimgeour, Jr. No. 928,337; July 20; Sp. p. 3434; Gaz. vol. 144; p. 605.  
 Hydrocarbon-burner. W. Scrimgeour. No. 928,886; July 20; Sp. p. 4518; Gaz. vol. 144; p. 787.  
 Hydrocarbon-burner. C. R. and J. R. Kittle. No. 930,193; Aug. 3; Sp. p. 1193; Gaz. vol. 145; p. 194.  
 Hydrocarbon-burner. G. E. Whitney. No. 933,684; Sept. 7; Sp. p. 1473; Gaz. vol. 146; p. 222.  
 Hydrocarbon-burner. G. A. Schoche. No. 933,853; Sept. 14; Sp. p. 1820; Gaz. vol. 146; p. 300.  
 Hydrocarbon-burner. J. Stubbers. No. 935,430; Sept. 28; Sp. p. 4930; Gaz. vol. 146; p. 871.  
 Hydrocarbon-burner. J. A. Hunt. No. 942,857; Dec. 7; Sp. p. 1719; Gaz. vol. 149; p. 278.  
 Hydrocarbon-burner. W. J. Best. No. 944,070; Dec. 21; Sp. p. 4378; Gaz. vol. 149; p. 754.  
 Hydrocarbon-burner and water-feed therefor. E. G. Mummery. No. 932,803; Aug. 31; Sp. p. 6733; Gaz. vol. 145; p. 1155.  
 Hydrocarbon-burners, Feed system for. J. N. Leach. No. 938,670; Nov. 2; Sp. p. 500; Gaz. vol. 148; p. 77.  
 Hydrocarbon-burning furnace, Metal-melting. G. W. McKee. No. 940,710; Nov. 23; Sp. p. 5025; Gaz. vol. 148; p. 858.  
 Hydrocarbon-engine. R. C. Lewis. No. 911,138; Feb. 2; Sp. p. 230; Gaz. vol. 139; p. 41.  
 Hydrocarbon-engine. J. M. Meyer. No. 915,103; Mar. 16; Sp. p. 2996; Gaz. vol. 140; p. 529.  
 Hydrocarbon-engine. J. Brons. No. 922,383; May 18; Sp. p. 4682; Gaz. vol. 142; p. 813.  
 Hydrocarbon-engine. F. L. Nichols. No. 927,001; July 6; Sp. p. 604; Gaz. vol. 144; p. 100.  
 Hydrocarbon-engine. E. Troike. No. 932,918; Aug. 31; Sp. p. 6930; Gaz. vol. 145; p. 191.  
 Hydrocarbon-furnace. J. Grow. No. 911,587; Feb. 9; Sp. p. 1098; Gaz. vol. 139; p. 214.  
 Hydrocarbon-mixer. W. C. Paul. No. 937,854; Oct. 26; Sp. p. 4703; Gaz. vol. 147; p. 814.  
 Hydrocarbon-motor. E. E. Winkley and F. V. Hart. No. 909,728; Jan. 12; Sp. p. 2614; Gaz. vol. 138; p. 462.  
 Hydrocarbon-motor. F. L. Nichols. No. 924,100; June 8; Sp. p. 2155; Gaz. vol. 143; p. 360.  
 Hydrocarbons into gas or vapor, Method of and apparatus for converting liquid. E. B. Benham. No. 920,903; May 11; Sp. p. 1657; Gaz. vol. 142; p. 296.  
 Hydrocarbons, Treatment of. E. A. L. Rouxville. No. 919,248; Apr. 20; Sp. p. 4891; Gaz. vol. 141; p. 821.  
 Hydrogen, Composition of matter for generating. G. F. Brindley. No. 909,536; Jan. 12; Sp. p. 2230; Gaz. vol. 138; p. 396.  
 Hydrogen-sulfid generator. E. L. Ross. No. 936,168; Oct. 5; Sp. p. 1187; Gaz. vol. 147; p. 181.  
 Hydromechanical press. A. Wilzin. No. 933,010; Aug. 31; Sp. p. 7106; Gaz. vol. 145; p. 1222.  
 Hydrometer and profile-recording machine. A. Mercieu. No. 911,146; Feb. 2; Sp. p. 245; Gaz. vol. 139; p. 43.  
 Hydropneumatic spring. H. Oudinot and C. Putois. No. 944,577; Dec. 28; Sp. p. 5501; Gaz. vol. 149; p. 954.  
 Hydropneumatic wheel. H. Oudinot and C. Putois. No. 923,881; June 8; Sp. p. 1750; Gaz. vol. 143; p. 291.  
 Hydrostatic indicator. G. Harding. No. 926,261; June 29; Sp. p. 6640; Gaz. vol. 143; p. 1172.  
 Hygienic heater. H. L. Stutts. No. 935,561; Sept. 28; Sp. p. 5218; Gaz. vol. 146; p. 916.  
 Hypodermic medication, Means for. B. G. Strong. No. 937,029; Oct. 12; Sp. p. 2967; Gaz. vol. 147; p. 493.  
 Hypodermic needle. G. R. Schimmel. No. 918,774; Apr. 20; Sp. p. 3767; Gaz. vol. 141; p. 668.  
 Ice and freezing machines, Absorption apparatus for. A. M. Kjaersgaard and C. S. J. Wiese. No. 934,545; Sept. 21; Sp. p. 3163; Gaz. vol. 146; p. 552.  
 Ice, Apparatus for the manufacture of. J. F. Rogers. No. 932,329; Aug. 24; Sp. p. 5713; Gaz. vol. 145; p. 975.  
 Ice-box dripping-pan. M. Glassberg. No. 931,751; Aug. 24; Sp. p. 4508; Gaz. vol. 145; p. 784.  
 Ice-cream can. L. H. Scheck. No. 939,865; Nov. 9; Sp. p. 3108; Gaz. vol. 148; p. 513.  
 Ice-cream-can attachment. C. Harbin. No. 919,348; Apr. 27; Sp. p. 5123; Gaz. vol. 141; p. 889.  
 Ice-cream-can attachment. W. A. Hutehison. No. 931,874; Aug. 24; Sp. p. 4761; Gaz. vol. 145; p. 823.  
 Ice-cream-cone holder. W. H. Haight. No. 943,070; Dec. 14; Sp. p. 2265; Gaz. vol. 149; p. 384.  
 Ice-cream-containing cabinet and soda-fountain. W. Buttler. No. 930,528; Aug. 10; Sp. p. 1868; Gaz. vol. 145; p. 330.  
 Ice-cream-containing cabinet and soda-fountain. W. Buttler. No. 930,529; Aug. 10; Sp. p. 1871; Gaz. vol. 145; p. 330.  
 Ice-cream dipper. F. Benjamin. No. 925,275; June 15; Sp. p. 4607; Gaz. vol. 143; p. 787.  
 Ice-cream freezer. J. R. Fitzhugh. No. 910,522; Jan. 26; Sp. p. 4285; Gaz. vol. 138; p. 787.  
 Ice-cream freezer. H. Vielt. No. 911,348; Feb. 2; Sp. p. 635; Gaz. vol. 139; p. 109.  
 Ice-cream freezer. T. M. Belknap. No. 912,787; Feb. 16; Sp. p. 3697; Gaz. vol. 139; p. 650.  
 Ice-cream freezer. J. C. Miller. No. 915,689; Mar. 16; Sp. p. 4208; Gaz. vol. 140; p. 725.  
 Ice-cream freezer. F. E. Whitney. No. 916,237; Mar. 23; Sp. p. 5254; Gaz. vol. 140; p. 929.  
 Ice-cream freezer. A. G. Hoefer and K. W. Schantz. No. 921,837; May 18; Sp. p. 3608; Gaz. vol. 142; p. 636.  
 Ice-cream freezer. F. Tyson. No. 923,609; June 1; Sp. p. 1120; Gaz. vol. 143; p. 171.  
 Ice-cream freezer. R. D. Moon. No. 924,917; June 15; Sp. p. 3911; Gaz. vol. 143; p. 667.  
 Ice-cream freezer. F. P. Burr. No. 926,639; June 29; Sp. p. 7358; Gaz. vol. 143; p. 1298.  
 Ice-cream freezer. B. A. Casmere. No. 930,530; Aug. 10; Sp. p. 1873; Gaz. vol. 145; p. 330.  
 Ice-cream freezer. H. Vielt. No. 936,060; Oct. 5; Sp. p. 977; Gaz. vol. 147; p. 147.  
 Ice-cream freezer. W. S. Thomson and L. H. Schmitt. No. 936,384; Oct. 12; Sp. p. 1639; Gaz. vol. 147; p. 278.  
 Ice-cream freezer. A. E. Hopley. No. 942,260; Dec. 7; Sp. p. 496; Gaz. vol. 149; p. 77.  
 Ice-cream freezer, Continuous. H. J. Gerner. No. 935,490; Sept. 28; Sp. p. 5036; Gaz. vol. 146; p. 890.  
 Ice-cream machinery. R. R. Row. No. 941,172; Nov. 23; Sp. p. 6024; Gaz. vol. 148; p. 1012.  
 Ice-cream, Manufacturing. T. L. Valerius. No. 916,067; Mar. 23; Sp. p. 4930; Gaz. vol. 140; p. 874.  
 Ice-cream mold. T. Cohn. No. 909,550; Jan. 12; Sp. p. 2254; Gaz. vol. 138; p. 400.  
 Ice-cream-mold gaging attachment. J. A. Aubry. No. 938,628; Nov. 2; Sp. p. 413; Gaz. vol. 148; p. 62.  
 Ice-cream scraper. D. H. Mosteller. No. 916,353; Mar. 23; Sp. p. 5455; Gaz. vol. 140; p. 968.  
 Ice-creper. E. W. Fletcher. No. 915,758; Mar. 23; Sp. p. 4361; Gaz. vol. 140; p. 775.  
 Ice-creper. J. Kinsel. No. 917,877; Apr. 13; Sp. p. 1844; Gaz. vol. 141; p. 336.  
 Ice-creper. S. Kossier. No. 935,998; Oct. 5; Sp. p. 848; Gaz. vol. 147; p. 127.  
 Ice-creper for horseshoes. G. H. Echols. No. 940,381; Nov. 16; Sp. p. 4322; Gaz. vol. 148; p. 724.  
 Ice-cutting machine. E. M. Card. No. 909,059; Jan. 5; Sp. p. 1274; Gaz. vol. 138; p. 205.  
 Ice-cutting machine. W. C. F. Michel. No. 920,166; May 4; Sp. p. 141; Gaz. vol. 142; p. 22.  
 Ice-cutting machine. L. M. Macy. No. 926,666; June 29; Sp. p. 7414; Gaz. vol. 143; p. 1307.  
 Ice-cutting machine. J. J. Tobin. No. 932,729; Aug. 31; Sp. p. 6568; Gaz. vol. 145; p. 1131.  
 Ice-cutting machine. A. J. Offord. No. 935,127; Sept. 28; Sp. p. 4337; Gaz. vol. 146; p. 774.



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- Ice-cutting machine. I. G. Gillespie. No. 942,898; Dec. 14; Sp. p. 1842; Gaz. vol. 149; p. 325.  
 Ice, Device for cutting plate-. R. H. Kirk. No. 936,544; Oct. 12; Sp. p. 2003; Gaz. vol. 147; p. 330.  
 Ice-edger. O. W. Robins. No. 935,690; Oct. 5; Sp. p. 144; Gaz. vol. 147; p. 24.  
 Ice harvesting and cutting apparatus, Plate-. D. J. Havenstrite. No. 940,013; Nov. 16; Sp. p. 3440; Gaz. vol. 148; p. 594.  
 Ice in cans, Apparatus for making clear. F. A. Rider. No. 935,928; Oct. 5; Sp. p. 702; Gaz. vol. 147; p. 103.  
 Ice-machine. J. C. McCall. No. 912,873; Feb. 16; Sp. p. 3833; Gaz. vol. 139; p. 675.  
 Ice-machine cut-off device. R. Whitaker. No. 936,065; Oct. 5; Sp. p. 986; Gaz. vol. 147; p. 148.  
 Ice-machine press. D. L. Holden. (Reissue.) No. 12,999; July 27; Sp. p. 6098; Gaz. vol. 144; p. 1067.  
 Ice-machine, Vertical. D. L. Holden. (Reissue.) No. 13,000; July 27; Sp. p. 6100; Gaz. vol. 144; p. 1068.  
 Ice-machines, Freezing-cylinder for. D. L. Holden. (Reissue.) No. 13,002; Aug. 3; Sp. p. 1433; Gaz. vol. 145; p. 238.  
 Ice making and harvesting apparatus. R. H. Kirk. No. 934,544; Sept. 21; Sp. p. 3161; Gaz. vol. 146; p. 551.  
 Ice making and harvesting apparatus, Plate-. C. D. Havenstrite. No. 934,524; Sept. 21; Sp. p. 3124; Gaz. vol. 146; p. 545.  
 Ice making and harvesting apparatus, Plate-. D. J. Havenstrite. No. 936,452; Oct. 12; Sp. p. 1804; Gaz. vol. 147; p. 300.  
 Ice, Making and harvesting plate-. D. J. Havenstrite. No. 911,238; Feb. 2; Sp. p. 431; Gaz. vol. 139; p. 74.  
 Ice-making apparatus. D. J. Havenstrite. No. 938,853; Nov. 2; Sp. p. 859; Gaz. vol. 148; p. 139.  
 Ice-making apparatus. D. J. Havenstrite. No. 941,414; Nov. 30; Sp. p. 6570; Gaz. vol. 148; p. 1114.  
 Ice-making apparatus, Artificial-. O. H. Jewell. No. 934,732; Sept. 21; Sp. p. 3536; Gaz. vol. 146; p. 616.  
 Ice-making apparatus, Can-. C. D. Havenstrite. No. 943,226; Dec. 14; Sp. p. 2563; Gaz. vol. 149; p. 435.  
 Ice-making appliance. C. C. Madson. No. 938,259; Oct. 26; Sp. p. 5566; Gaz. vol. 147; p. 951.  
 Ice, Making artificial. O. H. Jewell. No. 934,972; Sept. 21; Sp. p. 4012; Gaz. vol. 146; p. 698.  
 Ice-making machine. T. H. Ray. No. 923,298; June 1; Sp. p. 441; Gaz. vol. 143; p. 62.  
 Ice, Manufacture of artificial. R. J. Berryman. No. 936,977; Oct. 12; Sp. p. 2853; Gaz. vol. 147; p. 476.  
 Ice, Manufacturing and harvesting. R. J. Berryman. No. 936,978; Oct. 12; Sp. p. 2855; Gaz. vol. 147; p. 476.  
 Ice, Manufacturing and harvesting. R. J. Berryman. No. 936,979; Oct. 12; Sp. p. 2856; Gaz. vol. 147; p. 477.  
 Ice-manufacturing apparatus. A. C. Bishop. No. 920,248; May 4; Sp. p. 327; Gaz. vol. 142; p. 51.  
 Ice-pick. M. H. Mann. No. 926,346; June 29; Sp. p. 6829; Gaz. vol. 143; p. 1202.  
 Ice-sawing machine. J. H. Fisch and J. C. Babst. No. 929,846; Aug. 3; Sp. p. 481; Gaz. vol. 145; p. 76.  
 Ice-sawing machine. A. L. Stauffer. No. 935,866; Oct. 5; Sp. p. 572; Gaz. vol. 147; p. 83.  
 Ice-sawing rig. W. F. Smith. No. 932,591; Aug. 31; Sp. p. 6270; Gaz. vol. 145; p. 1085.  
 Ice-scraper. F. Evans. No. 920,446; May 4; Sp. p. 723; Gaz. vol. 142; p. 115.  
 Ice-shaping machine. I. Boyd. No. 934,135; Sept. 14; Sp. p. 2392; Gaz. vol. 146; p. 392.  
 Ice-shaver. A. M. Preston. No. 933,488; Sept. 7; Sp. p. 1089; Gaz. vol. 146; p. 156.  
 Ice-shaving device. R. Nielsen. No. 918,893; Apr. 20; Sp. p. 4031; Gaz. vol. 141; p. 707.  
 Ice-shaving machine. G. S. Blakeslee. No. 933,154; Sept. 7; Sp. p. 238; Gaz. vol. 146; p. 41.  
 Ice-tongs. G. P. Yeakle. No. 922,376; May 18; Sp. p. 4673; Gaz. vol. 142; p. 811.  
 Identification device. J. Walsh. No. 919,983; Apr. 27; Sp. p. 6455; Gaz. vol. 141; p. 1103.  
 Igniter. J. H. and J. B. Mantion and A. W. Stanley. No. 914,964; Mar. 9; Sp. p. 2712; Gaz. vol. 140; p. 456.  
 Igniter. G. W. Sage. No. 932,332; Aug. 24; Sp. p. 5718; Gaz. vol. 145; p. 976.  
 Igniter device, Electric. L. Baskin. No. 927,704; July 13; Sp. p. 2089; Gaz. vol. 144; p. 362.  
 Igniter, Electromagnetic. C. S. Beardsley. No. 925,742; June 22; Sp. p. 5546; Gaz. vol. 143; p. 967.  
 Igniter-timing device. J. G. Heaslet. No. 922,764; May 25; Sp. p. 5494; Gaz. vol. 142; p. 906.  
 Igniters or sparkers, Timer for. H. Rose. No. 936,564; Oct. 12; Sp. p. 2040; Gaz. vol. 147; p. 133.  
 Igniting apparatus, Catalytic. G. Salomonsohn. No. 924,835; June 15; Sp. p. 3741; Gaz. vol. 143; p. 640.  
 Igniting device, Electric. J. A. and B. A. Jeffery. No. 942,646; Dec. 7; Sp. p. 1284; Gaz. vol. 149; p. 209.  
 Ignition apparatus. G. Hanquet. No. 937,522; Oct. 19; Sp. p. 4034; Gaz. vol. 147; p. 686.  
 Ignition apparatus, Electrical. T. Hubert. No. 926,654; June 29; Sp. p. 7392; Gaz. vol. 143; p. 1304.  
 Ignition device. E. M. Benford. No. 908,835; Jan. 5; Sp. p. 843; Gaz. vol. 138; p. 132.  
 Ignition device, Electric. T. Hubert. No. 926,330; June 29; Sp. p. 6798; Gaz. vol. 143; p. 1196.  
 Ignition device, Electric. T. Hubert. No. 926,698; June 29; Sp. p. 7478; Gaz. vol. 143; p. 1318.  
 Ignition-regulator, Automatic. E. D. Waldron. No. 924,119; June 8; Sp. p. 2198; Gaz. vol. 143; p. 366.  
 Ignition systems, Induction-coil for. B. L. Lawton. No. 928,204; July 13; Sp. p. 3104; Gaz. vol. 144; p. 528.  
 Ignition-timer. L. B. Shivers. No. 911,527; Feb. 2; Sp. p. 962; Gaz. vol. 139; p. 167.  
 Ignition-timer. C. Sintz. No. 912,966; Feb. 16; Sp. p. 3892; Gaz. vol. 139; p. 686.  
 Ignition-timers, Safety-adjuster for. B. N. Davis. No. 921,958; May 18; Sp. p. 3848; Gaz. vol. 142; p. 674.  
 Illuminating-body. O. Mannesmann. No. 937,161; Oct. 19; Sp. p. 3249; Gaz. vol. 147; p. 567.  
 Illuminating device. A. W. Beutell. (Reissue.) No. 12,907; Jan. 5; Sp. p. 1448; Gaz. vol. 138; p. 231.  
 Illuminating device. C. A. Robinson. No. 917,137; Apr. 6; Sp. p. 371; Gaz. vol. 141; p. 64.  
 Illuminating device. W. N. McComb. No. 926,956; July 6; Sp. p. 523; Gaz. vol. 144; p. 85.  
 Illuminating device and adjustable supporting means therefor. R. M. Jackson. No. 910,066; Jan. 19; Sp. p. 3288; Gaz. vol. 138; p. 606.  
 Illuminating system. H. Siedentopf. No. 929,795; Aug. 3; Sp. p. 347; Gaz. vol. 145; p. 58.  
 Illumination. S. H. Metcalf. No. 931,784; Aug. 24; Sp. p. 4583; Gaz. vol. 145; p. 795.  
 Illuminator. V. R. Lansingh. No. 915,056; Mar. 16; Sp. p. 2866; Gaz. vol. 140; p. 486.  
 Illuminator. H. L. De Zeng. No. 917,021; Apr. 6; Sp. p. 122; Gaz. vol. 141; p. 24.  
 Imitation house. F. A. Stecher. No. 910,240; Jan. 19; Sp. p. 3666; Gaz. vol. 138; p. 666.  
 Impalement-trap. O. J. Merritt. No. 926,275; June 29; Sp. p. 6684; Gaz. vol. 143; p. 1179.  
 Implement-clamp. S. C. Lawlor. No. 916,338; Mar. 23; Sp. p. 5422; Gaz. vol. 140; p. 963.  
 Implement-frame. A. G. Dewey. No. 935,144; Sept. 28; Sp. p. 4372; Gaz. vol. 146; p. 780.  
 Implement-handle, Auxiliary. C. P. Paulsen. No. 923,994; June 8; Sp. p. 1973; Gaz. vol. 143; p. 327.  
 Implement-holder. S. C. Lawlor. No. 936,460; Oct. 12; Sp. p. 1819; Gaz. vol. 147; p. 303.  
 Impression apparatus. L. Huffman. No. 938,381; Oct. 26; Sp. p. 5848; Gaz. vol. 147; p. 993.  
 Imprint or shoe stamping machine. H. J. Holland. No. 924,990; June 15; Sp. p. 4072; Gaz. vol. 143; p. 693.  
 Incandescent-body-fastening device. E. Steil. No. 937,483; Oct. 19; Sp. p. 3955; Gaz. vol. 147; p. 672.  
 Incandescent bulbs, Capping-machine for. T. J. Hetherington. No. 935,503; Sept. 28; Sp. p. 5065; Gaz. vol. 146; p. 895.  
 Incandescent burner, Inverted. W. and H. Anderson. No. 937,571; Oct. 19; Sp. p. 4127; Gaz. vol. 147; p. 702.  
 Incandescent furnace, Dome-shaped. F. Burger and H. M. Williams. No. 923,404; June 1; Sp. p. 668; Gaz. vol. 143; p. 98.  
 Incandescent mantles, Manufacturing. A. Müller. No. 927,374; July 6; Sp. p. 1341; Gaz. vol. 144; p. 223.  
 Incandescent mantles, Producing. G. Buhlmann. No. 928,580; July 20; Sp. p. 3911; Gaz. vol. 144; p. 683.  
 Incinerator. G. Allen. No. 912,521; Feb. 16; Sp. p. 3096; Gaz. vol. 139; p. 557.  
 Incubator. G. B. Hayner. No. 913,957; Mar. 2; Sp. p. 628; Gaz. vol. 140; p. 99.  
 Incubator. H. Brown. No. 914,236; Mar. 2; Sp. p. 1242; Gaz. vol. 140; p. 194.  
 Incubator. A. E. Cherry. No. 915,412; Mar. 16; Sp. p. 3617; Gaz. vol. 140; p. 630.  
 Incubator. V. C. Koons. No. 916,454; Mar. 30; Sp. p. 5676; Gaz. vol. 140; p. 1026.  
 Incubator. P. J. McCabe. No. 926,434; June 29; Sp. p. 6989; Gaz. vol. 143; p. 1231.  
 Incubator. H. H. Charles. No. 927,711; July 13; Sp. p. 2101; Gaz. vol. 144; p. 365.  
 Incubator. F. C. Perkins and C. Z. Davis. No. 931,142; Aug. 17; Sp. p. 3208; Gaz. vol. 145; p. 560.  
 Incubator. G. H. Boyd. No. 932,108; Aug. 24; Sp. p. 5285; Gaz. vol. 145; p. 901.  
 Incubator. J. L. Nix. No. 934,006; Sept. 14; Sp. p. 2113; Gaz. vol. 146; p. 349.  
 Incubator. F. S. Barzee. No. 934,652; Sept. 21; Sp. p. 3387; Gaz. vol. 146; p. 590.  
 Incubator. A. M. Shaul. No. 935,697; Oct. 5; Sp. p. 160; Gaz. vol. 147; p. 26.  
 Incubator. C. E. Adair. No. 938,200; Oct. 26; Sp. p. 5453; Gaz. vol. 147; p. 931.  
 Incubator. E. A. Maisch. No. 938,260; Oct. 26; Sp. p. 5567; Gaz. vol. 147; p. 951.  
 Incubator. A. Noble. No. 943,954; Dec. 21; Sp. p. 4130; Gaz. vol. 149; p. 716.  
 Incubator-alarm. P. S. Martin. No. 926,669; June 29; Sp. p. 7420; Gaz. vol. 143; p. 1308.  
 Incubator and brooder, Combined. A. A. and F. B. Skinner. No. 944,383; Dec. 28; Sp. p. 5037; Gaz. vol. 149; p. 886.  
 Incubator, Automatic heat-regulating. W. W. Wetherla. No. 938,190; Oct. 26; Sp. p. 5433; Gaz. vol. 147; p. 927.  
 Incubator electric alarm. C. L. Kulp. No. 936,914; Oct. 12; Sp. p. 2733; Gaz. vol. 147; p. 456.  
 Incubator-heaters, Extinguisher for. C. A. Cyphers. No. 932,448; Aug. 31; Sp. p. 5948; Gaz. vol. 145; p. 1036.  
 Incubator, Metallic. F. C. Perkins. No. 938,271; Oct. 26; Sp. p. 5587; Gaz. vol. 147; p. 955.  
 Incubator, Multiple-compartment. C. E. Adair. No. 934,986; Sept. 28; Sp. p. 4045; Gaz. vol. 146; p. 727.  
 Incubator-regulator. W. B. Porter. No. 934,754; Sept. 21; Sp. p. 3572; Gaz. vol. 146; p. 623.  
 Incubator-thermometer holder. C. A. Cyphers. No. 926,549; June 29; Sp. p. 7182; Gaz. vol. 143; p. 1269.  
 Incubators, Device for rotating eggs in. D. A. Callaway. No. 927,709; July 13; Sp. p. 2096; Gaz. vol. 144; p. 364.

*Alphabetical list of inventions—Continued.*

- Incubators, Hygrometer for. G. H. Lee. No. 934,409; Sept. 14; Sp. p. 2901; Gaz. vol. 146; p. 485.  
 Incubators, Thermometer-hanger for. G. H. Lee. No. 932,299; Aug. 24; Sp. p. 5654; Gaz. vol. 145; p. 965.  
 Index. L. L. Dennick. No. 914,556; Mar. 9; Sp. p. 1899; Gaz. vol. 140; p. 324.  
 Index. C. J. Bryant. No. 927,107; July 6; Sp. p. 861; Gaz. vol. 144; p. 138.  
 Index-box. B. L. Roberts. No. 927,754; July 13; Sp. p. 2186; Gaz. vol. 144; p. 379.  
 Index, Card-. F. C. Williams. No. 923,471; June 1; Sp. p. 804; Gaz. vol. 143; p. 120.  
 Index case, Card-. E. A. Yungel. No. 932,840; Aug. 31; Sp. p. 6795; Gaz. vol. 145; p. 1165.  
 Index-center, Multiple-spindle. E. P. Miller. No. 910,937; Jan. 26; Sp. p. 5106; Gaz. vol. 138; p. 920.  
 Index-compiling device. W. A. Antilotti. No. 936,287; Oct. 12; Sp. p. 1411; Gaz. vol. 147; p. 244.  
 Index for time-tables. H. M. and E. V. Crouse. No. 934,658; Sept. 21; Sp. p. 3396; Gaz. vol. 146; p. 592.  
 Index-guide, &c. J. H. Rand. No. 913,162; Feb. 23; Sp. p. 4404; Gaz. vol. 139; p. 796.  
 Index reference-file. F. E. Richardson. No. 915,887; Mar. 23; Sp. p. 4591; Gaz. vol. 140; p. 815.  
 Index-tab. C. J. Bryant. No. 925,154; June 15; Sp. p. 4385; Gaz. vol. 143; p. 748.  
 Indexing mechanism. B. M. W. Hanson. No. 921,983; May 18; Sp. p. 3901; Gaz. vol. 142; p. 682.  
 Indian club and dumb-bell, Combined. W. H. Burr. No. 937,225; Oct. 19; Sp. p. 3380; Gaz. vol. 147; p. 587.  
 Indicating and recording device. J. T. Whalen. No. 940,761; Nov. 23; Sp. p. 5142; Gaz. vol. 148; p. 875.  
 Indicating and recording device. F. A. Morgan. No. 940,888; Nov. 23; Sp. p. 5410; Gaz. vol. 148; p. 917.  
 Indicating-apparatus resetting mechanism. P. Richert. No. 916,371; Mar. 23; Sp. p. 5484; Gaz. vol. 140; p. 973.  
 Indicating mechanism. C. W. Canine. No. 927,636; July 13; Sp. p. 1940; Gaz. vol. 144; p. 340.  
 Indicator: See Angle-indicator; Azimuth-indicator; Car location-indicator; Car station or street indicator; Carriage-indicator; Cash-register indicator; Clock winding-indicator; Current-indicator; Electric indicator; Elevator-indicator; Engine-indicator; Engine, &c., indicator; Fare-indicator; File-indicator; Firearm hammer-indicator; Hydrostatic indicator; Lid-holder and indicator; Liquid-indicator; Liquid-level indicator; Location-indicator; Lock-indicator; Mail-box indicator; Mail-box-collection indicator; Piston-indicator; Position-indicator; Press-indicator; Pressure-indicator; Program-indicator; Railway-coach indicator; Railway-rail-joint indicator; Route-indicator; Slip-indicator; Space-indicator; Spark-indicator; Spark-plug indicator; Speed-indicator; Stain-indicator; Station-indicator; Station or street indicator; Street-indicator; Stress-indicator; Switch-indicator; Tank-indicator; Temperature-indicator; Test-indicator; Text-indicator; Train-indicator; Train-number indicator; Train-position indicator; Valve-indicator; Vehicle-indicator; Vessel-indicator; Winding-indicator.  
 Indicator. W. Schnitzspan. No. 917,495; Apr. 6; Sp. p. 1054; Gaz. vol. 141; p. 184.  
 Indicator. A. V. Ballin. No. 922,238; May 18; Sp. p. 4413; Gaz. vol. 142; p. 766.  
 Indicator. H. D. Flegel. No. 922,466; May 25; Sp. p. 4882; Gaz. vol. 142; p. 869.  
 Indicator. H. H. Shults. No. 926,026; June 22; Sp. p. 6146; Gaz. vol. 143; p. 1061.  
 Indicator. M. Arndt. No. 927,207; July 6; Sp. p. 1050; Gaz. vol. 144; p. 169.  
 Indicator. D. C. Evans and O. Q. Patterson. No. 930,279; Aug. 3; Sp. p. 1332; Gaz. vol. 145; p. 220.  
 Indicator. H. P. Quick. No. 931,484; Aug. 17; Sp. p. 3923; Gaz. vol. 145; p. 677.  
 Indicator. C. W. Snyder. No. 932,825; Aug. 31; Sp. p. 6772; Gaz. vol. 145; p. 1161.  
 Indicator. A. Sundh. No. 937,555; Oct. 19; Sp. p. 4102; Gaz. vol. 147; p. 697.  
 Indicator. W. Houghton. No. 939,422; Nov. 9; Sp. p. 2173; Gaz. vol. 148; p. 361.  
 Indicator. A. J. Border. No. 941,354; Nov. 30; Sp. p. 6412; Gaz. vol. 148; p. 1093.  
 Indicator. H. E. Golden. No. 941,872; Nov. 30; Sp. p. 7538; Gaz. vol. 148; p. 1268.  
 Indicator and advertiser. C. H. Townsend. No. 919,495; Apr. 27; Sp. p. 5478; Gaz. vol. 141; p. 940.  
 Indicator contact-maker. Helm-. F. W. Wood. No. 914,626; Mar. 9; Sp. p. 2037; Gaz. vol. 140; p. 347.  
 Indicator-coupling. L. B. Van Boven. No. 943,127; Dec. 14; Sp. p. 2374; Gaz. vol. 149; p. 403.  
 Indicator for hire or other vehicles, Automatic fare-. A. Seiman. No. 912,899; Feb. 16; Sp. p. 3875; Gaz. vol. 139; p. 683.  
 Indicator-lock. A. L. Andrus and E. E. Rause. No. 913,448; Feb. 23; Sp. p. 4998; Gaz. vol. 139; p. 893.  
 Indicator-lock. M. J. Ruddy. No. 923,554; June 1; Sp. p. 1063; Gaz. vol. 143; p. 162.  
 Indicator luminous substance. A. Jungaus. No. 911,401; Feb. 2; Sp. p. 737; Gaz. vol. 139; p. 127.  
 Indigo sulfid and making same, Brominated. E. Kraus. No. 920,156; May 4; Sp. p. 126; Gaz. vol. 142; p. 19.  
 Indigo-white and making same, Stable. R. Wimmer. No. 910,889; Jan. 26; Sp. p. 5024; Gaz. vol. 138; p. 905.  
 Indigos and making same, Highly-brominated. A. Schmidt. No. 916,031; Mar. 23; Sp. p. 4872; Gaz. vol. 140; p. 862.  
 Indigos and making same, Highly-brominated halogen. A. Schmidt, H. Rössner, and H. Balhorn. No. 918,920; Apr. 20; Sp. p. 4089; Gaz. vol. 141; p. 717.  
 Inductance winding, Variable-. M. Eastham. No. 916,541; Mar. 30; Sp. p. 5880; Gaz. vol. 140; p. 1055.  
 Induction-coil. A. K. Keller. No. 927,412; July 6; Sp. p. 1421; Gaz. vol. 144; p. 236.  
 Induction-coil. B. L. Lawton. No. 929,607; July 27; Sp. p. 6001; Gaz. vol. 144; p. 1051.  
 Induction-furnace. M. Unger. No. 941,435; Nov. 30; Sp. p. 6605; Gaz. vol. 148; p. 1119.  
 Induction-generator. E. F. W. Alexanderson. No. 920,809; May 4; Sp. p. 1453; Gaz. vol. 142; p. 235.  
 Induction-motor. J. B. Wiard. No. 917,224; Apr. 6; Sp. p. 539; Gaz. vol. 141; p. 94.  
 Induction-motor. E. Mattman. No. 917,471; Apr. 6; Sp. p. 1013; Gaz. vol. 141; p. 177.  
 Induction-motor. H. L. Bernhardt. No. 919,524; Apr. 27; Sp. p. 5527; Gaz. vol. 141; p. 949.  
 Induction-motor. S. R. Bergman. No. 919,527; Apr. 27; Sp. p. 5531; Gaz. vol. 141; p. 950.  
 Induction-motor. T. Abtmeier. No. 920,898; May 11; Sp. p. 1653; Gaz. vol. 142; p. 295.  
 Induction-motor. R. E. Heilmund. No. 931,302; Aug. 1; Sp. p. 3566; Gaz. vol. 145; p. 615.  
 Induction-motor. E. Mattman. No. 932,625; Aug. 31; Sp. p. 6354; Gaz. vol. 145; p. 1096.  
 Induction-motor. S. R. Bergman. No. 936,292; Oct. 12; Sp. p. 1420; Gaz. vol. 147; p. 247.  
 Induction-motor. C. Robinson. No. 936,360; Oct. 12; Sp. p. 1571; Gaz. vol. 147; p. 269.  
 Induction motor and generator. R. D. Mershon. No. 911,147; Feb. 2; Sp. p. 247; Gaz. vol. 139; p. 44.  
 Inductive disturbances, Neutralizing. J. B. Taylor. No. 920,097; Apr. 27; Sp. p. 6719; Gaz. vol. 141; p. 1140.  
 Inductive disturbances, Nullifying. W. E. Athearn. No. 940,654; Nov. 23; Sp. p. 4597; Gaz. vol. 148; p. 839.  
 Inductive disturbances, System for nullifying. J. A. Barrett. No. 940,658; Nov. 23; Sp. p. 4908; Gaz. vol. 148; p. 840.  
 Indurated product and preparing same. L. H. Backeland. No. 912,852; Dec. 7; Sp. p. 1709; Gaz. vol. 149; p. 277.  
 Infant's band. J. Gundel. No. 939,012; Nov. 2; Sp. p. 1216; Gaz. vol. 148; p. 194.  
 Infant's high chair. H. Jaspersen. No. 930,074; Aug. 3; Sp. p. 951; Gaz. vol. 145; p. 154.  
 Infusions, Apparatus for preparing. F. A. Cauchois. No. 941,009; Nov. 23; Sp. p. 5665; Gaz. vol. 148; p. 957.  
 Ingot. R. B. Carnahan, Jr. No. 940,785; Nov. 23; Sp. p. 5202; Gaz. vol. 148; p. 883.  
 Ingot, &c., casting apparatus. W. J. Evans. No. 909,570; Jan. 12; Sp. p. 2299; Gaz. vol. 138; p. 407.  
 Ingot-mold. E. Gathmann. No. 921,972; May 18; Sp. p. 3880; Gaz. vol. 142; p. 679.  
 Ingot-mold. E. Gathmann. No. 940,386; Nov. 16; Sp. p. 4333; Gaz. vol. 148; p. 756.  
 Ingot-mold, Automatic-stripping. J. T. Morie and J. Magnanelli. No. 933,638; Sept. 7; Sp. p. 1410; Gaz. vol. 146; p. 212.  
 Ingot-stripper. B. W. Head. No. 922,424; May 18; Sp. p. 4771; Gaz. vol. 142; p. 827.  
 Ingot-turning device. F. B. Carraher. No. 944,318; Dec. 28; Sp. p. 4398; Gaz. vol. 149; p. 864.  
 Ingots and other castings, Making sound metal. R. A. Hadfield. No. 933,751; Sept. 14; Sp. p. 1625; Gaz. vol. 146; p. 267.  
 Ingots, Apparatus for the continuous production of. M. Douteur. No. 944,663; Dec. 28; Sp. p. 5678; Gaz. vol. 149; p. 985.  
 Ingots, Press for the manufacture of hollow. H. Harmet. No. 921,243; May 11; Sp. p. 2347; Gaz. vol. 142; p. 411.  
 Ingots, Process and apparatus for making metal. J. F. Monnot. No. 944,370; Dec. 28; Sp. p. 5009; Gaz. vol. 149; p. 882.  
 Ingots, Solidifying. E. P. Cuinat. No. 909,556; Jan. 12; Sp. p. 2267; Gaz. vol. 138; p. 402.  
 Inhaler. F. W. Shute. No. 912,742; Feb. 16; Sp. p. 3597; Gaz. vol. 139; p. 635.  
 Inhaler. H. Weir. No. 921,034; May 11; Sp. p. 1910; Gaz. vol. 142; p. 338.  
 Inhaler. V. E. Randall. No. 928,884; July 20; Sp. p. 4513; Gaz. vol. 144; p. 786.  
 Inhaler. H. P. Collins. No. 930,841; Aug. 10; Sp. p. 2496; Gaz. vol. 145; p. 432.  
 Inhaler. E. Carabias. No. 933,360; Sept. 7; Sp. p. 739; Gaz. vol. 146; p. 115.  
 Inhaler, Filtrative. S. Danielewicz. No. 923,776; June 1; Sp. p. 1478; Gaz. vol. 143; p. 226.  
 Inhaling and heating device. H. C. Dreisvogt. No. 929,199; July 27; Sp. p. 5175; Gaz. vol. 144; p. 917.  
 Inhaling apparatus. P. H. Cherry. No. 943,180; Dec. 14; Sp. p. 2468; Gaz. vol. 149; p. 419.  
 Initiation device. E. De Moulin. No. 925,878; June 22; Sp. p. 5854; Gaz. vol. 143; p. 1012.  
 Initiation device. U. S. De Moulin. No. 943,219; Dec. 14; Sp. p. 2550; Gaz. vol. 149; p. 432.  
 Initiation-step. E. L. Woodman. No. 934,122; Sept. 14; Sp. p. 2354; Gaz. vol. 146; p. 387.  
 Injector. J. J. C. and R. D. Metcalfe. No. 944,455; Dec. 28; Sp. p. 5203; Gaz. vol. 149; p. 911.  
 Ink. R. W. Hochstetter. No. 928,450; July 20; Sp. p. 3648; Gaz. vol. 144; p. 643.  
 Ink. R. Hochstetter. No. 928,915; July 20; Sp. p. 4582; Gaz. vol. 144; p. 798.  
 Ink and mucilage stand. D. H. Edwards. No. 944,181; Dec. 21; Sp. p. 4010; Gaz. vol. 149; p. 791.



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- Ink, Apparatus for recovery of ingredients of oily. M. S. Hopkins and C. R. Barnett. No. 932,550; Aug. 31; Sp. p. 6178; Gaz. vol. 145; p. 1071.
- Ink-distributor for platen-presses. A. E. Berreyesa. No. 942,705; Dec. 7; Sp. p. 1391; Gaz. vol. 149; p. 228.
- Ink-fountain. J. C. Padgett. No. 917,117; Apr. 6; Sp. p. 311; Gaz. vol. 141; p. 57.
- Ink, Recovery of ingredients of oily. M. S. Hopkins and C. R. Barnett. No. 932,470; Aug. 31; Sp. p. 6011; Gaz. vol. 145; p. 1043.
- Ink, Recovery of ingredients of oily. M. S. Hopkins and C. R. Barnett. No. 932,548; Aug. 31; Sp. p. 6172; Gaz. vol. 145; p. 1070.
- Ink, Recovery of ingredients of oily. M. S. Hopkins and C. R. Barnett. No. 932,549; Aug. 31; Sp. p. 6175; Gaz. vol. 145; p. 1070.
- Ink-ribbon-feeding mechanism, Automatically-reversible. B. W. Scott. No. 917,803; Apr. 13; Sp. p. 1682; Gaz. vol. 141; p. 312.
- Ink, Stenciling. C. E. Fellow. No. 911,327; Feb. 2; Sp. p. 602; Gaz. vol. 139; p. 103.
- Ink-supplying apparatus. M. M. Buckler. No. 931,560; Aug. 17; Sp. p. 4061; Gaz. vol. 145; p. 700.
- Ink-well. A. E. Carlson. No. 908,544; Jan. 5; Sp. p. 236; Gaz. vol. 138; p. 40.
- Ink-well. O. Nollin. No. 912,880; Feb. 16; Sp. p. 3844; Gaz. vol. 139; p. 377.
- Ink-well. J. W. Ferry. No. 917,573; Apr. 6; Sp. p. 1193; Gaz. vol. 141; p. 209.
- Ink-well. S. B. Smith and W. Thissen. No. 919,482; Apr. 27; Sp. p. 5431; Gaz. vol. 141; p. 935.
- Ink-well. J. F. Dobias. No. 924,970; June 15; Sp. p. 4031; Gaz. vol. 143; p. 686.
- Ink-well. F. Guttendorf. No. 944,858; Dec. 28; Sp. p. 6111; Gaz. vol. 149; p. 1050.
- Ink-well cover. R. H. and R. J. Brown. No. 943,733; Dec. 21; Sp. p. 3675; Gaz. vol. 149; p. 639.
- Inking apparatus. H. F. Bechman. No. 942,703; Dec. 7; Sp. p. 1387; Gaz. vol. 149; p. 227.
- Inking device. R. W. Munk. No. 930,309; Aug. 3; Sp. p. 1384; Gaz. vol. 145; p. 229.
- Inking mechanism. W. Spalckhaver. No. 937,267; Oct. 19; Sp. p. 3480; Gaz. vol. 147; p. 601.
- Inkstand. W. H. Wetmore. No. 909,491; Jan. 12; Sp. p. 2142; Gaz. vol. 138; p. 379.
- Inkstand. W. Rodiger. No. 922,957; May 25; Sp. p. 5905; Gaz. vol. 142; p. 1029.
- Inkstand. H. R. Christians. No. 941,308; Nov. 23; Sp. p. 6311; Gaz. vol. 148; p. 1056.
- Inlaying, ornamenting, and case-hardening metallic surfaces. S. O. Cowper-Coles. No. 911,116; Feb. 2; Sp. p. 181; Gaz. vol. 139; p. 34.
- Innersoles, Machine for applying and using resinous cement in the manufacture of. A. Thoma. No. 926,712; June 29; Sp. p. 7515; Gaz. vol. 143; p. 1323.
- Innersoles, Machine for applying duck to. A. Schwartz. No. 919,648; Apr. 27; Sp. p. 5766; Gaz. vol. 141; p. 992.
- Innersoles, Manufacture of. A. Thoma. No. 926,711; June 29; Sp. p. 7508; Gaz. vol. 143; p. 1323.
- Inseam-trimming machine. W. B. Keighley. No. 934,186; Sept. 14; Sp. p. 2480; Gaz. vol. 146; p. 409.
- Inseam-trimming machine. F. H. Hawkins and A. Bourgeois. No. 939,498; Nov. 9; Sp. p. 2329; Gaz. vol. 148; p. 386.
- Insect-catcher. H. Stranzbach. No. 935,428; Sept. 28; Sp. p. 4925; Gaz. vol. 146; p. 870.
- Insect-catcher. E. Attaway. No. 940,116; Nov. 16; Sp. p. 3706; Gaz. vol. 148; p. 631.
- Insect catcher or paper holder. B. Heller. No. 944,434; Dec. 28; Sp. p. 5151; Gaz. vol. 149; p. 904.
- Insect-catching machine. J. M. Anderson. No. 944,122; Dec. 21; Sp. p. 4500; Gaz. vol. 149; p. 772.
- Insect-destroyer. A. O. Ellithorp. No. 913,205; Feb. 23; Sp. p. 4498; Gaz. vol. 139; p. 811.
- Insect-destroyer. F. J. Shebestor. No. 915,121; Mar. 16; Sp. p. 3035; Gaz. vol. 140; p. 536.
- Insect-destroyer. J. A. Haelele. No. 916,305; Mar. 23; Sp. p. 5362; Gaz. vol. 140; p. 951.
- Insect-destroyer. H. S. Beahm. No. 920,522; May 4; Sp. p. 869; Gaz. vol. 142; p. 140.
- Insect-destroyer. A. Swainson. No. 941,742; Nov. 30; Sp. p. 7245; Gaz. vol. 148; p. 1222.
- Insect-extermimator. J. J. and M. E. Cochran. No. 919,827; Apr. 27; Sp. p. 6167; Gaz. vol. 141; p. 1052.
- Insect-powder sprayer. E. Ludde. No. 921,422; May 11; Sp. p. 2735; Gaz. vol. 142; p. 470.
- Insect-trap. C. A. Heath and R. B. Martin. No. 914,571; Mar. 9; Sp. p. 1930; Gaz. vol. 140; p. 329.
- Insect-trap. R. Hazelrigg. No. 942,204; Dec. 7; Sp. p. 379; Gaz. vol. 149; p. 58.
- Insecticide. J. W. Lafer. No. 914,430; Mar. 9; Sp. p. 1652; Gaz. vol. 140; p. 282.
- Insecticide. B. W. Marston. No. 920,598; May 4; Sp. p. 1022; Gaz. vol. 142; p. 166.
- Insecticide. J. W. Woods. No. 929,527; July 27; Sp. p. 5332; Gaz. vol. 144; p. 1025.
- Insecticide. F. X. Lechner. No. 930,549; Aug. 10; Sp. p. 1909; Gaz. vol. 145; p. 336.
- Insecticide. J. R. Martin. No. 937,081; Oct. 19; Sp. p. 3072; Gaz. vol. 147; p. 540.
- Insecticide, Composition for making. J. B. Irving. No. 934,533; Sept. 21; Sp. p. 3141; Gaz. vol. 146; p. 548.
- Insecticide-distributor. C. H. Leggett. No. 916,728; Mar. 30; Sp. p. 6220; Gaz. vol. 140; p. 1113.
- Insecticide or like materials, Machine for distributing dry. T. D. Ware. No. 912,635; Feb. 16; Sp. p. 3334; Gaz. vol. 139; p. 598.
- Insetting mechanism. H. G. La Sor. No. 908,469; Jan. 5; Sp. p. 66; Gaz. vol. 138; p. 14.
- Insole. O. F. Fogelson. No. 943,233; Dec. 14; Sp. p. 2606; Gaz. vol. 149; p. 441.
- Insole-cleaning machine or device. J. F. Noonan. No. 914,448; Mar. 9; Sp. p. 1681; Gaz. vol. 140; p. 288.
- Insole or support for deformed feet. I. Tauber. No. 940,564; Nov. 16; Sp. p. 4711; Gaz. vol. 148; p. 784.
- Insole-reinforcing machine. W. H. Hooper. No. 940,690; Nov. 23; Sp. p. 4984; Gaz. vol. 148; p. 851.
- Insole-reinforcing machine. W. H. Hooper. No. 944,239; Dec. 21; Sp. p. 4715; Gaz. vol. 149; p. 808.
- Instep-support or arch-prop. J. W. Arrowsmith. (Reissue.) No. 13,026; Oct. 19; Sp. p. 4472; Gaz. vol. 147; p. 758.
- Instep-supporter. A. Toporzer. No. 918,101; Apr. 13; Sp. p. 2318; Gaz. vol. 141; p. 416.
- Instrument and medicine case. C. B. Benson. No. 941,608; Nov. 30; Sp. p. 6949; Gaz. vol. 148; p. 1176.
- Instrument-case. M. S. Chism. No. 920,023; Apr. 27; Sp. p. 6540; Gaz. vol. 141; p. 1116.
- Instruments, Case or support for fragile. H. Y. Norwood. No. 921,149; May 11; Sp. p. 2147; Gaz. vol. 142; p. 378.
- Instruments, Indicating means for. H. P. Davis and P. MacGahan. No. 920,927; May 11; Sp. p. 1709; Gaz. vol. 142; p. 303.
- Insulated hanger. L. Steinberger. No. 923,597; June 1; Sp. p. 1091; Gaz. vol. 143; p. 167.
- Insulated joint, Adjustable. T. H. Brady. No. 916,414; Mar. 30; Sp. p. 5591; Gaz. vol. 140; p. 1013.
- Insulated rail-joint. E. F. Schermernhorn. No. 909,458; Jan. 12; Sp. p. 2073; Gaz. vol. 138; p. 368.
- Insulated rail-joint. J. MacMartin. No. 910,558; Jan. 26; Sp. p. 4367; Gaz. vol. 138; p. 800.
- Insulated wires, Implement for slitting the envelop of twin. W. J. and T. F. Courtney. No. 918,972; Apr. 20; Sp. p. 4201; Gaz. vol. 141; p. 734.
- Insulating appliance. W. A. Bonnell. No. 929,543; July 27; Sp. p. 5863; Gaz. vol. 144; p. 1030.
- Insulating bodies, Producing. V. A. Noodt and G. Götsche. No. 941,585; Nov. 30; Sp. p. 6904; Gaz. vol. 148; p. 1168.
- Insulating-bushing for electrical service-boxes. R. C. Cole. No. 918,969; Apr. 20; Sp. p. 4196; Gaz. vol. 141; p. 733.
- Insulating composition. M. McGerry. No. 931,015; Aug. 10; Sp. p. 2906; Gaz. vol. 145; p. 489.
- Insulating compound. P. J. Cannon, W. H. Young, and C. Bateholts. No. 910,989; Jan. 26; Sp. p. 5200; Gaz. vol. 138; p. 937.
- Insulating-coverings for electric conductors, Making. W. A. Phillips and F. Hutchins. No. 941,810; Nov. 30; Sp. p. 7407; Gaz. vol. 148; p. 1245.
- Insulating electric conductors. G. H. Rupley. No. 919,644; Apr. 27; Sp. p. 5758; Gaz. vol. 141; p. 991.
- Insulating fabrics, Making. C. F. Peterson. No. 940,188; Nov. 16; Sp. p. 3862; Gaz. vol. 148; p. 656.
- Insulating high-voltage transmission-lines. W. T. Goddard. No. 911,973; Feb. 9; Sp. p. 1944; Gaz. vol. 139; p. 341.
- Insulating-joint. A. F. Batchelder. No. 922,556; May 25; Sp. p. 5064; Gaz. vol. 142; p. 899.
- Insulating-joint. C. A. Jaynes. No. 928,763; July 20; Sp. p. 4273; Gaz. vol. 144; p. 745.
- Insulating-linings, Means for attaching. C. D. Platt. No. 937,463; Oct. 19; Sp. p. 3915; Gaz. vol. 147; p. 665.
- Insulating machine, Wire. F. D. Platter. No. 918,590; Apr. 20; Sp. p. 3322; Gaz. vol. 141; p. 604.
- Insulating material, Composition of matter for and making. C. A. Keller and B. G. Jamieson. No. 915,774; Mar. 23; Sp. p. 4394; Gaz. vol. 140; p. 780.
- Insulating shaft-coupling. J. R. Grundy. No. 939,829; Nov. 9; Sp. p. 3040; Gaz. vol. 148; p. 501.
- Insulating sheet metal. W. R. Whitney. No. 923,228; June 1; Sp. p. 223; Gaz. vol. 143; p. 37.
- Insulating-stud. L. E. Underwood. No. 928,084; July 13; Sp. p. 2860; Gaz. vol. 144; p. 488.
- Insulating-support for high-tension conductors. R. D. Mershon. No. 917,785; Apr. 13; Sp. p. 1654; Gaz. vol. 141; p. 307.
- Insulating-support for high-tension conductors. R. D. Mershon. No. 942,335; Dec. 7; Sp. p. 649; Gaz. vol. 149; p. 104.
- Insulating-tile. F. L. Jobson. No. 919,175; Apr. 20; Sp. p. 4573; Gaz. vol. 141; p. 798.
- Insulating vessel, Heat-. M. Gumbert. No. 929,422; July 27; Sp. p. 5648; Gaz. vol. 144; p. 991.
- Insulation. Cylindrical. H. A. Woods. No. 932,080; Aug. 24; Sp. p. 5228; Gaz. vol. 145; p. 891.
- Insulator. F. J. High. No. 908,463; Jan. 5; Sp. p. 56; Gaz. vol. 138; p. 12.
- Insulator. S. and W. O. Bartley. No. 915,406; Mar. 16; Sp. p. 3608; Gaz. vol. 140; p. 628.
- Insulator. A. Weber, Jr. No. 917,207; Apr. 6; Sp. p. 505; Gaz. vol. 141; p. 88.
- Insulator. W. G. Clark. No. 918,127; Apr. 13; Sp. p. 2374; Gaz. vol. 141; p. 425.
- Insulator. B. A. Pond. No. 918,905; Apr. 20; Sp. p. 4058; Gaz. vol. 141; p. 712.
- Insulator. F. Schaub. No. 919,386; Apr. 27; Sp. p. 5204; Gaz. vol. 141; p. 902.
- Insulator. L. McCarthy. No. 922,313; May 18; Sp. p. 4542; Gaz. vol. 142; p. 789.
- Insulator. L. Steinberger. No. 927,187; July 6; Sp. p. 1010; Gaz. vol. 144; p. 164.
- Insulator. J. T. Bond. No. 927,321; July 6; Sp. p. 1256; Gaz. vol. 144; p. 207.

*Alphabetical list of inventions—Continued.*

- Insulator. E. R. Hill. No. 929,132; July 27; Sp. p. 5032; Gaz. vol. 144; p. 895.  
 Insulator. J. W. Ranson. No. 929,878; Aug. 3; Sp. p. 541; Gaz. vol. 145; p. 87.  
 Insulator. L. McCarthy. No. 930,608; Aug. 10; Sp. p. 2028; Gaz. vol. 145; p. 355.  
 Insulator. M. Neubert and R. P. Jones. No. 930,609; Aug. 10; Sp. p. 2029; Gaz. vol. 145; p. 356.  
 Insulator. C. M. Graham. No. 930,750; Aug. 10; Sp. p. 2318; Gaz. vol. 145; p. 402.  
 Insulator. M. T. A. Kubierschky and P. E. Herkner. No. 937,447; Oct. 19; Sp. p. 3877; Gaz. vol. 147; p. 660.  
 Insulator. P. S. Dumboltion and F. Franz. No. 937,736; Oct. 19; Sp. p. 4447; Gaz. vol. 147; p. 755.  
 Insulator. A. G. Dennler. No. 944,259; Dec. 28; Sp. p. 4767; Gaz. vol. 149; p. 843.  
 Insulator and lightning-arrester, Combined. W. F. Hiatt. No. 927,045; July 6; Sp. p. 727; Gaz. vol. 144; p. 115.  
 Insulator and wire-clamp. J. Blackburn. No. 915,330; Mar. 16; Sp. p. 3455; Gaz. vol. 140; p. 603.  
 Insulator-bracket. E. V. Brown. No. 937,984; Oct. 26; Sp. p. 4971; Gaz. vol. 147; p. 857.  
 Insulator-bracket, Distributing. A. L. Stadermann. No. 926,906; July 6; Sp. p. 417; Gaz. vol. 144; p. 68.  
 Insulator, Canopy-. E. E. Bechtold. No. 917,238; Apr. 6; Sp. p. 564; Gaz. vol. 141; p. 98.  
 Insulator, Disk-. L. Steinberger. No. 913,439; Feb. 23; Sp. p. 4972; Gaz. vol. 139; p. 890.  
 Insulator, Electric. J. A. Wells. No. 936,840; Oct. 12; Sp. p. 2587; Gaz. vol. 147; p. 431.  
 Insulator, Electric-line. R. Henry. No. 922,477; May 25; Sp. p. 4899; Gaz. vol. 142; p. 873.  
 Insulator for electric lines, Strain-. E. E. Rose. No. 937,867; Oct. 26; Sp. p. 4734; Gaz. vol. 147; p. 818.  
 Insulator for electric wires. A. V. Siler. No. 931,507; Aug. 17; Sp. p. 3967; Gaz. vol. 145; p. 684.  
 Insulator for electrically-charged wires. S. J. Conrad. No. 912,364; Feb. 16; Sp. p. 2767; Gaz. vol. 139; p. 504.  
 Insulator for high-tension transmission-lines. C. E. Eveleth. No. 917,031; Apr. 6; Sp. p. 144; Gaz. vol. 141; p. 28.  
 Insulator for third rails. L. Steinberger. No. 928,709; July 20; Sp. p. 4168; Gaz. vol. 144; p. 726.  
 Insulator for third rails. E. M. Weaver. No. 932,523; Aug. 31; Sp. p. 6115; Gaz. vol. 145; p. 1061.  
 Insulator, High-potential-strain-. L. Steinberger. No. 927,186; July 6; Sp. p. 1008; Gaz. vol. 144; p. 163.  
 Insulator, High-tension. J. K. Soden. No. 912,501; Feb. 16; Sp. p. 3039; Gaz. vol. 139; p. 550.  
 Insulator house-fixture, Automatically-adjustable strain-. C. S. Burge. No. 930,527; Aug. 10; Sp. p. 1867; Gaz. vol. 145; p. 329.  
 Insulator-mold. C. C. Johnson. No. 913,212; Feb. 23; Sp. p. 4509; Gaz. vol. 139; p. 812.  
 Insulator, Non-detachable. H. Bartlett and A. P. MacCallum. No. 937,140; Oct. 19; Sp. p. 3199; Gaz. vol. 147; p. 560.  
 Insulator-pin. S. J. Edmiston. No. 910,799; Jan. 26; Sp. p. 4856; Gaz. vol. 138; p. 877.  
 Insulator-pin. C. J. Darff. No. 937,515; Oct. 19; Sp. p. 4023; Gaz. vol. 147; p. 683.  
 Insulator-pressing machine. T. T. McCann. No. 934,930; Sept. 21; Sp. p. 3925; Gaz. vol. 146; p. 681.  
 Insulator, Protected. J. H. B. Rea. No. 909,935; Jan. 19; Sp. p. 3038; Gaz. vol. 138; p. 563.  
 Insulator, Reinforced wooden support for. C. M. Graham. No. 930,751; Aug. 10; Sp. p. 2319; Gaz. vol. 145; p. 402.  
 Insulator, Section-. H. B. Clarke. No. 931,385; Aug. 17; Sp. p. 3740; Gaz. vol. 145; p. 645.  
 Insulator, Section-break. T. Varney. No. 933,800; Sept. 14; Sp. p. 1700; Gaz. vol. 146; p. 282.  
 Insulator, Strain-. T. Varney and E. E. Rose. No. 937,896; Oct. 26; Sp. p. 4787; Gaz. vol. 147; p. 828.  
 Insulator, Strain-. T. Varney. No. 937,897; Oct. 26; Sp. p. 4788; Gaz. vol. 147; p. 828.  
 Insulator, Strain-. T. Varney. No. 938,092; Oct. 26; Sp. p. 5212; Gaz. vol. 147; p. 893.  
 Insulator, Strain-. C. F. Boldman. No. 938,409; Oct. 26; Sp. p. 5907; Gaz. vol. 147; p. 1002.  
 Insulator-support. F. Woodmansee. No. 927,701; July 13; Sp. p. 2084; Gaz. vol. 144; p. 362.  
 Insulator, Third-rail. L. Steinberger. No. 917,501; Apr. 6; Sp. p. 1065; Gaz. vol. 141; p. 186.  
 Insulator, Third-rail. L. M. Randolph. No. 922,951; May 25; Sp. p. 5897; Gaz. vol. 142; p. 1027.  
 Insulator, Tubular. L. Steinberger. No. 927,185; July 6; Sp. p. 1006; Gaz. vol. 144; p. 163.  
 Insulators, Die for forming. F. M. Locke. (Reissue.) No. 12,934; Apr. 6; Sp. p. 1532; Gaz. vol. 141; p. 266.  
 Insulators, Machine for producing glass. C. M. Zurn. No. 937,137; Oct. 19; Sp. p. 3191; Gaz. vol. 147; p. 559.  
 Insulators, Manufacture of spar-. F. M. Locke. (Reissue.) No. 12,992; July 13; Sp. p. 3189; Gaz. vol. 144; p. 544.  
 Insulators, Manufacturing. L. McCarthy. No. 941,032; Nov. 23; Sp. p. 5718; Gaz. vol. 148; p. 965.  
 Insulators, Screw-press to form. R. G. Hemingray and C. Hawk. No. 909,595; Jan. 12; Sp. p. 2342; Gaz. vol. 138; p. 415.  
 Insulators, Supporting-pin for. F. A. C. Perrine. No. 932,570; Aug. 31; Sp. p. 6222; Gaz. vol. 145; p. 1078.  
 Insurance policy, Fractional-. C. Catlett and B. F. Childress. No. 918,280; Apr. 13; Sp. p. 2687; Gaz. vol. 141; p. 475.  
 Integrating device and recording-manometer. F. N. Connet. No. 920,025; Apr. 27; Sp. p. 6545; Gaz. vol. 141; p. 1116.  
 Interlocking machine. J. S. Hobson. No. 911,723; Feb. 9; Sp. p. 1391; Gaz. vol. 139; p. 259.  
 Interlocking switch and signal system. E. K. Post. No. 923,702; June 1; Sp. p. 1296; Gaz. vol. 143; p. 202.  
 Intermittent coupling, Automatic. C. Trog. No. 910,609; Jan. 26; Sp. p. 4481; Gaz. vol. 138; p. 817.  
 Intermittent line-switch. E. E. F. Creighton. No. 933,826; Sept. 14; Sp. p. 1759; Gaz. vol. 146; p. 292.  
 Internal-combustion and air-compressing engine. W. Risley. No. 937,717; Oct. 19; Sp. p. 4409; Gaz. vol. 147; p. 749.  
 Internal-combustion engine. C. W. Weiss. No. 908,527; Jan. 5; Sp. p. 199; Gaz. vol. 138; p. 34.  
 Internal-combustion engine. F. W. Brady. No. 909,531; Jan. 12; Sp. p. 2219; Gaz. vol. 138; p. 394.  
 Internal-combustion engine. C. R. Daellenbach. No. 909,558; Jan. 12; Sp. p. 2273; Gaz. vol. 138; p. 403.  
 Internal-combustion engine. G. M. S. Tait and C. Ellis. No. 911,345; Feb. 2; Sp. p. 627; Gaz. vol. 139; p. 108.  
 Internal-combustion engine. A. O. McCollum. No. 912,150; Feb. 9; Sp. p. 2290; Gaz. vol. 139; p. 197.  
 Internal-combustion engine. C. E. Duryea. No. 912,546; Feb. 16; Sp. p. 3157; Gaz. vol. 139; p. 566.  
 Internal-combustion engine. J. C. and W. C. Strickler. No. 913,070; Feb. 23; Sp. p. 4225; Gaz. vol. 139; p. 764.  
 Internal-combustion engine. A. L. Galusha. No. 914,566; Mar. 9; Sp. p. 1921; Gaz. vol. 140; p. 327.  
 Internal-combustion engine. W. H. Frost. No. 917,283; Apr. 6; Sp. p. 667; Gaz. vol. 141; p. 114.  
 Internal-combustion engine. J. F. Duryea and W. M. Remington. No. 917,722; Apr. 6; Sp. p. 1478; Gaz. vol. 141; p. 259.  
 Internal-combustion engine. C. W. Snyder. No. 918,211; Apr. 13; Sp. p. 2542; Gaz. vol. 141; p. 453.  
 Internal-combustion engine. L. G. Sabathé. No. 918,704; Apr. 20; Sp. p. 3639; Gaz. vol. 141; p. 645.  
 Internal-combustion engine. H. H. Whitehead. No. 919,103; Apr. 20; Sp. p. 4428; Gaz. vol. 141; p. 774.  
 Internal-combustion engine. J. J. McIntyre. No. 920,167; May 4; Sp. p. 144; Gaz. vol. 142; p. 23.  
 Internal-combustion engine. G. R. Bott and K. Langnickel. No. 920,816; May 4; Sp. p. 1464; Gaz. vol. 142; p. 237.  
 Internal-combustion engine. C. W. Weiss. No. 921,035; May 11; Sp. p. 1911; Gaz. vol. 142; p. 338.  
 Internal-combustion engine. J. C. Peache and M. H. Robinson. No. 921,649; May 11; Sp. p. 3205; Gaz. vol. 142; p. 547.  
 Internal-combustion engine. B. M. Aslakson. No. 921,657; May 18; Sp. p. 3226; Gaz. vol. 142; p. 575.  
 Internal-combustion engine. C. D. McClintock. No. 922,613; May 25; Sp. p. 5183; Gaz. vol. 142; p. 917.  
 Internal-combustion engine. T. D. Kelly. No. 922,911; May 25; Sp. p. 5812; Gaz. vol. 142; p. 1014.  
 Internal-combustion engine. J. G. A. Kitchen. No. 923,536; June 1; Sp. p. 935; Gaz. vol. 143; p. 145.  
 Internal-combustion engine. E. Munsch. No. 923,562; June 1; Sp. p. 1001; Gaz. vol. 143; p. 154.  
 Internal-combustion engine. W. E. Struss. No. 924,116; June 8; Sp. p. 2185; Gaz. vol. 143; p. 365.  
 Internal-combustion engine. R. A. Reynolds. No. 924,382; June 8; Sp. p. 2809; Gaz. vol. 143; p. 456.  
 Internal-combustion engine. E. Fish. No. 925,766; June 22; Sp. p. 5618; Gaz. vol. 143; p. 975.  
 Internal-combustion engine. W. H. Hollopetter. No. 926,564; June 29; Sp. p. 7207; Gaz. vol. 143; p. 1274.  
 Internal-combustion engine. E. W. Graef. No. 927,233; July 6; Sp. p. 1102; Gaz. vol. 144; p. 179.  
 Internal-combustion engine. H. H. Simon. No. 928,405; July 20; Sp. p. 3553; Gaz. vol. 144; p. 628.  
 Internal-combustion engine. E. Berliner. No. 928,842; July 20; Sp. p. 4422; Gaz. vol. 144; p. 770.  
 Internal-combustion engine. J. J. Kulage. No. 929,769; Aug. 3; Sp. p. 2922; Gaz. vol. 145; p. 50.  
 Internal-combustion engine. W. Burnell. No. 929,829; Aug. 3; Sp. p. 423; Gaz. vol. 145; p. 70.  
 Internal-combustion engine. G. Green. No. 930,372; Aug. 10; Sp. p. 1518; Gaz. vol. 145; p. 275.  
 Internal-combustion engine. H. H. Dow. No. 930,943; Aug. 10; Sp. p. 2718; Gaz. vol. 145; p. 465.  
 Internal-combustion engine. E. A. Rundlöf. No. 931,346; Aug. 17; Sp. p. 3653; Gaz. vol. 145; p. 630.  
 Internal-combustion engine. G. L. Crook. No. 931,388; Aug. 17; Sp. p. 3747; Gaz. vol. 145; p. 646.  
 Internal-combustion engine. H. W. Beach. No. 931,837; Aug. 24; Sp. p. 4681; Gaz. vol. 145; p. 871.  
 Internal-combustion engine. E. M. Turner. No. 931,976; Aug. 24; Sp. p. 5001; Gaz. vol. 145; p. 857.  
 Internal-combustion engine. C. H. Sergeant. No. 932,184; Aug. 24; Sp. p. 5438; Gaz. vol. 145; p. 926.  
 Internal-combustion engine. D. H. Coates. No. 933,960; Sept. 14; Sp. p. 2030; Gaz. vol. 146; p. 335.  
 Internal-combustion engine. E. Chapman. No. 936,409; Oct. 12; Sp. p. 1696; Gaz. vol. 147; p. 286.  
 Internal-combustion engine. D. Roberts and C. James. No. 937,181; Oct. 19; Sp. p. 3293; Gaz. vol. 147; p. 573.  
 Internal-combustion engine. E. F. Sickenberger. No. 937,653; Oct. 19; Sp. p. 4268; Gaz. vol. 147; p. 729.  
 Internal-combustion engine. J. V. Rice, Jr. No. 937,862; Oct. 26; Sp. p. 4720; Gaz. vol. 147; p. 817.  
 Internal-combustion engine. G. V. Benson. No. 938,633; Nov. 2; Sp. p. 421; Gaz. vol. 148; p. 6.  
 Internal-combustion engine. W. M. Appleton. No. 939,376; Nov. 9; Sp. p. 2079; Gaz. vol. 148; p. 346.  
 Internal-combustion engine. A. J. West. No. 939,459; Nov. 9; Sp. p. 2250; Gaz. vol. 148; p. 373.  
 Internal-combustion engine. R. L. Frost. No. 941,138; Nov. 23; Sp. p. 5950; Gaz. vol. 148; p. 1001.



*Alphabetical list of inventions—Continued.*

- Internal-combustion engine. R. Lucas. No. 941,376; Nov. 30; Sp. p. 6463; Gaz. vol. 148; p. 1100.  
 Internal-combustion engine. E. Higgins. No. 942,070; Dec. 7; Sp. p. 60; Gaz. vol. 149; p. 12.  
 Internal-combustion engine. C. G. Wridgway. No. 942,124; Dec. 7; Sp. p. 210; Gaz. vol. 149; p. 32.  
 Internal-combustion engine. C. G. Weld. No. 942,227; Dec. 7; Sp. p. 427; Gaz. vol. 149; p. 66.  
 Internal-combustion engine. H. L. Jones. No. 942,782; Dec. 7; Sp. p. 1548; Gaz. vol. 149; p. 254.  
 Internal-combustion engine. F. and E. Carter. No. 942,886; Dec. 14; Sp. p. 1816; Gaz. vol. 149; p. 320.  
 Internal-combustion engine. C. O. Hedstrom. No. 943,072; Dec. 14; Sp. p. 2271; Gaz. vol. 149; p. 385.  
 Internal-combustion engine. J. O. Heinze, Jr. No. 943,408; Dec. 14; Sp. p. 2946; Gaz. vol. 149; p. 497.  
 Internal-combustion engine. I. Hovey. No. 943,598; Dec. 14; Sp. p. 3335; Gaz. vol. 149; p. 562.  
 Internal-combustion engine. D. C. Hathaway. No. 944,362; Dec. 28; Sp. p. 4995; Gaz. vol. 149; p. 879.  
 Internal-combustion engine. W. E. Nageborn. No. 944,811; Dec. 28; Sp. p. 6002; Gaz. vol. 149; p. 1033.  
 Internal-combustion engine, Compound. S. A. Reeve. No. 926,134; June 29; Sp. p. 6376; Gaz. vol. 143; p. 1132.  
 Internal-combustion engine, Double-acting. H. O. Horner and J. P. Boyland. No. 943,597; Dec. 14; Sp. p. 3334; Gaz. vol. 149; p. 562.  
 Internal-combustion engine, Rotary. G. Huscher. No. 914,281; Mar. 2; Sp. p. 1332; Gaz. vol. 140; p. 206.  
 Internal-combustion engine, Valveless. L. F. Lemperiere. No. 932,419; Aug. 24; Sp. p. 5875; Gaz. vol. 145; p. 1003.  
 Internal-combustion heat-engine. J. L. Bogert. No. 927,103; July 6; Sp. p. 850; Gaz. vol. 144; p. 136.  
 Internal-combustion motor. C. H. Atkins. No. 925,793; June 22; Sp. p. 5674; Gaz. vol. 143; p. 984.  
 Internal-combustion rotary engine. W. G. Macomber. No. 933,316; Sept. 7; Sp. p. 638; Gaz. vol. 146; p. 99.  
 Interrupter. R. H. Wappler. No. 929,353; July 27; Sp. p. 5538; Gaz. vol. 144; p. 970.  
 Invalid-chair. D. Rupley. No. 931,803; Aug. 24; Sp. p. 4619; Gaz. vol. 145; p. 801.  
 Invalid-handling device. E. Cleaves. No. 943,003; Dec. 14; Sp. p. 2097; Gaz. vol. 149; p. 360.  
 Invalid lifter, swing, and wheel-chair combined. C. F. Moore. No. 924,177; June 8; Sp. p. 2363; Gaz. vol. 143; p. 387.  
 Invalid-table. J. Scheibner. No. 921,468; May 11; Sp. p. 2827; Gaz. vol. 142; p. 425.  
 Invalid's chair. E. E. Higgins. No. 928,051; July 13; Sp. p. 2808; Gaz. vol. 144; p. 478.  
 Invalids, Mechanism for elevating. R. L. Flovd. No. 936,107; Oct. 5; Sp. p. 1065; Gaz. vol. 147; p. 162.  
 Invalid's supporter. E. I. Boyce. No. 914,785; Mar. 9; Sp. p. 2380; Gaz. vol. 140; p. 400.  
 Invalid's table. M. A. Hawley. No. 928,752; July 20; Sp. p. 4254; Gaz. vol. 144; p. 741.  
 Invalid's table. F. A. Smith and D. L. O'Brien. No. 937,480; Oct. 19; Sp. p. 3949; Gaz. vol. 147; p. 670.  
 Inventory, Perpetual. E. C. Albree. No. 921,333; May 11; Sp. p. 2551; Gaz. vol. 142; p. 441.  
 Inverted burner. J. J. Weyer. No. 935,241; Sept. 23; Sp. p. 4560; Gaz. vol. 146; p. 811.  
 Invoice, Duplicate. F. W. Buffum. No. 919,817; Apr. 27; Sp. p. 6150; Gaz. vol. 141; p. 1049.  
 Iodin compounds of fats, Manufacture of new stable. B. R. Seifert. No. 913,311; Feb. 23; Sp. p. 4721; Gaz. vol. 139; p. 846.  
 Iodin, Extracting. E. Herrmann. No. 915,959; Mar. 23; Sp. p. 4723; Gaz. vol. 140; p. 833.  
 Ions, Ionizer or apparatus for producing gaseous. L. I. Blake. No. 913,941; Mar. 2; Sp. p. 593; Gaz. vol. 140; p. 95.  
 Ions, Process and apparatus for the production of. L. I. Blake. No. 937,759; Oct. 26; Sp. p. 4503; Gaz. vol. 147; p. 781.  
 Iron: See Baking-iron; Chair-iron; Corner-iron; Coupling carry-iron; Curling-iron; Fish-iron; Gas-iron; Hair-waving iron; Laundry-iron; Plow-iron; Puff-iron; Puffing-iron; Railway guard-iron; Sad-iron; Sheet-iron; Smoothing-iron; Soldering-iron; Twyer-iron; Vehicle-body corner-iron; Wagon-box corner-iron.  
 Iron. J. Marchek. No. 938,261; Oct. 26; Sp. p. 5568; Gaz. vol. 147; p. 952.  
 Iron a product having cutting and other properties of high-grade tool and high-speed steel, Producing from foundry-. E. A. Custer. No. 927,495; July 13; Sp. p. 1625; Gaz. vol. 144; p. 292.  
 Iron and residues, Treating detinned. W. W. Murray and H. M. Fernberger. No. 943,986; Dec. 21; Sp. p. 4210; Gaz. vol. 149; p. 726.  
 Iron and steel, Charge for use in treating. M. L. Bricker. No. 909,864; Jan. 19; Sp. p. 2879; Gaz. vol. 138; p. 537.  
 Iron and steel, Direct process of manufacturing. T. J. Heskett and M. Moore. No. 917,475; Apr. 6; Sp. p. 1022; Gaz. vol. 141; p. 178.  
 Iron and steel, Manufacturing. C. Ellis. No. 911,870; Feb. 9; Sp. p. 1650; Gaz. vol. 139; p. 306.  
 Iron and steel, Melting pig-. H. A. Evans. No. 912,298; Feb. 16; Sp. p. 2628; Gaz. vol. 139; p. 483.  
 Iron and steel, Metallurgy of. W. S. Simpson and H. Oviatt. No. 943,574; Dec. 14; Sp. p. 3232; Gaz. vol. 149; p. 555.  
 Iron bands of packing-cases, Device for stretching. E. Blauvac. No. 917,407; Apr. 6; Sp. p. 906; Gaz. vol. 141; p. 157.  
 Iron, Briquetting metallic. L. Weisz. No. 943,724; Dec. 21; Sp. p. 3661; Gaz. vol. 149; p. 636.  
 Iron, Copperizing. W. G. Clark. No. 932,964; Aug. 31; Sp. p. 7020; Gaz. vol. 145; p. 1207.  
 Iron-cutter. W. R. Walker. No. 914,620; Mar. 9; Sp. p. 2029; Gaz. vol. 140; p. 345.  
 Iron, Extracting. C. G. P. de Laval. No. 913,405; Feb. 23; Sp. p. 4900; Gaz. vol. 139; p. 879.  
 Iron heated by electricity. J. Collicott. No. 942,308; Dec. 7; Sp. p. 599; Gaz. vol. 149; p. 95.  
 Iron-heater. F. L. Miller. No. 923,983; June 8; Sp. p. 1952; Gaz. vol. 143; p. 394.  
 Iron-heater, Portable. E. C. Thompson. No. 942,422; Dec. 7; Sp. p. 809; Gaz. vol. 149; p. 132.  
 Iron, Making planished sheet-. S. M. Cooper. No. 918,971; Apr. 20; Sp. p. 4200; Gaz. vol. 141; p. 734.  
 Iron manufacture. R. B. Carnahan, Jr. No. 940,784; Nov. 23; Sp. p. 5201; Gaz. vol. 148; p. 883.  
 Iron, Metal product from cast-. E. A. Custer. No. 927,496; July 13; Sp. p. 1626; Gaz. vol. 144; p. 292.  
 Iron, Metallurgy of. W. S. Simpson and H. Oviatt. No. 918,381; Apr. 13; Sp. p. 2878; Gaz. vol. 141; p. 509.  
 Iron or articles cast from iron, Reducing the amount of carbon in cast-. W. Rubel. No. 935,234; Sept. 28; Sp. p. 4542; Gaz. vol. 146; p. 808.  
 Iron or steel by the basic Bessemer process, Manufacture of. J. Flohr. No. 920,560; May 4; Sp. p. 949; Gaz. vol. 142; p. 154.  
 Iron or steel for casting, Preparation of. P. Rakowicz. No. 927,678; July 13; Sp. p. 2034; Gaz. vol. 144; p. 354.  
 Iron or steel, Solution for treatment of. A. Hayes. No. 913,657; Feb. 23; Sp. p. 566; Gaz. vol. 139; p. 962.  
 Iron or steel to spike, nut, or bolt machines, Device for feeding. W. H. Luden. No. 910,139; Jan. 19; Sp. p. 3432; Gaz. vol. 138; p. 629.  
 Iron or steel, Treating. F. M. Becket. No. 940,665; Nov. 23; Sp. p. 4928; Gaz. vol. 148; p. 843.  
 Iron ore, Treating. J. T. Jones. No. 930,764; Aug. 10; Sp. p. 2349; Gaz. vol. 145; p. 407.  
 Iron ores, Treating titaniferous. W. Borchers. No. 930,344; Aug. 10; Sp. p. 1455; Gaz. vol. 145; p. 266.  
 Iron-oxid scale, Electrolytically removing. C. W. Danforth and N. Jones. No. 939,223; Nov. 9; Sp. p. 1685; Gaz. vol. 148; p. 293.  
 Iron-oxid scale, Electrolytically removing. C. W. Danforth and N. Jones. No. 939,224; Nov. 9; Sp. p. 1687; Gaz. vol. 148; p. 294.  
 Iron products, Apparatus for breaking and transporting. A. C. Eastwood. No. 926,691; June 29; Sp. p. 7667; Gaz. vol. 143; p. 1316.  
 Iron, Refining. P. Sejourner. No. 928,551; July 20; Sp. p. 3846; Gaz. vol. 144; p. 674.  
 Iron, &c., Shearing apparatus for rolled. H. John. No. 919,874; Apr. 27; Sp. p. 6260; Gaz. vol. 141; p. 1068.  
 Iron, Shirt-neckband. L. H. Boversox. No. 915,070; Mar. 16; Sp. p. 2899; Gaz. vol. 140; p. 517.  
 Iron, torch, and portable light, Combined soldering-. A. Harf. No. 912,673; Feb. 16; Sp. p. 3400; Gaz. vol. 139; p. 610.  
 Ironing-board. G. W. Parrish. No. 910,227; Jan. 19; Sp. p. 3637; Gaz. vol. 138; p. 661.  
 Ironing-board. A. Paradis. No. 910,846; Jan. 26; Sp. p. 4935; Gaz. vol. 138; p. 891.  
 Ironing-board. W. J. Nelson. No. 912,319; Feb. 16; Sp. p. 2674; Gaz. vol. 139; p. 490.  
 Ironing-board. J. Kepple, Jr. No. 912,853; Feb. 16; Sp. p. 3804; Gaz. vol. 139; p. 670.  
 Ironing-board. A. Kenan. No. 914,956; Mar. 9; Sp. p. 2701; Gaz. vol. 140; p. 454.  
 Ironing-board. C. Held. No. 916,554; Mar. 30; Sp. p. 5907; Gaz. vol. 140; p. 1060.  
 Ironing-board. H. Braunt. No. 916,989; Apr. 6; Sp. p. 46; Gaz. vol. 141; p. 13.  
 Ironing-board. O. W. Mims. No. 919,055; Apr. 20; Sp. p. 4353; Gaz. vol. 141; p. 760.  
 Ironing-board. W. J. Kelly and P. J. Germain. No. 920,343; May 4; Sp. p. 514; Gaz. vol. 142; p. 82.  
 Ironing-board. S. A. Barber. No. 922,446; May 25; Sp. p. 4831; Gaz. vol. 142; p. 863.  
 Ironing-board. H. F. Knorr. No. 922,487; May 25; Sp. p. 493; Gaz. vol. 142; p. 876.  
 Ironing-board. G. F. and C. I. Wilson. No. 923,097; May 25; Sp. p. 6191; Gaz. vol. 142; p. 1073.  
 Ironing-board. W. J. Stevenson. No. 924,945; June 15; Sp. p. 3962; Gaz. vol. 143; p. 677.  
 Ironing-board. J. H. Hartzell. No. 927,237; July 6; Sp. p. 1111; Gaz. vol. 144; p. 180.  
 Ironing-board. F. M. Holmes and T. I. Swagerty. No. 927,408; July 6; Sp. p. 1414; Gaz. vol. 144; p. 235.  
 Ironing-board. D. H. Mather. No. 932,040; Aug. 24; Sp. p. 5143; Gaz. vol. 145; p. 878.  
 Ironing-board. M. R. Geyer. No. 932,854; Aug. 31; Sp. p. 6821; Gaz. vol. 145; p. 1171.  
 Ironing-board. A. G. Girard. No. 934,985; Sept. 21; Sp. p. 4043; Gaz. vol. 146; p. 702.  
 Ironing-board. M. L. and G. Bacon. No. 935,184; Sept. 28; Sp. p. 4445; Gaz. vol. 146; p. 792.  
 Ironing-board. J. Hovsepian. No. 936,132; Oct. 5; Sp. p. 1128; Gaz. vol. 147; p. 171.  
 Ironing-board. C. Paulsen. No. 937,639; Oct. 19; Sp. p. 4251; Gaz. vol. 147; p. 725.  
 Ironing-board. L. Stowe. No. 943,485; Dec. 14; Sp. p. 3113; Gaz. vol. 149; p. 525.  
 Ironing-board. J. C. Yeakel. No. 944,401; Dec. 28; Sp. p. 5076; Gaz. vol. 149; p. 893.  
 Ironing-board and step-ladder, Combined. V. D. Cram. No. 924,744; June 15; Sp. p. 3553; Gaz. vol. 143; p. 610.  
 Ironing-board attachment. A. J. Treat. No. 920,693; May 4; Sp. p. 1222; Gaz. vol. 142; p. 197.  
 Ironing-board cover. E. Stone. No. 941,430; Nov. 30; Sp. p. 6600; Gaz. vol. 148; p. 1119.  
 Ironing-board shirt-holding mechanism. R. W. Fowler. No. 937,785; Oct. 26; Sp. p. 4569; Gaz. vol. 147; p. 791.  
 Ironing-board, step-ladder, and bench, Combined. T. Druzbach. No. 932,452; Aug. 31; Sp. p. 5954; Gaz. vol. 145; p. 1038.

*Alphabetical list of inventions—Continued.*

- Ironing-boards, Clothes-support for. R. D. Wolf. No. 930,712; Aug. 10; Sp. p. 2239; Gaz. vol. 145; p. 389.
- Ironing-cabinet. G. T. Hardy. No. 934,807; Sept. 21; Sp. p. 3685; Gaz. vol. 146; p. 640.
- Ironing, folding, and shaping machine, Edge. P. H. Larson. No. 926,660; June 29; Sp. p. 7402; Gaz. vol. 143; p. 1306.
- Ironing-machine. O. W. Powell. No. 912,271; Feb. 9; Sp. p. 2535; Gaz. vol. 139; p. 435.
- Ironing-machine. T. A. Elphick. No. 912,450; Feb. 16; Sp. p. 2941; Gaz. vol. 139; p. 534.
- Ironing-machine. H. G. Grosse. No. 914,716; Mar. 9; Sp. p. 2239; Gaz. vol. 140; p. 376.
- Ironing-machine. G. L. Martin. No. 914,965; Mar. 9; Sp. p. 2714; Gaz. vol. 140; p. 457.
- Ironing-machine. G. F. Kuhnle. No. 919,033; Apr. 20; Sp. p. 4309; Gaz. vol. 141; p. 753.
- Ironing-machine. W. R. Hager. No. 920,949; May 11; Sp. p. 1753; Gaz. vol. 142; p. 311.
- Ironing-machine. Y. Kawakami. No. 921,120; May 11; Sp. p. 2092; Gaz. vol. 142; p. 369.
- Ironing-machine. B. A. Metcalf. No. 921,551; May 11; Sp. p. 2983; Gaz. vol. 142; p. 513.
- Ironing-machine. W. R. Hager. No. 924,769; June 15; Sp. p. 3603; Gaz. vol. 143; p. 618.
- Ironing-machine. A. Kreuter. No. 926,751; July 6; Sp. p. 93; Gaz. vol. 144; p. 15.
- Ironing-machine. A. Kreuter. No. 933,256; Sept. 7; Sp. p. 522; Gaz. vol. 146; p. 80.
- Ironing-machine. G. H. Spansail. No. 933,928; Sept. 14; Sp. p. 1967; Gaz. vol. 146; p. 324.
- Ironing-machine. D. Foon. No. 934,984; Sept. 21; Sp. p. 4042; Gaz. vol. 146; p. 702.
- Ironing machine, Collar-. J. T. Snelson. No. 921,906; May 18; Sp. p. 3736; Gaz. vol. 142; p. 659.
- Ironing-machines, Temperature-indicator for. J. Jorgenson. No. 934,733; Sept. 21; Sp. p. 3538; Gaz. vol. 146; p. 616.
- Ironing-press. F. Krapp. No. 913,296; Feb. 23; Sp. p. 4683; Gaz. vol. 139; p. 841.
- Ironing-press. W. Bartholomew. No. 940,660; Nov. 23; Sp. p. 4914; Gaz. vol. 148; p. 841.
- Ironing-table. F. C. Lloyd. No. 916,341; Mar. 23; Sp. p. 5428; Gaz. vol. 140; p. 964.
- Ironing-table. K. A. Darrow. No. 916,849; Mar. 30; Sp. p. 6443; Gaz. vol. 140; p. 1151.
- Ironing-table. J. A. Keck. No. 920,341; May 4; Sp. p. 511; Gaz. vol. 142; p. 81.
- Ironing-table. C. W. Dodsworth. No. 927,841; July 13; Sp. p. 2379; Gaz. vol. 144; p. 407.
- Ironing-table. W. T. Potter. No. 931,217; Aug. 17; Sp. p. 3367; Gaz. vol. 145; p. 585.
- Ironing-table. J. M. Pride and J. D. Davenport. No. 933,390; Sept. 7; Sp. p. 809; Gaz. vol. 146; p. 125.
- Ironing-table and sleeve-board, Combined folding. T. C. Krings. No. 933,568; Sept. 7; Sp. p. 1240; Gaz. vol. 146; p. 183.
- Ironing-table, Folding. J. P. Ruth. No. 910,960; Jan. 26; Sp. p. 5152; Gaz. vol. 138; p. 928.
- Ironing-table, Folding. A. H. Gray. No. 916,696; Mar. 30; Sp. p. 6169; Gaz. vol. 140; p. 1105.
- Ironing-table, Folding. C. A. Detwiler. No. 923,117; May 25; Sp. p. 6232; Gaz. vol. 142; p. 1080.
- Ironing-table, Folding. J. H. Hummer. No. 942,643; Dec. 7; Sp. p. 1274; Gaz. vol. 149; p. 208.
- Irrigating device. N. E. Austin. No. 938,204; Oct. 26; Sp. p. 5459; Gaz. vol. 147; p. 933.
- Irrigating-ditch screen. T. A. Powers. No. 944,907; Dec. 28; Sp. p. 6200; Gaz. vol. 149; p. 1066.
- Irrigating-ditches, Alarm for. H. I. Shotwell and W. McComb. No. 933,856; Sept. 14; Sp. p. 1826; Gaz. vol. 146; p. 302.
- Irrigating system. E. L. De Long. No. 915,162; Mar. 16; Sp. p. 3127; Gaz. vol. 140; p. 548.
- Irrigation-ditch outlet. W. H. Tucker. No. 930,903; Aug. 10; Sp. p. 2642; Gaz. vol. 145; p. 453.
- Irrigator having a constant temperature. E. de N. du Plantier. No. 922,810; May 25; Sp. p. 5584; Gaz. vol. 142; p. 981.
- Jack: See Bucket-jack; Car-jack; Engine-starting jack; Floor-jack; Flooring-jack; Hydraulic jack; Lamp-jack; Last-jack; Lifting-jack; Power-jack; Pump-jack; Scaffold-jack; Screw-jack; Shoe-machine jack; Shoe-supporting jack; Shoemaker's repair-jack; Smoke-jack; Telephone-jack; Telephone-switchboard connecting-jack; Vehicle-jack; Vehicle lifting-jack; Wagon-jack.
- Jack. J. W. Carlson. No. 909,364; Jan. 12; Sp. p. 1890; Gaz. vol. 138; p. 338.
- Jack. W. B. Templeton. No. 916,502; Mar. 30; Sp. p. 5794; Gaz. vol. 140; p. 1043.
- Jack. W. B. McCain. No. 944,629; Dec. 28; Sp. p. 5606; Gaz. vol. 149; p. 973.
- Jack. D. F. Vaughan. No. 944,706; Dec. 28; Sp. p. 5761; Gaz. vol. 149; p. 997.
- Jack and locking means therefor. J. A. Gummin. No. 944,962; Dec. 28; Sp. p. 6301; Gaz. vol. 149; p. 1083.
- Jack brace, Wrench-. W. B. Daugherty. No. 917,928; Apr. 13; Sp. p. 1954; Gaz. vol. 141; p. 355.
- Jack-screw, Shifting. S. M. Dunlap. No. 942,170; Dec. 7; Sp. p. 315; Gaz. vol. 149; p. 48.
- Jack-spoils, Holding means for. L. T. Houghton. No. 925,811; June 22; Sp. p. 5717; Gaz. vol. 143; p. 990.
- Jack, wire-stretcher, and post-puller, Lifting-. L. T. and T. H. Goolsby. No. 913,281; Feb. 23; Sp. p. 4654; Gaz. vol. 139; p. 835.
- Jacket-can. F. Rudolph. No. 925,135; June 15; Sp. p. 4347; Gaz. vol. 143; p. 741.
- Jacket, Lady's. J. F. Goodenow. No. 930,661; Aug. 10; Sp. p. 2137; Gaz. vol. 145; p. 373.
- Jacket, Pneumatic life-. P. B. Gaudet. No. 931,009; Aug. 10; Sp. p. 2893; Gaz. vol. 145; p. 486.
- Jacquard-cards, Machine for repeating. V. Royle. No. 930,694; Aug. 10; Sp. p. 2195; Gaz. vol. 145; p. 383.
- Jacquard connection. W. R. Scott. No. 921,288; May 11; Sp. p. 2446; Gaz. vol. 142; p. 426.
- Jacquard-machine, Double-lift open-shed. E. Trachsler. No. 931,975; Aug. 24; Sp. p. 4999; Gaz. vol. 145; p. 856.
- Jacquard mechanism. J. A. Groebli. No. 924,454; June 8; Sp. p. 2924; Gaz. vol. 143; p. 479.
- Jacquards without pattern-cards, Mechanism for electrically operating. A. Regal. No. 935,818; Oct. 5; Sp. p. 470; Gaz. vol. 147; p. 67.
- Jam-dolly. A. Ricketts. No. 922,514; May 25; Sp. p. 4973; Gaz. vol. 142; p. 885.
- Jam, sugar, or the like on or in biscuits and like confections, Apparatus for depositing or dropping. R. McVitie and A. Grant. No. 921,874; May 18; Sp. p. 3678; Gaz. vol. 142; p. 648.
- Jar: See Battery-jar; Cracker-jar; Fruit-jar; Storage-battery jar; Well-drill jar.
- Jar. G. T. Barr, Jr. No. 931,672; Aug. 17; Sp. p. 4294; Gaz. vol. 145; p. 734.
- Jar and bottle closure. E. Hoffman. No. 942,141; Dec. 7; Sp. p. 255; Gaz. vol. 149; p. 38.
- Jar, can, &c., adjustable measuring-cover. J. Seiffert. No. 937,723; Oct. 19; Sp. p. 4435; Gaz. vol. 147; p. 751.
- Jar cap, Milk-. W. B. Hay. No. 932,779; Aug. 31; Sp. p. 6689; Gaz. vol. 145; p. 1148.
- Jar cap or closure. E. D. Schmitt. No. 933,347; Sept. 7; Sp. p. 707; Gaz. vol. 146; p. 110.
- Jar-closure. J. L. Kivlan. No. 913,214; Feb. 23; Sp. p. 4515; Gaz. vol. 139; p. 813.
- Jar-closure. J. E. Barranger. No. 922,240; May 18; Sp. p. 4417; Gaz. vol. 142; p. 767.
- Jar-closure. J. E. Barranger. No. 928,098; July 13; Sp. p. 2879; Gaz. vol. 144; p. 492.
- Jar-closure. C. C. Parker. No. 934,832; Sept. 21; Sp. p. 3734; Gaz. vol. 146; p. 649.
- Jar-closure. B. F. Wilson. No. 934,868; Sept. 21; Sp. p. 3804; Gaz. vol. 146; p. 670.
- Jar-closure. E. W. Pearce. No. 935,321; Sept. 28; Sp. p. 4719; Gaz. vol. 146; p. 837.
- Jar-closure. G. Henderson. No. 941,417; Nov. 30; Sp. p. 6574; Gaz. vol. 148; p. 1115.
- Jar-closure. J. Schies. No. 941,538; Nov. 30; Sp. p. 6816; Gaz. vol. 148; p. 1154.
- Jar closure or cover and the like. J. W. Moody. No. 943,951; Dec. 21; Sp. p. 4123; Gaz. vol. 149; p. 715.
- Jar closure or fastener. E. Welker and E. H. Long. No. 927,390; July 6; Sp. p. 1373; Gaz. vol. 144; p. 228.
- Jar-closure ring. G. H. Womelsdorf. No. 937,500; Oct. 19; Sp. p. 3994; Gaz. vol. 147; p. 677.
- Jar-cover. T. I. Grove. No. 918,315; Apr. 13; Sp. p. 2749; Gaz. vol. 141; p. 487.
- Jar-cover. W. Strachan and N. H. Campbell. No. 924,401; June 8; Sp. p. 2834; Gaz. vol. 143; p. 462.
- Jar cover-fastening. W. A. Bostwick. No. 911,289; Feb. 2; Sp. p. 530; Gaz. vol. 139; p. 90.
- Jar-holder. J. L. Dahlquist. No. 922,097; May 18; Sp. p. 4126; Gaz. vol. 142; p. 721.
- Jar-holder. W. J. McCallum. No. 936,927; Oct. 12; Sp. p. 2753; Gaz. vol. 147; p. 460.
- Jar-holder. J. Twhig. No. 942,602; Dec. 7; Sp. p. 1190; Gaz. vol. 149; p. 194.
- Jar holder, Fruit-. J. G. Dutschke. No. 925,315; June 15; Sp. p. 4680; Gaz. vol. 143; p. 799.
- Jar-holding device. H. W. Denny. No. 908,450; Jan. 5; Sp. p. 35; Gaz. vol. 138; p. 7.
- Jar-opener. M. C. Dearing. No. 914,119; Mar. 2; Sp. p. 992; Gaz. vol. 140; p. 157.
- Jar-opener. C. A. Tolman. No. 934,237; Sept. 14; Sp. p. 2579; Gaz. vol. 146; p. 427.
- Jar-opener. J. H. Smith. No. 938,284; Oct. 26; Sp. p. 5609; Gaz. vol. 147; p. 960.
- Jar or bottle stopper. A. P. Lee. No. 914,960; Mar. 9; Sp. p. 2707; Gaz. vol. 140; p. 455.
- Jar or can closure. A. V. Oldham. No. 932,892; Aug. 31; Sp. p. 6891; Gaz. vol. 145; p. 1183.
- Jar or receptacle. R. H. Wolff. No. 943,585; Dec. 14; Sp. p. 3309; Gaz. vol. 149; p. 558.
- Jar or vessel closure. G. Staunton. No. 934,103; Sept. 14; Sp. p. 2315; Gaz. vol. 146; p. 379.
- Jar-tray. W. A. Lorenz. No. 938,675; Nov. 2; Sp. p. 513; Gaz. vol. 148; p. 78.
- Jar-wrench. N. J. Keck and R. E. Lewis. No. 931,765; Aug. 24; Sp. p. 4543; Gaz. vol. 145; p. 789.
- Jar wrench, Fruit-. W. G. Niemann. No. 937,636; Oct. 19; Sp. p. 4247; Gaz. vol. 147; p. 724.
- Jars and the like, Closure for. A. Schram. No. 933,122; Sept. 7; Sp. p. 175; Gaz. vol. 146; p. 30.
- Jars and the like, Combined cover and handle for milk-. J. L. Kivlan. No. 920,068; Apr. 27; Sp. p. 6649; Gaz. vol. 141; p. 1131.
- Jars, Closure for preserving-. C. Bader. No. 910,347; Jan. 19; Sp. p. 3917; Gaz. vol. 138; p. 704.
- Jars, Device for releasing the caps or covers for glass fruit-. G. E. Searing. No. 936,575; Oct. 12; Sp. p. 2058; Gaz. vol. 147; p. 341.
- Jars, Lifting-tongs for fruit-. P. O. Kafke. No. 911,996; Feb. 9; Sp. p. 1989; Gaz. vol. 139; p. 348.
- Jars, Machine for applying metal caps or closures to. E. D. Schmitt. No. 933,120; Sept. 7; Sp. p. 171; Gaz. vol. 146; p. 29.
- Jarring-machine. W. Lewis. (Reissue.) No. 13,012; Aug. 17; Sp. p. 4419; Gaz. vol. 145; p. 750.



*Alphabetical list of inventions—Continued.*

- Jaw tool, Pivoted-. G. H. Powell. No. 938,334; Oct. 26; Sp. p. 5732; Gaz. vol. 147; p. 976.
- Jet-condenser. W. B. Potter. No. 912,167; Feb. 9; Sp. p. 2320; Gaz. vol. 139; p. 402.
- Jets, Construction of. A. G. Ionides. No. 944,440; Dec. 28; Sp. p. 5165; Gaz. vol. 149; p. 906.
- Jetting-drill. W. Adams. No. 931,021; Aug. 17; Sp. p. 2931; Gaz. vol. 145; p. 519.
- Jetty or jetty-wall. A. E. Smith. No. 919,788; Apr. 27; Sp. p. 6044; Gaz. vol. 141; p. 1039.
- Jewel fastening, Ear-. C. Weller. No. 927,199; July 6; Sp. p. 1034; Gaz. vol. 144; p. 167.
- Jewel-setter's tool. F. C. Widmann. No. 941,831; Nov. 30; Sp. p. 7457; Gaz. vol. 148; p. 1253.
- Jewel-setting. H. Hess. No. 931,306; Aug. 17; Sp. p. 3580; Gaz. vol. 145; p. 617.
- Jewelry. F. E. Dickey. No. 915,834; Mar. 23; Sp. p. 4497; Gaz. vol. 140; p. 798.
- Jewelry. H. Tropin. No. 922,212; May 18; Sp. p. 4359; Gaz. vol. 142; p. 758.
- Jewelry. J. L. Herzog. No. 926,741; July 6; Sp. p. 74; Gaz. vol. 144; p. 11.
- Jewelry. L. Adler. No. 943,291; Dec. 14; Sp. p. 2714; Gaz. vol. 149; p. 458.
- Jewelry arranged for holding interchangeable gems or stones. C. H. Allen. No. 937,502; Oct. 19; Sp. p. 3996; Gaz. vol. 147; p. 678.
- Jewelry, Article of. J. L. Herzog. No. 917,604; Apr. 6; Sp. p. 1249; Gaz. vol. 141; p. 220.
- Jewelry-box. L. E. Brown. No. 938,964; Nov. 2; Sp. p. 1117; Gaz. vol. 143; p. 179.
- Jewelry-box. J. R. Sundee. No. 941,741; Nov. 30; Sp. p. 7244; Gaz. vol. 148; p. 1222.
- Jewelry-catch, Safety. A. O. Burgess. No. 927,827; July 13; Sp. p. 2335; Gaz. vol. 144; p. 402.
- Jewelry-clasp. A. J. Pollock. No. 926,602; June 29; Sp. p. 7291; Gaz. vol. 143; p. 1287.
- Jewelry-fastener. N. Lieberfreund. No. 921,421; May 11; Sp. p. 2735; Gaz. vol. 142; p. 470.
- Jewelry safety-catch. J. V. Christl. No. 937,988; Oct. 26; Sp. p. 4979; Gaz. vol. 147; p. 858.
- Jewelry, Safety-catch for stick-pins, and similar articles of. W. I. Macomber. No. 914,150; Mar. 2; Sp. p. 1052; Gaz. vol. 140; p. 167.
- Jig. G. B. Shipley. No. 919,258; Apr. 20; Sp. p. 4911; Gaz. vol. 141; p. 824.
- Jig for braces and bits. M. F. Roberts. No. 917,488; Apr. 6; Sp. p. 1041; Gaz. vol. 141; p. 182.
- Jig for drilling and like operations. E. L. Richards. No. 917,152; Apr. 6; Sp. p. 399; Gaz. vol. 141; p. 69.
- Jockey-stick. J. A. Lillie. No. 921,128; May 11; Sp. p. 2109; Gaz. vol. 142; p. 372.
- Joint. See Ball-and-socket flexible joint; Bed-joint; Belt-joint; Cleat-joint; Culvert flexible joint; Electrical-device joint; Fixture-joint; Floor-covering joint; Frame-joint; Furniture-joint; Hinge-joint; Insulated joint; Insulating joint; Lap-joint; Lap-joint; Limb knee-joint; Logging swivel-joint; Pipe-joint; Pipe or culvert joint; Pipe slip-joint; Rail-joint; Rail fished joint; Railway-rail joint; Railway tie and rail joint; Roofing-joint; Rule-joint; Sash crossing-bar joint; Stovepipe-joint; Track-joint; Tube-joint; Universal joint; Window-pane joint.
- Joint. H. E. Reeve. No. 918,198; Apr. 13; Sp. p. 2510; Gaz. vol. 141; p. 448.
- Joint. E. Berliner. No. 926,974; July 6; Sp. p. 556; Gaz. vol. 144; p. 91.
- Joint-bar. E. A. Sullivan. No. 944,703; Dec. 28; Sp. p. 5756; Gaz. vol. 149; p. 996.
- Joint chair, Railway-. D. C. Miller. No. 914,593; Mar. 9; Sp. p. 1971; Gaz. vol. 140; p. 336.
- Joint connection, Ground-. J. C. Vogel. No. 944,752; Dec. 28; Sp. p. 5882; Gaz. vol. 149; p. 1013.
- Joint connection, Knuckle-. M. Kelly. No. 927,978; July 13; Sp. p. 2659; Gaz. vol. 144; p. 452.
- Joint connection, Universal-. J. B. Jourdain and L. Dextraze. No. 941,928; Nov. 30; Sp. p. 7644; Gaz. vol. 148; p. 1287.
- Joint coupling, Universal-. F. Panse. No. 924,187; June 8; Sp. p. 2382; Gaz. vol. 143; p. 390.
- Joint device, Expansion-. F. Seiffert. No. 924,279; June 8; Sp. p. 2586; Gaz. vol. 143; p. 421.
- Joint-fastener. M. W. Wintermute. No. 942,693; Dec. 7; Sp. p. 1365; Gaz. vol. 149; p. 224.
- Joints, Making Interlocking. M. Guett. No. 935,970; Oct. 5; Sp. p. 789; Gaz. vol. 147; p. 117.
- Joints, Making tenon-. M. Hofheimer. No. 917,433; Apr. 6; Sp. p. 947; Gaz. vol. 141; p. 165.
- Joints, Making wood-. M. Hofheimer. No. 917,432; Apr. 6; Sp. p. 945; Gaz. vol. 141; p. 164.
- Jointing-machine. J. R. Thomas and P. A. Solem. No. 912,918; Feb. 16; Sp. p. 3911; Gaz. vol. 139; p. 689.
- Joiner. J. Herzog. No. 919,351; Apr. 27; Sp. p. 5128; Gaz. vol. 141; p. 890.
- Joiner and raker, Combined. J. V. Close. No. 918,967; Apr. 20; Sp. p. 4192; Gaz. vol. 141; p. 732.
- Jointer feeding device. H. B. Ross and J. P. Gates. No. 913,852; Mar. 2; Sp. p. 365; Gaz. vol. 140; p. 62.
- Jointer's adjustable table. C. F. Haldeman. No. 937,240; Oct. 19; Sp. p. 3420; Gaz. vol. 147; p. 592.
- Joist-bridging. P. E. Bertram. No. 918,949; Apr. 20; Sp. p. 4156; Gaz. vol. 141; p. 726.
- Joist-hanger. J. Tuteur. No. 922,215; May 18; Sp. p. 4368; Gaz. vol. 142; p. 759.
- Joist-hanger. H. C. Seipp. No. 924,842; June 15; Sp. p. 3755; Gaz. vol. 143; p. 643.
- Joist-hanger. H. C. Seipp. No. 943,847; Dec. 21; Sp. p. 3902; Gaz. vol. 149; p. 678.
- Journal-bearing. W. J. Fisher. No. 911,224; Feb. 2; Sp. p. 395; Gaz. vol. 139; p. 69.
- Journal-bearing. A. A. Lanau. No. 918,453; Apr. 13; Sp. p. 3019; Gaz. vol. 141; p. 531.
- Journal-bearing. E. L. and W. S. Sharpneck. No. 924,843; June 15; Sp. p. 3758; Gaz. vol. 143; p. 643.
- Journal-bearing. L. J. Aldridge. No. 927,471; July 13; Sp. p. 1578; Gaz. vol. 144; p. 284.
- Journal-bearing. H. Hess. No. 931,924; Aug. 24; Sp. p. 4893; Gaz. vol. 145; p. 839.
- Journal-bearing. F. Latulip. No. 934,551; Sept. 21; Sp. p. 3175; Gaz. vol. 146; p. 554.
- Journal-bearing. J. C. Heron and A. C. Deverell. No. 935,022; Sept. 28; Sp. p. 4114; Gaz. vol. 146; p. 737.
- Journal-bearing, Antifriction. O. C. Knipe. No. 922,154; May 18; Sp. p. 4231; Gaz. vol. 142; p. 739.
- Journal-bearing, Antifriction. W. V. Seiffert. No. 934,021; Sept. 14; Sp. p. 2141; Gaz. vol. 146; p. 354.
- Journal-bearing for revolvable disks, Dust-proof. F. Broman. No. 942,539; Dec. 7; Sp. p. 1073; Gaz. vol. 149; p. 174.
- Journal-bearing, Self-oiling. F. F. Landis. No. 927,361; July 6; Sp. p. 1317; Gaz. vol. 144; p. 219.
- Journal-bearings, Machine for grooving. F. Raymond. No. 930,988; Aug. 10; Sp. p. 2834; Gaz. vol. 145; p. 479.
- Journal-box. G. A. Woodman. No. 914,326; Mar. 2; Sp. p. 1429; Gaz. vol. 140; p. 221.
- Journal-box. P. A. Campbell. No. 922,083; May 18; Sp. p. 4099; Gaz. vol. 142; p. 716.
- Journal-box. W. M. Duncan. No. 934,052; Sept. 14; Sp. p. 2196; Gaz. vol. 146; p. 363.
- Journal-box. P. J. Harrigan. No. 936,126; Oct. 5; Sp. p. 1110; Gaz. vol. 147; p. 168.
- Journal-box. J. G. Smith. No. 936,675; Oct. 12; Sp. p. 2265; Gaz. vol. 147; p. 377.
- Journal-box. T. Hirtzler. No. 937,603; Oct. 19; Sp. p. 4183; Gaz. vol. 147; p. 712.
- Journal-box. G. Frowen. No. 938,841; Nov. 2; Sp. p. 838; Gaz. vol. 148; p. 135.
- Journal-box. L. K. Smith. No. 941,661; Nov. 30; Sp. p. 7066; Gaz. vol. 148; p. 1194.
- Journal-box, Adjustable. P. J. Joecken. No. 936,455; Oct. 12; Sp. p. 1809; Gaz. vol. 147; p. 301.
- Journal-box dust-guard. G. L. Mansfield. No. 911,313; Feb. 2; Sp. p. 573; Gaz. vol. 139; p. 98.
- Journal-box dust-guard. A. W. Neudeck. No. 917,963; Apr. 13; Sp. p. 2019; Gaz. vol. 141; p. 367.
- Journal-box dust-guard. G. L. Mansfield. No. 932,484; Aug. 31; Sp. p. 6040; Gaz. vol. 145; p. 1048.
- Journal-box for oil-pumping powers. H. E. Braymer. No. 929,544; July 27; Sp. p. 5864; Gaz. vol. 144; p. 1030.
- Journal-box for side-head frames. W. H. Winborne. No. 916,242; Mar. 23; Sp. p. 5262; Gaz. vol. 140; p. 930.
- Journal-box lid. A. O. Buckius, Jr. No. 923,766; June 1; Sp. p. 1441; Gaz. vol. 143; p. 223.
- Journal-box lid. C. A. Lindström. No. 931,442; Aug. 17; Sp. p. 3848; Gaz. vol. 145; p. 663.
- Journal-box-lubricating device. J. G. Smith. No. 914,524; Mar. 9; Sp. p. 1835; Gaz. vol. 140; p. 312.
- Journal-box, Railway. E. G. Caghey. No. 913,360; Feb. 23; Sp. p. 4816; Gaz. vol. 139; p. 363.
- Journal-box, Safety. W. N. Tanner. No. 923,462; June 1; Sp. p. 788; Gaz. vol. 143; p. 117.
- Journal-box, Safety. G. B. Shipley. No. 923,718; June 1; Sp. p. 1330; Gaz. vol. 143; p. 207.
- Journal-box torsion-lid. T. H. Symington. No. 938,523; Nov. 2; Sp. p. 185; Gaz. vol. 148; p. 26.
- Journal-box waste-supporting attachment. R. A. Billingham. No. 913,458; Feb. 23; Sp. p. 5017; Gaz. vol. 139; p. 896.
- Journal-boxes, Means for packing waste in. L. C. Condit. No. 936,704; Oct. 12; Sp. p. 2324; Gaz. vol. 147; p. 386.
- Journal-boxes, Waste-supporting attachment for. R. A. Billingham. No. 922,249; May 18; Sp. p. 4437; Gaz. vol. 142; p. 770.
- Journal-brasses, Device for raising. G. W. Leavitt. No. 910,830; Jan. 26; Sp. p. 4911; Gaz. vol. 138; p. 886.
- Journal-lubricator. I. E. Farr. No. 926,476; June 29; Sp. p. 7058; Gaz. vol. 143; p. 1244.
- Journal lubricator, Car-axle-. J. C. Nichol. No. 944,375; Dec. 28; Sp. p. 5022; Gaz. vol. 149; p. 883.
- Juice extraction by diffusion, Continuous. K. Philipp. No. 934,349; Sept. 14; Sp. p. 2782; Gaz. vol. 146; p. 463.
- Junction-box. W. A. Charters and E. G. Bardwell. No. 911,293; Feb. 2; Sp. p. 537; Gaz. vol. 139; p. 92.
- Junction-box. E. T. Greenfield. No. 916,436; Mar. 30; Sp. p. 5630; Gaz. vol. 140; p. 1020.
- Junction-box. C. W. Davis. No. 916,537; Mar. 30; Sp. p. 5871; Gaz. vol. 140; p. 1054.
- Junction, wall, floor, or other box. D. Conlan, Jr. No. 936,705; Oct. 12; Sp. p. 2325; Gaz. vol. 147; p. 386.
- Jury and jury-frame for facilitating orthopedic treatment. G. W. Haas. No. 913,127; Feb. 23; Sp. p. 4339; Gaz. vol. 139; p. 785.
- Justifying mechanism. B. F. Bellows. No. 921,063; May 11; Sp. p. 1965; Gaz. vol. 142; p. 349.
- Keel-block. H. Smoke. No. 938,676; Oct. 12; Sp. p. 2266; Gaz. vol. 147; p. 877.
- Keel, Inverted. A. L. Reuss. No. 917,896; Apr. 13; Sp. p. 1881; Gaz. vol. 141; p. 343.
- Keg, barrel, and similar receptacle. C. H. Mock. No. 910,302; Jan. 19; Sp. p. 3823; Gaz. vol. 138; p. 688.
- Keg, Metallic beer-. K. A. Zimmerer. No. 933,520; Sept. 7; Sp. p. 1160; Gaz. vol. 146; p. 167.

*Alphabetical list of inventions—Continued.*

- Keg, Nail-. P. P. Hansen. No. 919,857; Apr. 27; Sp. p. 6224; Gaz. vol. 141; p. 1062.  
 Keg or cask. O. R. Yeazell. No. 944,164; Dec. 21; Sp. p. 4583; Gaz. vol. 149; p. 786.  
 Keg, Powder-. R. J. Lore. No. 918,875; Apr. 20; Sp. p. 3989; Gaz. vol. 141; p. 701.  
 Keg, Powder-. M. C. O'Laughlin. No. 921,880; May 18; Sp. p. 3686; Gaz. vol. 142; p. 649.  
 Kennel. J. S. Minion. No. 920,975; May 11; Sp. p. 1796; Gaz. vol. 142; p. 318.  
 Keratin, Producing digestible substances from. C. Neuberg. No. 926,999; July 6; Sp. p. 599; Gaz. vol. 144; p. 99.  
 Kerosene-burner. L. T. Kuehl. No. 917,460; Apr. 6; Sp. p. 993; Gaz. vol. 141; p. 173.  
 Kerosene-burner. H. Lemp. No. 926,883; July 6; Sp. p. 369; Gaz. vol. 144; p. 59.  
 Ketone sulfoxylate and making same. A. Stock. No. 909,703; Jan. 12; Sp. p. 2560; Gaz. vol. 138; p. 454.  
 Kettle and pan lifter. F. and A. L. Miller. No. 932,306; Aug. 24; Sp. p. 5669; Gaz. vol. 145; p. 967.  
 Kettle-cover. C. J. Schmidt. No. 922,341; May 18; Sp. p. 4597; Gaz. vol. 142; p. 799.  
 Kettle-cover. D. P. Foster. No. 932,774; Aug. 31; Sp. p. 6680; Gaz. vol. 145; p. 1146.  
 Kettle-hanger. H. C. Cramer. No. 936,093; Oct. 5; Sp. p. 1040; Gaz. vol. 147; p. 158.  
 Kettle safety filling device, Tea-. G. T. Bohan. No. 933,052; Sept. 7; Sp. p. 20; Gaz. vol. 146; p. 5.  
 Kettle, Steam-. E. Kemp. No. 914,051; Mar. 2; Sp. p. 854; Gaz. vol. 140; p. 132.  
 Kettle-still. A. W. Blunden. No. 911,467; Feb. 2; Sp. p. 840; Gaz. vol. 139; p. 148.  
 Kettle stirring apparatus. M. E. Rickman. No. 915,310; Mar. 16; Sp. p. 3413; Gaz. vol. 140; p. 596.  
 Key: See Brake-shoe key; Door-key; Lock-key; Operator's key; Party-line indicating-key; Ringing-key; Selective ringing-key; Self-fitting key; Switch-key; Telegraph-key; Telegraphic key; Telephone-key; Violin-key.  
 Key. J. Blaszczyk. No. 939,184; Nov. 2; Sp. p. 1572; Gaz. vol. 148; p. 255.  
 Key, Bath-house. A. Pusterla. No. 917,894; Apr. 13; Sp. p. 1878; Gaz. vol. 141; p. 342.  
 Key, Cotter-. F. S. McWhorter. No. 919,925; Apr. 27; Sp. p. 6348; Gaz. vol. 141; p. 1085.  
 Key-cutting machine. W. F. Billings. No. 943,806; Dec. 21; Sp. p. 3819; Gaz. vol. 149; p. 664.  
 Key-fastener. C. B. Keith. No. 914,286; Mar. 2; Sp. p. 1344; Gaz. vol. 140; p. 208.  
 Key-fastener. E. J. Pepper. No. 919,941; Apr. 27; Sp. p. 6377; Gaz. vol. 141; p. 1089.  
 Key-fastener. W. Curlett. No. 927,835; July 13; Sp. p. 2364; Gaz. vol. 144; p. 405.  
 Key-fastener. E. J. Ripley. No. 929,495; July 27; Sp. p. 5779; Gaz. vol. 144; p. 1013.  
 Key-fastener. W. A. Loveland. No. 939,607; Nov. 9; Sp. p. 2577; Gaz. vol. 148; p. 423.  
 Key-fastener. P. J. Ryan. No. 942,753; Dec. 7; Sp. p. 1488; Gaz. vol. 149; p. 244.  
 Key-holding device. J. P. Huider. No. 944,037; Dec. 21; Sp. p. 4313; Gaz. vol. 149; p. 743.  
 Key-hook. N. L. Thomas. No. 928,006; July 13; Sp. p. 2709; Gaz. vol. 144; p. 462.  
 Key-receptacle. T. Robinson. No. 926,963; July 6; Sp. p. 535; Gaz. vol. 144; p. 87.  
 Key-retainer. A. I. Jacobs. No. 926,491; June 29; Sp. p. 7082; Gaz. vol. 143; p. 1249.  
 Key-retaining device. A. Guindon and J. Tyson. No. 935,623; Sept. 28; Sp. p. 5340; Gaz. vol. 146; p. 937.  
 Key-ring. G. J. Kirby. No. 932,787; Aug. 31; Sp. p. 6704; Gaz. vol. 145; p. 1150.  
 Key-seating attachment. A. R. Murray. No. 910,841; Jan. 26; Sp. p. 4929; Gaz. vol. 138; p. 890.  
 Key-socket, Electrical. C. D. Platt. No. 920,179; May 4; Sp. p. 171; Gaz. vol. 142; p. 27.  
 Key-socket switch. H. Hubbell. No. 921,839; May 18; Sp. p. 3613; Gaz. vol. 142; p. 637.  
 Key, Wedge-. C. P. Tate. No. 916,219; Mar. 23; Sp. p. 5205; Gaz. vol. 140; p. 922.  
 Keyboard instrument, Mechanically-played. W. Pape. No. 919,295; Apr. 20; Sp. p. 4998; Gaz. vol. 141; p. 837.  
 Keyboard, Practice-. A. J. Daniel. No. 921,806; May 18; Sp. p. 3526; Gaz. vol. 142; p. 626.  
 Keyboard-transmitter for Morse and other telegraphic codes. P. B. Delany. No. 918,291; Apr. 13; Sp. p. 2704; Gaz. vol. 141; p. 479.  
 Keyhole-guard. R. J. Copeland. No. 924,321; June 8; Sp. p. 2679; Gaz. vol. 143; p. 436.  
 Keyhole-illuminating device. J. D. Hardin and J. B. de Saussure. No. 941,576; Nov. 30; Sp. p. 6889; Gaz. vol. 148; p. 1166.  
 Keyhole-plug and guard therefor. C. S. Batdorf. No. 942,537; Dec. 7; Sp. p. 1068; Gaz. vol. 149; p. 173.  
 Keyhole-stop. B. Hellman. No. 925,101; June 15; Sp. p. 4286; Gaz. vol. 143; p. 730.  
 Keyhole-stop. B. Hellman. No. 929,850; Aug. 3; Sp. p. 486; Gaz. vol. 145; p. 77.  
 Keyless socket. C. D. Platt. No. 941,811; Nov. 30; Sp. p. 7408; Gaz. vol. 148; p. 1245.  
 Keyless socket. H. Hubbell. No. 943,076; Dec. 14; Sp. p. 2278; Gaz. vol. 149; p. 386.  
 Kiln: See Bone-black kiln; Brick-kiln; Cement-kiln; Dry-kiln; Electric kiln; Gas-kiln; Limekiln; Malt-kiln; Rotary kiln.  
 Kiln. J. E. Kennedy. No. 911,658; Feb. 9; Sp. p. 1269; Gaz. vol. 139; p. 238.  
 Kiln. G. E. Snowden. No. 916,498; Mar. 30; Sp. p. 5786; Gaz. vol. 140; p. 1041.  
 Kiln. C. A. Wenborne. No. 918,621; Apr. 20; Sp. p. 3403; Gaz. vol. 141; p. 615.  
 Kiln. F. Macarthy. No. 919,902; Apr. 27; Sp. p. 6305; Gaz. vol. 141; p. 1077.  
 Kiln. R. W. P. Horn. No. 929,765; Aug. 3; Sp. p. 281; Gaz. vol. 145; p. 49.  
 Kiln. A. E. Truesdell. No. 930,506; Aug. 10; Sp. p. 1779; Gaz. vol. 145; p. 320.  
 Kiln. G. Pierboni. No. 937,644; Oct. 19; Sp. p. 4257; Gaz. vol. 147; p. 726.  
 Kiln. C. A. Matcham. No. 939,049; Nov. 2; Sp. p. 1285; Gaz. vol. 148; p. 207.  
 Kiln. A. H. Yoder. No. 944,304; Dec. 28; Sp. p. 4873; Gaz. vol. 149; p. 853.  
 Kiln, &c., burner, Cement-. W. H. Harding. No. 926,561; June 29; Sp. p. 7200; Gaz. vol. 143; p. 1273.  
 Kiln chain-tension device, Sintering. C. H. Fettel. No. 912,550; Feb. 16; Sp. p. 3164; Gaz. vol. 139; p. 567.  
 Kiln with generator-gas firing, Shaft-. E. Schmatolla. No. 917,667; Apr. 6; Sp. p. 1365; Gaz. vol. 141; p. 241.  
 Kilns, Disintegrating and removing annular salamanders in nodulizing-. A. Bräutigam. No. 936,981; Oct. 12; Sp. p. 2858; Gaz. vol. 147; p. 477.  
 Kilns, Disintegrating and removing annular salamanders in nodulizing-. A. Bräutigam. (Reissue.) No. 13,062; Dec. 28; Sp. p. 6409; Gaz. vol. 149; p. 1099.  
 Kinetograph. H. J. Crudge. No. 912,365; Feb. 16; Sp. p. 2769; Gaz. vol. 139; p. 504.  
 Kinetograph and like instrument. E. A. Ivatts. No. 939,135; Nov. 2; Sp. p. 1454; Gaz. vol. 148; p. 237.  
 Kinetograph apparatus. R. A. Fauconnet. No. 911,710; Feb. 9; Sp. p. 1370; Gaz. vol. 139; p. 255.  
 Kinetograph apparatus, Driving mechanism for. C. Rossi. No. 935,167; Sept. 28; Sp. p. 4411; Gaz. vol. 146; p. 787.  
 Kinetograph apparatus for the production of colored pictures. G. A. Smith. No. 941,960; Nov. 30; Sp. p. 7705; Gaz. vol. 148; p. 1298.  
 Kinetograph feed mechanism. C. Urban. No. 934,242; Sept. 14; Sp. p. 2588; Gaz. vol. 146; p. 428.  
 Kinetographs and talking-machines, Checking apparatus for synchronously-running. J. Greenbaum. No. 923,511; June 1; Sp. p. 888; Gaz. vol. 143; p. 135.  
 Kinetographic apparatus. W. Friese-Greene. No. 937,367; Oct. 19; Sp. p. 3672; Gaz. vol. 147; p. 632.  
 Kinetographic films, Machine for coloring. E. A. Ivatts. No. 923,432; June 1; Sp. p. 720; Gaz. vol. 143; p. 107.  
 Kinetographic apparatus. C. A. Lumière. No. 922,302; May 18; Sp. p. 4529; Gaz. vol. 142; p. 787.  
 Kinetoscope. C. J. Lang. No. 912,137; Feb. 9; Sp. p. 2269; Gaz. vol. 139; p. 393.  
 Kinetoscope. J. Keller. No. 914,729; Mar. 9; Sp. p. 2265; Gaz. vol. 140; p. 380.  
 Kinetoscope. A. C. Roebuck. No. 927,875; July 13; Sp. p. 2442; Gaz. vol. 144; p. 417.  
 Kinetoscope. E. M. Wooden. No. 929,743; Aug. 3; Sp. p. 225; Gaz. vol. 145; p. 39.  
 Kinetoscope. E. L. Aiken. No. 937,746; Oct. 26; Sp. p. 4475; Gaz. vol. 147; p. 777.  
 Kinetoscope. A. C. Roebuck. No. 939,634; Nov. 9; Sp. p. 2630; Gaz. vol. 148; p. 433.  
 Kinetoscope. J. J. Fink and J. Fletcher. No. 940,275; Nov. 16; Sp. p. 4044; Gaz. vol. 148; p. 687.  
 Kinetoscope, Continuous-film. C. B. Gillespie. No. 921,537; May 11; Sp. p. 2957; Gaz. vol. 142; p. 609.  
 Kinetoscope, Continuous-film. C. B. Gillespie. No. 928,443; July 20; Sp. p. 3636; Gaz. vol. 144; p. 540.  
 Kinetoscope dissolving-shutter. J. H. Crosier. No. 919,324; Apr. 27; Sp. p. 5076; Gaz. vol. 141; p. 881.  
 Kinetoscope, &c., film-winding mechanism. H. K. Sandell. No. 916,788; Mar. 30; Sp. p. 6327; Gaz. vol. 140; p. 1130.  
 Kinetoscopic apparatus. J. E. Lagergren. No. 939,274; Nov. 9; Sp. p. 1794; Gaz. vol. 148; p. 310.  
 Kitchen and other uses, Combined solid-fuel and gas range for. C. H. Miller. No. 915,987; Mar. 23; Sp. p. 4788; Gaz. vol. 140; p. 846.  
 Kitchen-frame. I. Hirsch. No. 929,220; July 27; Sp. p. 5206; Gaz. vol. 144; p. 923.  
 Kitchen implement. G. Königstein. No. 928,134; July 13; Sp. p. 2950; Gaz. vol. 144; p. 504.  
 Kitchen-rack. L. A. Lemke. No. 919,896; Apr. 27; Sp. p. 6296; Gaz. vol. 141; p. 1075.  
 Kitchen-rack, Foldable. R. Rothengatter. No. 941,653; Nov. 30; Sp. p. 7054; Gaz. vol. 148; p. 1192.  
 Kitchen-range. C. H. Miller. No. 915,986; Mar. 23; Sp. p. 4786; Gaz. vol. 140; p. 846.  
 Kitchen-reminder. O. Roed. No. 914,364; Mar. 2; Sp. p. 1520; Gaz. vol. 140; p. 234.  
 Kitchen-sink cover. A. G. Demarest. No. 914,120; Mar. 2; Sp. p. 993; Gaz. vol. 140; p. 157.  
 Kitchen utensil. J. S. Grenn. No. 925,695; June 22; Sp. p. 5433; Gaz. vol. 143; p. 951.  
 Kitchen utensil. S. C. Arnold. No. 930,917; Aug. 10; Sp. p. 2670; Gaz. vol. 145; p. 457.  
 Kitchen utensil. F. H. Hamblin. No. 939,251; Nov. 9; Sp. p. 1737; Gaz. vol. 148; p. 302.  
 Kitchen utensil. J. Saul. No. 939,329; Nov. 9; Sp. p. 1936; Gaz. vol. 148; p. 331.  
 Kitchen utensil. A. E. Humphreys. No. 944,265; Dec. 28; Sp. p. 4775; Gaz. vol. 149; p. 845.  
 Kite. F. E. Jackson. No. 919,436; Apr. 27; Sp. p. 5317; Gaz. vol. 141; p. 919.



*Alphabetical list of inventions—Continued.*

- Kite, Box-. C. Gruber. No. 927,965; July 13; Sp. p. 2640; Gaz. vol. 144; p. 449.
- Kite-parachute. F. E. Jackson. No. 923,181; June 1; Sp. p. 132; Gaz. vol. 143; p. 21.
- Knapsack. R. S. Royce. No. 922,046; May 18; Sp. p. 4027; Gaz. vol. 142; p. 703.
- Kneading and molding machine, Combined bread. C. and E. J. Kruse. No. 923,360; June 1; Sp. p. 577; Gaz. vol. 143; p. 83.
- Kneading-board. W. B. McKee. No. 916,763; Mar. 30; Sp. p. 6275; Gaz. vol. 140; p. 1123.
- Kneading-machine. H. P. Barr. No. 918,494; Apr. 20; Sp. p. 3127; Gaz. vol. 141; p. 574.
- Kneading machinery. W. H. Rippin. No. 931,087; Aug. 17; Sp. p. 3084; Gaz. vol. 145; p. 541.
- Kneading or mixing machinery. Dough. C. E. and J. E. Poinston. No. 934,834; Sept. 21; Sp. p. 3737; Gaz. vol. 146; p. 649.
- Knee-rest and ear attachment for milking-buckets, Combination. D. W. Dike. No. 917,558; Apr. 6; Sp. p. 1170; Gaz. vol. 141; p. 204.
- Knee-warmer. D. L. Galbraith. No. 927,785; July 13; Sp. p. 2250; Gaz. vol. 144; p. 389.
- Knife: See Band-saw knife; Channeling and grooving knife; Chopping-knife; Cleaning-knife; Corn-cutter knife; Flaying-knife; Gage-knife; Hunting-knife; Mincing-machine knife; Oil-cloth-cutting knife; Paring-knife; Paring and cutting knife; Pocket-knife; Pruning-knife; Putty-knife; Rope-knife; Shade-machine knife; Skinning and dissecting knife; Surgical knife; Table-knife; Tomato-knife; Trimming-knife.
- Knife. S. Chemienes. No. 915,269; Mar. 16; Sp. p. 3339; Gaz. vol. 140; p. 583.
- Knife. E. S. Timmons. No. 916,630; Mar. 30; Sp. p. 6048; Gaz. vol. 140; p. 1084.
- Knife. J. A. York. No. 917,829; Apr. 13; Sp. p. 1742; Gaz. vol. 141; p. 320.
- Knife. S. M. Bickford. No. 925,278; June 15; Sp. p. 4611; Gaz. vol. 143; p. 788.
- Knife. C. J. Landgren. No. 932,874; Aug. 31; Sp. p. 6855; Gaz. vol. 145; p. 1177.
- Knife. K. J. Wilson. No. 936,592; Oct. 12; Sp. p. 2090; Gaz. vol. 147; p. 347.
- Knife. T. C. Fradsham. No. 943,184; Dec. 14; Sp. p. 2479; Gaz. vol. 149; p. 421.
- Knife and fork, Combined table. C. H. Ruble. No. 914,310; Mar. 2; Sp. p. 1387; Gaz. vol. 140; p. 216.
- Knife and fork scourer. W. D. Holmes. No. 940,018; Nov. 16; Sp. p. 3449; Gaz. vol. 148; p. 566.
- Knife attachment. J. C. Holkestad. No. 910,061; Jan. 19; Sp. p. 3281; Gaz. vol. 138; p. 605.
- Knife attachment. C. J. Hagglund. No. 912,469; Feb. 16; Sp. p. 2978; Gaz. vol. 139; p. 539.
- Knife-blade. A. A. Vignos. No. 938,186; Oct. 26; Sp. p. 5427; Gaz. vol. 147; p. 926.
- Knife-blade, Detachable. M. H. Sterling. No. 939,346; Nov. 9; Sp. p. 1979; Gaz. vol. 148; p. 337.
- Knife-cleaner. P. H. Lachicotte. No. 933,313; Sept. 7; Sp. p. 631; Gaz. vol. 146; p. 98.
- Knife for tapping rubber-trees. Q. Q. Bradford. No. 940,670; Nov. 23; Sp. p. 4935; Gaz. vol. 148; p. 844.
- Knife, fork, and spoon kit. A. Aagaard. No. 920,235; May 4; Sp. p. 290; Gaz. vol. 142; p. 47.
- Knife-grinding machine, Band-cutter-. N. Siglin. No. 916,044; Mar. 23; Sp. p. 4891; Gaz. vol. 140; p. 866.
- Knife-guard for jointers. L. Spady. No. 944,976; Dec. 28; Sp. p. 6336; Gaz. vol. 149; p. 1087.
- Knife-handle. F. A. Putnam and L. L. Livingston. No. 913,161; Feb. 23; Sp. p. 4403; Gaz. vol. 139; p. 796.
- Knife-handle-polishing machine. W. J. Carney. No. 909,544; Jan. 12; Sp. p. 2244; Gaz. vol. 138; p. 398.
- Knife-sharpening machine. J. Müller. No. 911,744; Feb. 9; Sp. p. 1425; Gaz. vol. 139; p. 265.
- Knife-switch. G. B. Thomas. No. 910,328; Jan. 19; Sp. p. 3880; Gaz. vol. 138; p. 698.
- Knife-switch. J. H. Miller. No. 921,434; May 11; Sp. p. 2766; Gaz. vol. 142; p. 475.
- Knife-switch handle. C. D. Platt. No. 918,697; Apr. 20; Sp. p. 3622; Gaz. vol. 141; p. 641.
- Knife-wiping device. G. E. Wallin and D. F. Shryock. No. 937,664; Oct. 19; Sp. p. 4290; Gaz. vol. 147; p. 732.
- Knives, Making table-. C. E. Peck. No. 931,471; Aug. 17; Sp. p. 3901; Gaz. vol. 145; p. 673.
- Knit fabric having elastic selvages. H. C. Shaw. No. 924,385; June 8; Sp. p. 2813; Gaz. vol. 143; p. 457.
- Knitted fabric. B. T. Steber. No. 920,207; May 4; Sp. p. 235; Gaz. vol. 142; p. 37.
- Knitted fabric. R. W. Scott. No. 928,221; July 13; Sp. p. 3136; Gaz. vol. 144; p. 534.
- Knitted fabric. W. H. Horn, Jr. No. 930,180; Aug. 3; Sp. p. 1174; Gaz. vol. 145; p. 191.
- Knitted fabric, Ribbed. R. W. Scott. No. 928,222; July 13; Sp. p. 3137; Gaz. vol. 144; p. 535.
- Knitted fabric, Ribbed. R. W. Scott. No. 929,502; July 27; Sp. p. 5788; Gaz. vol. 144; p. 1016.
- Knitted fabric, Ribbed. R. W. Scott. No. 933,673; Sept. 7; Sp. p. 1446; Gaz. vol. 146; p. 218.
- Knitted web, Ribbed. R. W. Scott. No. 932,336; Aug. 24; Sp. p. 5725; Gaz. vol. 145; p. 977.
- Knitting-machine. R. W. Scott. No. 919,962; Apr. 27; Sp. p. 6415; Gaz. vol. 141; p. 1096.
- Knitting-machine. W. D. and L. C. Huse. (Reissue.) No. 12,917; Feb. 9; Sp. p. 2549; Gaz. vol. 139; p. 438.
- Knitting-machine. N. J. Winlund. No. 927,915; July 13; Sp. p. 2539; Gaz. vol. 144; p. 432.
- Knitting-machine. L. L. Wilson and E. Paquette. No. 928,165; July 13; Sp. p. 3005; Gaz. vol. 144; p. 514.
- Knitting-machine. L. L. Wilson and E. Paquette. No. 928,166; July 13; Sp. p. 3013; Gaz. vol. 144; p. 514.
- Knitting-machine. W. W. Burson. No. 928,244; July 20; Sp. p. 3202; Gaz. vol. 144; p. 571.
- Knitting-machine. A. W. Redin. No. 932,578; Aug. 31; Sp. p. 6238; Gaz. vol. 145; p. 1080.
- Knitting-machine. J. Black. No. 933,016; Aug. 31; Sp. p. 7119; Gaz. vol. 145; p. 1224.
- Knitting-machine. A. M. Pigeon. No. 943,230; Dec. 14; Sp. p. 2578; Gaz. vol. 149; p. 437.
- Knitting-machine. W. W. Burson. No. 944,011; Dec. 21; Sp. p. 4270; Gaz. vol. 149; p. 735.
- Knitting-machine. C. J. Mumford. No. 944,968; Dec. 28; Sp. p. 6315; Gaz. vol. 149; p. 1085.
- Knitting-machine attachment, Circular-. H. H. West. No. 926,629; June 29; Sp. p. 7342; Gaz. vol. 143; p. 1295.
- Knitting-machine, Automatic circular-. J. D. Hemphill. No. 935,981; Oct. 5; Sp. p. 811; Gaz. vol. 147; p. 120.
- Knitting-machine, Cam-cylinder. P. Abbott. No. 933,814; Sept. 14; Sp. p. 1736; Gaz. vol. 146; p. 288.
- Knitting-machine, Circular-. W. T. Barratt. No. 917,989; Apr. 13; Sp. p. 2085; Gaz. vol. 141; p. 376.
- Knitting-machine, Circular automatic stocking-. J. D. Hemphill. No. 933,443; Sept. 7; Sp. p. 900; Gaz. vol. 146; p. 140.
- Knitting-machine, Circular-rib-. D. Hurley and W. T. Barratt. No. 908,994; Jan. 5; Sp. p. 1161; Gaz. vol. 138; p. 184.
- Knitting-machine latch-needle. R. W. Scott. No. 938,795; Nov. 2; Sp. p. 736; Gaz. vol. 148; p. 119.
- Knitting-machine openwork and tucking device, Circular-. C. J. Schuyler. No. 915,627; Mar. 16; Sp. p. 4066; Gaz. vol. 140; p. 702.
- Knitting-machine plating device. E. A. Hirner. No. 911,656; Feb. 9; Sp. p. 1264; Gaz. vol. 139; p. 237.
- Knitting-machine, Rib-. R. W. Scott. No. 925,393; June 15; Sp. p. 4817; Gaz. vol. 143; p. 823.
- Knitting-machine stop mechanism. D. T. Berliheimer. No. 916,094; Mar. 23; Sp. p. 4981; Gaz. vol. 140; p. 883.
- Knitting-machine stop-motion. B. T. Steber. No. 944,921; Dec. 28; Sp. p. 6225; Gaz. vol. 149; p. 1070.
- Knitting-machine stop-motion, Circular-. H. Garant. No. 908,989; Jan. 5; Sp. p. 1153; Gaz. vol. 138; p. 183.
- Knitting-machine, Straight-bar. B. Salzer and G. Walther. No. 916,492; Mar. 30; Sp. p. 5768; Gaz. vol. 140; p. 1039.
- Knitting-machine take-up mechanism. R. W. Scott and H. Swinglehurst. No. 920,671; May 4; Sp. p. 1182; Gaz. vol. 142; p. 190.
- Knitting-machine take-up mechanism. G. L. Ballard. No. 940,656; Nov. 23; Sp. p. 4904; Gaz. vol. 148; p. 840.
- Knitting-machine thread-controlled stop-motion, Circular-. N. H. Williams. No. 909,727; Jan. 12; Sp. p. 2612; Gaz. vol. 138; p. 462.
- Knitting-machine web-holder. H. F. Berry. No. 920,418; May 4; Sp. p. 674; Gaz. vol. 142; p. 106.
- Knitting-machine web-holder, Rib-. R. W. Scott. No. 925,036; June 15; Sp. p. 4163; Gaz. vol. 143; p. 708.
- Knitting-machine yarn-changer. G. E. Babcock. No. 916,966; Apr. 6; Sp. p. 9; Gaz. vol. 141; p. 5.
- Knitting-machine yarn-changing mechanism. W. W. Burson. No. 944,012; Dec. 21; Sp. p. 4272; Gaz. vol. 149; p. 735.
- Knitting-machine yarn feeding and changing device. J. D. Hemphill. No. 934,969; Sept. 21; Sp. p. 4007; Gaz. vol. 146; p. 696.
- Knitting machines, Fashioning device for straight-. C. H. Usher. No. 928,229; July 13; Sp. p. 3150; Gaz. vol. 144; p. 537.
- Knitting machines, Lace-pattern mechanism for straight-. B. Salzer and G. Walther. No. 939,328; Nov. 9; Sp. p. 1935; Gaz. vol. 148; p. 330.
- Knitting-machines, Latch-opening device for. H. Swinglehurst. No. 922,064; May 18; Sp. p. 4055; Gaz. vol. 142; p. 709.
- Knitting-machines, Needle-cam for straight independent-needle. B. Popp. No. 941,206; Nov. 23; Sp. p. 6101; Gaz. vol. 148; p. 1024.
- Knitting-machines, Racking device for flat-bed. E. Dubied and B. Popp. No. 943,921; Dec. 21; Sp. p. 4067; Gaz. vol. 149; p. 704.
- Knitting-needles, Machine for making spring. J. Maitland. No. 930,978; Aug. 10; Sp. p. 2802; Gaz. vol. 145; p. 475.
- Knob, Adjustable door-. R. C. Walter. No. 942,605; Dec. 7; Sp. p. 1194; Gaz. vol. 149; p. 195.
- Knob attachment. A. H. Franklin. No. 936,441; Oct. 12; Sp. p. 1787; Gaz. vol. 147; p. 297.
- Knob attachment. J. R. Fletcher. No. 943,740; Dec. 21; Sp. p. 3688; Gaz. vol. 149; p. 641.
- Knob attachment, Door-. B. Revoir. No. 922,041; May 18; Sp. p. 4016; Gaz. vol. 142; p. 702.
- Knob compensator, Door-. W. S. Trask. No. 922,359; May 18; Sp. p. 4632; Gaz. vol. 142; p. 804.
- Knob, Door-. G. B. Pickop. No. 927,427; July 6; Sp. p. 1460; Gaz. vol. 144; p. 242.
- Knob, Door-. C. Ewing. No. 929,416; July 27; Sp. p. 5639; Gaz. vol. 144; p. 989.
- Knob, Door-. C. L. Curtis. No. 929,565; July 27; Sp. p. 5900; Gaz. vol. 144; p. 1037.
- Knob, Door-. J. F. Shaw. No. 937,472; Oct. 19; Sp. p. 3930; Gaz. vol. 147; p. 668.
- Knob, Door-. H. S. Lockwood. No. 938,776; Nov. 2; Sp. p. 697; Gaz. vol. 148; p. 112.
- Knob fastener, Door-. F. E. Beardsley. No. 941,906; Nov. 30; Sp. p. 7604; Gaz. vol. 148; p. 1280.
- Knob, Glass. G. W. Graham. No. 936,533; Oct. 12; Sp. p. 1976; Gaz. vol. 147; p. 326.
- Knob-lock. W. H. Thomas. No. 934,702; Sept. 21; Sp. p. 3480; Gaz. vol. 146; p. 606.
- Knob, Screwless. A. Arens. No. 927,443; July 6; Sp. p. 1498; Gaz. vol. 144; p. 248.
- Knob-spindle compensator. W. S. Trask. No. 923,091; May 25; Sp. p. 6175; Gaz. vol. 142; p. 1071.

*Alphabetical list of inventions—Continued.*

- Knob-spindle, Swivel. J. R. Fletcher. No. 939,191; Nov. 2; Sp. p. 1587; Gaz. vol. 148; p. 257.  
 Knobs, Forming carriage-urn. F. Laible. No. 937,157; Oct. 19; Sp. p. 3243; Gaz. vol. 147; p. 566.  
 Knockdown box. A. M. Wright. No. 923,920; June 8; Sp. p. 1820; Gaz. vol. 143; p. 304.  
 Knockdown box. C. C. Mengel. No. 927,262; July 6; Sp. p. 1156; Gaz. vol. 144; p. 189.  
 Knockdown box. C. C. Mengel. No. 927,264; July 6; Sp. p. 1160; Gaz. vol. 144; p. 189.  
 Knockdown box. C. C. Mengel. No. 927,265; July 6; Sp. p. 1161; Gaz. vol. 144; p. 190.  
 Knockdown box. J. F. Adams. No. 930,112; Aug. 3; Sp. p. 1031; Gaz. vol. 145; p. 167.  
 Knockdown box. J. F. Adams. No. 930,113; Aug. 3; Sp. p. 1033; Gaz. vol. 145; p. 167.  
 Knockdown box. J. F. Adams. No. 930,114; Aug. 3; Sp. p. 1035; Gaz. vol. 145; p. 167.  
 Knockdown box. R. A. Simpson. No. 936,484; Oct. 12; Sp. p. 1877; Gaz. vol. 147; p. 310.  
 Knockdown box. J. Kelley. No. 937,443; Oct. 19; Sp. p. 3867; Gaz. vol. 147; p. 658.  
 Knockdown box. W. J. Neebes, Jr. No. 938,887; Nov. 2; Sp. p. 949; Gaz. vol. 148; p. 151.  
 Knockdown box. W. L. Howland. No. 939,026; Nov. 2; Sp. p. 1243; Gaz. vol. 148; p. 199.  
 Knockdown box. T. A. Brenner. No. 940,122; Nov. 16; Sp. p. 3713; Gaz. vol. 148; p. 633.  
 Knockdown box. L. Weglin, Jr. No. 941,117; Nov. 23; Sp. p. 5893; Gaz. vol. 148; p. 993.  
 Knockdown box. C. F. Jenkins. No. 944,614; Dec. 28; Sp. p. 5532; Gaz. vol. 149; p. 963.  
 Knockdown box or case. J. Q. Matthews. No. 912,590; Feb. 16; Sp. p. 3240; Gaz. vol. 139; p. 581.  
 Knockdown box or crate. C. C. Mengel. No. 927,263; July 6; Sp. p. 1158; Gaz. vol. 144; p. 189.  
 Knockdown case. G. M. Blaser. No. 934,033; Sept. 14; Sp. p. 2160; Gaz. vol. 146; p. 357.  
 Knockdown or foldable box. E. L. Walker. No. 917,384; Apr. 6; Sp. p. 865; Gaz. vol. 141; p. 148.  
 Knockdown table. W. J. Maddox. No. 924,809; June 15; Sp. p. 3687; Gaz. vol. 143; p. 631.  
 Knockdown table. F. J. Mauborgne. No. 936,007; Oct. 5; Sp. p. 859; Gaz. vol. 147; p. 129.  
 Knotted. B. E. Byrd. No. 934,388; Sept. 14; Sp. p. 2857; Gaz. vol. 146; p. 477.  
 Knotted. B. E. Byrd. No. 934,389; Sept. 14; Sp. p. 2860; Gaz. vol. 146; p. 477.  
 Knotted. B. E. Byrd. No. 937,693; Oct. 19; Sp. p. 4347; Gaz. vol. 147; p. 741.  
 Knotted, Cord-. J. A. Sharp. No. 933,126; Sept. 7; Sp. p. 184; Gaz. vol. 146; p. 31.  
 Knouting mechanism. L. B. Wygant. No. 909,272; Jan. 12; Sp. p. 1713; Gaz. vol. 138; p. 309.  
 Knuckle-opener. F. H. Wendt. No. 931,708; Aug. 17; Sp. p. 4406; Gaz. vol. 145; p. 747.  
 Knuckle-opener, Car-coupler. F. H. Wendt. No. 931,709; Aug. 17; Sp. p. 4409; Gaz. vol. 145; p. 748.  
 Knuckle pivot-pins, Retainer for. R. P. Lamont. No. 929,804; Aug. 3; Sp. p. 511; Gaz. vol. 145; p. 82.  
 Kvass, Production of. A. Eisenberg. No. 938,374; Oct. 26; Sp. p. 5830; Gaz. vol. 147; p. 990.  
 L for waste and overflow. J. B. Wise. No. 938,102; Oct. 26; Sp. p. 5228; Gaz. vol. 147; p. 896.  
 Label-affixing device, Bottle-. S. B. Goff. No. 924,343; June 8; Sp. p. 2725; Gaz. vol. 143; p. 444.  
 Label-affixing mechanism. F. O. Woodland. No. 918,511; Apr. 20; Sp. p. 3840; Gaz. vol. 141; p. 679.  
 Label and address holder, Reversible. T. J. Whelan. No. 919,666; Apr. 27; Sp. p. 5819; Gaz. vol. 141; p. 998.  
 Label-coating machine. G. E. Inman. No. 911,241; Feb. 2; Sp. p. 435; Gaz. vol. 139; p. 75.  
 Label for bread, &c., Edible. C. Loesch. No. 919,736; Apr. 27; Sp. p. 5950; Gaz. vol. 141; p. 1021.  
 Label-holder. E. J. Middleton. No. 942,094; Dec. 7; Sp. p. 127; Gaz. vol. 149; p. 20.  
 Label-holder and pattern or parcel remover, Combined. M. Frank. No. 910,278; Jan. 19; Sp. p. 3781; Gaz. vol. 138; p. 681.  
 Label, Shoe-carton. L. M. Stingily. No. 933,004; Aug. 31; Sp. p. 7088; Gaz. vol. 145; p. 1220.  
 Label-supply mechanism. F. O. Woodland. No. 917,509; Apr. 6; Sp. p. 1078; Gaz. vol. 141; p. 189.  
 Labels, Means to facilitate the application of paste to. C. Bunch. No. 944,314; Dec. 28; Sp. p. 4892; Gaz. vol. 149; p. 862.  
 Labels to garments, &c., Attaching. M. Mayer. No. 922,608; May 25; Sp. p. 5173; Gaz. vol. 142; p. 916.  
 Labeling-machine. F. W. Wild, Jr. No. 923,096; May 25; Sp. p. 6188; Gaz. vol. 142; p. 1073.  
 Labeling-machine. F. O. Woodland. No. 937,403; Oct. 19; Sp. p. 3765; Gaz. vol. 147; p. 644.  
 Labeling-machine. F. O. Woodland. No. 938,807; Nov. 2; Sp. p. 769; Gaz. vol. 148; p. 124.  
 Labeling-machine. F. O. Woodland. No. 940,105; Nov. 16; Sp. p. 3684; Gaz. vol. 148; p. 628.  
 Labeling-machine. E. F. Rorke. No. 940,731; Nov. 23; Sp. p. 5077; Gaz. vol. 148; p. 866.  
 Labeling-machine. F. O. Woodland. No. 941,178; Nov. 23; Sp. p. 6034; Gaz. vol. 148; p. 1014.  
 Labeling machine, Bottle-. G. A. Thornhill. No. 922,974; May 25; Sp. p. 5933; Gaz. vol. 142; p. 1034.  
 Labeling machine, Bottle-. E. Ermoind. No. 923,501; June 1; Sp. p. 860; Gaz. vol. 143; p. 131.  
 Labeling machine, Bottle-. C. A. Fosselman. No. 930,464; Aug. 10; Sp. p. 1692; Gaz. vol. 145; p. 306.  
 Labeling machine, Box-. F. Coates. No. 940,674; Nov. 23; Sp. p. 4943; Gaz. vol. 148; p. 845.  
 Labeling machine, Can-. J. Barrow. No. 924,129; June 8; Sp. p. 2215; Gaz. vol. 143; p. 370.  
 Labeling machine, Can-. G. F. Russ. No. 938,897; Nov. 2; Sp. p. 978; Gaz. vol. 148; p. 154.  
 Labeling-machine wiper. F. O. Woodland. No. 919,991; Apr. 27; Sp. p. 6466; Gaz. vol. 141; p. 1105.  
 Labeling-machine wiper mechanism. F. O. Woodland. No. 918,242; Apr. 13; Sp. p. 2613; Gaz. vol. 141; p. 463.  
 Lace. F. M. Morrow. No. 931,949; Aug. 24; Sp. p. 4944; Gaz. vol. 145; p. 848.  
 Lace and the like, Shoe-. H. F. Schelling. No. 943,607; Dec. 14; Sp. p. 3355; Gaz. vol. 149; p. 566.  
 Lace, Boot-. H. Hirschfeld. No. 932,125; Aug. 24; Sp. p. 5321; Gaz. vol. 145; p. 907.  
 Lace corrodible groundwork. R. Bauer. No. 917,402; Apr. 6; Sp. p. 898; Gaz. vol. 141; p. 155.  
 Lace fabric and the like, Producing artificial. M. Ratignier and H. Pervilhac. No. 934,214; Sept. 14; Sp. p. 2532; Gaz. vol. 146; p. 418.  
 Lace-fastener. W. H. Schweitzer. No. 913,568; Feb. 23; Sp. p. 5272; Gaz. vol. 139; p. 933.  
 Lace-holder. C. Nesbitt. No. 912,602; Feb. 16; Sp. p. 3266; Gaz. vol. 139; p. 586.  
 Lace-holder. J. Keel. No. 926,876; July 6; Sp. p. 360; Gaz. vol. 144; p. 57.  
 Lace-machine. C. Hickton. No. 934,914; Sept. 21; Sp. p. 3891; Gaz. vol. 146; p. 675.  
 Lace machine, Twist-. C. Hickton. No. 921,698; May 18; Sp. p. 3313; Gaz. vol. 142; p. 590.  
 Lace machines, Spring-dropper jacquard for Lavers-. S. W. Hardy. No. 934,910; Sept. 21; Sp. p. 3880; Gaz. vol. 146; p. 674.  
 Lace-making machine. G. Krenzler. No. 934,324; Sept. 14; Sp. p. 2732; Gaz. vol. 146; p. 454.  
 Laces, Forming tips for shoe-. M. A. Bartels. No. 925,266; June 15; Sp. p. 4589; Gaz. vol. 143; p. 784.  
 Lacing. G. W. Prentice. No. 920,646; May 4; Sp. p. 1113; Gaz. vol. 142; p. 181.  
 Lacing-hook. F. L. Reeder. No. 937,177; Oct. 19; Sp. p. 3284; Gaz. vol. 147; p. 572.  
 Lacing-hook-making machine. H. H. Eaton and G. Goddard. No. 932,005; Aug. 24; Sp. p. 5066; Gaz. vol. 145; p. 867.  
 Lacing-hook-making machine. H. H. Eaton. No. 936,430; Oct. 12; Sp. p. 1751; Gaz. vol. 147; p. 293.  
 Lacing hook or stud setting machine. H. H. Eaton. No. 936,431; Oct. 12; Sp. p. 1757; Gaz. vol. 147; p. 293.  
 Lacing-hook-setting machines, Spacing mechanism for. W. F. Fraser. No. 927,647; July 13; Sp. p. 1963; Gaz. vol. 144; p. 343.  
 Lacing-hook-setting machines, Spacing mechanism for. W. F. Fraser. No. 933,298; Sept. 7; Sp. p. 603; Gaz. vol. 146; p. 93.  
 Lacing-hooks and the like, Machine for setting. A. W. Hargraves. No. 934,402; Sept. 14; Sp. p. 2886; Gaz. vol. 146; p. 482.  
 Lacing-tip. F. Thun. No. 931,811; Aug. 24; Sp. p. 4638; Gaz. vol. 145; p. 803.  
 Lacing-tips and the like and composition for the same, Fabric for. G. W. Prentice. No. 939,313; Nov. 9; Sp. p. 1913; Gaz. vol. 148; p. 326.  
 Lacing tool and square, Belt-. K. T. Mumford. No. 940,400; Nov. 16; Sp. p. 4364; Gaz. vol. 148; p. 730.  
 Lacing tool, Belt-. J. W. Kane and W. R. Christie. No. 930,765; Aug. 10; Sp. p. 2351; Gaz. vol. 145; p. 407.  
 Lacing tool, Belt-. H. T. Mumford. No. 940,401; Nov. 16; Sp. p. 4366; Gaz. vol. 148; p. 730.  
 Ladder. H. A. Myers. No. 909,315; Jan. 12; Sp. p. 1806; Gaz. vol. 138; p. 323.  
 Ladder. A. H. Loomis. No. 914,436; Mar. 9; Sp. p. 1660; Gaz. vol. 140; p. 284.  
 Ladder. E. T. Robinson. No. 916,602; Mar. 30; Sp. p. 5994; Gaz. vol. 140; p. 1075.  
 Ladder. G. Fornari. No. 917,576; Apr. 6; Sp. p. 1196; Gaz. vol. 141; p. 210.  
 Ladder. H. H. Fussey and A. Brown. No. 920,316; May 4; Sp. p. 469; Gaz. vol. 142; p. 73.  
 Ladder. H. B. Fuller. No. 922,878; May 25; Sp. p. 5759; Gaz. vol. 142; p. 1004.  
 Ladder. I. R. Concoff and R. S. Lovett. No. 926,642; June 29; Sp. p. 7363; Gaz. vol. 143; p. 1299.  
 Ladder. O. Colborne. No. 927,491; July 13; Sp. p. 1616; Gaz. vol. 144; p. 290.  
 Ladder. M. Bartos and J. Brannstein. No. 933,816; Sept. 14; Sp. p. 1740; Gaz. vol. 146; p. 289.  
 Ladder. J. Coplinky. No. 936,219; Oct. 5; Sp. p. 1282; Gaz. vol. 147; p. 195.  
 Ladder. F. L. Union. No. 936,681; Oct. 12; Sp. p. 2281; Gaz. vol. 147; p. 378.  
 Ladder. J. W. Caldwell. No. 938,638; Nov. 2; Sp. p. 430; Gaz. vol. 148; p. 66.  
 Ladder. J. Vaghi. No. 942,683; Dec. 7; Sp. p. 1346; Gaz. vol. 149; p. 221.  
 Ladder. H. Schönic and J. Langer. No. 944,000; Dec. 21; Sp. p. 4243; Gaz. vol. 149; p. 730.  
 Ladder and ironing-board, Combined step-. L. King. No. 936,909; Oct. 12; Sp. p. 2725; Gaz. vol. 147; p. 454.  
 Ladder and ironing-board support, Combination step-. A. Stevens. No. 926,363; June 29; Sp. p. 6860; Gaz. vol. 143; p. 1207.  
 Ladder and like apparatus, Exercising-. M. B. Reach. No. 909,024; Jan. 5; Sp. p. 1212; Gaz. vol. 138; p. 194.  
 Ladder attachment. C. E. Davidson. No. 916,535; Mar. 30; Sp. p. 5768; Gaz. vol. 140; p. 1053.  
 Ladder-bracket. L. T. Burns. No. 910,639; Jan. 25; Sp. p. 4537; Gaz. vol. 138; p. 826.  
 Ladder, Combination extension and step. P. C. Plasterer. No. 912,409; Feb. 16; Sp. p. 2864; Gaz. vol. 139; p. 520.



*Alphabetical list of inventions—Continued.*

- Ladder, Convertible. S. S. Groves. No. 920,733; May 4; Sp. p. 1306; Gaz. vol. 142; p. 210.  
 Ladder, Convertible. J. E. Duncan. No. 944,849; Dec. 28; Sp. p. 6088; Gaz. vol. 149; p. 1046.  
 Ladder, Extensible. A. F. Cralle. No. 923,815; June 8; Sp. p. 1628; Gaz. vol. 143; p. 270.  
 Ladder, Extension-. M. M. Floyd. No. 910,188; Jan. 19; Sp. p. 3549; Gaz. vol. 138; p. 646.  
 Ladder, Extension-. G. G. Crabb. No. 922,091; May 18; Sp. p. 4117; Gaz. vol. 142; p. 719.  
 Ladder, Extension-. H. and L. Mote. No. 925,822; June 22; Sp. p. 5742; Gaz. vol. 143; p. 994.  
 Ladder, Extension-. J. L. Setzer. No. 929,169; July 27; Sp. p. 5109; Gaz. vol. 144; p. 907.  
 Ladder, Extension step-. E. M. Hoppe. No. 918,553; Apr. 20; Sp. p. 3251; Gaz. vol. 141; p. 592.  
 Ladder, Extension step-. N. Binger and E. F. Burgstaller. No. 943,511; Dec. 14; Sp. p. 3180; Gaz. vol. 149; p. 534.  
 Ladder for picking fruit, &c. J. W. Stevenson. No. 925,051; June 15; Sp. p. 4191; Gaz. vol. 143; p. 713.  
 Ladder, Fruit-picker's portable. E. A. Smith. No. 937,388; Oct. 19; Sp. p. 3731; Gaz. vol. 147; p. 639.  
 Ladder, Gymnasium-. M. B. Reach. No. 932,902; Aug. 31; Sp. p. 6904; Gaz. vol. 145; p. 1186.  
 Ladder, ironing-board, and clothes-rack, Combined step-. J. Watt. No. 938,924; Nov. 2; Sp. p. 1047; Gaz. vol. 148; p. 165.  
 Ladder, Jointed. L. W. Rentfrow. No. 925,598; June 22; Sp. p. 5235; Gaz. vol. 143; p. 921.  
 Ladder, Painter's. A. B. Thompson. No. 911,919; Feb. 9; Sp. p. 1742; Gaz. vol. 139; p. 322.  
 Ladder, Safety window-. J. G. Hanserd. No. 934,667; Sept. 21; Sp. p. 3407; Gaz. vol. 146; p. 594.  
 Ladder, Scaffold-. J. R. Jones. No. 921,117; May 11; Sp. p. 2085; Gaz. vol. 142; p. 368.  
 Ladder, Step-. C. J. Reed and C. B. Spooner. No. 909,669; Jan. 12; Sp. p. 2490; Gaz. vol. 138; p. 442.  
 Ladder, Step-. J. B. Robertson. No. 909,825; Jan. 12; Sp. p. 2798; Gaz. vol. 138; p. 493.  
 Ladder, Step-. M. Crum. No. 920,547; May 4; Sp. p. 922; Gaz. vol. 142; p. 149.  
 Ladder, Step-. E. C. Mead. No. 922,306; May 18; Sp. p. 4535; Gaz. vol. 142; p. 788.  
 Ladder, Step-. J. A. Clough. No. 923,246; June 1; Sp. p. 262; Gaz. vol. 143; p. 43.  
 Ladder, Step-. H. B. Turner. No. 930,333; Aug. 3; Sp. p. 1431; Gaz. vol. 145; p. 238.  
 Ladder, Step-. S. Jones. No. 934,315; Sept. 14; Sp. p. 2722; Gaz. vol. 146; p. 452.  
 Ladder, Step-. S. Jones. No. 934,316; Sept. 14; Sp. p. 2722; Gaz. vol. 146; p. 452.  
 Ladder, step-ladder, and scaffold, Combined extension-. P. Bucco. No. 931,265; Aug. 17; Sp. p. 3476; Gaz. vol. 145; p. 602.  
 Ladder, Trussed. A. P. Boyer. No. 922,847; May 25; Sp. p. 5667; Gaz. vol. 142; p. 993.  
 Ladder, Trussed. B. B. Briggs. No. 934,276; Sept. 14; Sp. p. 2643; Gaz. vol. 146; p. 439.  
 Ladders, Machine for making side rails of step-. J. C. Ludwig, Jr. No. 910,299; Jan. 19; Sp. p. 3819; Gaz. vol. 138; p. 688.  
 Ladders, Shelf attachment for. J. W. Dawkins. No. 929,291; July 27; Sp. p. 5379; Gaz. vol. 144; p. 947.  
 Ladders, steps, trestles, &c., Adjustable foot for. G. Bartlett. No. 913,452; Feb. 23; Sp. p. 5007; Gaz. vol. 139; p. 894.  
 Ladle. M. H. Treadwell. No. 915,250; Mar. 16; Sp. p. 3305; Gaz. vol. 140; p. 578.  
 Ladle. B. O. Branch. No. 917,409; Apr. 6; Sp. p. 909; Gaz. vol. 141; p. 157.  
 Ladle carrier, Foundry-. G. J. Blackham. No. 927,022; July 6; Sp. p. 661; Gaz. vol. 144; p. 107.  
 Ladle construction. G. P. Jones. No. 933,732; Sept. 7; Sp. p. 1589; Gaz. vol. 146; p. 240.  
 Ladle construction. R. H. Stevens. No. 934,946; Sept. 21; Sp. p. 3964; Gaz. vol. 146; p. 688.  
 Ladle crane mechanism. D. Kendall. No. 909,606; Jan. 12; Sp. p. 2367; Gaz. vol. 138; p. 420.  
 Ladle machinery. C. W. Aveling. No. 910,483; Jan. 26; Sp. p. 4210; Gaz. vol. 138; p. 775.  
 Ladle, Swinging. W. R. Palmer. No. 909,655; Jan. 12; Sp. p. 2464; Gaz. vol. 138; p. 437.  
 Lagging. T. N. Manuel. No. 919,198; Apr. 20; Sp. p. 4614; Gaz. vol. 141; p. 805.  
 Lamp. See Car-inspector's lamp.  
 Lamp. A. W. Hall. No. 909,785; Jan. 12; Sp. p. 2714; Gaz. vol. 138; p. 480.  
 Lamp. R. E. Bruckner. No. 910,455; Jan. 19; Sp. p. 4137; Gaz. vol. 138; p. 741.  
 Lamp. L. Schepmoes. No. 914,079; Mar. 2; Sp. p. 907; Gaz. vol. 140; p. 142.  
 Lamp. J. D. Landers and G. Johnson. No. 914,148; Mar. 2; Sp. p. 1049; Gaz. vol. 140; p. 166.  
 Lamp. H. N. Fowler. No. 914,259; Mar. 2; Sp. p. 1290; Gaz. vol. 140; p. 200.  
 Lamp. P. Heylandt. No. 914,954; Mar. 9; Sp. p. 2699; Gaz. vol. 140; p. 453.  
 Lamp. A. J. Prenosil. No. 915,795; Mar. 23; Sp. p. 4424; Gaz. vol. 140; p. 785.  
 Lamp. F. A. Curtis. No. 917,262; Apr. 6; Sp. p. 625; Gaz. vol. 141; p. 106.  
 Lamp. J. and G. G. Doorenbos. No. 917,421; Apr. 6; Sp. p. 926; Gaz. vol. 141; p. 161.  
 Lamp. H. F. Smith. No. 921,904; May 18; Sp. p. 3731; Gaz. vol. 142; p. 658.  
 Lamp. M. I. Cohen. No. 924,600; June 8; Sp. p. 3233; Gaz. vol. 143; p. 527.  
 Lamp. P. Krastin. No. 924,674; June 15; Sp. p. 3402; Gaz. vol. 143; p. 585.  
 Lamp. L. W. Griser. No. 926,406; June 29; Sp. p. 6931; Gaz. vol. 143; p. 1221.  
 Lamp. L. W. Griser. No. 926,407; June 29; Sp. p. 6932; Gaz. vol. 143; p. 1221.  
 Lamp. C. M. Daniels. No. 927,124; July 6; Sp. p. 890; Gaz. vol. 144; p. 143.  
 Lamp. E. C. Broadwell and J. A. Lyons. No. 929,280; July 27; Sp. p. 5359; Gaz. vol. 144; p. 943.  
 Lamp. S. Hammond. No. 929,423; July 27; Sp. p. 5648; Gaz. vol. 144; p. 991.  
 Lamp. O. A. Arneson. No. 930,019; Aug. 3; Sp. p. 835; Gaz. vol. 145; p. 134.  
 Lamp. L. Schepmoes. No. 931,496; Aug. 17; Sp. p. 3948; Gaz. vol. 145; p. 681.  
 Lamp. F. A. Curtis. No. 933,162; Sept. 7; Sp. p. 268; Gaz. vol. 146; p. 44.  
 Lamp. J. R. McKay. No. 933,385; Sept. 7; Sp. p. 802; Gaz. vol. 146; p. 124.  
 Lamp. M. I. Cohen. No. 936,521; Oct. 12; Sp. p. 1953; Gaz. vol. 147; p. 322.  
 Lamp. W. H. Thayer. No. 937,115; Oct. 19; Sp. p. 3137; Gaz. vol. 147; p. 551.  
 Lamp. H. F. Smith. (Reissue.) No. 13,033; Nov. 2; Sp. p. 1600; Gaz. vol. 148; p. 259.  
 Lamp. E. Schmidt. No. 940,073; Nov. 16; Sp. p. 3613; Gaz. vol. 148; p. 616.  
 Lamp. H. Salisbury. No. 942,589; Dec. 7; Sp. p. 1162; Gaz. vol. 149; p. 189.  
 Lamp. E. E. Allbee. No. 942,608; Dec. 7; Sp. p. 1202; Gaz. vol. 149; p. 196.  
 Lamp. C. M. Daniels. No. 944,775; Dec. 28; Sp. p. 5917; Gaz. vol. 149; p. 1020.  
 Lamp, Acetylene gas. W. A. Fenton. No. 929,296; July 27; Sp. p. 5397; Gaz. vol. 144; p. 949.  
 Lamp, Acetylene-gas. L. B. King. No. 944,789; Dec. 28; Sp. p. 5945; Gaz. vol. 149; p. 1025.  
 Lamp adjustable bracket. F. G. Douglas. No. 916,121; Mar. 23; Sp. p. 5032; Gaz. vol. 140; p. 891.  
 Lamp adjustable support, Electric. L. Erikson. No. 941,863; Nov. 30; Sp. p. 7520; Gaz. vol. 148; p. 1265.  
 Lamp alarm, Signal-. W. K. Sparrow. No. 912,433; Feb. 16; Sp. p. 2905; Gaz. vol. 139; p. 527.  
 Lamp, Alcohol-. A. C. Fox. No. 924,654; June 15; Sp. p. 3358; Gaz. vol. 143; p. 579.  
 Lamp, Alcohol-. A. Rector. No. 934,014; Sept. 14; Sp. p. 2128; Gaz. vol. 146; p. 351.  
 Lamp, Alcohol-. S. Sternau, L. Strassburger, and J. P. Steppe. No. 937,113; Oct. 19; Sp. p. 3131; Gaz. vol. 147; p. 551.  
 Lamp and burner, Vapor. B. Charonne. No. 918,005; Apr. 13; Sp. p. 2130; Gaz. vol. 141; p. 383.  
 Lamp and feeding-tube connection and support. H. H. Eason. No. 909,069; Jan. 5; Sp. p. 1303; Gaz. vol. 138; p. 209.  
 Lamp and lantern. H. E. Harbaugh. No. 923,970; June 8; Sp. p. 1917; Gaz. vol. 143; p. 320.  
 Lamp and making the same, Electric. C. P. Steinmetz. No. 910,736; Jan. 26; Sp. p. 4710; Gaz. vol. 138; p. 856.  
 Lamp and making the same, Electric. C. P. Steinmetz. No. 910,969; Jan. 26; Sp. p. 5165; Gaz. vol. 138; p. 931.  
 Lamp, Arc-. R. Fleming. No. 910,481; Jan. 19; Sp. p. 4199; Gaz. vol. 138; p. 750.  
 Lamp, Arc-. C. A. B. Halvorson, Jr. No. 910,670; Jan. 26; Sp. p. 4593; Gaz. vol. 138; p. 835.  
 Lamp, Arc-. C. A. B. Halvorson, Jr. No. 913,209; Feb. 23; Sp. p. 4504; Gaz. vol. 139; p. 811.  
 Lamp, Arc-. W. F. Warner. No. 914,684; Mar. 9; Sp. p. 2172; Gaz. vol. 140; p. 365.  
 Lamp, Arc-. W. R. Whitney. No. 915,052; Mar. 16; Sp. p. 2861; Gaz. vol. 140; p. 485.  
 Lamp, Arc-. R. H. Read. No. 917,147; Apr. 6; Sp. p. 388; Gaz. vol. 141; p. 67.  
 Lamp, Arc-. W. G. Houskeeper. No. 917,867; Apr. 13; Sp. p. 1822; Gaz. vol. 141; p. 333.  
 Lamp, Arc-. C. C. Hughes. No. 920,331; May 4; Sp. p. 491; Gaz. vol. 142; p. 77.  
 Lamp, Arc-. B. Monasch. No. 921,866; May 18; Sp. p. 3665; Gaz. vol. 142; p. 646.  
 Lamp, Arc-. B. Monasch. No. 924,916; June 15; Sp. p. 3910; Gaz. vol. 143; p. 667.  
 Lamp, Arc-. W. C. Fish and R. Fleming. No. 925,166; June 15; Sp. p. 4406; Gaz. vol. 143; p. 752.  
 Lamp, Arc-. R. Fleming and C. A. B. Halvorson, Jr. No. 926,732; July 6; Sp. p. 24; Gaz. vol. 144; p. 7.  
 Lamp, Arc-. W. S. Weedon. No. 926,793; July 6; Sp. p. 174; Gaz. vol. 144; p. 29.  
 Lamp, Arc-. G. E. Stevens. No. 928,161; July 13; Sp. p. 2998; Gaz. vol. 144; p. 513.  
 Lamp, Arc-. R. Fleming and C. A. B. Halvorson, Jr. No. 928,189; July 13; Sp. p. 3077; Gaz. vol. 144; p. 524.  
 Lamp, Arc-. D. R. Knapp and I. S. Schiesinger. No. 928,464; July 20; Sp. p. 3678; Gaz. vol. 144; p. 647.  
 Lamp, Arc-. J. Hårdén. No. 929,643; July 27; Sp. p. 6080; Gaz. vol. 144; p. 1063.  
 Lamp, Arc-. S. P. Wilbur. No. 931,168; Aug. 17; Sp. p. 3263; Gaz. vol. 145; p. 569.  
 Lamp, Arc-. G. M. Little. No. 933,770; Sept. 14; Sp. p. 1653; Gaz. vol. 146; p. 273.  
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*Alphabetical list of inventions—Continued.*

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 Lamp, Arc-. C. D. Haskins. No. 935,908; Oct. 5; Sp. p. 659; Gaz. vol. 147; p. 96.  
 Lamp, Arc-. E. J. Murphy. No. 935,920; Oct. 5; Sp. p. 688; Gaz. vol. 147; p. 100.  
 Lamp, Arc-. R. H. Pyle. No. 937,386; Oct. 19; Sp. p. 3729; Gaz. vol. 147; p. 639.  
 Lamp, Aseptic deflector-. G. C. Werner. No. 936,499; Oct. 12; Sp. p. 1910; Gaz. vol. 147; p. 315.  
 Lamp attachment, W. V. Williams and W. K. Lane. No. 925,255; June 15; Sp. p. 4570; Gaz. vol. 143; p. 781.  
 Lamp attachment for vehicles. G. S. Sherman. No. 933,350; Sept. 7; Sp. p. 713; Gaz. vol. 146; p. 111.  
 Lamp attachment, Mercury-. C. P. Steinmetz. No. 940,209; Nov. 16; Sp. p. 3910; Gaz. vol. 148; p. 664.  
 Lamp attachment, Miner's-. W. Tunnessen. No. 918,611; Apr. 20; Sp. p. 3377; Gaz. vol. 141; p. 611.  
 Lamp attachment, Vehicle-. A. G. Thomson. No. 936,831; Oct. 12; Sp. p. 2564; Gaz. vol. 147; p. 428.  
 Lamp, Automatic flash-. H. E. Meyers. No. 932,406; Aug. 24; Sp. p. 5854; Gaz. vol. 145; p. 999.  
 Lamp, Bake-oven. G. C. Moore. No. 926,995; July 6; Sp. p. 592; Gaz. vol. 144; p. 97.  
 Lamp, Baker's-oven. C. Robson. No. 933,113; Sept. 7; Sp. p. 159; Gaz. vol. 146; p. 27.  
 Lamp, Bertha-. W. S. Hamm and T. A. Legge. No. 942,963; Dec. 14; Sp. p. 2001; Gaz. vol. 149; p. 347.  
 Lamp, Blast-. L. Schennitz. No. 936,815; Oct. 12; Sp. p. 2531; Gaz. vol. 147; p. 423.  
 Lamp-bracket. J. Rausch. No. 915,216; Mar. 16; Sp. p. 3244; Gaz. vol. 140; p. 567.  
 Lamp-bracket. R. G. Du Bois. No. 919,837; Apr. 27; Sp. p. 6187; Gaz. vol. 141; p. 1055.  
 Lamp-bracket. J. Bosuyakovits. No. 929,381; July 27; Sp. p. 5584; Gaz. vol. 144; p. 979.  
 Lamp-bracket. J. B. De Bord. No. 931,848; Aug. 24; Sp. p. 4704; Gaz. vol. 145; p. 815.  
 Lamp-bracket. W. W. Shipp. No. 937,875; Oct. 26; Sp. p. 4748; Gaz. vol. 147; p. 821.  
 Lamp-bracket, Adjustable. C. E. Stevens. No. 936,379; Oct. 12; Sp. p. 1630; Gaz. vol. 147; p. 276.  
 Lamp-bracket, Extensible. C. N. Leonard. No. 917,467; Apr. 6; Sp. p. 1006; Gaz. vol. 141; p. 175.  
 Lamp bracket, Vehicle-. J. L. Eblen and H. Kirkendall. No. 924,045; June 8; Sp. p. 2058; Gaz. vol. 143; p. 343.  
 Lamp-bulb guard. G. L. Brisbin. No. 924,312; June 8; Sp. p. 2665; Gaz. vol. 143; p. 434.  
 Lamp bulbs, Locking device for incandescent-electric-. L. Davis. No. 933,296; Sept. 7; Sp. p. 601; Gaz. vol. 146; p. 93.  
 Lamp bulbs, Method and apparatus for tubulating. J. E. Graybill. No. 918,669; Apr. 20; Sp. p. 3548; Gaz. vol. 141; p. 632.  
 Lamp-burner. M. Savage. No. 910,022; Jan. 19; Sp. p. 3205; Gaz. vol. 138; p. 592.  
 Lamp-burner. R. A. Somerville. No. 913,173; Feb. 23; Sp. p. 4435; Gaz. vol. 139; p. 800.  
 Lamp-burner. C. Staneik. No. 913,991; Mar. 2; Sp. p. 711; Gaz. vol. 140; p. 112.  
 Lamp-burner. V. V. Vargason. No. 915,512; Mar. 16; Sp. p. 3810; Gaz. vol. 140; p. 662.  
 Lamp-burner. F. A. Satter. No. 920,495; May 4; Sp. p. 805; Gaz. vol. 142; p. 130.  
 Lamp-burner. F. A. Schuetz. No. 923,301; June 1; Sp. p. 448; Gaz. vol. 143; p. 63.  
 Lamp-burner. G. Kerr. No. 929,225; July 27; Sp. p. 5213; Gaz. vol. 144; p. 925.  
 Lamp-burner. D. J. Canchester. No. 929,762; Aug. 3; Sp. p. 249; Gaz. vol. 145; p. 43.  
 Lamp-burner. E. L. Lilly. No. 930,201; Aug. 3; Sp. p. 1203; Gaz. vol. 145; p. 196.  
 Lamp-burner. A. W. Paul and J. A. McGinnis. No. 931,642; Aug. 17; Sp. p. 4216; Gaz. vol. 145; p. 723.  
 Lamp-burner. J. H. Dunn. No. 932,974; Aug. 31; Sp. p. 7039; Gaz. vol. 145; p. 1210.  
 Lamp-burner. J. H. Morrison. No. 934,453; Sept. 21; Sp. p. 2998; Gaz. vol. 146; p. 522.  
 Lamp-burner. A. H. Coombs. No. 937,362; Oct. 19; Sp. p. 3664; Gaz. vol. 147; p. 631.  
 Lamp-burner. W. E. Gard. No. 938,754; Nov. 2; Sp. p. 652; Gaz. vol. 148; p. 104.  
 Lamp-burner. S. B. Moss. No. 941,163; Nov. 23; Sp. p. 6001; Gaz. vol. 148; p. 1009.  
 Lamp-burner. F. E. Fender. No. 941,315; Nov. 23; Sp. p. 6327; Gaz. vol. 148; p. 1058.  
 Lamp-burner attachment. C. Z. Davis. No. 912,818; Feb. 16; Sp. p. 3748; Gaz. vol. 139; p. 660.  
 Lamp-burner chimney-holder. T. M. Griffin. No. 913,724; Mar. 2; Sp. p. 90; Gaz. vol. 140; p. 17.  
 Lamp-burner for incubators. W. S. Ault. No. 926,044; June 22; Sp. p. 6176; Gaz. vol. 143; p. 1066.  
 Lamp burner, Incandescent-. L. Fellberg. No. 930,063; Aug. 3; Sp. p. 931; Gaz. vol. 145; p. 149.  
 Lamp burner, Incandescent-. A. A. Jahnke. No. 939,137; Nov. 2; Sp. p. 1457; Gaz. vol. 148; p. 237.  
 Lamp burning with hydrocarbon or other vapors. A. F. Chiesanova. No. 929,285; July 27; Sp. p. 5368; Gaz. vol. 144; p. 945.  
 Lamp, Calorimeter-. H. Junkers. No. 918,059; Apr. 13; Sp. p. 2239; Gaz. vol. 141; p. 402.  
 Lamp, Car-inspector's. J. C. Cliver. No. 929,916; Aug. 3; Sp. p. 630; Gaz. vol. 145; p. 99.  
 Lamp carbon-feeding device, Arc-. R. Fritz. No. 917,041; Apr. 6; Sp. p. 161; Gaz. vol. 141; p. 31.  
 Lamp carbon-holder, Electric-. C. J. Lang. No. 911,411; Feb. 2; Sp. p. 750; Gaz. vol. 139; p. 130.  
 Lamp, Carriage-. H. Blau. No. 939,385; Nov. 9; Sp. p. 2094; Gaz. vol. 148; p. 349.  
 Lamp, Central-draft incandescent oil-. C. Blankenburg. No. 927,769; July 13; Sp. p. 2215; Gaz. vol. 144; p. 384.  
 Lamp-chimney. W. S. Wiley. No. 931,538; Aug. 17; Sp. p. 4019; Gaz. vol. 145; p. 693.  
 Lamp-chimney. G. H. Lee. No. 940,468; Nov. 16; Sp. p. 4498; Gaz. vol. 148; p. 752.  
 Lamp-chimney heating attachment. W. Poole. No. 908,494; Jan. 5; Sp. p. 122; Gaz. vol. 138; p. 22.  
 Lamp-chimney holder. T. Murphy. No. 910,710; Jan. 26; Sp. p. 4663; Gaz. vol. 138; p. 848.  
 Lamp-chimney holder. L. Hunt. No. 932,471; Aug. 31; Sp. p. 6013; Gaz. vol. 145; p. 1044.  
 Lamp cleaner, Electric-. E. E. Edgerton. No. 925,084; June 15; Sp. p. 4250; Gaz. vol. 143; p. 723.  
 Lamp cluster, Incandescent-. F. Schwartz and L. Kleinmann. No. 918,202; Apr. 13; Sp. p. 2525; Gaz. vol. 141; p. 450.  
 Lamp construction. W. Herwig. No. 925,771; June 22; Sp. p. 5634; Gaz. vol. 143; p. 977.  
 Lamp-controlling apparatus, Gas-. G. Himmel. No. 909,089; Jan. 5; Sp. p. 1344; Gaz. vol. 138; p. 215.  
 Lamp-cord adjuster. W. E. and G. Hagstrom. No. 915,288; Mar. 16; Sp. p. 3372; Gaz. vol. 140; p. 589.  
 Lamp cut-out, Arc-. L. E. Jones. No. 932,613; Aug. 31; Sp. p. 6336; Gaz. vol. 145; p. 1093.  
 Lamp, Double-filament incandescent. H. E. Meyers. No. 932,405; Aug. 24; Sp. p. 5852; Gaz. vol. 145; p. 999.  
 Lamp, Electric. I. Ladoff. No. 913,016; Feb. 23; Sp. p. 4117; Gaz. vol. 139; p. 747.  
 Lamp, Electric. D. D. Lockwood. No. 932,621; Aug. 31; Sp. p. 6349; Gaz. vol. 145; p. 1095.  
 Lamp, Electric. G. L. Van Wart. No. 936,747; Oct. 12; Sp. p. 2407; Gaz. vol. 147; p. 400.  
 Lamp Electric-arc. W. R. Ridings. No. 913,308; Feb. 23; Sp. p. 4717; Gaz. vol. 139; p. 845.  
 Lamp, Electric-arc. C. Oliver. No. 914,868; Mar. 9; Sp. p. 2553; Gaz. vol. 140; p. 426.  
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 Lamp, Electric-arc. R. Fleming and C. A. B. Halvorson, Jr. No. 914,939; Mar. 9; Sp. p. 2671; Gaz. vol. 140; p. 448.  
 Lamp, Electric-arc. B. Monasch. No. 917,099; Apr. 6; Sp. p. 278; Gaz. vol. 141; p. 50.  
 Lamp, Electric-arc. C. J. Toerring. No. 920,220; May 4; Sp. p. 258; Gaz. vol. 142; p. 41.  
 Lamp, Electric-arc. L. O. Kozar. No. 923,127; May 25; Sp. p. 6266; Gaz. vol. 142; p. 1084.  
 Lamp, Electric-arc. W. S. Weedon. No. 926,792; July 6; Sp. p. 170; Gaz. vol. 144; p. 29.  
 Lamp, Electric-arc. T. Spencer. No. 927,010; July 6; Sp. p. 629; Gaz. vol. 144; p. 103.  
 Lamp, Electric-arc. J. B. Fournier. No. 932,773; Aug. 31; Sp. p. 6678; Gaz. vol. 145; p. 1146.  
 Lamp, Electric-arc. A. D. Jones. No. 935,518; Sept. 28; Sp. p. 5124; Gaz. vol. 146; p. 900.  
 Lamp, Electric glow-. H. Remané, E. Hurwitz, and E. Gottschalk. No. 919,381; Apr. 27; Sp. p. 5196; Gaz. vol. 141; p. 901.  
 Lamp, Electric glow-. G. K. Hartung. No. 930,958; Aug. 10; Sp. p. 2759; Gaz. vol. 145; p. 469.  
 Lamp electrode, Arc-. F. Kalkner. No. 916,877; Mar. 30; Sp. p. 6491; Gaz. vol. 140; p. 1159.  
 Lamp-extinguisher. C. Maes and J. Y. Armijo. No. 912,864; Feb. 16; Sp. p. 3819; Gaz. vol. 139; p. 673.  
 Lamp-extinguisher. R. Jr., and J. F. Stokes. No. 921,633; May 11; Sp. p. 3168; Gaz. vol. 142; p. 541.  
 Lamp-extinguisher. H. A. Boyington. No. 923,622; June 1; Sp. p. 1144; Gaz. vol. 143; p. 175.  
 Lamp-extinguisher, Gas-. J. Simmerman. No. 930,422; Aug. 10; Sp. p. 1610; Gaz. vol. 145; p. 292.  
 Lamp filament, Electric glow-. H. Kužel. No. 914,354; Mar. 2; Sp. p. 1486; Gaz. vol. 140; p. 231.  
 Lamp filament, Electric-incandescent-. J. Schilling. No. 917,159; Apr. 6; Sp. p. 408; Gaz. vol. 141; p. 71.  
 Lamp filaments, Forming electric-incandescent-. W. von Bolton and F. Hartmann. No. 930,723; Aug. 10; Sp. p. 2259; Gaz. vol. 145; p. 393.  
 Lamp filaments, Manufacturing electric-. W. von Bolton. No. 927,935; July 13; Sp. p. 2578; Gaz. vol. 144; p. 439.  
 Lamp filaments, Solder for incandescent-. H. Kužel. No. 912,245; Feb. 9; Sp. p. 2473; Gaz. vol. 139; p. 426.  
 Lamp-filling receptacle, Automatic. J. A. Keller. No. 932,026; Aug. 24; Sp. p. 5112; Gaz. vol. 145; p. 874.  
 Lamp fixture, Electrical-. N. Weeks. No. 912,514; Feb. 16; Sp. p. 3081; Gaz. vol. 139; p. 554.  
 Lamp, Flaming arc-. G. L. Martin and A. W. Schreiner. No. 942,730; Dec. 7; Sp. p. 1445; Gaz. vol. 149; p. 236.  
 Lamp, Flash-. R. W. Phelps and W. L. Harding. No. 917,485; Apr. 6; Sp. p. 1035; Gaz. vol. 141; p. 181.  
 Lamp flexible cable. E. J. Guay. No. 937,435; Oct. 19; Sp. p. 3848; Gaz. vol. 147; p. 655.  
 Lamp for automobiles, Automatic swivel-. J. O. Spang. No. 922,055; May 18; Sp. p. 4043; Gaz. vol. 142; p. 707.  
 Lamp for dental, medical, or surgical purposes, Aseptic. D. Stern. No. 940,831; Nov. 23; Sp. p. 5299; Gaz. vol. 148; p. 899.  
 Lamp for road-vehicles. C. Rogers and G. T. Parker. No. 929,711; Aug. 3; Sp. p. 149; Gaz. vol. 145; p. 27.  
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- Lamp, Gas-. J. and G. Keith. No. 917,876; Apr. 13; Sp. p. 1841; Gaz. vol. 141; p. 336.
- Lamp, Gas-. J. A. Brandt. No. 919,312; Apr. 27; Sp. p. 5050; Gaz. vol. 141; p. 877.
- Lamp, Gas-. A. C. Noad. No. 919,932; Apr. 27; Sp. p. 6361; Gaz. vol. 141; p. 1087.
- Lamp, Gas-. A. H. Humphrey. No. 922,907; May 25; Sp. p. 5805; Gaz. vol. 142; p. 1012.
- Lamp, Gas-. C. W. Boyse. No. 928,899; July 20; Sp. p. 4542; Gaz. vol. 144; p. 792.
- Lamp, Gas-. A. H. and F. J. Humphrey and R. Wright. No. 933,177; Sept. 7; Sp. p. 299; Gaz. vol. 146; p. 50.
- Lamp, Gas-. J. G. Kotrba and P. W. Freese. No. 934,737; Sept. 21; Sp. p. 3545; Gaz. vol. 146; p. 617.
- Lamp, Gas or vapor electric. H. C. Hewitt. No. 939,912; Nov. 9; Sp. p. 3216; Gaz. vol. 148; p. 530.
- Lamp, Gasolene-. J. K. Norstrom. No. 915,692; Mar. 16; Sp. p. 4214; Gaz. vol. 140; p. 726.
- Lamp, Gasolene or vapor. O. A. Arneson. No. 930,020; Aug. 3; Sp. p. 837; Gaz. vol. 145; p. 135.
- Lamp-globe. J. L. Dinsmoor. No. 923,155; June 1; Sp. p. 75; Gaz. vol. 143; p. 12.
- Lamp-globe. A. H. Humphrey. No. 940,530; Nov. 16; Sp. p. 4629; Gaz. vol. 148; p. 772.
- Lamp-globe. C. T. Schrader. No. 944,348; Dec. 28; Sp. p. 4957; Gaz. vol. 149; p. 874.
- Lamp-guard. W. T. Russell. No. 914,190; Mar. 2; Sp. p. 1153; Gaz. vol. 140; p. 180.
- Lamp-guard, Portable. W. T. Russell. No. 943,792; Dec. 21; Sp. p. 3785; Gaz. vol. 149; p. 659.
- Lamp having magnetizable electrodes, Arc-. G. M. Little. No. 933,769; Sept. 14; Sp. p. 1552; Gaz. vol. 146; p. 273.
- Lamp headlight, Arc-. B. B. Lacy. No. 911,409; Feb. 2; Sp. p. 746; Gaz. vol. 139; p. 129.
- Lamp heat, Shelf for utilizing. L. C. Brown. No. 919,534; Apr. 27; Sp. p. 5544; Gaz. vol. 141; p. 953.
- Lamp-heating attachment. J. C. Drew. No. 916,424; Mar. 30; Sp. p. 5609; Gaz. vol. 140; p. 1016.
- Lamp-holder. H. L. Erlandsson. No. 921,815; May 18; Sp. p. 3545; Gaz. vol. 142; p. 629.
- Lamp-holder, Adjustable. L. E. Hall. No. 926,114; June 29; Sp. p. 6339; Gaz. vol. 143; p. 1125.
- Lamp holder, Incandescent-electric. F. Walker. No. 910,158; Jan. 19; Sp. p. 3472; Gaz. vol. 138; p. 635.
- Lamp-holding attachment for miners' caps. C. R. Anderson. No. 938,942; Nov. 2; Sp. p. 1076; Gaz. vol. 148; p. 171.
- Lamp-holding device, Plural-. R. B. Benjamin. No. 942,240; Dec. 7; Sp. p. 454; Gaz. vol. 149; p. 70.
- Lamp-holding device, Plural-. R. B. Benjamin. No. 942,242; Dec. 7; Sp. p. 461; Gaz. vol. 149; p. 71.
- Lamp, Hydrocarbon-. M. W. Pitner. No. 919,075; Apr. 20; Sp. p. 4380; Gaz. vol. 141; p. 765.
- Lamp, Hydrocarbon incandescent. H. H. Eason. No. 914,709; Mar. 9; Sp. p. 2223; Gaz. vol. 140; p. 373.
- Lamp, Hydrocarbon incandescent. A. B. Young and S. L. Jones. No. 930,714; Aug. 10; Sp. p. 2240; Gaz. vol. 145; p. 390.
- Lamp, Hydrocarbon inverted-mantle. O. J. Seehausen. No. 912,185; Feb. 9; Sp. p. 2356; Gaz. vol. 139; p. 407.
- Lamp-igniter. W. D. Jones. No. 944,875; Dec. 28; Sp. p. 6138; Gaz. vol. 149; p. 1056.
- Lamp, Illuminating sign-. J. G. Saffig. No. 912,178; Feb. 9; Sp. p. 2345; Gaz. vol. 139; p. 405.
- Lamp, Incandescent. M. M. Merritt. No. 909,438; Jan. 12; Sp. p. 2032; Gaz. vol. 138; p. 361.
- Lamp, Incandescent. M. M. Merritt. No. 909,812; Jan. 12; Sp. p. 2775; Gaz. vol. 138; p. 488.
- Lamp, Incandescent. H. R. Sargent. No. 919,474; Apr. 27; Sp. p. 5419; Gaz. vol. 141; p. 933.
- Lamp, Incandescent. R. McNeill. No. 923,797; June 1; Sp. p. 1567; Gaz. vol. 143; p. 234.
- Lamp, Incandescent. C. C. Woodworth. No. 925,790; June 22; Sp. p. 5666; Gaz. vol. 143; p. 983.
- Lamp, Incandescent. E. H. Smith. No. 931,807; Aug. 24; Sp. p. 4625; Gaz. vol. 145; p. 802.
- Lamp, Incandescent. R. Matheson. No. 932,486; Aug. 31; Sp. p. 6047; Gaz. vol. 145; p. 1049.
- Lamp, Incandescent. E. H. Smith. No. 934,024; Sept. 14; Sp. p. 2144; Gaz. vol. 146; p. 355.
- Lamp, Incandescent. R. D. Tiffany. No. 941,593; Nov. 30; Sp. p. 6918; Gaz. vol. 148; p. 1171.
- Lamp, Incandescent. C. H. Crutcheff. No. 944,667; Dec. 28; Sp. p. 5678; Gaz. vol. 149; p. 985.
- Lamp, Incandescent electric. C. Farkas and H. J. Jaeger. No. 933,539; Sept. 7; Sp. p. 1191; Gaz. vol. 146; p. 173.
- Lamp, Incandescent gas-. D. F. Johnson. No. 910,202; Jan. 19; Sp. p. 3584; Gaz. vol. 138; p. 650.
- Lamp, Incandescent gas-. H. E. Woods. No. 913,088; Feb. 23; Sp. p. 4258; Gaz. vol. 139; p. 772.
- Lamp, Incandescent gas-. M. Herskovitz. No. 919,430; Apr. 27; Sp. p. 5302; Gaz. vol. 141; p. 917.
- Lamp, Incandescent gas-. H. M. Eagon. No. 923,631; June 1; Sp. p. 1158; Gaz. vol. 143; p. 178.
- Lamp, Incandescent gas-. H. Blau. No. 927,770; July 13; Sp. p. 2217; Gaz. vol. 144; p. 384.
- Lamp, Incandescent gas-. O. Wiederhold. No. 930,822; Aug. 10; Sp. p. 2460; Gaz. vol. 145; p. 426.
- Lamp, Incandescent gas-. C. W. Harrison. No. 934,309; Sept. 14; Sp. p. 2708; Gaz. vol. 146; p. 450.
- Lamp, Incandescent gas-. A. Rector. No. 936,476; Oct. 12; Sp. p. 1855; Gaz. vol. 147; p. 308.
- Lamp, Incandescent gas-. O. Wiederhold. No. 936,501; Oct. 12; Sp. p. 1914; Gaz. vol. 147; p. 316.
- Lamp, Incandescent gas-. J. Maas. No. 938,602; Nov. 2; Sp. p. 366; Gaz. vol. 148; p. 54.
- Lamp, Incandescent petroleum-. A. B. Krzywiec. No. 927,804; July 13; Sp. p. 2283; Gaz. vol. 144; p. 395.
- Lamp, Inverted. P. B. Johnson. No. 933,734; Sept. 7; Sp. p. 1593; Gaz. vol. 146; p. 241.
- Lamp, Inverted gas-. F. M. Brooks. No. 910,780; Jan. 26; Sp. p. 4813; Gaz. vol. 138; p. 870.
- Lamp, Inverted gas-. C. L. Duengel. No. 936,098; Oct. 5; Sp. p. 1046; Gaz. vol. 147; p. 159.
- Lamp, Inverted gas arc-. S. W. Hyatt. No. 933,252; Sept. 7; Sp. p. 512; Gaz. vol. 146; p. 78.
- Lamp, Inverted hydrocarbon-vapor. J. J. Meyer. No. 918,071; Apr. 13; Sp. p. 2262; Gaz. vol. 141; p. 406.
- Lamp, Inverted incandescent gas-. O. Wiederhold. No. 923,469; June 1; Sp. p. 800; Gaz. vol. 143; p. 119.
- Lamp, Inverted incandescent gas-. J. W. Hosler. No. 923,972; June 8; Sp. p. 1923; Gaz. vol. 143; p. 321.
- Lamp, Inverted incandescent gas-. A. J. Hofmann. No. 933,176; Sept. 7; Sp. p. 295; Gaz. vol. 146; p. 49.
- Lamp-jack. T. H. Garland. No. 909,883; Jan. 19; Sp. p. 2925; Gaz. vol. 138; p. 544.
- Lamp, Kerosene incandescent. J. A. Mathes. No. 913,746; Mar. 2; Sp. p. 146; Gaz. vol. 140; p. 25.
- Lamp, Kerosene incandescent. B. F. Roehrig. No. 916,889; Mar. 30; Sp. p. 6510; Gaz. vol. 140; p. 1163.
- Lamp light-regulator, Electric-. T. E. Murray. No. 913,753; Mar. 2; Sp. p. 163; Gaz. vol. 140; p. 27.
- Lamp-lighter, Automatic. L. J. Graham. No. 943,873; Dec. 21; Sp. p. 3949; Gaz. vol. 149; p. 687.
- Lamp lighting and extinguishing system Gas-. A. Grossmann. No. 931,412; Aug. 17; Sp. p. 3786; Gaz. vol. 145; p. 654.
- Lamp mask, Automobile. H. D. Penney. No. 929,627; July 27; Sp. p. 6039; Gaz. vol. 144; p. 1057.
- Lamp, Mercury and other vapor electric. H. A. Kent and H. G. Lacell. No. 939,708; Nov. 9; Sp. p. 2780; Gaz. vol. 148; p. 459.
- Lamp, Mercury or other vapor electric. H. A. Kent and H. G. Lacell. No. 923,124; May 25; Sp. p. 6257; Gaz. vol. 142; p. 1082.
- Lamp, Metal-filament electric glow-. H. Kuzel. No. 912,247; Feb. 9; Sp. p. 2476; Gaz. vol. 139; p. 426.
- Lamp, Miner's. C. B. Rimmel. No. 920,882; May 4; Sp. p. 1616; Gaz. vol. 142; p. 258.
- Lamp, Miner's. A. Brile. No. 925,077; June 15; Sp. p. 4231; Gaz. vol. 143; p. 721.
- Lamp, Miner's. A. M. Van Liew. No. 934,243; Sept. 14; Sp. p. 2589; Gaz. vol. 146; p. 429.
- Lamp, Miner's. O. M. Müller. No. 935,219; Sept. 28; Sp. p. 4514; Gaz. vol. 146; p. 803.
- Lamp, Miner's. J. and A. M. Van Liew. No. 941,897; Nov. 30; Sp. p. 7589; Gaz. vol. 148; p. 1277.
- Lamp, Miner's. R. L. Graves. No. 942,823; Dec. 7; Sp. p. 1625; Gaz. vol. 149; p. 267.
- Lamp, Miner's. T. A. Black. No. 944,171; Dec. 21; Sp. p. 4594; Gaz. vol. 149; p. 785.
- Lamp, Miner's electric. H. Remané. No. 939,630; Nov. 9; Sp. p. 2620; Gaz. vol. 148; p. 431.
- Lamp, Miner's safety-. E. A. Hailwood. No. 908,769; Jan. 5; Sp. p. 718; Gaz. vol. 138; p. 112.
- Lamp, Motor-car and other. H. Cole. No. 917,844; Apr. 13; Sp. p. 1768; Gaz. vol. 141; p. 325.
- Lamp mounts, Machine for making incandescent-. J. E. Graybill. No. 919,851; Apr. 27; Sp. p. 6207; Gaz. vol. 141; p. 1059.
- Lamp, Multiple-arc. W. Mathisen. No. 920,485; May 4; Sp. p. 784; Gaz. vol. 142; p. 127.
- Lamp, Night-. G. W. Ferdon. No. 916,399; Mar. 23; Sp. p. 5554; Gaz. vol. 140; p. 984.
- Lamp, Oil-. C. E. Adair. No. 931,712; Aug. 24; Sp. p. 4425; Gaz. vol. 145; p. 771.
- Lamp operating device, Vehicle-. J. P. Stein. No. 941,739; Nov. 30; Sp. p. 7242; Gaz. vol. 148; p. 1221.
- Lamp operating mechanism. A. R. Warfield and J. B. Nicholson. No. 935,437; Sept. 28; Sp. p. 4945; Gaz. vol. 146; p. 873.
- Lamp-oscillator. G. Rintup. No. 923,996; June 8; Sp. p. 1976; Gaz. vol. 143; p. 328.
- Lamp, Plural-arc. R. B. Levy. No. 916,462; Mar. 30; Sp. p. 5704; Gaz. vol. 140; p. 1029.
- Lamp, Pocket electric incandescent. F. Blau. No. 916,833; Mar. 30; Sp. p. 6406; Gaz. vol. 140; p. 1145.
- Lamp, Portable. O. A. Loveless. No. 929,454; July 27; Sp. p. 5699; Gaz. vol. 144; p. 1000.
- Lamp pressure-burner, Petroleum-incandescent-. O. Grönbladh. No. 916,438; Mar. 30; Sp. p. 5638; Gaz. vol. 140; p. 1021.
- Lamp prism, Electric-. J. C. Zubli. No. 909,507; Jan. 12; Sp. p. 2182; Gaz. vol. 138; p. 387.
- Lamp receptacle, Electric-. G. L. Patterson and J. B. Farrell. No. 909,326; Jan. 12; Sp. p. 1824; Gaz. vol. 138; p. 327.
- Lamp receptacle, Incandescent-. H. C. Wirt. No. 917,229; Apr. 6; Sp. p. 545; Gaz. vol. 141; p. 95.
- Lamp receptacle, Multiple-cluster-. F. S. Ober. No. 925,880; June 22; Sp. p. 5760; Gaz. vol. 143; p. 997.
- Lamp refractor and shade. G. H. Ricke. No. 916,372; Mar. 23; Sp. p. 5486; Gaz. vol. 140; p. 974.
- Lamp, Safety-. N. B. Ippolito. No. 909,415; Jan. 12; Sp. p. 1994; Gaz. vol. 138; p. 354.
- Lamp, Safety-. N. B. Ippolito. No. 909,416; Jan. 12; Sp. p. 1995; Gaz. vol. 138; p. 354.
- Lamp safety attachment. A. Karnat. No. 927,974; July 13; Sp. p. 2652; Gaz. vol. 144; p. 451.
- Lamp-shade. W. J. Gray. No. 925,897; June 22; Sp. p. 5900; Gaz. vol. 143; p. 1019.



*Alphabetical list of inventions—Continued.*

- Lamp-shade, Art. F. S. Verbeck. No. 938,093; Oct. 26; Sp. p. 5214; Gaz. vol. 147; p. 893.  
 Lamp shade, Electric-. N. C. Bebin. No. 940,649; Nov. 16; Sp. p. 4881; Gaz. vol. 148; p. 812.  
 Lamp-shade holder. W. V. R. Seltzer. No. 933,125; Sept. 7; Sp. p. 184; Gaz. vol. 146; p. 31.  
 Lamp shade-holder, Electric-. G. E. Palmer. No. 932,893; Aug. 31; Sp. p. 6893; Gaz. vol. 145; p. 1184.  
 Lamp-shade support, Electric-. R. S. Furniss. No. 925,086; June 15; Sp. p. 4253; Gaz. vol. 143; p. 724.  
 Lamp, Signal-. P. A. Kingston. No. 916,717; Mar. 30; Sp. p. 6197; Gaz. vol. 140; p. 1110.  
 Lamp, Signal-. H. Wheeler. No. 932,207; Aug. 24; Sp. p. 5484; Gaz. vol. 145; p. 934.  
 Lamp-socket. R. B. Benjamin. No. 916,829; Mar. 30; Sp. p. 6398; Gaz. vol. 140; p. 1144.  
 Lamp-socket. J. R. Byrnes. No. 918,654; Apr. 20; Sp. p. 3507; Gaz. vol. 141; p. 627.  
 Lamp-socket. W. H. Kempton. No. 932,139; Aug. 24; Sp. p. 5347; Gaz. vol. 145; p. 911.  
 Lamp-socket and automatic switch, Combined. J. W. Phelps. No. 937,858; Oct. 26; Sp. p. 4715; Gaz. vol. 147; p. 815.  
 Lamp socket and bulb remover and replacer, Electric-. D. L. Webb. No. 927,908; July 13; Sp. p. 2521; Gaz. vol. 144; p. 430.  
 Lamp socket and switch, Incandescent-. I. L. Cash. No. 932,246; Aug. 24; Sp. p. 5561; Gaz. vol. 145; p. 947.  
 Lamp socket, Cluster-. R. B. Benjamin. No. 931,722; Aug. 24; Sp. p. 4446; Gaz. vol. 145; p. 774.  
 Lamp socket, Cluster-. W. C. Jones. No. 934,542; Sept. 21; Sp. p. 3157; Gaz. vol. 146; p. 551.  
 Lamp socket, Cluster-. H. J. S. Lewis. No. 936,463; Oct. 12; Sp. p. 1826; Gaz. vol. 147; p. 303.  
 Lamp socket, Cluster-. R. B. Benjamin. No. 936,512; Oct. 12; Sp. p. 1935; Gaz. vol. 147; p. 319.  
 Lamp socket, Cluster-. R. B. Benjamin. No. 938,632; Nov. 2; Sp. p. 420; Gaz. vol. 148; p. 64.  
 Lamp socket, Electric-. V. E. Extrom and C. H. Grundy. No. 910,185; Jan. 19; Sp. p. 3544; Gaz. vol. 138; p. 645.  
 Lamp socket, Electric-. W. G. Lindemann. No. 926,754; July 6; Sp. p. 101; Gaz. vol. 144; p. 16.  
 Lamp socket, Electric-. J. McGavin. No. 929,463; July 27; Sp. p. 5719; Gaz. vol. 144; p. 1003.  
 Lamp socket, Electric-. F. P. Poole. No. 944,208; Dec. 21; Sp. p. 4659; Gaz. vol. 149; p. 798.  
 Lamp-socket fastening, Electric-. H. Christensen. No. 938,212; Oct. 26; Sp. p. 5472; Gaz. vol. 147; p. 935.  
 Lamp socket, Incandescent-. W. C. Tregoning. No. 918,102; Apr. 13; Sp. p. 2319; Gaz. vol. 141; p. 416.  
 Lamp socket, Incandescent-. F. E. Seeley. No. 918,477; Apr. 13; Sp. p. 3070; Gaz. vol. 141; p. 539.  
 Lamp socket, Incandescent-. A. L. Williams. No. 921,935; May 18; Sp. p. 3795; Gaz. vol. 142; p. 667.  
 Lamp socket, Incandescent-. H. A. Bretz. No. 938,038; Oct. 26; Sp. p. 5083; Gaz. vol. 147; p. 875.  
 Lamp socket, Incandescent-. F. W. Slady. No. 941,174; Nov. 23; Sp. p. 6026; Gaz. vol. 148; p. 1013.  
 Lamp socket, Incandescent-. L. Dörner and G. H. Norquist. No. 943,772; Dec. 21; Sp. p. 3746; Gaz. vol. 149; p. 652.  
 Lamp socket, Incandescent-electric-. A. Weber, Sr. No. 915,135; Mar. 16; Sp. p. 3079; Gaz. vol. 140; p. 540.  
 Lamp socket, Incandescent-electric-. A. Sr., A. Jr., and J. Weber. No. 916,812; Mar. 30; Sp. p. 6368; Gaz. vol. 140; p. 1138.  
 Lamp socket, Incandescent-electric-. D. E. Bown. No. 921,199; May 11; Sp. p. 2254; Gaz. vol. 142; p. 397.  
 Lamp-socket keys, Cam for. G. B. Thomas. No. 913,584; Feb. 23; Sp. p. 5302; Gaz. vol. 139; p. 938.  
 Lamp-socket lock, Incandescent-. A. L. Lowe. No. 923,284; June 1; Sp. p. 398; Gaz. vol. 143; p. 56.  
 Lamp-socket, Multiple. L. J. Castonguay. No. 911,475; Feb. 2; Sp. p. 853; Gaz. vol. 139; p. 150.  
 Lamp-socket, Plural. R. B. Benjamin. No. 912,529; Feb. 16; Sp. p. 3117; Gaz. vol. 139; p. 560.  
 Lamp-socket, Plural. R. B. Benjamin. No. 916,909; Mar. 30; Sp. p. 6565; Gaz. vol. 140; p. 1170.  
 Lamp-socket, Plural. R. B. Benjamin. (Reissue.) No. 12,931; Mar. 30; Sp. p. 6672; Gaz. vol. 140; p. 1189.  
 Lamp-socket, Plural. R. B. Benjamin. No. 931,721; Aug. 24; Sp. p. 4442; Gaz. vol. 145; p. 774.  
 Lamp-socket, Plural. R. B. Benjamin. No. 942,241; Dec. 7; Sp. p. 459; Gaz. vol. 149; p. 71.  
 Lamp-socket retainer, Electric-. H. Christensen. No. 938,213; Oct. 26; Sp. p. 5473; Gaz. vol. 147; p. 936.  
 Lamp-socket switch, Incandescent-. W. A. McDonald. No. 941,941; Nov. 30; Sp. p. 7669; Gaz. vol. 148; p. 1291.  
 Lamp-socket, Weatherproof. H. T. Hochhausen. No. 921,836; May 18; Sp. p. 3607; Gaz. vol. 142; p. 636.  
 Lamp-sockets, Adjustable casing for. E. H. Freeman. No. 927,344; July 6; Sp. p. 1295; Gaz. vol. 144; p. 213.  
 Lamp sockets, Means for attaching electric-. W. S. Stapley. No. 917,372; Apr. 6; Sp. p. 841; Gaz. vol. 141; p. 144.  
 Lamp sockets, &c., Strain-relieving means for terminals of. F. A. Swan. No. 935,705; Oct. 5; Sp. p. 179; Gaz. vol. 147; p. 28.  
 Lamp, Spirit-. S. N. Turner and C. F. A. Locke. No. 914,900; Mar. 9; Sp. p. 2611; Gaz. vol. 140; p. 437.  
 Lamp-starting means, Arc-. G. M. Little. No. 917,778; Apr. 13; Sp. p. 1642; Gaz. vol. 141; p. 305.  
 Lamp suspension device, Electric-arc-. A. Wunderlich. No. 935,136; Sept. 28; Sp. p. 4359; Gaz. vol. 146; p. 778.  
 Lamp switch, Electric-. E. A. Lefebvre, Jr., and W. I. Miller. No. 932,792; Aug. 31; Sp. p. 6714; Gaz. vol. 145; p. 1151.  
 Lamp switching device, Electric-. C. A. Eimer. No. 922,406; May 18; Sp. p. 4741; Gaz. vol. 142; p. 822.  
 Lamp-testing machine, Incandescent-. T. W. Frech, Jr. No. 922,123; May 18; Sp. p. 4168; Gaz. vol. 142; p. 728.  
 Lamp, Therapeutic. E. W. Locke. No. 909,627; Jan. 12; Sp. p. 2413; Gaz. vol. 138; p. 427.  
 Lamp tool, Incandescent-electric-. E. F. Dwyer. No. 910,275; Jan. 19; Sp. p. 3773; Gaz. vol. 138; p. 679.  
 Lamp union-coupling. R. H. Welles. No. 926,528; June 29; Sp. p. 7146; Gaz. vol. 143; p. 1262.  
 Lamp, Vapor-. A. A. Warner. No. 913,789; Mar. 2; Sp. p. 240; Gaz. vol. 140; p. 40.  
 Lamp, Vapor-burning. E. J. Parsons. No. 920,172; May 4; Sp. p. 151; Gaz. vol. 142; p. 24.  
 Lamp, Vapor-burning. R. W. Zierlein. No. 930,451; Aug. 10; Sp. p. 1663; Gaz. vol. 145; p. 301.  
 Lamp, Vapor electric. S. Ferguson. No. 924,975; June 15; Sp. p. 4039; Gaz. vol. 143; p. 688.  
 Lamp, Vehicle-. H. W. Beebe. No. 925,676; June 22; Sp. p. 5395; Gaz. vol. 143; p. 945.  
 Lamp, Vehicle-. J. K. Punderford. No. 925,720; June 22; Sp. p. 5499; Gaz. vol. 143; p. 959.  
 Lamp, Vehicle-. J. K. Punderford. No. 925,721; June 22; Sp. p. 5500; Gaz. vol. 143; p. 959.  
 Lamp, Vehicle-. F. C. Ahrens. No. 940,915; Nov. 23; Sp. p. 5462; Gaz. vol. 148; p. 926.  
 Lamp-wick, Safety. J. C. Smith. No. 911,622; Feb. 9; Sp. p. 1184; Gaz. vol. 139; p. 225.  
 Lamp-working apparatus. W. F. Hutchinson. No. 930,670; Aug. 10; Sp. p. 2153; Gaz. vol. 145; p. 376.  
 Lamp-working apparatus. T. C. Luce and C. R. Silvernail. No. 937,005; Oct. 12; Sp. p. 2909; Gaz. vol. 147; p. 485.  
 Lamp-working apparatus for vehicles. W. F. Hutchinson. No. 930,669; Aug. 10; Sp. p. 2152; Gaz. vol. 145; p. 376.  
 Lamps, Adjustable support for vapor-. S. E. Flichtner. No. 926,057; June 22; Sp. p. 6203; Gaz. vol. 143; p. 1071.  
 Lamps, Adjustable suspension-cord for electric. T. W. Trotter. No. 938,802; Nov. 2; Sp. p. 755; Gaz. vol. 148; p. 122.  
 Lamps and lanterns, Wick-adjusting mechanism for. J. Kleinberger and R. Stern. No. 944,967; Dec. 28; Sp. p. 6312; Gaz. vol. 149; p. 1084.  
 Lamps and the like, Pressure-regulator for. M. F. McCarthy. No. 921,272; May 11; Sp. p. 2402; Gaz. vol. 142; p. 420.  
 Lamps, Bunsen burner for incandescent gas-. M. Jacobs. No. 928,453; July 20; Sp. p. 3652; Gaz. vol. 144; p. 643.  
 Lamps, Carriage for electric. R. S. Beard. No. 943,174; Dec. 14; Sp. p. 2459; Gaz. vol. 149; p. 418.  
 Lamps, Ceiling-rosette for drop electric. W. Wilbraham. No. 921,038; May 11; Sp. p. 1917; Gaz. vol. 142; p. 336.  
 Lamps, Cluster-fixture for electric. P. H. Jaehnig. No. 921,408; May 11; Sp. p. 2709; Gaz. vol. 142; p. 466.  
 Lamps, Decarbonizing filaments for incandescent. H. Zerning. No. 908,930; Jan. 5; Sp. p. 1025; Gaz. vol. 138; p. 164.  
 Lamps, Electrically lighting up gas-. A. E. Hacking. No. 932,273; Aug. 24; Sp. p. 5609; Gaz. vol. 145; p. 957.  
 Lamps, Exhausting-. M. M. Merritt. No. 909,811; Jan. 12; Sp. p. 2772; Gaz. vol. 138; p. 488.  
 Lamps, Gas-chamber for arc-. E. P. Warner and C. Wiler. No. 929,354; July 27; Sp. p. 5541; Gaz. vol. 144; p. 971.  
 Lamps, Incandescent body for electric glow-. W. V. Bolton. No. 915,657; Mar. 16; Sp. p. 4143; Gaz. vol. 140; p. 715.  
 Lamps, Locking device for miners'. O. M. Müller. No. 921,868; May 18; Sp. p. 3669; Gaz. vol. 142; p. 646.  
 Lamps, Making filaments for electric incandescent. W. von Bolton. No. 936,403; Oct. 12; Sp. p. 1675; Gaz. vol. 147; p. 284.  
 Lamps, Manufacture of glowing bodies of refractory metals for electric. A. Lederer. No. 908,682; Jan. 5; Sp. p. 538; Gaz. vol. 138; p. 83.  
 Lamps, Mask for automobile-. H. D. Penney. No. 921,449; May 11; Sp. p. 2789; Gaz. vol. 142; p. 479.  
 Lamps, Mask for automobile-. H. D. Penney. (Reissue.) No. 12,983; June 29; Sp. p. 7538; Gaz. vol. 143; p. 1327.  
 Lamps, Means for igniting and controlling vehicle-. A. A. Clark. No. 933,694; Sept. 7; Sp. p. 1495; Gaz. vol. 146; p. 225.  
 Lamps or headlights, Mechanism for vehicle. A. P. Prendergast. No. 942,217; Dec. 7; Sp. p. 406; Gaz. vol. 149; p. 62.  
 Lamps, Pressure-controlling valve for automobile-. F. C. Bargar. No. 942,995; Dec. 14; Sp. p. 2081; Gaz. vol. 143; p. 358.  
 Lamps, Producing metallic incandescent bodies for electric glow-. F. Blau. No. 916,659; Mar. 30; Sp. p. 6099; Gaz. vol. 140; p. 1093.  
 Lamps, Sealing filament-carriers into bulbs of electric incandescent. J. Kremenezky. No. 941,996; Nov. 30; Sp. p. 7767; Gaz. vol. 148; p. 1309.  
 Lamps, &c., Spring-catch for. H. E. Harbaugh. No. 926,560; June 29; Sp. p. 7198; Gaz. vol. 144; p. 1273.  
 Lamps, Supplemental light for. E. E. Taylor and D. H. Elkins. No. 926,082; June 22; Sp. p. 6288; Gaz. vol. 143; p. 1080.  
 Lamps, System of lighting by arc-. R. Fleming. No. 910,658; Jan. 26; Sp. p. 4577; Gaz. vol. 138; p. 832.  
 Lamps, Treating metallic filaments for electric incandescent. W. Majert. No. 926,069; June 22; Sp. p. 6241; Gaz. vol. 143; p. 1075.  
 Lamps, Weatherproof socket for electric. G. W. Goodridge. No. 933,644; Sept. 7; Sp. p. 1381; Gaz. vol. 146; p. 207.  
 Lamps within their holders, Means for locking electric. H. W. Roy and A. Weber. No. 934,760; Sept. 21; Sp. p. 3585; Gaz. vol. 146; p. 625.  
 Lamplighter. J. I. Bond. No. 914,631; Mar. 9; Sp. p. 2048; Gaz. vol. 140; p. 349.  
 Land-clearing machine. T. Rustad. No. 934,363; Sept. 14; Sp. p. 2807; Gaz. vol. 146; p. 468.  
 Land-drainer, Mechanical. J. Scott. No. 943,571; Dec. 14; Sp. p. 3287; Gaz. vol. 149; p. 554.  
 Land-roller. F. L. Gaines. No. 918,992; Apr. 20; Sp. p. 4239; Gaz. vol. 141; p. 740.



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- Land-roller. C. H. Slankard. No. 919,967; Apr. 27; Sp. p. 6425; Gaz. vol. 141; p. 1098.  
 Land-roller. J. Hessenauer. No. 923,431; June 1; Sp. p. 718; Gaz. vol. 143; p. 105.  
 Land-roller. E. Englund. No. 941,770; Nov. 30; Sp. p. 7316; Gaz. vol. 148; p. 1232.  
 Land-roller. W. J. Dunham. No. 942,892; Dec. 14; Sp. p. 1830; Gaz. vol. 149; p. 322.  
 Land roller and pulverizer. W. Pfarrer. No. 914,453; Mar. 9; Sp. p. 1690; Gaz. vol. 140; p. 289.  
 Land roller, pulverizer, and seed-planter, Combined. V. D. Curtis. No. 925,565; June 22; Sp. p. 5159; Gaz. vol. 143; p. 910.  
 Landaus, Folding post for. W. B. Pond. No. 943,705; Dec. 21; Sp. p. 3616; Gaz. vol. 149; p. 629.  
 Lantern. W. S. Hamm. No. 910,672; Jan. 26; Sp. p. 4596; Gaz. vol. 138; p. 836.  
 Lantern. W. S. Hamm. No. 910,673; Jan. 26; Sp. p. 4597; Gaz. vol. 138; p. 836.  
 Lantern. L. Herman. No. 910,681; Jan. 26; Sp. p. 4610; Gaz. vol. 138; p. 839.  
 Lantern. J. A. Mosher. No. 910,708; Jan. 26; Sp. p. 4661; Gaz. vol. 138; p. 847.  
 Lantern. G. H. Rolles. No. 913,981; Mar. 2; Sp. p. 700; Gaz. vol. 140; p. 109.  
 Lantern. W. S. Hamm. No. 915,595; Mar. 16; Sp. p. 3999; Gaz. vol. 140; p. 690.  
 Lantern. H. S. Dickinson and J. R. Tyler. No. 918,131; Apr. 13; Sp. p. 2381; Gaz. vol. 141; p. 426.  
 Lantern. C. K. Schade. No. 918,476; Apr. 13; Sp. p. 3068; Gaz. vol. 141; p. 539.  
 Lantern. W. S. Hamm. No. 920,053; Apr. 27; Sp. p. 6623; Gaz. vol. 141; p. 1126.  
 Lantern. C. Bergener. No. 920,525; May 4; Sp. p. 873; Gaz. vol. 142; p. 141.  
 Lantern. F. W. Koch and J. H. Mayforth. No. 922,598; May 25; Sp. p. 5149; Gaz. vol. 142; p. 913.  
 Lantern. C. I. Mitchell. No. 923,598; June 1; Sp. p. 410; Gaz. vol. 143; p. 58.  
 Lantern. W. S. Hamm. (Reissue.) No. 12,995; July 27; Sp. p. 6087; Gaz. vol. 144; p. 1064.  
 Lantern. J. Wise. No. 930,011; Aug. 3; Sp. p. 824; Gaz. vol. 145; p. 132.  
 Lantern. W. S. Hamm. No. 934,438; Sept. 21; Sp. p. 2969; Gaz. vol. 146; p. 518.  
 Lantern. M. C. Wells. No. 937,125; Oct. 19; Sp. p. 3159; Gaz. vol. 147; p. 555.  
 Lantern. J. O. Alwood. No. 937,748; Oct. 26; Sp. p. 4480; Gaz. vol. 147; p. 777.  
 Lantern. J. H. Pence. No. 939,542; Nov. 9; Sp. p. 2420; Gaz. vol. 148; p. 401.  
 Lantern. O. R. Henson. No. 941,922; Nov. 30; Sp. p. 7632; Gaz. vol. 148; p. 1285.  
 Lantern and heater, Combination. O. H. Armington. No. 939,377; Nov. 9; Sp. p. 2080; Gaz. vol. 148; p. 347.  
 Lantern attachment. O. A. Willett. No. 911,533; Feb. 2; Sp. p. 972; Gaz. vol. 139; p. 169.  
 Lantern-bail. C. E. Norton. No. 917,112; Apr. 6; Sp. p. 302; Gaz. vol. 141; p. 55.  
 Lantern, Beacon or anchor. F. P. Coulter. No. 925,563; June 22; Sp. p. 5157; Gaz. vol. 143; p. 909.  
 Lantern bell-tube. W. C. Embury. No. 919,145; Apr. 20; Sp. p. 4517; Gaz. vol. 141; p. 789.  
 Lantern-burner. W. S. Hamm. No. 910,671; Jan. 26; Sp. p. 4595; Gaz. vol. 138; p. 836.  
 Lantern-burner. W. S. Hamm. No. 919,347; Apr. 27; Sp. p. 5122; Gaz. vol. 141; p. 889.  
 Lantern-burner. A. F. Prahm. No. 931,342; Aug. 17; Sp. p. 3647; Gaz. vol. 145; p. 629.  
 Lantern, Cold-blast. K. L. Stendahl. No. 921,022; May 11; Sp. p. 1890; Gaz. vol. 142; p. 334.  
 Lantern construction. A. H. Handlan, Jr. No. 918,145; Apr. 13; Sp. p. 2407; Gaz. vol. 141; p. 431.  
 Lantern-frame. H. S. Boode. No. 911,369; Feb. 2; Sp. p. 677; Gaz. vol. 139; p. 116.  
 Lantern-frame. F. K. Wright. No. 920,889; May 4; Sp. p. 1627; Gaz. vol. 142; p. 260.  
 Lantern-guard. C. L. Betts. No. 923,483; June 1; Sp. p. 825; Gaz. vol. 143; p. 124.  
 Lantern-head. A. R. Pritchard. No. 935,324; Sept. 28; Sp. p. 4725; Gaz. vol. 146; p. 838.  
 Lantern or shade, Collapsible. C. Fleck. No. 932,772; Aug. 31; Sp. p. 6677; Gaz. vol. 145; p. 1146.  
 Lantern polychrome attachment. F. E. Kenney. No. 915,865; Mar. 23; Sp. p. 4551; Gaz. vol. 140; p. 808.  
 Lantern, Signal-. B. Seidel. No. 917,368; Apr. 6; Sp. p. 836; Gaz. vol. 141; p. 143.  
 Lantern, Signal-. H. G. Potts and C. Hauber. No. 937,646; Oct. 19; Sp. p. 4259; Gaz. vol. 147; p. 726.  
 Lantern, Signal-. J. J. McIntyre. No. 941,803; Nov. 30; Sp. p. 7385; Gaz. vol. 148; p. 1243.  
 Lantern, Signal-. G. P. Browne. No. 943,808; Dec. 21; Sp. p. 3824; Gaz. vol. 149; p. 665.  
 Lantern-top. D. C. Kline. No. 928,260; July 20; Sp. p. 3256; Gaz. vol. 144; p. 578.  
 Lantern-tube. C. L. Betts. No. 920,526; May 4; Sp. p. 875; Gaz. vol. 142; p. 141.  
 Lantern, Tubular. F. K. Wright. No. 911,282; Feb. 2; Sp. p. 515; Gaz. vol. 139; p. 88.  
 Lantern, Tubular. C. L. Betts. No. 911,288; Feb. 2; Sp. p. 528; Gaz. vol. 139; p. 90.  
 Lantern, Tubular. W. C. Winfield. No. 914,688; Mar. 9; Sp. p. 2182; Gaz. vol. 140; p. 366.  
 Lantern, Tubular. P. H. Conradson. No. 916,533; Mar. 30; Sp. p. 5864; Gaz. vol. 140; p. 1052.  
 Lantern, Tubular. W. C. Embury. No. 919,146; Apr. 20; Sp. p. 4517; Gaz. vol. 141; p. 789.  
 Lantern, Tubular. C. L. Betts. No. 920,815; May 4; Sp. p. 1462; Gaz. vol. 142; p. 236.  
 Lantern, Tubular. C. L. Betts. No. 920,892; May 4; Sp. p. 1632; Gaz. vol. 142; p. 261.  
 Lantern, Tubular. C. Bergener. No. 927,767; July 13; Sp. p. 2213; Gaz. vol. 144; p. 383.  
 Lantern view-changing device, Magic-. J. Keller. No. 914,728; Mar. 9; Sp. p. 2262; Gaz. vol. 140; p. 380.  
 Lantern wick-adjusting device, Railway-. F. H. Conradson. No. 916,534; Mar. 30; Sp. p. 5867; Gaz. vol. 140; p. 1053.  
 Lanterns, Bail-holder for. F. K. Wright. No. 927,760; July 13; Sp. p. 2203; Gaz. vol. 144; p. 381.  
 Lanterns, Operating means for signal-. O. R. Milliron. No. 928,208; July 13; Sp. p. 3111; Gaz. vol. 144; p. 530.  
 Lap-fastener. F. A. Boyer. No. 943,135; Dec. 14; Sp. p. 2389; Gaz. vol. 148; p. 406.  
 Lap-forming mechanism. C. E. T. Scribner. No. 938,437; Oct. 26; Sp. p. 5969; Gaz. vol. 147; p. 1012.  
 Lap-grinding machines, Oscillating mechanism for. J. F. Hedstrom. No. 908,462; Jan. 5; Sp. p. 54; Gaz. vol. 138; p. 12.  
 Lap-joint and nut-lock, Continuous. J. L. Gask and S. L. McDavitt. No. 909,580; Jan. 12; Sp. p. 2317; Gaz. vol. 138; p. 411.  
 Lap-link. J. M. Scott. No. 916,791; Mar. 30; Sp. p. 6331; Gaz. vol. 140; p. 1131.  
 Lap-robe. H. T. von Frankenberg. No. 919,339; Apr. 27; Sp. p. 5111; Gaz. vol. 141; p. 886.  
 Lap-robe holder. H. F. Tyrrell. No. 933,405; Sept. 7; Sp. p. 854; Gaz. vol. 146; p. 130.  
 Lard gage-extractor. T. F. Ray, Jr. No. 935,404; Sept. 28; Sp. p. 4881; Gaz. vol. 146; p. 863.  
 Lard or the like, Apparatus for cutting. A. J. A. Bergman. No. 944,410; Dec. 28; Sp. p. 5108; Gaz. vol. 149; p. 897.  
 Lard substitutes, Improving the odor of. J. H. Filbert. No. 929,925; Aug. 3; Sp. p. 646; Gaz. vol. 145; p. 103.  
 Last. A. G. Fitz. No. 909,387; Jan. 12; Sp. p. 1935; Gaz. vol. 138; p. 345.  
 Last. A. G. Fitz. No. 909,388; Jan. 12; Sp. p. 1936; Gaz. vol. 138; p. 345.  
 Last. A. G. Fitz. No. 913,118; Feb. 23; Sp. p. 4322; Gaz. vol. 139; p. 782.  
 Last. E. J. Bliss and E. F. White. No. 914,329; Mar. 2; Sp. p. 1433; Gaz. vol. 140; p. 222.  
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 Last. S. A. Baker. No. 914,376; Mar. 9; Sp. p. 1548; Gaz. vol. 140; p. 264.  
 Last. J. T. Brown. No. 915,736; Mar. 23; Sp. p. 4317; Gaz. vol. 140; p. 767.  
 Last. J. H. Jones. No. 918,162; Apr. 13; Sp. p. 2433; Gaz. vol. 141; p. 436.  
 Last. R. Carl. No. 918,506; Apr. 20; Sp. p. 3149; Gaz. vol. 141; p. 577.  
 Last. W. E. Ellis. No. 928,909; July 20; Sp. p. 4569; Gaz. vol. 144; p. 795.  
 Last. S. M. Hamblin. No. 929,849; Aug. 3; Sp. p. 485; Gaz. vol. 145; p. 77.  
 Last. E. Y. Austin. No. 931,372; Aug. 17; Sp. p. 3706; Gaz. vol. 145; p. 640.  
 Last. A. G. Fitz. No. 933,029; Aug. 31; Sp. p. 7153; Gaz. vol. 145; p. 1229.  
 Last. H. F. Loewer and F. W. Kittlinger. No. 933,087; Sept. 7; Sp. p. 102; Gaz. vol. 146; p. 17.  
 Last. S. S. Cameron. No. 933,821; Sept. 14; Sp. p. 1750; Gaz. vol. 146; p. 290.  
 Last. T. Annellius. No. 937,982; Oct. 26; Sp. p. 4967; Gaz. vol. 147; p. 856.  
 Last. H. F. Loewer. No. 941,373; Nov. 30; Sp. p. 6455; Gaz. vol. 148; p. 1099.  
 Last. W. S. Hamm. No. 942,554; Dec. 7; Sp. p. 1100; Gaz. vol. 149; p. 178.  
 Last-cord fastener. P. H. and T. A. Hickman and J. F. Pell. No. 928,605; July 20; Sp. p. 3968; Gaz. vol. 144; p. 692.  
 Last heel-trimmer. H. F. Loewer. No. 916,569; Mar. 30; Sp. p. 5931; Gaz. vol. 140; p. 1064.  
 Last, Hinged. E. O. Kentler. No. 936,138; Oct. 5; Sp. p. 1134; Gaz. vol. 147; p. 172.  
 Last jack, Boot and shoe. T. G. Plant. No. 940,722; Nov. 23; Sp. p. 5049; Gaz. vol. 148; p. 863.  
 Last-lock. F. J. Shainsey, Sr. No. 938,903; Nov. 2; Sp. p. 1001; Gaz. vol. 148; p. 157.  
 Last, Locking-. H. F. Loewer. No. 933,041; Aug. 31; Sp. p. 7182; Gaz. vol. 145; p. 1233.  
 Last, Locking-. F. W. Kittlinger. No. 935,995; Oct. 5; Sp. p. 844; Gaz. vol. 147; p. 126.  
 Last, Locking collapsible. C. F. Pym. No. 939,860; Nov. 9; Sp. p. 3097; Gaz. vol. 148; p. 511.  
 Last, Shoe-. A. J. Buch. No. 939,212; Nov. 9; Sp. p. 1640; Gaz. vol. 148; p. 290.  
 Last, Shoe-. A. C. Hayden. No. 941,451; Nov. 30; Sp. p. 6639; Gaz. vol. 148; p. 1125.  
 Last-support. A. G. Fitz. No. 909,389; Jan. 12; Sp. p. 1937; Gaz. vol. 138; p. 346.  
 Lasts, Forming. E. J. Prindle. No. 912,027; Feb. 9; Sp. p. 2053; Gaz. vol. 139; p. 358.  
 Lasts, Machine for removing shoes from. F. M. Moody. No. 932,632; Aug. 31; Sp. p. 6367; Gaz. vol. 145; p. 1099.  
 Lasting device. J. D. Castellani. No. 919,418; Apr. 27; Sp. p. 5277; Gaz. vol. 141; p. 913.

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 Lasting-machine. A. J. Gabriellian. No. 914,486; Mar. 9; Sp. p. 1750; Gaz. vol. 140; p. 300.  
 Lasting-machine. F. W. Roberts and A. Ward. No. 925,511; June 22; Sp. p. 5065; Gaz. vol. 143; p. 892.  
 Lasting-machine. E. A. Stiggins. No. 931,809; Aug. 24; Sp. p. 4627; Gaz. vol. 145; p. 802.  
 Lasting-machine. F. Chase. No. 935,090; Sept. 28; Sp. p. 4261; Gaz. vol. 146; p. 762.  
 Lasting-machine. C. F. Pym. No. 938,512; Nov. 2; Sp. p. 144; Gaz. vol. 148; p. 22.  
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 Lasting-machine. W. E. Wade. No. 944,116; Dec. 21; Sp. p. 4481; Gaz. vol. 149; p. 770.  
 Lasting-machine, Boot and shoe. J. C. and B. Wright. No. 919,995; Apr. 27; Sp. p. 6476; Gaz. vol. 141; p. 1106.  
 Lasting-machine, Boot and shoe. L. B. Stamm. No. 923,452; June 1; Sp. p. 768; Gaz. vol. 143; p. 113.  
 Lasting-machine, Second-. H. F. Loewer. No. 931,443; Aug. 17; Sp. p. 3849; Gaz. vol. 145; p. 664.  
 Lasting-machines and the like, Heel-band for bed. G. V. Condon. No. 924,967; June 15; Sp. p. 4025; Gaz. vol. 143; p. 685.  
 Latch. R. E. Mosher. No. 915,873; Mar. 23; Sp. p. 4563; Gaz. vol. 140; p. 811.  
 Latch. H. Holford. No. 915,962; Mar. 23; Sp. p. 4730; Gaz. vol. 140; p. 839.  
 Latch. F. Weil. No. 920,961; May 11; Sp. p. 1771; Gaz. vol. 142; p. 315.  
 Latch. O. Lewis. No. 921,852; May 18; Sp. p. 3641; Gaz. vol. 142; p. 641.  
 Latch. C. A. Milligan. No. 922,177; May 18; Sp. p. 4276; Gaz. vol. 142; p. 746.  
 Latch. O. T. Belsvov. No. 926,090; June 29; Sp. p. 6292; Gaz. vol. 143; p. 1117.  
 Latch. W. G. Gregory and R. H. Heinen. No. 927,043; July 6; Sp. p. 725; Gaz. vol. 144; p. 114.  
 Latch. J. A. Giese. No. 927,231; July 6; Sp. p. 1099; Gaz. vol. 144; p. 178.  
 Latch. H. F. Smith. No. 932,507; Aug. 31; Sp. p. 6090; Gaz. vol. 145; p. 1056.  
 Latch, Automatic door-. J. J. Tatum. No. 935,946; Oct. 5; Sp. p. 739; Gaz. vol. 147; p. 109.  
 Latch, Automatic switch-. W. S. Weston. No. 933,511; Sept. 7; Sp. p. 1139; Gaz. vol. 146; p. 164.  
 Latch-bolt dogging mechanism. A. Arens. No. 924,528; June 8; Sp. p. 3076; Gaz. vol. 143; p. 503.  
 Latch-bolt for doors. J. R. Potts. No. 941,689; Nov. 30; Sp. p. 7126; Gaz. vol. 148; p. 1203.  
 Latch, Door-. J. Feucht. No. 916,545; Mar. 30; Sp. p. 5889; Gaz. vol. 140; p. 1056.  
 Latch, Door-. W. Keating. No. 920,478; May 4; Sp. p. 773; Gaz. vol. 142; p. 125.  
 Latch, Door-. E. H. Todt. No. 922,975; May 25; Sp. p. 5934; Gaz. vol. 142; p. 1035.  
 Latch, Door-. E. Zwiller. No. 923,233; June 1; Sp. p. 234; Gaz. vol. 143; p. 38.  
 Latch, Door-. E. L. Bowes. No. 936,214; Oct. 5; Sp. p. 1272; Gaz. vol. 147; p. 194.  
 Latch for doors, gates, windows, &c. B. R. Crampton. No. 928,030; July 13; Sp. p. 2759; Gaz. vol. 144; p. 471.  
 Latch for sliding doors, safety-. C. J. Pfister. No. 932,317; Aug. 24; Sp. p. 5690; Gaz. vol. 145; p. 970.  
 Latch for the closing of end-gates. G. H. Fox. No. 929,641; July 27; Sp. p. 6078; Gaz. vol. 144; p. 1062.  
 Latch, Gate-. B. H. Hannemann. No. 922,889; May 25; Sp. p. 5777; Gaz. vol. 142; p. 1007.  
 Latch, Gate-. T. Dailey. No. 925,874; June 22; Sp. p. 5849; Gaz. vol. 143; p. 1011.  
 Latch, Gate-. A. J. and W. H. Russell. No. 927,079; July 6; Sp. p. 803; Gaz. vol. 144; p. 128.  
 Latch, Gate-. J. B. Walser. No. 928,825; July 20; Sp. p. 4390; Gaz. vol. 144; p. 765.  
 Latch, Gate-. L. P. Peden. No. 930,985; Aug. 10; Sp. p. 2826; Gaz. vol. 145; p. 477.  
 Latch, Gate-. T. R. Varnell. No. 931,163; Aug. 17; Sp. p. 3252; Gaz. vol. 145; p. 567.  
 Latch, Gate-. J. Moore. No. 944,896; Dec. 28; Sp. p. 6172; Gaz. vol. 149; p. 1062.  
 Latch-hook for gates, doors, and the like. F. W. Braner. No. 932,245; Aug. 24; Sp. p. 5560; Gaz. vol. 145; p. 946.  
 Latch-lock for swinging doors. R. Buettikofer and G. Hoffman. No. 943,615; Dec. 14; Sp. p. 3416; Gaz. vol. 149; p. 569.  
 Latch mechanism. J. Shand. No. 929,988; Aug. 3; Sp. p. 779; Gaz. vol. 145; p. 124.  
 Latch, Night-. R. A. Chase. No. 943,216; Dec. 14; Sp. p. 2547; Gaz. vol. 149; p. 432.  
 Latch-operating device. C. G. Peterson. No. 930,222; Aug. 3; Sp. p. 1231; Gaz. vol. 145; p. 203.  
 Latch, Reversible. E. H. Summers. No. 927,189; July 6; Sp. p. 1014; Gaz. vol. 144; p. 164.  
 Latch, Rim-. P. F. Augenbraun. No. 918,492; Apr. 20; Sp. p. 3121; Gaz. vol. 141; p. 573.  
 Latch, Rim night-. P. F. Augenbraun. No. 917,398; Apr. 6; Sp. p. 890; Gaz. vol. 141; p. 153.  
 Latch, Safety door-. A. C. Hope, F. Farquhar, and C. A. Hickey. No. 943,973; Dec. 21; Sp. p. 4173; Gaz. vol. 149; p. 722.  
 Latch, Secret-keyhole. F. Di Bella. No. 917,557; Apr. 6; Sp. p. 1168; Gaz. vol. 141; p. 204.  
 Latch, Sliding gate-. E. W. Adams. No. 932,232; Aug. 24; Sp. p. 5534; Gaz. vol. 145; p. 942.  
 Latch, Spring-. P. P. Bilhorn. No. 944,713; Dec. 28; Sp. p. 5780; Gaz. vol. 149; p. 1000.  
 Latches, Emergency-exit attachment for knob-. A. M. Hood. No. 927,654; July 13; Sp. p. 1982; Gaz. vol. 144; p. 346.  
 Latching device. E. W. Vest. No. 917,198; Apr. 6; Sp. p. 485; Gaz. vol. 141; p. 85.  
 Latex-cup. J. Webster. No. 919,098; Apr. 20; Sp. p. 4421; Gaz. vol. 141; p. 772.  
 Lath, Bamboo. C. Bender. No. 932,099; Aug. 24; Sp. p. 5268; Gaz. vol. 145; p. 898.  
 Lath-holder. J. F. and H. L. Presba. No. 909,217; Jan. 12; Sp. p. 1618; Gaz. vol. 138; p. 291.  
 Lath-machine. J. A. Bergren and J. H. Moan. No. 909,139; Jan. 12; Sp. p. 1468; Gaz. vol. 138; p. 267.  
 Lath-machine attachment, Diamond-. H. E. White. No. 919,274; Apr. 20; Sp. p. 4951; Gaz. vol. 141; p. 830.  
 Lath, Metal. E. A. Wilson. No. 930,255; Aug. 3; Sp. p. 1291; Gaz. vol. 145; p. 213.  
 Lathing, Clip for metallic. J. Francis. No. 927,137; July 6; Sp. p. 910; Gaz. vol. 144; p. 147.  
 Lathing, Manufacture of metal. W. Klocke. No. 928,610; July 20; Sp. p. 3974; Gaz. vol. 144; p. 694.  
 Lathing, Manufacturing metal. W. Klocke. No. 928,917; July 20; Sp. p. 4584; Gaz. vol. 144; p. 798.  
 Lathing, Metal. W. J. McGarry. No. 932,410; Aug. 24; Sp. p. 5862; Gaz. vol. 145; p. 1001.  
 Lath. R. C. Fay. No. 910,466; Jan. 19; Sp. p. 4157; Gaz. vol. 138; p. 745.  
 Lath. I. A. Wendell. No. 917,389; Apr. 6; Sp. p. 870; Gaz. vol. 141; p. 150.  
 Lath. C. F. Davis and W. N. Parsons. No. 921,807; May 18; Sp. p. 3527; Gaz. vol. 142; p. 626.  
 Lath. J. E. Key. No. 929,226; July 27; Sp. p. 5215; Gaz. vol. 144; p. 925.  
 Lath. A. Tindel. No. 934,636; Sept. 21; Sp. p. 3358; Gaz. vol. 146; p. 585.  
 Lath. G. W. Davis. No. 935,143; Sept. 28; Sp. p. 4371; Gaz. vol. 146; p. 780.  
 Lath. L. H. Vold. No. 941,475; Nov. 30; Sp. p. 6690; Gaz. vol. 148; p. 1133.  
 Lath. C. D. Fischer, Jr. No. 941,701; Nov. 30; Sp. p. 7156; Gaz. vol. 148; p. 1208.  
 Lath. M. J. Cunningham. No. 944,480; Dec. 28; Sp. p. 5254; Gaz. vol. 149; p. 920.  
 Lath. J. E. Key. No. 944,876; Dec. 28; Sp. p. 6140; Gaz. vol. 149; p. 1056.  
 Lath attachment. J. Sell. No. 916,618; Mar. 30; Sp. p. 6031; Gaz. vol. 140; p. 1081.  
 Lath attachment. C. W. Wight. No. 920,704; May 4; Sp. p. 1260; Gaz. vol. 142; p. 201.  
 Lath, Automatic. J. J. Grant and J. F. Fieg. No. 926,737; July 6; Sp. p. 51; Gaz. vol. 144; p. 9.  
 Lath-boring attachment. J. N. Rundie. No. 926,612; June 29; Sp. p. 7313; Gaz. vol. 143; p. 1290.  
 Lath-center. C. S. Totten. No. 930,440; Aug. 10; Sp. p. 1646; Gaz. vol. 145; p. 298.  
 Lath centering device. E. W. Knobelsdorf. No. 930,077; Aug. 3; Sp. p. 954; Gaz. vol. 145; p. 155.  
 Lath-chuck work-holder attachment. W. Webb and W. W. Hildreth. No. 917,387; Apr. 6; Sp. p. 869; Gaz. vol. 141; p. 149.  
 Lath, Crank-axle. J. L. Bogert. No. 920,420; May 4; Sp. p. 678; Gaz. vol. 142; p. 107.  
 Lath driving-center. B. Wehner. No. 913,594; Feb. 23; Sp. p. 5319; Gaz. vol. 139; p. 941.  
 Lath-feed mechanism. J. R. Perrine. No. 912,609; Feb. 16; Sp. p. 3283; Gaz. vol. 139; p. 589.  
 Lath-head. G. F. Fisher. No. 927,960; July 13; Sp. p. 2632; Gaz. vol. 144; p. 447.  
 Lath-head. K. W. Rockenhauser and H. F. Fischer. No. 929,789; Aug. 3; Sp. p. 333; Gaz. vol. 145; p. 57.  
 Lath head-stock. H. B. White and P. E. Medford. No. 938,030; Oct. 26; Sp. p. 5068; Gaz. vol. 147; p. 872.  
 Lath, Multiple-spindle. J. J. Grant. No. 926,736; July 6; Sp. p. 34; Gaz. vol. 144; p. 8.  
 Lath, Multiple-spindle automatic. E. U. Harrison. No. 928,382; July 20; Sp. p. 3508; Gaz. vol. 144; p. 620.  
 Lath, Portable turning. W. D. Verschore. No. 918,227; Apr. 13; Sp. p. 2572; Gaz. vol. 141; p. 458.  
 Lath, Self-feeding scratch-brush. J. H. Goss. No. 922,761; Mar. 25; Sp. p. 5489; Gaz. vol. 142; p. 965.  
 Lath speed-change gearing. J. R. Back and J. McCallie. No. 916,525; Mar. 30; Sp. p. 5849; Gaz. vol. 140; p. 1049.  
 Lath spindle and chuck construction, Monitor-. E. J. McClellan. No. 927,424; July 6; Sp. p. 1449; Gaz. vol. 144; p. 241.  
 Lath-stocks, Means for securing movable. C. D. Young. No. 927,628; July 13; Sp. p. 1927; Gaz. vol. 144; p. 338.  
 Lath structure. F. Hardinge. No. 908,664; Jan. 5; Sp. p. 505; Gaz. vol. 138; p. 73.  
 Lath structures or the like, Controlling mechanism for. F. Hardinge. No. 928,045; July 13; Sp. p. 2795; Gaz. vol. 144; p. 476.  
 Lath-tool. J. D. Ramsey. No. 932,576; Aug. 31; Sp. p. 6232; Gaz. vol. 145; p. 1079.  
 Lath-tool. A. Stevenson. No. 937,886; Oct. 26; Sp. p. 4770; Gaz. vol. 147; p. 824.  
 Lath-tool, Combination. O. Carlberg. No. 940,301; Nov. 16; Sp. p. 4123; Gaz. vol. 148; p. 695.  
 Lath-tool-holder. B. F. Ennis. No. 917,029; Apr. 6; Sp. p. 142; Gaz. vol. 141; p. 27.  
 Lath-tool-holder. J. D. Ramsey. No. 935,547; Sept. 28; Sp. p. 5191; Gaz. vol. 146; p. 911.  
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 Lathe, Turret-. B. M. W. Hanson. No. 921,984; May 18; Sp. p. 3904; Gaz. vol. 142; p. 683.  
 Lathe, Turret-. C. L. Libby. No. 938,156; Oct. 26; Sp. p. 5360; Gaz. vol. 147; p. 915.  
 Lathe, Zinc-. A. E. Johnson. No. 932,782; Aug. 31; Sp. p. 6691; Gaz. vol. 145; p. 1148.  
 Lathes, Feed for. C. L. Libby. No. 939,043; Nov. 2; Sp. p. 1277; Gaz. vol. 148; p. 205.  
 Lathes for boring elliptical openings, Attachment to. J. Shaw. No. 928,404; July 20; Sp. p. 3551; Gaz. vol. 144; p. 628.  
 Lathes, High-speed attachment for. G. W. Libby and J. S. Scott. No. 917,468; Apr. 6; Sp. p. 1008; Gaz. vol. 141; p. 176.  
 Lathes, Interchangeable spring tool-holder for. H. A. Hillenbrand. No. 935,656; Oct. 5; Sp. p. 63; Gaz. vol. 147; p. 12.  
 Lathes, Mechanism for shifting the cross-slides of. B. M. W. Hanson. No. 921,985; May 18; Sp. p. 3907; Gaz. vol. 142; p. 683.  
 Lathes, planers, &c., Tool for. W. E. Delano. No. 937,775; Oct. 26; Sp. p. 4545; Gaz. vol. 147; p. 787.  
 Lathes, screw-machines, &c., Bar-stock feeder for use in turret-. H. S. Johnson. No. 932,394; Aug. 24; Sp. p. 5832; Gaz. vol. 145; p. 990.  
 Lathes, Stop-motion for veneer-. J. M. Rounds. No. 942,105; Dec. 7; Sp. p. 155; Gaz. vol. 149; p. 24.  
 Lathes, Thread-cutting attachment for automatic. J. J. Grant. No. 932,607; Aug. 31; Sp. p. 6315; Gaz. vol. 145; p. 1090.  
 Lathes, Turret tool-holder for. J. Burt. No. 936,301; Oct. 12; Sp. p. 1434; Gaz. vol. 147; p. 249.  
 Lathering utensil. C. E. Thompson. No. 926,303; June 29; Sp. p. 6737; Gaz. vol. 143; p. 1188.  
 Latrine-incinerator. J. Conley. No. 926,099; June 29; Sp. p. 6307; Gaz. vol. 143; p. 1120.  
 Latrine-incinerator. J. Conley. No. 926,100; June 29; Sp. p. 6309; Gaz. vol. 143; p. 1121.  
 Laundered articles, Carton or holder for. N. J. Goodman. No. 942,201; Dec. 7; Sp. p. 375; Gaz. vol. 149; p. 57.  
 Laundry articles, Marking-machine for. C. W. Canine. No. 927,437; July 13; Sp. p. 1607; Gaz. vol. 144; p. 289.  
 Laundry-iron, Electric. H. C. Newman. No. 936,556; Oct. 12; Sp. p. 2022; Gaz. vol. 147; p. 333.  
 Laundry-marking machine. T. J. Hume. No. 908,673; Jan. 5; Sp. p. 515; Gaz. vol. 138; p. 81.  
 Laundry-marking machine. J. C. Gebhart. No. 934,300; Sept. 14; Sp. p. 2692; Gaz. vol. 146; p. 447.  
 Laundry-marking machine. T. L. Taylor. No. 943,203; Dec. 14; Sp. p. 2515; Gaz. vol. 149; p. 427.  
 Laundry-pad. W. H. Larduskey. No. 919,191; Apr. 20; Sp. p. 4602; Gaz. vol. 141; p. 803.  
 Laundry wet-wash drier. W. W. Anderson. No. 918,114; Apr. 13; Sp. p. 2348; Gaz. vol. 141; p. 420.  
 Lavatories, baths, &c., Overflow and waste plug or valve for. J. Clifford. No. 919,420; Apr. 27; Sp. p. 5281; Gaz. vol. 141; p. 914.  
 Lavatories, &c., Leg attachment for. W. H. Lose. No. 938,157; Oct. 26; Sp. p. 5363; Gaz. vol. 147; p. 915.  
 Lavatory. J. S. Rowe. No. 921,166; May 11; Sp. p. 2181; Gaz. vol. 142; p. 384.  
 Lavatory. H. M. Weaver. No. 921,574; May 11; Sp. p. 3026; Gaz. vol. 142; p. 519.  
 Lavatory. W. Bunting, Jr. No. 924,598; June 8; Sp. p. 3227; Gaz. vol. 143; p. 526.  
 Lavatory. J. H. Gavin. No. 925,325; June 15; Sp. p. 4697; Gaz. vol. 143; p. 802.  
 Lavatory. H. Podmore. No. 925,378; June 15; Sp. p. 4789; Gaz. vol. 143; p. 818.  
 Lavatory. H. Podmore. No. 928,696; July 20; Sp. p. 4146; Gaz. vol. 144; p. 722.  
 Lavatory. O. S. Bond. No. 929,820; Aug. 3; Sp. p. 411; Gaz. vol. 145; p. 68.  
 Lavatory. J. McPherson, Jr. No. 932,054; Aug. 24; Sp. p. 5178; Gaz. vol. 145; p. 883.  
 Lavatory. S. Bedson. No. 935,290; Sept. 28; Sp. p. 4654; Gaz. vol. 146; p. 827.  
 Lavatory. W. Bunting, Jr. No. 935,621; Sept. 28; Sp. p. 5336; Gaz. vol. 146; p. 936.  
 Lavatory. W. Podmore. No. 943,458; Dec. 14; Sp. p. 3063; Gaz. vol. 149; p. 515.  
 Lavatory. B. F. Wheeler. No. 944,586; Dec. 28; Sp. p. 5524; Gaz. vol. 149; p. 958.  
 Lavatory-basins or other earthenware articles, Manufacturing. J. Clifford and C. Weelans. No. 929,390; July 27; Sp. p. 5598; Gaz. vol. 144; p. 982.  
 Lavatory-fitting. P. Mueller. No. 942,385; Dec. 7; Sp. p. 734; Gaz. vol. 149; p. 120.  
 Lavatory-fitting. P. Mueller. No. 942,386; Dec. 7; Sp. p. 736; Gaz. vol. 149; p. 120.  
 Lavatory-fixture. D. A. Carpenter. No. 937,509; Oct. 19; Sp. p. 4009; Gaz. vol. 147; p. 681.  
 Lavatory-plug and means for operating the same. B. N. Miles. No. 908,477; Jan. 5; Sp. p. 91; Gaz. vol. 138; p. 17.  
 Lawn-edge trimmer. C. C. Wheeler. No. 918,239; Apr. 13; Sp. p. 2609; Gaz. vol. 141; p. 463.  
 Lawn-edge trimmer. H. P. Dague. No. 937,579; Oct. 19; Sp. p. 4140; Gaz. vol. 147; p. 705.  
 Lawn-edger. H. L. Carter. No. 910,111; Jan. 19; Sp. p. 3373; Gaz. vol. 138; p. 620.  
 Lawn-protector. E. E. Lillegren. No. 915,975; Mar. 23; Sp. p. 4771; Gaz. vol. 140; p. 843.  
 Lawn-rake, Rotary. C. Walte. No. 939,765; Nov. 9; Sp. p. 2921; Gaz. vol. 148; p. 480.  
 Lawn-sprinkler. H. Gibbs. No. 911,716; Feb. 9; Sp. p. 1381; Gaz. vol. 139; p. 257.  
 Lawn-sprinkler. R. C. Sanders. No. 912,493; Feb. 16; Sp. p. 3026; Gaz. vol. 139; p. 547.  
 Lawn-sprinkler. L. W. Wells. No. 913,791; Mar. 2; Sp. p. 244; Gaz. vol. 140; p. 41.  
 Lawn-sprinkler. D. G. Loomis and P. I. Tuttle. No. 919,737; Apr. 27; Sp. p. 5950; Gaz. vol. 141; p. 1021.  
 Lawn-sprinkler. J. B. Gorrell. No. 920,864; May 4; Sp. p. 1561; Gaz. vol. 142; p. 252.  
 Lawn-sprinkler. B. F. Wooding. No. 924,519; June 8; Sp. p. 3053; Gaz. vol. 143; p. 500.  
 Lawn-sprinkler. A. Fisher. No. 928,372; July 20; Sp. p. 3494; Gaz. vol. 144; p. 617.  
 Lawn-sprinkler. J. Keene. No. 930,767; Aug. 10; Sp. p. 2355; Gaz. vol. 145; p. 407.  
 Lawn-sprinkler. J. C. Kunz. No. 932,618; Aug. 31; Sp. p. 6345; Gaz. vol. 145; p. 1004.  
 Lawn-sprinkler. P. Goemaere. No. 933,900; Sept. 14; Sp. p. 1912; Gaz. vol. 146; p. 316.  
 Lawn-sprinkler. W. Vossler. No. 935,071; Sept. 28; Sp. p. 4224; Gaz. vol. 146; p. 756.  
 Lawn-sprinkler. C. Balreich. No. 943,172; Dec. 14; Sp. p. 2456; Gaz. vol. 149; p. 417.  
 Lawn-trimmer. H. J. Robe. No. 911,073; Feb. 2; Sp. p. 101; Gaz. vol. 139; p. 18.  
 Lawn-trimmer. J. R. Place. No. 912,408; Feb. 16; Sp. p. 2863; Gaz. vol. 139; p. 519.  
 Lawn-trimmer. J. Weber. No. 913,790; Mar. 2; Sp. p. 243; Gaz. vol. 140; p. 41.  
 Lawn-trimmer. C. E. Waters. No. 925,671; June 22; Sp. p. 5386; Gaz. vol. 143; p. 943.  
 Lawn-trimmer. W. Loudon. No. 930,396; Aug. 10; Sp. p. 1562; Gaz. vol. 145; p. 283.  
 Lawn-trimmer. G. H. Person and R. Uhler. No. 935,225; Sept. 28; Sp. p. 4521; Gaz. vol. 146; p. 805.  
 Lead-casting machine. J. J. Stehling. No. 921,021; May 11; Sp. p. 1886; Gaz. vol. 142; p. 334.  
 Lead arsenate, Manufacture of. E. E. Luther and W. H. Volok. No. 929,962; Aug. 3; Sp. p. 722; Gaz. vol. 145; p. 115.  
 Lead hollow bodies. Uniformly covering with. W. Schwaninger. No. 914,459; Mar. 9; Sp. p. 1701; Gaz. vol. 140; p. 291.  
 Lead-joint runner. W. Vanderman. No. 939,356; Nov. 9; Sp. p. 2013; Gaz. vol. 148; p. 340.  
 Lead, Making white. J. A. Erbslow. No. 930,057; Aug. 3; Sp. p. 919; Gaz. vol. 145; p. 147.  
 Lead, Manufacturing sublimed white. L. S. Hughes. No. 920,332; May 4; Sp. p. 493; Gaz. vol. 142; p. 78.  
 Lead matrix. H. Schimansky. No. 922,199; May 18; Sp. p. 4394; Gaz. vol. 142; p. 754.  
 Lead ores, Treating argentiferous. O. H. Ficher. No. 920,388; May 4; Sp. p. 613; Gaz. vol. 142; p. 97.  
 Lead pipe, Reinforced. E. F. Wardwell. No. 936,839; Oct. 12; Sp. p. 2586; Gaz. vol. 147; p. 431.  
 Lead seals, &c., Machine for casting. N. S. Friderichsen. No. 914,131; Mar. 2; Sp. p. 1022; Gaz. vol. 140; p. 161.  
 Lead, Treating anode slime from the electrolytic refining of. A. G. Betts. No. 918,647; Apr. 20; Sp. p. 3493; Gaz. vol. 141; p. 624.  
 Leaf-clip and line-marker. E. A. Bagby. No. 919,806; Apr. 27; Sp. p. 6076; Gaz. vol. 141; p. 1045.  
 Leaf holder, Loose-. E. E. Tait. No. 941,963; Nov. 30; Sp. p. 7716; Gaz. vol. 145; p. 1299.  
 Leaf-spring. W. J. Harrison. No. 933,441; Sept. 7; Sp. p. 899; Gaz. vol. 146; p. 140.  
 Leaf-turner. D. Macdonald. No. 917,782; Apr. 13; Sp. p. 1648; Gaz. vol. 141; p. 306.  
 Leaf-turner. J. F. Young. No. 921,496; May 11; Sp. p. 2878; Gaz. vol. 142; p. 495.  
 Leafing machine, Fly-. T. A. Riley and P. F. Hughes. No. 917,966; Apr. 13; Sp. p. 2025; Gaz. vol. 141; p. 368.  
 Leak-detector. J. B. Williams. No. 932,079; Aug. 24; Sp. p. 5227; Gaz. vol. 145; p. 891.  
 Leaper's obstacle. R. L. Kimmel. No. 932,142; Aug. 24; Sp. p. 5351; Gaz. vol. 145; p. 912.  
 Lease-reeds, Apparatus for manufacturing. C. A. Geer. No. 930,669; Aug. 10; Sp. p. 2133; Gaz. vol. 145; p. 372.  
 Leather and making the same, Artificial. L. V. Guillebeau-Chaput. No. 933,645; Sept. 7; Sp. p. 1382; Gaz. vol. 146; p. 208.  
 Leather and the like creasing machine. E. B. Stimpson. No. 940,084; Nov. 16; Sp. p. 3632; Gaz. vol. 148; p. 620.  
 Leather belting, Apparatus for stretching and straightening. M. H. and C. G. Cook. No. 908,958; Jan. 5; Sp. p. 1067; Gaz. vol. 138; p. 173.  
 Leather belting, Stretching and straightening. M. H. and C. G. Cook. No. 908,957; Jan. 5; Sp. p. 1066; Gaz. vol. 138; p. 172.  
 Leather cutting, beveling, splitting and grooving machine. C. Hildebrandt. No. 940,390; Nov. 16; Sp. p. 4342; Gaz. vol. 148; p. 727.  
 Leather-dressing machine. M. Fried and R. Harvey. No. 924,756; June 15; Sp. p. 3572; Gaz. vol. 143; p. 613.  
 Leather-dressing process. G. W. Childs. No. 929,552; July 27; Sp. p. 5879; Gaz. vol. 144; p. 1033.  
 Leather-edging apparatus. R. H. Schwartz. No. 917,366; Apr. 6; Sp. p. 832; Gaz. vol. 141; p. 142.  
 Leather-edging tool. F. F. Cumms. No. 940,857; Nov. 23; Sp. p. 5349; Gaz. vol. 148; p. 907.  
 Leather, Enameling. B. B. Goldsmith. No. 909,288; Jan. 12; Sp. p. 1747; Gaz. vol. 138; p. 314.  
 Leather-finishing machine. A. G. Filmer. No. 920,304; May 4; Sp. p. 454; Gaz. vol. 142; p. 70.  
 Leather for boots and shoes, Machine for cutting out upper-. A. Bates. No. 921,503; May 11; Sp. p. 2892; Gaz. vol. 142; p. 498.  
 Leather goods. S. Zeugschmidt. No. 927,761; July 13; Sp. p. 2205; Gaz. vol. 144; p. 381.  
 Leather, Imitation. M. Pianko. No. 915,882; Mar. 23; Sp. p. 4584; Gaz. vol. 140; p. 814.



*Alphabetical list of inventions—Continued.*

- Leather, Machine for applying metal ornaments to. D. C. Sassemann. No. 923,300; June 1; Sp. p. 445; Gaz. vol. 143; p. 62.  
 Leather, Machine for mending imperfections in patent-. W. A. Dunbar. No. 916,124; Mar. 23; Sp. p. 5036; Gaz. vol. 140; p. 892.  
 Leather or artificial patent-leather, Making patent-. G. R. De Montlond. No. 928,235; July 13; Sp. p. 3165; Gaz. vol. 144; p. 539.  
 Leather-perforating machine. W. A. Dawes. No. 934,292; Sept. 14; Sp. p. 2674; Gaz. vol. 146; p. 444.  
 Leather product and making the same. H. Mackay. No. 911,140; Feb. 2; Sp. p. 234; Gaz. vol. 139; p. 42.  
 Leather-seasoning-machine attachment. F. F. Slocumb and W. E. Poinsett. No. 930,700; Aug. 10; Sp. p. 2209; Gaz. vol. 145; p. 385.  
 Leather-shredding mills. Attrition-plate for. G. E. Sovereign. No. 938,798; Nov. 2; Sp. p. 741; Gaz. vol. 148; p. 120.  
 Leather-shrinking machine. A. Faifer. No. 917,857; Apr. 13; Sp. p. 1793; Gaz. vol. 141; p. 330.  
 Leather-skiving machines, Marking or printing means for. R. F. Grant. No. 928,514; July 20; Sp. p. 3770; Gaz. vol. 144; p. 661.  
 Leather-splitting machine. A. A. Chilson. No. 909,157; Jan. 12; Sp. p. 1502; Gaz. vol. 138; p. 272.  
 Leather-splitting machine. T. H. Mayo. No. 935,533; Sept. 28; Sp. p. 5149; Gaz. vol. 146; p. 905.  
 Leather-splitting machine. J. Busfield. No. 937,765; Oct. 28; Sp. p. 4518; Gaz. vol. 147; p. 783.  
 Leather-splitting machines, Spring-roll for. J. H. Gay and W. D. Quigley. No. 924,900; June 15; Sp. p. 3880; Gaz. vol. 143; p. 661.  
 Leather-staking machine. F. J. and M. A. Zdanowski. No. 915,530; Mar. 16; Sp. p. 3841; Gaz. vol. 140; p. 668.  
 Leather-staking machine. A. C. Brill. No. 941,851; Nov. 30; Sp. p. 7499; Gaz. vol. 148; p. 1260.  
 Leather-staking-machine table. F. F. Slocumb. No. 927,609; July 13; Sp. p. 1874; Gaz. vol. 144; p. 331.  
 Leather-strap-finishing machine. J. Z. Roberge. No. 916,600; Mar. 30; Sp. p. 5988; Gaz. vol. 140; p. 1074.  
 Leather-stretcher. F. J. Ruppel. No. 909,123; Jan. 5; Sp. p. 1426; Gaz. vol. 138; p. 228.  
 Leather substitute, Production of a. R. Weeber. No. 927,198; July 6; Sp. p. 1033; Gaz. vol. 144; p. 167.  
 Leather, Treating partially-tanned. W. H. Teas. No. 916,057; Mar. 23; Sp. p. 4915; Gaz. vol. 140; p. 870.  
 Leather with fabric, Coating. F. J. Gleason. No. 921,223; May 11; Sp. p. 2321; Gaz. vol. 142; p. 407.  
 Leather-worker's tool. J. B. Brassard. No. 944,660; Dec. 28; Sp. p. 5664; Gaz. vol. 149; p. 983.  
 Leather-working machine. F. K. Russell. No. 922,195; May 18; Sp. p. 4312; Gaz. vol. 142; p. 752.  
 Leather-working machine. G. V. Anderson. No. 924,873; June 15; Sp. p. 3822; Gaz. vol. 143; p. 653.  
 Leather-working machines, Work-support for. T. H. Marrinan. No. 929,772; Aug. 3; Sp. p. 296; Gaz. vol. 145; p. 51.  
 Leatherlike-surfaced fabric and making same. E. Weinheim. No. 926,526; June 29; Sp. p. 7140; Gaz. vol. 143; p. 1261.  
 Leaves, Apparatus for turning over. J. Beveridge. No. 910,777; Jan. 26; Sp. p. 4808; Gaz. vol. 138; p. 869.  
 Leaves, Swinging display-. A. M. Parks. No. 909,210; Jan. 12; Sp. p. 1606; Gaz. vol. 138; p. 288.  
 Ledger. F. H. Smith. No. 916,047; Mar. 23; Sp. p. 4895; Gaz. vol. 140; p. 867.  
 Ledger and file, Combined. L. A. Blochman. No. 935,353; Sept. 28; Sp. p. 4797; Gaz. vol. 146; p. 848.  
 Ledger-clamp, Builder's. T. H. Kingston. No. 915,187; Mar. 16; Sp. p. 3173; Gaz. vol. 140; p. 557.  
 Ledger, Loose-leaf. T. R. Eddy. No. 924,647; June 15; Sp. p. 3344; Gaz. vol. 143; p. 576.  
 Ledger, Loose-leaf. J. Bystrom. No. 933,885; Sept. 14; Sp. p. 1880; Gaz. vol. 146; p. 310.  
 Ledger, Loose-leaf. H. F. Bushong. No. 941,757; Nov. 30; Sp. p. 7280; Gaz. vol. 148; p. 1227.  
 Ledger, Self-indexing loose-leaf. P. W. Schwander. No. 940,560; Nov. 16; Sp. p. 4701; Gaz. vol. 148; p. 783.  
 Leech, Vacuum-. J. E. Walter. No. 931,102; Aug. 17; Sp. p. 3111; Gaz. vol. 145; p. 545.  
 Leer-charging apparatus. W. E. Hubbell and W. Morris. No. 924,356; June 8; Sp. p. 2746; Gaz. vol. 143; p. 448.  
 Leg, Artificial. J. T. Appar. No. 909,859; Jan. 19; Sp. p. 2867; Gaz. vol. 138; p. 536.  
 Leg, Artificial. O. A. Watson. No. 911,532; Feb. 2; Sp. p. 972; Gaz. vol. 139; p. 169.  
 Leg, Artificial. D. B. James. No. 912,130; Feb. 9; Sp. p. 2260; Gaz. vol. 139; p. 391.  
 Leg, Artificial. H. T. Odgers. No. 923,798; June 1; Sp. p. 1569; Gaz. vol. 143; p. 234.  
 Leg-fastening. G. W. Franzheim. No. 942,380; Dec. 7; Sp. p. 724; Gaz. vol. 149; p. 118.  
 Leg-guard for athletes. G. L. Pierce and R. B. Nickerson. No. 909,215; Jan. 12; Sp. p. 1615; Gaz. vol. 138; p. 290.  
 Legging. J. Staggs, L. P. Tucker, and V. A. Wood. No. 929,992; Aug. 3; Sp. p. 786; Gaz. vol. 145; p. 125.  
 Legging-fastener. M. H. Marcus. No. 927,986; July 13; Sp. p. 2671; Gaz. vol. 144; p. 455.  
 Legging, Folding storm-. T. D. Miller. No. 921,435; May 11; Sp. p. 2767; Gaz. vol. 142; p. 474.  
 Lemon-juice extractor. W. F. Easley. No. 921,378; May 11; Sp. p. 2655; Gaz. vol. 142; p. 457.  
 Lemon-slice-squeezing device. C. Doll. No. 913,365; Feb. 23; Sp. p. 4830; Gaz. vol. 139; p. 865.  
 Lemon-squeezer. A. J. Bennett. No. 912,443; Feb. 16; Sp. p. 2929; Gaz. vol. 139; p. 531.  
 Lemon-squeezer. A. J. Bennett. No. 922,449; May 25; Sp. p. 4840; Gaz. vol. 142; p. 864.  
 Lemon-squeezer. J. Wiendl. No. 940,628; Nov. 16; Sp. p. 4835; Gaz. vol. 148; p. 805.  
 Lens, Acoustic. D. Petri-Palmedo. No. 920,387; May 4; Sp. p. 611; Gaz. vol. 142; p. 97.  
 Lens, Bifocal. A. E. Covelle. No. 931,571; Aug. 17; Sp. p. 4081; Gaz. vol. 145; p. 703.  
 Lens carrier, Lantern-. F. D. Spear. No. 939,754; Nov. 9; Sp. p. 2882; Gaz. vol. 148; p. 475.  
 Lens, Deformed collective. R. Straubel and M. von Rohr. No. 934,579; Sept. 21; Sp. p. 3227; Gaz. vol. 146; p. 563.  
 Lens-drilling device. L. Wilhelm. No. 943,289; Dec. 14; Sp. p. 2710; Gaz. vol. 149; p. 457.  
 Lens for building-lights. F. Schwickart. No. 922,964; May 25; Sp. p. 5918; Gaz. vol. 142; p. 1031.  
 Lens-grinding apparatus, Bifocal-. B. Mayer. No. 914,591; Mar. 9; Sp. p. 1968; Gaz. vol. 140; p. 336.  
 Lens-grinding implement. F. Buchhop. No. 937,763; Oct. 28; Sp. p. 4510; Gaz. vol. 147; p. 783.  
 Lens-grinding machine. B. F. Clark. No. 927,949; July 13; Sp. p. 2604; Gaz. vol. 144; p. 444.  
 Lens-grinding machine. F. Buchhop. No. 939,975; Nov. 16; Sp. p. 3358; Gaz. vol. 148; p. 580.  
 Lens-grinding machine, Automatic prescription-. E. O. Mattern. No. 939,845; Nov. 9; Sp. p. 3066; Gaz. vol. 148; p. 506.  
 Lens-holder. H. S. Mills. No. 929,776; Aug. 3; Sp. p. 306; Gaz. vol. 145; p. 52.  
 Lens-holder. H. S. Mills. No. 930,210; Aug. 3; Sp. p. 1212; Gaz. vol. 145; p. 199.  
 Lens-holder. J. B. Schrock. No. 936,363; Oct. 12; Sp. p. 1603; Gaz. vol. 147; p. 272.  
 Lens-mounting. G. Lowenstein. No. 914,149; Mar. 2; Sp. p. 1050; Gaz. vol. 140; p. 166.  
 Lens-mounting. W. R. Uhlemann. No. 933,502; Sept. 7; Sp. p. 1125; Gaz. vol. 146; p. 161.  
 Lens-polishing machine. C. E. Quimby. No. 940,988; Nov. 23; Sp. p. 5607; Gaz. vol. 148; p. 950.  
 Lens-positioning instrument. B. F. Clark. No. 944,846; Dec. 28; Sp. p. 6079; Gaz. vol. 149; p. 1045.  
 Lens, Solid bifocal. C. W. Conner. No. 932,965; Aug. 31; Sp. p. 7021; Gaz. vol. 145; p. 1207.  
 Lens system. M. von Rohr. No. 940,895; Nov. 23; Sp. p. 5426; Gaz. vol. 148; p. 919.  
 Lenses, Clip for connecting temples and nose-pieces to. J. W. Woodard. No. 937,732; Oct. 19; Sp. p. 4442; Gaz. vol. 147; p. 754.  
 Lenses for spectacles or eyeglasses, Manufacture of. H. Orford. No. 943,449; Dec. 14; Sp. p. 3046; Gaz. vol. 149; p. 512.  
 Lenses, Forming. W. I. Seymour. No. 914,316; Mar. 2; Sp. p. 1412; Gaz. vol. 140; p. 218.  
 Lenses, Machine for grinding the surfaces of. E. M. Long. No. 940,978; Nov. 23; Sp. p. 5589; Gaz. vol. 148; p. 946.  
 Lenses, Making bifocal. W. Bausch. No. 930,826; Aug. 10; Sp. p. 2468; Gaz. vol. 145; p. 427.  
 Lenses, Producing bifocal. C. W. Conner. No. 925,802; June 22; Sp. p. 5698; Gaz. vol. 143; p. 987.  
 Letter and document distributor. F. Bristow. No. 933,156; Sept. 7; Sp. p. 242; Gaz. vol. 146; p. 42.  
 Letter and parcel holder. M. C. Long. No. 918,340; Apr. 13; Sp. p. 2799; Gaz. vol. 141; p. 495.  
 Letter-box. N. M. Cannady. No. 910,355; Jan. 19; Sp. p. 3933; Gaz. vol. 138; p. 707.  
 Letter-box. J. E. Norgord. No. 916,766; Mar. 30; Sp. p. 6281; Gaz. vol. 140; p. 1123.  
 Letter-box. H. C. Giles. No. 922,574; May 25; Sp. p. 5102; Gaz. vol. 142; p. 905.  
 Letter-box. J. A. Steinmetz. No. 925,524; June 22; Sp. p. 5086; Gaz. vol. 143; p. 896.  
 Letter-box, House. V. C. Koons. No. 930,484; Aug. 10; Sp. p. 1726; Gaz. vol. 145; p. 312.  
 Letter-box support. G. G. Wallace and H. Hart. No. 910,613; Jan. 26; Sp. p. 4487; Gaz. vol. 138; p. 818.  
 Letter-carrier's storm-garment. W. H. Carpenter. No. 913,694; Mar. 2; Sp. p. 28; Gaz. vol. 140; p. 7.  
 Letter-clamp. W. L. King. No. 918,329; Apr. 13; Sp. p. 2774; Gaz. vol. 141; p. 491.  
 Letter-facing tray. M. S. Field. No. 911,711; Feb. 9; Sp. p. 1373; Gaz. vol. 139; p. 255.  
 Letter-holder. I. Arnold. No. 929,370; July 27; Sp. p. 5566; Gaz. vol. 144; p. 976.  
 Letter-holder. J. W. Givens. No. 937,593; Oct. 19; Sp. p. 4168; Gaz. vol. 147; p. 709.  
 Letter, Illuminated shaded. C. H. Hulse. No. 928,916; July 20; Sp. p. 4583; Gaz. vol. 144; p. 798.  
 Letter-opener. F. E. Mason. No. 929,233; July 27; Sp. p. 5237; Gaz. vol. 144; p. 927.  
 Letter, Sign-. H. W. Piccot. No. 929,874; Aug. 3; Sp. p. 534; Gaz. vol. 145; p. 86.  
 Letter-typing device. B. P. Greenwood. No. 909,399; Jan. 12; Sp. p. 1955; Gaz. vol. 138; p. 349.  
 Letter-typing device. B. P. Greenwood. No. 925,694; June 22; Sp. p. 5433; Gaz. vol. 143; p. 950.  
 Letters and other characters, Apparatus for manufacturing. T. J. Wallace. No. 909,487; Jan. 12; Sp. p. 2135; Gaz. vol. 138; p. 378.  
 Lettering or stamping frame. H. Engan. No. 921,682; May 18; Sp. p. 3290; Gaz. vol. 142; p. 585.  
 Leuco body containing sulfur and making same. B. Homolka and R. Welde. No. 943,678; Dec. 21; Sp. p. 3561; Gaz. vol. 149; p. 620.  
 Leuco derivatives of galloyanin arylides, &c., and making same. C. Vaucher. No. 929,350; July 27; Sp. p. 5535; Gaz. vol. 144; p. 970.  
 Level. J. H. Wyatt. No. 917,699; Apr. 6; Sp. p. 1433; Gaz. vol. 141; p. 252.  
 Level. P. J. Bernard. No. 920,718; May 4; Sp. p. 1285; Gaz. vol. 142; p. 206.  
 Level. H. A. Schatz. No. 922,960; May 25; Sp. p. 5912; Gaz. vol. 142; p. 1030.  
 Level. G. J. Bensen. No. 937,357; Oct. 19; Sp. p. 3656; Gaz. vol. 147; p. 629.



*Alphabetical list of inventions—Continued.*

- Level. W. J. Neidl. No. 937,633; Oct. 19; Sp. p. 4239; Gaz. vol. 147; p. 723.
- Level. T. H. Brittain. No. 940,671; Nov. 23; Sp. p. 4937; Gaz. vol. 148; p. 844.
- Level. M. Ichtertz. No. 941,368; Nov. 30; Sp. p. 6445; Gaz. vol. 148; p. 1098.
- Level and gage, Track. C. C. Lynch. No. 935,038; Sept. 28; Sp. p. 4148; Gaz. vol. 146; p. 743.
- Level and plumb, Combined. J. L. Greene. No. 928,600; July 20; Sp. p. 3960; Gaz. vol. 144; p. 690.
- Level attachment, Spirit-. W. C. Oswald. No. 935,807; Oct. 5; Sp. p. 450; Gaz. vol. 147; p. 63.
- Level, Automatic. J. J. Garrett. No. 924,340; June 8; Sp. p. 2721; Gaz. vol. 143; p. 443.
- Level-indicating gage. L. D. Lovekin. No. 925,361; June 15; Sp. p. 4760; Gaz. vol. 143; p. 813.
- Level, Plumb-. J. E. McMahon. No. 937,631; Oct. 19; Sp. p. 4237; Gaz. vol. 147; p. 722.
- Level, Protractor-. A. J. Matter. No. 933,912; Sept. 14; Sp. p. 1943; Gaz. vol. 146; p. 320.
- Level, Spirit-. J. Day. No. 915,274; Mar. 16; Sp. p. 3345; Gaz. vol. 140; p. 584.
- Level, Spirit-. H. W. Leiby. No. 926,661; June 29; Sp. p. 7404; Gaz. vol. 143; p. 1306.
- Level, Spirit-. A. Knoll. No. 931,769; Aug. 24; Sp. p. 4549; Gaz. vol. 145; p. 790.
- Level, square, and tape-measure, Combination. R. L. Darter. No. 913,703; Mar. 2; Sp. p. 53; Gaz. vol. 140; p. 11.
- Levels, Mirror for spirit-. C. A. Seibert. No. 934,698; Sept. 21; Sp. p. 3474; Gaz. vol. 146; p. 605.
- Leveler, Automatic. E. Woodward. No. 939,372; Nov. 9; Sp. p. 2045; Gaz. vol. 148; p. 345.
- Leveling apparatus, Automatic. A. Wain. No. 925,058; Sp. p. 4200; June 15; Gaz. vol. 143; p. 715.
- Leveling-bar head. I. S. Hearn. No. 928,603; July 20; Sp. p. 3965; Gaz. vol. 144; p. 691.
- Leveling device. C. B. Anderson and T. J. Flavin. No. 923,612; June 1; Sp. p. 1125; Gaz. vol. 143; p. 172.
- Leveling instrument. A. Blair. No. 909,529; Jan. 12; Sp. p. 2215; Gaz. vol. 138; p. 393.
- Leveling instrument. E. A. Bostrom. No. 912,065; Feb. 9; Sp. p. 2143; Gaz. vol. 139; p. 370.
- Leveling instrument. R. Eberhard. No. 915,084; Mar. 16; Sp. p. 2939; Gaz. vol. 140; p. 522.
- Leveling instrument, Hydrostatic. J. J. Bunting. No. 936,407; Oct. 12; Sp. p. 1692; Gaz. vol. 147; p. 285.
- Lever. G. W. Curtis. No. 914,118; Mar. 2; Sp. p. 990; Gaz. vol. 140; p. 157.
- Lever. J. R. Weatherly. No. 939,574; Nov. 9; Sp. p. 2487; Gaz. vol. 148; p. 412.
- Lever-controlled switch. M. Hoffmann. No. 918,854; Apr. 20; Sp. p. 3943; Gaz. vol. 141; p. 694.
- Lever, Hand-. R. H. Bowman. No. 935,581; Sept. 28; Sp. p. 5261; Gaz. vol. 146; p. 922.
- Lever mechanism. J. F. S. Goble. No. 913,490; Feb. 23; Sp. p. 5073; Gaz. vol. 139; p. 906.
- Lever mechanism. L. S. Chadwick. No. 920,022; Apr. 27; Sp. p. 6537; Gaz. vol. 141; p. 1115.
- Lever, Uncoupling-. J. P. Birmingham. No. 929,188; July 27; Sp. p. 5157; Gaz. vol. 144; p. 914.
- Library-table. A. Zwiesler. No. 929,365; July 27; Sp. p. 5559; Gaz. vol. 144; p. 975.
- Lid-holder and indicator. A. L. Buzzell. No. 917,245; Apr. 6; Sp. p. 586; Gaz. vol. 141; p. 101.
- Lid, Short center. H. C. Goeltz. No. 927,649; July 13; Sp. p. 1970; Gaz. vol. 144; p. 344.
- Lids or covers having beaded rims, Device for drawing and pressing. K. Christian. No. 936,603; Oct. 12; Sp. p. 2114; Gaz. vol. 147; p. 351.
- Life-belt. D. Bouwman. No. 925,281; June 15; Sp. p. 4614; Gaz. vol. 143; p. 789.
- Life-buoy. T. E. Williams. No. 935,717; Oct. 5; Sp. p. 199; Gaz. vol. 147; p. 32.
- Life-guard. B. Lev. No. 911,053; Feb. 2; Sp. p. 60; Gaz. vol. 139; p. 12.
- Life-preserver. E. O. Stapp. No. 914,987; Mar. 9; Sp. p. 2747; Gaz. vol. 140; p. 463.
- Life-preserver. L. D. McDonald. No. 916,761; Mar. 30; Sp. p. 6272; Gaz. vol. 140; p. 1122.
- Life-preserver. G. Krieger. No. 917,315; Apr. 6; Sp. p. 738; Gaz. vol. 141; p. 126.
- Life-preserver. J. H. V. Crane. No. 917,416; Apr. 6; Sp. p. 920; Gaz. vol. 141; p. 160.
- Life-preserver. G. Krieger and W. K. Tallman. No. 928,465; July 20; Sp. p. 3680; Gaz. vol. 144; p. 647.
- Life-preserver. G. Krieger and W. K. Tallman. No. 929,313; July 27; Sp. p. 5440; Gaz. vol. 144; p. 956.
- Life-preserver-holding rack. M. Blow. No. 924,881; June 15; Sp. p. 3836; Gaz. vol. 143; p. 655.
- Life-raft. C. Ritson. No. 921,462; May 11; Sp. p. 2813; Gaz. vol. 142; p. 483.
- Life-saving and signal rocket. P. H. Goodwin. No. 932,270; Aug. 24; Sp. p. 5598; Gaz. vol. 145; p. 955.
- Life-saving and swimming clothing. J. S. Bartholomew. No. 920,246; May 4; Sp. p. 324; Gaz. vol. 142; p. 50.
- Life-saving apparatus. W. E. Peters. No. 910,017; Jan. 19; Sp. p. 3194; Gaz. vol. 138; p. 590.
- Life-saving apparatus. P. Kotlár. No. 936,546; Oct. 12; Sp. p. 2005; Gaz. vol. 147; p. 330.
- Life-saving apparatus. M. A. Mueller. No. 942,009; Nov. 30; Sp. p. 7798; Gaz. vol. 148; p. 1313.
- Life-saving apparatus for use at sea. A. J. Macleod. No. 926,268; June 29; Sp. p. 6671; Gaz. vol. 143; p. 1177.
- Life-saving apparatus, Marine. L. E. King. No. 934,322; Sept. 14; Sp. p. 2730; Gaz. vol. 146; p. 454.
- Life-saving device. F. C. Bargar. No. 923,801; June 8; Sp. p. 1601; Gaz. vol. 143; p. 265.
- Life-saving device. H. P. Teufel. No. 934,855; Sept. 21; Sp. p. 3783; Gaz. vol. 146; p. 656.
- Life-saving mattress. H. Schonboe. No. 933,671; Sept. 7; Sp. p. 1443; Gaz. vol. 146; p. 217.
- Lift, Air-. R. N. Wood. No. 932,934; Aug. 31; Sp. p. 6973; Gaz. vol. 145; p. 1197.
- Lift-strap for recumbent patients. D. Curtin. No. 908,845; Jan. 5; Sp. p. 861; Gaz. vol. 138; p. 135.
- Lifter: See Bed-spring lifter; Bottle-cap lifter; Coupling-pin lifter; Engine valve-lifter; Hay-lifter; Invalid-lifter; Kettle and pan lifter; Pan-lifter; Picture-lifter; Pie-plate lifter; Planter marker-lifter; Plate-lifter; Plate and hot-dish lifter; Plate or pan lifter; Sash-lifter; Sawmill-stock lifter; Shook-lifter; Stamp-lifter; Stove-lifter; Tie-lifter; Track-lifter; Transom-lifter; Valve-spring lifter; Wagon-body lifter.
- Lifting and lowering apparatus. J. V. Vicksell. No. 933,728; Nov. 2; Sp. p. 605; Gaz. vol. 148; p. 95.
- Lifting and spanning machine, Combined. U. S. De Moulin. No. 920,837; May 4; Sp. p. 1504; Gaz. vol. 142; p. 243.
- Lifting apparatus. T. M. Smith. No. 935,170; Sept. 28; Sp. p. 4415; Gaz. vol. 146; p. 788.
- Lifting apparatus. J. H. Gilman. No. 933,755; Nov. 2; Sp. p. 656; Gaz. vol. 148; p. 104.
- Lifting device. J. P. Reneker. No. 915,479; Mar. 16; Sp. p. 3748; Gaz. vol. 140; p. 652.
- Lifting device. F. B. La May. No. 919,731; Apr. 27; Sp. p. 5940; Gaz. vol. 141; p. 1019.
- Lifting device. L. E. Fosdick. No. 924,754; June 15; Sp. p. 3569; Gaz. vol. 143; p. 613.
- Lifting-dog. D. Parry and E. Evans. No. 934,010; Sept. 14; Sp. p. 2120; Gaz. vol. 146; p. 350.
- Lifting-frame. H. Knox. No. 920,754; May 4; Sp. p. 1333; Gaz. vol. 142; p. 216.
- Lifting-jack. G. E. Rider. No. 910,231; Jan. 19; Sp. p. 3645; Gaz. vol. 138; p. 662.
- Lifting-jack. J. B. Taylor. No. 911,089; Feb. 2; Sp. p. 131; Gaz. vol. 139; p. 24.
- Lifting-jack. W. E. Allgeo. No. 911,638; Feb. 9; Sp. p. 1220; Gaz. vol. 139; p. 231.
- Lifting-jack. J. A. Mills. No. 912,270; Feb. 9; Sp. p. 2534; Gaz. vol. 139; p. 435.
- Lifting-jack. W. H. Oliver. No. 917,789; Apr. 13; Sp. p. 1662; Gaz. vol. 141; p. 308.
- Lifting-jack. W. R. Johnson. No. 917,874; Apr. 13; Sp. p. 1838; Gaz. vol. 141; p. 335.
- Lifting-jack. F. L. Gormley and B. B. Terrill. No. 921,234; May 11; Sp. p. 2329; Gaz. vol. 142; p. 408.
- Lifting-jack. F. L. Gormley. No. 921,235; May 11; Sp. p. 2333; Gaz. vol. 142; p. 409.
- Lifting-jack. G. F. Freed. No. 922,412; May 18; Sp. p. 4751; Gaz. vol. 142; p. 824.
- Lifting-jack. A. M. Colt. No. 922,856; May 25; Sp. p. 5687; Gaz. vol. 142; p. 986.
- Lifting-jack. M. L. Jenkins. No. 923,657; June 1; Sp. p. 1212; Gaz. vol. 143; p. 186.
- Lifting-jack. H. A. Schatz. No. 924,692; June 15; Sp. p. 3439; Gaz. vol. 143; p. 591.
- Lifting-jack. F. L. Gormley. No. 929,585; July 27; Sp. p. 5933; Gaz. vol. 144; p. 1043.
- Lifting-jack. F. L. Gormley. No. 933,704; Sept. 7; Sp. p. 1515; Gaz. vol. 146; p. 228.
- Lifting-jack. F. L. Gormley. No. 933,705; Sept. 7; Sp. p. 1517; Gaz. vol. 146; p. 229.
- Lifting-jack. J. E. Crowle. No. 936,309; Oct. 12; Sp. p. 1459; Gaz. vol. 147; p. 252.
- Lifting-jack. L. Willour. No. 938,806; Nov. 2; Sp. p. 757; Gaz. vol. 148; p. 123.
- Lifting-jack. F. M. Allerton. No. 939,374; Nov. 9; Sp. p. 2076; Gaz. vol. 148; p. 346.
- Lifting-jack. E. Cook. No. 940,433; Nov. 16; Sp. p. 4429; Gaz. vol. 148; p. 740.
- Lifting-jack. F. W. and W. M. Stice. No. 943,903; Dec. 21; Sp. p. 4028; Gaz. vol. 149; p. 697.
- Lifting-jack. E. J. Jutz. No. 944,039; Dec. 21; Sp. p. 4817; Gaz. vol. 149; p. 744.
- Lifting-jack. M. L. Jenkins. No. 944,617; Dec. 28; Sp. p. 5585; Gaz. vol. 149; p. 969.
- Lifting-jack attachment. J. C. Sasser and W. T. McDonald. No. 912,737; Feb. 16; Sp. p. 3590; Gaz. vol. 139; p. 633.
- Lifting-jack-operating mechanism. F. L. Gormley. No. 934,806; Sept. 21; Sp. p. 3684; Gaz. vol. 146; p. 640.
- Lifting-jack-supporting device. W. A. Story and W. A. Hall. No. 929,047; July 27; Sp. p. 4848; Gaz. vol. 144; p. 867.
- Lifting-rod holder. G. A. Farley. No. 920,042; Apr. 27; Sp. p. 6597; Gaz. vol. 141; p. 1123.
- Light: See Drop-light; Electric light; Electric-arc light; Flash-light; Headlight; Signal-light; Signal and tail light.
- Light and power circuits, &c., Automatic switch for. P. H. McCormack. No. 918,489; Apr. 13; Sp. p. 3102; Gaz. vol. 141; p. 543.
- Light, Binnacle-. B. V. How. No. 914,840; Mar. 9; Sp. p. 2497; Gaz. vol. 140; p. 417.
- Light, Combustible mixture for producing actinic. C. Bethge. No. 908,837; Jan. 5; Sp. p. 846; Gaz. vol. 138; p. 133.
- Light-distributor. L. Stassny. No. 911,458; Feb. 2; Sp. p. 828; Gaz. vol. 139; p. 145.
- Light-distributing device. J. B. Pearson and E. W. Pierce. No. 909,447; Jan. 12; Sp. p. 2048; Gaz. vol. 138; p. 364.
- Light, Drop-. C. M. Pitel. No. 913,976; Mar. 2; Sp. p. 690; Gaz. vol. 140; p. 107.

*Alphabetical list of inventions—Continued.*

- Light-extinguisher. J. H. Burdock. No. 943,176; Dec. 14; Sp. p. 2461; Gaz. vol. 149; p. 418.  
 Light-extinguisher, Automatic. H. E. Matthai. No. 937,836; Oct. 26; Sp. p. 4662; Gaz. vol. 147; p. 807.  
 Light-fixture. A. C. Cooke. No. 908,751; Jan. 5; Sp. p. 683; Gaz. vol. 138; p. 106.  
 Light-fixture, Extension. C. M. Pitel. No. 918,904; Apr. 20; Sp. p. 4057; Gaz. vol. 141; p. 712.  
 Light-fixture, Extension. C. M. Pitel. No. 926,600; June 29; Sp. p. 7289; Gaz. vol. 143; p. 1286.  
 Light fixture, Portable electric. L. A. Williamson. No. 914,772; Mar. 9; Sp. p. 2356; Gaz. vol. 140; p. 395.  
 Light-fixture shade. P. J. Handel. No. 924,457; June 8; Sp. p. 2933; Gaz. vol. 143; p. 480.  
 Light-fixture, Turn-key for. R. M. Bryce. No. 936,518; Oct. 12; Sp. p. 1948; Gaz. vol. 147; p. 321.  
 Light producer, Focusing. J. M. Stafford. No. 930,242; Aug. 3; Sp. p. 1273; Gaz. vol. 145; p. 210.  
 Light-protector. W. H. Geddes. No. 931,407; Aug. 17; Sp. p. 3777; Gaz. vol. 145; p. 652.  
 Light-sensitive layer-carriers, Device for exposing. J. Schmuck. No. 909,459; Jan. 12; Sp. p. 2076; Gaz. vol. 138; p. 369.  
 Light-stand. G. W. Hammerschlag. No. 918,850; Apr. 20; Sp. p. 3932; Gaz. vol. 141; p. 692.  
 Lights, Adjustable hanger for. H. J. Hinds. No. 944,786; Dec. 28; Sp. p. 5939; Gaz. vol. 149; p. 1024.  
 Lights, Head-gear for supporting. D. E. Taylor. No. 933,499; Sept. 7; Sp. p. 1118; Gaz. vol. 146; p. 160.  
 Lights, Smoke and heat deflector for. J. Silverberg. No. 916,207; Mar. 23; Sp. p. 5187; Gaz. vol. 140; p. 918.  
 Lighting and extinguishing device, Automatic. A. J. Bedford. No. 939,790; Nov. 9; Sp. p. 2966; Gaz. vol. 148; p. 488.  
 Lighting and heating system, Combined. H. A. Barr. No. 932,747; Aug. 31; Sp. p. 6993; Gaz. vol. 145; p. 1201.  
 Lighting-fixture. F. W. Wakefield. No. 925,143; June 15; Sp. p. 4361; Gaz. vol. 143; p. 744.  
 Lighting-fixture, Preheating. W. N. Best, Sr. No. 928,241; July 20; Sp. p. 3197; Gaz. vol. 144; p. 570.  
 Lighting system. W. L. Bliss. No. 926,165; June 29; Sp. p. 6446; Gaz. vol. 143; p. 1143.  
 Lighting system. W. I. Thomson. No. 926,518; June 29; Sp. p. 7128; Gaz. vol. 143; p. 1258.  
 Lighting system. W. L. Bliss. No. 927,482; July 13; Sp. p. 1594; Gaz. vol. 144; p. 267.  
 Lighting systems, Generator for hydrocarbon. O. J. Seehausen. No. 930,891; Aug. 10; Sp. p. 2619; Gaz. vol. 145; p. 448.  
 Lightning-arrester. W. Gifford. No. 919,569; Apr. 27; Sp. p. 5621; Gaz. vol. 141; p. 965.  
 Lightning-arrester. E. E. F. Creighton. No. 923,024; May 25; Sp. p. 6028; Gaz. vol. 142; p. 1050.  
 Lightning-arrester. E. M. Hewlett and E. B. Merriam. No. 928,049; July 13; Sp. p. 2804; Gaz. vol. 144; p. 477.  
 Lightning-arrester. W. E. Butler. No. 931,033; Aug. 17; Sp. p. 2949; Gaz. vol. 145; p. 522.  
 Lightning-arrester. W. Gifford. No. 931,408; Aug. 17; Sp. p. 3778; Gaz. vol. 145; p. 652.  
 Lightning-arrester. R. A. Fessenden. No. 932,112; Aug. 24; Sp. p. 5295; Gaz. vol. 145; p. 902.  
 Lightning-arrester. C. T. Mason. No. 940,176; Nov. 16; Sp. p. 3835; Gaz. vol. 148; p. 651.  
 Lightning-arrester. E. W. Vogel. No. 940,220; Nov. 16; Sp. p. 3934; Gaz. vol. 148; p. 668.  
 Lightning-arrester or line-disconnector. J. W. Pedigo. No. 919,069; Apr. 20; Sp. p. 4369; Gaz. vol. 141; p. 763.  
 Lightning-arresters, Adjunct for aluminum-cell. E. E. F. Creighton. No. 933,827; Sept. 14; Sp. p. 1761; Gaz. vol. 146; p. 292.  
 Lightning-conductor and antihummer. E. Hall. No. 916,306; Mar. 23; Sp. p. 5363; Gaz. vol. 140; p. 951.  
 Lightning, Protecting buildings from. R. C. Totten. No. 926,521; June 29; Sp. p. 7132; Gaz. vol. 143; p. 1259.  
 Lightning-rod. J. F. Goetz. No. 938,137; Oct. 26; Sp. p. 5308; Gaz. vol. 147; p. 908.  
 Lightning-rods, Water retaining and conveying attachment for cable. H. Simpson. No. 940,742; Nov. 23; Sp. p. 5098; Gaz. vol. 148; p. 869.  
 Lima or analogous petroleum and related oils, Desulfurizing. C. I. Robinson. No. 910,584; Jan. 26; Sp. p. 4419; Gaz. vol. 138; p. 809.  
 Limb knee-joint, Artificial. J. H. Jepson. No. 927,973; July 13; Sp. p. 2651; Gaz. vol. 144; p. 451.  
 Limbs, Joint for artificial. F. W. Merrick. No. 942,093; Dec. 7; Sp. p. 126; Gaz. vol. 149; p. 20.  
 Lime and apparatus therefor, Burning. H. L. Doherty. No. 938,987; Nov. 2; Sp. p. 1162; Gaz. vol. 148; p. 185.  
 Lime, Apparatus for making siccate of. J. F. Pool. No. 912,887; Feb. 16; Sp. p. 3853; Gaz. vol. 139; p. 679.  
 Lime-hydrating apparatus. C. C. Kritzer. No. 932,769; Aug. 31; Sp. p. 6706; Gaz. vol. 145; p. 1150.  
 Lime, Manufacture of chlorine compound of. H. Schultze. No. 934,467; Sept. 21; Sp. p. 3021; Gaz. vol. 146; p. 527.  
 Lime, Recovering waste. J. G. Jones. No. 716,449; Mar. 30; Sp. p. 5666; Gaz. vol. 140; p. 1035.  
 Limekiln. R. Buder. No. 931,180; Aug. 17; Sp. p. 3283; Gaz. vol. 145; p. 572.  
 Line and trace holder, Combined. I. L. Carlton. No. 911,938; Feb. 9; Sp. p. 1786; Gaz. vol. 139; p. 328.  
 Line-casting machine. J. R. Rogers. No. 924,000; June 8; Sp. p. 1983; Gaz. vol. 143; p. 329.  
 Line-casting machine. J. R. Rogers. No. 924,001; June 8; Sp. p. 1985; Gaz. vol. 143; p. 329.  
 Line-casting machine. L. L. Kennedy. No. 924,243; June 8; Sp. p. 2517; Gaz. vol. 143; p. 409.  
 Line-casting machine. R. G. Clark. No. 925,753; June 22; Sp. p. 5564; Gaz. vol. 143; p. 970.  
 Line-casting machine. J. R. Rogers. No. 925,843; June 22; Sp. p. 5784; Gaz. vol. 143; p. 1001.  
 Line-casting machine. J. McNamara. No. 939,291; Nov. 9; Sp. p. 1836; Gaz. vol. 148; p. 316.  
 Line-casting machine. J. R. Rogers. No. 942,845; Dec. 7; Sp. p. 1681; Gaz. vol. 149; p. 274.  
 Line-casting machine. F. B. Converse. No. 942,848; Dec. 7; Sp. p. 1701; Gaz. vol. 149; p. 276.  
 Line-casting machine. F. C. L. D'Aix. (Reissue.) No. 13,048; Dec. 7; Sp. p. 1768; Gaz. vol. 149; p. 285.  
 Line-casting machine. F. C. L. D'Aix. No. 944,588; Dec. 28; Sp. p. 5528; Gaz. vol. 149; p. 959.  
 Line-casting machine. F. C. L. D'Aix. No. 944,981; Dec. 28; Sp. p. 6345; Gaz. vol. 149; p. 1089.  
 Line-casting machines, &c., Keyboard mechanism for. J. R. Rogers. No. 925,844; June 22; Sp. p. 5786; Gaz. vol. 143; p. 1001.  
 Line-casting machines, Keyboard mechanism for. J. R. Rogers. No. 939,325; Nov. 9; Sp. p. 1930; Gaz. vol. 148; p. 329.  
 Line-chalk. A. M. Starr. No. 921,302; May 11; Sp. p. 2468; Gaz. vol. 142; p. 429.  
 Line-check. W. H. Fowler. No. 918,988; Apr. 20; Sp. p. 4232; Gaz. vol. 141; p. 739.  
 Line coupling, Train. W. L. Bliss. No. 910,040; Jan. 19; Sp. p. 3239; Gaz. vol. 138; p. 597.  
 Line-cutter. J. J. Davin. No. 917,555; Apr. 6; Sp. p. 1166; Gaz. vol. 141; p. 203.  
 Line-holder. J. N. Landry. No. 912,387; Feb. 16; Sp. p. 2819; Gaz. vol. 139; p. 513.  
 Line-holder. C. W. Wilson. No. 924,026; June 8; Sp. p. 2032; Gaz. vol. 143; p. 337.  
 Line-roller. F. Buerkle. No. 930,591; Aug. 10; Sp. p. 1994; Gaz. vol. 145; p. 350.  
 Line-roller. W. Reuter. No. 943,787; Dec. 21; Sp. p. 3778; Gaz. vol. 149; p. 658.  
 Line setting and casting machine. H. Degener. No. 913,627; Feb. 23; Sp. p. 5391; Gaz. vol. 139; p. 953.  
 Line-spacing mechanism. E. B. Cram. No. 933,021; Aug. 31; Sp. p. 7132; Gaz. vol. 145; p. 1225.  
 Line-support. J. D. Hilliard. No. 914,837; Mar. 9; Sp. p. 2492; Gaz. vol. 140; p. 416.  
 Lineman's combination-tool. R. H. Brown. No. 921,702; May 18; Sp. p. 3493; Gaz. vol. 142; p. 621.  
 Lining for mouthpieces for voice-transmitting instruments, Germicide. A. A. Williams. No. 913,792; Mar. 2; Sp. p. 244; Gaz. vol. 140; p. 41.  
 Lining-hoop nailing-horse. W. J. Ott. No. 931,793; Aug. 24; Sp. p. 4601; Gaz. vol. 145; p. 798.  
 Linings, Machine for making head-. L. Y. Williams. No. 908,720; Jan. 5; Sp. p. 617; Gaz. vol. 138; p. 96.  
 Link, Detachable. J. Dufour. No. 943,220; Dec. 14; Sp. p. 2552; Gaz. vol. 149; p. 433.  
 Link, Detachable. J. B. Cochran. No. 944,016; Dec. 21; Sp. p. 4277; Gaz. vol. 149; p. 736.  
 Link, Elastic. J. J. Jacobs. No. 926,655; June 29; Sp. p. 7395; Gaz. vol. 143; p. 1304.  
 Link, Fusible. G. I. Rockwood. No. 911,162; Feb. 2; Sp. p. 279; Gaz. vol. 139; p. 49.  
 Link mesh. W. J. Bailey. No. 933,411; Sept. 7; Sp. p. 845; Gaz. vol. 146; p. 132.  
 Link, Resilient. G. M. Eaton. No. 937,289; Oct. 19; Sp. p. 3519; Gaz. vol. 147; p. 608.  
 Link, Reverse. M. A. Fountain. No. 937,677; Oct. 19; Sp. p. 4317; Gaz. vol. 147; p. 736.  
 Lino-slug-trimming machine. S. R. Carter. No. 939,800; Nov. 9; Sp. p. 2988; Gaz. vol. 148; p. 492.  
 Linooleum. W. D. Snow. No. 911,340; Feb. 2; Sp. p. 622; Gaz. vol. 139; p. 107.  
 Linooleum. W. D. Snow, A. B. Lucke, and D. L. Snow. No. 911,341; Feb. 2; Sp. p. 622; Gaz. vol. 139; p. 107.  
 Linooleum imitating wood, Production of. T. T. Hollinger. No. 918,153; Apr. 13; Sp. p. 2421; Gaz. vol. 141; p. 434.  
 Linooleum, Manufacture of tiled. C. v. Michalkowski. No. 927,370; July 6; Sp. p. 1330; Gaz. vol. 144; p. 222.  
 Linooleum material, Manufacturing blocks of. G. Frenkel. No. 919,341; Apr. 27; Sp. p. 5114; Gaz. vol. 141; p. 887.  
 Linotype and other type-casting machine. C. A. Albrecht and C. Muehleisen. No. 913,447; Feb. 23; Sp. p. 4987; Gaz. vol. 139; p. 893.  
 Linotype and other type-casting machines, Matrix for. C. A. Albrecht. No. 938,938; Nov. 2; Sp. p. 1071; Gaz. vol. 148; p. 170.  
 Linotype-machine. H. Larsen. No. 911,887; Feb. 9; Sp. p. 1682; Gaz. vol. 139; p. 312.  
 Linotype-machine. W. H. Scharf. No. 912,180; Feb. 9; Sp. p. 2348; Gaz. vol. 139; p. 406.  
 Linotype-machine. H. Drewell. No. 918,515; Apr. 20; Sp. p. 3167; Gaz. vol. 141; p. 581.  
 Linotype-machine. D. S. Kennedy. No. 919,024; Apr. 20; Sp. p. 4293; Gaz. vol. 141; p. 750.  
 Linotype-machine. C. Albrecht. No. 919,805; Apr. 27; Sp. p. 6073; Gaz. vol. 141; p. 1045.  
 Linotype-machine. J. R. Rogers. No. 919,957; Apr. 27; Sp. p. 6404; Gaz. vol. 141; p. 1094.  
 Linotype-machine. F. B. Converse. No. 925,754; June 22; Sp. p. 5565; Gaz. vol. 143; p. 970.  
 Linotype-machine. F. B. Converse. No. 925,755; June 22; Sp. p. 5589; Gaz. vol. 143; p. 971.  
 Linotype-machine. J. R. Rogers. No. 925,842; June 22; Sp. p. 5783; Gaz. vol. 143; p. 1001.  
 Linotype-machine. J. R. Rogers. No. 930,693; Aug. 10; Sp. p. 2192; Gaz. vol. 145; p. 383.  
 Linotype-machine. W. M. Rapp. No. 932,577; Aug. 31; Sp. p. 6235; Gaz. vol. 145; p. 1080.



*Alphabetical list of inventions—Continued.*

- Linotype-machine. F. Johannesen. No. 939,262; Nov. 9; Sp. p. 1759; Gaz. vol. 148; p. 306.
- Linotype-machine attachment. A. F. Welling. No. 933,509; Sept. 7; Sp. p. 1136; Gaz. vol. 146; p. 163.
- Linotype-machine copy-holder. C. K. Mayer. No. 918,572; Apr. 20; Sp. p. 3283; Gaz. vol. 141; p. 598.
- Linotype-machine liner. M. S. Miller. No. 908,593; Jan. 5; Sp. p. 345; Gaz. vol. 138; p. 56.
- Linotype-machine matrix. J. E. Billington and C. Holliwel. No. 935,635; Oct. 5; Sp. p. 19; Gaz. vol. 147; p. 5.
- Linotype-machine trimming mechanism. J. E. Billington and C. Holliwel. No. 910,489; Jan. 26; Sp. p. 4219; Gaz. vol. 138; p. 777.
- Linotype-machine rack or support. H. W. J. Meyer. No. 937,378; Oct. 19; Sp. p. 3707; Gaz. vol. 147; p. 636.
- Linotype-making mechanism. B. F. Bellows. No. 921,064; May 11; Sp. p. 1979; Gaz. vol. 142; p. 349.
- Linotype-matrices, Swage or resharper for deformed or battered teeth of. P. E. Kent. No. 923,275; June 1; Sp. p. 385; Gaz. vol. 143; p. 54.
- Linotype-matrix. H. Degener. No. 916,679; Mar. 30; Sp. p. 6138; Gaz. vol. 140; p. 1100.
- Lip-turning machine. W. H. Hooper. No. 940,020; Nov. 16; Sp. p. 3454; Gaz. vol. 148; p. 596.
- Lip-turning machine, Channel. W. H. Hooper. No. 940,019; Nov. 16; Sp. p. 3451; Gaz. vol. 148; p. 596.
- Liquid and gas meter. F. N. Connet. No. 934,504; Sept. 21; Sp. p. 3090; Gaz. vol. 146; p. 539.
- Liquid as a motive power, Method and means of utilizing. E. Taylor. No. 939,757; Nov. 9; Sp. p. 2906; Gaz. vol. 148; p. 477.
- Liquid-coating machine. R. A. Beausejour and G. Drubel. No. 929,375; July 27; Sp. p. 5574; Gaz. vol. 144; p. 977.
- Liquid-concentrating apparatus. O. Venter. No. 937,976; Oct. 26; Sp. p. 4952; Gaz. vol. 147; p. 854.
- Liquid-controller. W. S. Shields and J. W. Cox. No. 909,340; Jan. 12; Sp. p. 1847; Gaz. vol. 138; p. 331.
- Liquid-conveyer. E. P. Fowler. No. 930,465; Aug. 10; Sp. p. 1695; Gaz. vol. 145; p. 306.
- Liquid-conveying apparatus. J. Beaupain. No. 927,094; July 6; Sp. p. 835; Gaz. vol. 144; p. 134.
- Liquid-cooler. J. D. Hendrix. No. 939,021; Nov. 2; Sp. p. 1232; Gaz. vol. 148; p. 197.
- Liquid cooling and dispensing apparatus. G. W. and W. H. Fulper. No. 939,954; Nov. 9; Sp. p. 2552; Gaz. vol. 148; p. 418.
- Liquid-cooling apparatus. F. Bauer. No. 927,765; July 13; Sp. p. 2210; Gaz. vol. 144; p. 382.
- Liquid-cooling apparatus. F. Bauer. No. 927,766; July 13; Sp. p. 2211; Gaz. vol. 144; p. 383.
- Liquid-cooling device. T. E. Fry. No. 909,880; Jan. 19; Sp. p. 2918; Gaz. vol. 138; p. 543.
- Liquid-cooling device. T. E. Fry. No. 929,577; July 27; Sp. p. 5921; Gaz. vol. 144; p. 1041.
- Liquid, Delivering. C. L. Bastian. No. 934,956; Sept. 21; Sp. p. 3979; Gaz. vol. 146; p. 691.
- Liquid-discharging device. W. C. Morrill. No. 911,834; Feb. 9; Sp. p. 1583; Gaz. vol. 139; p. 294.
- Liquid-dispenser. S. Lippstadt. No. 928,059; July 13; Sp. p. 2822; Gaz. vol. 144; p. 480.
- Liquid-dispensing apparatus. C. S. Richman. No. 932,497; Aug. 31; Sp. p. 6069; Gaz. vol. 145; p. 1052.
- Liquid-dispensing apparatus. H. S. Cornish. No. 942,165; Dec. 7; Sp. p. 302; Gaz. vol. 149; p. 46.
- Liquid-dispensing apparatus, Coin-controlled. M. L. Buck. No. 943,649; Dec. 21; Sp. p. 3513; Gaz. vol. 149; p. 611.
- Liquid-dispensing apparatus, Hydrocarbon-. J. B. Evans. No. 916,132; Mar. 23; Sp. p. 5050; Gaz. vol. 140; p. 895.
- Liquid-dispensing cabinet, Automatic. E. Lavens. No. 929,677; Aug. 3; Sp. p. 68; Gaz. vol. 145; p. 14.
- Liquid-dispensing device. W. M. Byer. No. 924,887; June 15; Sp. p. 3857; Gaz. vol. 143; p. 657.
- Liquid-dispensing device. M. M. Marcuse. No. 936,334; Oct. 12; Sp. p. 1508; Gaz. vol. 147; p. 261.
- Liquid-dispensing vessel. L. G. Langstaff. No. 925,000; June 15; Sp. p. 4097; Gaz. vol. 143; p. 696.
- Liquid-dispensing vessel. L. G. Langstaff. No. 925,001; June 15; Sp. p. 4099; Gaz. vol. 143; p. 697.
- Liquid-distributing apparatus. H. Barber. No. 920,520; May 4; Sp. p. 864; Gaz. vol. 142; p. 139.
- Liquid-distributing apparatus. C. Potts. No. 935,231; Sept. 28; Sp. p. 4534; Gaz. vol. 146; p. 807.
- Liquid-dropper. E. K. Scott. No. 939,556; Nov. 9; Sp. p. 2447; Gaz. vol. 148; p. 406.
- Liquid-elevator. J. P. Buchanan. No. 922,749; May 25; Sp. p. 5460; Gaz. vol. 142; p. 961.
- Liquid-evaporating apparatus. J. L. Schrader. No. 909,460; Jan. 12; Sp. p. 2077; Gaz. vol. 138; p. 369.
- Liquid-feeding device. W. F. Bostock. No. 912,794; Feb. 16; Sp. p. 3707; Gaz. vol. 139; p. 652.
- Liquid-filtering apparatus. C. H. Perrin. No. 915,695; Mar. 16; Sp. p. 4222; Gaz. vol. 140; p. 727.
- Liquid-fuel burner. W. M. Simpson. No. 930,568; Aug. 10; Sp. p. 1943; Gaz. vol. 145; p. 343.
- Liquid-fuel burner. J. Darling. No. 933,829; Sept. 14; Sp. p. 1766; Gaz. vol. 146; p. 293.
- Liquid-fuel burner. C. A. Braaten. No. 939,121; Nov. 2; Sp. p. 1423; Gaz. vol. 148; p. 232.
- Liquid-fuel burner. B. Moore. No. 939,613; Nov. 9; Sp. p. 2585; Gaz. vol. 148; p. 425.
- Liquid-fuel burner. R. M. Hammond. No. 940,149; Nov. 16; Sp. p. 3769; Gaz. vol. 148; p. 643.
- Liquid-fuel burner. A. Koch. No. 940,813; Nov. 23; Sp. p. 5258; Gaz. vol. 148; p. 892.
- Liquid-fuel burner. A. E. Stevens. No. 943,482; Dec. 14; Sp. p. 3109; Gaz. vol. 149; p. 524.
- Liquid-fuel-combustion engine. H. R. Setz. No. 940,369; Nov. 16; Sp. p. 4277; Gaz. vol. 148; p. 719.
- Liquid-fuel-heating burner. M. Greatz. No. 927,851; July 13; Sp. p. 2399; Gaz. vol. 144; p. 410.
- Liquid-fuel-lighting system. A. Burton. No. 939,799; Nov. 9; Sp. p. 2986; Gaz. vol. 148; p. 491.
- Liquid-fuel-supplying apparatus. F. Rademacher. No. 931,647; Aug. 17; Sp. p. 4245; Gaz. vol. 145; p. 725.
- Liquid-gage. A. S. Garlick. No. 943,868; Dec. 21; Sp. p. 3942; Gaz. vol. 149; p. 685.
- Liquid heating and cooling apparatus. A. Jensen. No. 924,233; June 8; Sp. p. 2499; Gaz. vol. 143; p. 406.
- Liquid-impelling apparatus. W. B. Moore. No. 925,012; June 15; Sp. p. 4116; Gaz. vol. 143; p. 700.
- Liquid-indicator. E. E. Hans. No. 943,596; Dec. 14; Sp. p. 3332; Gaz. vol. 149; p. 562.
- Liquid-indicator and leak-detector. J. Foley. No. 930,171; Aug. 3; Sp. p. 1156; Gaz. vol. 145; p. 189.
- Liquid-level apparatus, Differential. E. P. Noyes. No. 909,206; Jan. 12; Sp. p. 1598; Gaz. vol. 138; p. 287.
- Liquid-level indicator. A. J. Stecker. No. 917,808; Apr. 13; Sp. p. 1694; Gaz. vol. 141; p. 314.
- Liquid materials, Package for. N. C. Phillips. No. 926,355; June 29; Sp. p. 6845; Gaz. vol. 143; p. 1204.
- Liquid-measuring faucet. F. Kenney. No. 910,475; Jan. 19; Sp. p. 4184; Gaz. vol. 138; p. 748.
- Liquid-meter. E. L. Barnes. No. 911,641; Feb. 9; Sp. p. 1226; Gaz. vol. 139; p. 232.
- Liquid-meter. J. B. Speed and A. E. Wright. No. 918,097; Apr. 13; Sp. p. 2310; Gaz. vol. 141; p. 415.
- Liquid-meter. J. B. Speed and A. E. Wright. No. 935,129; Sept. 28; Sp. p. 4346; Gaz. vol. 146; p. 775.
- Liquid pasteurizing or sterilizing apparatus. H. Christensen. No. 916,532; Mar. 30; Sp. p. 5862; Gaz. vol. 140; p. 1052.
- Liquid purifier and separator. H. E. Deckerbach. No. 921,811; May 18; Sp. p. 3538; Gaz. vol. 142; p. 628.
- Liquid-purifying apparatus. F. P. Smith. No. 924,285; June 8; Sp. p. 2594; Gaz. vol. 143; p. 423.
- Liquid-raising apparatus. V. Schwaninger. No. 923,587; June 1; Sp. p. 1068; Gaz. vol. 143; p. 162.
- Liquid-raising means. H. P. W. Esping. No. 922,870; May 25; Sp. p. 5745; Gaz. vol. 142; p. 1001.
- Liquid-receptacles, Locking and controlling device for. J. G. Williams. No. 927,621; July 13; Sp. p. 1895; Gaz. vol. 144; p. 335.
- Liquid-selling machine, Automatic. A. Meiert. No. 933,478; Sept. 7; Sp. p. 1061; Gaz. vol. 146; p. 153.
- Liquid-separator, Automatic. O. Zerkowitz. No. 924,524; June 8; Sp. p. 3060; Gaz. vol. 143; p. 501.
- Liquid-separator, Centrifugal. T. Collins and E. L. Hartmann. No. 919,131; Apr. 20; Sp. p. 4488; Gaz. vol. 141; p. 784.
- Liquid-separator, Centrifugal. P. L. Kimball. No. 928,130; July 13; Sp. p. 2943; Gaz. vol. 144; p. 503.
- Liquid-separator, Centrifugal. T. Collins and E. L. Hartmann. No. 944,321; Dec. 28; Sp. p. 4911; Gaz. vol. 149; p. 865.
- Liquid-server. E. S. Backman. No. 931,984; Aug. 24; Sp. p. 5020; Gaz. vol. 145; p. 859.
- Liquid shut-off. H. Mueller. No. 934,620; Sept. 21; Sp. p. 3325; Gaz. vol. 146; p. 578.
- Liquid shut-off, Self-closing. H. Mueller and A. Schuermann. No. 917,639; Apr. 6; Sp. p. 1316; Gaz. vol. 141; p. 232.
- Liquid storing and dispensing apparatus, Hydrocarbon-. J. B. Evans. No. 916,131; Mar. 23; Sp. p. 5049; Gaz. vol. 140; p. 895.
- Liquid storing and feeding apparatus, Hydrocarbon-. J. B. Evans. No. 916,130; Mar. 23; Sp. p. 5047; Gaz. vol. 140; p. 894.
- Liquid-supply, Means for automatically controlling. J. T. Wilmore. No. 909,355; Jan. 12; Sp. p. 1870; Gaz. vol. 138; p. 335.
- Liquid-surface drain for gas-holders. W. C. Morris. No. 914,298; Mar. 2; Sp. p. 1366; Gaz. vol. 140; p. 212.
- Liquid to skins, Machine for applying. W. B. Turner. No. 917,683; Apr. 6; Sp. p. 1393; Gaz. vol. 141; p. 246.
- Liquid-treating apparatus. K. W. Bartlett. No. 926,842; July 6; Sp. p. 282; Gaz. vol. 144; p. 46.
- Liquid-treating apparatus. K. W. Bartlett. No. 926,843; July 6; Sp. p. 287; Gaz. vol. 144; p. 46.
- Liquid-volume recorder. C. I. Carrico and B. Hawkins. No. 941,007; Nov. 23; Sp. p. 5660; Gaz. vol. 148; p. 956.
- Liquid-volume recorder. C. I. Carrico and B. Hawkins. No. 941,008; Nov. 23; Sp. p. 5663; Gaz. vol. 148; p. 956.
- Liquids, Aerating agitator for. R. D. Winship. No. 932,221; Aug. 24; Sp. p. 5515; Gaz. vol. 145; p. 939.
- Liquids and gases, Apparatus for effecting intimate contact of. S. Hersey and E. W. Blake. No. 935,501; Sept. 28; Sp. p. 5062; Gaz. vol. 146; p. 894.
- Liquids and gases chemically active upon each other, Apparatus for simultaneously treating. J. Steynis. No. 924,592; June 8; Sp. p. 3207; Gaz. vol. 143; p. 524.
- Liquids, Apparatus for controlling the flow of. A. Priestman. No. 922,629; May 25; Sp. p. 4213; Gaz. vol. 142; p. 923.
- Liquids, Apparatus for determining the depth of. J. W. Jones. No. 922,284; May 18; Sp. p. 4501; Gaz. vol. 142; p. 781.
- Liquids, Apparatus for filling receptacles with. D. Landau. No. 927,983; July 13; Sp. p. 2665; Gaz. vol. 144; p. 454.
- Liquids, Apparatus for filling vessels with. W. T. Curtis. No. 933,892; Sept. 14; Sp. p. 1894; Gaz. vol. 146; p. 313.
- Liquids, Concentrating. G. W. Childs. No. 936,760; Oct. 12; Sp. p. 2431; Gaz. vol. 147; p. 405.
- Liquids containing mineral value, Separating suspended matter from. P. J. A. Maignen. No. 932,795; Aug. 31; Sp. p. 6720; Gaz. vol. 145; p. 1152.



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- Liquids, Filling apparatus for. S. Schlangen. No. 940,366; Nov. 16; Sp. p. 4256; Gaz. vol. 148; p. 717.  
 Liquids, Filling, storing, and discharging inflammable. F. Clauss and L. Lewisson. No. 938,977; Nov. 2; Sp. p. 1144; Gaz. vol. 148; p. 183.  
 Liquids from closed receptacles, Device for drawing. G. H. Crease-Williams. No. 933,161; Sept. 7; Sp. p. 267; Gaz. vol. 146; p. 44.  
 Liquids from mixtures of gases and liquids, Apparatus for separating. A. H. Barker. No. 913,802; Mar. 2; Sp. p. 262; Gaz. vol. 140; p. 44.  
 Liquids from ores or other substances, Apparatus for extracting. E. P. Lynch. No. 910,075; Jan. 19; Sp. p. 3307; Gaz. vol. 138; p. 609.  
 Liquids from receptacles, Apparatus for recovering. J. Willmann. No. 932,931; Aug. 31; Sp. p. 6967; Gaz. vol. 145; p. 1196.  
 Liquids, Heating. P. M. C. Mauvernay. No. 911,829; Feb. 9; Sp. p. 1575; Gaz. vol. 139; p. 293.  
 Liquids, Regulator for the flow and level of. P. Sutherland. No. 927,899; July 13; Sp. p. 2500; Gaz. vol. 144; p. 426.  
 Liquids, Sprinkler or device for spraying and distributing. A. Bryan. No. 937,537; Oct. 19; Sp. p. 4005; Gaz. vol. 147; p. 680.  
 Liquids, Vessel for the conveyance or storage of. W. H. Keller. No. 916,450; Mar. 30; Sp. p. 5668; Gaz. vol. 140; p. 1025.  
 Liquids with gases, Apparatus for mixing. G. Detlefsen. No. 917,019; Apr. 6; Sp. p. 120; Gaz. vol. 141; p. 24.  
 Liquids with respect to viscosity, Indicator for testing. H. Mikorey. No. 920,604; May 4; Sp. p. 1030; Gaz. vol. 142; p. 168.  
 Liquor-cooler, Rotatable. E. H. Brunner and I. L. Higgins. No. 912,281; Feb. 16; Sp. p. 2587; Gaz. vol. 139; p. 477.  
 Lister attachment. S. E. Brown. No. 920,016; Apr. 27; Sp. p. 6522; Gaz. vol. 141; p. 1113.  
 Lister-guide. G. W. Groseclose. No. 924,766; June 15; Sp. p. 3594; Gaz. vol. 143; p. 617.  
 Listering and bedding machine. T. J. King. No. 930,192; Aug. 3; Sp. p. 1192; Gaz. vol. 145; p. 194.  
 Litharge, Making. J. E. Sullivan. No. 931,522; Aug. 17; Sp. p. 3992; Gaz. vol. 145; p. 688.  
 Litharge, Manufacturing. L. S. Hughes. No. 920,335; May 4; Sp. p. 501; Gaz. vol. 142; p. 79.  
 Lithium compounds, Manufacture of pure. E. Zell. No. 935,880; Oct. 5; Sp. p. 607; Gaz. vol. 147; p. 87.  
 Lithographic presses, Blanket for. F. A. Tessmer. No. 924,016; June 8; Sp. p. 2013; Gaz. vol. 143; p. 334.  
 Lithographic stone artificially, Manufacture of. T. M. Thom. No. 927,822; July 13; Sp. p. 2329; Gaz. vol. 144; p. 401.  
 Lithographic stones, Apparatus for the production of artificial. J. Wezel. No. 917,218; Apr. 6; Sp. p. 525; Gaz. vol. 141; p. 92.  
 Lithopone more stable against light, Rendering. W. Ostwald. No. 916,004; Mar. 23; Sp. p. 4822; Gaz. vol. 140; p. 853.  
 Litter-carrier. A. Jensen. No. 911,399; Feb. 2; Sp. p. 733; Gaz. vol. 139; p. 126.  
 Litter-carrier. A. Jensen. No. 911,558; Feb. 2; Sp. p. 1025; Gaz. vol. 139; p. 177.  
 Litter-carrier. C. C. Lawson. No. 933,994; Sept. 14; Sp. p. 2094; Gaz. vol. 146; p. 345.  
 Litter-carrier lock. J. J. Krenik. No. 929,141; July 27; Sp. p. 5054; Gaz. vol. 144; p. 898.  
 Litter-carrier trip mechanism and reaction-stop. W. Gutenkunst. No. 938,579; Nov. 2; Sp. p. 320; Gaz. vol. 148; p. 47.  
 Load-binder. W. Loudon. No. 930,397; Aug. 10; Sp. p. 1563; Gaz. vol. 145; p. 283.  
 Load-binder. R. L. Boyd. No. 931,710; Aug. 17; Sp. p. 4411; Gaz. vol. 145; p. 748.  
 Load-brake. H. Weickel and H. E. Frenzel. No. 933,866; Sept. 14; Sp. p. 1843; Gaz. vol. 146; p. 304.  
 Load lifting and releasing device. M. C. Myers. No. 913,540; Feb. 23; Sp. p. 5180; Gaz. vol. 139; p. 923.  
 Load-retaining device. E. A. Thompson. No. 928,288; July 20; Sp. p. 3327; Gaz. vol. 144; p. 588.  
 Loader. H. Ganong. No. 910,368; Jan. 19; Sp. p. 3953; Gaz. vol. 138; p. 711.  
 Loader. S. N. Krawchenko. No. 920,757; May 4; Sp. p. 1337; Gaz. vol. 142; p. 217.  
 Loader. V. Landholm. No. 922,159; May 18; Sp. p. 4237; Gaz. vol. 142; p. 740.  
 Loader. R. A. Ogle. No. 924,184; June 8; Sp. p. 2375; Gaz. vol. 143; p. 389.  
 Loader and unloader attachment. O. Grimwood. No. 929,937; Aug. 3; Sp. p. 673; Gaz. vol. 145; p. 107.  
 Loader, Foldable. C. A. Radcliff. No. 943,099; Dec. 14; Sp. p. 2319; Gaz. vol. 149; p. 394.  
 Loading and unloading apparatus. J. W. Reynolds. No. 909,222; Jan. 12; Sp. p. 1625; Gaz. vol. 138; p. 292.  
 Loading and unloading apparatus. M. G. Ducrow. No. 916,281; Mar. 23; Sp. p. 5323; Gaz. vol. 140; p. 943.  
 Loading and unloading apparatus. B. F. Miller. No. 935,042; Sept. 28; Sp. p. 4156; Gaz. vol. 146; p. 745.  
 Loading and unloading apparatus. E. E. Barrett. (Reissue.) No. 13,061; Dec. 28; Sp. p. 6407; Gaz. vol. 149; p. 1098.  
 Loading and unloading device. F. Snipes. No. 930,321; Aug. 3; Sp. p. 1406; Gaz. vol. 145; p. 233.  
 Loading and unloading device. T. Fulbright. No. 941,571; Nov. 30; Sp. p. 6880; Gaz. vol. 148; p. 1165.  
 Loading and unloading mechanism. G. Davis. No. 932,028; May 25; Sp. p. 6036; Gaz. vol. 142; p. 1051.  
 Loading apparatus. T. C. Baker. No. 910,446; Jan. 19; Sp. p. 4118; Gaz. vol. 138; p. 738.  
 Loading apparatus. T. C. Ahlbrecht. No. 919,114; Apr. 20; Sp. p. 4454; Gaz. vol. 141; p. 778.  
 Loading apparatus. J. E. Agler. No. 921,498; May 11; Sp. p. 2882; Gaz. vol. 142; p. 496.  
 Loading device. W. F. Lenhard. No. 919,735; Apr. 27; Sp. p. 5944; Gaz. vol. 141; p. 1020.  
 Loading device. T. F. Summers. No. 926,619; Jun. 29; Sp. p. 7325; Gaz. vol. 143; p. 1292.  
 Loading device, Tramway. C. A. Case. No. 910,499; Jan. 26; Sp. p. 4241; Gaz. vol. 138; p. 779.  
 Loading-fork. R. Pederson. No. 935,544; Sept. 28; Sp. p. 5186; Gaz. vol. 146; p. 909.  
 Loading-machine. F. K. Holmsted. (Reissue.) No. 12,919; Feb. 16; Sp. p. 4050; Gaz. vol. 139; p. 710.  
 Loading-machine. F. K. Holmsted. No. 944,438; Dec. 28; Sp. p. 5159; Gaz. vol. 149; p. 905.  
 Loading machine, Grain-. B. F. Kepner. No. 937,814; Oct. 26; Sp. p. 4617; Gaz. vol. 147; p. 800.  
 Loading machinery. C. W. Andrews. No. 910,038; Jan. 19; Sp. p. 3235; Gaz. vol. 138; p. 596.  
 Location-indicator. J. Hofmann. No. 909,798; Jan. 12; Sp. p. 2747; Gaz. vol. 138; p. 484.  
 Lock: See Alarm-lock; Automobile-lock; Automobile, &c., lock; Automobile combination-lock; Automobile lever-lock; Bedstead-lock; Bicycle-coaster-brake lock; Blind-lock; Bolt-lock; Bolt and nut lock; Book-lock; Bottle-lock; Bottle-stopper lock; Box-lock; Buggy-top lock; Burglar-proof lock; Cabinet and show-case lock; Cage-lock; Can-lock; Car-lock; Car-door lock; Car-window sash-lock; Case-lock; Check-lock; Coin-controlled lock; Comb-lock; Combination-lock; Cover-lock; Cycle-lock; Davit-lock; Door-lock; Door air-controlled lock; Door and window lock; Door knob or handle lock; Door, &c., latch and lock; Drawer-lock; Duplex or master-key lock; Electric lock; Electric switch-lock; Electrically-controlled lock; Elevator-gate lock; Elevator safety-lock; Emergency-lock; Fence-lock; Fire-door lock; Firearm-lock; Fluid-pressure combination-lock; Gun-lock; Gun action-slide lock; Handcuff-lock; Hasp-lock; Hay-sling lock; Hinge-lock; Indicator-lock; Keyless lock; Knob-lock; Lamp-socket lock; Last-lock; Latch-lock; Litter-carrier lock; Mail-bag lock; Mail-box lock; Meter-lock; Mortise-lock; Nail-lock; Night-lock; Nut-lock; Nut and bolt lock; Oar-lock; Padlock; Permutation-lock; Printing-press lock; Purse or bag frame lock; Rail-joint lock; Railway-switch lock; Recording-lock; Sash-lock; Sash balance and lock; Screw-lock; Seal-lock; Shutter-lock; Switch-lock; Switch-point lock; Switch-stand safety-lock; Table-lock; Time-lock; Tool-handle lock; Toy-bank lock; Trunk-lock; Tumbler-lock; Umbrella-lock; Umbrella-holder lock; Valve-lock; Vending-machine lock; Wagon-lock; Wheel-lock; Whip-lock; Whip and robe lock; Whip-socket lock; Window-lock; Window and shutter lock; Window gravity-lock.  
 Lock. W. Szymanski. No. 911,088; Feb. 2; Sp. p. 126; Gaz. vol. 139; p. 24.  
 Lock. C. Zielenski. No. 911,192; Feb. 2; Sp. p. 332; Gaz. vol. 139; p. 58.  
 Lock. O. Sohni and H. Mehl. No. 912,910; Feb. 16; Sp. p. 3900; Gaz. vol. 139; p. 687.  
 Lock. V. Bily. No. 913,458; Feb. 23; Sp. p. 5019; Gaz. vol. 139; p. 896.  
 Lock. J. W. Bodge. No. 913,942; Mar. 2; Sp. p. 595; Gaz. vol. 140; p. 95.  
 Lock. R. Kádár and I. Róth. No. 914,423; Mar. 9; Sp. p. 1635; Gaz. vol. 140; p. 279.  
 Lock. E. Gagnon. No. 914,819; Mar. 9; Sp. p. 2438; Gaz. vol. 140; p. 410.  
 Lock. A. B. Vanes. No. 915,252; Mar. 16; Sp. p. 3308; Gaz. vol. 140; p. 578.  
 Lock. G. H. Pings. No. 916,778; Mar. 30; Sp. p. 6300; Gaz. vol. 140; p. 1127.  
 Lock. T. Knight. No. 916,878; Mar. 30; Sp. p. 6491; Gaz. vol. 140; p. 1159.  
 Lock. T. Neel, W. E. Williams, and F. W. Owseney. No. 917,109; Apr. 6; Sp. p. 297; Gaz. vol. 141; p. 54.  
 Lock. T. B. Modlin and C. E. Flick. No. 917,340; Apr. 6; Sp. p. 786; Gaz. vol. 141; p. 134.  
 Lock. P. F. Augenbraun. No. 917,399; Apr. 6; Sp. p. 893; Gaz. vol. 141; p. 154.  
 Lock. A. M. H. de Bruycker. No. 917,536; Apr. 6; Sp. p. 1131; Gaz. vol. 141; p. 198.  
 Lock. J. D. Kneeder. No. 917,615; Apr. 6; Sp. p. 1268; Gaz. vol. 141; p. 224.  
 Lock. M. Nadoiski. No. 918,357; Apr. 13; Sp. p. 2827; Gaz. vol. 141; p. 500.  
 Lock. H. W. Simpson. No. 919,259; Apr. 20; Sp. p. 4914; Gaz. vol. 141; p. 824.  
 Lock. W. Noville. No. 919,627; Apr. 27; Sp. p. 5729; Gaz. vol. 141; p. 985.  
 Lock. H. W. Simpson. No. 920,091; Apr. 27; Sp. p. 6702; Gaz. vol. 141; p. 1138.  
 Lock. W. H. Thorp. No. 920,501; May 4; Sp. p. 819; Gaz. vol. 142; p. 132.  
 Lock. F. Di Bella. No. 920,839; May 4; Sp. p. 1509; Gaz. vol. 142; p. 244.  
 Lock. L. A. Wise. No. 921,048; May 11; Sp. p. 1936; Gaz. vol. 142; p. 344.  
 Lock. M. Goldstein. No. 921,232; May 11; Sp. p. 2325; Gaz. vol. 142; p. 408.  
 Lock. T. B. Jeffery. No. 921,711; May 18; Sp. p. 3334; Gaz. vol. 142; p. 594.  
 Lock. H. F. Townsend. No. 922,065; May 18; Sp. p. 4057; Gaz. vol. 142; p. 709.  
 Lock. R. Feola. No. 924,331; June 8; Sp. p. 2700; Gaz. vol. 143; p. 440.  
 Lock. W. M. Peebler. No. 924,824; June 15; Sp. p. 3721; Gaz. vol. 143; p. 637.  
 Lock. G. Merlonetti. No. 925,122; June 15; Sp. p. 4322; Gaz. vol. 143; p. 737.  
 Lock. W. J. Lambert and E. P. Doppes. No. 925,199; June 15; Sp. p. 4472; Gaz. vol. 143; p. 763.  
 Lock. F. S. Dunn. No. 925,761; June 22; Sp. p. 5609; Gaz. vol. 143; p. 973.  
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*Alphabetical list of inventions—Continued.*

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 Lock. W. A. Hurst. No. 928,761; July 20; Sp. p. 4270; Gaz. vol. 144; p. 744.  
 Lock. H. C. Voight. No. 929,638; July 27; Sp. p. 6071; Gaz. vol. 144; p. 1061.  
 Lock. H. C. Waldecker. No. 930,000; Aug. 3; Sp. p. 803; Gaz. vol. 145; p. 128.  
 Lock. J. Blaszczyk. No. 931,256; Aug. 17; Sp. p. 3449; Gaz. vol. 145; p. 599.  
 Lock. L. J. Harris. No. 931,603; Aug. 17; Sp. p. 4134; Gaz. vol. 145; p. 712.  
 Lock. B. Kreuzberger. No. 932,295; Aug. 24; Sp. p. 5652; Gaz. vol. 145; p. 964.  
 Lock. A. Leonard. No. 934,193; Sept. 14; Sp. p. 2497; Gaz. vol. 146; p. 411.  
 Lock. H. F. Kell. No. 935,913; Oct. 5; Sp. p. 676; Gaz. vol. 147; p. 98.  
 Lock. H. F. Kell. No. 935,134; Oct. 5; Sp. p. 1128; Gaz. vol. 147; p. 171.  
 Lock. J. C. Crosswell. No. 937,286; Oct. 19; Sp. p. 3513; Gaz. vol. 147; p. 607.  
 Lock. J. F. Beatty. No. 937,756; Oct. 26; Sp. p. 4492; Gaz. vol. 147; p. 780.  
 Lock. H. G. Voight. No. 938,444; Oct. 26; Sp. p. 5988; Gaz. vol. 147; p. 1014.  
 Lock. H. G. Voight. No. 938,921; Nov. 2; Sp. p. 1038; Gaz. vol. 148; p. 164.  
 Lock. H. F. Weidel. No. 938,926; Nov. 2; Sp. p. 1050; Gaz. vol. 148; p. 166.  
 Lock. H. Eckhardt. No. 938,991; Nov. 2; Sp. p. 1172; Gaz. vol. 148; p. 187.  
 Lock. B. Borland. No. 940,300; Nov. 16; Sp. p. 4111; Gaz. vol. 148; p. 695.  
 Lock. J. Hemicz. No. 941,250; Nov. 23; Sp. p. 6186; Gaz. vol. 148; p. 1038.  
 Lock. N. T. Foster and B. M. Dreska. No. 941,570; Nov. 30; Sp. p. 6379; Gaz. vol. 148; p. 1165.  
 Lock. R. Schoell. No. 943,471; Dec. 14; Sp. p. 3084; Gaz. vol. 149; p. 519.  
 Lock. R. Schoell. No. 943,637; Dec. 14; Sp. p. 3477; Gaz. vol. 149; p. 578.  
 Lock. H. W. Simpson. No. 943,898; Dec. 21; Sp. p. 4009; Gaz. vol. 149; p. 695.  
 Lock. S. Karsz. No. 944,263; Dec. 28; Sp. p. 4780; Gaz. vol. 149; p. 846.  
 Lock. J. J. Murphy. No. 944,685; Dec. 28; Sp. p. 5709; Gaz. vol. 149; p. 990.  
 Lock. A. and S. Leszczyński. No. 944,883; Dec. 28; Sp. p. 6153; Gaz. vol. 149; p. 1058.  
 Lock-alarm. J. Newman. No. 922,616; May 25; Sp. p. 5189; Gaz. vol. 142; p. 918.  
 Lock alarm attachment, Door-. E. E. Lundberg. No. 937,080; Oct. 19; Sp. p. 3071; Gaz. vol. 147; p. 540.  
 Lock and check hook. J. C. Backus. No. 920,105; May 4; Sp. p. 4; Gaz. vol. 142; p. 3.  
 Lock and fastener. J. Robertson. No. 933,586; Sept. 7; Sp. p. 1271; Gaz. vol. 146; p. 188.  
 Lock and fastening. J. S. Campbell. No. 925,455; June 22; Sp. p. 4951; Gaz. vol. 143; p. 874.  
 Lock and key for same. A. Gogmin. No. 933,703; Sept. 7; Sp. p. 1414; Gaz. vol. 146; p. 228.  
 Lock and latch. E. C. Goodwin. No. 915,851; Mar. 23; Sp. p. 4527; Gaz. vol. 140; p. 804.  
 Lock and latch, Combination. W. T. Blount, Jr. No. 924,421; June 8; Sp. p. 2868; Gaz. vol. 143; p. 468.  
 Lock and latch mechanism. W. H. Thomas. No. 929,637; July 27; Sp. p. 6068; Gaz. vol. 144; p. 1061.  
 Lock and latch mechanism. H. G. Voight. No. 932,730; Aug. 31; Sp. p. 6569; Gaz. vol. 145; p. 1132.  
 Lock and signal and lighting switch, Combined. W. R. Schlage. No. 921,168; May 11; Sp. p. 2184; Gaz. vol. 142; p. 385.  
 Lock attachment, Combination-. W. O. Johnson. No. 919,177; Apr. 20; Sp. p. 4576; Gaz. vol. 141; p. 798.  
 Lock-bolt. L. and D. Moeller. No. 939,921; Nov. 9; Sp. p. 3240; Gaz. vol. 148; p. 534.  
 Lock-case construction. A. Arens. No. 927,442; July 6; Sp. p. 1496; Gaz. vol. 144; p. 247.  
 Lock-casing. H. W. Simpson. No. 943,899; Dec. 21; Sp. p. 4017; Gaz. vol. 149; p. 696.  
 Lock-escutcheon. P. K. Magruder. No. 940,261; Nov. 16; Sp. p. 4009; Gaz. vol. 148; p. 682.  
 Lock-face and escutcheon, Combined. H. F. Keil. No. 926,336; June 29; Sp. p. 6813; Gaz. vol. 143; p. 1198.  
 Lock for doors, Coin-controlled. H. F. Chritzberg. No. 918,008; Apr. 13; Sp. p. 2135; Gaz. vol. 141; p. 384.  
 Lock for drawers of cabinets, &c. E. G. Sampson. No. 921,895; May 18; Sp. p. 3718; Gaz. vol. 142; p. 655.  
 Lock-indicator. F. E. Smith. No. 909,829; Jan. 12; Sp. p. 2801; Gaz. vol. 138; p. 494.  
 Lock-indicator. A. Arens and E. L. Teich. No. 942,806; Dec. 7; Sp. p. 1586; Gaz. vol. 149; p. 261.  
 Lock indicator, Door-. A. Arens and E. L. Teich. No. 933,231; Oct. 5; Sp. p. 1302; Gaz. vol. 147; p. 199.  
 Lock-key. I. C. Freud. No. 939,679; Nov. 9; Sp. p. 2724; Gaz. vol. 148; p. 450.  
 Lock key-holder. E. A. Benjamin. No. 911,109; Feb. 2; Sp. p. 163; Gaz. vol. 139; p. 31.  
 Lock mechanism. M. Farch. No. 935,004; Sept. 28; Sp. p. 4087; Gaz. vol. 146; p. 733.  
 Lock-nut, Eccentric. A. Brohuska. No. 908,542; Jan. 5; Sp. p. 232; Gaz. vol. 138; p. 39.  
 Lock-pin. V. V. Pittman. No. 913,560; Feb. 23; Sp. p. 5258; Gaz. vol. 139; p. 931.  
 Lock safety device. F. Michel. No. 934,928; Sept. 21; Sp. p. 3923; Gaz. vol. 146; p. 680.  
 Lock-seamer. V. Odquist and H. H. Lyche. No. 926,592; June 29; Sp. p. 7266; Gaz. vol. 143; p. 1284.  
 Lock-switch, Electric-meter. W. S. Cord and H. F. Heywood. No. 919,423; Apr. 27; Sp. p. 5288; Gaz. vol. 141; p. 915.  
 Locks and latches, Safety-guard for. G. E. Hosch. No. 941,877; Nov. 30; Sp. p. 7547; Gaz. vol. 148; p. 1269.  
 Locks, Antifiction-bearing latch-bar for. J. B. Webb. No. 928,721; July 20; Sp. p. 4190; Gaz. vol. 144; p. 730.  
 Locks, Key-stop for. W. T. Hartman. No. 930,668; Aug. 3; Sp. p. 49; Gaz. vol. 145; p. 11.  
 Locks, Roll-back hub for. A. Arens. No. 923,755; June 1; Sp. p. 1413; Gaz. vol. 143; p. 219.  
 Locks, Seal attachment for. C. H. Johnson. No. 939,699; Nov. 9; Sp. p. 2764; Gaz. vol. 148; p. 456.  
 Locker for hats, &c. G. Schwinn. No. 930,565; Aug. 10; Sp. p. 1938; Gaz. vol. 145; p. 342.  
 Locker-hook. W. N. Vance. No. 928,717; July 20; Sp. p. 4182; Gaz. vol. 144; p. 729.  
 Locking-bolt. W. T. S. Dickey. No. 931,735; Aug. 24; Sp. p. 4473; Gaz. vol. 145; p. 779.  
 Locking-border, Interchangeable. J. S. Voorhees. No. 919,094; Apr. 20; Sp. p. 4412; Gaz. vol. 141; p. 771.  
 Locking-clamp. P. J. Bernard. No. 911,936; Feb. 9; Sp. p. 1781; Gaz. vol. 139; p. 328.  
 Locking detachable joint. B. Rothschild. No. 925,654; June 22; Sp. p. 5357; Gaz. vol. 143; p. 938.  
 Locking device. M. Williams. No. 909,726; Jan. 12; Sp. p. 2611; Gaz. vol. 138; p. 462.  
 Locking device. F. H. Selden. No. 944,513; Dec. 28; Sp. p. 5349; Gaz. vol. 149; p. 932.  
 Locking device, Drawer and tray. W. H. P. Feely. No. 924,225; June 8; Sp. p. 2487; Gaz. vol. 143; p. 403.  
 Locking device for boxes, &c. A. von Heyne. No. 926,742; July 6; Sp. p. 76; Gaz. vol. 144; p. 11.  
 Locking device, Key-. W. Finn. No. 921,390; May 11; Sp. p. 2680; Gaz. vol. 142; p. 460.  
 Locking-hook. J. A. S. and J. Taylor, Jr. No. 909,037; Jan. 5; Sp. p. 1232; Gaz. vol. 138; p. 198.  
 Locking mechanism, Combination. H. Van Hovenberg. No. 943,493; Dec. 14; Sp. p. 3123; Gaz. vol. 149; p. 528.  
 Locking-receptacle, Automatic. J. W. Carter. No. 912,071; Feb. 9; Sp. p. 2156; Gaz. vol. 139; p. 372.  
 Locket. H. E. Adams. No. 932,938; Aug. 31; Sp. p. 6978; Gaz. vol. 145; p. 1198.  
 Locomotive. G. Höbner. No. 911,407; Feb. 2; Sp. p. 744; Gaz. vol. 139; p. 129.  
 Locomotive. G. W. Dillehay. No. 917,559; Apr. 6; Sp. p. 1171; Gaz. vol. 141; p. 204.  
 Locomotive. S. M. Vaclair. No. 927,386; July 6; Sp. p. 1367; Gaz. vol. 144; p. 227.  
 Locomotive. H. R. Stafford. No. 934,944; Sept. 21; Sp. p. 3959; Gaz. vol. 146; p. 687.  
 Locomotive. S. M. Vaclair. No. 936,198; Oct. 5; Sp. p. 1246; Gaz. vol. 147; p. 189.  
 Locomotive. O. N. Terry. No. 936,582; Oct. 12; Sp. p. 2072; Gaz. vol. 147; p. 343.  
 Locomotive and other furnace. A. F. Kingsley. No. 943,942; Dec. 21; Sp. p. 4109; Gaz. vol. 149; p. 712.  
 Locomotive, Articulated. S. M. Vaclair. No. 912,923; Feb. 16; Sp. p. 3923; Gaz. vol. 139; p. 691.  
 Locomotive, Articulated. S. M. Vaclair. No. 918,401; Apr. 13; Sp. p. 2915; Gaz. vol. 141; p. 514.  
 Locomotive, Articulated. G. W. Henry, Jr. No. 922,426; May 18; Sp. p. 4775; Gaz. vol. 142; p. 828.  
 Locomotive ash-pan. J. A. Kremser. No. 930,866; Aug. 10; Sp. p. 2553; Gaz. vol. 145; p. 440.  
 Locomotive ash-pan. J. S. Downing. No. 931,580; Aug. 17; Sp. p. 4100; Gaz. vol. 145; p. 706.  
 Locomotive ash-pan. R. W. Clark. No. 938,824; Nov. 2; Sp. p. 805; Gaz. vol. 148; p. 130.  
 Locomotive ash-pan. F. L. Roberts. No. 941,815; Nov. 30; Sp. p. 7417; Gaz. vol. 148; p. 1247.  
 Locomotive ash-pan. T. W. Anderson. No. 942,765; Dec. 7; Sp. p. 1515; Gaz. vol. 149; p. 248.  
 Locomotive ash-pan. J. H. Ges. No. 943,777; Dec. 21; Sp. p. 3758; Gaz. vol. 149; p. 654.  
 Locomotive ash-pan cleaner. T. Iwanami. No. 932,553; Aug. 31; Sp. p. 6183; Gaz. vol. 145; p. 1072.  
 Locomotive ash-pans, Device for cleaning. N. Olson. No. 942,737; Dec. 7; Sp. p. 1462; Gaz. vol. 149; p. 239.  
 Locomotive attachment. S. Lyon. No. 917,631; Apr. 6; Sp. p. 1303; Gaz. vol. 141; p. 230.  
 Locomotive attachment. C. E. West. No. 928,093; July 13; Sp. p. 2870; Gaz. vol. 144; p. 490.  
 Locomotive automatically-adjustable headlight. W. M. Cooper. No. 914,335; Mar. 2; Sp. p. 1443; Gaz. vol. 140; p. 224.  
 Locomotive baffle-wall. W. J. Graham and J. German. No. 934,723; Sept. 21; Sp. p. 3520; Gaz. vol. 146; p. 113.  
 Locomotive-bells, Means to prevent overturning of. C. H. Foster. No. 915,023; Mar. 9; Sp. p. 2811; Gaz. vol. 140; p. 476.  
 Locomotive-boiler. S. M. Vaclair. No. 927,299; July 6; Sp. p. 1218; Gaz. vol. 144; p. 200.  
 Locomotive-boiler. O. D. Orvis. No. 928,880; July 20; Sp. p. 4507; Gaz. vol. 144; p. 785.  
 Locomotive-boiler. G. Cook. No. 936,607; Oct. 12; Sp. p. 2130; Gaz. vol. 147; p. 353.

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 Locomotive-boiler superheater. O. W. Ott. No. 935,224; Sept. 28; Sp. p. 4520; Gaz. vol. 146; p. 804.  
 Locomotive-boilers, System of washing and filling. S. Otis and W. White. (Reissue.) No. 12,925; Mar. 9; Sp. p. 2876; Gaz. vol. 140; p. 457.  
 Locomotive-cab-window ventilator. C. M. Goodrich. No. 925,329; June 15; Sp. p. 4703; Gaz. vol. 143; p. 803.  
 Locomotive-cabs, &c., Guard or protector for. T. J. Quirk. No. 919,379; Apr. 27; Sp. p. 5192; Gaz. vol. 141; p. 900.  
 Locomotive controlling mechanism. E. L. Ragonnet. No. 930,225; Aug. 3; Sp. p. 1234; Gaz. vol. 145; p. 204.  
 Locomotive-crane underframe. T. E. Adams and C. H. Howard. No. 908,534; Jan. 6; Sp. p. 218; Gaz. vol. 138; p. 37.  
 Locomotive-cylinders, Planer for. W. J. Hagman. No. 925,696; June 22; Sp. p. 5434; Gaz. vol. 143; p. 951.  
 Locomotive driving-wheels, Hub-plate for. F. H. Smith. No. 920,094; Apr. 27; Sp. p. 6715; Gaz. vol. 141; p. 1139.  
 Locomotive-economizer. W. Wiley. No. 910,758; Jan. 26; Sp. p. 4775; Gaz. vol. 138; p. 864.  
 Locomotive, Electric. F. L. Sessions. No. 915,895; Mar. 23; Sp. p. 4608; Gaz. vol. 140; p. 818.  
 Locomotive, Electric. M. R. Hanna. No. 929,587; July 27; Sp. p. 5936; Gaz. vol. 144; p. 1044.  
 Locomotive, Electric. W. F. Hunt. No. 932,707; Aug. 31; Sp. p. 6520; Gaz. vol. 145; p. 1123.  
 Locomotive electric alarm system. G. Noreau. No. 910,222; Jan. 19; Sp. p. 3623; Gaz. vol. 138; p. 659.  
 Locomotive-engine. S. K. McLain and F. A. Pierce. No. 912,272; Feb. 9; Sp. p. 2533; Gaz. vol. 139; p. 436.  
 Locomotive-engine. H. W. Garratt. No. 912,303; Feb. 16; Sp. p. 2638; Gaz. vol. 139; p. 454.  
 Locomotive-engine. F. J. Cole and F. F. Scoville. No. 936,413; Oct. 12; Sp. p. 1704; Gaz. vol. 147; p. 287.  
 Locomotive engine and tender draft-gear. W. Bowden and A. R. Thomas. No. 909,053; Jan. 5; Sp. p. 1266; Gaz. vol. 138; p. 203.  
 Locomotive engines and tenders, Draft-gear for. C. T. Westlake and A. R. Thomas. No. 918,237; Apr. 13; Sp. p. 2605; Gaz. vol. 141; p. 462.  
 Locomotive for logging, &c. J. R. McGiffert. No. 923,564; June 1; Sp. p. 1007; Gaz. vol. 143; p. 154.  
 Locomotive-hand-rail support. C. L. Nagel. No. 926,506; June 29; Sp. p. 7106; Gaz. vol. 143; p. 1255.  
 Locomotive, Logging-. H. N. Covell. No. 930,364; Aug. 10; Sp. p. 1475; Gaz. vol. 145; p. 270.  
 Locomotive-lubricator. E. Blauhorn. No. 930,525; Aug. 10; Sp. p. 1864; Gaz. vol. 145; p. 329.  
 Locomotive-mattress, Integral. R. V. Mattison, Jr. No. 912,971; Feb. 16; Sp. p. 4022; Gaz. vol. 139; p. 706.  
 Locomotive-pilot. W. E. Justis and A. V. Littrell. No. 913,391; Feb. 23; Sp. p. 4880; Gaz. vol. 139; p. 874.  
 Locomotive recording instruments, Gearing for. S. T. Park and J. E. Phillips. No. 935,682; Oct. 5; Sp. p. 127; Gaz. vol. 147; p. 21.  
 Locomotive reverse-shaft, Articulated-. G. W. Henry, Jr. No. 911,395; Feb. 2; Sp. p. 727; Gaz. vol. 139; p. 125.  
 Locomotive sanding apparatus. C. E. Richards. No. 911,158; Feb. 2; Sp. p. 268; Gaz. vol. 139; p. 47.  
 Locomotive sanding apparatus. S. H. Dunning. No. 922,109; May 18; Sp. p. 4146; Gaz. vol. 142; p. 725.  
 Locomotive spring and equalizer system, Electric-. W. E. Woodard. No. 918,810; Apr. 20; Sp. p. 3838; Gaz. vol. 141; p. 678.  
 Locomotive spring and equalizer system, Electric-. W. Dalton and W. E. Woodard. No. 918,828; Apr. 20; Sp. p. 3885; Gaz. vol. 141; p. 685.  
 Locomotive-superheater. S. M. Vauclain. No. 922,365; May 18; Sp. p. 4641; Gaz. vol. 142; p. 807.  
 Locomotive-superheater. O. W. Ott. No. 935,223; Sept. 28; Sp. p. 4518; Gaz. vol. 146; p. 804.  
 Locomotive-tender frame. C. H. Howard. No. 940,157; Nov. 16; Sp. p. 3782; Gaz. vol. 148; p. 645.  
 Locomotive-tenders, Water-supplying device for. J. L. Wissinger. No. 926,373; June 29; Sp. p. 6873; Gaz. vol. 143; p. 1209.  
 Locomotive track-sander. J. E. Ganson. No. 933,972; Sept. 14; Sp. p. 2056; Gaz. vol. 146; p. 338.  
 Locomotive track-sander. H. L. Lambert. No. 941,457; Nov. 30; Sp. p. 6650; Gaz. vol. 148; p. 1127.  
 Locomotive washout and refilling system. F. W. Miller. No. 934,742; Sept. 21; Sp. p. 3552; Gaz. vol. 146; p. 619.  
 Locomotives and the like, Pilot for. C. T. Westlake. No. 924,709; June 15; Sp. p. 3473; Gaz. vol. 143; p. 597.  
 Locomotives and the like, Pilot for. C. T. Westlake. No. 924,949; June 15; Sp. p. 3970; Gaz. vol. 143; p. 679.  
 Locomotives and trains, Smoke and cinder conveyor for. F. Ishman. No. 917,730; Apr. 6; Sp. p. 1495; Gaz. vol. 141; p. 262.  
 Locomotives, &c., Arch for fire-boxes of. J. Loftus. No. 942,575; Dec. 7; Sp. p. 1139; Gaz. vol. 149; p. 185.  
 Locomotives, Device for disposing of ashes and cinders from. T. S. Leake. No. 924,678; June 15; Sp. p. 3408; Gaz. vol. 143; p. 586.  
 Locomotives, Device for preventing hold-ups on. C. J. Johnson. No. 933,565; Sept. 7; Sp. p. 1236; Gaz. vol. 146; p. 182.  
 Locomotives, Trailer-truck for. W. F. Kiesel, Jr. No. 923,768; Aug. 3; Sp. p. 288; Gaz. vol. 145; p. 50.  
 Log and lumber car. M. M. Russell. No. 934,362; Sept. 14; Sp. p. 2806; Gaz. vol. 146; p. 468.  
 Log-car. R. E. Frame and J. M. Rohlfing. No. 934,906; Sept. 21; Sp. p. 3872; Gaz. vol. 146; p. 673.  
 Log-chock. T. H. MacLafferty. No. 934,684; Sept. 21; Sp. p. 3449; Gaz. vol. 146; p. 600.  
 Log-conveyor. R. Grogan and C. Henson. No. 939,011; Nov. 2; Sp. p. 1214; Gaz. vol. 148; p. 194.  
 Log-grab. H. M. Rounds. No. 937,183; Oct. 19; Sp. p. 3296; Gaz. vol. 147; p. 574.  
 Log-handling device. J. G. Stoner. No. 944,829; Dec. 28; Sp. p. 6040; Gaz. vol. 149; p. 1039.  
 Log-handling mechanism. C. E. Cleveland. No. 933,231; Sept. 7; Sp. p. 453; Gaz. vol. 146; p. 70.  
 Log-haul. G. N. Gentner. No. 932,776; Aug. 31; Sp. p. 6682; Gaz. vol. 145; p. 1147.  
 Log-loader. J. R. McGiffert. No. 920,376; May 4; Sp. p. 582; Gaz. vol. 142; p. 93.  
 Log-loader. G. N. Lasswell, W. E. Hopper, I. W. Cheely, and W. D. Lasswell. No. 920,586; May 4; Sp. p. 995; Gaz. vol. 142; p. 163.  
 Log-loading apparatus. A. W. Kurz. No. 940,331; Nov. 16; Sp. p. 4183; Gaz. vol. 148; p. 706.  
 Log-skidding machine. J. R. McGiffert. No. 936,653; Oct. 12; Sp. p. 2227; Gaz. vol. 147; p. 369.  
 Log-turner. F. G. Harrington. No. 943,875; Dec. 21; Sp. p. 3955; Gaz. vol. 149; p. 687.  
 Logs, Apparatus for injecting chemicals into. W. G. Born. No. 935,888; Oct. 5; Sp. p. 619; Gaz. vol. 147; p. 89.  
 Logs, Float for. W. J. Pierpont, Jr. No. 925,221; June 15; Sp. p. 4522; Gaz. vol. 143; p. 771.  
 Logs, Machine for making heel-. W. P. Bosworth. No. 936,558; Oct. 12; Sp. p. 2621; Gaz. vol. 147; p. 437.  
 Logging and holsting engine. W. H. Corbett. No. 920,436; May 4; Sp. p. 704; Gaz. vol. 142; p. 111.  
 Logging apparatus. J. H. and M. H. Dickinson. No. 931,576; Aug. 17; Sp. p. 4091; Gaz. vol. 145; p. 704.  
 Logging-car bunk. C. W. Russell. No. 932,583; Aug. 31; Sp. p. 6258; Gaz. vol. 145; p. 1082.  
 Logging-car standard attachment. M. Majette. No. 940,262; Nov. 16; Sp. p. 4010; Gaz. vol. 148; p. 683.  
 Logging device. C. H. Starbird. No. 909,250; Jan. 12; Sp. p. 1674; Gaz. vol. 138; p. 301.  
 Logging-engine. A. Dunbar. No. 929,662; Aug. 3; Sp. p. 36; Gaz. vol. 145; p. 9.  
 Logging-grab. W. P. Smith. No. 925,961; June 22; Sp. p. 6016; Gaz. vol. 143; p. 1039.  
 Logging means, Lead-block for. S. J. and P. W. Davis. No. 933,533; Sept. 7; Sp. p. 1181; Gaz. vol. 146; p. 171.  
 Logging swivel-joint. J. V. Robinson. No. 937,960; Oct. 26; Sp. p. 4915; Gaz. vol. 147; p. 849.  
 Loom. A. E. Rhoades and W. I. Stimpson. No. 909,821; Jan. 12; Sp. p. 2789; Gaz. vol. 138; p. 491.  
 Loom. A. E. Stafford. No. 911,626; Feb. 9; Sp. p. 1192; Gaz. vol. 139; p. 226.  
 Loom. J. J. Grogan. No. 912,309; Feb. 16; Sp. p. 2650; Gaz. vol. 139; p. 486.  
 Loom. F. L. Wächtler. No. 918,801; Apr. 20; Sp. p. 3809; Gaz. vol. 141; p. 676.  
 Loom. S. Toyoda. No. 920,503; May 4; Sp. p. 822; Gaz. vol. 142; p. 133.  
 Loom. F. Tavella. No. 922,357; May 18; Sp. p. 4624; Gaz. vol. 142; p. 804.  
 Loom. W. C. Perry. No. 922,718; May 25; Sp. p. 5397; Gaz. vol. 142; p. 951.  
 Loom. H. W. Smith. No. 923,723; June 1; Sp. p. 1336; Gaz. vol. 143; p. 208.  
 Loom. W. R. Burrows. No. 924,142; June 8; Sp. p. 2262; Gaz. vol. 143; p. 374.  
 Loom. W. J. Garlick. No. 924,339; June 8; Sp. p. 2717; Gaz. vol. 143; p. 442.  
 Loom. W. R. Burrows. No. 924,886; June 15; Sp. p. 3850; Gaz. vol. 143; p. 657.  
 Loom. H. Le Doux. No. 933,187; Sept. 7; Sp. p. 336; Gaz. vol. 146; p. 53.  
 Loom. R. Crompton and J. R. Fitton. No. 934,047; Sept. 14; Sp. p. 2186; Gaz. vol. 146; p. 362.  
 Loom. F. A. Mills. No. 935,802; Oct. 5; Sp. p. 413; Gaz. vol. 147; p. 61.  
 Loom. B. F. McGuinness. No. 937,165; Oct. 19; Sp. p. 3254; Gaz. vol. 147; p. 568.  
 Loom. E. H. Ryon. No. 937,184; Oct. 19; Sp. p. 3297; Gaz. vol. 147; p. 574.  
 Loom. J. Nazarian. No. 938,886; Nov. 2; Sp. p. 945; Gaz. vol. 148; p. 150.  
 Loom. L. H. Landry. No. 943,028; Dec. 14; Sp. p. 2154; Gaz. vol. 149; p. 369.  
 Loom attachment. S. Kendrick. No. 919,023; Apr. 20; Sp. p. 4290; Gaz. vol. 141; p. 750.  
 Loom attachment. W. P. Watson. No. 926,447; June 29; Sp. p. 7014; Gaz. vol. 143; p. 1236.  
 Loom, Automatic filling-replenishing. M. L. Stone. No. 912,435; Feb. 16; Sp. p. 2908; Gaz. vol. 139; p. 528.  
 Loom, Automatic filling-replenishing. J. Northrop and E. S. Wood. No. 926,015; June 22; Sp. p. 6113; Gaz. vol. 143; p. 1057.  
 Loom, Automatic filling-replenishing feeler-. W. F. Draper and J. Northrop. No. 920,037; Apr. 27; Sp. p. 6572; Gaz. vol. 141; p. 1121.  
 Loom, Automatic wett-replenishing. J. C. Brooks. No. 911,643; Feb. 9; Sp. p. 1230; Gaz. vol. 139; p. 233.  
 Loom, Automatic wett-replenishing. M. L. Stone. No. 921,909; May 18; Sp. p. 3740; Gaz. vol. 142; p. 659.  
 Loom, Automatic wett-replenishing. E. S. Stimpson. No. 930,631; Aug. 10; Sp. p. 2077; Gaz. vol. 145; p. 363.  
 Loom, Automatic wett-replenishing. G. F. Hutchins. No. 932,131; Aug. 24; Sp. p. 5329; Gaz. vol. 145; p. 909.  
 Loom, Automatic wett-replenishing. A. E. Rhoades. No. 934,015; Sept. 14; Sp. p. 2129; Gaz. vol. 146; p. 352.  
 Loom, Automatic wett-replenishing. R. Crompton. No. 935,645; Oct. 5; Sp. p. 35; Gaz. vol. 147; p. 8.  
 Loom center-filling stop-motion. B. F. McGuinness. No. 917,644; Apr. 6; Sp. p. 1328; Gaz. vol. 141; p. 234.



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- Loom, Circular. C. Thibodeau. No. 910,742; Jan. 26; Sp. p. 4727; Gaz. vol. 138; p. 858.  
 Loom, Circular. A. E. Chernack. No. 920,728; May 4; Sp. p. 1299; Gaz. vol. 142; p. 209.  
 Loom, Circular. R. E. Evenden. No. 944,421; Dec. 28; Sp. p. 5127; Gaz. vol. 149; p. 900.  
 Loom-dobby. A. A. Gordon, Jr. No. 935,652; Oct. 5; Sp. p. 52; Gaz. vol. 147; p. 11.  
 Loom-dobby. H. Le Doux. No. 935,667; Oct. 5; Sp. p. 91; Gaz. vol. 147; p. 16.  
 Loom-dobby. E. H. Ryon. No. 936,479; Oct. 12; Sp. p. 1859; Gaz. vol. 147; p. 309.  
 Loom-dobby. T. Haworth, J. Briggs, and W. Ayrey. No. 942,826; Dec. 7; Sp. p. 1640; Gaz. vol. 149; p. 268.  
 Loom double batten, Ribbon-. C. Schneider-Gerster. No. 911,165; Feb. 2; Sp. p. 283; Gaz. vol. 139; p. 50.  
 Loom filling-detecting mechanism. R. Burgess. No. 913,196; Feb. 23; Sp. p. 4484; Gaz. vol. 139; p. 808.  
 Loom filling-detecter mechanism. G. F. Hutchins. No. 939,696; Nov. 9; Sp. p. 2757; Gaz. vol. 148; p. 455.  
 Loom filling-detecter mechanism, Welt-replenishing-. E. H. Ryon. No. 939,954; Nov. 9; Sp. p. 3307; Gaz. vol. 148; p. 545.  
 Loom filling-exhaustion-indicating device. J. E. Lemyre. No. 909,096; Jan. 5; Sp. p. 1357; Gaz. vol. 138; p. 218.  
 Loom filling-exhaustion-indicating mechanism. C. E. Nutting. No. 912,257; Feb. 9; Sp. p. 2499; Gaz. vol. 139; p. 430.  
 Loom filling-exhaustion-indicating mechanism. A. E. Rhoades. No. 912,264; Feb. 9; Sp. p. 2515; Gaz. vol. 139; p. 433.  
 Loom filling-exhaustion-indicating mechanism. A. E. Rhoades. No. 912,265; Feb. 9; Sp. p. 2519; Gaz. vol. 139; p. 433.  
 Loom filling-fork grid. W. L. Scott. No. 916,617; Mar. 30; Sp. p. 6030; Gaz. vol. 140; p. 1081.  
 Loom, Filling-replenishing. J. Northrop. No. 926,354; June 29; Sp. p. 6843; Gaz. vol. 143; p. 1204.  
 Loom filling-stop-signaling device. A. E. Rhoades. No. 912,415; Feb. 16; Sp. p. 2873; Gaz. vol. 139; p. 521.  
 Loom for making tufted fabrics. F. A. Whitmore. No. 941,176; Nov. 23; Sp. p. 6029; Gaz. vol. 148; p. 1013.  
 Loom for the manufacture of tufted or pile fabrics. T. Greenwood. No. 915,853; Mar. 23; Sp. p. 4529; Gaz. vol. 140; p. 804.  
 Loom for weaving cut pile fabrics. F. W. Rochelle. No. 918,371; Apr. 13; Sp. p. 2854; Gaz. vol. 141; p. 505.  
 Loom for weaving tufted fabric. H. Wyman. No. 942,953; Dec. 14; Sp. p. 1982; Gaz. vol. 149; p. 343.  
 Loom for weaving tufted or chenille fabrics. F. A. Whitmore. No. 916,077; Mar. 23; Sp. p. 4947; Gaz. vol. 140; p. 877.  
 Loom for weaving tufted pile fabrics. J. P. Humphries. No. 940,531; Nov. 16; Sp. p. 4630; Gaz. vol. 148; p. 773.  
 Loom friction let-off mechanism. P. Ashby. No. 908,724; Jan. 5; Sp. p. 627; Gaz. vol. 138; p. 97.  
 Loom, Haircloth-. G. S. Cox. No. 931,276; Aug. 17; Sp. p. 3502; Gaz. vol. 145; p. 606.  
 Loom, Haircloth-. G. S. Cox. No. 931,683; Aug. 17; Sp. p. 4319; Gaz. vol. 145; p. 738.  
 Loom harness-leveling mechanism. A. and S. Widmer. No. 915,916; Mar. 23; Sp. p. 4645; Gaz. vol. 140; p. 824.  
 Loom harness mechanism. E. S. Stimpson. No. 929,802; Aug. 3; Sp. p. 370; Gaz. vol. 145; p. 61.  
 Loom harness-motion. H. Le Doux. No. 935,666; Oct. 5; Sp. p. 90; Gaz. vol. 147; p. 15.  
 Loom harness-motion. D. D. Miller. No. 943,262; Dec. 14; Sp. p. 2644; Gaz. vol. 149; p. 448.  
 Loom-heddle. W. H. Hartley. No. 916,862; Mar. 30; Sp. p. 6465; Gaz. vol. 140; p. 1155.  
 Loom let-off mechanism. J. Northrop. No. 912,722; Feb. 16; Sp. p. 3545; Gaz. vol. 139; p. 628.  
 Loom let-off mechanism. W. F. Draper and E. S. Wood. No. 912,942; Feb. 16; Sp. p. 3596; Gaz. vol. 139; p. 696.  
 Loom let-off mechanism. J. Northrop. No. 941,380; Nov. 30; Sp. p. 6472; Gaz. vol. 148; p. 1102.  
 Loom let-off mechanism, Narrow-ware-. G. W. Kuenneth. No. 940,330; Nov. 16; Sp. p. 4180; Gaz. vol. 148; p. 705.  
 Loom let-off mechanism, Narrow-ware-. J. C. Gaynor. No. 943,741; Dec. 21; Sp. p. 3689; Gaz. vol. 149; p. 641.  
 Loom let-off motion. H. Herzberg. No. 909,596; Jan. 12; Sp. p. 2345; Gaz. vol. 138; p. 416.  
 Loom magazine, Welt-replenishing-. H. Wyman. No. 938,540; Nov. 2; Sp. p. 224; Gaz. vol. 148; p. 33.  
 Loom mechanical welt-feeling mechanism. J. Taylor and E. W. Buckley. No. 915,248; Mar. 16; Sp. p. 3299; Gaz. vol. 140; p. 576.  
 Loom, Narrow-ware. E. R. Holmes and I. H. Verry. No. 917,435; Apr. 6; Sp. p. 949; Gaz. vol. 141; p. 165.  
 Loom needle-motion, Pile-fabric-. J. A. Clark. No. 912,648; Feb. 16; Sp. p. 3351; Gaz. vol. 139; p. 602.  
 Loom pattern-card. J. Gohy. No. 908,559; Jan. 5; Sp. p. 265; Gaz. vol. 138; p. 45.  
 Loom pattern-card. J. Gohy. No. 909,078; Jan. 5; Sp. p. 1318; Gaz. vol. 138; p. 212.  
 Loom pattern mechanism. W. J. Lutton. No. 917,088; Apr. 6; Sp. p. 255; Gaz. vol. 141; p. 46.  
 Loom pattern mechanism. H. A. Owen and A. K. Pratt. No. 939,299; Nov. 9; Sp. p. 1879; Gaz. vol. 148; p. 320.  
 Loom pick-ball cover. T. Nevins. No. 912,403; Feb. 16; Sp. p. 2853; Gaz. vol. 139; p. 518.  
 Loom pick-finder mechanism. B. F. McGuinness. No. 913,301; Feb. 23; Sp. p. 4692; Gaz. vol. 139; p. 842.  
 Loom-picker. C. Potras. No. 909,333; Jan. 12; Sp. p. 1835; Gaz. vol. 138; p. 329.  
 Loom-picker. C. T. Walker. No. 929,552; July 27; Sp. p. 5537; Gaz. vol. 144; p. 970.  
 Loom picker-check. W. H. Pierce and F. Aspin. No. 910,572; Jan. 26; Sp. p. 4391; Gaz. vol. 138; p. 805.  
 Loom picker mechanism. B. Trimble. No. 933,403; Sept. 7; Sp. p. 831; Gaz. vol. 146; p. 129.  
 Loom picker mechanism. J. H. Malley. No. 934,328; Sept. 14; Sp. p. 2748; Gaz. vol. 146; p. 456.  
 Loom picker-stick check. T. Nevins. No. 914,360; Mar. 2; Sp. p. 1511; Gaz. vol. 140; p. 233.  
 Loom picker-stick check. A. E. Rhoades. No. 919,464; Apr. 27; Sp. p. 5385; Gaz. vol. 141; p. 929.  
 Loom picker-stick mechanism. L. P. Sherman. No. 939,560; Nov. 9; Sp. p. 2455; Gaz. vol. 148; p. 407.  
 Loom picking-motion. W. H. Ayer. No. 941,844; Nov. 30; Sp. p. 7486; Gaz. vol. 148; p. 1258.  
 Loom picking-stick, Underpick-. W. Bond and J. Baxendale. No. 920,528; May 4; Sp. p. 877; Gaz. vol. 142; p. 142.  
 Loom protection mechanism. J. Northrop. No. 911,152; Feb. 2; Sp. p. 259; Gaz. vol. 139; p. 45.  
 Loom protection mechanism. W. F. Draper. No. 911,219; Feb. 2; Sp. p. 383; Gaz. vol. 139; p. 67.  
 Loom-reed. H. Côté and R. C. Snow. No. 915,335; Mar. 16; Sp. p. 3466; Gaz. vol. 140; p. 605.  
 Loom reed-threading device. H. Côté and R. C. Snow. No. 915,336; Mar. 16; Sp. p. 3468; Gaz. vol. 140; p. 605.  
 Loom, Ribbon-. A. Handschin and H. Kuny. No. 944,610; Dec. 28; Sp. p. 5575; Gaz. vol. 149; p. 966.  
 Loom selecting device, Haircloth-. G. S. Cox. No. 923,144; June 1; Sp. p. 45; Gaz. vol. 143; p. 8.  
 Loom selvage-motion. J. Belavance. No. 913,095; Feb. 23; Sp. p. 4271; Gaz. vol. 139; p. 774.  
 Loom shedding mechanism. H. Bardsley. No. 913,935; Mar. 2; Sp. p. 580; Gaz. vol. 140; p. 92.  
 Loom shedding mechanism. A. and S. Widmer. No. 921,772; May 18; Sp. p. 3463; Gaz. vol. 142; p. 615.  
 Loom-shuttle. W. F. Draper. No. 909,377; Jan. 12; Sp. p. 1919; Gaz. vol. 138; p. 342.  
 Loom-shuttle. W. F. Draper and J. Northrop. No. 909,771; Jan. 12; Sp. p. 2690; Gaz. vol. 138; p. 476.  
 Loom-shuttle. J. H. Morin. No. 911,058; Feb. 2; Sp. p. 72; Gaz. vol. 139; p. 13.  
 Loom-shuttle. A. Buckler. No. 916,415; Mar. 30; Sp. p. 5592; Gaz. vol. 140; p. 1013.  
 Loom-shuttle. H. M. Brown. No. 918,123; Apr. 13; Sp. p. 2367; Gaz. vol. 141; p. 424.  
 Loom-shuttle. F. Renzo. No. 919,637; Apr. 27; Sp. p. 5747; Gaz. vol. 141; p. 989.  
 Loom-shuttle. S. A. Dudley. No. 921,377; May 11; Sp. p. 2654; Gaz. vol. 142; p. 456.  
 Loom-shuttle. J. Northrop. No. 926,017; June 22; Sp. p. 6126; Gaz. vol. 143; p. 1058.  
 Loom-shuttle. J. Northrop and E. S. Wood. No. 926,678; June 29; Sp. p. 7431; Gaz. vol. 143; p. 1311.  
 Loom-shuttle. A. B. Edmands. No. 926,692; June 29; Sp. p. 7469; Gaz. vol. 143; p. 1316.  
 Loom-shuttle. I. Snow. No. 928,077; July 13; Sp. p. 2849; Gaz. vol. 144; p. 486.  
 Loom-shuttle. J. Lacroix. No. 933,376; Sept. 7; Sp. p. 787; Gaz. vol. 146; p. 121.  
 Loom-shuttle. J. V. Cuniff and C. Raferty. No. 939,892; Nov. 9; Sp. p. 3169; Gaz. vol. 148; p. 523.  
 Loom shuttle, Automatic filling-replenishing-. W. F. Draper and J. Northrop. No. 920,038; Apr. 27; Sp. p. 6587; Gaz. vol. 141; p. 1121.  
 Loom-shuttle, Automatically-threading. J. Northrop. No. 926,016; June 22; Sp. p. 6119; Gaz. vol. 143; p. 1057.  
 Loom-shuttle, Automatically-threading. A. W. Beardsell. No. 929,817; Aug. 3; Sp. p. 403; Gaz. vol. 145; p. 66.  
 Loom-shuttle-box, Bobbin-changing-. J. Gabler. No. 926,480; June 29; Sp. p. 7064; Gaz. vol. 143; p. 1245.  
 Loom-shuttle-box motion. J. M. Marco. No. 914,739; Mar. 9; Sp. p. 2294; Gaz. vol. 140; p. 383.  
 Loom-shuttle-box-operating mechanism. G. M. Foster. No. 918,430; Apr. 13; Sp. p. 2972; Gaz. vol. 141; p. 523.  
 Loom, Shuttle-changing. E. H. Ryon. No. 936,949; Oct. 12; Sp. p. 2793; Gaz. vol. 147; p. 467.  
 Loom, Shuttle-changing. B. F. McGuinness. No. 943,038; Dec. 14; Sp. p. 2178; Gaz. vol. 149; p. 372.  
 Loom shuttle mechanism. P. Martourey. No. 913,667; Feb. 23; Sp. p. 5484; Gaz. vol. 139; p. 966.  
 Loom shuttle-motion. E. H. Ryon. No. 911,334; Feb. 2; Sp. p. 610; Gaz. vol. 139; p. 105.  
 Loom shuttle-motion. J. A. Gendron. No. 928,440; July 20; Sp. p. 3623; Gaz. vol. 144; p. 639.  
 Loom shuttle-operating mechanism, Narrow-ware-. E. R. Holmes. No. 914,048; Mar. 2; Sp. p. 850; Gaz. vol. 140; p. 131.  
 Loom shuttle or filling-carrier. O. A. Sawyer. No. 937,963; Oct. 26; Sp. p. 4922; Gaz. vol. 147; p. 850.  
 Loom shuttle-picking mechanism. I. E. Palmer. No. 938,785; Nov. 2; Sp. p. 717; Gaz. vol. 148; p. 115.  
 Loom side-filling stop-motion. C. Partlow. No. 915,472; Mar. 16; Sp. p. 3736; Gaz. vol. 140; p. 649.  
 Loom-side protector. O. C. Goulet and A. Lamarre. No. 924,451; June 8; Sp. p. 2916; Gaz. vol. 143; p. 478.  
 Loom starting and stopping mechanism. A. E. Rhoades. No. 926,021; June 22; Sp. p. 6133; Gaz. vol. 143; p. 1059.  
 Loom stop-motion. D. Ward. No. 917,817; Apr. 13; Sp. p. 1720; Gaz. vol. 141; p. 317.  
 Loom stop-motion. O. A. Sawyer. No. 938,712; Nov. 2; Sp. p. 574; Gaz. vol. 148; p. 90.  
 Loom stop-motion mechanism. J. B. Whitney. No. 923,393; June 1; Sp. p. 650; Gaz. vol. 143; p. 94.  
 Loom stopping mechanism. T. A. B. Carver. No. 911,378; Feb. 2; Sp. p. 693; Gaz. vol. 139; p. 119.  
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 Loom take-up mechanism. T. Nevin. No. 913,908; Mar. 2; Sp. p. 511; Gaz. vol. 140; p. 83.  
 Loom take-up mechanism. A. E. Rhoades. No. 913,914; Mar. 2; Sp. p. 530; Gaz. vol. 140; p. 85.  
 Loom take-up mechanism. A. E. Rhoades. No. 913,915; Mar. 2; Sp. p. 532; Gaz. vol. 140; p. 86.  
 Loom take-up mechanism. J. O'Sullivan. No. 913,969; Mar. 2; Sp. p. 656; Gaz. vol. 140; p. 104.  
 Loom take-up mechanism. T. Nevin. (Reissue.) No. 12,944; Apr. 20; Sp. p. 5019; Gaz. vol. 141; p. 843.  
 Loom take-up mechanism. W. E. Fischer. No. 931,745; Aug. 24; Sp. p. 4491; Gaz. vol. 145; p. 782.  
 Loom take-up mechanism. A. E. Rhoades. No. 944,579; Dec. 28; Sp. p. 5503; Gaz. vol. 149; p. 955.  
 Loom-temple. J. E. Prest. No. 914,509; Mar. 9; Sp. p. 1792; Gaz. vol. 140; p. 307.  
 Loom-temple. A. Fortuna. No. 929,417; July 27; Sp. p. 5640; Gaz. vol. 144; p. 990.  
 Loom-temple. W. H. Kynett. No. 936,459; Oct. 12; Sp. p. 1817; Gaz. vol. 147; p. 302.  
 Loom-temple. N. I. Allen. No. 940,776; Nov. 23; Sp. p. 5185; Gaz. vol. 148; p. 880.  
 Loom-temple. L. H. Landry. No. 943,150; Dec. 14; Sp. p. 2423; Gaz. vol. 149; p. 411.  
 Loom-temple attachment. B. Janelle. No. 932,022; Aug. 24; Sp. p. 5103; Gaz. vol. 145; p. 872.  
 Loom-temple mechanism. I. E. Lawrence. No. 932,298; Aug. 24; Sp. p. 5658; Gaz. vol. 145; p. 965.  
 Loom, Terry-. H. Bardsley. No. 937,139; Oct. 19; Sp. p. 3197; Gaz. vol. 147; p. 559.  
 Loom terry-motion. J. L. Davidson. No. 936,310; Oct. 12; Sp. p. 1462; Gaz. vol. 147; p. 253.  
 Loom thin-place preventer. J. T. Rutledge. No. 924,190; June 8; Sp. p. 2387; Gaz. vol. 143; p. 391.  
 Loom thread-guide. J. Robinson. No. 943,270; Dec. 14; Sp. p. 2660; Gaz. vol. 149; p. 450.  
 Loom thread-parting mechanism. A. E. Rhoades. No. 912,416; Feb. 16; Sp. p. 2875; Gaz. vol. 139; p. 522.  
 Loom thread-parting mechanism. A. E. Rhoades. No. 913,916; Mar. 2; Sp. p. 534; Gaz. vol. 140; p. 86.  
 Loom thread-parting mechanism. A. E. Rhoades. No. 922,511; May 25; Sp. p. 4958; Gaz. vol. 142; p. 883.  
 Loom thread-parting mechanism. W. E. Clifford. No. 931,913; Aug. 24; Sp. p. 4877; Gaz. vol. 145; p. 836.  
 Loom tip-support, Automatic filling-replenishing-. E. Cunliff, A. Coderre, and O. Benson. No. 915,161; Mar. 16; Sp. p. 3126; Gaz. vol. 140; p. 548.  
 Loom-warp, Means for applying wax to. W. F. Mintel. No. 940,607; Nov. 16; Sp. p. 4787; Gaz. vol. 148; p. 798.  
 Loom warp stop-motion. A. E. Rhoades. No. 909,822; Jan. 12; Sp. p. 2792; Gaz. vol. 138; p. 491.  
 Loom warp stop-motion. G. M. Foster. No. 911,002; Jan. 26; Sp. p. 5228; Gaz. vol. 138; p. 942.  
 Loom warp stop-motion. H. Wyman. No. 937,136; Oct. 19; Sp. p. 3189; Gaz. vol. 147; p. 558.  
 Loom warp stop-motion. E. S. Stimpson. No. 937,888; Oct. 26; Sp. p. 4772; Gaz. vol. 147; p. 825.  
 Loom weft-clamping device. A. Baldwin. No. 910,348; Jan. 19; Sp. p. 3918; Gaz. vol. 138; p. 705.  
 Loom weft-feeler. J. Northrop. No. 911,672; Feb. 9; Sp. p. 1292; Gaz. vol. 139; p. 242.  
 Loom, Weft-replenishing. M. L. Stone. No. 923,460; June 1; Sp. p. 785; Gaz. vol. 143; p. 117.  
 Loom, Weft-replenishing. H. W. Smith. No. 930,425; Aug. 10; Sp. p. 1615; Gaz. vol. 145; p. 293.  
 Loom, Weft-replenishing. H. Wyman. No. 931,829; Aug. 24; Sp. p. 4666; Gaz. vol. 145; p. 809.  
 Loom, Weft-replenishing. A. A. Gordon, Jr. No. 932,119; Aug. 24; Sp. p. 5309; Gaz. vol. 145; p. 905.  
 Loom, Weft-replenishing. L. B. Jenckes and G. F. Hutchins. No. 932,134; Aug. 24; Sp. p. 5338; Gaz. vol. 145; p. 910.  
 Loom, Weft-replenishing. E. H. Ryon. No. 932,178; Aug. 24; Sp. p. 5421; Gaz. vol. 145; p. 924.  
 Loom, Weft-replenishing. C. Tiberghien. No. 932,831; Aug. 31; Sp. p. 6781; Gaz. vol. 145; p. 1163.  
 Loom, Weft-replenishing. E. H. Ryon. No. 933,492; Sept. 7; Sp. p. 1097; Gaz. vol. 146; p. 157.  
 Loom, Weft-replenishing. G. B. Ambler. No. 933,613; Sept. 7; Sp. p. 1334; Gaz. vol. 146; p. 198.  
 Loom, Weft-replenishing. R. Zschweigert. No. 933,813; Sept. 14; Sp. p. 1732; Gaz. vol. 146; p. 287.  
 Loom, Weft-replenishing. P. Macpherson. No. 935,671; Oct. 5; Sp. p. 98; Gaz. vol. 147; p. 17.  
 Loom, Weft-replenishing. E. H. Ryon. No. 935,693; Oct. 5; Sp. p. 150; Gaz. vol. 147; p. 24.  
 Loom, Weft-replenishing. H. Wyman. No. 935,720; Oct. 5; Sp. p. 206; Gaz. vol. 147; p. 33.  
 Loom, Weft-replenishing. H. N. Arthur. No. 936,510; Oct. 12; Sp. p. 1931; Gaz. vol. 147; p. 319.  
 Loom, Weft-replenishing. H. Wyman. No. 937,979; Oct. 26; Sp. p. 4958; Gaz. vol. 147; p. 855.  
 Loom, Weft-replenishing. H. Wyman. No. 937,980; Oct. 26; Sp. p. 4961; Gaz. vol. 147; p. 855.  
 Loom, Weft-replenishing. E. H. Ryon. No. 939,326; Nov. 9; Sp. p. 1930; Gaz. vol. 148; p. 330.  
 Loom, Weft-replenishing. H. Wyman and J. T. Cyr. No. 941,179; Nov. 23; Sp. p. 6046; Gaz. vol. 148; p. 1015.  
 Loom, Weft-replenishing. B. F. McGuinness. No. 943,756; Dec. 21; Sp. p. 3717; Gaz. vol. 149; p. 647.  
 Loom, Weft-replenishing. E. H. Ryon. No. 943,896; Dec. 21; Sp. p. 4003; Gaz. vol. 149; p. 695.  
 Loom weft-replenishing mechanism. F. O'Donnell. No. 916,362; Mar. 23; Sp. p. 5468; Gaz. vol. 140; p. 971.  
 Loom weft-replenishing mechanism. C. Klein. No. 924,996; June 15; Sp. p. 4083; Gaz. vol. 143; p. 695.  
 Loom weft-replenishing mechanism. H. Zwicky. No. 926,918; July 6; Sp. p. 446; Gaz. vol. 144; p. 72.  
 Loom weft-replenishing mechanism. O. A. Sawyer. No. 938,711; Nov. 2; Sp. p. 572; Gaz. vol. 148; p. 90.  
 Loom weft-replenishing mechanism, Automatic. M. L. Stone. No. 940,286; Nov. 16; Sp. p. 4073; Gaz. vol. 148; p. 691.  
 Loom, Wire-fence. V. Hoxie. No. 943,412; Dec. 14; Sp. p. 2956; Gaz. vol. 149; p. 498.  
 Loom yarn-stripper, Weft-replenishing-. F. W. Moore. No. 937,838; Oct. 26; Sp. p. 4665; Gaz. vol. 147; p. 808.  
 Looms, Bobbin for filling-replenishing. F. Dion. No. 936,524; Oct. 12; Sp. p. 1960; Gaz. vol. 147; p. 323.  
 Looms, Center-selvage mechanism or attachment for. A. A. Gordon, Jr. No. 936,445; Oct. 12; Sp. p. 1793; Gaz. vol. 147; p. 298.  
 Looms, Change-gear for mechanical. F. L. Wächter. No. 930,707; Aug. 10; Sp. p. 2227; Gaz. vol. 145; p. 387.  
 Looms, Cutting attachment for. P. Clemens and G. H. Repert. No. 944,947; Dec. 28; Sp. p. 6273; Gaz. vol. 149; p. 1078.  
 Looms, Device for prevention of arbitrary registration in counters for mechanical. S. Marschik. No. 943,948; Dec. 21; Sp. p. 4118; Gaz. vol. 149; p. 714.  
 Looms, Differential filling-supply-gaging device for. S. S. Jackson. No. 940,600; Nov. 16; Sp. p. 4774; Gaz. vol. 148; p. 795.  
 Looms, Filling-carrier for weft-replenishing. J. R. Fitton and C. H. Berglund. No. 934,062; Sept. 14; Sp. p. 2216; Gaz. vol. 146; p. 366.  
 Looms, Filling-detector mechanism for weft-replenishing. B. F. McGuinness. No. 943,702; Dec. 21; Sp. p. 3610; Gaz. vol. 149; p. 628.  
 Looms, Filling-exhaustion-indicating means for. A. E. Rhoades. No. 943,846; Dec. 21; Sp. p. 3899; Gaz. vol. 149; p. 678.  
 Looms, Filling-thread-cutting device for weft-replenishing. B. F. McGuinness. No. 939,433; Nov. 9; Sp. p. 2197; Gaz. vol. 148; p. 365.  
 Looms for weaving, Automatic weft-replenishing mechanism for. J. W. Cook. No. 931,997; Aug. 24; Sp. p. 5050; Gaz. vol. 145; p. 864.  
 Looms for weaving, Beating-up mechanism of. W. Hollas, R. Farnworth, and T. Jackson. No. 939,503; Nov. 9; Sp. p. 2336; Gaz. vol. 148; p. 387.  
 Looms for weaving, Dobby of. W. J. Moxon and T. A. Paterson. No. 908,687; Jan. 5; Sp. p. 544; Gaz. vol. 138; p. 85.  
 Looms, Lay for. W. Wattie. No. 923,223; June 1; Sp. p. 212; Gaz. vol. 143; p. 35.  
 Looms, Lease-controlled stop-motion for. J. M. Yuill. No. 929,811; Aug. 3; Sp. p. 387; Gaz. vol. 145; p. 64.  
 Looms, Magazine for automatic weft-replenishing. W. S. Southwick. No. 930,812; Aug. 10; Sp. p. 2440; Gaz. vol. 145; p. 423.  
 Looms, Means for facilitating warp change in. A. E. Rhoades. No. 916,596; Mar. 30; Sp. p. 5981; Gaz. vol. 140; p. 1073.  
 Looms, Mechanical weft-feeling mechanism for. J. Taylor and E. W. Buckley. No. 934,372; Sept. 14; Sp. p. 2826; Gaz. vol. 146; p. 472.  
 Looms, Needle mechanism for cane-. J. Tilp. No. 929,346; July 27; Sp. p. 5526; Gaz. vol. 144; p. 968.  
 Looms, Pattern mechanism of. O. L. Owen. No. 928,278; July 20; Sp. p. 3312; Gaz. vol. 144; p. 585.  
 Looms, Pick-counter for. M. L. Stone. No. 943,049; Dec. 14; Sp. p. 2219; Gaz. vol. 149; p. 377.  
 Looms, Pick-matching mechanism for automatic weft-replenishing. G. H. Leitner and W. E. Johnson. No. 927,662; July 13; Sp. p. 2004; Gaz. vol. 144; p. 349.  
 Looms, Pile-cutting device for carpet-. F. Farmer. No. 921,818; May 18; Sp. p. 3549; Gaz. vol. 142; p. 630.  
 Looms, Reed-actuating mechanism for. J. A. Gendron. No. 928,911; July 20; Sp. p. 4576; Gaz. vol. 144; p. 796.  
 Looms, Replenishment of filling in automatic. D. M. Hollins. No. 920,871; May 4; Sp. p. 1599; Gaz. vol. 142; p. 255.  
 Looms, Spooler for pile-fabric. F. A. Whitmore. No. 933,213; Sept. 7; Sp. p. 407; Gaz. vol. 146; p. 63.  
 Looms, Thin-place-detecting means for. H. L. Freeman. No. 935,099; Sept. 28; Sp. p. 4283; Gaz. vol. 146; p. 765.  
 Looms, Thin-place-detecting mechanism for. J. Belavance. No. 918,645; Apr. 20; Sp. p. 3488; Gaz. vol. 141; p. 624.  
 Looms, Thread-changing apparatus for. L. Jorrand. No. 936,324; Oct. 12; Sp. p. 1489; Gaz. vol. 147; p. 257.  
 Looms, Thread-parting mechanism for. W. H. Spencer and A. Hurst. No. 943,957; Dec. 21; Sp. p. 4135; Gaz. vol. 149; p. 717.  
 Looms, Tuft-yarn carrier for pile-fabric. C. C. Brinton. No. 942,999; Dec. 14; Sp. p. 2092; Gaz. vol. 149; p. 359.  
 Looms, Web-cutting mechanism for cane-. J. Tilp. No. 941,112; Nov. 23; Sp. p. 5882; Gaz. vol. 148; p. 991.  
 Looms, Weft-controlling mechanism for weaving-. J. Rostrom. No. 938,276; Oct. 26; Sp. p. 5594; Gaz. vol. 147; p. 956.  
 Looms, Weft-cutting mechanism for weft-replenishing. J. Gabler. No. 925,891; June 22; Sp. p. 5888; Gaz. vol. 143; p. 1017.  
 Looms, Weft-feeler for automatic weft-replenishing. W. R. Stitt. No. 922,539; May 25; Sp. p. 5032; Gaz. vol. 142; p. 893.  
 Looms, Weft-supplying mechanism for automatic weft-replenishing. E. S. Stimpson. No. 923,457; June 1; Sp. p. 778; Gaz. vol. 143; p. 115.  
 Looper-trimmer. W. J. Steere. No. 916,799; Mar. 30; Sp. p. 6343; Gaz. vol. 140; p. 1133.  
 Looping-machine. C. Holly. No. 936,898; Oct. 12; Sp. p. 2698; Gaz. vol. 147; p. 450.  
 Loss-of-head and rate-of-flow gage. M. M. Borden. No. 926,721; July 6; Sp. p. 2; Gaz. vol. 144; p. 3.  
 Loss-preventing device. M. T. Fish. No. 939,487; Nov. 9; Sp. p. 2312; Gaz. vol. 148; p. 383.



*Alphabetical list of inventions—Continued.*

- Loss-preventing device. W. K. Wolf. No. 942,695; Dec. 7; Sp. p. 1368; Gaz. vol. 149; p. 225.  
 Lotion. G. Pucciarelli. No. 928,539; July 20; Sp. p. 3822; Gaz. vol. 144; p. 670.  
 Low-water alarm. F. D. Goodnough. No. 928,650; July 20; Sp. p. 4059; Gaz. vol. 144; p. 707.  
 Lubricant. J. W. Watkins. No. 939,646; Nov. 9; Sp. p. 2653; Gaz. vol. 148; p. 439.  
 Lubricant-cups, Cap for. G. W. Bowen. No. 919,285; Apr. 20; Sp. p. 4974; Gaz. vol. 141; p. 834.  
 Lubricant-distributor. N. McKee. No. 918,892; Apr. 20; Sp. p. 4030; Gaz. vol. 141; p. 707.  
 Lubricant-filling device. C. E. Williams. No. 934,254; Sept. 14; Sp. p. 2615; Gaz. vol. 146; p. 432.  
 Lubricant-holder. H. A. MacClymont. No. 937,682; Oct. 19; Sp. p. 4325; Gaz. vol. 147; p. 737.  
 Lubricating apparatus. M. J. Maloney. No. 911,418; Feb. 2; Sp. p. 766; Gaz. vol. 139; p. 133.  
 Lubricating apparatus. F. T. Talcott. No. 918,392; Apr. 13; Sp. p. 2897; Gaz. vol. 141; p. 511.  
 Lubricating apparatus. H. E. Jordan. No. 937,243; Oct. 19; Sp. p. 3426; Gaz. vol. 147; p. 592.  
 Lubricating compounds, Manufacture of. J. E. Gill. No. 932,855; Aug. 31; Sp. p. 6822; Gaz. vol. 145; p. 1171.  
 Lubricating-cup for steam-chests, &c. T. Carrick. No. 921,201; May 11; Sp. p. 2259; Gaz. vol. 142; p. 397.  
 Lubricating device. J. M. Tibbs. No. 924,948; June 15; Sp. p. 3969; Gaz. vol. 143; p. 678.  
 Lubricating device. F. R. Paine. No. 939,301; Nov. 9; Sp. p. 1883; Gaz. vol. 148; p. 321.  
 Lubricating device. R. F. O. G. van Zoelen. No. 943,959; Dec. 21; Sp. p. 4139; Gaz. vol. 149; p. 717.  
 Lubricating draper-roller. J. D. Jones. No. 942,728; Dec. 7; Sp. p. 1443; Gaz. vol. 149; p. 236.  
 Lubricating means. H. S. Greene. No. 918,312; Apr. 13; Sp. p. 2743; Gaz. vol. 141; p. 486.  
 Lubricating means. W. H. Dupré. No. 927,337; July 6; Sp. p. 1278; Gaz. vol. 144; p. 211.  
 Lubricating system. H. N. Link. No. 921,129; May 11; Sp. p. 2110; Gaz. vol. 142; p. 372.  
 Lubricating-washer. C. E. Palmer. No. 924,265; June 8; Sp. p. 2563; Gaz. vol. 143; p. 417.  
 Lubricator: See Automatic lubricator; Axle-lubricator; Car-axle lubricator; Force-feed lubricator; Graphite lubricator; Journal-lubricator; Journal-box lubricator; Machinery lubricator; Saw-lubricator; Saw-blade lubricator; Shaft or journal lubricator; Slide-bearing lubricator; Tool-lubricator; Valve-stem lubricator.  
 Lubricator. L. T. Dery. No. 909,162; Jan. 12; Sp. p. 1509; Gaz. vol. 138; p. 273.  
 Lubricator. J. C. Hill. No. 910,060; Jan. 19; Sp. p. 3275; Gaz. vol. 138; p. 604.  
 Lubricator. C. D. Paine. No. 910,307; Jan. 19; Sp. p. 3833; Gaz. vol. 138; p. 690.  
 Lubricator. C. D. Schroeder. No. 910,731; Jan. 26; Sp. p. 4702; Gaz. vol. 138; p. 855.  
 Lubricator. E. McCoy. No. 911,669; Feb. 9; Sp. p. 1287; Gaz. vol. 139; p. 241.  
 Lubricator. W. E. Parr. No. 913,553; Feb. 23; Sp. p. 5239; Gaz. vol. 139; p. 928.  
 Lubricator. L. Schriever. No. 914,757; Mar. 9; Sp. p. 2330; Gaz. vol. 140; p. 390.  
 Lubricator. W. Clothworthy. No. 915,937; Mar. 23; Sp. p. 4680; Gaz. vol. 140; p. 831.  
 Lubricator. B. R. Hunter. No. 917,608; Apr. 6; Sp. p. 1259; Gaz. vol. 141; p. 222.  
 Lubricator. G. W. Nütz. No. 920,629; May 4; Sp. p. 1082; Gaz. vol. 142; p. 176.  
 Lubricator. C. W. Manzel. No. 920,769; May 4; Sp. p. 1357; Gaz. vol. 142; p. 221.  
 Lubricator. A. A. Webster. No. 922,223; May 18; Sp. p. 4393; Gaz. vol. 142; p. 762.  
 Lubricator. J. Sherry. No. 924,588; June 8; Sp. p. 3196; Gaz. vol. 143; p. 523.  
 Lubricator. W. L. Newbaker. No. 928,686; July 20; Sp. p. 4130; Gaz. vol. 144; p. 719.  
 Lubricator. H. A. Swanson. No. 928,819; July 20; Sp. p. 4372; Gaz. vol. 144; p. 762.  
 Lubricator. T. W. Smith. No. 929,039; July 27; Sp. p. 4830; Gaz. vol. 144; p. 865.  
 Lubricator. J. A. Fretwell. No. 929,576; July 27; Sp. p. 5919; Gaz. vol. 144; p. 1040.  
 Lubricator. G. B. Essex. No. 930,462; Aug. 10; Sp. p. 1688; Gaz. vol. 145; p. 305.  
 Lubricator. F. S. Miller. No. 932,045; Aug. 24; Sp. p. 5163; Gaz. vol. 145; p. 881.  
 Lubricator. C. E. Graebing. No. 934,722; Sept. 21; Sp. p. 3519; Gaz. vol. 146; p. 613.  
 Lubricator. G. E. Witt. No. 934,953; Sept. 21; Sp. p. 3974; Gaz. vol. 146; p. 690.  
 Lubricator. J. Kelly. No. 935,260; Sept. 28; Sp. p. 4592; Gaz. vol. 146; p. 817.  
 Lubricator. W. O. Turner. No. 935,948; Oct. 5; Sp. p. 742; Gaz. vol. 147; p. 110.  
 Lubricator. C. A. Dotson. No. 938,415; Oct. 26; Sp. p. 5925; Gaz. vol. 147; p. 1005.  
 Lubricator. J. A. Martin. No. 940,339; Nov. 16; Sp. p. 4205; Gaz. vol. 148; p. 708.  
 Lubricator. R. C. Agner. No. 940,572; Nov. 16; Sp. p. 4728; Gaz. vol. 148; p. 787.  
 Lubricator for hand saws. C. E. Lowe. No. 915,033; Mar. 9; Sp. p. 2827; Gaz. vol. 140; p. 479.  
 Luggage-carrier. L. E. Draper. No. 927,956; July 13; Sp. p. 2627; Gaz. vol. 144; p. 446.  
 Luggage-carrier. T. W. Tschiffely. No. 942,526; Dec. 7; Sp. p. 1046; Gaz. vol. 149; p. 169.  
 Lumber, Compound. C. C. Mengel. No. 934,927; Sept. 21; Sp. p. 3922; Gaz. vol. 146; p. 680.  
 Lumber-dolly. A. G. Lott. No. 929,680; Aug. 3; Sp. p. 77; Gaz. vol. 145; p. 15.  
 Lumber-drier. H. G. Cady. No. 933,744; Sept. 14; Sp. p. 1613; Gaz. vol. 146; p. 265.  
 Lumber-handling apparatus. C. E. Cleveland. No. 922,854; May 25; Sp. p. 5681; Gaz. vol. 142; p. 995.  
 Lumber-joining machines, Carrier mechanism for. B. A. Linderman. No. 929,232; July 27; Sp. p. 5235; Gaz. vol. 144; p. 927.  
 Lumber-joining machines, Edging attachment for. B. A. Linderman. No. 944,489; Dec. 28; Sp. p. 5291; Gaz. vol. 149; p. 923.  
 Lumber-loader. W. C. Starr. No. 937,192; Oct. 19; Sp. p. 3312; Gaz. vol. 147; p. 576.  
 Lumber-loading mechanism. F. Pearson. No. 937,954; Oct. 26; Sp. p. 4904; Gaz. vol. 147; p. 847.  
 Lumber-rule. J. N. Bryant and J. B. McDonald. No. 914,635; Mar. 9; Sp. p. 2063; Gaz. vol. 140; p. 350.  
 Lumber-stacker. H. W. Clark. No. 944,946; Dec. 28; Sp. p. 6269; Gaz. vol. 149; p. 1077.  
 Lunch-box. P. J. Bird. No. 925,447; June 22; Sp. p. 4940; Gaz. vol. 143; p. 872.  
 Lunch-box. Canteen. A. A. Low. No. 930,202; Aug. 3; Sp. p. 1203; Gaz. vol. 145; p. 197.  
 Lunch-box, Store-heat. A. Carter. No. 934,041; Sept. 14; Sp. p. 2175; Gaz. vol. 146; p. 360.  
 Lungs, Apparatus for developing the. V. J. Schaeffer and J. M. Dempsey. No. 940,735; Nov. 23; Sp. p. 5083; Gaz. vol. 148; p. 867.  
 Lymph, Making preventive and curative. S. Kraft. No. 941,423; Nov. 30; Sp. p. 5583; Gaz. vol. 148; p. 1116.  
 Macaroni and the like, Machine for making. J. Rivera. No. 928,796; July 20; Sp. p. 4336; Gaz. vol. 144; p. 755.  
 Macaroni, Drying. K. Gammel. No. 918,436; Apr. 13; Sp. p. 2989; Gaz. vol. 141; p. 526.  
 Machine-knives and making the same, Compositestock for. F. Searle. No. 925,661; June 22; Sp. p. 5366; Gaz. vol. 143; p. 940.  
 Machine part having bearing-sleeve. J. T. Uebbing. No. 918,399; Apr. 13; Sp. p. 2911; Gaz. vol. 141; p. 513.  
 Machine-tool holder. M. S. Cumner and W. Ostrand. No. 910,647; Jan. 26; Sp. p. 4556; Gaz. vol. 138; p. 829.  
 Machinery lubricator, Steam-. G. W. Edwards. No. 922,113; May 18; Sp. p. 4153; Gaz. vol. 142; p. 726.  
 Macpelah or resting place for the dead. L. Barg. No. 920,812; May 4; Sp. p. 1457; Gaz. vol. 142; p. 236.  
 Magazine. F. Smithson. No. 943,479; Dec. 14; Sp. p. 3103; Gaz. vol. 149; p. 523.  
 Magazine-pistol, Automatic. A. F. Trundle. No. 908,521; Jan. 5; Sp. p. 184; Gaz. vol. 138; p. 32.  
 Magnesia, Preparing concentrated hydrated. W. S. Morrison. No. 926,280; June 29; Sp. p. 6690; Gaz. vol. 143; p. 1180.  
 Magnesium carbonate, Producing. G. Sisson. No. 935,418; Sept. 28; Sp. p. 4910; Gaz. vol. 146; p. 867.  
 Magnesium, Electrolytic production of. G. O. Seward and F. von Kugelgen. No. 931,092; Aug. 17; Sp. p. 3093; Gaz. vol. 145; p. 542.  
 Magnesium, Production of. F. von Kugelgen and G. O. Seward. No. 935,796; Oct. 5; Sp. p. 404; Gaz. vol. 147; p. 60.  
 Magnesium salts and ammonia, Making. H. B. Hunter. No. 932,130; Aug. 24; Sp. p. 5328; Gaz. vol. 145; p. 909.  
 Magnet. H. Rutherford. No. 925,951; June 22; Sp. p. 5998; Gaz. vol. 143; p. 1036.  
 Magnet, Air or water blast. J. D. Hilliard, Jr., and C. E. Parsons. No. 923,653; June 1; Sp. p. 1203; Gaz. vol. 143; p. 185.  
 Magnet, Field-. B. A. Behrend. No. 918,499; Apr. 20; Sp. p. 3138; Gaz. vol. 141; p. 576.  
 Magnet, Lifting-. A. C. Eastwood. No. 927,513; July 13; Sp. p. 1669; Gaz. vol. 144; p. 298.  
 Magnet, Lifting-. A. C. Eastwood. No. 928,510; July 20; Sp. p. 3757; Gaz. vol. 144; p. 660.  
 Magnet or the like, Field-. C. P. Bary. No. 910,892; Jan. 26; Sp. p. 5027; Gaz. vol. 138; p. 906.  
 Magnet, Polarized. E. A. Burlingame. No. 921,794; May 18; Sp. p. 3498; Gaz. vol. 142; p. 622.  
 Magnet, Polarized. E. A. Burlingame. No. 928,582; July 20; Sp. p. 3916; Gaz. vol. 144; p. 684.  
 Magnet structure, Revolving field-. B. A. Behrend. No. 918,498; Apr. 20; Sp. p. 3136; Gaz. vol. 141; p. 575.  
 Magnet winding for dynamo-electric machines, Field-. F. R. Kunkel. No. 926,262; June 29; Sp. p. 6659; Gaz. vol. 143; p. 1175.  
 Magnetic arc-extinguishing means. O. A. Sandborgh. No. 934,573; Sept. 21; Sp. p. 3215; Gaz. vol. 146; p. 561.  
 Magnetic detector. J. Murgas. No. 930,780; Aug. 10; Sp. p. 2375; Gaz. vol. 145; p. 411.  
 Magnetic motor. W. H. Von Tish. No. 926,369; June 29; Sp. p. 6868; Gaz. vol. 143; p. 1208.  
 Magnetic separation. W. B. Moore. No. 922,800; May 25; Sp. p. 5562; Gaz. vol. 142; p. 977.  
 Magnetic separator. C. M. Green. No. 910,664; Jan. 26; Sp. p. 4584; Gaz. vol. 138; p. 833.  
 Magnetic separator. W. B. Moore. No. 940,266; Nov. 16; Sp. p. 4017; Gaz. vol. 148; p. 684.  
 Magnetic-wave detector. J. Murgas. No. 917,104; Apr. 6; Sp. p. 287; Gaz. vol. 141; p. 52.  
 Magnetic wedge. C. Robinson. No. 917,138; Apr. 6; Sp. p. 372; Gaz. vol. 141; p. 64.  
 Magneto-generator. R. H. Hassler. No. 939,910; Nov. 9; Sp. p. 3210; Gaz. vol. 148; p. 529.  
 Magneto-motor. C. S. Kershner. No. 943,420; Dec. 14; Sp. p. 2968; Gaz. vol. 149; p. 501.



*Alphabetical list of inventions—Continued.*

- Mail and newspaper box. J. M. Lentz. No. 931,696; Aug. 17; Sp. p. 4373; Gaz. vol. 145; p. 743.  
 Mail and parcel binder. A. M. Jayne. No. 911,820; Feb. 9; Sp. p. 1562; Gaz. vol. 139; p. 290.  
 Mail-bag. W. A. Carpenter. No. 928,106; July 13; Sp. p. 2897; Gaz. vol. 144; p. 494.  
 Mail-bag. B. Forehand. No. 931,853; Aug. 24; Sp. p. 4715; Gaz. vol. 145; p. 817.  
 Mail-bag catcher. G. B. Field. No. 908,458; Jan. 5; Sp. p. 49; Gaz. vol. 138; p. 11.  
 Mail-bag catcher. J. S. Peek. No. 909,659; Jan. 12; Sp. p. 2473; Gaz. vol. 138; p. 438.  
 Mail-bag catcher. O. O. Ayers. No. 915,652; Mar. 16; Sp. p. 4122; Gaz. vol. 140; p. 713.  
 Mail-bag catcher. J. M. Carver. No. 917,922; Apr. 13; Sp. p. 1945; Gaz. vol. 141; p. 352.  
 Mail-bag catcher. A. C. Ergler. No. 919,561; Apr. 27; Sp. p. 5599; Gaz. vol. 141; p. 962.  
 Mail-bag catcher. S. C. Hovey. No. 921,113; May 11; Sp. p. 2079; Gaz. vol. 142; p. 366.  
 Mail-bag catcher. J. S. Shepherd. No. 922,203; May 18; Sp. p. 4342; Gaz. vol. 142; p. 755.  
 Mail-bag catcher. F. Nicola. No. 929,472; July 27; Sp. p. 5733; Gaz. vol. 144; p. 1006.  
 Mail-bag catcher. H. C. Goldsmith. No. 931,921; Aug. 24; Sp. p. 4888; Gaz. vol. 145; p. 838.  
 Mail-bag catcher. D. W. Council. No. 932,251; Aug. 24; Sp. p. 5569; Gaz. vol. 145; p. 948.  
 Mail-bag catcher. W. Wever. No. 940,102; Nov. 16; Sp. p. 3680; Gaz. vol. 148; p. 627.  
 Mail-bag catcher and deliverer. L. W. Melchior. No. 909,007; Jan. 5; Sp. p. 1182; Gaz. vol. 138; p. 188.  
 Mail-bag catcher and deliverer. J. H. Knight. No. 909,611; Jan. 12; Sp. p. 2375; Gaz. vol. 138; p. 422.  
 Mail-bag catcher and deliverer. E. Stiedinger. No. 914,198; Mar. 2; Sp. p. 1167; Gaz. vol. 140; p. 182.  
 Mail-bag catcher and deliverer. H. Garner. No. 915,092; Mar. 16; Sp. p. 2964; Gaz. vol. 140; p. 525.  
 Mail-bag catcher and deliverer. L. B. Johnston. No. 917,307; Apr. 6; Sp. p. 723; Gaz. vol. 141; p. 123.  
 Mail-bag catcher and deliverer. R. R. Hedgpath. No. 920,568; May 4; Sp. p. 964; Gaz. vol. 142; p. 157.  
 Mail-bag catcher and deliverer. M. Nugent. No. 920,628; May 4; Sp. p. 1080; Gaz. vol. 142; p. 175.  
 Mail-bag catcher and deliverer. B. F. Troup. No. 920,695; May 4; Sp. p. 1224; Gaz. vol. 142; p. 197.  
 Mail-bag catcher and deliverer. J. V. Thompson. No. 921,567; May 11; Sp. p. 3014; Gaz. vol. 142; p. 517.  
 Mail-bag catcher and deliverer. W. H., A. P., and A. Moore. No. 940,887; Nov. 23; Sp. p. 5406; Gaz. vol. 148; p. 916.  
 Mail-bag catcher and deliverer. Combined. J. E. Diefenderfer. No. 926,928; July 6; Sp. p. 462; Gaz. vol. 144; p. 75.  
 Mail-bag catcher or transferer. G. J. Meier. No. 919,911; Apr. 27; Sp. p. 6324; Gaz. vol. 141; p. 1080.  
 Mail-bag catching and delivering apparatus. H. J. Amick. No. 909,048; Jan. 5; Sp. p. 1253; Gaz. vol. 138; p. 201.  
 Mail-bag catching and delivering apparatus. C. A. Sipe. No. 912,907; Feb. 16; Sp. p. 3894; Gaz. vol. 139; p. 686.  
 Mail-bag catching and delivering apparatus. O. and L. W. Channell. No. 921,084; May 11; Sp. p. 2023; Gaz. vol. 142; p. 356.  
 Mail-bag catching and delivering apparatus. R. H. Hudson. No. 930,964; Aug. 10; Sp. p. 2775; Gaz. vol. 145; p. 471.  
 Mail-bag catching and delivering apparatus. H. R. Ladd. No. 931,436; Aug. 17; Sp. p. 3339; Gaz. vol. 145; p. 662.  
 Mail-bag catching and delivering apparatus. T. F. Curtis. No. 938,985; Nov. 2; Sp. p. 1157; Gaz. vol. 148; p. 185.  
 Mail-bag catching and delivering apparatus. H. J. Hansen. No. 943,071; Dec. 14; Sp. p. 2266; Gaz. vol. 149; p. 384.  
 Mail-bag catching and delivering apparatus. Automatic. B. K. and A. J. Kauffman. No. 920,580; May 4; Sp. p. 983; Gaz. vol. 142; p. 160.  
 Mail-bag catching and delivering device. J. J. Cruise. No. 923,502; July 20; Sp. p. 3735; Gaz. vol. 144; p. 657.  
 Mail-bag catching and delivering mechanism. W. C. Miller. No. 923,872; June 8; Sp. p. 1732; Gaz. vol. 143; p. 289.  
 Mail-bag crane. G. J. Ford. No. 923,117; July 13; Sp. p. 2913; Gaz. vol. 144; p. 498.  
 Mail-bag crane. J. Edman. No. 933,896; Sept. 14; Sp. p. 1903; Gaz. vol. 146; p. 314.  
 Mail-bag crane. A. H. Stone. No. 936,489; Oct. 12; Sp. p. 1888; Gaz. vol. 147; p. 312.  
 Mail-bag crane and catcher. J. G. Fleenor, Jr. No. 935,596; Sept. 28; Sp. p. 5280; Gaz. vol. 146; p. 927.  
 Mail-bag deliverer. B. F. Troup. No. 936,189; Oct. 5; Sp. p. 1234; Gaz. vol. 147; p. 186.  
 Mail-bag deliverer. S. B. Colbert. No. 939,806; Nov. 9; Sp. p. 3000; Gaz. vol. 148; p. 494.  
 Mail-bag deliverer. H. J. Sanderson. No. 940,618; Nov. 16; Sp. p. 4807; Gaz. vol. 148; p. 801.  
 Mail-bag deliverer. J. H. Sweeney. No. 944,222; Dec. 21; Sp. p. 4682; Gaz. vol. 149; p. 802.  
 Mail-bag deliverer and catcher. O. J. Seymour. No. 932,337; Aug. 24; Sp. p. 5728; Gaz. vol. 145; p. 977.  
 Mail-bag deliverer and receiver. D. W. Millsaps. No. 914,442; Mar. 9; Sp. p. 1669; Gaz. vol. 140; p. 285.  
 Mail-bag delivering and receiving apparatus. C. Dellis. No. 909,371; Jan. 12; Sp. p. 1905; Gaz. vol. 138; p. 340.  
 Mail-bag delivering and receiving apparatus. O. Gunther. No. 914,039; Mar. 2; Sp. p. 836; Gaz. vol. 140; p. 128.  
 Mail-bag delivering and receiving apparatus. I. V. Fister. No. 918,136; Apr. 13; Sp. p. 2391; Gaz. vol. 141; p. 428.  
 Mail-bag delivering and receiving apparatus. W. L. Thompson. No. 931,524; Aug. 17; Sp. p. 3994; Gaz. vol. 145; p. 688.  
 Mail-bag delivering apparatus. E. H. Houghland. No. 915,439; Mar. 16; Sp. p. 3674; Gaz. vol. 140; p. 639.  
 Mail-bag delivering apparatus. H. J. Hedrick. No. 943,876; Dec. 21; Sp. p. 3956; Gaz. vol. 149; p. 687.  
 Mail-bag-delivery apparatus. W. H. Van Fossen. No. 916,902; Mar. 30; Sp. p. 6543; Gaz. vol. 140; p. 1168.  
 Mail-bag-delivery apparatus. G. A. Mains. No. 922,707; May 25; Sp. p. 5377; Gaz. vol. 142; p. 948.  
 Mail-bag-delivery apparatus. J. G. Fleenor, Jr. No. 935,595; Sept. 28; Sp. p. 5283; Gaz. vol. 146; p. 927.  
 Mail-bag-delivery apparatus for cars. L. J. Evans. No. 913,715; Mar. 2; Sp. p. 80; Gaz. vol. 140; p. 15.  
 Mail-bag despatcher. W. Butler. No. 923,623; June 1; Sp. p. 1145; Gaz. vol. 143; p. 175.  
 Mail-bag-exchange apparatus. C. W. Burke, R. J. Rodgers, and J. D. Perkins. No. 922,665; May 25; Sp. p. 5288; Gaz. vol. 142; p. 935.  
 Mail-bag handler. J. L. Adam. No. 926,228; June 29; Sp. p. 6602; Gaz. vol. 143; p. 1165.  
 Mail-bag handler. J. L. Adam. No. 944,651; Dec. 28; Sp. p. 5647; Gaz. vol. 149; p. 879.  
 Mail-bag handler. J. L. Adam. No. 944,711; Dec. 28; Sp. p. 5775; Gaz. vol. 149; p. 999.  
 Mail-bag-handling apparatus. H. N. Pedersen and F. M. Christensen. No. 942,278; Dec. 7; Sp. p. 535; Gaz. vol. 149; p. 84.  
 Mail-bag-handling device. F. E. Herbert. No. 923,174; June 1; Sp. p. 119; Gaz. vol. 143; p. 19.  
 Mail-bag hanger. E. M. Corthell. No. 935,894; Oct. 5; Sp. p. 630; Gaz. vol. 147; p. 91.  
 Mail-bag holder. E. S. Shipman. No. 932,912; Aug. 31; Sp. p. 6919; Gaz. vol. 145; p. 1189.  
 Mail-bag lock. G. I. Willett. No. 935,287; Sept. 28; Sp. p. 4649; Gaz. vol. 146; p. 826.  
 Mail-bag-pick-up mechanism. B. R. Simmons. No. 933,273; Sept. 7; Sp. p. 560; Gaz. vol. 146; p. 85.  
 Mail-bag receiving and delivering apparatus. C. C. Gardner. No. 921,226; May 11; Sp. p. 2313; Gaz. vol. 142; p. 406.  
 Mail-bag receiving and delivering apparatus. F. W. Starr. No. 929,891; Aug. 3; Sp. p. 581; Gaz. vol. 145; p. 91.  
 Mail-bag receiving and delivering apparatus. J. E. Reser. No. 934,356; Sept. 14; Sp. p. 2794; Gaz. vol. 146; p. 465.  
 Mail-bag receiving and delivering device. H. H. Behnke. No. 933,951; Sept. 14; Sp. p. 2010; Gaz. vol. 146; p. 331.  
 Mail-bag receiving and delivering mechanism. W. H. Jones. No. 918,863; Apr. 20; Sp. p. 3963; Gaz. vol. 141; p. 697.  
 Mail-bag-transfer device. J. L. Adam. No. 926,226; June 29; Sp. p. 6594; Gaz. vol. 143; p. 1165.  
 Mail-bags, &c., Apparatus for catching and delivering. B. L. Toquet. No. 910,972; Jan. 26; Sp. p. 5170; Gaz. vol. 138; p. 932.  
 Mail-bags from trains and the like, Device for delivering and receiving. S. Jarross. No. 921,254; May 11; Sp. p. 2367; Gaz. vol. 142; p. 416.  
 Mail-bags to moving trains, Apparatus for the delivery of. J. B. Driscoll. No. 934,293; Sept. 14; Sp. p. 2681; Gaz. vol. 146; p. 446.  
 Mail-box. A. F. Ripple. No. 908,500; Jan. 5; Sp. p. 141; Gaz. vol. 138; p. 25.  
 Mail-box. M. Brown. No. 908,543; Jan. 5; Sp. p. 234; Gaz. vol. 138; p. 40.  
 Mail-box. A. A. Kellogg. No. 910,688; Jan. 26; Sp. p. 4619; Gaz. vol. 138; p. 841.  
 Mail-box. O. R. Hanchett. No. 919,718; Apr. 27; Sp. p. 5914; Gaz. vol. 141; p. 1015.  
 Mail-box. E. M. Shipp. No. 920,194; May 4; Sp. p. 205; Gaz. vol. 142; p. 32.  
 Mail-box. W. H. Johnson. No. 922,147; May 13; Sp. p. 4218; Gaz. vol. 142; p. 737.  
 Mail-box. H. F. Davis. No. 923,518; June 8; Sp. p. 1634; Gaz. vol. 143; p. 270.  
 Mail-box. N. R. Sheets and W. E. Barlow. No. 926,613; June 29; Sp. p. 7316; Gaz. vol. 143; p. 1291.  
 Mail-box. E. S. Annable. No. 929,369; July 27; Sp. p. 5565; Gaz. vol. 144; p. 976.  
 Mail-box. F. C. Bates. No. 930,922; Aug. 10; Sp. p. 2680; Gaz. vol. 145; p. 459.  
 Mail-box. E. W. Easterling. No. 932,453; Aug. 31; Sp. p. 5955; Gaz. vol. 145; p. 1038.  
 Mail-box. C. H. Holton. No. 934,173; Sept. 14; Sp. p. 2461; Gaz. vol. 146; p. 405.  
 Mail-box. F. H. Sleh and F. J. Lowe. No. 935,934; Oct. 5; Sp. p. 717; Gaz. vol. 147; p. 105.  
 Mail-box. W. Broberg. No. 936,215; Oct. 5; Sp. p. 1274; Gaz. vol. 147; p. 194.  
 Mail-box and letter-carrier's pouch. L. Vezzi. No. 934,245; Sept. 14; Sp. p. 2594; Gaz. vol. 146; p. 429.  
 Mail-box coin-holder, Rural-. G. E. Wemhoff. No. 935,076; Sept. 28; Sp. p. 4231; Gaz. vol. 146; p. 757.  
 Mail-box collection-indicator. W. W. Day. No. 935,191; Sept. 28; Sp. p. 4462; Gaz. vol. 146; p. 794.  
 Mail-box-fastening device. O. H. Smith. No. 918,385; Apr. 13; Sp. p. 2884; Gaz. vol. 141; p. 509.  
 Mail-box flag. F. O. Hess. No. 932,547; Aug. 31; Sp. p. 6170; Gaz. vol. 145; p. 1070.  
 Mail-box holder. J. H. Fisher. No. 936,527; Oct. 12; Sp. p. 1965; Gaz. vol. 147; p. 324.  
 Mail-box indicator, Rural-. R. S. Jones. No. 932,287; Aug. 24; Sp. p. 5640; Gaz. vol. 145; p. 962.  
 Mail-box, Letter and package. C. Ohlson. No. 922,181; May 18; Sp. p. 4284; Gaz. vol. 142; p. 747.  
 Mail-box lock and collection-indicator, Combination. N. E. Crow. No. 934,959; Sept. 21; Sp. p. 3987; Gaz. vol. 146; p. 692.  
 Mail-box money-holder. F. Spenner. No. 919,083; Apr. 20; Sp. p. 4395; Gaz. vol. 141; p. 768.  
 Mail-box penny-collector. W. G. Campbell. No. 916,102; Mar. 23; Sp. p. 4996; Gaz. vol. 140; p. 885.



*Alphabetical list of inventions—Continued.*

- Mail-box, Portable rural. E. Graham. No. 917,428; Apr. 6; Sp. p. 939; Gaz. vol. 141; p. 163.  
 Mail-box, Rural. A. C. Baumwart. No. 911,935; Feb. 9; Sp. p. 1779; Gaz. vol. 139; p. 327.  
 Mail-box, Rural. C. F. Farrar. No. 924,651; June 15; Sp. p. 3351; Gaz. vol. 143; p. 577.  
 Mail-box signal. H. C. Fletcher. No. 915,837; Mar. 23; Sp. p. 4503; Gaz. vol. 140; p. 799.  
 Mail-box signal, Rural-. W. E. Hart. No. 927,652; July 13; Sp. p. 1979; Gaz. vol. 144; p. 345.  
 Mail-box support. H. Skreberg. No. 928,075; July 13; Sp. p. 2846; Gaz. vol. 144; p. 485.  
 Mail-box support. J. M. Watson. No. 935,715; Oct. 5; Sp. p. 195; Gaz. vol. 147; p. 31.  
 Mail-box support. A. P. Kersey. No. 942,859; Dec. 7; Sp. p. 1722; Gaz. vol. 149; p. 279.  
 Mail-car fork. W. H. Lefevre. No. 917,775; Apr. 13; Sp. p. 1633; Gaz. vol. 141; p. 303.  
 Mail-carrier. A. W. Riggs. No. 912,979; Feb. 16; Sp. p. 4038; Gaz. vol. 139; p. 708.  
 Mail-carrier. M. C. Cain. No. 927,325; July 6; Sp. p. 1260; Gaz. vol. 144; p. 208.  
 Mail-carrier. J. B. Cain. No. 929,120; July 27; Sp. p. 5007; Gaz. vol. 144; p. 891.  
 Mail-carrier. M. Mickelson. No. 934,980; Sept. 21; Sp. p. 4034; Gaz. vol. 146; p. 700.  
 Mail-carrier. W. T. Buck and G. C. Willis. No. 943,136; Dec. 14; Sp. p. 2390; Gaz. vol. 149; p. 407.  
 Mail-carrier, Automatic. P. M. Hacking and A. H. Bastian. No. 932,700; Aug. 31; Sp. p. 6511; Gaz. vol. 145; p. 1121.  
 Mail carrier, Rural-. G. B. Clark. No. 927,489; July 13; Sp. p. 1611; Gaz. vol. 144; p. 290.  
 Mail-carrier support. A. A. Maurer. No. 915,102; Mar. 16; Sp. p. 2995; Gaz. vol. 140; p. 529.  
 Mail-carrying apparatus. L. W. Westcott. No. 924,206; June 8; Sp. p. 2439; Gaz. vol. 143; p. 397.  
 Mail-cart. V. C. Koons. No. 923,278; June 1; Sp. p. 391; Gaz. vol. 143; p. 55.  
 Mail-catcher. H. C. Wehling. No. 909,042; Jan. 5; Sp. p. 1239; Gaz. vol. 138; p. 199.  
 Mail-catcher. W. Sears. No. 910,963; Jan. 26; Sp. p. 5155; Gaz. vol. 138; p. 929.  
 Mail-catcher. J. B. Ramsey and J. West. No. 911,760; Feb. 9; Sp. p. 1453; Gaz. vol. 139; p. 271.  
 Mail-catcher. L. Palmer. No. 920,385; May 4; Sp. p. 604; Gaz. vol. 142; p. 96.  
 Mail-catcher. J. C. Adams. No. 932,085; Aug. 24; Sp. p. 5238; Gaz. vol. 145; p. 893.  
 Mail-catcher. B. A. Ballinger. No. 937,138; Oct. 19; Sp. p. 3194; Gaz. vol. 147; p. 559.  
 Mail-catcher. A. M. Bridgewater. No. 943,336; Dec. 14; Sp. p. 2804; Gaz. vol. 149; p. 473.  
 Mail-catcher. S. S. McKeand. No. 944,901; Dec. 28; Sp. p. 6180; Gaz. vol. 149; p. 1064.  
 Mail catcher and deliverer, Railway. J. H. Miller. No. 917,338; Apr. 6; Sp. p. 782; Gaz. vol. 141; p. 133.  
 Mail catcher and deliverer, Railway. W. T. Seebie. No. 939,557; Nov. 9; Sp. p. 2449; Gaz. vol. 148; p. 406.  
 Mail-catcher attachment. R. W. Crawford, Jr., and R. H. Beck. No. 914,802; Mar. 9; Sp. p. 2413; Gaz. vol. 140; p. 405.  
 Mail-catcher, Railway. N. H. Campbell. No. 942,055; Dec. 7; Sp. p. 27; Gaz. vol. 149; p. 6.  
 Mail catching and delivering apparatus. A. E. and F. C. Snyder and J. P. Gaffney. No. 908,898; Jan. 5; Sp. p. 963; Gaz. vol. 138; p. 153.  
 Mail catching and delivering apparatus. C. E. Harrell. No. 918,673; Apr. 20; Sp. p. 3555; Gaz. vol. 141; p. 633.  
 Mail catching and delivering apparatus. J. Wood. No. 925,618; June 22; Sp. p. 5276; Gaz. vol. 143; p. 927.  
 Mail catching and delivering apparatus. P. J. Haney and J. H. Mortimer. No. 930,175; Aug. 3; Sp. p. 1163; Gaz. vol. 145; p. 189.  
 Mail catching and delivering device for railways. W. M. Moloney. No. 940,180; Nov. 16; Sp. p. 3842; Gaz. vol. 148; p. 652.  
 Mail catching and transferring apparatus. F. Blankenberger. No. 928,735; July 20; Sp. p. 4220; Gaz. vol. 144; p. 735.  
 Mail-catching device. T. Neel, W. E. Williams, and F. W. Owsney. No. 917,108; Apr. 6; Sp. p. 295; Gaz. vol. 141; p. 54.  
 Mail-chute. L. Ehrlich. No. 913,111; Feb. 23; Sp. p. 4301; Gaz. vol. 139; p. 779.  
 Mail-chute. L. Ehrlich. No. 913,112; Feb. 23; Sp. p. 4307; Gaz. vol. 139; p. 780.  
 Mail-chute. L. Ehrlich. No. 913,113; Feb. 23; Sp. p. 4309; Gaz. vol. 139; p. 780.  
 Mail-chute. L. Ehrlich. No. 913,114; Feb. 23; Sp. p. 4313; Gaz. vol. 139; p. 780.  
 Mail-chute. G. P. Burris. No. 930,936; Aug. 10; Sp. p. 2708; Gaz. vol. 145; p. 463.  
 Mail-chute. L. Ehrlich. No. 938,416; Oct. 26; Sp. p. 5927; Gaz. vol. 147; p. 1005.  
 Mail-chute. J. W. Cutler. No. 943,183; Dec. 14; Sp. p. 2474; Gaz. vol. 149; p. 420.  
 Mail-clip. J. Klein. No. 933,311; Sept. 7; Sp. p. 628; Gaz. vol. 146; p. 98.  
 Mail collecting and delivering apparatus. W. A. Loomis. No. 919,290; Apr. 20; Sp. p. 4983; Gaz. vol. 141; p. 835.  
 Mail collecting and delivering apparatus. E. A. Morse. No. 934,619; Sept. 21; Sp. p. 3321; Gaz. vol. 146; p. 578.  
 Mail collecting and delivering device. W. M. Corthell. No. 929,659; Aug. 3; Sp. p. 30; Gaz. vol. 145; p. 8.  
 Mail-crane. I. Light. No. 914,434; Mar. 9; Sp. p. 1657; Gaz. vol. 140; p. 285.  
 Mail-crane. H. J. Hedrick. No. 940,152; Nov. 16; Sp. p. 3774; Gaz. vol. 148; p. 643.  
 Mail crane, catcher, and deliverer, Combined. J. W. Peppie. No. 923,200; June 1; Sp. p. 168; Gaz. vol. 143; p. 28.  
 Mail-crane, Railway. J. C. Adams. No. 934,987; Sept. 28; Sp. p. 4048; Gaz. vol. 146; p. 727.  
 Mail delivering and collecting apparatus. W. M. Corthell. No. 923,336; June 1; Sp. p. 522; Gaz. vol. 143; p. 75.  
 Mail delivering and collecting system, Rural-. F. E. Been. No. 921,504; May 11; Sp. p. 2905; Gaz. vol. 142; p. 498.  
 Mail delivering and receiving apparatus. W. Kreamer. No. 923,977; June 8; Sp. p. 1937; Gaz. vol. 143; p. 322.  
 Mail delivering and receiving apparatus. W. O. Massie. No. 924,085; June 8; Sp. p. 2129; Gaz. vol. 143; p. 355.  
 Mail delivering and receiving device. J. A. Bossi. No. 939,793; Nov. 9; Sp. p. 2976; Gaz. vol. 148; p. 489.  
 Mail-delivering apparatus. D. B. Harmon. No. 914,658; Mar. 9; Sp. p. 2092; Gaz. vol. 140; p. 356.  
 Mail-delivering apparatus. J. H. Tudor. No. 914,899; Mar. 9; Sp. p. 2609; Gaz. vol. 140; p. 436.  
 Mail-delivering apparatus. J. H. Tudor. No. 929,348; July 27; Sp. p. 5530; Gaz. vol. 144; p. 969.  
 Mail-delivering apparatus. J. T. Howard. No. 939,259; Nov. 9; Sp. p. 1751; Gaz. vol. 148; p. 305.  
 Mail-delivering appliance for railway-trains. H. J. Hill. No. 939,688; Nov. 9; Sp. p. 2742; Gaz. vol. 148; p. 453.  
 Mail delivery and receiving device. H. C. Wehling. No. 908,632; Jan. 5; Sp. p. 421; Gaz. vol. 138; p. 68.  
 Mail-delivery apparatus. G. R. Godwin. No. 916,547; Mar. 30; Sp. p. 5893; Gaz. vol. 140; p. 1057.  
 Mail-delivery apparatus. G. L. Krinke. No. 919,438; Apr. 27; Sp. p. 5320; Gaz. vol. 141; p. 920.  
 Mail-delivery apparatus. S. Henry. No. 943,934; Dec. 21; Sp. p. 4093; Gaz. vol. 149; p. 709.  
 Mail-delivery car, Rural-. W. B. Yarberr. No. 940,107; Nov. 16; Sp. p. 3688; Gaz. vol. 148; p. 628.  
 Mail-delivery case. R. Brown. No. 943,766; Dec. 21; Sp. p. 3734; Gaz. vol. 149; p. 650.  
 Mail-distributing apparatus. W. Barry. No. 919,809; Apr. 27; Sp. p. 6083; Gaz. vol. 141; p. 1046.  
 Mail-distributing apparatus. W. Barry. No. 919,810; Apr. 27; Sp. p. 6106; Gaz. vol. 141; p. 1046.  
 Mail-exchange, Automotor. F. Mercer. No. 924,914; June 15; Sp. p. 3907; Gaz. vol. 143; p. 666.  
 Mail-exchanging device. H. Diefenbaugh. No. 942,717; Dec. 7; Sp. p. 1417; Gaz. vol. 149; p. 232.  
 Mail, express, and train orders, despatches, &c., Apparatus for effecting the interchange of. N. J. Nelson. No. 941,461; Nov. 30; Sp. p. 6657; Gaz. vol. 148; p. 1129.  
 Mail-handling apparatus. D. E. Coughlin. No. 912,996; Feb. 23; Sp. p. 4083; Gaz. vol. 139; p. 741.  
 Mail-handling apparatus, Pneumatic. T. M. Riggle and W. M. Baker. No. 926,078; June 22; Sp. p. 6259; Gaz. vol. 143; p. 1078.  
 Mail-handling apparatus, Railway. N. H. Campbell. No. 942,054; Dec. 7; Sp. p. 23; Gaz. vol. 149; p. 6.  
 Mail-holder. M. Cooper. No. 913,471; Feb. 23; Sp. p. 5039; Gaz. vol. 139; p. 900.  
 Mail-loader. T. B. Modlin, L. C. Schenimann, W. H. and A. Buhl, and H. Black. No. 925,493; June 22; Sp. p. 5017; Gaz. vol. 143; p. 885.  
 Mail-marking machine. F. C. Ielfield. No. 912,244; Feb. 9; Sp. p. 2469; Gaz. vol. 139; p. 426.  
 Mail-marking machine. W. Barry. No. 940,496; Nov. 16; Sp. p. 4556; Gaz. vol. 148; p. 762.  
 Mail-matter holder. F. R. Jackson. No. 920,148; May 4; Sp. p. 112; Gaz. vol. 142; p. 17.  
 Mail-package. B. L. Dotson. No. 941,237; Nov. 23; Sp. p. 6165; Gaz. vol. 148; p. 1034.  
 Mail-packeting machine. H. W. Reifenstein and C. J. Fox. No. 911,763; Feb. 9; Sp. p. 1457; Gaz. vol. 139; p. 272.  
 Mail-pouch. J. A. McCraw. No. 919,745; Apr. 27; Sp. p. 5964; Gaz. vol. 141; p. 1024.  
 Mail-pouch catcher. J. Anderson. No. 920,002; Apr. 27; Sp. p. 6496; Gaz. vol. 141; p. 1109.  
 Mail-pouch catching and delivering apparatus. J. A. Olbon. No. 939,738; Nov. 9; Sp. p. 2851; Gaz. vol. 148; p. 470.  
 Mail-pouch catching and delivering apparatus. J. L. Ware. No. 942,762; Dec. 7; Sp. p. 1505; Gaz. vol. 149; p. 247.  
 Mail-pouch catching and delivering means. I. Gurwitch and F. Rainey. No. 936,715; Oct. 12; Sp. p. 2348; Gaz. vol. 147; p. 389.  
 Mail-pouch catching and delivery device. G. M. Foley. No. 919,336; Apr. 27; Sp. p. 5105; Gaz. vol. 141; p. 885.  
 Mail-pouch-delivery apparatus. C. W. Broughton. No. 938,821; Nov. 2; Sp. p. 797; Gaz. vol. 148; p. 128.  
 Mail-pouch-exchanging apparatus. A. Monteith, C. W. Sheldon, and C. W. Smith. No. 911,057; Feb. 2; Sp. p. 66; Gaz. vol. 139; p. 13.  
 Mail-pouch-handling apparatus. W. A. Loomis. No. 913,665; Feb. 23; Sp. p. 5479; Gaz. vol. 139; p. 965.  
 Mail-pouch receiving and delivering apparatus for railway-cars, &c. C. W. Broughton. No. 931,263; Aug. 17; Sp. p. 3467; Gaz. vol. 145; p. 601.  
 Mail-pouch receiving and delivering apparatus for railway-cars and the like. C. W. Broughton. No. 944,716; Dec. 28; Sp. p. 5784; Gaz. vol. 149; p. 1001.  
 Mail-pouch receiving and delivery apparatus for railway-cars. C. W. Broughton. No. 920,723; May 4; Sp. p. 1291; Gaz. vol. 142; p. 207.  
 Mail-pouch-transferring apparatus. J. W. Peppie. No. 942,214; Dec. 7; Sp. p. 397; Gaz. vol. 149; p. 61.  
 Mail-rack. J. C. Kinsman. No. 925,347; June 15; Sp. p. 4736; Gaz. vol. 143; p. 808.  
 Mail receiver and deliverer. J. O. Anderson. No. 920,239; May 4; Sp. p. 294; Gaz. vol. 142; p. 48.

*Alphabetical list of inventions—Continued.*

- Mail receiver and deliverer for railway-trains. A. Matlak. No. 913,835; Mar. 2; Sp. p. 321; Gaz. vol. 140; p. 56.  
 Mail receiving and delivering apparatus. A. F. Wright. No. 908,532; Jan. 5; Sp. p. 211; Gaz. vol. 138; p. 36.  
 Mail receiving and delivering apparatus. A. D. Wack. No. 925,966; June 22; Sp. p. 6024; Gaz. vol. 143; p. 1041.  
 Mail receiving and delivering apparatus. T. J. Moody. No. 927,268; July 6; Sp. p. 1166; Gaz. vol. 144; p. 191.  
 Mail receiving and delivering apparatus, Automatic. H. H. Hunter. No. 922,701; May 25; Sp. p. 5366; Gaz. vol. 142; p. 945.  
 Mail receiving and delivering device, Automatic train and station. A. McArthur. No. 913,967; Mar. 2; Sp. p. 653; Gaz. vol. 140; p. 103.  
 Mail-receptacle. J. W. Cutler. No. 923,816; June 8; Sp. p. 1631; Gaz. vol. 143; p. 270.  
 Mail-sack letter-holder attachment. H. O. Richard. No. 916,018; Mar. 23; Sp. p. 4846; Gaz. vol. 140; p. 857.  
 Mail-slot alarm, Automatic. L. M. Robinson. No. 919,081; Apr. 20; Sp. p. 4393; Gaz. vol. 141; p. 767.  
 Mailing-box. G. Boden. No. 932,431; Aug. 31; Sp. p. 5916; Gaz. vol. 145; p. 1031.  
 Mailing card, Coin-. L. H. Clarke. No. 912,446; Feb. 16; Sp. p. 2932; Gaz. vol. 139; p. 532.  
 Mailing-machine. J. W. Orr. No. 931,639; Aug. 17; Sp. p. 4210; Gaz. vol. 145; p. 722.  
 Mailing-package. A. S. Pierson. No. 909,330; Jan. 12; Sp. p. 1828; Gaz. vol. 138; p. 328.  
 Mailing-tube. W. A. Seymour. No. 910,732; Jan. 26; Sp. p. 4703; Gaz. vol. 138; p. 855.  
 Mailing-tube. H. L. Gray. No. 919,715; Apr. 27; Sp. p. 5910; Gaz. vol. 141; p. 1014.  
 Mailing-tube. F. M. Ashley. No. 932,425; Aug. 31; Sp. p. 5906; Gaz. vol. 145; p. 1029.  
 Mailing-tube. V. Guertin. No. 940,146; Nov. 16; Sp. p. 3766; Gaz. vol. 148; p. 642.  
 Main and pipe cleaner. H. A. Greenan and F. O. Redford. No. 928,863; July 20; Sp. p. 4468; Gaz. vol. 144; p. 778.  
 Mainspring-winder. O. S. Evans. No. 932,257; Aug. 24; Sp. p. 5580; Gaz. vol. 145; p. 950.  
 Mainspring-winder. G. W. Bowers. No. 938,818; Nov. 2; Sp. p. 790; Gaz. vol. 148; p. 127.  
 Maize-ears, Utilization of. F. L. Stewart. No. 922,822; May 25; Sp. p. 5622; Gaz. vol. 142; p. 985.  
 Mallet. C. H. Bayley. No. 912,784; Feb. 16; Sp. p. 3691; Gaz. vol. 139; p. 649.  
 Malt-drying apparatus. W. H. Prinz. No. 937,011; Oct. 12; Sp. p. 2923; Gaz. vol. 147; p. 486.  
 Malt-drying apparatus. W. H. Prinz. No. 937,012; Oct. 12; Sp. p. 2927; Gaz. vol. 147; p. 487.  
 Malt-house. R. A. Kirkpatrick. No. 915,968; Mar. 23; Sp. p. 4749; Gaz. vol. 140; p. 841.  
 Malt-house. J. F. Dornfeld. No. 933,165; Sept. 7; Sp. p. 273; Gaz. vol. 146; p. 45.  
 Malt-kiln. J. Hornof. No. 929,435; July 27; Sp. p. 5666; Gaz. vol. 144; p. 995.  
 Malt-kiln. R. Roth. No. 936,947; Oct. 12; Sp. p. 2789; Gaz. vol. 147; p. 466.  
 Malt-kiln. O. H. Luebker. No. 940,172; Nov. 16; Sp. p. 3828; Gaz. vol. 148; p. 650.  
 Malt-making apparatus. G. J. Meyer. No. 936,011; Oct. 5; Sp. p. 835; Gaz. vol. 147; p. 131.  
 Malt-spreading-out apparatus. G. Weinbeer. No. 934,115; Sept. 14; Sp. p. 2341; Gaz. vol. 146; p. 384.  
 Malt-stirrer. M. Kondolf. No. 942,649; Dec. 7; Sp. p. 1289; Gaz. vol. 149; p. 210.  
 Malting apparatus. J. F. Dornfeld. No. 944,127; Dec. 21; Sp. p. 4507; Gaz. vol. 149; p. 774.  
 Maltese, Making. C. B. Duryea. No. 916,685; Mar. 30; Sp. p. 6145; Gaz. vol. 140; p. 1101.  
 Mangle. S. Moe. No. 909,312; Jan. 12; Sp. p. 1798; Gaz. vol. 138; p. 322.  
 Mangle. A. Musch. No. 912,872; Feb. 16; Sp. p. 3831; Gaz. vol. 139; p. 675.  
 Mangle. H. A. Hecker. No. 913,726; Mar. 2; Sp. p. 100; Gaz. vol. 140; p. 18.  
 Mangle. C. Stastka. No. 919,972; Apr. 27; Sp. p. 6435; Gaz. vol. 141; p. 1100.  
 Mangle. C. H. Mattice. No. 928,315; July 20; Sp. p. 3398; Gaz. vol. 144; p. 597.  
 Mangle. E. R. Seifert. No. 937,102; Oct. 19; Sp. p. 3111; Gaz. vol. 147; p. 547.  
 Mangles, Machine for feeding articles to. A. Burns. No. 916,839; Mar. 30; Sp. p. 6425; Gaz. vol. 140; p. 1148.  
 Mangling-roller. F. W. Lauterbach. No. 922,488; May 25; Sp. p. 4915; Gaz. vol. 142; p. 876.  
 Manhole-closure. C. C. Puffer. No. 939,628; Nov. 9; Sp. p. 2616; Gaz. vol. 148; p. 431.  
 Manhole-cover-plate. E. Oldman. No. 941,531; Nov. 30; Sp. p. 6800; Gaz. vol. 148; p. 1152.  
 Manhole frame and cover, Combination. D. A. Harrington. No. 922,892; May 25; Sp. p. 5781; Gaz. vol. 142; p. 1008.  
 Manhole-guard, Disappearing. R. Parks. No. 911,753; Feb. 9; Sp. p. 1440; Gaz. vol. 139; p. 268.  
 Manicure implement. B. M. Smith. No. 915,047; Mar. 9; Sp. p. 2855; Gaz. vol. 140; p. 484.  
 Manicure implement. R. Wild. No. 920,409; May 4; Sp. p. 643; Gaz. vol. 142; p. 103.  
 Manicuring device. H. W. Durkee. No. 938,227; Oct. 26; Sp. p. 5507; Gaz. vol. 147; p. 941.  
 Manicurist's buffer. E. M. Weatherbee. No. 908,917; Jan. 5; Sp. p. 1001; Gaz. vol. 138; p. 160.  
 Manifolding apparatus. O. Loewenbach. No. 933,910; Sept. 14; Sp. p. 1940; Gaz. vol. 146; p. 319.  
 Manifolding apparatus. A. Lewis. No. 943,195; Dec. 14; Sp. p. 2502; Gaz. vol. 149; p. 424.  
 Manifolding device. O. M. Delesdernier. No. 911,580; Feb. 9; Sp. p. 1089; Gaz. vol. 139; p. 212.  
 Manifolding device. J. H. Schweich. No. 926,212; June 29; Sp. p. 6562; Gaz. vol. 143; p. 1159.  
 Manifolding device. J. H. Schweich. No. 926,213; June 29; Sp. p. 6566; Gaz. vol. 143; p. 1160.  
 Manifolding-pad. E. K. Bottle. No. 928,625; July 20; Sp. p. 3999; Gaz. vol. 144; p. 698.  
 Manifolding-pad. E. K. Bottle. No. 936,697; Oct. 12; Sp. p. 2313; Gaz. vol. 147; p. 384.  
 Manifolding-pad. E. Carney and E. Stine. No. 937,420; Oct. 19; Sp. p. 3818; Gaz. vol. 147; p. 650.  
 Manifolding-pad. B. C. Maxwell. No. 939,148; Nov. 2; Sp. p. 1494; Gaz. vol. 148; p. 242.  
 Manipulator for feed-tables for rolling-mills. J. Fawell. No. 915,669; Mar. 16; Sp. p. 4169; Gaz. vol. 140; p. 719.  
 Mantel-panel. W. J. Gray. No. 912,670; Feb. 16; Sp. p. 3395; Gaz. vol. 139; p. 608.  
 Mantle and burner therefor, Incandescent. D. Anderson. No. 911,360; Feb. 2; Sp. p. 660; Gaz. vol. 139; p. 112.  
 Mantle-box. J. H. Russell. No. 914,189; Mar. 2; Sp. p. 1152; Gaz. vol. 140; p. 179.  
 Mantle for gas-burners, Incandescent. M. Weickert. No. 944,928; Dec. 28; Sp. p. 6242; Gaz. vol. 149; p. 1072.  
 Mantle-holder. A. Herskovitz. No. 927,725; July 13; Sp. p. 2130; Gaz. vol. 144; p. 369.  
 Mantle-holder. M. Offenberger. No. 932,636; Aug. 31; Sp. p. 6377; Gaz. vol. 145; p. 1100.  
 Mantle, Incandescent. O. Kaufmann. No. 940,639; Nov. 16; Sp. p. 4860; Gaz. vol. 148; p. 809.  
 Mantle, Incandescent. T. Terrell. No. 943,488; Dec. 14; Sp. p. 3118; Gaz. vol. 149; p. 526.  
 Mantle shaping and dipping machine. Light. C. C. Travis. No. 916,506; Mar. 30; Sp. p. 5801; Gaz. vol. 140; p. 1044.  
 Mantle-shirring machine. S. Cohn. No. 937,511; Oct. 19; Sp. p. 4013; Gaz. vol. 147; p. 682.  
 Mantle-support. A. Rector. No. 917,659; Apr. 6; Sp. p. 1354; Gaz. vol. 141; p. 238.  
 Mantles of refractory incandescing earthen, Reinforcing. E. D. Gleason. No. 931,920; Aug. 24; Sp. p. 4887; Gaz. vol. 145; p. 838.  
 Manual planter. S. A. Sierra. No. 911,453; Feb. 2; Sp. p. 817; Gaz. vol. 139; p. 143.  
 Manure and alkali salts, Manufacture of. A. Vasseux. No. 909,350; Jan. 12; Sp. p. 1864; Gaz. vol. 138; p. 334.  
 Manure and dirt loader. L. C. Peterson. No. 918,695; Apr. 20; Sp. p. 3619; Gaz. vol. 141; p. 641.  
 Manure-carrier. O. Rosenthal. No. 911,332; Feb. 2; Sp. p. 607; Gaz. vol. 139; p. 104.  
 Manure-carrier. L. T. Schemmel and C. L. Besler. No. 917,801; Apr. 13; Sp. p. 1680; Gaz. vol. 141; p. 312.  
 Manure collector and conveyor. M. J. Hager. No. 928,123; July 13; Sp. p. 2926; Gaz. vol. 144; p. 500.  
 Manure-distributor. C. W. Behrens. No. 927,095; July 6; Sp. p. 837; Gaz. vol. 144; p. 134.  
 Manure-drill. A. Spies. No. 938,177; Oct. 26; Sp. p. 5400; Gaz. vol. 147; p. 923.  
 Manure-loader. C. Dieleman, W. D. and J. D. Rietveld. No. 928,187; July 13; Sp. p. 3071; Gaz. vol. 144; p. 523.  
 Manure-loader. J. B. Mohan. No. 935,391; Sept. 28; Sp. p. 4859; Gaz. vol. 146; p. 859.  
 Manure pulverizer and loader. J. N. Frost. No. 909,576; Jan. 12; Sp. p. 2309; Gaz. vol. 138; p. 409.  
 Manure-receiving attachment. J. Harrigan. No. 909,998; Jan. 19; Sp. p. 3159; Gaz. vol. 138; p. 584.  
 Manure-receptacle. W. H. Hunt. No. 935,511; Sept. 28; Sp. p. 5106; Gaz. vol. 146; p. 898.  
 Manure-scraper. C. Dieleman, W. D. and J. D. Rietveld. No. 928,186; July 13; Sp. p. 3068; Gaz. vol. 144; p. 522.  
 Manure-spreader. C. W. Smith. No. 911,620; Feb. 9; Sp. p. 1182; Gaz. vol. 139; p. 224.  
 Manure-spreader. C. H. Weber and J. L. Brown. No. 918,232; Apr. 13; Sp. p. 2582; Gaz. vol. 141; p. 460.  
 Manure-spreader. D. J. Beem. No. 920,247; May 4; Sp. p. 325; Gaz. vol. 142; p. 51.  
 Manure-spreader. T. Brown. No. 920,260; May 4; Sp. p. 361; Gaz. vol. 142; p. 56.  
 Manure-spreader. D. K. Wilson and A. W. Lee. No. 921,045; May 11; Sp. p. 1927; Gaz. vol. 142; p. 342.  
 Manure-spreader. O. J. Grundy. No. 921,103; May 11; Sp. p. 2065; Gaz. vol. 142; p. 363.  
 Manure-spreader. W. I. Wiedemeyer. No. 922,330; May 25; Sp. p. 5637; Gaz. vol. 142; p. 988.  
 Manure-spreader. L. S. Hackney. No. 927,141; July 6; Sp. p. 919; Gaz. vol. 144; p. 148.  
 Manure-spreader. D. Garst. No. 932,461; Aug. 31; Sp. p. 5973; Gaz. vol. 145; p. 1040.  
 Manure-spreader. D. K. Wilson. No. 933,515; Sept. 7; Sp. p. 1149; Gaz. vol. 146; p. 165.  
 Manure-spreader. D. Garst. No. 941,513; Nov. 30; Sp. p. 6768; Gaz. vol. 145; p. 1146.  
 Manure-spreader. E. C. Littlefield and D. Garst. (Reissue.) No. 13,047; Nov. 30; Sp. p. 7864; Gaz. vol. 148; p. 1325.  
 Manure-spreader. J. H. Bloom. No. 943,731; Dec. 21; Sp. p. 3671; Gaz. vol. 149; p. 638.  
 Manure-spreader. T. Brown. No. 944,479; Dec. 28; Sp. p. 5252; Gaz. vol. 149; p. 920.  
 Map-case. A. S. Smith. No. 921,901; May 18; Sp. p. 4728; Gaz. vol. 142; p. 637.  
 Map, globe, and other geographical appliance, Geographical. W. Wilson. No. 944,248; Dec. 21; Sp. p. 4732; Gaz. vol. 149; p. 811.



*Alphabetical list of inventions—Continued.*

- Maps, &c., Assisting forecasters in the preparation of weather-. A. G. McAdie. No. 914,500; Mar. 9; Sp. p. 1777; Gaz. vol. 140; p. 305.
- Marble, Artificial. J. Mitats. No. 928,061; July 13; Sp. p. 2824; Gaz. vol. 144; p. 481.
- Marble shooter or gun. J. A. Radebaugh. No. 925,944; June 22; Sp. p. 5986; Gaz. vol. 143; p. 1034.
- Marble slabs, Device for connecting. F. O. Streed. No. 924,703; June 15; Sp. p. 3461; Gaz. vol. 143; p. 595.
- Marble slabs, Dividing. J. R. Peirce. No. 914,303; Mar. 2; Sp. p. 1379; Gaz. vol. 140; p. 214.
- Marbles, Device for assisting in the shooting of. H. O. Hughes. No. 934,812; Sept. 21; Sp. p. 3691; Gaz. vol. 146; p. 641.
- Marine port-screen. C. A. Wilson. No. 923,396; June 1; Sp. p. 654; Gaz. vol. 143; p. 95.
- Marine table. J. H. Jones. No. 935,155; Sept. 28; Sp. p. 4387; Gaz. vol. 146; p. 783.
- Marine table. A. H. Pence. No. 938,695; Nov. 2; Sp. p. 546; Gaz. vol. 148; p. 85.
- Marker and gage, Combined siding. G. D. Baighel. No. 913,871; Mar. 2; Sp. p. 430; Gaz. vol. 140; p. 70.
- Marker, Automatic. L. Biberman and W. Mills. No. 913,682; Mar. 2; Sp. p. 8; Gaz. vol. 140; p. 4.
- Marker, Land-. H. N. Randall. No. 913,235; Feb. 23; Sp. p. 4573; Gaz. vol. 139; p. 820.
- Marker, Laundry-. G. L. Dixon. No. 908,847; Jan. 5; Sp. p. 864; Gaz. vol. 138; p. 136.
- Marker, Self-feeding. A. G. Gunn. No. 938,846; Nov. 2; Sp. p. 849; Gaz. vol. 148; p. 136.
- Marking agent, Composition of matter to be used as an indelible. C. Wild, Jr. No. 919,410; Apr. 27; Sp. p. 5256; Gaz. vol. 141; p. 910.
- Marking and cutting goods for garments. F. P. Mackenzie. No. 943,947; Dec. 21; Sp. p. 4117; Gaz. vol. 149; p. 713.
- Marking board, Upholstery-goods-. J. G. Hulise and A. F. Schramm. No. 942,908; Dec. 14; Sp. p. 1866; Gaz. vol. 149; p. 328.
- Marking device. R. Cook. No. 930,046; Aug. 3; Sp. p. 890; Gaz. vol. 145; p. 144.
- Marking-gage. G. M. Yates. No. 937,352; Oct. 19; Sp. p. 3648; Gaz. vol. 147; p. 628.
- Marking-machine. G. C. Kutz. No. 925,923; June 22; Sp. p. 5947; Gaz. vol. 143; p. 1027.
- Marking with metallic lead, Insulated tool for. H. A. Every. No. 918,833; Apr. 20; Sp. p. 3895; Gaz. vol. 141; p. 687.
- Mashing-machine. A. R. Keller. No. 922,486; May 25; Sp. p. 4912; Gaz. vol. 142; p. 875.
- Mashing-machine. A. R. Keller. No. 927,976; July 13; Sp. p. 2655; Gaz. vol. 144; p. 452.
- Mashing process. C. Zimmer. No. 934,783; Sept. 21; Sp. p. 3627; Gaz. vol. 146; p. 632.
- Mask, Breathing-. E. Kuhn. No. 938,247; Oct. 26; Sp. p. 5546; Gaz. vol. 147; p. 947.
- Mask for removing and preventing wrinkles, Facial. E. Hannig. No. 922,420; May 18; Sp. p. 4765; Gaz. vol. 142; p. 826.
- Masonry and steel structure. R. Guastavino. No. 915,026; Mar. 9; Sp. p. 2814; Gaz. vol. 140; p. 476.
- Massage and air-compressing machine. J. B. Fey. No. 939,822; Nov. 9; Sp. p. 3025; Gaz. vol. 148; p. 498.
- Massage apparatus. H. Ginnel. No. 908,855; Jan. 5; Sp. p. 877; Gaz. vol. 138; p. 139.
- Massage apparatus. M. A. Haines. No. 913,492; Feb. 23; Sp. p. 5076; Gaz. vol. 139; p. 906.
- Massage apparatus. L. Bramson. No. 916,098; Mar. 23; Sp. p. 4988; Gaz. vol. 140; p. 884.
- Massage apparatus. K. P. Wallén. No. 916,637; Mar. 30; Sp. p. 6059; Gaz. vol. 140; p. 1086.
- Massage apparatus. J. W. Jones. No. 942,206; Dec. 7; Sp. p. 382; Gaz. vol. 149; p. 58.
- Massage apparatus. B. M. Bassler. No. 944,252; Dec. 28; Sp. p. 4748; Gaz. vol. 149; p. 840.
- Massage apparatus, Vibratory. E. N. Sippierley. No. 909,828; Jan. 12; Sp. p. 2800; Gaz. vol. 138; p. 493.
- Massage apparatus, Vibratory. C. O. Lindstrom. No. 915,197; Mar. 16; Sp. p. 3209; Gaz. vol. 140; p. 560.
- Massage apparatus, Vibratory. H. C. Brown. No. 921,671; May 18; Sp. p. 3270; Gaz. vol. 142; p. 581.
- Massage-applying apparatus, Internal-. F. L. Talcott. No. 912,205; Feb. 9; Sp. p. 2394; Gaz. vol. 139; p. 413.
- Massage device. T. H. Midgley. No. 912,708; Feb. 16; Sp. p. 3491; Gaz. vol. 139; p. 622.
- Massage device. J. Vanderslice. No. 915,251; Mar. 16; Sp. p. 3306; Gaz. vol. 140; p. 578.
- Massage device. J. J. Egan. No. 923,158; June 1; Sp. p. 83; Gaz. vol. 143; p. 14.
- Massage device. H. Wiking and B. J. Bengtsson. No. 942,299; Dec. 7; Sp. p. 576; Gaz. vol. 149; p. 92.
- Massage instrument. J. W. Scott and D. Tibbals. No. 917,367; Apr. 6; Sp. p. 833; Gaz. vol. 141; p. 142.
- Massage instrument. W. H. Coon. No. 926,245; June 29; Sp. p. 6631; Gaz. vol. 143; p. 1170.
- Massage-machine, Vacuum. N. Lombard. No. 944,737; Dec. 28; Sp. p. 5838; Gaz. vol. 149; p. 1008.
- Massage-tool. H. A. Grass. No. 927,786; July 13; Sp. p. 2251; Gaz. vol. 144; p. 359.
- Massage-vibrator. E. S. Faison. No. 934,662; Sept. 21; Sp. p. 3401; Gaz. vol. 146; p. 593.
- Massage-vibrator. E. Fahsbender. No. 935,746; Oct. 5; Sp. p. 260; Gaz. vol. 147; p. 42.
- Massaging and exercising implement. C. J. Hero. No. 932,780; Aug. 31; Sp. p. 6689; Gaz. vol. 145; p. 1148.
- Massaging device. M. Fisch. No. 909,571; Jan. 12; Sp. p. 2301; Gaz. vol. 138; p. 407.
- Massaging device. W. I. Miller. No. 912,016; Feb. 9; Sp. p. 2038; Gaz. vol. 139; p. 355.
- Massaging device. K. Davis. No. 927,125; July 6; Sp. p. 891; Gaz. vol. 144; p. 143.
- Massaging implement. O. N. Tevander. No. 915,315; Mar. 16; Sp. p. 3422; Gaz. vol. 140; p. 597.
- Massaging-machine, Vacuum. C. B. Rider. No. 929,112; July 27; Sp. p. 4988; Gaz. vol. 144; p. 887.
- Massaging-machine, Vacuum. C. B. Rider. No. 929,113; July 27; Sp. p. 4990; Gaz. vol. 144; p. 888.
- Mast. H. B. De Groot. No. 922,400; May 18; Sp. p. 4729; Gaz. vol. 142; p. 819.
- Masticator. S. M. Kohonke. No. 937,613; Oct. 19; Sp. p. 4205; Gaz. vol. 147; p. 716.
- Mat: See Bottle-mat; Door-mat; Table-mat.
- Mat. W. M. Wattie. No. 910,332; Jan. 19; Sp. p. 3887; Gaz. vol. 138; p. 699.
- Mat. T. C. McPherson. No. 912,600; Feb. 16; Sp. p. 3259; Gaz. vol. 139; p. 585.
- Mat. E. W. Cruikshank. No. 935,889; Sept. 14; Sp. p. 1885; Gaz. vol. 146; p. 312.
- Mats, carpets, &c., Device for holding down. W. T. Milward. No. 910,940; Jan. 26; Sp. p. 5112; Gaz. vol. 138; p. 921.
- Match. G. Galy. No. 914,264; Mar. 2; Sp. p. 1300; Gaz. vol. 140; p. 202.
- Match and cigarette box, Combined. A. S. Davis. No. 944,954; Dec. 28; Sp. p. 6283; Gaz. vol. 149; p. 1080.
- Match-box. E. L. Hembree. No. 909,407; Jan. 12; Sp. p. 1972; Gaz. vol. 138; p. 351.
- Match-box. E. E. McNeill. No. 911,671; Feb. 9; Sp. p. 1291; Gaz. vol. 139; p. 241.
- Match-box. R. E. Johnson. No. 912,381; Feb. 16; Sp. p. 2999; Gaz. vol. 139; p. 511.
- Match-box. E. Ellis. No. 913,714; Mar. 2; Sp. p. 78; Gaz. vol. 140; p. 14.
- Match-box. A. Waag. No. 914,208; Mar. 2; Sp. p. 1178; Gaz. vol. 140; p. 185.
- Match-box. J. H. McCord. No. 915,206; Mar. 16; Sp. p. 3228; Gaz. vol. 140; p. 564.
- Match-box. J. Vogt. No. 915,514; Mar. 16; Sp. p. 3813; Gaz. vol. 140; p. 663.
- Match-box. A. Dumas. No. 916,922; Mar. 30; Sp. p. 6592; Gaz. vol. 140; p. 1175.
- Match-box. B. Breum. No. 917,708; Apr. 6; Sp. p. 1451; Gaz. vol. 141; p. 254.
- Match-box. C. S. Robinson. No. 919,639; Apr. 27; Sp. p. 5750; Gaz. vol. 141; p. 989.
- Match-box. A. C. Lichtendorf. No. 920,071; Apr. 27; Sp. p. 6653; Gaz. vol. 141; p. 1132.
- Match-box. H. B. Lane. No. 920,349; May 4; Sp. p. 526; Gaz. vol. 142; p. 84.
- Match-box. A. L. Evrett and J. C. McQuerry. No. 921,683; May 18; Sp. p. 3290; Gaz. vol. 142; p. 585.
- Match-box. G. Gleasure. No. 922,472; May 25; Sp. p. 4893; Gaz. vol. 142; p. 871.
- Match-box. P. J. Wurzbarger. No. 924,522; June 8; Sp. p. 3058; Gaz. vol. 143; p. 501.
- Match-box. F. E. Ladler. No. 925,485; June 22; Sp. p. 5003; Gaz. vol. 143; p. 883.
- Match-box. L. C. Lang. No. 925,487; June 22; Sp. p. 5006; Gaz. vol. 143; p. 884.
- Match-box. A. E. Miller. No. 926,673; June 29; Sp. p. 7427; Gaz. vol. 143; p. 1310.
- Match-box. E. Ellis. No. 929,411; July 27; Sp. p. 5634; Gaz. vol. 144; p. 988.
- Match-box. A. C. Nelson and J., Jr. No. 929,782; Aug. 3; Sp. p. 319; Gaz. vol. 145; p. 54.
- Match-box. H. W. Mann. No. 930,301; Aug. 3; Sp. p. 1371; Gaz. vol. 145; p. 227.
- Match-box. J. M. Cramer. No. 934,287; Sept. 14; Sp. p. 2665; Gaz. vol. 146; p. 442.
- Match-box. A. J. Bechtel. No. 937,408; Oct. 19; Sp. p. 3787; Gaz. vol. 147; p. 646.
- Match-box. B. F. Hudson. No. 937,809; Oct. 26; Sp. p. 4609; Gaz. vol. 147; p. 798.
- Match-box and bill-holder. W. F. Smith and M. Johnson. No. 929,257; July 27; Sp. p. 5276; Gaz. vol. 144; p. 936.
- Match-box and cigar-clipper, Combined. J. C. Harrison. No. 925,339; June 15; Sp. p. 4716; Gaz. vol. 143; p. 805.
- Match-box and cigar-cutter, Combined. H. L. Farrow. No. 909,852; Jan. 12; Sp. p. 2845; Gaz. vol. 138; p. 501.
- Match-box and cigar-cutter, Combined. W. H. Webster. No. 924,022; June 8; Sp. p. 2026; Gaz. vol. 143; p. 336.
- Match-box and cigar-cutter, Combined. F. M. Ross and J. A. Ward. No. 935,411; Sept. 28; Sp. p. 4894; Gaz. vol. 146; p. 865.
- Match-box and cigar-cutter, Combined. E. Oldenbusch. No. 937,688; Oct. 19; Sp. p. 4337; Gaz. vol. 147; p. 739.
- Match-box and cigar-cutter, Combined pocket. J. Havassy. No. 928,447; July 20; Sp. p. 3644; Gaz. vol. 144; p. 642.
- Match box and safe, Automatic-feed. I. A. Viersen. No. 916,230; Mar. 23; Sp. p. 5240; Gaz. vol. 140; p. 925.
- Match box and scratcher, Combined. F. W. Van Slyck. No. 909,969; Jan. 19; Sp. p. 3107; Gaz. vol. 138; p. 575.
- Match-box, Automatic. W. A. Carter. No. 935,302; Oct. 12; Sp. p. 1437; Gaz. vol. 147; p. 250.
- Match-box, Automatic. J. G. Hanna. No. 939,252; Nov. 9; Sp. p. 1739; Gaz. vol. 148; p. 302.
- Match-box-filling machines, Extinguishing means for. C. R. Andersson. No. 923,476; June 1; Sp. p. 813; Gaz. vol. 143; p. 122.
- Match-box holder. J. M. Merrill. No. 919,448; Apr. 27; Sp. p. 5343; Gaz. vol. 141; p. 923.
- Match-box holder. J. H. Esdorn. No. 920,297; May 4; Sp. p. 441; Gaz. vol. 142; p. 68.

*Alphabetical list of inventions—Continued.*

- Match-box holder. L. Paden. No. 921,445; May 11; Sp. p. 2783; Gaz. vol. 142; p. 445.  
 Match-box, Safety. J. and W. H. Demaine. No. 935,472; Sept. 28; Sp. p. 5008; Gaz. vol. 146; p. 885.  
 Match-box, Self-igniting folded. P. E. Gonon. No. 921,827; May 18; Sp. p. 3589; Gaz. vol. 142; p. 633.  
 Match-boxes, Machine for pasting the inner boxes or slides of. C. S. Nyberg. No. 943,158; Dec. 14; Sp. p. 2435; Gaz. vol. 149; p. 414.  
 Match-case and cigar-tip cutter, Combined. G. L. Buckman. No. 924,631; June 15; Sp. p. 3316; Gaz. vol. 143; p. 571.  
 Match-delivery apparatus. W. H. Morris. No. 921,617; May 11; Sp. p. 3127; Gaz. vol. 142; p. 535.  
 Match dispenser and igniter, Combined. E. Lamprecht. No. 925,200; June 15; Sp. p. 4475; Gaz. vol. 143; p. 764.  
 Match, Duplex. J. Roche. No. 933,393; Sept. 7; Sp. p. 813; Gaz. vol. 146; p. 126.  
 Match-holder. W. C. Kelley. No. 908,678; Jan. 5; Sp. p. 533; Gaz. vol. 138; p. 82.  
 Match-holder. W. A. Smith. No. 926,029; June 22; Sp. p. 6152; Gaz. vol. 143; p. 1062.  
 Match holder or safe. H. M. King. No. 939,710; Nov. 9; Sp. p. 2782; Gaz. vol. 148; p. 459.  
 Match-igniting composition. L. Stange. No. 930,570; Aug. 10; Sp. p. 1946; Gaz. vol. 145; p. 343.  
 Match-lighter. J. J. Willingham. No. 944,756; Dec. 28; Sp. p. 5888; Gaz. vol. 149; p. 1014.  
 Match-lighter, Automatic. \* E. H. Meyer. No. 929,683; Aug. 3; Sp. p. 81; Gaz. vol. 145; p. 16.  
 Match-machine. W. H. Parker. No. 921,731; May 18; Sp. p. 3373; Gaz. vol. 142; p. 600.  
 Match-machine. W. R. Swett. No. 939,348; Nov. 9; Sp. p. 1983; Gaz. vol. 148; p. 337.  
 Match-machines, Dipping devices for. O. H. Landvatter. No. 940,934; Nov. 23; Sp. p. 5504; Gaz. vol. 148; p. 932.  
 Match-making machine. E. J. Young and J. H. Weaver. No. 920,513; May 4; Sp. p. 852; Gaz. vol. 142; p. 138.  
 Match-making-machine attachment. J. E. State. No. 935,825; Oct. 5; Sp. p. 491; Gaz. vol. 147; p. 69.  
 Match-receptacle. W. H. Evers. No. 911,482; Feb. 2; Sp. p. 862; Gaz. vol. 139; p. 152.  
 Match-receptacle. J. T. McDowell. No. 918,079; Apr. 13; Sp. p. 2277; Gaz. vol. 141; p. 409.  
 Match receptacle and igniter, Combined. E. Lamprecht. No. 925,924; June 22; Sp. p. 5952; Gaz. vol. 143; p. 1027.  
 Match-safe. F. G. White. No. 908,923; Jan. 5; Sp. p. 1011; Gaz. vol. 138; p. 162.  
 Match-safe. E. E. Sanders. No. 909,026; Jan. 5; Sp. p. 1216; Gaz. vol. 138; p. 195.  
 Match-safe. H. V. Delger. No. 910,044; Jan. 19; Sp. p. 3246; Gaz. vol. 138; p. 599.  
 Match-safe. J. Harbolsheimer. No. 911,495; Feb. 2; Sp. p. 886; Gaz. vol. 139; p. 156.  
 Match-safe. M. B. Keller. No. 913,394; Feb. 23; Sp. p. 4883; Gaz. vol. 139; p. 875.  
 Match-safe. H. K. and O. K. Porter. No. 913,978; Mar. 2; Sp. p. 691; Gaz. vol. 140; p. 108.  
 Match-safe. G. E. Parker. No. 918,085; Apr. 13; Sp. p. 2290; Gaz. vol. 141; p. 410.  
 Match-safe. E. L. Tenney. No. 918,927; Apr. 20; Sp. p. 4100; Gaz. vol. 141; p. 719.  
 Match-safe. S. Whitcomb. No. 924,407; June 8; Sp. p. 2843; Gaz. vol. 143; p. 464.  
 Match-safe. A. M. Cairns. No. 926,316; June 29; Sp. p. 6758; Gaz. vol. 143; p. 1192.  
 Match-safe. J. Borth. No. 927,024; July 6; Sp. p. 668; Gaz. vol. 144; p. 108.  
 Match-safe. E. A. Bolen. No. 928,023; July 13; Sp. p. 2736; Gaz. vol. 144; p. 467.  
 Match-safe. J. T. Smith. No. 932,645; Aug. 31; Sp. p. 6394; Gaz. vol. 145; p. 1103.  
 Match-safe. C. H. Paulus. No. 934,459; Sept. 21; Sp. p. 3012; Gaz. vol. 146; p. 525.  
 Match-safe. F. Schille. No. 939,100; Nov. 2; Sp. p. 1378; Gaz. vol. 148; p. 224.  
 Match-safe. W. G. Monk. No. 940,344; Nov. 16; Sp. p. 4214; Gaz. vol. 148; p. 710.  
 Match-safe. J. E. Gearhart. No. 940,387; Nov. 16; Sp. p. 4335; Gaz. vol. 148; p. 720.  
 Match-safe. C. E. Birky. No. 942,706; Dec. 7; Sp. p. 1392; Gaz. vol. 149; p. 228.  
 Match-safe. E. and D. C. Pooler. No. 943,098; Dec. 14; Sp. p. 2317; Gaz. vol. 149; p. 393.  
 Match-safe. J. De Bruin. No. 944,413; Dec. 28; Sp. p. 5113; Gaz. vol. 149; p. 898.  
 Match-safe and cigar-cutter, Combined. J. N. Mitchell. No. 909,441; Jan. 12; Sp. p. 2038; Gaz. vol. 138; p. 363.  
 Match-safe and cigar-cutter, Combined. J. Cassie and J. D. Martin. No. 910,043; Jan. 19; Sp. p. 3245; Gaz. vol. 138; p. 598.  
 Match-safe and cigar-cutter, Combined. D. C. Flanagan. No. 922,570; May 25; Sp. p. 5093; Gaz. vol. 142; p. 904.  
 Match-safe and cigar-perforator, Combined. A. L. Erskine. No. 929,414; July 27; Sp. p. 5637; Gaz. vol. 144; p. 989.  
 Match-safe and lighter. J. G. and A. L. Porttues. No. 922,507; May 25; Sp. p. 4946; Gaz. vol. 142; p. 882.\*  
 Match-safe attachment. J. De Bruin. No. 944,414; Dec. 28; Sp. p. 5115; Gaz. vol. 149; p. 898.  
 Match-safe, Pocket. J. F. Beatty. No. 939,657; Nov. 9; Sp. p. 2671; Gaz. vol. 148; p. 442.  
 Match-safe, Self-feeder. F. E. Long. No. 912,697; Feb. 16; Sp. p. 3469; Gaz. vol. 139; p. 619.  
 Match-scratcher. G. A. Barnes. No. 941,487; Nov. 30; Sp. p. 6714; Gaz. vol. 148; p. 1137.  
 Match-scratcher. J. H. Havocotte and M. Stanley. No. 944,363; Dec. 28; Sp. p. 4998; Gaz. vol. 149; p. 880.  
 Match-server. G. Bouthinon. No. 929,823; Aug. 3; Sp. p. 415; Gaz. vol. 145; p. 69.  
 Match-serving box. J. Hermann. No. 913,132; Feb. 23; Sp. p. 4347; Gaz. vol. 139; p. 786.  
 Match-splint machine. E. J. Sterba and J. H. Birch. No. 944,519; Dec. 28; Sp. p. 5362; Gaz. vol. 149; p. 934.  
 Match telescoping holder. B. H. McDonald. No. 930,406; Aug. 10; Sp. p. 1581; Gaz. vol. 145; p. 286.  
 Match unloading and boxer. E. J. Sterba and J. H. Birch. No. 933,727; Sept. 7; Sp. p. 1567; Gaz. vol. 146; p. 237.  
 Matches, Combined original package and safe for. F. F. Theobald. No. 938,913; Nov. 2; Sp. p. 1019; Gaz. vol. 148; p. 161.  
 Matching-machine. E. Koll. No. 915,098; Mar. 16; Sp. p. 2977; Gaz. vol. 140; p. 527.  
 Material-cutter. H. Zimmerman. No. 931,830; Aug. 24; Sp. p. 4669; Gaz. vol. 145; p. 809.  
 Material-handling apparatus. H. W. Blaisdell. No. 910,966; Jan. 26; Sp. p. 5193; Gaz. vol. 138; p. 936.  
 Matrices, Dovetail-notch-chamfering machine for. H. A. Reynolds. No. 939,632; Nov. 9; Sp. p. 2624; Gaz. vol. 148; p. 432.  
 Matrices, Producing. P. T. Dodge. No. 939,988; Nov. 16; Sp. p. 3398; Gaz. vol. 148; p. 585.  
 Matrix-channeling machine. H. A. Reynolds. No. 939,631; Nov. 9; Sp. p. 2622; Gaz. vol. 148; p. 432.  
 Matrix combination punching-machine. H. A. Reynolds. No. 939,633; Nov. 9; Sp. p. 2627; Gaz. vol. 148; p. 433.  
 Matrix-contouring machine, Crown-. F. O. Jaques, Jr. No. 932,133; Aug. 24; Sp. p. 5335; Gaz. vol. 145; p. 910.  
 Matrix-distributing mechanism. B. F. Bellows. No. 921,065; May 11; Sp. p. 1982; Gaz. vol. 142; p. 350.  
 Matrix-drying press. M. S. Bentley. No. 921,067; May 11; Sp. p. 1990; Gaz. vol. 142; p. 350.  
 Matrix making and drying machine. A. Walddt. No. 927,615; July 13; Sp. p. 1888; Gaz. vol. 144; p. 333.  
 Matrix-making machine. R. Coopersmith. No. 931,998; Aug. 24; Sp. p. 5052; Gaz. vol. 145; p. 864.  
 Matrix-retainer. J. W. Ivory. No. 911,307; Feb. 2; Sp. p. 561; Gaz. vol. 139; p. 96.  
 Matrix-retainer. J. W. Ivory. No. 943,353; Dec. 14; Sp. p. 2846; Gaz. vol. 149; p. 479.  
 Matter or objects in quantities, Examining. J. I. Solomon. No. 928,888; July 20; Sp. p. 4525; Gaz. vol. 144; p. 788.  
 Mattocks and similar tools, Making. G. F. Konold. No. 909,000; Jan. 5; Sp. p. 1171; Gaz. vol. 138; p. 186.  
 Mattress. M. Brown. No. 912,536; Feb. 16; Sp. p. 3137; Gaz. vol. 139; p. 563.  
 Mattress. D. E. Miller. No. 928,778; July 20; Sp. p. 4297; Gaz. vol. 144; p. 749.  
 Mattress. P. Klimowicz and J. S. Worzalla. No. 929,449; July 27; Sp. p. 5688; Gaz. vol. 144; p. 909.  
 Mattress. I. J. Weinberg. No. 931,361; Aug. 17; Sp. p. 3682; Gaz. vol. 145; p. 636.  
 Mattress and furniture spring. F. J. Mauborgne. No. 936,649; Oct. 12; Sp. p. 2220; Gaz. vol. 147; p. 368.  
 Mattress-carrying device. E. Donner. No. 927,506; July 13; Sp. p. 1646; Gaz. vol. 144; p. 295.  
 Mattress, Filled. M. Fischman. No. 912,456; Feb. 16; Sp. p. 2951; Gaz. vol. 139; p. 536.  
 Mattress-filling device. J. F. Dettman and B. D. Courts. No. 922,401; May 18; Sp. p. 4731; Gaz. vol. 142; p. 820.  
 Mattress, Invalid's. J. T. Lunn. No. 944,624; Dec. 28; Sp. p. 5597; Gaz. vol. 149; p. 971.  
 Mattress-making machine. C. W. White. No. 917,221; Apr. 6; Sp. p. 529; Gaz. vol. 141; p. 92.  
 Mattress-protector. F. K. Broadhurst and O. R. Rand. No. 920,256; May 4; Sp. p. 341; Gaz. vol. 142; p. 54.  
 Mattress, Spring-. H. H. Odell. No. 916,002; Mar. 23; Sp. p. 4819; Gaz. vol. 140; p. 852.  
 Mattress, Spring-. M. Ackermann. No. 926,375; June 29; Sp. p. 6876; Gaz. vol. 143; p. 1210.  
 Mattress-strap. W. W. Allen. No. 931,024; Aug. 17; Sp. p. 2937; Gaz. vol. 145; p. 520.  
 Mattress-stuffer. F. Franke. No. 932,693; Aug. 31; Sp. p. 6498; Gaz. vol. 145; p. 1119.  
 Mattress-supporter. J. Wilkins. No. 933,215; Sept. 7; Sp. p. 414; Gaz. vol. 146; p. 64.  
 Mattress, Ventilated. J. Kalas, J. Klasna, and F. Barabas. No. 932,024; Aug. 24; Sp. p. 5108; Gaz. vol. 145; p. 873.  
 Mattress, Wire. G. B. Smith. No. 909,244; Jan. 12; Sp. p. 1664; Gaz. vol. 138; p. 300.  
 Mattress, Wire. C. J. Witzel. No. 921,494; May 11; Sp. p. 2876; Gaz. vol. 142; p. 495.  
 Mattress, Woven-wire. R. G. Marquardt. No. 923,286; June 1; Sp. p. 400; Gaz. vol. 143; p. 57.  
 Mattresses, Device for moving. A. M. Brooke. No. 915,734; Mar. 23; Sp. p. 4314; Gaz. vol. 140; p. 767.  
 Mausoleum construction, &c. C. U. Downey. No. 912,368; Feb. 16; Sp. p. 2774; Gaz. vol. 139; p. 505.  
 Measure. J. R. Carroll. No. 926,688; June 29; Sp. p. 7460; Gaz. vol. 143; p. 1315.  
 Measure, Automatic grain-. J. H. Royer. No. 925,390; June 15; Sp. p. 4810; Gaz. vol. 143; p. 822.  
 Measure, Dry. G. W. Lyons. No. 917,329; Apr. 6; Sp. p. 767; Gaz. vol. 141; p. 130.  
 Measure-indicating tag for fabrics. A. Van Kempen. No. 917,913; Apr. 13; Sp. p. 1928; Gaz. vol. 141; p. 349.  
 Measure, Liquid-. S. E. Blizard. No. 923,618; June 1; Sp. p. 1136; Gaz. vol. 143; p. 174.  
 Measure or rule. C. Poland. No. 934,835; Sept. 21; Sp. p. 3739; Gaz. vol. 146; p. 650.



*Alphabetical list of inventions—Continued.*

- Measure, Shoe-. C. D. Blackmon. No. 931,725; Aug. 24; Sp. p. 4454; Gaz. vol. 145; p. 775.  
 Measure, Tailor's. N. di Domenico. No. 915,835; Mar. 23; Sp. p. 4499; Gaz. vol. 140; p. 798.  
 Measure, Tailor's. M. Ciervo. No. 927,948; July 13; Sp. p. 2602; Gaz. vol. 144; p. 443.  
 Measure, Tape-. T. W. Hanrath. No. 940,873; Nov. 23; Sp. p. 5380; Gaz. vol. 148; p. 912.  
 Measurer and marker, Cloth. C. J. Sykes. No. 941,110; Nov. 23; Sp. p. 5879; Gaz. vol. 148; p. 990.  
 Measurer, Liquid-. C. C. Allen. No. 921,336; May 11; Sp. p. 2559; Gaz. vol. 142; p. 442.  
 Measurer, Liquid-. C. C. Allen. No. 939,198; Nov. 9; Sp. p. 1614; Gaz. vol. 148; p. 285.  
 Measurer, Lumber-. W. B. Woodruff. No. 926,631; June 29; Sp. p. 7345; Gaz. vol. 143; p. 1296.  
 Measurer, Skirt-. M. E. Morrison. No. 942,338; Dec. 7; Sp. p. 655; Gaz. vol. 149; p. 105.  
 Measuring acceleration, Apparatus for. J. E. Boyd. No. 930,142; Aug. 3; Sp. p. 1099; Gaz. vol. 145; p. 178.  
 Measuring and computing apparatus, Self. E. Nicholas. No. 911,750; Feb. 9; Sp. p. 1434; Gaz. vol. 139; p. 267.  
 Measuring and delivering device, Skim-milk and whey. C. A. Johnson. No. 923,183; June 1; Sp. p. 134; Gaz. vol. 143; p. 22.  
 Measuring and filling apparatus. E. B. Ellicott. No. 933,964; Sept. 14; Sp. p. 2040; Gaz. vol. 146; p. 336.  
 Measuring and filling apparatus, Liquid. H. Adelson and C. W. Bliss. No. 920,890; May 4; Sp. p. 1628; Gaz. vol. 142; p. 260.  
 Measuring and indicating device. H. J. Marx. No. 922,931; May 25; Sp. p. 5856; Gaz. vol. 142; p. 1021.  
 Measuring and marking apparatus, Fabric. G. Brauchlin. No. 919,314; Apr. 27; Sp. p. 5055; Gaz. vol. 141; p. 878.  
 Measuring and packaging machine, Seed. F. W. Wild, Jr. No. 934,118; Sept. 14; Sp. p. 2348; Gaz. vol. 146; p. 385.  
 Measuring and sacking device. C. J. McDuffie. No. 919,917; Apr. 27; Sp. p. 6338; Gaz. vol. 141; p. 1083.  
 Measuring and weighing machine. B. P. Mulloy. No. 924,570; June 8; Sp. p. 3159; Gaz. vol. 143; p. 517.  
 Measuring apparatus. F. James. No. 909,188; Jan. 12; Sp. p. 1568; Gaz. vol. 138; p. 282.  
 Measuring apparatus. G. W. Chamberlain. No. 922,085; May 18; Sp. p. 4106; Gaz. vol. 142; p. 717.  
 Measuring apparatus. R. Hoyt. No. 928,658; July 20; Sp. p. 4070; Gaz. vol. 144; p. 709.  
 Measuring apparatus. G. A. Cowen. No. 941,359; Nov. 30; Sp. p. 6423; Gaz. vol. 148; p. 1095.  
 Measuring apparatus, Bin-. J. S. Duke. No. 919,139; Apr. 20; Sp. p. 4504; Gaz. vol. 141; p. 787.  
 Measuring apparatus, Fabric-. G. Brauchlin. No. 919,313; Apr. 27; Sp. p. 5052; Gaz. vol. 141; p. 877.  
 Measuring apparatus, Hat-frame-wire-. W. M. Jameson. No. 941,637; Nov. 30; Sp. p. 7008; Gaz. vol. 148; p. 1186.  
 Measuring apparatus, Liquid-. H. Peim. No. 921,654; May 11; Sp. p. 3215; Gaz. vol. 142; p. 549.  
 Measuring apparatus, Torsion-. W. H. Kenerson. No. 924,242; June 8; Sp. p. 2514; Gaz. vol. 143; p. 409.  
 Measuring apparatus, Whey-. D. Gray. No. 918,667; Apr. 20; Sp. p. 3544; Gaz. vol. 141; p. 632.  
 Measuring apparatus, Whey and milk. J. Livingston. No. 931,071; Aug. 17; Sp. p. 3055; Gaz. vol. 145; p. 535.  
 Measuring appliance, Angle-. A. König. No. 942,393; Dec. 7; Sp. p. 747; Gaz. vol. 149; p. 122.  
 Measuring attachment for cloth-folding machines. K. von Thigpen. No. 942,685; Dec. 7; Sp. p. 1349; Gaz. vol. 149; p. 222.  
 Measuring attachment for micrometer-calipers. C. Bosworth. No. 925,280; June 15; Sp. p. 4613; Gaz. vol. 143; p. 785.  
 Measuring attachment for scissors. J. T. Tipperly. No. 944,925; Dec. 28; Sp. p. 6234; Gaz. vol. 149; p. 1071.  
 Measuring-cover for cans. R. Hirsch. No. 928,052; July 13; Sp. p. 2810; Gaz. vol. 144; p. 478.  
 Measuring device. S. N. Krawchenko. No. 933,764; Sept. 14; Sp. p. 1644; Gaz. vol. 146; p. 271.  
 Measuring device. L. Maisel. No. 933,773; Sept. 14; Sp. p. 1656; Gaz. vol. 146; p. 274.  
 Measuring device. J. P. Hansen. No. 934,167; Sept. 14; Sp. p. 2450; Gaz. vol. 146; p. 403.  
 Measuring device. J. Hood. No. 941,253; Nov. 23; Sp. p. 6193; Gaz. vol. 148; p. 1039.  
 Measuring device, Chest-expansion-. C. W. Kennedy, E. W. Carlson, and N. C. Jeffes. No. 940,256; Nov. 16; Sp. p. 3999; Gaz. vol. 148; p. 680.  
 Measuring device, Dress-. N. E. Jaeger. No. 928,454; July 20; Sp. p. 3654; Gaz. vol. 144; p. 643.  
 Measuring device for window-shade machines. E. O. Engberg. No. 936,103; Oct. 5; Sp. p. 1061; Gaz. vol. 147; p. 162.  
 Measuring device, Glove-. W. N. Ketchum. No. 933,992; Sept. 14; Sp. p. 2091; Gaz. vol. 146; p. 345.  
 Measuring device, Liquid-. P. J. Peterson. No. 919,943; Apr. 27; Sp. p. 6379; Gaz. vol. 141; p. 1090.  
 Measuring device, Liquid-. H. Adelson and C. W. Bliss. No. 920,891; May 4; Sp. p. 1631; Gaz. vol. 142; p. 261.  
 Measuring device, Liquid-. A. Bruce. No. 933,528; Sept. 7; Sp. p. 1172; Gaz. vol. 146; p. 169.  
 Measuring device, Lumber-. W. B. Woodruff. No. 920,803; May 4; Sp. p. 1440; Gaz. vol. 142; p. 233.  
 Measuring device, Powder-. A. A. Rickert. No. 910,955; Jan. 26; Sp. p. 5142; Gaz. vol. 138; p. 926.  
 Measuring device, Rotary. S. Irino. No. 919,016; Apr. 20; Sp. p. 4275; Gaz. vol. 141; p. 748.  
 Measuring device, Skirt-. E. F. Stenman. No. 927,819; July 13; Sp. p. 2325; Gaz. vol. 144; p. 401.  
 Measuring device, Skirt-. C. W. Smith. No. 943,278; Dec. 14; Sp. p. 2681; Gaz. vol. 149; p. 453.  
 Measuring device, Tailor's. G. S. Tiffany. No. 932,649; Aug. 31; Sp. p. 6401; Gaz. vol. 145; p. 1104.  
 Measuring device, Water-. H. K. and H. L. Fairall and J. R. Cook. No. 918,834; Apr. 20; Sp. p. 3896; Gaz. vol. 141; p. 687.  
 Measuring fabrics and the like, Apparatus for. S. Jacobsen. No. 944,870; Dec. 28; Sp. p. 6130; Gaz. vol. 149; p. 1054.  
 Measuring-glass. A. A. Kent. No. 922,152; May 18; Sp. p. 4226; Gaz. vol. 142; p. 738.  
 Measuring-glass. A. Kipp. No. 925,582; June 22; Sp. p. 5200; Gaz. vol. 143; p. 915.  
 Measuring granular materials, Device for. O. D. Havard. No. 943,405; Dec. 14; Sp. p. 2942; Gaz. vol. 149; p. 496.  
 Measuring implement, Combination. E. C. Patterson. No. 912,607; Feb. 16; Sp. p. 3280; Gaz. vol. 139; p. 588.  
 Measuring instrument. H. Darwin. No. 910,509; Jan. 26; Sp. p. 4262; Gaz. vol. 138; p. 783.  
 Measuring instrument. J. J. Jones. No. 911,729; Feb. 9; Sp. p. 1402; Gaz. vol. 139; p. 261.  
 Measuring instrument. E. Schattner. No. 912,181; Feb. 9; Sp. p. 2349; Gaz. vol. 139; p. 406.  
 Measuring instrument. C. Sprigg. No. 917,179; Apr. 6; Sp. p. 440; Gaz. vol. 141; p. 77.  
 Measuring instrument. E. Hiergesell. No. 920,868; May 4; Sp. p. 1587; Gaz. vol. 142; p. 253.  
 Measuring instrument. H. L. Van Valkenburg. No. 922,362; May 18; Sp. p. 4636; Gaz. vol. 142; p. 805.  
 Measuring instrument. E. Thomson. No. 925,055; June 15; Sp. p. 4196; Gaz. vol. 143; p. 714.  
 Measuring instrument. I. L. Davenport. No. 925,082; June 15; Sp. p. 4247; Gaz. vol. 143; p. 723.  
 Measuring instrument. J. Green. No. 925,807; June 22; Sp. p. 5712; Gaz. vol. 143; p. 989.  
 Measuring instrument. A. Giannousis. No. 927,523; July 13; Sp. p. 1690; Gaz. vol. 144; p. 301.  
 Measuring instrument. O. Pappano. No. 929,477; July 27; Sp. p. 5747; Gaz. vol. 144; p. 1009.  
 Measuring instrument. M. Picard. No. 931,475; Aug. 17; Sp. p. 3910; Gaz. vol. 145; p. 674.  
 Measuring instrument. H. L. E. Krueger. No. 931,774; Aug. 24; Sp. p. 4559; Gaz. vol. 145; p. 791.  
 Measuring instrument. W. P. Phenix. No. 936,157; Oct. 5; Sp. p. 1171; Gaz. vol. 147; p. 178.  
 Measuring instrument. A. H. Lucas. No. 936,731; Oct. 12; Sp. p. 2376; Gaz. vol. 147; p. 395.  
 Measuring instrument. H. R. Harris. No. 937,302; Oct. 19; Sp. p. 3541; Gaz. vol. 147; p. 612.  
 Measuring instrument. O. W. Dolph. No. 940,439; Nov. 16; Sp. p. 4441; Gaz. vol. 148; p. 743.  
 Measuring instrument, Electric. E. Thomson. No. 927,191; July 6; Sp. p. 1017; Gaz. vol. 144; p. 165.  
 Measuring instrument, Electric. A. H. Hoyt. No. 940,318; Nov. 16; Sp. p. 4157; Gaz. vol. 148; p. 701.  
 Measuring instrument, Electric. A. H. Hoyt. No. 940,319; Nov. 16; Sp. p. 4158; Gaz. vol. 148; p. 701.  
 Measuring instrument, Electrical. C. Wiler. No. 915,257; Mar. 16; Sp. p. 3317; Gaz. vol. 140; p. 579.  
 Measuring instrument, Electrical. E. Thomson. No. 917,187; Apr. 6; Sp. p. 458; Gaz. vol. 141; p. 80.  
 Measuring instrument, Electrical. W. J. Lloyd and L. Wilson. No. 925,113; June 15; Sp. p. 4307; Gaz. vol. 143; p. 734.  
 Measuring instrument, Electrical. T. W. Varley. No. 944,061; Dec. 21; Sp. p. 4361; Gaz. vol. 149; p. 752.  
 Measuring instrument having an electromagnet brake. O. Schulze. No. 937,099; Oct. 19; Sp. p. 3106; Gaz. vol. 147; p. 546.  
 Measuring instrument, Lens-. A. H. Michelsen. No. 917,097; Apr. 6; Sp. p. 276; Gaz. vol. 141; p. 50.  
 Measuring instrument, Optical distance-. F. Dubenhorst. No. 941,503; Nov. 30; Sp. p. 6746; Gaz. vol. 148; p. 1142.  
 Measuring instrument recorder, Electrical-. C. B. Thwing. No. 923,606; June 1; Sp. p. 1114; Gaz. vol. 143; p. 170.  
 Measuring-instrument tubular spring. W. Strube. No. 912,755; Feb. 16; Sp. p. 3634; Gaz. vol. 139; p. 640.  
 Measuring instruments, Magnet-support for electrical. J. H. Zimmermann. No. 921,054; May 11; Sp. p. 1946; Gaz. vol. 142; p. 346.  
 Measuring last tape. G. E. Belcher. No. 913,454; Feb. 23; Sp. p. 5009; Gaz. vol. 139; p. 895.  
 Measuring line. G. H. Prier. No. 909,668; Jan. 12; Sp. p. 2488; Gaz. vol. 138; p. 441.  
 Measuring machine, Automatic. E. Whitten, Jr., and A. A. Harrell. No. 943,854; Dec. 21; Sp. p. 3914; Gaz. vol. 149; p. 681.  
 Measuring machine, Cloth-. C. H. Lantz. No. 942,084; Dec. 7; Sp. p. 99; Gaz. vol. 149; p. 17.  
 Measuring machine, Cloth-. B. D. Wight. No. 944,161; Dec. 21; Sp. p. 4574; Gaz. vol. 149; p. 785.  
 Measuring machine, Hopper-. A. del Castillo y Romero. No. 932,754; Aug. 31; Sp. p. 6618; Gaz. vol. 145; p. 1140.  
 Measuring machine, Rope-. A. Hally. No. 916,148; Mar. 23; Sp. p. 5084; Gaz. vol. 140; p. 900.  
 Measuring, mixing, and dispensing apparatus, Liquid. J. P. Muth. No. 921,870; May 18; Sp. p. 2672; Gaz. vol. 142; p. 647.  
 Measuring or indicating instrument. C. H. Veeder. No. 937,015; Oct. 12; Sp. p. 2934; Gaz. vol. 147; p. 488.  
 Measuring power, Method of and apparatus for. J. Harris. No. 925,180; June 15; Sp. p. 4432; Gaz. vol. 143; p. 757.  
 Measuring roll, Non-recount fabric-. W. W. Birnstock. No. 913,676; Feb. 23; Sp. p. 5499; Gaz. vol. 139; p. 968.  
 Measuring speed of moving craft or vehicles, Device for. E. H. Fahrney. No. 919,707; Apr. 27; Sp. p. 5895; Gaz. vol. 141; p. 1012.  
 Measuring-stand, Revolving. C. E. Thies. No. 909,258; Jan. 12; Sp. p. 1685; Gaz. vol. 138; p. 304.



*Alphabetical list of inventions—Continued.*

- Measuring surface areas, Machine for. L. O. Ramsdell. No. 931,144; Aug. 17; Sp. p. 3212; Gaz. vol. 145; p. 560.
- Measuring tank, Liquid-. T. L. Smith and E. W. Meyer. No. 940,206; Nov. 16; Sp. p. 3906; Gaz. vol. 148; p. 663.
- Measuring the axial thrust of driven shafts, Device for. C. Thämer. No. 920,218; May 4; Sp. p. 255; Gaz. vol. 142; p. 41.
- Measuring the humidity in or determining the evaporating power of the air, Apparatus for. M. M. Hastings. No. 911,875; Feb. 9; Sp. p. 1658; Gaz. vol. 139; p. 307.
- Measuring the weight and other qualities of a material. G. C. Chaney. No. 921,083; May 11; Sp. p. 2021; Gaz. vol. 142; p. 356.
- Measuring, winding, and rewinding machine, Cloth. A. Knobel. No. 924,998; June 15; Sp. p. 4091; Gaz. vol. 143; p. 696.
- Meat-chopper. H. C. Sander. No. 930,799; Aug. 10; Sp. p. 2411; Gaz. vol. 145; p. 418.
- Meat-clamp. B. W. Jackson. No. 923,357; June 1; Sp. p. 572; Gaz. vol. 143; p. 82.
- Meat-conveyer. W. A. Guenther. No. 941,248; Nov. 23; Sp. p. 6183; Gaz. vol. 148; p. 1037.
- Meat, Curing. J. C. Lincoln. No. 930,772; Aug. 10; Sp. p. 2363; Gaz. vol. 145; p. 409.
- Meat curing and smoking apparatus. L. Bloomberg. No. 935,836; Oct. 5; Sp. p. 617; Gaz. vol. 147; p. 89.
- Meat-cutter. A. A. Warner. No. 908,714; Jan. 5; Sp. p. 605; Gaz. vol. 138; p. 94.
- Meat-cutter. C. W. Kuhn. No. 928,389; July 20; Sp. p. 3521; Gaz. vol. 144; p. 622.
- Meat-cutter. F. Bartz. No. 930,920; Aug. 10; Sp. p. 2676; Gaz. vol. 145; p. 458.
- Meat-cutter. F. Bartz. No. 930,921; Aug. 10; Sp. p. 2678; Gaz. vol. 145; p. 458.
- Meat-cutters, Cutting-plate for. T. Williams. No. 931,828; Aug. 24; Sp. p. 4665; Gaz. vol. 145; p. 808.
- Meat-cutting machine. W. G. Doty. No. 913,879; Mar. 2; Sp. p. 443; Gaz. vol. 140; p. 73.
- Meat-debberizing apparatus. G. W. Wemple. No. 923,742; June 1; Sp. p. 1373; Gaz. vol. 143; p. 214.
- Meat, Hand-press for raw. A. Petit and G. de Berchoux. No. 934,209; Sept. 14; Sp. p. 2523; Gaz. vol. 146; p. 416.
- Meat-hanger. E. L. Hite. No. 937,679; Oct. 19; Sp. p. 4320; Gaz. vol. 147; p. 736.
- Meat-hanger. M. J. Condell, H. C. Beck, and F. H. Dannenberg. No. 940,924; Nov. 23; Sp. p. 5477; Gaz. vol. 148; p. 929.
- Meat-hanging device. J. E. Mowinkel. No. 928,530; July 20; Sp. p. 3808; Gaz. vol. 144; p. 667.
- Meat-holder. C. G. Blair. No. 930,722; Aug. 10; Sp. p. 2258; Gaz. vol. 145; p. 392.
- Meat-holding device. J. W. Breedlove. No. 943,910; Dec. 21; Sp. p. 4041; Gaz. vol. 149; p. 700.
- Meat into slices, Machine for cutting. F. Graff. No. 943,929; Dec. 21; Sp. p. 4083; Gaz. vol. 149; p. 707.
- Meat-labeling machine. R. A. Pearson. No. 911,676; Feb. 9; Sp. p. 1303; Gaz. vol. 139; p. 243.
- Meat, &c., Machine for larding. D. Dechert. No. 925,162; June 15; Sp. p. 4400; Gaz. vol. 143; p. 751.
- Meat mangle or tender. C. McBratney. No. 937,322; Oct. 19; Sp. p. 3579; Gaz. vol. 147; p. 618.
- Meat, Preserving. R. Emmerich. No. 909,172; Jan. 12; Sp. p. 1550; Gaz. vol. 138; p. 277.
- Meat products, Smoking and curing. M. Brand. No. 928,900; July 20; Sp. p. 4545; Gaz. vol. 144; p. 792.
- Meat-rack. L. I. Berkowitz. No. 911,567; Feb. 9; Sp. p. 1060; Gaz. vol. 139; p. 207.
- Meat-salter. F. Hackmann and A. A. Childs. No. 921,980; May 18; Sp. p. 3896; Gaz. vol. 142; p. 681.
- Meat-skinning machine. J. O. Williar. No. 935,181; Sept. 28; Sp. p. 4441; Gaz. vol. 146; p. 791.
- Meat-slicer. D. L. Appelberry. No. 915,532; Mar. 16; Sp. p. 3849; Gaz. vol. 140; p. 669.
- Meat slicer and cutter, Combined. J. Winkelmeyer. No. 908,826; Jan. 5; Sp. p. 822; Gaz. vol. 138; p. 129.
- Meat-slicing machine. C. J. Lensvelt. No. 944,797; Dec. 28; Sp. p. 5995; Gaz. vol. 149; p. 1028.
- Meat-slicing machines, Device for sharpening the rotary circular knives of. W. A. van Berkel. No. 916,229; Mar. 23; Sp. p. 5238; Gaz. vol. 140; p. 925.
- Meat-tenderer. J. O. King and N. E. Rubert. No. 921,006; May 11; Sp. p. 1854; Gaz. vol. 142; p. 329.
- Meat-tenderer. M. E. French. No. 931,590; Aug. 17; Sp. p. 4113; Gaz. vol. 145; p. 708.
- Meat-tenderer. W. H. Humeston. No. 942,448; Dec. 7; Sp. p. 867; Gaz. vol. 149; p. 141.
- Meat-tenderer and vegetable-chopper. M. H. Tyler. No. 935,710; Oct. 5; Sp. p. 158; Gaz. vol. 147; p. 30.
- Mechanical brake. D. C. Schultz. No. 912,325; Feb. 16; Sp. p. 2688; Gaz. vol. 139; p. 492.
- Mechanical drier. W. M. Cummer. No. 934,712; Sept. 21; Sp. p. 3498; Gaz. vol. 146; p. 609.
- Mechanical motor. W. J. Comfort. No. 914,926; Mar. 9; Sp. p. 2649; Gaz. vol. 140; p. 444.
- Mechanical movement. W. F. Zimmermann. No. 909,126; Jan. 5; Sp. p. 1431; Gaz. vol. 138; p. 229.
- Mechanical movement. A. W. Redin. No. 910,580; Jan. 26; Sp. p. 4411; Gaz. vol. 138; p. 807.
- Mechanical movement. W. H. Gaskill. No. 912,108; Feb. 9; Sp. p. 2222; Gaz. vol. 139; p. 384.
- Mechanical movement. J. D. A. Johnson. No. 913,145; Feb. 23; Sp. p. 4378; Gaz. vol. 139; p. 791.
- Mechanical movement. I. C. Rust. No. 913,918; Mar. 2; Sp. p. 539; Gaz. vol. 140; p. 87.
- Mechanical movement. B. Huse. No. 915,181; Mar. 16; Sp. p. 3163; Gaz. vol. 140; p. 555.
- Mechanical movement. W. S. Oswald. No. 915,306; Mar. 16; Sp. p. 3409; Gaz. vol. 140; p. 595.
- Mechanical movement. J. D. A. Johnson. No. 915,606; Mar. 16; Sp. p. 4022; Gaz. vol. 140; p. 694.
- Mechanical movement. J. F. Cooley. No. 916,914; Mar. 30; Sp. p. 6575; Gaz. vol. 140; p. 1172.
- Mechanical movement. F. H. Richards. No. 920,651; May 4; Sp. p. 1121; Gaz. vol. 142; p. 183.
- Mechanical movement. D. O. Makean. No. 921,424; May 11; Sp. p. 2738; Gaz. vol. 142; p. 471.
- Mechanical movement. A. Sears. No. 921,629; May 11; Sp. p. 3159; Gaz. vol. 142; p. 540.
- Mechanical movement. W. L. Gass and H. Jackson. No. 921,971; May 18; Sp. p. 3878; Gaz. vol. 142; p. 679.
- Mechanical movement. P. T. McNally. No. 922,316; May 18; Sp. p. 4548; Gaz. vol. 142; p. 790.
- Mechanical movement. R. J. Forman. No. 922,467; May 25; Sp. p. 4883; Gaz. vol. 142; p. 870.
- Mechanical movement. O. H. Slafter. No. 922,532; May 25; Sp. p. 5014; Gaz. vol. 142; p. 891.
- Mechanical movement. D. O. Makean. No. 923,191; June 1; Sp. p. 149; Gaz. vol. 143; p. 24.
- Mechanical movement. W. S. Taylor, Jr. No. 924,509; June 8; Sp. p. 3035; Gaz. vol. 143; p. 497.
- Mechanical movement. R. Shedenhelm. No. 925,138; June 15; Sp. p. 4352; Gaz. vol. 143; p. 742.
- Mechanical movement. F. H. Richards. No. 925,383; June 15; Sp. p. 4799; Gaz. vol. 143; p. 820.
- Mechanical movement. D. K. Wilson. No. 925,547; June 22; Sp. p. 5127; Gaz. vol. 143; p. 903.
- Mechanical movement. A. P. Crell. No. 925,564; June 22; Sp. p. 5158; Gaz. vol. 143; p. 909.
- Mechanical movement. T. V. Buckwalter. No. 926,238; June 29; Sp. p. 6622; Gaz. vol. 143; p. 1168.
- Mechanical movement. J. Allingham. No. 931,713; Aug. 24; Sp. p. 4426; Gaz. vol. 145; p. 771.
- Mechanical movement. B. Huse. No. 933,904; Sept. 14; Sp. p. 1918; Gaz. vol. 146; p. 317.
- Mechanical movement. J. E. Noepel. No. 937,169; Oct. 19; Sp. p. 3267; Gaz. vol. 147; p. 569.
- Mechanical movement. G. W. Hart. No. 939,193; Nov. 2; Sp. p. 1592; Gaz. vol. 148; p. 257.
- Mechanical movement. C. A. Tower. No. 940,753; Nov. 23; Sp. p. 5125; Gaz. vol. 148; p. 873.
- Mechanical movement. G. A. Anderson. No. 941,003; Nov. 23; Sp. p. 5652; Gaz. vol. 148; p. 955.
- Mechanical movement. R. T. Johnston. No. 941,639; Nov. 30; Sp. p. 7010; Gaz. vol. 148; p. 1186.
- Mechanical movement. R. A. Schoenberg. No. 943,274; Dec. 14; Sp. p. 2671; Gaz. vol. 149; p. 452.
- Mechanical movement. W. S. Allan. No. 944,121; Dec. 21; Sp. p. 4499; Gaz. vol. 149; p. 772.
- Mechanical movement. F. L. Temple. No. 944,978; Dec. 28; Sp. p. 6341; Gaz. vol. 149; p. 1088.
- Mechanical movement, Alternating. A. P. Crell. No. 930,271; Aug. 3; Sp. p. 1315; Gaz. vol. 145; p. 217.
- Mechanic's case. W. F. Shrum. No. 913,569; Feb. 23; Sp. p. 5273; Gaz. vol. 139; p. 933.
- Medical apparatus for injecting purposes. K. Krautschnider. No. 913,297; Feb. 23; Sp. p. 4684; Gaz. vol. 139; p. 841.
- Medical appliance, Electrical. B. R. Davenport. No. 943,918; Dec. 21; Sp. p. 4062; Gaz. vol. 149; p. 703.
- Medical electrical device for medical and therapeutical purposes. F. A. Ligowsky. No. 910,930; Jan. 26; Sp. p. 5092; Gaz. vol. 138; p. 918.
- Medical implement. W. M. Parks and B. B. Cross. No. 912,024; Feb. 9; Sp. p. 2050; Gaz. vol. 139; p. 357.
- Medical irrigator. H. H. Pfeifer and F. M. Towles. No. 935,227; Sept. 28; Sp. p. 4525; Gaz. vol. 146; p. 806.
- Medicament for diseases of the mucous membrane. W. Loose. No. 944,738; Dec. 28; Sp. p. 5841; Gaz. vol. 149; p. 1009.
- Medicament, Producing a. W. D. Neel. No. 925,590; June 22; Sp. p. 5219; Gaz. vol. 143; p. 918.
- Medicaments, Atomizing solid. G. Fusch. No. 928,038; July 13; Sp. p. 2776; Gaz. vol. 144; p. 473.
- Medicine-cabinet. J. W. Hunt. No. 924,468; June 8; Sp. p. 2953; Gaz. vol. 143; p. 483.
- Medicine, Commercial package of. J. K. Lilly. No. 929,610; July 27; Sp. p. 6010; Gaz. vol. 144; p. 1052.
- Medicine-dispenser. F. M. Beverly. No. 941,489; Nov. 30; Sp. p. 6718; Gaz. vol. 148; p. 1138.
- Medicine-timer. A. J. Schritfeld. No. 927,007; July 6; Sp. p. 625; Gaz. vol. 144; p. 102.
- Medicine, Veterinary. O. G. Winckler. No. 917,507; Apr. 6; Sp. p. 1075; Gaz. vol. 141; p. 188.
- Megaphone. H. Meredith-Jones. No. 943,252; Dec. 14; Sp. p. 2624; Gaz. vol. 149; p. 444.
- Megaphone and horn, Combination. C. W. Wolf. No. 914,472; Mar. 9; Sp. p. 1727; Gaz. vol. 140; p. 296.
- Melon-seeder. J. D. Whitel. No. 917,824; Apr. 13; Sp. p. 1734; Gaz. vol. 141; p. 319.
- Melting apparatus. W. M. Carr. No. 929,831; Aug. 3; Sp. p. 427; Gaz. vol. 145; p. 71.
- Melting apparatus. W. M. Carr and C. H. Speer. No. 936,759; Oct. 12; Sp. p. 2427; Gaz. vol. 147; p. 404.
- Melting-furnace. J. E. Hewitt. No. 918,150; Apr. 13; Sp. p. 2414; Gaz. vol. 141; p. 432.
- Melting-furnace and using the same. W. M. Carr and C. H. Speer. No. 936,758; Oct. 12; Sp. p. 2422; Gaz. vol. 147; p. 404.
- Melting-furnace, Crucible. C. Smerling. No. 914,609; Mar. 9; Sp. p. 2002; Gaz. vol. 140; p. 342.



*Alphabetical list of inventions—Continued.*

- Memorandum device. S. Kahn. No. 916,561; Mar. 30; Sp. p. 5918; Gaz. vol. 140; p. 1062.  
 Merchandise and book case, Sectional or unit. H. Trost. No. 934,239; Sept. 14; Sp. p. 2582; Gaz. vol. 146; p. 427.  
 Merchandise-hanger. S. S. Weaver. No. 914,469; Mar. 9; Sp. p. 1721; Gaz. vol. 140; p. 295.  
 Merchandise-wrapper. N. J. Goodman. No. 917,938; Apr. 13; Sp. p. 1970; Gaz. vol. 141; p. 358.  
 Mercuric salts with hexamethylene-tetramin, Manufacturing soluble compounds of. A. Busch. No. 930,836; Aug. 10; Sp. p. 2488; Gaz. vol. 145; p. 431.  
 Mercury-circulating device. J. Whiting. No. 938,191; Oct. 26; Sp. p. 5435; Gaz. vol. 147; p. 928.  
 Mercury-meter. F. Holden. No. 924,989; June 15; Sp. p. 4070; Gaz. vol. 143; p. 692.  
 Merry-go-round. J. A. De Vito. No. 915,276; Mar. 16; Sp. p. 3348; Gaz. vol. 140; p. 585.  
 Merry-go-round. B. F. Fitch. No. 924,155; June 8; Sp. p. 2313; Gaz. vol. 143; p. 379.  
 Merry-go-round. H. C. Draper. No. 927,508; July 13; Sp. p. 1651; Gaz. vol. 144; p. 297.  
 Merry-go-round. A. A. Walrath. No. 929,523; July 27; Sp. p. 5825; Gaz. vol. 144; p. 1023.  
 Merry-go-round. F. A. Dyson. No. 935,003; Sept. 28; Sp. p. 4086; Gaz. vol. 146; p. 732.  
 Merry-go-round. N. M. Powell and J. L. Miller. No. 942,010; Nov. 30; Sp. p. 7799; Gaz. vol. 149; p. 1313.  
 Merry-go-round. C. W. Ott. No. 942,041; Nov. 30; Sp. p. 7853; Gaz. vol. 149; p. 1323.  
 Merry-go-round. G. Schmid. No. 942,937; Dec. 14; Sp. p. 1939; Gaz. vol. 149; p. 337.  
 Merry-go-round. J. and J. Setecka. No. 943,276; Dec. 14; Sp. p. 2676; Gaz. vol. 149; p. 453.  
 Merry-go-round, Aquatic. H. E. Riehl. No. 925,840; June 22; Sp. p. 5779; Gaz. vol. 143; p. 1000.  
 Message-holder. D. Cosby. No. 909,870; Jan. 19; Sp. p. 2901; Gaz. vol. 138; p. 540.  
 Message-recording apparatus. F. A. Skelton. No. 938,441; Oct. 26; Sp. p. 5978; Gaz. vol. 147; p. 1013.  
 Messenger-hanger, C. E. Cook. No. 938,216; Oct. 26; Sp. p. 5484; Gaz. vol. 147; p. 937.  
 Metal and producing the same, Clad. J. F. Monnot. No. 929,687; Aug. 3; Sp. p. 90; Gaz. vol. 145; p. 18.  
 Metal articles by pressure through dies, Apparatus for making. J. Remmen. No. 927,076; July 6; Sp. p. 795; Gaz. vol. 144; p. 127.  
 Metal articles, Making clad-. J. F. Monnot. No. 927,371; July 6; Sp. p. 1331; Gaz. vol. 144; p. 222.  
 Metal bars by twisting, Machine for cutting. H. H. Jensen. No. 913,013; Feb. 23; Sp. p. 4113; Gaz. vol. 139; p. 746.  
 Metal-bearing material, Treating precious-. S. S. Sørensen and G. C. Westby. No. 914,680; Mar. 9; Sp. p. 2166; Gaz. vol. 140; p. 363.  
 Metal bedsteads, Detachable caster for. H. A. Palmer. No. 918,081; Apr. 13; Sp. p. 2281; Gaz. vol. 141; p. 409.  
 Metal bedsteads, Detachable caster for. H. A. Palmer. No. 918,082; Apr. 13; Sp. p. 2282; Gaz. vol. 141; p. 410.  
 Metal bedsteads, Detachable caster for. H. A. Palmer. No. 918,083; Apr. 13; Sp. p. 2284; Gaz. vol. 141; p. 410.  
 Metal bending and forging machine. J. R. Blakeslee. No. 929,073; July 27; Sp. p. 4903; Gaz. vol. 144; p. 875.  
 Metal-bending machine. T. Kardong. No. 930,969; Aug. 10; Sp. p. 2783; Gaz. vol. 145; p. 472.  
 Metal, Bluing. H. E. Sheldon. No. 936,821; Oct. 12; Sp. p. 2544; Gaz. vol. 147; p. 425.  
 Metal bodies, Device for severing. E. Wiss. No. 932,740; Aug. 31; Sp. p. 6589; Gaz. vol. 145; p. 1135.  
 Metal bodies, Making compound. J. F. Monnot. No. 916,471; Mar. 30; Sp. p. 5720; Gaz. vol. 140; p. 1032.  
 Metal bodies, Producing compound. J. F. Monnot. No. 910,564; Jan. 26; Sp. p. 4377; Gaz. vol. 138; p. 802.  
 Metal body and producing same, Compound. J. F. Monnot. No. 909,924; Jan. 19; Sp. p. 3015; Gaz. vol. 138; p. 559.  
 Metal body and producing same, Compound. J. F. Monnot. No. 929,778; Aug. 3; Sp. p. 312; Gaz. vol. 145; p. 53.  
 Metal-bound box. C. P. Flora. No. 918,839; Apr. 20; Sp. p. 3905; Gaz. vol. 141; p. 688.  
 Metal box. G. Klenk. No. 911,598; Feb. 9; Sp. p. 1123; Gaz. vol. 139; p. 217.  
 Metal box. F. O. Buschbaum. No. 933,229; Sept. 7; Sp. p. 451; Gaz. vol. 146; p. 70.  
 Metal box. G. H. Paine. No. 933,847; Sept. 14; Sp. p. 1811; Gaz. vol. 146; p. 299.  
 Metal box. G. Klenk and J. F. Fink. (Reissue.) No. 13,038; Nov. 9; Sp. p. 3327; Gaz. vol. 148; p. 550.  
 Metal-box edges, Machine for trimming. F. E. Adams. No. 925,070; June 15; Sp. p. 4218; Gaz. vol. 143; p. 719.  
 Metal box or case, Folding. F. Treischman. No. 938,916; Nov. 2; Sp. p. 1025; Gaz. vol. 148; p. 162.  
 Metal-casting process and apparatus. T. Critchlow. No. 917,257; Apr. 6; Sp. p. 614; Gaz. vol. 141; p. 105.  
 Metal castings, Manufacture of. P. Bohin. No. 930,828; Aug. 10; Sp. p. 2471; Gaz. vol. 145; p. 428.  
 Metal chlad and apparatus therefor, Process of melting. W. F. Prince. No. 935,686; Oct. 5; Sp. p. 135; Gaz. vol. 147; p. 22.  
 Metal, Clad. J. F. Monnot. No. 927,372; July 6; Sp. p. 1337; Gaz. vol. 144; p. 222.  
 Metal cleaning, polishing, and plating compound. M. Curtin. No. 912,081; Feb. 9; Sp. p. 2170; Gaz. vol. 139; p. 375.  
 Metal coating. G. H. Clamer. No. 909,869; Jan. 19; Sp. p. 2901; Gaz. vol. 138; p. 539.  
 Metal-coating apparatus. H. Roberts. No. 915,480; Mar. 16; Sp. p. 3750; Gaz. vol. 140; p. 652.  
 Metal-coating apparatus. H. Roberts. No. 917,662; Apr. 6; Sp. p. 1356; Gaz. vol. 141; p. 239.  
 Metal-coating apparatus. H. M. Huxley. No. 928,385; July 20; Sp. p. 3515; Gaz. vol. 144; p. 621.  
 Metal-coiling machine. E. O. Goss. No. 927,037; July 6; Sp. p. 705; Gaz. vol. 144; p. 112.  
 Metal, Composite. J. G. Mellen. No. 936,339; Oct. 12; Sp. p. 1534; Gaz. vol. 147; p. 263.  
 Metal construction. W. P. Lawrence. No. 922,919; May 25; Sp. p. 5829; Gaz. vol. 142; p. 1017.  
 Metal-crimping machine. A. Johnston. No. 944,559; Dec. 28; Sp. p. 5460; Gaz. vol. 149; p. 948.  
 Metal-cutting apparatus. N. H. Davis. No. 923,954; June 8; Sp. p. 1882; Gaz. vol. 143; p. 314.  
 Metal-cutting shears. J. O. Charpentier. No. 938,122; Oct. 26; Sp. p. 5279; Gaz. vol. 147; p. 903.  
 Metal-cutting tools, Rolled-metal bar for. E. J. Poole. No. 933,338; Sept. 7; Sp. p. 691; Gaz. vol. 146; p. 107.  
 Metal-depositing apparatus. J. K. Reynard. No. 929,017; July 27; Sp. p. 4794; Gaz. vol. 144; p. 857.  
 Metal disks, Device for straightening. O. G. Rieske. No. 921,739; May 18; Sp. p. 3384; Gaz. vol. 142; p. 603.  
 Metal-drawing press. H. C. Hunter. No. 929,594; July 27; Sp. p. 5948; Gaz. vol. 144; p. 1046.  
 Metal, Expanded. H. E. Marks. No. 934,081; Sept. 14; Sp. p. 2272; Gaz. vol. 146; p. 372.  
 Metal expanding machine, Cut and corrugated. H. Hill. No. 919,166; Apr. 20; Sp. p. 4545; Gaz. vol. 141; p. 795.  
 Metal fabric, Expanded-. N. E. Clark. No. 930,350; Aug. 10; Sp. p. 1468; Gaz. vol. 145; p. 268.  
 Metal filaments, Treating. C. T. Fuller. No. 929,578; July 7; Sp. p. 5922; Gaz. vol. 144; p. 1041.  
 Metal, Forming expanded. W. H. Cooley. No. 909,064; Jan. 5; Sp. p. 1287; Gaz. vol. 138; p. 207.  
 Metal, Forming expanded. T. H. Kane. No. 920,152; May 4; Sp. p. 118; Gaz. vol. 142; p. 18.  
 Metal, Forming expanded. W. H. Cooley. No. 942,309; Dec. 7; Sp. p. 600; Gaz. vol. 149; p. 95.  
 Metal-forming machine. J. Uhri. No. 922,217; May 18; Sp. p. 4372; Gaz. vol. 142; p. 760.  
 Metal, Forming ribbed expanded. J. Kahn. No. 943,417; Dec. 14; Sp. p. 2964; Gaz. vol. 149; p. 500.  
 Metal-founding apparatus. F. P. Johnness. No. 911,244; Feb. 2; Sp. p. 442; Gaz. vol. 139; p. 76.  
 Metal frame. G. N. Baker. No. 911,195; Feb. 2; Sp. p. 337; Gaz. vol. 139; p. 59.  
 Metal from ore, Extracting. C. G. Collins. No. 919,129; Apr. 20; Sp. p. 4483; Gaz. vol. 141; p. 783.  
 Metal, Hardening and toughening. H. W. Partin. No. 937,263; Oct. 19; Sp. p. 3474; Gaz. vol. 147; p. 600.  
 Metal harness. W. A. Kuhlman. No. 909,612; Jan. 12; Sp. p. 2377; Gaz. vol. 138; p. 422.  
 Metal-heading machine. A. C. Campbell. No. 926,170; June 29; Sp. p. 6463; Gaz. vol. 143; p. 1145.  
 Metal hoop. J. W. Brainard. No. 938,205; Oct. 26; Sp. p. 5460; Gaz. vol. 147; p. 933.  
 Metal into a series of molds, Apparatus for pouring. W. Brüggmann. No. 929,547; July 27; Sp. p. 5869; Gaz. vol. 144; p. 1031.  
 Metal jacket, Corrugated-. T. S. Friend. No. 926,648; June 29; Sp. p. 7379; Gaz. vol. 143; p. 1301.  
 Metal ladle, Molten-. A. E. Maccoun and M. Killeen. No. 914,738; Mar. 9; Sp. p. 2292; Gaz. vol. 140; p. 383.  
 Metal locker. R. W. Jefferis. No. 917,869; Apr. 13; Sp. p. 1826; Gaz. vol. 141; p. 334.  
 Metal-melting cupola. W. J. Keep. No. 929,598; July 27; Sp. p. 5965; Gaz. vol. 144; p. 1048.  
 Metal, Method of and apparatus for forging. E. E. Slick. No. 915,232; Mar. 16; Sp. p. 3267; Gaz. vol. 140; p. 571.  
 Metal mold, Permanent two-part. R. A. Pittman. No. 928,151; July 13; Sp. p. 2979; Gaz. vol. 144; p. 509.  
 Metal molding. P. T. Kenny. No. 938,768; Nov. 2; Sp. p. 681; Gaz. vol. 143; p. 109.  
 Metal objects, Cutting. A. Tschemacher and A. Sturm. No. 934,235; Sept. 14; Sp. p. 2577; Gaz. vol. 146; p. 426.  
 Metal objects, Making compound. J. F. Monnot. No. 927,062; July 6; Sp. p. 766; Gaz. vol. 144; p. 121.  
 Metal objects, Producing coated. J. F. Monnot. No. 929,777; Aug. 3; Sp. p. 307; Gaz. vol. 145; p. 52.  
 Metal objects, Process and apparatus for producing compound. J. F. Monnot. No. 910,405; Jan. 19; Sp. p. 4031; Gaz. vol. 138; p. 724.  
 Metal on hollow articles, Electrodeposition of. E. Friedheim. No. 915,846; Mar. 23; Sp. p. 4517; Gaz. vol. 140; p. 802.  
 Metal parts, Means for uniting. J. C. Dawson. No. 928,947; July 27; Sp. p. 4645; Gaz. vol. 144; p. 833.  
 Metal, Permanent magnetic. S. E. Gertler. No. 936,530; Oct. 12; Sp. p. 1971; Gaz. vol. 147; p. 325.  
 Metal pieces, Apparatus for centering symmetrical. K. A. Soderstrom. No. 927,890; July 13; Sp. p. 2480; Gaz. vol. 144; p. 423.  
 Metal pieces, Joining. H. Goldschmidt. (Reissue.) No. 13,050; Dec. 7; Sp. p. 1778; Gaz. vol. 149; p. 286.  
 Metal pieces, Uniting. C. F. Jacobs. No. 933,459; Sept. 7; Sp. p. 968; Gaz. vol. 146; p. 146.  
 Metal pipe, Producing. G. D. Dorsey. No. 909,376; Jan. 12; Sp. p. 1918; Gaz. vol. 138; p. 342.  
 Metal pipes, Removing scale from. C. Thibodeau. No. 931,897; Aug. 24; Sp. p. 4803; Gaz. vol. 145; p. 829.  
 Metal-planer. H. Bertram. No. 912,063; Feb. 9; Sp. p. 2139; Gaz. vol. 139; p. 369.  
 Metal-planer. G. Kuwada. No. 934,078; Sept. 14; Sp. p. 2266; Gaz. vol. 146; p. 371.  
 Metal-planing machine. A. M. Powell. No. 934,837; Sept. 21; Sp. p. 3742; Gaz. vol. 146; p. 650.



*Alphabetical list of inventions—Continued.*

- Metal-planing machines, &c., Feed mechanism for. G. H. Benzon, Jr. No. 911,566; Feb. 9; Sp. p. 1059; Gaz. vol. 139; p. 207.  
 Metal-plate-bending machine. T. C. Scheld. No. 936,481; Oct. 12; Sp. p. 1872; Gaz. vol. 147; p. 309.  
 Metal-plate-edging machine. J. Fraser and T. Gray. No. 910,471; Jan. 19; Sp. p. 4172; Gaz. vol. 138; p. 746.  
 Metal plate or rail. J. H. Koon. No. 920,755; May 4; Sp. p. 1334; Gaz. vol. 142; p. 217.  
 Metal plates, Apparatus for pickling and washing. G. Mesta. No. 935,619; Sept. 28; Sp. p. 5330; Gaz. vol. 146; p. 935.  
 Metal plates, Apparatus for pressing parts of large dimensions from. M. A. Bourgeois. No. 938,816; Nov. 2; Sp. p. 787; Gaz. vol. 148; p. 126.  
 Metal plates, Machine for forming bars or rounds from. S. McCloud. No. 909,644; Jan. 12; Sp. p. 2439; Gaz. vol. 138; p. 433.  
 Metal plates, Machinery for upsetting the edges of rolled-. G. J. Hoskins. No. 917,765; Apr. 13; Sp. p. 1616; Gaz. vol. 141; p. 300.  
 Metal plates, Producing impressions on. C. N. and A. M. West. No. 916,236; Mar. 23; Sp. p. 5252; Gaz. vol. 140; p. 928.  
 Metal, Producing rods, tubes, wire, &c., direct from molten. A. H. Pehrson. No. 930,490; Aug. 10; Sp. p. 1742; Gaz. vol. 145; p. 314.  
 Metal, Reclamation of purified. W. C. Hyzer. No. 943,248; Dec. 14; Sp. p. 2616; Gaz. vol. 149; p. 443.  
 Metal, Reducing. H. S. Blackmore. No. 918,950; Apr. 20; Sp. p. 4157; Gaz. vol. 141; p. 726.  
 Metal-reducing machine. B. M. W. Hanson. No. 921,986; May 18; Sp. p. 3909; Gaz. vol. 142; p. 683.  
 Metal, Refining. J. H. Reid. No. 920,391; May 4; Sp. p. 618; Gaz. vol. 142; p. 98.  
 Metal reinforce. A. L. Johnson. No. 917,304; Apr. 6; Sp. p. 715; Gaz. vol. 141; p. 122.  
 Metal-ripping tool. P. Jensen. No. 930,292; Aug. 3; Sp. p. 1359; Gaz. vol. 145; p. 225.  
 Metal-rod-cutting machine. G. H. Scott. No. 936,572; Oct. 12; Sp. p. 2054; Gaz. vol. 147; p. 340.  
 Metal rods or bars, Apparatus for use in twisting. L. Hartel and L. Kissling. No. 942,322; Dec. 7; Sp. p. 626; Gaz. vol. 149; p. 100.  
 Metal salts, Forming. W. H. Allen. No. 910,982; Jan. 26; Sp. p. 5186; Gaz. vol. 138; p. 935.  
 Metal-sawing machine. C. A. Juengst. (Reissue.) No. 13,004; Aug. 10; Sp. p. 2920; Gaz. vol. 145; p. 491.  
 Metal-sawing machine. C. Napier. No. 935,395; Sept. 28; Sp. p. 4863; Gaz. vol. 146; p. 860.  
 Metal-severing device. E. Wiss. No. 932,739; Aug. 31; Sp. p. 6587; Gaz. vol. 145; p. 1135.  
 Metal-shaping apparatus. W. W. Bissell. No. 928,353; July 20; Sp. p. 3460; Gaz. vol. 144; p. 610.  
 Metal-shaping machine. P. W. Jones. No. 924,907; June 15; Sp. p. 3895; Gaz. vol. 143; p. 664.  
 Metal-shearing machine. F. W. Matthiessen, Jr. No. 921,861; May 18; Sp. p. 3656; Gaz. vol. 142; p. 644.  
 Metal-shearing machine. G. E. Roesch and F. F. Wright. No. 931,220; Aug. 17; Sp. p. 3376; Gaz. vol. 145; p. 586.  
 Metal-shears. L. E. Rice. No. 909,937; Jan. 19; Sp. p. 3040; Gaz. vol. 138; p. 563.  
 Metal-shears. G. Potstada. No. 939,627; Nov. 9; Sp. p. 2614; Gaz. vol. 148; p. 430.  
 Metal sheet-piling. M. W. Cluxton. No. 909,549; Jan. 12; Sp. p. 2252; Gaz. vol. 138; p. 400.  
 Metal sheet-piling (junction unit). M. W. Cluxton. No. 909,548; Jan. 12; Sp. p. 2250; Gaz. vol. 138; p. 400.  
 Metal sheet prepared for punching. J. R. Harbeck. No. 909,589; Jan. 12; Sp. p. 2333; Gaz. vol. 138; p. 414.  
 Metal sheets, Apparatus for bluing. H. E. Sheldon. No. 932,587; Aug. 31; Sp. p. 6265; Gaz. vol. 145; p. 1083.  
 Metal sheets, Machine for shearing. G. B. Johnson. No. 941,199; Nov. 23; Sp. p. 6085; Gaz. vol. 148; p. 1021.  
 Metal sheets, Manufacturing. C. W. Bray. No. 941,850; Nov. 30; Sp. p. 7498; Gaz. vol. 148; p. 1260.  
 Metal strips edgewise, Bending. G. S. Dunn. No. 918,425; Apr. 13; Sp. p. 2961; Gaz. vol. 141; p. 522.  
 Metal strips in grooves, Securing. C. A. Parsons and E. C. Carnt. No. 930,413; Aug. 10; Sp. p. 1592; Gaz. vol. 145; p. 289.  
 Metal tie. B. C. Murray. No. 909,011; Jan. 5; Sp. p. 1189; Gaz. vol. 138; p. 190.  
 Metal, Treating. F. L. O. Wadsworth. No. 936,389; Oct. 12; Sp. p. 1647; Gaz. vol. 147; p. 275.  
 Metal, Treating molten. H. W. Partin. No. 933,576; Sept. 7; Sp. p. 1253; Gaz. vol. 146; p. 187.  
 Metal-tube machine. L. E. Hooker. No. 918,154; Apr. 13; Sp. p. 2422; Gaz. vol. 141; p. 434.  
 Metal wheel. G. H. Barschow. No. 929,650; Aug. 3; Sp. p. 8; Gaz. vol. 145; p. 4.  
 Metal wheel. A. E. Noble. No. 933,102; Sept. 7; Sp. p. 137; Gaz. vol. 146; p. 23.  
 Metal wheel. J. W. Murray. No. 941,030; Nov. 23; Sp. p. 5715; Gaz. vol. 148; p. 964.  
 Metal wheel, Pressed-. R. T. J. Martin. No. 912,010; Feb. 9; Sp. p. 2027; Gaz. vol. 139; p. 353.  
 Metal window. G. H. Forsyth. No. 914,651; Mar. 9; Sp. p. 2076; Gaz. vol. 140; p. 354.  
 Metal-work machine. G. P. Thomas. No. 908,818; Jan. 5; Sp. p. 802; Gaz. vol. 138; p. 126.  
 Metal-working apparatus. C. Huber. No. 926,985; July 6; Sp. p. 572; Gaz. vol. 144; p. 94.  
 Metal-working machine. J. Hartness. No. 912,676; Feb. 16; Sp. p. 3408; Gaz. vol. 139; p. 611.  
 Metal-working machine. E. E. Wood. No. 916,085; Mar. 23; Sp. p. 4964; Gaz. vol. 140; p. 879.  
 Metal-working machine. D. M. Watkins. No. 918,105; Apr. 13; Sp. p. 2331; Gaz. vol. 141; p. 417.  
 Metal-working machine. E. B. Sellew. No. 923,449; June 1; Sp. p. 760; Gaz. vol. 143; p. 113.  
 Metal-working machine. E. R. Seward. No. 927,432; July 6; Sp. p. 1468; Gaz. vol. 144; p. 244.  
 Metal-working machine. P. J. Havey. No. 933,981; Sept. 14; Sp. p. 2071; Gaz. vol. 146; p. 341.  
 Metal-working machine. F. W. Sanford and N. Marshall. No. 940,619; Nov. 16; Sp. p. 4809; Gaz. vol. 148; p. 802.  
 Metal-working machine. B. M. W. Hanson. No. 940,928; Nov. 23; Sp. p. 5485; Gaz. vol. 148; p. 930.  
 Metal-working machine, Automatic. F. E. Brightman. No. 937,762; Oct. 26; Sp. p. 4508; Gaz. vol. 147; p. 782.  
 Metal-working-machine feed and alarm mechanism. B. M. W. Hanson. No. 915,173; Mar. 16; Sp. p. 3143; Gaz. vol. 140; p. 552.  
 Metal-working-machine stop-motion. E. R. Seward. No. 925,041; June 15; Sp. p. 4174; Gaz. vol. 143; p. 710.  
 Metal-working machines, Feed mechanism for. J. Moll. No. 928,994; July 27; Sp. p. 4739; Gaz. vol. 144; p. 849.  
 Metal-working machines, Stop for carriages of. B. M. W. Hanson. No. 938,483; Nov. 2; Sp. p. 69; Gaz. vol. 148; p. 13.  
 Metal-working machines, Tail-stock for. B. M. W. Hanson. No. 921,982; May 18; Sp. p. 3899; Gaz. vol. 142; p. 682.  
 Metal-working machines, Work-support for. W. F. Zimmermann. No. 940,418; Nov. 16; Sp. p. 4396; Gaz. vol. 148; p. 736.  
 Metal-working machinery. C. E. Van Norman. No. 938,803; Nov. 2; Sp. p. 758; Gaz. vol. 148; p. 122.  
 Metal-working rolls. W. J. Williams. No. 921,042; May 11; Sp. p. 1923; Gaz. vol. 142; p. 341.  
 Metals, Acid-proof tank for the electrolytic refining of. A. G. Betts. No. 918,649; Apr. 20; Sp. p. 3496; Gaz. vol. 14 p. 625.  
 Metals and metalloids from lead and copper slags, Recovering volatile. W. Witter. No. 927,916; July 13; Sp. p. 2543; Gaz. vol. 144; p. 433.  
 Metals, Apparatus for treating molten. F. S. Adams. No. 940,774; Nov. 23; Sp. p. 5182; Gaz. vol. 148; p. 880.  
 Metals by the wet method, Electric dissociation of. A. Levy. No. 923,864; June 8; Sp. p. 1718; Gaz. vol. 143; p. 286.  
 Metals, &c., Casting. F. Schneider. No. 911,450; Feb. 2; Sp. p. 813; Gaz. vol. 139; p. 142.  
 Metals, Casting. M. V. Smith. No. 914,679; Mar. 9; Sp. p. 2164; Gaz. vol. 140; p. 363.  
 Metals, Coating with. C. H. Zieme. No. 909,274; Jan. 12; Sp. p. 1720; Gaz. vol. 138; p. 309.  
 Metals, Covering. C. Hellmich. No. 910,814; Jan. 26; Sp. p. 4888; Gaz. vol. 138; p. 882.  
 Metals, Depositing. C. H. Zieme. No. 934,704; Sept. 21; Sp. p. 3486; Gaz. vol. 146; p. 607.  
 Metals dissolved in mercury, Oxidizing. J. Whiting and C. F. Burgess. No. 937,128; Oct. 19; Sp. p. 3164; Gaz. vol. 147; p. 556.  
 Metals, Electrolytic deposition of. F. C. Mathers. No. 931,944; Aug. 24; Sp. p. 4934; Gaz. vol. 145; p. 846.  
 Metals electrolytically, Precipitating. A. Ramén. No. 913,430; Feb. 23; Sp. p. 4955; Gaz. vol. 139; p. 887.  
 Metals from ores and other substances, Apparatus for recovering. L. Dion. No. 925,626; June 22; Sp. p. 5289; Gaz. vol. 143; p. 930.  
 Metals from ores, Separating. P. Germain. No. 921,227; May 11; Sp. p. 2317; Gaz. vol. 142; p. 406.  
 Metals from their ores, Extracting. W. T. Smith. No. 926,718; June 29; Sp. p. 7531; Gaz. vol. 143; p. 1325.  
 Metals from their ores, Obtaining. A. T. Elliott and A. Miller. No. 937,293; Oct. 19; Sp. p. 3524; Gaz. vol. 147; p. 609.  
 Metals immersed in liquids, Preventing corrosion of. P. E. G. Cumberland. No. 921,641; May 11; Sp. p. 3187; Gaz. vol. 142; p. 545.  
 Metals in solution, Separating. H. H. Dow and W. S. Gates. No. 913,708; Mar. 2; Sp. p. 60; Gaz. vol. 140; p. 12.  
 Metals in solution, Separating. H. H. Dow and W. S. Gates. No. 913,709; Mar. 2; Sp. p. 66; Gaz. vol. 140; p. 13.  
 Metals of a highly-refractory nature, Apparatus for producing homogeneous ductile bodies from. W. von Bolton. No. 925,798; June 22; Sp. p. 5693; Gaz. vol. 143; p. 986.  
 Metals or steels of all qualities, Metallurgic process to produce. L. H. Baraduc-Muller. No. 933,357; Sept. 7; Sp. p. 731; Gaz. vol. 146; p. 114.  
 Metals, ores, &c., Working. O. Frick. No. 938,752; Nov. 2; Sp. p. 643; Gaz. vol. 148; p. 103.  
 Metals, Plating. W. Griffith. No. 936,713; Oct. 12; Sp. p. 2347; Gaz. vol. 147; p. 389.  
 Metals, Producing. H. S. Blackmore. No. 918,269; Apr. 13; Sp. p. 2662; Gaz. vol. 141; p. 472.  
 Metals, Protecting molten. W. S. Rockey and H. Eldridge. No. 943,161; Dec. 14; Sp. p. 2439; Gaz. vol. 149; p. 414.  
 Metals, Protecting molten. W. S. Rockey and H. Eldridge. No. 943,639; Dec. 14; Sp. p. 3483; Gaz. vol. 149; p. 579.  
 Metals, Recovering. W. O. Snelling. No. 917,176; Apr. 6; Sp. p. 434; Gaz. vol. 141; p. 76.  
 Metals, Removing tarnish from. M. H. Keyt. No. 937,154; Oct. 19; Sp. p. 3228; Gaz. vol. 147; p. 565.  
 Metals, Separation of. R. D. Divine. No. 921,372; May 11; Sp. p. 2644; Gaz. vol. 142; p. 454.  
 Metals, such as steel or steel alloys, Treating. C. J. Crist. No. 916,302; Mar. 23; Sp. p. 5357; Gaz. vol. 140; p. 950.  
 Metals therefrom, Treatment of pyrites liquor for winning. J. H. Thwaites. No. 921,312; May 11; Sp. p. 2493; Gaz. vol. 142; p. 433.  
 Metals, Treating. H. D. Miller. No. 936,650; Oct. 12; Sp. p. 2222; Gaz. vol. 147; p. 368.  
 Metals, Uniting. W. Griffith. No. 938,377; Oct. 26; Sp. p. 5840; Gaz. vol. 147; p. 991.  
 Metals, Uniting or welding. W. S. Simpson. No. 927,292; July 6; Sp. p. 1206; Gaz. vol. 144; p. 198.  
 Metals upon and in combination with metals or metal articles, Depositing. F. W. Gauntlett. No. 910,369; Jan. 19; Sp. p. 3954; Gaz. vol. 138; p. 711.  
 Metals, Welding. H. Goldschmidt. (Reissue.) No. 13,010; Aug. 17; Sp. p. 4416; Gaz. vol. 145; p. 749.



*Alphabetical list of inventions—Continued.*

- Metallic blooms or ingots, Machinery for piercing. W. U. Jackson and J. E. Joseph. No. 916,875; Mar. 30; Sp. p. 6487; Gaz. vol. 140; p. 1159.
- Metallic bodies, Method of and apparatus for testing and sorting. J. A. Switzer. No. 939,109; Nov. 2; Sp. p. 1394; Gaz. vol. 148; p. 227.
- Metallic-cap closure. W. Emmelius. No. 929,412; July 27; Sp. p. 5635; Gaz. vol. 144; p. 988.
- Metallic clip for fastening flexible handles to bags. R. P. Martin. No. 917,335; Apr. 6; Sp. p. 777; Gaz. vol. 141; p. 132.
- Metallic compound or composition of matter and making the same. F. A. Headson. No. 933,086; Aug. 31; Sp. p. 7174; Gaz. vol. 145; p. 1231.
- Metallic compounds, Reducing. F. J. Tone. No. 937,120; Oct. 19; Sp. p. 3147; Gaz. vol. 147; p. 553.
- Metallic compounds, Wet method of separating. J. H. Thwaites. No. 935,337; Sept. 28; Sp. p. 4769; Gaz. vol. 146; p. 842.
- Metallic hoop. W. Goldie. No. 908,460; Jan. 5; Sp. p. 52; Gaz. vol. 138; p. 11.
- Metallic hoop. W. Goldie. No. 920,319; May 4; Sp. p. 472; Gaz. vol. 142; p. 74.
- Metallic hoop. W. Goldie. No. 929,666; Aug. 3; Sp. p. 44; Gaz. vol. 145; p. 10.
- Metallic leaf from the surface of a heated roller, Apparatus for depositing. W. H. Coe. No. 929,559; July 27; Sp. p. 5888; Gaz. vol. 144; p. 1035.
- Metallic leaf, Package-roll of. W. H. Coe. No. 929,557; July 27; Sp. p. 5887; Gaz. vol. 144; p. 1034.
- Metallic leaf, Package-roll of. W. H. Coe. No. 929,558; July 27; Sp. p. 5888; Gaz. vol. 144; p. 1034.
- Metallic leaf, Package-roll of. W. H. Coe. No. 939,189; Nov. 2; Sp. p. 1585; Gaz. vol. 148; p. 256.
- Metallic linings, Making seamless. J. M. Burr and H. S. Gibbs. No. 922,851; May 25; Sp. p. 5676; Gaz. vol. 142; p. 994.
- Metallic material, Apparatus for treatment of. G. M. Heskamp. No. 931,599; Aug. 17; Sp. p. 4128; Gaz. vol. 145; p. 711.
- Metallic or other surfaces, Removing of metallic plating, coating, or fouling from. T. R. Bayliss, W. R. Hodgkinson, J. H. Hardcastle, A. H. Cootie, and R. A. E. Payne. No. 908,937; Jan. 5; Sp. p. 1033; Gaz. vol. 138; p. 166.
- Metallic pipes or other objects, Machine for truing the ends of. M. A. Baker. No. 916,650; Mar. 30; Sp. p. 6082; Gaz. vol. 140; p. 1090.
- Metallic-plate-edging machine. J. Fraser and T. Gray. No. 936,109; Oct. 5; Sp. p. 1072; Gaz. vol. 147; p. 163.
- Metallic product. G. F. Allen. No. 933,612; Sept. 7; Sp. p. 1334; Gaz. vol. 146; p. 198.
- Metallic rail-tie and rail-fastener. A. R. Cline. No. 929,915; Aug. 3; Sp. p. 629; Gaz. vol. 145; p. 99.
- Metallic receptacles, Machine for manufacturing. F. Olejnik. No. 933,575; Sept. 7; Sp. p. 1251; Gaz. vol. 146; p. 185.
- Metallic reinforcements, Wire tie for. D. A. Wedmore. No. 919,099; Apr. 20; Sp. p. 4422; Gaz. vol. 141; p. 773.
- Metallic shelving. R. W. Jeffers. No. 917,870; Apr. 13; Sp. p. 1829; Gaz. vol. 141; p. 334.
- Metallic structure. F. M. Wege. No. 913,334; Feb. 23; Sp. p. 4772; Gaz. vol. 139; p. 854.
- Metallic substances, Composition for preventing the corrosion and galvanic-electric action of. Z. Hotta. No. 916,870; Mar. 30; Sp. p. 6478; Gaz. vol. 140; p. 1157.
- Metallic surfaces, Finishing. A. Ridd. No. 937,180; Oct. 19; Sp. p. 3288; Gaz. vol. 147; p. 573.
- Metallic tie. F. A. Humme. No. 921,611; May 11; Sp. p. 3117; Gaz. vol. 142; p. 533.
- Metallic tie. W. and W. Goldie, Jr. No. 933,833; Sept. 14; Sp. p. 1772; Gaz. vol. 146; p. 294.
- Metallic tie. T. B. Bradford. No. 939,794; Nov. 9; Sp. p. 2980; Gaz. vol. 148; p. 490.
- Metallic tie. M. F. Bonzano. No. 940,500; Nov. 16; Sp. p. 4572; Gaz. vol. 148; p. 763.
- Metallic tie. L. A. Emerley and F. Matschuk. No. 942,721; Dec. 7; Sp. p. 1432; Gaz. vol. 149; p. 234.
- Metallic tie. E. F. Kenney. No. 943,782; Dec. 21; Sp. p. 3767; Gaz. vol. 149; p. 655.
- Metallic tie and rail-fastener. S. J. Zaleski. No. 917,831; Apr. 13; Sp. p. 1746; Gaz. vol. 141; p. 321.
- Metallic tie and rail-fastener. S. J. Zaleski. No. 917,832; Apr. 13; Sp. p. 1748; Gaz. vol. 141; p. 321.
- Metallic tie and rail-fastener. J. Majors and R. P. Fitzgerald. No. 920,596; May 4; Sp. p. 1019; Gaz. vol. 142; p. 166.
- Metallic tie and rail-fastener. O. A. Storaasli. No. 935,868; Oct. 5; Sp. p. 575; Gaz. vol. 147; p. 83.
- Metallic tie and rail-fastener. L. McFarland. No. 939,067; Nov. 2; Sp. p. 1316; Gaz. vol. 148; p. 291.
- Metallic tie and rail-fastener. G. A. Hassel. No. 940,809; Nov. 23; Sp. p. 5251; Gaz. vol. 148; p. 813.
- Metallic tie and rail-fastener. F. A. Ginnin. No. 944,857; Dec. 28; Sp. p. 6109; Gaz. vol. 149; p. 1049.
- Metallic tie and rail-fastener. G. A. Hassel. No. 940,966; Nov. 23; Sp. p. 5571; Gaz. vol. 148; p. 943.
- Metallic tie and track fastener. F. M. Webb. No. 910,249; Jan. 19; Sp. p. 3700; Gaz. vol. 138; p. 670.
- Metallic tubing, Flexible. E. Rubes. No. 916,890; Mar. 30; Sp. p. 6512; Gaz. vol. 140; p. 1164.
- Metallic wires against oxidation, &c., Protecting. W. Hancock. No. 910,674; Jan. 26; Sp. p. 4599; Gaz. vol. 138; p. 836.
- Metallurgic converter. W. H. Peirce. No. 944,905; Dec. 28; Sp. p. 6196; Gaz. vol. 149; p. 1065.
- Metallurgical furnace. L. S. Hughes. No. 920,334; May 4; Sp. p. 498; Gaz. vol. 142; p. 79.
- Metallurgical furnace. R. G. Reilly. No. 927,283; July 6; Sp. p. 1190; Gaz. vol. 144; p. 195.
- Metallurgical furnace. R. Hübner. No. 934,532; Sept. 21; Sp. p. 3138; Gaz. vol. 146; p. 547.
- Metallurgical process. G. Moore. No. 913,535; Feb. 23; Sp. p. 5169; Gaz. vol. 139; p. 922.
- Metallurgical process. O. B. Dawson. No. 936,095; Oct. 5; Sp. p. 1042; Gaz. vol. 147; p. 158.
- Metallurgical process. A. G. Betts. No. 938,634; Nov. 2; Sp. p. 423; Gaz. vol. 148; p. 65.
- Meter: See Blast and pressure meter; Current-meter; Electric meter; Electricity-meter; Electrolytic meter; Flush-meter; Gas-meter; Gas and water meter; Grain-meter; Liquid-meter; Liquid and gas meter; Mercury meter; Motor-meter; Opto-refractor meter; Photo-exposure meter; Prepayment-meter; Proportional meter; Pump-meter; Recording and printing meter; Water-meter; Wave-meter; Word-meter.
- Meter. W. H. Pratt. No. 917,130; Apr. 6; Sp. p. 350; Gaz. vol. 141; p. 62.
- Meter. A. H. Taylor. No. 934,107; Sept. 14; Sp. p. 2325; Gaz. vol. 146; p. 381.
- Meter. W. L. Gumprecht. No. 941,573; Nov. 30; Sp. p. 6886; Gaz. vol. 148; p. 1166.
- Meter. F. N. Connet. No. 944,417; Dec. 28; Sp. p. 5120; Gaz. vol. 149; p. 899.
- Meter-box. H. E. McWane. No. 911,256; Feb. 2; Sp. p. 466; Gaz. vol. 139; p. 80.
- Meter connection. A. L. Holmes. No. 913,892; Mar. 2; Sp. p. 468; Gaz. vol. 140; p. 77.
- Meter controlling mechanism, Electricity-. E. Evans. No. 934,902; Sept. 21; Sp. p. 3866; Gaz. vol. 146; p. 671.
- Meter fitting, Water-. H. I. Dilts. No. 910,514; Jan. 26; Sp. p. 4273; Gaz. vol. 138; p. 784.
- Meter-lock. J. H. Jackson. No. 927,146; July 6; Sp. p. 929; Gaz. vol. 144; p. 150.
- Meter-loop, Inclosed. E. C. Wigham. No. 936,067; Oct. 5; Sp. p. 990; Gaz. vol. 147; p. 149.
- Meter-seal. E. H. Burgett and C. Londick. No. 936,862; Oct. 12; Sp. p. 2628; Gaz. vol. 147; p. 438.
- Meter statement-delivery apparatus. R. W. Gallagher. No. 924,158; June 8; Sp. p. 2317; Gaz. vol. 143; p. 380.
- Meter system, Electrically-controlled. H. P. Clausen. No. 928,245; July 20; Sp. p. 3204; Gaz. vol. 144; p. 572.
- Meter system, Service-. W. Reid. No. 929,708; Aug. 3; Sp. p. 141; Gaz. vol. 145; p. 25.
- Meters, Gearing for. A. F. Hintze. No. 940,638; Nov. 16; Sp. p. 4857; Gaz. vol. 148; p. 808.
- Meters, Protection for electric. G. R. Radley. No. 920,649; May 4; Sp. p. 1117; Gaz. vol. 142; p. 182.
- Metering panel-board. A. C. McWilliams. No. 931,464; Aug. 17; Sp. p. 3886; Gaz. vol. 145; p. 671.
- Metronome. C. A. White and E. R. Hunter. No. 923,094; May 25; Sp. p. 6184; Gaz. vol. 142; p. 1072.
- Mica plates and the like, Machine for making. E. L. Elwell. No. 934,057; Sept. 14; Sp. p. 2208; Gaz. vol. 146; p. 365.
- Micrometer. E. J. Lees. No. 909,623; Jan. 12; Sp. p. 2404; Gaz. vol. 138; p. 426.
- Micrometer. A. Nielsen. No. 923,880; June 8; Sp. p. 1748; Gaz. vol. 143; p. 291.
- Micrometer. H. Spahn. No. 939,562; Nov. 9; Sp. p. 2459; Gaz. vol. 148; p. 408.
- Micrometer-caliper square. F. S. Buckminster. No. 909,538; Jan. 12; Sp. p. 2233; Gaz. vol. 138; p. 397.
- Micrometer-gage. L. Mastrangel. No. 914,855; Mar. 9; Sp. p. 2525; Gaz. vol. 140; p. 422.
- Micrometer-gage. C. R. Pietsch. No. 919,455; Apr. 27; Sp. p. 5358; Gaz. vol. 141; p. 926.
- Micrometer-gage. C. O. Schellenbach. No. 923,446; June 1; Sp. p. 753; Gaz. vol. 143; p. 112.
- Micrometer-gage. H. S. Plant. No. 934,692; Sept. 21; Sp. p. 3463; Gaz. vol. 146; p. 603.
- Micrometer-gage. F. O. Jaques. No. 934,730; Sept. 21; Sp. p. 3532; Gaz. vol. 146; p. 615.
- Micrometer-gage, Indicating. J. Wahlberg. No. 937,662; Oct. 19; Sp. p. 4283; Gaz. vol. 147; p. 731.
- Micrometer-gages, Spindle-lock for. L. S. Starrett. No. 928,889; July 20; Sp. p. 4528; Gaz. vol. 144; p. 788.
- Microphone. H. R. Stuart. No. 925,609; June 22; Sp. p. 5258; Gaz. vol. 143; p. 924.
- Microphone. G. Angelini. No. 928,096; July 13; Sp. p. 2875; Gaz. vol. 144; p. 490.
- Microphone. C. E. Egner and J. G. Holmström. No. 935,897; Oct. 5; Sp. p. 638; Gaz. vol. 147; p. 92.
- Microphone desk-stand. A. H. Weiss. No. 934,865; Sept. 21; Sp. p. 3799; Gaz. vol. 146; p. 659.
- Microscope-gage for fine measurements. H. A. Reynolds. No. 936,667; Oct. 12; Sp. p. 2252; Gaz. vol. 147; p. 374.
- Microtome. W. L. Patterson. No. 930,686; Aug. 10; Sp. p. 2178; Gaz. vol. 145; p. 381.
- Middlings and other materials, Method of and apparatus for purifying. H. S. Jewell. No. 934,668; Sept. 21; Sp. p. 3409; Gaz. vol. 146; p. 595.
- Middlings-purifier. L. A. Tator. No. 930,504; Aug. 10; Sp. p. 1776; Gaz. vol. 145; p. 319.
- Milk and butter merging apparatus. B. N. Hawes. No. 934,169; Sept. 14; Sp. p. 2454; Gaz. vol. 146; p. 404.
- Milk and cream can. W. F. Schuman. No. 919,961; Apr. 27; Sp. p. 6414; Gaz. vol. 141; p. 1096.
- Milk and cream saving device, Sanitary. C. C. Cousens. No. 920,545; May 4; Sp. p. 918; Gaz. vol. 142; p. 148.
- Milk-can. G. M. Weeks. No. 911,465; Feb. 2; Sp. p. 838; Gaz. vol. 139; p. 147.
- Milk-can. R. Bray. No. 915,826; Mar. 23; Sp. p. 4481; Gaz. vol. 140; p. 795.
- Milk-can. J. B. Conover. No. 917,253; Apr. 6; Sp. p. 602; Gaz. vol. 141; p. 104.

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- Milk-can. G. H. Marting. No. 929,150; July 27; Sp. p. 5072; Gaz. vol. 144; p. 901.  
Milk-can. G. H. and E. C. Damrow. No. 941,232; Nov. 23; Sp. p. 6154; Gaz. vol. 148; p. 1032.  
Milk-can, Jacketed. P. Larsen. No. 935,265; Sept. 28; Sp. p. 4607; Gaz. vol. 146; p. 819.  
Milk-concentrating apparatus. E. E. Claussen. No. 915,019; Mar. 9; Sp. p. 2800; Gaz. vol. 140; p. 474.  
Milk-container. G. W. Maxwell. No. 923,061; May 25; Sp. p. 6116; Gaz. vol. 142; p. 1062.  
Milk-cooler. W. Mitcham. No. 913,418; Feb. 23; Sp. p. 4935; Gaz. vol. 139; p. 883.  
Milk-cooler. T. E. Dickson. No. 930,358; Aug. 10; Sp. p. 1492; Gaz. vol. 145; p. 271.  
Milk-cooler. J. Lindgren and O. A. Mattson. No. 933,653; Sept. 7; Sp. p. 1403; Gaz. vol. 146; p. 210.  
Milk-cooler. W. J. Sonka. No. 934,227; Sept. 14; Sp. p. 2560; Gaz. vol. 146; p. 423.  
Milk-cooler. W. T. Murray. No. 938,395; Oct. 26; Sp. p. 5883; Gaz. vol. 147; p. 998.  
Milk cooling and preserving apparatus. J. E. Johnston. No. 918,862; Apr. 20; Sp. p. 3961; Gaz. vol. 141; p. 696.  
Milk-crating device. A. N. Eaton. No. 934,898; Sept. 21; Sp. p. 3860; Gaz. vol. 146; p. 670.  
Milk, Desiccating. J. H. and C. H. Campbell. No. 910,784; Jan. 26; Sp. p. 4821; Gaz. vol. 138; p. 872.  
Milk, Desiccating. F. X. Govers. No. 939,495; Nov. 9; Sp. p. 2323; Gaz. vol. 148; p. 385.  
Milk, Drying. J. R. Hatmaker. No. 920,952; May 11; Sp. p. 1760; Gaz. vol. 142; p. 312.  
Milk, Fermentation of. J. P. Cabanne. No. 944,013; Dec. 21; Sp. p. 4274; Gaz. vol. 149; p. 736.  
Milk, Fibrous desiccated. J. A. Just. No. 939,139; Nov. 2; Sp. p. 1462; Gaz. vol. 148; p. 238.  
Milk for infants, Making. P. Bergell. No. 934,133; Sept. 14; Sp. p. 2388; Gaz. vol. 146; p. 391.  
Milk-heater. H. C. Root. No. 939,636; Nov. 9; Sp. p. 2634; Gaz. vol. 148; p. 434.  
Milk-heater. A. H. Schlueter. No. 940,367; Nov. 16; Sp. p. 4275; Gaz. vol. 148; p. 718.  
Milk-pail. J. D. Perry. No. 911,262; Feb. 2; Sp. p. 481; Gaz. vol. 139; p. 62.  
Milk pasteurizer and cooler. W. R. Thatcher. No. 941,964; Nov. 30; Sp. p. 7717; Gaz. vol. 148; p. 1299.  
Milk pasteurizer and filter. C. C. Stambaugh. No. 939,107; Nov. 2; Sp. p. 1390; Gaz. vol. 148; p. 227.  
Milk pasteurizer and separator. W. R. Thatcher. No. 916,221; Mar. 23; Sp. p. 5223; Gaz. vol. 140; p. 922.  
Milk, Pasteurizing. J. Willmann. No. 913,600; Feb. 23; Sp. p. 5328; Gaz. vol. 139; p. 943.  
Milk, Preserved. T. B. Wagner. No. 934,641; Sept. 21; Sp. p. 3366; Gaz. vol. 146; p. 586.  
Milk-registering machine. C. F. Snyder. No. 937,389; Oct. 19; Sp. p. 3733; Gaz. vol. 147; p. 640.  
Milk sampling and measuring device. A. A. Johnson. No. 942,648; Dec. 7; Sp. p. 1288; Gaz. vol. 149; p. 210.  
Milk-separating and butter-churning process. G. A. Davidson. No. 909,763; Jan. 12; Sp. p. 2679; Gaz. vol. 138; p. 47.  
Milk-strainer. R. P. Ekstrom. No. 914,031; Mar. 2; Sp. p. 824; Gaz. vol. 140; p. 126.  
Milk-strainer. S. R. Whitehead. No. 915,519; Mar. 16; Sp. p. 3820; Gaz. vol. 140; p. 665.  
Milk-strainer-cloth fastener. I. Foelt. No. 911,583; Feb. 9; Sp. p. 1092; Gaz. vol. 139; p. 213.  
Milk, Treating. J. L. Goucher. No. 918,531; Apr. 20; Sp. p. 3194; Gaz. vol. 141; p. 585.  
Milk, Treating. J. L. Goucher. No. 922,134; May 18; Sp. p. 4187; Gaz. vol. 142; p. 732.  
Milk, Utilizing dried. J. A. Just. No. 939,138; Nov. 2; Sp. p. 1458; Gaz. vol. 148; p. 238.  
Milk-vat. A. F. Stoelting. No. 935,943; Oct. 5; Sp. p. 733; Gaz. vol. 147; p. 108.  
Milk-warmer. I. Bauer. No. 944,307; Dec. 28; Sp. p. 4877; Gaz. vol. 149; p. 859.  
Milkings apparatus. K. I. Lindström. No. 911,416; Feb. 2; Sp. p. 760; Gaz. vol. 139; p. 132.  
Milkings apparatus. E. E. Good. No. 920,129; May 4; Sp. p. 80; Gaz. vol. 142; p. 11.  
Milkings apparatus. E. E. Good. No. 937,789; Oct. 26; Sp. p. 4576; Gaz. vol. 147; p. 793.  
Milkings appliance. J. Heinrichsen and C. J. Hemmingsen. No. 938,857; Nov. 2; Sp. p. 865; Gaz. vol. 148; p. 140.  
Milkings cows. F. M. Berberich. No. 942,243; Dec. 7; Sp. p. 463; Gaz. vol. 149; p. 71.  
Milkings, Device for teaching. P. J. De Vries. No. 933,535; Sept. 7; Sp. p. 1185; Gaz. vol. 146; p. 172.  
Milkings-machine. M. H. Daniels. No. 908,449; Jan. 5; Sp. p. 32; Gaz. vol. 138; p. 7.  
Milkings-machine. C. H. Seymore. No. 909,239; Jan. 12; Sp. p. 1656; Gaz. vol. 138; p. 298.  
Milkings-machine. F. B. Shafer. No. 915,312; Mar. 16; Sp. p. 3419; Gaz. vol. 140; p. 597.  
Milkings-machine. J. Nielsen. No. 917,888; Apr. 13; Sp. p. 1866; Gaz. vol. 141; p. 341.  
Milkings-machine. G. J. E. Sundberg and C. J. J. Hägg. No. 917,905; Apr. 13; Sp. p. 1917; Gaz. vol. 141; p. 347.  
Milkings-machine. O. Mortensen. No. 923,065; May 25; Sp. p. 6131; Gaz. vol. 142; p. 1063.  
Milkings-machine. L. Holt. No. 924,229; June 8; Sp. p. 2493; Gaz. vol. 143; p. 404.  
Milkings-machine. D. Klein. No. 924,997; June 15; Sp. p. 4085; Gaz. vol. 143; p. 695.  
Milkings-machine. P. F. Klein. No. 925,196; June 15; Sp. p. 4467; Gaz. vol. 143; p. 762.  
Milkings-machine. L. L. Story. No. 927,896; July 13; Sp. p. 2490; Gaz. vol. 144; p. 425.  
Milkings-machine. J. H. Hoover. No. 929,764; Aug. 3; Sp. p. 278; Gaz. vol. 145; p. 48.  
Milkings-machine. F. H. Schley. No. 932,585; Aug. 31; Sp. p. 6261; Gaz. vol. 145; p. 1083.  
Milkings-machine. R. Kennedy. No. 933,466; Sept. 7; Sp. p. 984; Gaz. vol. 146; p. 149.  
Milkings-machine. K. I. Lindström. No. 934,681; Sept. 21; Sp. p. 3444; Gaz. vol. 146; p. 600.  
Milkings-machine. W. J. Uebler. No. 935,338; Sept. 28; Sp. p. 4761; Gaz. vol. 146; p. 842.  
Milkings-machine. G. E. Jonson. No. 936,907; Oct. 12; Sp. p. 2720; Gaz. vol. 147; p. 454.  
Milkings-machine. K. J. Bukolt. No. 940,852; Nov. 23; Sp. p. 5341; Gaz. vol. 148; p. 905.  
Milkings-machine. K. I. Lindström. No. 941,789; Nov. 30; Sp. p. 7345; Gaz. vol. 148; p. 1238.  
Milkings-machine. L. Burrell. No. 942,482; Dec. 7; Sp. p. 953; Gaz. vol. 149; p. 154.  
Milkings-machine-adjusting device. E. V. Gandil. No. 936,771; Oct. 12; Sp. p. 2452; Gaz. vol. 147; p. 408.  
Milkings-machines, Electromagnetic pulsator for. L. W. and E. J. Badger. No. 934,263; Sept. 14; Sp. p. 2626; Gaz. vol. 146; p. 435.  
Milkings-machines, Pulsator for. D. Brown. No. 930,833; Aug. 10; Sp. p. 2483; Gaz. vol. 145; p. 429.  
Milkings vessel. S. W. Gerster. No. 938,658; Nov. 2; Sp. p. 477; Gaz. vol. 148; p. 73.  
Milk: See Ball-mill; Beaking-mill; Chasing-mill; Chilian mill; Coffee-mill; Coffee or spice mill; Crushing-mill; Crushing and pulverizing mill; Fanning-mill; Feed-mill; Fruit and vegetable mill; Grain-hulling mill; Grinding-mill; Grinding and pulverizing mill; Ointment-mill; Pebble-mill; Pulverizing-mill; Pulverizing or grinding mill; Reducing-mill; Roller-mill; Rolling-mill; Sawmill; Stamp-mill; Sugar-cane mill; Toy water-mill; Triturating-mill; Triturating and reducing mill; Tube-mill; Windmill.  
Mill. J. L. Terwilliger. No. 921,911; May 18; Sp. p. 3749; Gaz. vol. 142; p. 660.  
Mill. L. E. Gaisser. No. 932,543; Aug. 31; Sp. p. 6162; Gaz. vol. 145; p. 1068.  
Mill and method for rolling tubes. M. F. Capron. No. 923,944; June 8; Sp. p. 1861; Gaz. vol. 143; p. 310.  
Mill cooling device, Tin-sheet-. P. J. Wintgens. No. 912,764; Feb. 16; Sp. p. 3642; Gaz. vol. 139; p. 642.  
Mill furnace, Rolling-. B. Peterson. No. 915,109; Mar. 16; Sp. p. 3013; Gaz. vol. 140; p. 532.  
Mill guide, Rolling-. L. Kruger. No. 916,724; Mar. 30; Sp. p. 6211; Gaz. vol. 140; p. 1112.  
Mill-roller. J. J. Langas. No. 929,143; July 27; Sp. p. 5058; Gaz. vol. 144; p. 898.  
Mill roller-table, Three-high-roll-. C. L. Taylor. No. 916,500; Mar. 30; Sp. p. 5791; Gaz. vol. 140; p. 1042.  
Mill sieve, Fanning-. T. Chipera. No. 910,904; Jan. 26; Sp. p. 5049; Gaz. vol. 138; p. 909.  
Milling and like machine. G. Reyher. No. 911,841; Feb. 9; Sp. p. 1593; Gaz. vol. 139; p. 295.  
Milling attachment, Universal. G. G. Porter and F. E. Cable. No. 943,845; Dec. 21; Sp. p. 3895; Gaz. vol. 149; p. 678.  
Milling double helical-toothed wheels, Machine for. C. Wüst-Kunz. No. 936,973; Oct. 12; Sp. p. 2847; Gaz. vol. 147; p. 474.  
Milling, facing, and other metal-cutting operations, Machine for. W. A. and F. Pearn. No. 941,269; Nov. 23; Sp. p. 6230; Gaz. vol. 148; p. 1044.  
Milling-machine. G. P. Thomas. No. 908,816; Jan. 5; Sp. p. 797; Gaz. vol. 138; p. 125.  
Milling-machine. J. Riddell. No. 910,315; Jan. 19; Sp. p. 3848; Gaz. vol. 138; p. 694.  
Milling-machine. A. L. De Leeuw. No. 927,776; July 13; Sp. p. 2228; Gaz. vol. 144; p. 386.  
Milling-machine. J. E. Key. No. 929,599; July 27; Sp. p. 5966; Gaz. vol. 144; p. 1048.  
Milling-machine. J. Edgar. No. 937,057; Oct. 19; Sp. p. 3026; Gaz. vol. 147; p. 531.  
Milling-machine, Bevel-gear-. P. L. Weston. No. 935,077; Sept. 28; Sp. p. 4233; Gaz. vol. 146; p. 757.  
Milling-machine, Cycloidal. C. Wiebke. No. 935,345; Sept. 28; Sp. p. 4777; Gaz. vol. 146; p. 845.  
Milling-machine, Portable. R. P. Decker. No. 942,168; Dec. 7; Sp. p. 311; Gaz. vol. 149; p. 47.  
Milling-machines, &c., High-speed attachment for. V. C. Chace. No. 916,269; Mar. 23; Sp. p. 5303; Gaz. vol. 140; p. 939.  
Milling process. M. C. Peters. No. 938,333; Oct. 26; Sp. p. 5730; Gaz. vol. 147; p. 976.  
Millinery device. J. Popper. No. 929,980; Aug. 3; Sp. p. 757; Gaz. vol. 145; p. 121.  
Mining-machine knife. A. Gömöry. No. 922,884; May 25; Sp. p. 5769; Gaz. vol. 142; p. 1006.  
Mine automatic cage-loader and safety device. J. W. Brannon. No. 908,943; Jan. 5; Sp. p. 1042; Gaz. vol. 138; p. 168.  
Mine, Buoyant mechanical submarine. T. Novero. No. 928,789; July 20; Sp. p. 4321; Gaz. vol. 144; p. 753.  
Mine-door. C. W. Carman. No. 931,035; Aug. 17; Sp. p. 2953; Gaz. vol. 145; p. 523.  
Mine-door-operating device. J. M. Sausser. No. 941,102; Nov. 23; Sp. p. 5859; Gaz. vol. 148; p. 988.  
Mine-firing device. T. C. Hallam. No. 936,885; Oct. 12; Sp. p. 2676; Gaz. vol. 147; p. 446.  
Mine or projectile, Explosive. T. G. F. McComb. No. 910,942; Jan. 26; Sp. p. 5116; Gaz. vol. 138; p. 922.



*Alphabetical list of inventions—Continued.*

- Mine-prop. F. Nellen. No. 931,466; Aug. 17; Sp. p. 3894; Gaz. vol. 145; p. 671.  
 Mine-shaft equipment. H. L. Templar. No. 944,113; Dec. 21; Sp. p. 4477; Gaz. vol. 149; p. 769.  
 Mine skips and cages, hoists, and the like, Safety-catch for. V. H. Malston. No. 917,332; Apr. 6; Sp. p. 773; Gaz. vol. 141; p. 131.  
 Mine, Submarine. M. Klauber. No. 913,401; Feb. 23; Sp. p. 4892; Gaz. vol. 139; p. 877.  
 Mine, Submarine. K. O. Leon. No. 913,524; Feb. 23; Sp. p. 5148; Gaz. vol. 139; p. 918.  
 Mine, Submarine. A. P. Broomell. No. 937,673; Oct. 19; Sp. p. 4307; Gaz. vol. 147; p. 734.  
 Mine, Submarine. A. P. Broomell. No. 940,506; Nov. 16; Sp. p. 4584; Gaz. vol. 148; p. 765.  
 Mine-ventilating system. J. Quin. No. 911,525; Feb. 2; Sp. p. 958; Gaz. vol. 139; p. 167.  
 Mine-ventilating system. M. Ward. No. 942,950; Dec. 14; Sp. p. 1970; Gaz. vol. 149; p. 342.  
 Mine ventilation, System of. D. Belloni. No. 925,274; June 15; Sp. p. 4605; Gaz. vol. 143; p. 787.  
 Mine-ventilator. M. T. McDonough. No. 938,781; Nov. 2; Sp. p. 706; Gaz. vol. 148; p. 114.  
 Mines, Apparatus for recording bell or like signals, especially applicable to. J. Russell. No. 938,516; Nov. 2; Sp. p. 170; Gaz. vol. 148; p. 24.  
 Mines, Apparatus for removing gases and foul air from. J. C. Stirling. No. 932,916; Aug. 31; Sp. p. 6928; Gaz. vol. 145; p. 1190.  
 Mines, Check-holder for. L. F. Weaver. No. 936,201; Oct. 5; Sp. p. 1250; Gaz. vol. 147; p. 189.  
 Mines, Conveyor for. P. J. Riley. No. 942,750; Dec. 7; Sp. p. 1484; Gaz. vol. 149; p. 243.  
 Mines, Electrical shot-firing machine for. W. B. McLarty. No. 916,476; Mar. 30; Sp. p. 5730; Gaz. vol. 140; p. 1034.  
 Mines, &c., Elevating appliance for use in. K. Teichmann. No. 919,492; Apr. 27; Sp. p. 5475; Gaz. vol. 141; p. 940.  
 Mines or projectiles, Fuse in connection with explosive. T. G. F. McCombie. No. 910,943; Jan. 26; Sp. p. 5121; Gaz. vol. 138; p. 922.  
 Mines, Priming charge for. L. Cahic. No. 938,553; Nov. 2; Sp. p. 257; Gaz. vol. 148; p. 38.  
 Mines, Removing loose materials, dust, and gases from. F. T. Byers. (Reissue.) No. 12,923; Feb. 23; Sp. p. 5503; Gaz. vol. 139; p. 969.  
 Mines, Transporting apparatus for. A. E. Davis. No. 918,661; Apr. 20; Sp. p. 3527; Gaz. vol. 141; p. 629.  
 Mines, Trap-door for. V. A. and H. Johnson. No. 925,915; June 22; Sp. p. 5935; Gaz. vol. 143; p. 1024.  
 Miners' candlesticks, Attachment for. S. M. Thurman. No. 908,821; Jan. 5; Sp. p. 814; Gaz. vol. 138; p. 127.  
 Miner's knee-pad. N. and G. C. Horath and R. Williams. No. 926,328; June 29; Sp. p. 6795; Gaz. vol. 143; p. 1195.  
 Mining and track tool, Combined. W. L. Groom. No. 911,038; Feb. 2; Sp. p. 30; Gaz. vol. 139; p. 7.  
 Mining apparatus. M. Goldsmith. No. 931,057; Aug. 17; Sp. p. 3022; Gaz. vol. 145; p. 531.  
 Mining, Apparatus and method for. C. A. Bray. No. 927,939; July 13; Sp. p. 2583; Gaz. vol. 144; p. 440.  
 Mining apparatus, Portable placer-. J. M. Low. No. 932,037; Aug. 24; Sp. p. 5138; Gaz. vol. 145; p. 878.  
 Mining-buckets, &c., Automatic catch for. T. C. Wright. No. 922,375; May 18; Sp. p. 4671; Gaz. vol. 142; p. 810.  
 Mining coal. D. P. Loomis. No. 935,762; Oct. 6; Sp. p. 297; Gaz. vol. 147; p. 47.  
 Mining-drill. J. R. Place. No. 936,937; Oct. 12; Sp. p. 2769; Gaz. vol. 147; p. 463.  
 Mining, Hewing apparatus for open-air. E. Wischow. No. 919,105; Apr. 20; Sp. p. 4432; Gaz. vol. 141; p. 774.  
 Mining-machine. E. McGowan. No. 910,944; Jan. 26; Sp. p. 5122; Gaz. vol. 138; p. 923.  
 Mining-machine. J. Herzler, H. Henninger, and W. Fenner. No. 932,124; Aug. 24; Sp. p. 5317; Gaz. vol. 145; p. 906.  
 Mining-machine. H. B. Dierdorff. No. 945,000; Dec. 28; Sp. p. 6376; Gaz. vol. 149; p. 1095.  
 Mining machine, Coal-. A. H. Gibson. No. 944,029; Dec. 21; Sp. p. 4300; Gaz. vol. 149; p. 741.  
 Mining machinery. E. S. Bennett. No. 914,917; Mar. 9; Sp. p. 2633; Gaz. vol. 140; p. 441.  
 Mining machinery. A. H. Gibson. No. 915,949; Mar. 23; Sp. p. 4705; Gaz. vol. 140; p. 835.  
 Mining-timber, Reinforced-concrete. J. A. Elliott. No. 924,153; June 8; Sp. p. 2310; Gaz. vol. 143; p. 379.  
 Mining-transit-center finder. W. A. Berger. No. 944,654; Dec. 28; Sp. p. 5653; Gaz. vol. 149; p. 981.  
 Mineral-classifying apparatus. R. H. Richards. No. 943,101; Dec. 14; Sp. p. 2322; Gaz. vol. 149; p. 394.  
 Mineral-concentrator. C. O. Michaelsen. No. 917,337; Apr. 6; Sp. p. 780; Gaz. vol. 141; p. 133.  
 Minerals, Apparatus for washing or extracting. R. Freygang. No. 910,279; Jan. 19; Sp. p. 3782; Gaz. vol. 138; p. 681.  
 Minerals, Device for preventing waste of. M. J. Smith and M. O. Kongsl. No. 936,377; Oct. 12; Sp. p. 1625; Gaz. vol. 147; p. 275.  
 Minnow, Artificial. W. G. Kahlo. No. 925,482; June 22; Sp. p. 4999; Gaz. vol. 143; p. 883.  
 Mirror. H. Varder. No. 940,411; Nov. 16; Sp. p. 4386; Gaz. vol. 148; p. 734.  
 Mirror-adjusting device. E. A. J. Germain. No. 931,291; Aug. 17; Sp. p. 3546; Gaz. vol. 145; p. 612.  
 Mirror attachment for windows. M. Nelson. No. 935,922; Oct. 5; Sp. p. 692; Gaz. vol. 147; p. 101.  
 Mirror, Electric mouth-. B. E. Turney. No. 938,525; Nov. 2; Sp. p. 189; Gaz. vol. 148; p. 27.  
 Mirror, Hat-. M. Rawitsch. No. 910,723; Jan. 26; Sp. p. 4685; Gaz. vol. 138; p. 852.  
 Mirror, Hat-. C. L. Cruver. No. 943,005; Dec. 14; Sp. p. 2100; Gaz. vol. 149; p. 361.  
 Mirror, Portable. C. W. Angell. No. 940,115; Nov. 16; Sp. p. 3705; Gaz. vol. 148; p. 631.  
 Mirror stand or support, Adjustable. G. P. Humphries. No. 935,208; Sept. 28; Sp. p. 4494; Gaz. vol. 146; p. 799.  
 Mirrors, &c., Holder for frameless. W. R. Bickford. No. 911,568; Feb. 9; Sp. p. 1062; Gaz. vol. 139; p. 207.  
 Mirrors, Manufacture of metallic. S. O. Cowper-Coles. No. 915,415; Mar. 16; Sp. p. 3623; Gaz. vol. 140; p. 631.  
 Mirrors to window-panes, Means for attaching. C. A. Austin. No. 918,724; Apr. 20; Sp. p. 3679; Gaz. vol. 141; p. 652.  
 Miter-box. N. J. Shimmel. No. 914,196; Mar. 2; Sp. p. 1163; Gaz. vol. 140; p. 182.  
 Miter-box. E. W. Whitmore. No. 914,543; Mar. 9; Sp. p. 1876; Gaz. vol. 140; p. 320.  
 Miter-box. J. F. Winkler. No. 920,708; May 4; Sp. p. 1268; Gaz. vol. 142; p. 202.  
 Miter-box. W. H. Eastman. No. 922,680; May 25; Sp. p. 5314; Gaz. vol. 142; p. 939.  
 Miter-box. J. M. Jacobsen. No. 923,268; June 1; Sp. p. 324; Gaz. vol. 143; p. 51.  
 Miter-box. F. W. McLean. No. 930,311; Aug. 3; Sp. p. 1388; Gaz. vol. 145; p. 230.  
 Miter-box. C. L. Nystrom. No. 930,684; Aug. 10; Sp. p. 2173; Gaz. vol. 145; p. 380.  
 Miter-box. J. A. Leland. No. 935,375; Sept. 28; Sp. p. 4828; Gaz. vol. 146; p. 854.  
 Miter-box. T. M. Birkett. No. 937,044; Oct. 19; Sp. p. 3005; Gaz. vol. 147; p. 527.  
 Miter-box. N. P. Lithander. No. 937,946; Oct. 26; Sp. p. 4891; Gaz. vol. 147; p. 845.  
 Miter-box. W. E. Shotts. No. 938,282; Oct. 26; Sp. p. 5604; Gaz. vol. 147; p. 958.  
 Miter-box saw-support. E. A. Schade. No. 935,694; Oct. 5; Sp. p. 156; Gaz. vol. 147; p. 25.  
 Miter-clamp. J. L. Taylor. No. 941,825; Nov. 30; Sp. p. 7440; Gaz. vol. 148; p. 1251.  
 Miter-cutting machine for metallic binding for patterns, &c. H. J. Sutherland. No. 934,027; Sept. 14; Sp. p. 2147; Gaz. vol. 146; p. 356.  
 Miter-gage. J. Erikson and G. R. Wikander. No. 939,405; Nov. 9; Sp. p. 2142; Gaz. vol. 148; p. 355.  
 Mitering-machine attachment. W. W. Pursell. No. 936,355; Oct. 12; Sp. p. 1564; Gaz. vol. 147; p. 267.  
 Mitt, Base-ball. J. Gamble. No. 916,947; Mar. 30; Sp. p. 6649; Gaz. vol. 140; p. 1185.  
 Mitten. W. D. Corney. No. 944,499; Dec. 28; Sp. p. 6279; Gaz. vol. 149; p. 1078.  
 Mixer. See Boiler-compound mixer; Cake-mixer; Cement-mixer; Cement and concrete mixer; Concrete-mixer; Dough-mixer; Drum batch-mixer; Egg-whisker and cake-mixer; Feed-mixer; Hydrocarbon-mixer; Mortar-mixer; Mortar or concrete mixer.  
 Mixer. A. M. Monday. No. 914,495; Mar. 9; Sp. p. 1766; Gaz. vol. 140; p. 303.  
 Mixer. L. A. Thomas. No. 918,394; Apr. 13; Sp. p. 2900; Gaz. vol. 141; p. 512.  
 Mixer. T. H. Hood. No. 921,991; May 18; Sp. p. 3920; Gaz. vol. 142; p. 685.  
 Mixer and vaporizer. G. W. Wright. No. 922,374; May 18; Sp. p. 4668; Gaz. vol. 142; p. 810.  
 Mixerfeed device. C. E. Bathrick. No. 920,415; May 4; Sp. p. 664; Gaz. vol. 142; p. 105.  
 Mixer for culinary use. E. Schmitz. No. 925,038; June 15; Sp. p. 4167; Gaz. vol. 143; p. 709.  
 Mixers, Muffler for. J. F. Parker. No. 924,926; June 15; Sp. p. 3925; Gaz. vol. 143; p. 670.  
 Mixing and kneading machine. R. T. Griffiths. No. 912,842; Feb. 16; Sp. p. 3789; Gaz. vol. 139; p. 666.  
 Mixing and straining machine. W. S. Kern. No. 909,306; Jan. 12; Sp. p. 1788; Gaz. vol. 138; p. 320.  
 Mixing apparatus. M. C. Peters. No. 914,304; Mar. 2; Sp. p. 1382; Gaz. vol. 140; p. 214.  
 Mixing apparatus. W. Snyder. No. 929,719; Aug. 3; Sp. p. 166; Gaz. vol. 145; p. 30.  
 Mixing apparatus. G. F. Dickson. No. 937,025; Oct. 12; Sp. p. 2959; Gaz. vol. 147; p. 491.  
 Mixing apparatus. D. B. Jackson. No. 941,075; Nov. 23; Sp. p. 5803; Gaz. vol. 148; p. 979.  
 Mixing-machine. T. M. Phillips. No. 919,074; Apr. 20; Sp. p. 4379; Gaz. vol. 141; p. 765.  
 Mixing-machine. C. Whalley. No. 920,703; May 4; Sp. p. 1257; Gaz. vol. 142; p. 200.  
 Mixing-machine. R. Edmondson. No. 922,112; May 18; Sp. p. 4151; Gaz. vol. 142; p. 726.  
 Mixing-machine. J. A. Svenson. No. 930,573; Aug. 10; Sp. p. 1957; Gaz. vol. 145; p. 344.  
 Mixing-machine. C. Steidle. No. 936,182; Oct. 5; Sp. p. 1225; Gaz. vol. 147; p. 185.  
 Mixing-machine. F. W. Clark. No. 937,359; Oct. 19; Sp. p. 3660; Gaz. vol. 147; p. 630.  
 Mixing-machine. F. Aeschbach. No. 938,201; Oct. 26; Sp. p. 5455; Gaz. vol. 147; p. 932.  
 Mixing-machine. W. McRae. No. 941,267; Nov. 23; Sp. p. 6226; Gaz. vol. 148; p. 1043.  
 Mixing-machine. O. H. Weckesser. No. 941,830; Nov. 30; Sp. p. 7452; Gaz. vol. 148; p. 1253.  
 Mixing mechanism. S. E. Ray. No. 935,688; Oct. 5; Sp. p. 138; Gaz. vol. 147; p. 23.  
 Mixing-receptacle, Hand. A. Hallenberg. No. 939,017; Nov. 2; Sp. p. 1223; Gaz. vol. 148; p. 195.  
 Mixtures, Apparatus for obtaining intimate. E. Dor-Delattre. No. 922,863; May 25; Sp. p. 5707; Gaz. vol. 142; p. 999.  
 Mixtures, Obtaining intimate. E. Dor-Delattre. No. 939,989; Nov. 16; Sp. p. 3399; Gaz. vol. 148; p. 585.

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- Moccasin. S. Armstrong. No. 914,220; Mar. 2; Sp. p. 1200; Gaz. vol. 140; p. 188.  
 Models, Apparatus for making copies of. M. Kruse. No. 918,171; Apr. 13; Sp. p. 2451; Gaz. vol. 141; p. 439.  
 Moistener. W. P. Cook. No. 912,815; Feb. 16; Sp. p. 3743; Gaz. vol. 139; p. 659.  
 Moistener. J. H. Bordeaux. No. 944,769; Dec. 28; Sp. p. 5908; Gaz. vol. 149; p. 1019.  
 Moistener and affixer, Automatic stamp. W. Z. Bean. No. 940,497; Nov. 16; Sp. p. 4567; Gaz. vol. 148; p. 762.  
 Moistener and sealer, Envelop. F. Roth. No. 943,318; Dec. 14; Sp. p. 2762; Gaz. vol. 149; p. 466.  
 Moistener, Antiseptic finger. J. A. Sauer and G. B. Potter. No. 939,098; Nov. 2; Sp. p. 1376; Gaz. vol. 148; p. 224.  
 Moistener, Broom. W. A. Fuller. No. 921,225; May 11; Sp. p. 2311; Gaz. vol. 142; p. 406.  
 Moistener for brooms and brushes. J. C. O'Donal. No. 930,879; Aug. 10; Sp. p. 2604; Gaz. vol. 145; p. 445.  
 Moistener, Sanitary adhesive. A. Dewerpe. No. 915,417; Mar. 16; Sp. p. 3625; Gaz. vol. 140; p. 631.  
 Moistening apparatus, Air-. W. H. Webb, W. G. Brettell, and A. J. Adamson. No. 943,638; Dec. 14; Sp. p. 3481; Gaz. vol. 149; p. 578.  
 Moistening device. L. W. Homire. No. 940,598; Nov. 16; Sp. p. 4772; Gaz. vol. 148; p. 795.  
 Moisture and of chemical agents, Rendering material of any kind proof against the action of. A. Kronstein. No. 919,031; Apr. 20; Sp. p. 4305; Gaz. vol. 141; p. 752.  
 Moisture producing and regulating device. L. M. Hartwick. No. 917,863; Apr. 13; Sp. p. 1814; Gaz. vol. 141; p. 332.  
 Molasses-jug and other hinged-lid receptacle. C. S. Baron. No. 940,918; Nov. 23; Sp. p. 5467; Gaz. vol. 148; p. 927.  
 Mold. See Adjustable mold; Anode-mold; Block-mold; Brick-mold; Brick and block mold; Building-mold; Building-block mold; Bullet-mold; Burial-vault-forming mold; Butter-mold; Candy-mold; Casting-machine mold; Cement-block mold; Cement-cistern mold; Cement-wash tub mold; Chill-mold; Cistern-mold; Coffin-box mold; Concrete-mold; Concrete-block-molding mold; Concrete-building-construction mold; Concrete-culvert mold; Concrete-tile mold; Concrete-wall mold; Concrete-wall-construction mold; Cornice-mold; Culvert-mold; Cylinder-mold; Fence-post mold; Flue-block mold; Hollow-article mold; Ice-cream mold; Ingot-mold; Insulator-mold; Metal mold; Multiple mold; Permanent mold; Pipe-mold; Pipe-section mold; Post-mold; Saw-tooth mold; Scaffold or mold; Sound-record mold; Steel-mold; Stone-mold; Stoppie-mold; Tile-mold; Tile press-mold; Type-mold; Vulcanizing-mold; Wall-mold.  
 Mold. H. Lammon and J. Manska. No. 910,695; Jan. 26; Sp. p. 4638; Gaz. vol. 138; p. 843.  
 Mold. J. K. Williams. No. 911,861; Feb. 9; Sp. p. 1629; Gaz. vol. 139; p. 302.  
 Mold. G. Bauer. No. 912,528; Feb. 16; Sp. p. 3115; Gaz. vol. 139; p. 560.  
 Mold. L. Diaz. No. 912,829; Feb. 16; Sp. p. 3773; Gaz. vol. 139; p. 663.  
 Mold. J. L. Sackett. No. 913,057; Feb. 16; Sp. p. 4202; Gaz. vol. 139; p. 760.  
 Mold. J. H. Finkle. No. 914,818; Mar. 9; Sp. p. 2436; Gaz. vol. 140; p. 409.  
 Mold. W. E. Frost. No. 915,283; Mar. 16; Sp. p. 3363; Gaz. vol. 140; p. 587.  
 Mold. J. F. Hill and C. M. Peckham. No. 916,705; Mar. 30; Sp. p. 6183; Gaz. vol. 140; p. 1107.  
 Mold. J. F. Evert and F. Ryder. No. 918,026; Apr. 13; Sp. p. 2176; Gaz. vol. 141; p. 390.  
 Mold. L. D. Irish. No. 924,553; June 8; Sp. p. 3133; Gaz. vol. 143; p. 511.  
 Mold. J. F. Monnot. No. 928,470; July 20; Sp. p. 3686; Gaz. vol. 144; p. 648.  
 Mold. L. A. Brown. No. 928,493; July 20; Sp. p. 3725; Gaz. vol. 144; p. 655.  
 Mold. J. R. Haldeman. No. 929,938; Aug. 3; Sp. p. 673; Gaz. vol. 145; p. 107.  
 Mold. J. B. Blaw. No. 933,017; Aug. 31; Sp. p. 7123; Gaz. vol. 145; p. 1224.  
 Mold. J. N. Erixon. No. 939,819; Nov. 9; Sp. p. 3019; Gaz. vol. 148; p. 497.  
 Mold. J. R. Kay. No. 940,463; Nov. 16; Sp. p. 4488; Gaz. vol. 148; p. 750.  
 Mold and casting device, Combined. G. A. Stotz. No. 920,684; May 4; Sp. p. 1209; Gaz. vol. 142; p. 194.  
 Mold and making same. E. A. Conner. No. 915,555; Mar. 16; Sp. p. 3927; Gaz. vol. 140; p. 677.  
 Mold-fastening device. J. H. Sullivan. No. 920,787; May 4; Sp. p. 1407; Gaz. vol. 142; p. 227.  
 Mold filling and tamping apparatus. O. P. and R. L. Raber, J. E. Lang, and F. M. Wiltout. No. 911,757; Feb. 9; Sp. p. 1447; Gaz. vol. 139; p. 269.  
 Mold-flask. R. K. Story. No. 917,678; Apr. 6; Sp. p. 1385; Gaz. vol. 141; p. 244.  
 Mold for casting sash-weights. J. C. and G. L. George. No. 928,441; July 20; Sp. p. 3632; Gaz. vol. 144; p. 639.  
 Mold-forming machine. F. A. Phelps. No. 915,215; Mar. 16; Sp. p. 3240; Gaz. vol. 140; p. 566.  
 Mold-making machine. H. R. Atwater. No. 937,036; Oct. 19; Sp. p. 2991; Gaz. vol. 147; p. 525.  
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 Mold or centering device. J. E. Dooley. No. 910,046; Jan. 19; Sp. p. 3256; Gaz. vol. 138; p. 599.  
 Mold-ramming apparatus. H. Henderson. No. 931,199; Aug. 17; Sp. p. 3331; Gaz. vol. 145; p. 579.  
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 Molds, Composition of matter for. R. Herbst. No. 933,982; Sept. 14; Sp. p. 2073; Gaz. vol. 146; p. 342.  
 Molds, Flask for forming gaged. C. W. Blue. No. 936,081; Oct. 5; Sp. p. 1019; Gaz. vol. 147; p. 154.  
 Molds for electrotypes, Preparing. G. E. Dunton. No. 914,816; Mar. 9; Sp. p. 2431; Gaz. vol. 140; p. 409.  
 Molds, Method of and apparatus for forming. F. W. Taylor and W. Lewis. No. 925,249; June 15; Sp. p. 4559; Gaz. vol. 143; p. 779.  
 Molds, Tool for stopping run-outs in. E. W. Conarton. No. 924,740; June 15; Sp. p. 3545; Gaz. vol. 143; p. 608.  
 Molds with molding material, Loading. C. W. Carter. No. 921,082; May 11; Sp. p. 2019; Gaz. vol. 142; p. 355.  
 Molded receptacle. H. B. Smith. No. 915,048; Mar. 9; Sp. p. 2856; Gaz. vol. 140; p. 484.  
 Molder's chaplet. R. B. Haskins. No. 935,978; Oct. 5; Sp. p. 807; Gaz. vol. 147; p. 119.  
 Molder's flask. E. T. McHugh. No. 928,000; July 13; Sp. p. 2694; Gaz. vol. 144; p. 459.  
 Molders' flasks, Match-plate for. E. T. McHugh. No. 927,999; July 13; Sp. p. 2692; Gaz. vol. 144; p. 459.  
 Molder's snap-flask. H. G. Voight. No. 921,922; May 18; Sp. p. 3768; Gaz. vol. 142; p. 663.  
 Molding. T. J. Palmer. No. 937,714; Oct. 19; Sp. p. 4406; Gaz. vol. 147; p. 748.  
 Molding apparatus. H. L. Demmler. No. 910,651; Jan. 26; Sp. p. 4564; Gaz. vol. 138; p. 830.  
 Molding apparatus. S. Griffith. No. 943,126; Feb. 23; Sp. p. 4336; Gaz. vol. 139; p. 784.  
 Molding apparatus. G. S. Searle. No. 918,779; Apr. 20; Sp. p. 3774; Gaz. vol. 141; p. 669.  
 Molding apparatus. J. H. Danver and W. H. Lose. No. 924,436; June 8; Sp. p. 2891; Gaz. vol. 143; p. 473.  
 Molding apparatus. M. J. Pignarre. No. 926,893; July 6; Sp. p. 392; Gaz. vol. 144; p. 63.  
 Molding apparatus. J. D. Sullivan. No. 941,287; Nov. 23; Sp. p. 6276; Gaz. vol. 148; p. 1050.  
 Molding apparatus, Gravity. D. Parks. No. 910,718; Jan. 26; Sp. p. 4676; Gaz. vol. 138; p. 850.  
 Molding-apparatus guides, Forming. J. H. Danver and W. H. Lose. No. 925,686; June 22; Sp. p. 5417; Gaz. vol. 143; p. 948.  
 Molding-apparatus guiding device. J. H. Danver and W. H. Lose. No. 925,687; June 22; Sp. p. 5419; Gaz. vol. 143; p. 948.  
 Molding appliance. W. H. Crum. No. 930,844; Aug. 10; Sp. p. 2502; Gaz. vol. 145; p. 433.  
 Molding articles. L. H. Baekeland. No. 939,966; Nov. 16; Sp. p. 3339; Gaz. vol. 148; p. 578.  
 Molding bases upon fence-posts, Machine for. C. S. Long. No. 912,249; Feb. 9; Sp. p. 2478; Gaz. vol. 139; p. 427.  
 Molding-box, &c. A. Schrag. No. 915,489; Mar. 16; Sp. p. 3769; Gaz. vol. 140; p. 656.  
 Molding-branch block. E. Sullivan. No. 926,148; June 29; Sp. p. 6405; Gaz. vol. 143; p. 1137.  
 Molding-cutter, Rotary. L. M. Jones. No. 915,966; Mar. 23; Sp. p. 4746; Gaz. vol. 140; p. 840.  
 Molding device. A. M. Thompson. No. 928,714; July 20; Sp. p. 4176; Gaz. vol. 144; p. 728.  
 Molding-flask. J. D. Millar. No. 939,849; Nov. 9; Sp. p. 3075; Gaz. vol. 148; p. 508.  
 Molding hollow articles in sand by means of divided patterns. E. and T. Reifsum. No. 925,724; June 22; Sp. p. 5508; Gaz. vol. 143; p. 960.  
 Molding-machine. W. C. Swift. No. 910,028; Jan. 19; Sp. p. 3215; Gaz. vol. 138; p. 593.  
 Molding-machine. P. Bonvillain and E. Ronceray. No. 910,167; Jan. 19; Sp. p. 3490; Gaz. vol. 138; p. 638.  
 Molding-machine. J. Butler. No. 910,640; Jan. 26; Sp. p. 4538; Gaz. vol. 138; p. 827.  
 Molding-machine. D. Parks. No. 911,066; Feb. 2; Sp. p. 86; Gaz. vol. 139; p. 16.  
 Molding-machine. J. T. Brent, Second. No. 913,194; Feb. 23; Sp. p. 4479; Gaz. vol. 139; p. 807.  
 Molding-machine. F. A. Whitmore. No. 914,770; Mar. 9; Sp. p. 2353; Gaz. vol. 140; p. 395.  
 Molding-machine. A. O. Buckius, Jr. No. 915,158; Mar. 16; Sp. p. 3121; Gaz. vol. 140; p. 547.  
 Molding-machine. M. K. Weigel. No. 916,511; Mar. 30; Sp. p. 5829; Gaz. vol. 140; p. 1046.  
 Molding-machine. W. H. Hofmann. No. 918,551; Apr. 20; Sp. p. 3247; Gaz. vol. 141; p. 592.  
 Molding-machine. R. C. Meyers. No. 924,366; June 8; Sp. p. 2766; Gaz. vol. 143; p. 451.  
 Molding-machine. W. B. Bolles. No. 928,354; July 20; Sp. p. 3461; Gaz. vol. 144; p. 610.  
 Molding-machine. T. E. McNamara. No. 928,786; July 20; Sp. p. 4309; Gaz. vol. 144; p. 752.  
 Molding-machine. W. E. McCleary. No. 933,485; Sept. 7; Sp. p. 1077; Gaz. vol. 146; p. 155.  
 Molding-machine. J. Kiburz. No. 933,761; Sept. 14; Sp. p. 1640; Gaz. vol. 146; p. 270.  
 Molding-machine. E. H. Ryon. No. 936,569; Oct. 12; Sp. p. 2049; Gaz. vol. 147; p. 339.  
 Molding-machine. W. J. Sterling. No. 937,885; Oct. 26; Sp. p. 4765; Gaz. vol. 147; p. 824.  
 Molding-machine. H. H. Harris. No. 938,321; Oct. 26; Sp. p. 5703; Gaz. vol. 147; p. 971.  
 Molding-machine. C. Mills. No. 938,684; Nov. 2; Sp. p. 529; Gaz. vol. 148; p. 81.  
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Molding-machine. W. F. Kerlin and E. W. Bowen. No. 941,930; Nov. 30; Sp. p. 7647; Gaz. vol. 148; p. 1288.  
Molding-machine. W. Lewis. No. 941,999; Nov. 30; Sp. p. 7773; Gaz. vol. 148; p. 1310.  
Molding-machine. S. F. Nicolai. No. 942,457; Dec. 7; Sp. p. 897; Gaz. vol. 149; p. 145.  
Molding-machine. L. L. Rich. No. 944,747; Dec. 28; Sp. p. 5872; Gaz. vol. 149; p. 1012.  
Molding-machine flat-gate. F. E. Smith. No. 917,371; Apr. 6; Sp. p. 840; Gaz. vol. 141; p. 144.  
Molding, Machine for use in drawing patterns in. S. Stretties. No. 942,419; Dec. 7; Sp. p. 805; Gaz. vol. 149; p. 131.  
Molding mechanism. W. Zimmermann. No. 939,581; Nov. 9; Sp. p. 2510; Gaz. vol. 148; p. 415.  
Molding-polishing machine. A. Stake. No. 927,695; July 13; Sp. p. 2071; Gaz. vol. 144; p. 359.  
Molding-press. E. C. Williams. No. 943,504; Dec. 14; Sp. p. 3164; Gaz. vol. 149; p. 532.  
Money-box. J. Nutry. No. 922,321; May 18; Sp. p. 4565; Gaz. vol. 142; p. 793.  
Money-box. J. Nutry. No. 934,207; Sept. 14; Sp. p. 2520; Gaz. vol. 146; p. 416.  
Money-drawer, Disinfecting. D. and H. H. Goldman. No. 923,165; June 1; Sp. p. 94; Gaz. vol. 143; p. 16.  
Money-receptacle. C. E. Johnson. No. 915,676; Mar. 16; Sp. p. 4184; Gaz. vol. 140; p. 721.  
Monkey-wrench. J. Mason. No. 921,860; May 18; Sp. p. 3655; Gaz. vol. 142; p. 644.  
Monkey-wrench, Folding. J. P. Nikonow. No. 909,205; Jan. 12; Sp. p. 1596; Gaz. vol. 138; p. 287.  
Monkey-wrench, Quick-action. J. L. Beers. No. 915,540; Mar. 16; Sp. p. 3876; Gaz. vol. 140; p. 672.  
Monkey-wrench, Ratchet. A. C. Jenrich. No. 928,764; July 20; Sp. p. 4275; Gaz. vol. 144; p. 745.  
Mono-brom-trichloro indigo and making same. G. Engi. No. 915,338; Mar. 16; Sp. p. 3471; Gaz. vol. 140; p. 606.  
Monocycle. S. A. Morris. No. 914,597; Mar. 9; Sp. p. 1980; Gaz. vol. 140; p. 338.  
Monocycle. D. Penteado. Jr. No. 919,070; Apr. 20; Sp. p. 4371; Gaz. vol. 141; p. 763.  
Monogram-holder. J. L. Des Lauries. No. 936,766; Oct. 12; Sp. p. 2444; Gaz. vol. 147; p. 406.  
Mop. A. F. Brown. No. 911,199; Feb. 2; Sp. p. 347; Gaz. vol. 139; p. 60.  
Mop. C. H. Davis. No. 925,758; June 22; Sp. p. 5603; Gaz. vol. 143; p. 972.  
Mop. W. F. Loan. No. 928,991; July 27; Sp. p. 4736; Gaz. vol. 144; p. 849.  
Mop. A. L. Tribble. No. 932,070; Aug. 24; Sp. p. 5209; Gaz. vol. 145; p. 889.  
Mop. J. F. McLaughlin. No. 936,655; Oct. 12; Sp. p. 2232; Gaz. vol. 147; p. 370.  
Mop. J. F. McLaughlin. No. 937,007; Oct. 12; Sp. p. 2914; Gaz. vol. 147; p. 485.  
Mop. G. B. Wichmann and D. Rich. No. 939,883; Nov. 9; Sp. p. 3148; Gaz. vol. 148; p. 519.  
Mop and brush fabric making machine. L. Stocker. No. 913,318; Feb. 23; Sp. p. 4736; Gaz. vol. 139; p. 849.  
Mop and brush holder. J. C. Look. No. 923,282; June 1; Sp. p. 396; Gaz. vol. 143; p. 56.  
Mop, Floor-. J. S. Hoover. No. 930,546; Aug. 10; Sp. p. 1900; Gaz. vol. 145; p. 335.  
Mop-head. F. W. Pendergast. No. 909,449; Jan. 12; Sp. p. 2054; Gaz. vol. 138; p. 365.  
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Mop-head. L. W. Merriam. No. 911,894; Feb. 9; Sp. p. 1696; Gaz. vol. 139; p. 314.  
Mop head and wringer, Combined. L. J. Moody. No. 938,685; Nov. 2; Sp. p. 532; Gaz. vol. 148; p. 82.  
Mop-making machine. A. Lackey. No. 935,264; Sept. 28; Sp. p. 4603; Gaz. vol. 146; p. 818.  
Mop or brush handle. W. W. Taylor. No. 917,908; Apr. 13; Sp. p. 1920; Gaz. vol. 141; p. 347.  
Mop-wringer. W. Moffat. No. 909,442; Jan. 12; Sp. p. 2040; Gaz. vol. 138; p. 363.  
Mop-wringer. G. Brenner. No. 910,779; Jan. 26; Sp. p. 4812; Gaz. vol. 138; p. 870.  
Mop-wringer. J. Santin. No. 912,033; Feb. 9; Sp. p. 2065; Gaz. vol. 139; p. 359.  
Mop-wringer. J. J. Davis. No. 921,267; May 11; Sp. p. 2276; Gaz. vol. 142; p. 400.  
Mop-wringer. J. A. White. No. 923,391; June 1; Sp. p. 648; Gaz. vol. 143; p. 93.  
Mop-wringer. W. P. Scheets. No. 925,657; June 22; Sp. p. 5361; Gaz. vol. 143; p. 939.  
Mop-wringer. M. E. Davis. No. 942,135; Dec. 7; Sp. p. 232; Gaz. vol. 149; p. 35.  
Mop-wringer. C. Callis and W. D. Fulbright. No. 943,650; Dec. 21; Sp. p. 3514; Gaz. vol. 149; p. 612.  
Mop-wringer. M. M. Flynn. No. 944,728; Dec. 28; Sp. p. 5812; Gaz. vol. 149; p. 1005.  
Mop-wringer attachment. W. F. McLaughlin. No. 919,920; Apr. 27; Sp. p. 6342; Gaz. vol. 141; p. 1083.  
Mop-wringer, Folding. F. H. Jaeger. No. 930,182; Aug. 3; Sp. p. 1177; Gaz. vol. 145; p. 191.  
Mortar and concrete formations, Solidifying. R. C. Stubbs. No. 918,388; Apr. 13; Sp. p. 2891; Gaz. vol. 141; p. 510.  
Mortar-mixer. G. D. Scheffler. No. 922,724; May 25; Sp. p. 5406; Gaz. vol. 142; p. 953.  
Mortar-mixer. P. L. Blystone. No. 925,744; June 22; Sp. p. 5551; Gaz. vol. 143; p. 967.  
Mortar or concrete mixer. A. M. Peterson. No. 940,552; Nov. 16; Sp. p. 4689; Gaz. vol. 148; p. 780.  
Mortise-lock. A. Tanner. No. 936,185; Oct. 5; Sp. p. 1229; Gaz. vol. 147; p. 185.  
Mortise-marking device. C. Sturtz. No. 936,579; Oct. 12; Sp. p. 2068; Gaz. vol. 147; p. 342.  
Mortise-nail. A. T. Burch. No. 920,535; May 4; Sp. p. 898; Gaz. vol. 142; p. 145.  
Mortising-machine. G. W. Campbell. No. 921,795; May 18; Sp. p. 3500; Gaz. vol. 142; p. 622.  
Mortising-machines, Pneumatic attachment for. E. E. Houghton. No. 928,758; July 20; Sp. p. 4266; Gaz. vol. 144; p. 743.  
Mortising-plane. I. W. Letner. No. 914,962; Mar. 9; Sp. p. 2710; Gaz. vol. 140; p. 456.  
Mortising tool or chisel. O. L. Smith. No. 924,199; June 8; Sp. p. 2423; Gaz. vol. 143; p. 394.  
Mosquito-bar frame. J. G. Malaby. No. 927,738; July 13; Sp. p. 2151; Gaz. vol. 144; p. 372.  
Mosquito-bar holder. N. L. Mèlançon. No. 911,422; Feb. 2; Sp. p. 775; Gaz. vol. 139; p. 135.  
Moistproof bag. T. Bell. No. 916,093; Mar. 23; Sp. p. 4981; Gaz. vol. 140; p. 882.  
Motion, Mechanism for converting reciprocating into rotary. O. Schoell. No. 924,003; June 8; Sp. p. 1988; Gaz. vol. 143; p. 331.  
Motion, Mechanism for converting rotatory into reciprocating. J. Myrholm. No. 939,063; Nov. 2; Sp. p. 1311; Gaz. vol. 148; p. 212.  
Motive fluid, Producing. H. Maxim. No. 931,135; Aug. 17; Sp. p. 3183; Gaz. vol. 145; p. 557.  
Motive-power apparatus. H. K. Hess. No. 912,567; Feb. 16; Sp. p. 3199; Gaz. vol. 139; p. 573.  
Motive-power apparatus. C. J. Lake. No. 914,583; Mar. 9; Sp. p. 1948; Gaz. vol. 140; p. 333.  
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Motive-powersystem. A. Wiltam. No. 940,769; Nov. 23; Sp. p. 5171; Gaz. vol. 148; p. 878.  
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Motor. W. C. Whitcomb. No. 908,922; Jan. 5; Sp. p. 1009; Gaz. vol. 138; p. 162.  
Motor. M. Logar. No. 910,005; Jan. 19; Sp. p. 3171; Gaz. vol. 138; p. 580.  
Motor. F. Stauch. No. 912,914; Feb. 16; Sp. p. 3905; Gaz. vol. 139; p. 688.  
Motor. J. Bang and F. Neil. No. 916,969; Apr. 6; Sp. p. 17; Gaz. vol. 140; p. 6.  
Motor. C. Enrietti. No. 925,318; June 15; Sp. p. 4685; Gaz. vol. 143; p. 800.  
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Motor. J. E. Morrison. No. 928,782; July 20; Sp. p. 4305; Gaz. vol. 144; p. 751.  
Motor. E. E. Yaxley. No. 929,744; Aug. 3; Sp. p. 227; Gaz. vol. 145; p. 40.  
Motor. G. Keller. No. 944,441; Dec. 28; Sp. p. 5168; Gaz. vol. 149; p. 907.  
Motor. E. H. Herndon. No. 945,001; Dec. 28; Sp. p. 6380; Gaz. vol. 149; p. 1095.  
Motor and air-compressor, Combined. W. Krygowski. No. 917,081; Apr. 6; Sp. p. 241; Gaz. vol. 141; p. 44.  
Motor automatic starting device, Electric-. I. Hansen. No. 910,676; Jan. 26; Sp. p. 4602; Gaz. vol. 138; p. 837.  
Motor-boat steering device. H. J. Perkins. No. 911,069; Feb. 2; Sp. p. 90; Gaz. vol. 139; p. 17.  
Motor brush-holder. H. C. Grant. No. 931,415; Aug. 17; Sp. p. 3796; Gaz. vol. 145; p. 655.  
Motor-commutator. A. J. Pfaff. No. 912,612; Feb. 16; Sp. p. 3291; Gaz. vol. 139; p. 590.  
Motor construction, Induction-. H. F. Elshoff. No. 911,481; Feb. 2; Sp. p. 860; Gaz. vol. 139; p. 152.  
Motor control. H. H. Clark. No. 912,074; Feb. 9; Sp. p. 2160; Gaz. vol. 139; p. 373.  
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- Motor-control apparatus. W. O. Lum. No. 937,451; Oct. 19; Sp. p. 3885; Gaz. vol. 147; p. 661.
- Motor-control, Automatic. S. H. Kamnacher. No. 923,186; June 1; Sp. p. 140; Gaz. vol. 143; p. 23.
- Motor control, Electric. D. C. Jackson. No. 923,973; June 8; Sp. p. 1926; Gaz. vol. 143; p. 321.
- Motor control, Electric. H. A. Mavor. No. 944,453; Dec. 28; Sp. p. 5198; Gaz. vol. 149; p. 911.
- Motor control, Induction. F. E. Case. No. 919,537; Apr. 27; Sp. p. 5548; Gaz. vol. 141; p. 954.
- Motor control, Single-phase. E. F. W. Alexanderson. No. 923,312; June 1; Sp. p. 472; Gaz. vol. 143; p. 67.
- Motor control, Single-phase. E. F. W. Alexanderson. No. 927,397; July 6; Sp. p. 1383; Gaz. vol. 144; p. 230.
- Motor-control system. H. D. James. No. 911,013; Jan. 26; Sp. p. 5246; Gaz. vol. 138; p. 945.
- Motor-control system. G. F. Atwood. No. 911,932; Feb. 9; Sp. p. 1771; Gaz. vol. 139; p. 326.
- Motor-control system. E. W. Stull. No. 916,898; Mar. 30; Sp. p. 6533; Gaz. vol. 140; p. 1160.
- Motor-control system. J. F. Tittle. No. 917,189; Apr. 6; Sp. p. 462; Gaz. vol. 141; p. 81.
- Motor-control system. J. F. Tittle. No. 917,190; Apr. 6; Sp. p. 464; Gaz. vol. 141; p. 82.
- Motor-control system. H. E. White. No. 917,222; Apr. 6; Sp. p. 532; Gaz. vol. 141; p. 93.
- Motor-control system. A. H. Armstrong. No. 919,302; Apr. 27; Sp. p. 5035; Gaz. vol. 141; p. 874.
- Motor-control system. H. E. White. No. 921,768; May 18; Sp. p. 3452; Gaz. vol. 142; p. 614.
- Motor-control system. H. F. Stratton. No. 922,540; May 25; Sp. p. 5034; Gaz. vol. 142; p. 894.
- Motor-control system. J. A. Seede. No. 927,178; July 6; Sp. p. 991; Gaz. vol. 144; p. 161.
- Motor-control system. W. Naumann. No. 927,426; July 6; Sp. p. 1456; Gaz. vol. 144; p. 241.
- Motor-control system. E. F. W. Alexanderson. No. 940,112; Nov. 16; Sp. p. 3697; Gaz. vol. 148; p. 630.
- Motor-control system. H. E. White. No. 941,397; Nov. 30; Sp. p. 6521; Gaz. vol. 148; p. 1108.
- Motor-control system. P. H. Thomas. No. 945,006; Dec. 28; Sp. p. 6395; Gaz. vol. 149; p. 1097.
- Motor-control system. P. H. Thomas. No. 945,008; Dec. 28; Sp. p. 6399; Gaz. vol. 149; p. 1097.
- Motor-control system, Electric. H. D. James. No. 924,667; June 15; Sp. p. 3385; Gaz. vol. 143; p. 583.
- Motor-control system, Electric. H. D. James and W. A. Dick. No. 924,785; June 15; Sp. p. 3636; Gaz. vol. 143; p. 624.
- Motor-control system, Electric. H. D. James. No. 924,786; June 15; Sp. p. 3639; Gaz. vol. 143; p. 624.
- Motor-control system, Electric. H. L. Beach. No. 929,186; July 27; Sp. p. 5149; Gaz. vol. 144; p. 913.
- Motor-control system, Electric. H. L. Beach. No. 929,187; July 27; Sp. p. 5153; Gaz. vol. 144; p. 914.
- Motor-control system, Electric. J. N. Mahoney. No. 938,160; Oct. 26; Sp. p. 5369; Gaz. vol. 147; p. 916.
- Motor-control system, Electric. A. C. Eastwood. No. 940,241; Nov. 16; Sp. p. 3967; Gaz. vol. 148; p. 675.
- Motor-control system, Electric. A. C. Eastwood. No. 943,011; Dec. 14; Sp. p. 2118; Gaz. vol. 149; p. 363.
- Motor control, System of electric. H. C. Soule. No. 934,470; Sept. 21; Sp. p. 3025; Gaz. vol. 146; p. 527.
- Motor-controller. F. P. Townsend. No. 910,098; Jan. 19; Sp. p. 3352; Gaz. vol. 138; p. 617.
- Motor-controller. H. W. Cheney. No. 931,384; Aug. 17; Sp. p. 3738; Gaz. vol. 145; p. 644.
- Motor-controller. A. Kimble. No. 942,382; Dec. 7; Sp. p. 727; Gaz. vol. 149; p. 119.
- Motor controller, Electric. W. A. Paris. No. 910,951; Jan. 26; Sp. p. 5136; Gaz. vol. 138; p. 925.
- Motor controller, Electric. T. S. Perkins. No. 914,972; Mar. 9; Sp. p. 2726; Gaz. vol. 140; p. 459.
- Motor controller, Electric. H. W. Cheney. No. 921,589; May 11; Sp. p. 3051; Gaz. vol. 142; p. 524.
- Motor controller, Electric. V. E. Chamberlin. No. 928,028; July 13; Sp. p. 2755; Gaz. vol. 144; p. 470.
- Motor controller, Electric. F. L. Sessions. No. 934,097; Sept. 14; Sp. p. 2299; Gaz. vol. 146; p. 378.
- Motor controller, Electric. O. F. Shepard. No. 936,952; Oct. 12; Sp. p. 2800; Gaz. vol. 147; p. 468.
- Motor controller, Electric. F. Diehl. No. 938,649; Nov. 2; Sp. p. 445; Gaz. vol. 148; p. 69.
- Motor-controlling apparatus, Electric. H. E. Dey. No. 942,196; Dec. 7; Sp. p. 363; Gaz. vol. 149; p. 55.
- Motor-controlling apparatus, Electric. H. E. Dey. No. 942,197; Dec. 7; Sp. p. 365; Gaz. vol. 149; p. 55.
- Motor-controlling apparatus, Electric. H. E. Dey. No. 942,198; Dec. 7; Sp. p. 367; Gaz. vol. 149; p. 55.
- Motor-controlling device. C. E. Carpenter. No. 910,042; Jan. 19; Sp. p. 3243; Gaz. vol. 138; p. 598.
- Motor-controlling device. G. H. Dorgeloh. No. 917,023; Apr. 6; Sp. p. 130; Gaz. vol. 141; p. 25.
- Motor-controlling device. J. P. Tarbox. No. 917,183; Apr. 6; Sp. p. 448; Gaz. vol. 141; p. 78.
- Motor-controlling device. R. M. Klein and D. R. Sperry. No. 925,108; June 15; Sp. p. 4295; Gaz. vol. 143; p. 732.
- Motor-controlling device. L. Janisch. No. 926,874; July 6; Sp. p. 356; Gaz. vol. 144; p. 57.
- Motor-controlling device. T. E. Barnum. No. 942,050; Dec. 7; Sp. p. 12; Gaz. vol. 149; p. 5.
- Motor-controlling device, Electric. C. D. Knight. No. 930,603; Aug. 10; Sp. p. 2019; Gaz. vol. 145; p. 354.
- Motor-controlling device, Electric. E. H. Geist. No. 934,301; Sept. 14; Sp. p. 2698; Gaz. vol. 146; p. 448.
- Motor-controlling mechanism. L. Roberson. No. 925,653; June 22; Sp. p. 5355; Gaz. vol. 143; p. 938.
- Motor-controlling rheostat. W. C. Yates. No. 910,343; Jan. 19; Sp. p. 3909; Gaz. vol. 138; p. 703.
- Motor-cylinder. D. Reid. No. 927,075; July 6; Sp. p. 792; Gaz. vol. 144; p. 126.
- Motor-driven twisting element for spinning, doubling, and twisting machines. S. Z. de Ferranti. No. 930,850; Aug. 10; Sp. p. 2518; Gaz. vol. 145; p. 435.
- Motor-engine. J. Harman. No. 934,968; Sept. 21; Sp. p. 4005; Gaz. vol. 146; p. 696.
- Motor for oil-pumps, &c. W. S. Sherman. No. 909,952; Jan. 19; Sp. p. 3075; Gaz. vol. 138; p. 569.
- Motor for portable grain-dumps, Hydraulic. J. E. Camp. No. 909,278; Jan. 12; Sp. p. 1727; Gaz. vol. 138; p. 311.
- Motor for wagon-dumps, Hydraulic. J. E. Camp. No. 909,279; Jan. 12; Sp. p. 1732; Gaz. vol. 138; p. 311.
- Motor for wagon-dumps, Hydraulic. J. E. Camp. No. 909,280; Jan. 12; Sp. p. 1735; Gaz. vol. 138; p. 312.
- Motor-generator set. W. A. Danielson. No. 941,439; Nov. 30; Sp. p. 6611; Gaz. vol. 148; p. 1121.
- Motor-governor. H. E. Warren. No. 936,261; Oct. 5; Sp. p. 1356; Gaz. vol. 147; p. 209.
- Motor ignition apparatus, Multiple-cylinder. B. L. Lawton. No. 911,414; Feb. 2; Sp. p. 756; Gaz. vol. 139; p. 131.
- Motor-meter for alternating currents. R. C. Lanphier and J. H. Hodde. No. 910,550; Jan. 26; Sp. p. 4340; Gaz. vol. 138; p. 797.
- Motor meter, Mercury. R. C. Lanphier and O. White. No. 911,020; Jan. 26; Sp. p. 5267; Gaz. vol. 138; p. 947.
- Motor more especially applicable for driving barges, wherries, flatboats, and the like. G. Trouche. No. 941,827; Nov. 30; Sp. p. 7447; Gaz. vol. 148; p. 1252.
- Motor speed-control mechanism, Air. N. D. Hosley. No. 929,593; July 27; Sp. p. 5947; Gaz. vol. 144; p. 1046.
- Motor-starter. M. R. Hanna. No. 941,412; Nov. 30; Sp. p. 6566; Gaz. vol. 148; p. 1113.
- Motor-starter, Automatic. W. C. Yates. No. 910,762; Jan. 26; Sp. p. 4781; Gaz. vol. 138; p. 865.
- Motor-starter, Automatic. C. T. Henderson and C. H. Miller. No. 921,398; May 11; Sp. p. 2692; Gaz. vol. 142; p. 462.
- Motor-starter, Automatic. W. F. Hendry. No. 921,989; May 18; Sp. p. 3915; Gaz. vol. 142; p. 684.
- Motor starter, Electric. W. C. O'Brien. (Reissue.) No. 12,947; Apr. 27; Sp. p. 6753; Gaz. vol. 141; p. 1143.
- Motor starting and stopping apparatus, Electric. C. Spannagel. No. 943,047; Dec. 14; Sp. p. 2214; Gaz. vol. 149; p. 376.
- Motor-starting apparatus, Electric. S. B. Paine. No. 940,550; Nov. 16; Sp. p. 4684; Gaz. vol. 148; p. 779.
- Motor-starting device. F. J. Gucken. No. 916,303; Mar. 23; Sp. p. 5359; Gaz. vol. 140; p. 950.
- Motor-starting device. W. O. Lum. No. 916,343; Mar. 23; Sp. p. 5432; Gaz. vol. 140; p. 965.
- Motor starting device, Electric. C. D. Knight. No. 913,512; Feb. 23; Sp. p. 5114; Gaz. vol. 139; p. 913.
- Motor starting device, Electric. H. M. Scheibe. No. 934,466; Sept. 21; Sp. p. 3020; Gaz. vol. 146; p. 526.
- Motor starting device, Electric. K. von Dreger. No. 923,157; June 1; Sp. p. 79; Gaz. vol. 143; p. 13.
- Motor starting device, Internal-combustion. E. L. Sharpneck. No. 942,467; Dec. 7; Sp. p. 919; Gaz. vol. 149; p. 148.
- Motor starting switch, Electric. E. Garside. No. 942,960; Dec. 14; Sp. p. 1995; Gaz. vol. 149; p. 346.
- Motor system, Alternating-current. C. S. Bradley. No. 910,638; Jan. 26; Sp. p. 4535; Gaz. vol. 138; p. 826.
- Motor-system control. E. Gruenfeldt. No. 913,282; Feb. 23; Sp. p. 4656; Gaz. vol. 139; p. 835.
- Motors, Apparatus for injecting fuel into internal-combustion. F. Dürr. No. 924,044; June 8; Sp. p. 2057; Gaz. vol. 143; p. 342.
- Motors, Apparatus for the magnetic ignition in explosion. G. A. Unterberg. No. 909,483; Jan. 12; Sp. p. 2125; Gaz. vol. 138; p. 377.
- Motors, Arrangement for regulation of speed of compensated single-phase. E. Arnold and J. L. La Cour. No. 940,492; Nov. 16; Sp. p. 4548; Gaz. vol. 148; p. 760.
- Motors, Automatic speed-regulator for pneumatic. J. Wieser. No. 929,264; July 27; Sp. p. 5305; Gaz. vol. 144; p. 938.
- Motors, &c., Automatic starting device for explosion. E. Cantono. No. 944,316; Dec. 28; Sp. p. 4895; Gaz. vol. 149; p. 862.
- Motors, Controlling electric. J. L. Routin. No. 935,327; Sept. 28; Sp. p. 4729; Gaz. vol. 146; p. 839.
- Motors, Electromagnetically-operated interrupter igniting device for explosion. G. Honold. No. 920,745; May 4; Sp. p. 1320; Gaz. vol. 142; p. 214.
- Motors, Governing device for two-stroke cycle internal-combustion. G. W. Thexton. No. 909,256; Jan. 12; Sp. p. 1683; Gaz. vol. 138; p. 303.
- Motors, Heating of compressed air for use in. W. H. Sodeau. No. 944,975; Dec. 28; Sp. p. 6333; Gaz. vol. 149; p. 1081.
- Motors, Igniter for internal-combustion. H. A. Johnston. No. 942,328; Dec. 7; Sp. p. 635; Gaz. vol. 149; p. 101.
- Motors, Means for connecting circuit-wires to electric. A. L. Goldschmidt. No. 918,844; Apr. 20; Sp. p. 3917; Gaz. vol. 141; p. 690.
- Motors, Means for cooling electric. J. B. Wiard. No. 920,798; May 4; Sp. p. 1431; Gaz. vol. 142; p. 231.
- Motors, Means for protecting submerged. H. G. Reist. No. 918,596; Apr. 20; Sp. p. 3336; Gaz. vol. 141; p. 606.



*Alphabetical list of inventions—Continued.*

- Motors, Means for supplying air to hydrocarbon-. A. A. Low. No. 926,756; July 6; Sp. p. 104; Gaz. vol. 144; p. 16.
- Motors, Method of and means for regulating the speed of electric. R. H. Rogers. No. 942,463; Dec. 7; Sp. p. 914; Gaz. vol. 149; p. 147.
- Motors of motor-cars, Cooling device for the. M. Goudard and M. Mennesson. No. 914,822; Mar. 9; Sp. p. 2453; Gaz. vol. 140; p. 411.
- Motors, Operating alternating-current. R. D. Mershon. No. 913,415; Feb. 23; Sp. p. 4917; Gaz. vol. 139; p. 882.
- Motors, Operating multistage prime. P. G. Schmidt. No. 930,564; Aug. 10; Sp. p. 1934; Gaz. vol. 145; p. 341.
- Motors, Self-starter for electric. C. H. Miller. No. 921,430; May 11; Sp. p. 2750; Gaz. vol. 142; p. 474.
- Motors, Short-circuiting device for electric. C. A. Schnur. No. 922,521; May 25; Sp. p. 4985; Gaz. vol. 142; p. 887.
- Motors, Squirrel-cage rotor for electric. E. Heitmann. No. 919,862; Apr. 27; Sp. p. 6235; Gaz. vol. 141; p. 1063.
- Mouth and nose protector. B. Woolf and T. W. Richards. No. 925,409; June 15; Sp. p. 4844; Gaz. vol. 143; p. 828.
- Mouth-brace. C. Mayer. No. 943,361; Dec. 14; Sp. p. 2861; Gaz. vol. 149; p. 481.
- Mouthpiece antiseptic lining. G. M. Scroggs. No. 914,194; Mar. 2; Sp. p. 1161; Gaz. vol. 140; p. 181.
- Moving implement. J. H. Fichter. No. 943,013; Dec. 14; Sp. p. 2125; Gaz. vol. 149; p. 364.
- Mower. W. T. Benham. No. 911,366; Feb. 2; Sp. p. 673; Gaz. vol. 139; p. 115.
- Mower. H. Norman. No. 922,319; May 18; Sp. p. 4559; Gaz. vol. 142; p. 792.
- Mower. E. G. Goodwin. No. 932,697; Aug. 31; Sp. p. 6504; Gaz. vol. 145; p. 1120.
- Mower. A. Kolehmainen. No. 936,137; Oct. 5; Sp. p. 1132; Gaz. vol. 147; p. 172.
- Mower. J. T. Fritsche. No. 936,881; Oct. 12; Sp. p. 2668; Gaz. vol. 147; p. 444.
- Mower attachment. S. E. Staal. No. 922,970; May 25; Sp. p. 5925; Gaz. vol. 142; p. 1033.
- Mower attachment, Lawn-. O. S. Tuttle. No. 931,527; Aug. 17; Sp. p. 4002; Gaz. vol. 145; p. 689.
- Mower cutter, Lawn-. A. B. Case. No. 924,318; June 8; Sp. p. 2672; Gaz. vol. 143; p. 435.
- Mower fly-wheel attachment. J. P. Forst. No. 911,122; Feb. 2; Sp. p. 189; Gaz. vol. 139; p. 36.
- Mower grass-catchers, Conveyor for lawn-. F. E. Harris. No. 926,485; June 29; Sp. p. 7071; Gaz. vol. 143; p. 1247.
- Mower-guard sharpener. C. and G. F. Batke. No. 914,914; Mar. 9; Sp. p. 2629; Gaz. vol. 140; p. 441.
- Mower, Lawn-. J. Urbanick. No. 908,711; Jan. 5; Sp. p. 598; Gaz. vol. 138; p. 93.
- Mower, Lawn-. G. A. Culver. No. 911,559; Feb. 2; Sp. p. 1027; Gaz. vol. 139; p. 177.
- Mower, Lawn-. W. E. Hake. No. 911,719; Feb. 9; Sp. p. 1386; Gaz. vol. 139; p. 258.
- Mower, Lawn-. T. Farr. No. 911,962; Feb. 9; Sp. p. 1915; Gaz. vol. 139; p. 337.
- Mower, Lawn-. J. C. Highfield. No. 912,127; Feb. 9; Sp. p. 2256; Gaz. vol. 139; p. 390.
- Mower, Lawn-. A. L. Le Vine. No. 913,525; Feb. 23; Sp. p. 5151; Gaz. vol. 139; p. 918.
- Mower, Lawn-. C. L. Bergeman. No. 923,403; June 1; Sp. p. 666; Gaz. vol. 143; p. 97.
- Mower, Lawn-. J. H. Auble. No. 929,814; Aug. 3; Sp. p. 393; Gaz. vol. 145; p. 65.
- Mower, Lawn-. L. J. Ertl. No. 930,058; Aug. 3; Sp. p. 921; Gaz. vol. 145; p. 148.
- Mower, Lawn-. J. H. Auble. No. 930,329; Aug. 3; Sp. p. 1420; Gaz. vol. 145; p. 236.
- Mower, Lawn-. E. M. Stapleton. No. 930,428; Aug. 10; Sp. p. 1625; Gaz. vol. 145; p. 294.
- Mower, Lawn-. H. Deck. No. 937,143; Oct. 19; Sp. p. 3206; Gaz. vol. 147; p. 561.
- Mower, Lawn-. N. Walker. No. 937,977; Oct. 26; Sp. p. 4954; Gaz. vol. 147; p. 854.
- Mower, Lawn-. A. B. Case. No. 940,854; Nov. 23; Sp. p. 5344; Gaz. vol. 148; p. 906.
- Mower, Lawn-. H. H. Benson. No. 943,857; Dec. 21; Sp. p. 3919; Gaz. vol. 149; p. 682.
- Mower, Lawn-. A. Berens. No. 944,712; Dec. 28; Sp. p. 5779; Gaz. vol. 149; p. 1000.
- Mower or harvester sickle-guard. W. Gaterman. No. 908,555; Jan. 5; Sp. p. 260; Gaz. vol. 138; p. 44.
- Mower or reaper cutting apparatus. S. Pierson. No. 912,164; Feb. 9; Sp. p. 2315; Gaz. vol. 139; p. 401.
- Mower, Power lawn-. W. P. M. Braun. No. 941,127; Nov. 23; Sp. p. 5922; Gaz. vol. 148; p. 996.
- Mower starting device. J. C. Oliva. No. 943,044; Dec. 14; Sp. p. 2205; Gaz. vol. 149; p. 375.
- Mower track-clearer. G. Braun. No. 925,863; June 22; Sp. p. 5823; Gaz. vol. 143; p. 1008.
- Mower trimming attachment, Lawn-. H. Smith. No. 939,926; Nov. 9; Sp. p. 3250; Gaz. vol. 148; p. 535.
- Mowers, Fender-rod for. J. Dain. No. 921,955; May 18; Sp. p. 3843; Gaz. vol. 142; p. 673.
- Mowers, Gathering and dropping device for. C. A. Rice. No. 933,391; Sept. 7; Sp. p. 810; Gaz. vol. 146; p. 126.
- Mowers, Grass-catcher for lawn-. F. Roush. No. 934,361; Sept. 14; Sp. p. 2804; Gaz. vol. 146; p. 467.
- Mowing-machine. F. Fisher. No. 914,258; Mar. 2; Sp. p. 1289; Gaz. vol. 140; p. 200.
- Mowing-machine. A. M. Leoni. No. 919,039; Apr. 20; Sp. p. 4320; Gaz. vol. 141; p. 754.
- Mowing-machine. A. M. Leoni. No. 919,040; Apr. 20; Sp. p. 4324; Gaz. vol. 141; p. 755.
- Mowing-machine. H. Savage. No. 919,960; Apr. 27; Sp. p. 6413; Gaz. vol. 141; p. 1095.
- Mowing-machine. T. E. Ewer. No. 921,210; May 11; Sp. p. 2280; Gaz. vol. 142; p. 401.
- Mowing-machine. W. E. Gilroy. No. 927,460; July 6; Sp. p. 1544; Gaz. vol. 144; p. 254.
- Mowing-machine. E. F. Ewers. No. 930,168; Aug. 3; Sp. p. 1153; Gaz. vol. 145; p. 187.
- Mowing-machine. G. W. Willis. No. 938,100; Oct. 26; Sp. p. 5225; Gaz. vol. 147; p. 896.
- Mowing-machine. M. Jewell. No. 942,075; Dec. 7; Sp. p. 69; Gaz. vol. 149; p. 14.
- Mowing-machine. W. Crain. No. 943,181; Dec. 14; Sp. p. 2469; Gaz. vol. 149; p. 420.
- Mowing-machine. C. H. Pelton. No. 943,266; Dec. 14; Sp. p. 2651; Gaz. vol. 149; p. 449.
- Mowing-machine buncher attachment. N. G. Hanna. No. 924,775; June 15; Sp. p. 3616; Gaz. vol. 143; p. 620.
- Mowing-machine clover-bunching attachment. S. C. Storer and W. N. McClure. No. 921,305; May 11; Sp. p. 2479; Gaz. vol. 142; p. 430.
- Mowing-machine for railway use. O. L. Olson. No. 914,870; Mar. 9; Sp. p. 2561; Gaz. vol. 140; p. 427.
- Mowing-machines, Brush-cutting attachment for. J. C. Stevens. No. 927,612; July 13; Sp. p. 1880; Gaz. vol. 144; p. 332.
- Mowing-machines, Swather for. S. A. D. Riley. No. 930,617; Aug. 10; Sp. p. 2047; Gaz. vol. 145; p. 359.
- Muck-channel-forming tunnel-track and muck-discharging car, Combined. R. B. Sigafos. No. 912,904; Feb. 16; Sp. p. 3888; Gaz. vol. 139; p. 685.
- Mud-guard. J. X. Davis. No. 914,390; Mar. 9; Sp. p. 1578; Gaz. vol. 140; p. 268.
- Mud-guard. B. L. Jones. No. 923,849; June 8; Sp. p. 1692; Gaz. vol. 143; p. 281.
- Mud-guard. W. J. Chisholm. No. 941,228; Nov. 23; Sp. p. 6147; Gaz. vol. 148; p. 1031.
- Muffin-pan. H. R. Wolfer. No. 924,209; June 8; Sp. p. 2456; Gaz. vol. 143; p. 398.
- Muffler. A. S. Coles. No. 929,656; Aug. 3; Sp. p. 20; Gaz. vol. 145; p. 6.
- Muffler. J. B. Walton. No. 937,665; Oct. 19; Sp. p. 4292; Gaz. vol. 147; p. 732.
- Muffler. H. M. Winters. No. 938,101; Oct. 26; Sp. p. 5226; Gaz. vol. 147; p. 896.
- Muffler. G. C. Hicks, Jr. No. 938,860; Nov. 2; Sp. p. 880; Gaz. vol. 148; p. 141.
- Muffler cut-out and horn-valve, Combined. C. G. Hawley and E. K. Baker. No. 929,944; Aug. 3; Sp. p. 684; Gaz. vol. 145; p. 109.
- Muffler cut-out mechanism. L. S. Chadwick. No. 922,563; May 25; Sp. p. 5083; Gaz. vol. 142; p. 901.
- Muffler, Exhaust-. J. Boyle. No. 943,233; Dec. 14; Sp. p. 2586; Gaz. vol. 149; p. 438.
- Muffler, Exhaust-. C. L. Hensley. No. 943,544; Dec. 14; Sp. p. 3237; Gaz. vol. 149; p. 545.
- Muffler, Exhaust-. J. A. and C. A. Xardell. No. 944,646; Dec. 28; Sp. p. 5633; Gaz. vol. 149; p. 978.
- Multiple drill. C. H. Ostlund. No. 920,080; Apr. 27; Sp. p. 6677; Gaz. vol. 141; p. 1135.
- Multiple drill. H. E. Hawes. No. 925,474; June 22; Sp. p. 4988; Gaz. vol. 143; p. 880.
- Multiple-effect receiver. G. T. Voorhees. No. 933,682; Sept. 7; Sp. p. 1465; Gaz. vol. 146; p. 221.
- Multiple mold. F. H. Seidel. No. 910,476; Jan. 19; Sp. p. 4186; Gaz. vol. 138; p. 748.
- Multiple-pendant switch. C. D. Gervin. No. 928,597; July 20; Sp. p. 3953; Gaz. vol. 144; p. 689.
- Muscle-testing machine. A. A. Brodeur. No. 929,281; July 27; Sp. p. 5360; Gaz. vol. 144; p. 943.
- Music and like cover. J. N. Dean. No. 936,223; Oct. 5; Sp. p. 1289; Gaz. vol. 147; p. 196.
- Music-desk hanger, Piano. T. H. Lunde. No. 918,066; Apr. 13; Sp. p. 2251; Gaz. vol. 141; p. 404.
- Music-holder. R. W. Mills. No. 922,610; May 25; Sp. p. 5179; Gaz. vol. 142; p. 916.
- Music-holder. A. M. Jensen. No. 932,135; Aug. 24; Sp. p. 5342; Gaz. vol. 145; p. 911.
- Music-holder and leaf-turner. W. G. Locke. No. 934,326; Sept. 14; Sp. p. 2744; Gaz. vol. 146; p. 455.
- Music holder and turner. H. M. Masters. No. 942,399; Dec. 7; Sp. p. 770; Gaz. vol. 149; p. 124.
- Music instructors, Pointer-baton for. F. Wheeler. No. 915,914; Mar. 23; Sp. p. 4642; Gaz. vol. 140; p. 823.
- Music-leaf turner. J. A. Friedrichs. No. 909,391; Jan. 12; Sp. p. 1939; Gaz. vol. 138; p. 346.
- Music-leaf turner. A. T. Ziegler. No. 909,505; Jan. 12; Sp. p. 2175; Gaz. vol. 138; p. 386.
- Music-leaf turner. W. Schwarz. No. 916,615; Mar. 30; Sp. p. 6027; Gaz. vol. 140; p. 1080.
- Music-leaf turner. W. M. Martin and A. P. Petri. No. 918,687; Apr. 20; Sp. p. 3597; Gaz. vol. 141; p. 638.
- Music-leaf turner. D. James. No. 919,357; Apr. 27; Sp. p. 5138; Gaz. vol. 141; p. 892.
- Music-leaf turner. T. H. Levring. No. 919,367; Apr. 27; Sp. p. 5173; Gaz. vol. 141; p. 896.
- Music-leaf turner. S. B. Thompson. No. 919,978; Apr. 27; Sp. p. 6445; Gaz. vol. 141; p. 1101.
- Music-leaf turner. C. Aubertin. No. 920,003; Apr. 27; Sp. p. 6499; Gaz. vol. 141; p. 1109.
- Music-leaf turner. M. L. Keagle. No. 920,749; May 4; Sp. p. 1325; Gaz. vol. 142; p. 215.
- Music-leaf turner. B. Wahl and J. Lamberty. No. 921,124; May 11; Sp. p. 2101; Gaz. vol. 142; p. 370.

*Alphabetical list of inventions—Continued.*

- Music-leaf turner. F. Horrell. No. 921,249; May 11; Sp. p. 2360; Gaz. vol. 142; p. 414.  
 Music-leaf turner. W. D. Parker. No. 923,440; June 1; Sp. p. 740; Gaz. vol. 143; p. 109.  
 Music-leaf turner. W. A. Hext. No. 923,522; June 1; Sp. p. 907; Gaz. vol. 143; p. 139.  
 Music-leaf turner. J. F. Dickson. No. 924,042; June 8; Sp. p. 2055; Gaz. vol. 143; p. 342.  
 Music-leaf turner. B. C. Howell, Jr. No. 926,566; June 29; Sp. p. 7210; Gaz. vol. 143; p. 1275.  
 Music-leaf turner. H. T. E. Covert. No. 931,572; Aug. 17; Sp. p. 4082; Gaz. vol. 145; p. 703.  
 Music-leaf turner. N. Arminio. No. 932,088; Aug. 24; Sp. p. 5244; Gaz. vol. 145; p. 894.  
 Music-leaf turner. A. H. Osterman. No. 933,334; Sept. 7; Sp. p. 683; Gaz. vol. 146; p. 106.  
 Music-leaf turner. P. Stragiotti and J. Vercellini. No. 938,055; Oct. 26; Sp. p. 5202; Gaz. vol. 147; p. 891.  
 Music-leaf turner. R. A. Gibson. No. 942,821; Dec. 7; Sp. p. 1622; Gaz. vol. 149; p. 266.  
 Music-leaf turner. R. J. Trice. No. 942,949; Dec. 14; Sp. p. 1967; Gaz. vol. 149; p. 342.  
 Music-player action-valve, Automatic self-adjusting pneumatic. E. B. Hough. No. 930,476; Aug. 10; Sp. p. 1714; Gaz. vol. 145; p. 310.  
 Music-rack. H. Watkins and J. C. Kempf. No. 909,489; Jan. 12; Sp. p. 2138; Gaz. vol. 138; p. 379.  
 Music-rack. J. C. Dillon. No. 925,465; June 22; Sp. p. 4969; Gaz. vol. 143; p. 877.  
 Music-rack. R. W. Mills. No. 943,091; Dec. 14; Sp. p. 2303; Gaz. vol. 149; p. 390.  
 Music-record sheet for automatic piano-playing mechanism and the like. A. R. Trist. No. 941,433; Nov. 30; Sp. p. 6603; Gaz. vol. 148; p. 1119.  
 Music-record sheets, Apparatus for producing perforated. G. Machlet, Jr. No. 942,398; Dec. 7; Sp. p. 759; Gaz. vol. 149; p. 124.  
 Music-recorder. A. Saumell. No. 931,494; Aug. 17; Sp. p. 3943; Gaz. vol. 145; p. 680.  
 Music-roll container. L. Haas. No. 915,286; Mar. 16; Sp. p. 3369; Gaz. vol. 140; p. 588.  
 Music-roll container. L. Haas. No. 922,695; May 25; Sp. p. 5352; Gaz. vol. 142; p. 944.  
 Music-roll spool. W. S. Denton. No. 914,811; Mar. 9; Sp. p. 2425; Gaz. vol. 140; p. 408.  
 Music-sheet-controlling device. T. P. Brown. No. 912,068; Feb. 9; Sp. p. 2150; Gaz. vol. 139; p. 371.  
 Music-sheet guiding mechanism. T. P. Brown. No. 942,956; Dec. 14; Sp. p. 1987; Gaz. vol. 149; p. 344.  
 Music-sheet-perforating apparatus. J. C. Bunge. No. 935,737; Oct. 5; Sp. p. 237; Gaz. vol. 147; p. 39.  
 Music-sheet turner. S. J. Shaw, Jr., and P. G. Yost. No. 922,527; May 25; Sp. p. 5001; Gaz. vol. 142; p. 889.  
 Music-sheet turner. J. Scholtz. No. 927,174; July 6; Sp. p. 986; Gaz. vol. 144; p. 160.  
 Music-sheets, Apparatus for perforating master. H. M. Salyer. No. 918,375; Apr. 13; Sp. p. 2858; Gaz. vol. 141; p. 506.  
 Music-stand. M. F. Dougherty. No. 935,592; Sept. 28; Sp. p. 5279; Gaz. vol. 146; p. 926.  
 Music-stand attachment. C. J. Willis. No. 938,450; Oct. 26; Sp. p. 5996; Gaz. vol. 147; p. 1016.  
 Music-teaching device. L. A. Jaros. No. 912,685; Feb. 16; Sp. p. 3443; Gaz. vol. 139; p. 614.  
 Music-turner. W. and R. Mark. No. 939,525; Nov. 9; Sp. p. 2381; Gaz. vol. 148; p. 395.  
 Music-turner. E. E. Van Dine. No. 940,219; Nov. 16; Sp. p. 3932; Gaz. vol. 148; p. 668.  
 Musical apparatus, Mechanical. G. P. Brand. No. 935,775; Oct. 5; Sp. p. 339; Gaz. vol. 147; p. 52.  
 Musical device. J. W. Nunn. No. 935,539; Sept. 28; Sp. p. 5177; Gaz. vol. 146; p. 908.  
 Musical instrument. P. Wuest, Jr. No. 913,867; Mar. 2; Sp. p. 421; Gaz. vol. 140; p. 68.  
 Musical instrument. F. X. Audet. No. 930,825; Aug. 10; Sp. p. 2465; Gaz. vol. 145; p. 427.  
 Musical-instrument attachment. H. Günther. No. 938,142; Oct. 26; Sp. p. 5319; Gaz. vol. 147; p. 910.  
 Musical instrument, Automatic. W. F. Bayer. No. 921,346; May 11; Sp. p. 2588; Gaz. vol. 142; p. 446.  
 Musical instrument, Automatic. P. A. Bayless. No. 943,909; Dec. 21; Sp. p. 4038; Gaz. vol. 149; p. 700.  
 Musical-instrument automatic player. J. J. Walker. No. 911,789; Feb. 9; Sp. p. 1496; Gaz. vol. 139; p. 280.  
 Musical instrument, Brass. J. Löw. No. 924,250; June 8; Sp. p. 2530; Gaz. vol. 143; p. 412.  
 Musical instrument, Brass wind. C. G. Conn. No. 931,273; Aug. 17; Sp. p. 3497; Gaz. vol. 145; p. 605.  
 Musical-instrument bridge, Stringed-. G. D. Laurian. No. 934,678; Sept. 21; Sp. p. 3439; Gaz. vol. 146; p. 598.  
 Musical-instrument coin-ejector. W. E. Cleveland. No. 910,502; Jan. 26; Sp. p. 4252; Gaz. vol. 138; p. 781.  
 Musical instrument, Combination. J. T. Mayer. No. 915,870; Mar. 23; Sp. p. 4559; Gaz. vol. 140; p. 810.  
 Musical instrument, Double-scale pneumatic. T. Danguard. No. 933,366; Sept. 7; Sp. p. 754; Gaz. vol. 146; p. 117.  
 Musical-instrument duplex tracker-board, Automatic-. M. Clark. No. 915,018; Mar. 9; Sp. p. 2799; Gaz. vol. 140; p. 473.  
 Musical instrument, Electrical. G. H. Davis. No. 931,281; Aug. 17; Sp. p. 3517; Gaz. vol. 145; p. 608.  
 Musical instrument, Mechanical. J. McTammany. No. 908,798; Jan. 5; Sp. p. 763; Gaz. vol. 138; p. 120.  
 Musical instrument, Mechanical. J. McTammany. No. 916,933; Mar. 30; Sp. p. 6617; Gaz. vol. 140; p. 1179.  
 Musical instrument, Mechanical. J. A. Weser. No. 923,225; June 1; Sp. p. 215; Gaz. vol. 143; p. 36.  
 Musical instrument pedal-action. A. F. and C. H. Norris. No. 915,691; Mar. 16; Sp. p. 4211; Gaz. vol. 140; p. 726.  
 Musical-instrument player, Automatic. I. B. Smith. No. 923,380; June 1; Sp. p. 611; Gaz. vol. 143; p. 90.  
 Musical-instrument playing mechanisms, Friction-shoe for. G. H. Davis. No. 923,148; June 1; Sp. p. 63; Gaz. vol. 143; p. 10.  
 Musical instrument, Pneumatic. T. P. Brown. No. 928,357; July 20; Sp. p. 3466; Gaz. vol. 144; p. 611.  
 Musical instrument, Pneumatic. E. de Kleist. No. 937,445; Oct. 19; Sp. p. 3874; Gaz. vol. 147; p. 659.  
 Musical instrument, Pneumatic. P. B. Klugh. No. 942,915; Dec. 14; Sp. p. 1895; Gaz. vol. 149; p. 331.  
 Musical instrument, Pneumatic self-playing. L. B. Doman. No. 912,366; Feb. 16; Sp. p. 2770; Gaz. vol. 139; p. 505.  
 Musical instrument, Pneumatic self-playing. L. B. Doman. No. 912,939; Feb. 16; Sp. p. 3950; Gaz. vol. 139; p. 695.  
 Musical instrument, Pneumatic self-playing. L. B. Doman. No. 912,940; Feb. 16; Sp. p. 3952; Gaz. vol. 139; p. 696.  
 Musical-instrument regulator. W. B. Fleming. No. 910,053; Jan. 19; Sp. p. 3261; Gaz. vol. 138; p. 601.  
 Musical instrument, Self-playing. F. E. Ives. No. 908,865; Jan. 5; Sp. p. 900; Gaz. vol. 138; p. 142.  
 Musical instrument, Self-playing. F. W. Draper. No. 927,507; July 13; Sp. p. 1648; Gaz. vol. 144; p. 296.  
 Musical instrument, Self-playing. T. E. Dougherty. No. 929,755; Aug. 3; Sp. p. 259; Gaz. vol. 145; p. 44.  
 Musical instrument, Self-playing. F. R. Goodman. No. 932,606; Aug. 31; Sp. p. 6312; Gaz. vol. 145; p. 1090.  
 Musical instrument, Stringed. G. T. Lewis. No. 921,127; May 11; Sp. p. 2108; Gaz. vol. 142; p. 371.  
 Musical instrument, Stringed. S. W. Buercklin. No. 921,507; May 11; Sp. p. 2911; Gaz. vol. 142; p. 499.  
 Musical instrument, Stringed. A. S. Leslie. No. 922,921; May 25; Sp. p. 5831; Gaz. vol. 142; p. 1017.  
 Musical instrument, Stringed. N. Turturo. No. 937,121; Oct. 19; Sp. p. 3148; Gaz. vol. 147; p. 554.  
 Musical-instrument strings, Holder and protector for. O. J. Müller. No. 939,734; Nov. 9; Sp. p. 2841; Gaz. vol. 148; p. 469.  
 Musical-instrument tracker-board, Pneumatic-. A. Philipps. No. 908,492; Jan. 5; Sp. p. 113; Gaz. vol. 138; p. 22.  
 Musical-instrument tracker mechanism. T. P. Brown. No. 939,387; Nov. 9; Sp. p. 2097; Gaz. vol. 148; p. 350.  
 Musical instruments and other apparatus, Contact device for self-playing. G. H. Davis. No. 942,550; Dec. 7; Sp. p. 1093; Gaz. vol. 149; p. 177.  
 Musical instruments, Apparatus for automatically playing. H. E. Green. No. 934,606; Sept. 21; Sp. p. 3286; Gaz. vol. 146; p. 572.  
 Musical instruments, Automatic playing attachment for. P. Welin. No. 928,295; July 20; Sp. p. 3344; Gaz. vol. 144; p. 590.  
 Musical instruments, Body-rest for. J. W. Hughes. No. 920,144; May 4; Sp. p. 104; Gaz. vol. 142; p. 16.  
 Musical instruments, Combined brake and rewinder for automatic. J. Skubis. No. 925,665; June 22; Sp. p. 5375; Gaz. vol. 143; p. 941.  
 Musical instruments, Duplex tracker-bar for pneumatic. J. Wieser. No. 917,825; Apr. 13; Sp. p. 1737; Gaz. vol. 141; p. 320.  
 Musical instruments, Duplex tracker-board for automatic. M. Clark. No. 921,639; May 11; Sp. p. 3179; Gaz. vol. 142; p. 544.  
 Musical instruments, Expression device for mechanical. J. O'Connor. No. 927,587; July 13; Sp. p. 1808; Gaz. vol. 144; p. 322.  
 Musical instruments, Expression device for pneumatic playing attachments for. J. H. Dickinson. No. 916,279; Mar. 23; Sp. p. 5316; Gaz. vol. 140; p. 942.  
 Musical instruments, Harmonic attachment for stringed. L. E. Hull. No. 928,866; July 20; Sp. p. 4474; Gaz. vol. 144; p. 780.  
 Musical instruments, Mechanism for holding and driving music-carrying rolls for mechanical. C. E. Merrill. No. 920,075; Apr. 27; Sp. p. 6665; Gaz. vol. 141; p. 1133.  
 Musical instruments, Mechanism for playing. I. B. Smith. No. 927,692; July 13; Sp. p. 2062; Gaz. vol. 144; p. 358.  
 Musical instruments, Note-accenting device for. T. P. Brown. No. 941,491; Nov. 30; Sp. p. 6721; Gaz. vol. 148; p. 1139.  
 Musical instruments or players, Duplex tracker-board for automatic. M. Clark. No. 921,590; May 11; Sp. p. 3053; Gaz. vol. 142; p. 524.  
 Musical instruments, Paper-winding mechanism for. P. Welin. No. 943,802; Dec. 21; Sp. p. 3810; Gaz. vol. 149; p. 662.  
 Musical instruments, Paper-winding mechanism for. P. Welin. No. 944,006; Dec. 21; Sp. p. 4260; Gaz. vol. 149; p. 733.  
 Musical instruments, Picker for stringed. E. J. Scarlett. No. 921,565; May 11; Sp. p. 3012; Gaz. vol. 142; p. 517.  
 Musical instruments, Pneumatic action for. L. B. Doman. No. 927,454; July 6; Sp. p. 1527; Gaz. vol. 144; p. 252.  
 Musical instruments, Pneumatic action for. P. Welin. No. 928,296; July 20; Sp. p. 3351; Gaz. vol. 144; p. 590.  
 Musical instruments, Pneumatic coupler for automatic. W. H. Rees. No. 930,315; Aug. 3; Sp. p. 1395; Gaz. vol. 145; p. 232.  
 Musical instruments, Pneumatic relay for automatic. A. W. Lonsdale. No. 944,798; Dec. 28; Sp. p. 5966; Gaz. vol. 149; p. 1029.  
 Musical instruments, Registering and recording means for. B. S. Dean. No. 930,738; Aug. 10; Sp. p. 2296; Gaz. vol. 145; p. 398.  
 Musical instruments, Registering and recording means for. B. S. Dean. No. 930,739; Aug. 10; Sp. p. 2299; Gaz. vol. 145; p. 399.  
 Musical instruments, Regulator for mechanical players for. F. W. Draper. No. 915,420; Mar. 16; Sp. p. 3633; Gaz. vol. 140; p. 638.  
 Musical instruments, Rotary valve for wind. C. G. Conn. No. 931,039; Aug. 17; Sp. p. 2968; Gaz. vol. 145; p. 525.



*Alphabetical list of inventions—Continued.*

- Musical instruments, Tracker-board and note-sheet mechanism for mechanical. J. O'Connor. No. 926,679; June 29; Sp. p. 7433; Gaz. vol. 143; p. 1311.
- Musical instruments, Volume-controlling means for mechanical. J. H. Dickinson. No. 926,178; June 29; Sp. p. 6485; Gaz. vol. 143; p. 1148.
- Musical instruments, Water-key for. W. W. Allen. No. 942,429; Dec. 7; Sp. p. 823; Gaz. vol. 149; p. 135.
- Musical score or composition. W. C. Smith. (Reissue.) No. 13,016; Aug. 24; Sp. p. 5895; Gaz. vol. 145; p. 1006.
- Mustache-guard. C. A. Steele, Jr. No. 927,892; July 13; Sp. p. 2483; Gaz. vol. 144; p. 424.
- Mute. K. Fujita. No. 933,244; Sept. 7; Sp. p. 498; Gaz. vol. 146; p. 76.
- Muzzle, Calif.-. C. H. Patterson. No. 909,212; Jan. 12; Sp. p. 1609; Gaz. vol. 138; p. 289.
- Muzzle for dogs and other animals. W. P. Marshall. No. 912,703; Feb. 16; Sp. p. 3483; Gaz. vol. 139; p. 621.
- Nail: See Finishing-nail; Mortise-nail; Roofing-nail.
- Nail and board puller. A. Anderson. No. 935,727; Oct. 5; Sp. p. 219; Gaz. vol. 147; p. 36.
- Nail-clencher. P. Deevy. No. 920,834; May 4; Sp. p. 1501; Gaz. vol. 142; p. 242.
- Nail-driving machine. W. R. Barclay and A. Bates. No. 919,678; Apr. 27; Sp. p. 5839; Gaz. vol. 141; p. 1002.
- Nail-extractor. M. Wenger. No. 911,098; Feb. 2; Sp. p. 145; Gaz. vol. 139; p. 27.
- Nail feeding and driving device. H. and A. H. Hayssen. No. 926,412; June 29; Sp. p. 6942; Gaz. vol. 143; p. 1223.
- Nail-finishing machine. E. E. Pierce and L. W. Newton. No. 908,493; Jan. 5; Sp. p. 115; Gaz. vol. 138; p. 22.
- Nail lock, Clenching-. F. C. A. Schlottmann. No. 926,140; June 29; Sp. p. 6390; Gaz. vol. 143; p. 1134.
- Nail-making machine. E. Walton and F. W. Macke. No. 919,095; Apr. 20; Sp. p. 4414; Gaz. vol. 141; p. 771.
- Nail-puller. L. Scarbrough. No. 940,197; Nov. 16; Sp. p. 3885; Gaz. vol. 148; p. 659.
- Nail-seal. K. Taylor. No. 917,907; Apr. 13; Sp. p. 1919; Gaz. vol. 141; p. 347.
- Nail-setter. C. A. Gehne. No. 924,054; June 8; Sp. p. 2074; Gaz. vol. 143; p. 345.
- Nailer, Automatic clencher-. P. R. Glass. No. 938,474; Nov. 2; Sp. p. 40; Gaz. vol. 148; p. 9.
- Nailing and slugging machine jack. W. H. Cuff. No. 919,424; Apr. 27; Sp. p. 5290; Gaz. vol. 141; p. 915.
- Nailing apparatus. M. Brock. No. 919,533; Apr. 27; Sp. p. 5540; Gaz. vol. 141; p. 952.
- Nailing-machine. W. A. Olsen. No. 916,768; Mar. 30; Sp. p. 6283; Gaz. vol. 140; p. 1123.
- Nailing-machine. G. B. Evans and T. E. Cherry. No. 928,645; July 20; Sp. p. 4048; Gaz. vol. 144; p. 705.
- Nailing-machine. J. M. Wiggins. No. 931,107; Aug. 17; Sp. p. 3118; Gaz. vol. 145; p. 547.
- Nailing-machine. H. W. Morgan. No. 943,035; Dec. 14; Sp. p. 2172; Gaz. vol. 149; p. 371.
- Nailing machine, Shingle-band-. J. E. Elwing. No. 910,050; Jan. 19; Sp. p. 3255; Gaz. vol. 138; p. 600.
- Naphtha, Raising. W. Mtkiewicz-Joltok. No. 934,745; Sept. 21; Sp. p. 3556; Gaz. vol. 146; p. 620.
- Napkin-holder. C. E. Smith. No. 910,153; Jan. 19; Sp. p. 3463; Gaz. vol. 138; p. 634.
- Napkin-holder. E. H. Jayne. No. 919,859; Apr. 20; Sp. p. 3956; Gaz. vol. 141; p. 696.
- Napkin-holder. H. H. Frick. No. 921,690; May 18; Sp. p. 3302; Gaz. vol. 142; p. 587.
- Napkin holder and supporter. E. C. Rink. No. 909,674; Jan. 12; Sp. p. 2498; Gaz. vol. 138; p. 443.
- Napkin ring and holder, Combined. W. L. Barnard. No. 935,454; Sept. 28; Sp. p. 4978; Gaz. vol. 146; p. 879.
- Nautical instrument. R. J. Hodge. No. 937,441; Oct. 19; Sp. p. 3859; Gaz. vol. 147; p. 657.
- Nautical instrument. C. A. McCallister. No. 938,780; Nov. 2; Sp. p. 704; Gaz. vol. 148; p. 114.
- Navigation apparatus. W. J. Chance. No. 938,972; Nov. 2; Sp. p. 1127; Gaz. vol. 148; p. 181.
- Navigation of waterways, Apparatus for. C. Dorrity. No. 926,981; July 6; Sp. p. 567; Gaz. vol. 144; p. 93.
- Navigator's instrument. E. F. Boljahn. No. 918,947; Apr. 20; Sp. p. 4150; Gaz. vol. 141; p. 726.
- Navigators, Tide-set-calculating instrument for. E. Hill, Jr. No. 944,437; Dec. 28; Sp. p. 5156; Gaz. vol. 149; p. 905.
- Neckband-shaper. L. A. Mapel. No. 910,140; Jan. 19; Sp. p. 3436; Gaz. vol. 138; p. 629.
- Necktie. H. Hagen. No. 908,768; Jan. 5; Sp. p. 717; Gaz. vol. 138; p. 111.
- Necktie. C. J. Person. No. 919,942; Apr. 27; Sp. p. 6378; Gaz. vol. 141; p. 1090.
- Necktie. J. T. Cowen. No. 922,089; May 18; Sp. p. 4114; Gaz. vol. 142; p. 718.
- Necktie. W. A. Keys. No. 927,979; July 13; Sp. p. 2660; Gaz. vol. 144; p. 452.
- Necktie. J. A. Soderstrom. No. 940,992; Nov. 23; Sp. p. 5615; Gaz. vol. 148; p. 951.
- Necktie attachment. L. Kirsch. No. 910,072; Jan. 19; Sp. p. 3300; Gaz. vol. 138; p. 608.
- Necktie-fastener. W. J. Reed. No. 938,606; Nov. 2; Sp. p. 374; Gaz. vol. 148; p. 56.
- Necktie-fastener and collar-button. T. Papworth. No. 937,849; Oct. 26; Sp. p. 4696; Gaz. vol. 147; p. 813.
- Necktie-holder. P. Lucas. No. 920,595; May 4; Sp. p. 1018; Gaz. vol. 142; p. 165.
- Necktie-holder. W. Downing. No. 925,313; June 15; Sp. p. 4678; Gaz. vol. 143; p. 799.
- Necktie-holder. G. A. Ferguson and A. B. Hay. No. 938,749; Nov. 2; Sp. p. 643; Gaz. vol. 148; p. 102.
- Necktie-retainer. R. V. Townsend. No. 937,339; Oct. 19; Sp. p. 3632; Gaz. vol. 147; p. 624.
- Necktie-support. N. D. Nelson. No. 938,687; Nov. 2; Sp. p. 534; Gaz. vol. 148; p. 82.
- Neckwear. G. L. Close. No. 923,409; June 1; Sp. p. 681; Gaz. vol. 143; p. 99.
- Neckwear. W. A. Keys. No. 923,534; June 1; Sp. p. 933; Gaz. vol. 143; p. 144.
- Neckwear holder and slip. G. P. Stumpf. No. 929,513; July 27; Sp. p. 5811; Gaz. vol. 144; p. 1020.
- Needle. C. V. Reeder. No. 913,648; Feb. 23; Sp. p. 5452; Gaz. vol. 139; p. 960.
- Needle. E. M. Sanders. No. 925,953; June 22; Sp. p. 6001; Gaz. vol. 143; p. 1036.
- Needle-feed mechanism. A. G. Fenn. No. 942,895; Dec. 14; Sp. p. 1834; Gaz. vol. 149; p. 323.
- Needle-guide. A. Leach. No. 942,919; Dec. 14; Sp. p. 1900; Gaz. vol. 149; p. 332.
- Needle, Lacing-. W. T. Germany. No. 940,682; Nov. 23; Sp. p. 4970; Gaz. vol. 148; p. 848.
- Needle-lubricating device. J. B. Hadaway. No. 922,696; May 25; Sp. p. 5353; Gaz. vol. 142; p. 945.
- Needle-operating mechanism, Circular-. J. Larsen. No. 910,829; Jan. 26; Sp. p. 4910; Gaz. vol. 138; p. 886.
- Needle-serving box. J. Hermann. No. 938,235; Oct. 26; Sp. p. 5520; Gaz. vol. 147; p. 943.
- Needle-shower. W. E. Holmes. No. 914,573; Mar. 9; Sp. p. 1932; Gaz. vol. 140; p. 330.
- Needle-shower. I. G. Dimond. No. 924,602; June 8; Sp. p. 3239; Gaz. vol. 143; p. 528.
- Needle-threader. J. K. Stockland. No. 912,915; Feb. 16; Sp. p. 3907; Gaz. vol. 139; p. 688.
- Needles and the like, Holder for. F. W. Hawkes. No. 922,893; May 25; Sp. p. 5783; Gaz. vol. 142; p. 1008.
- Negative-developer. J. S. Miller. No. 941,643; Nov. 30; Sp. p. 7018; Gaz. vol. 148; p. 1187.
- Negotiable instrument. H. A. Anderson. No. 931,246; Aug. 17; Sp. p. 3433; Gaz. vol. 145; p. 596.
- Nest and brooder, Combined trap-. H. Miller and G. B. Hallenbeck. No. 938,603; Nov. 2; Sp. p. 369; Gaz. vol. 148; p. 55.
- Nest-box for hens. A. K. Bakken. No. 910,484; Jan. 26; Sp. p. 4213; Gaz. vol. 138; p. 776.
- Nest, Hen's. C. H. Wolford. No. 911,103; Feb. 2; Sp. p. 154; Gaz. vol. 139; p. 29.
- Nest, Hen's. A. L. Glass. No. 912,465; Feb. 16; Sp. p. 2970; Gaz. vol. 139; p. 538.
- Nest, Hen's. E. C. Smith. No. 917,174; Apr. 6; Sp. p. 431; Gaz. vol. 141; p. 75.
- Nest, Hen's. J. Hallar. No. 917,862; Apr. 13; Sp. p. 1813; Gaz. vol. 141; p. 831.
- Nest-trap. G. H. Gaw. No. 923,829; June 8; Sp. p. 1659; Gaz. vol. 143; p. 275.
- Nest, Trap-. J. L. Ault. No. 935,084; Sept. 28; Sp. p. 4252; Gaz. vol. 146; p. 760.
- Net, Collapsible landing-. A. H. Fihl. No. 932,170; Aug. 24; Sp. p. 5408; Gaz. vol. 145; p. 922.
- Net frame, Landing-. G. M. Barnes. No. 939,381; Nov. 9; Sp. p. 2086; Gaz. vol. 148; p. 348.
- Net frame, Landing-. F. M. Spiegle. No. 941,961; Nov. 30; Sp. p. 7707; Gaz. vol. 148; p. 1299.
- Net, Hair-. A. Burnet and H. Temple. No. 917,538; Apr. 6; Sp. p. 1136; Gaz. vol. 141; p. 199.
- Newspaper-holder. G. Verges. No. 926,786; July 6; Sp. p. 156; Gaz. vol. 144; p. 26.
- Nickel and nickel-copper alloys, Manufacturing. D. H. Browne. No. 934,278; Sept. 14; Sp. p. 2646; Gaz. vol. 146; p. 440.
- Night-lock. H. R. Towne. No. 919,979; Apr. 27; Sp. p. 6446; Gaz. vol. 141; p. 1102.
- Night-soil and recovering ammonia therefrom, Apparatus for reducing. K. E. Fryklind. No. 918,744; Apr. 20; Sp. p. 3710; Gaz. vol. 141; p. 658.
- Nippers. M. Friday. No. 938,376; Oct. 26; Sp. p. 5838; Gaz. vol. 147; p. 990.
- Nipple. T. W. Miller. No. 926,011; June 22; Sp. p. 6108; Gaz. vol. 143; p. 1056.
- Nipple-flange. H. W. Reynolds and J. A. Smith. No. 943,123; Dec. 14; Sp. p. 2368; Gaz. vol. 149; p. 402.
- Nipples, Producing radiator-. J. A. Field. No. 916,546; Mar. 30; Sp. p. 5891; Gaz. vol. 140; p. 1057.
- Nitric oxides and nitric acid, Producing. O. Dieffenbach and W. Moldenhauer. No. 914,813; Mar. 9; Sp. p. 2428; Gaz. vol. 140; p. 408.
- Nitrides, Producing. C. E. Acker. No. 943,132; Dec. 14; Sp. p. 2384; Gaz. vol. 149; p. 405.
- Nitro compounds, Producing. O. Boeters and R. Wolfenstein. No. 923,761; June 1; Sp. p. 1429; Gaz. vol. 143; p. 222.
- Nitrocellulose, Dehydrating. G. W. Gentieu. No. 931,749; Aug. 24; Sp. p. 4504; Gaz. vol. 145; p. 783.
- Nitrogen and oxygen from mixtures containing them, Apparatus for separating. R. P. Fictet. No. 918,589; Apr. 20; Sp. p. 3320; Gaz. vol. 141; p. 604.
- Nitrogen by electricity, Oxidizing atmospheric. D. Heibig. No. 926,413; June 29; Sp. p. 6947; Gaz. vol. 143; p. 1224.
- Nitrogen from air, Obtaining. O. P. Hurford. No. 914,279; Mar. 2; Sp. p. 1329; Gaz. vol. 140; p. 205.

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- Nitroglycerin, Compound for eliminating noxious fumes when exploding. F. P. Bettanin. No. 930,030; Aug. 3; Sp. p. 859; Gaz. vol. 145; p. 138.
- Nitroglycerin, Manufacturing. F. Aigner. No. 913,653; Feb. 23; Sp. p. 5458; Gaz. vol. 139; p. 961.
- Nitrohydrocarbon composition, Densifying. F. J. H. Roewer. No. 912,733; Feb. 16; Sp. p. 3577; Gaz. vol. 139; p. 632.
- Noise-preventer for covers of receptacles. T. B. Garriss. No. 908,852; Jan. 5; Sp. p. 872; Gaz. vol. 138; p. 138.
- Noise-producing device. T. Smith. No. 934,226; Sept. 14; Sp. p. 2559; Gaz. vol. 146; p. 423.
- Non-aqueous mixtures and product thereof, Preparing. E. G. Acheson. No. 911,358; Feb. 2; Sp. p. 658; Gaz. vol. 139; p. 112.
- Non-conducting compound. F. J. Jewett. No. 923,358; June 1; Sp. p. 573; Gaz. vol. 143; p. 82.
- Nose-glasses. B. J. Knapp. No. 925,921; June 22; Sp. p. 5944; Gaz. vol. 143; p. 1026.
- Nose-glasses. B. J. Knapp. No. 930,076; Aug. 3; Sp. p. 953; Gaz. vol. 145; p. 154.
- Nose-guard. L. F. Adt. No. 935,724; Oct. 5; Sp. p. 214; Gaz. vol. 147; p. 35.
- Note-book. C. H. Goodyear. No. 912,112; Feb. 9; Sp. p. 2229; Gaz. vol. 139; p. 385.
- Note-book, Loose-leaf. C. H. Goodyear. No. 912,111; Feb. 9; Sp. p. 2228; Gaz. vol. 139; p. 385.
- Note-sheet-cutting apparatus. W. R. Crippen. No. 920,921; May 11; Sp. p. 1694; Gaz. vol. 142; p. 301.
- Note-sheets, Receiving-spool for. W. R. Crippen. No. 942,548; Dec. 7; Sp. p. 1091; Gaz. vol. 149; p. 177.
- Nozzle. C. G. Hess. No. 914,490; Mar. 9; Sp. p. 1757; Gaz. vol. 140; p. 302.
- Nozzle. A. Pfau. No. 915,214; Mar. 16; Sp. p. 3238; Gaz. vol. 140; p. 566.
- Nozzle. W. G. Hughes. No. 920,145; May 4; Sp. p. 105; Gaz. vol. 142; p. 16.
- Nozzle. G. L. Burden. No. 922,664; May 25; Sp. p. 5287; Gaz. vol. 142; p. 934.
- Nozzle. H. B. Helm. No. 922,895; May 25; Sp. p. 5786; Gaz. vol. 142; p. 1009.
- Nozzle. G. Jackson. No. 924,665; June 15; Sp. p. 3379; Gaz. vol. 143; p. 582.
- Nozzle. L. R. Nelson. No. 926,435; June 29; Sp. p. 6991; Gaz. vol. 143; p. 1231.
- Nozzle. F. S. Seagrave. No. 930,095; Aug. 3; Sp. p. 996; Gaz. vol. 145; p. 161.
- Nozzle. M. Warren. No. 930,444; Aug. 10; Sp. p. 1653; Gaz. vol. 145; p. 299.
- Nozzle, Adjustable. W. T. Dodge. No. 935,745; Oct. 5; Sp. p. 259; Gaz. vol. 147; p. 41.
- Nozzle for bluing steel sheets. J. E. Carnahan. No. 927,449; July 6; Sp. p. 1507; Gaz. vol. 144; p. 250.
- Nozzle for cans, Screw-cap. S. Tevander. No. 923,214; June 1; Sp. p. 195; Gaz. vol. 143; p. 32.
- Nozzle for humidifiers, Spray-. S. W. Cramer. No. 921,205; May 11; Sp. p. 2271; Gaz. vol. 142; p. 399.
- Nozzle for vacuum-cleaners. J. W. Smith. No. 933,003; Aug. 31; Sp. p. 7087; Gaz. vol. 145; p. 1219.
- Nozzle-holder. E. Burns. No. 925,680; June 22; Sp. p. 5402; Gaz. vol. 143; p. 946.
- Nozzle, Hydraulic. W. A. Doble. No. 926,055; June 22; Sp. p. 6199; Gaz. vol. 143; p. 1071.
- Nozzle, Lawn-spray-. T. Cadwallader. No. 932,958; Aug. 31; Sp. p. 7010; Gaz. vol. 145; p. 1205.
- Nozzle, Liquid-. J. G. Mastin. No. 932,800; Aug. 31; Sp. p. 6729; Gaz. vol. 145; p. 1154.
- Nozzle, Regulating. W. A. Doble. No. 941,440; Nov. 30; Sp. p. 6614; Gaz. vol. 148; p. 1121.
- Nozzle, Spray-. F. A. Myers. No. 935,124; Sept. 28; Sp. p. 4333; Gaz. vol. 146; p. 773.
- Nozzle, Spraying-. F. T. Yard. No. 912,520; Feb. 16; Sp. p. 3095; Gaz. vol. 139; p. 556.
- Nozzle, Spraying-. F. and F. Koenigkramer. No. 912,691; Feb. 16; Sp. p. 3454; Gaz. vol. 139; p. 616.
- Nozzle, Spraying-. J. C. Hull. No. 915,180; Mar. 16; Sp. p. 3161; Gaz. vol. 140; p. 554.
- Nozzle, Spraying-. J. B. Winfield and C. F. Ackerman. No. 924,866; June 15; Sp. p. 3810; Gaz. vol. 143; p. 651.
- Nozzle, Spraying-. A. B. Hull. No. 936,537; Oct. 12; Sp. p. 1984; Gaz. vol. 147; p. 327.
- Nozzle, Spraying-. A. E. Preston. No. 940,477; Nov. 16; Sp. p. 4515; Gaz. vol. 148; p. 755.
- Nozzle, Sprinkler-. W. G. Hughes. No. 943,780; Dec. 21; Sp. p. 3765; Gaz. vol. 149; p. 655.
- Nozzle, Suction-. W. E. and J. H. Watson. No. 917,819; Apr. 13; Sp. p. 1723; Gaz. vol. 141; p. 318.
- Nozzle-support and spraying device, Combination. E. Sutherland. No. 941,109; Nov. 23; Sp. p. 5877; Gaz. vol. 148; p. 990.
- Nozzle support, Hose-. H. F. Bees and J. B. Wolcott. No. 916,978; Apr. 6; Sp. p. 29; Gaz. vol. 141; p. 9.
- Nozzle, Syringe. E. T. Pearl. No. 925,718; June 22; Sp. p. 5497; Gaz. vol. 143; p. 959.
- Nozzle, Water-. A. Allbright and G. G. Scudder. No. 935,629; Oct. 5; Sp. p. 1; Gaz. vol. 147; p. 3.
- Nozzle, Water-wheel. G. F. De Wein. No. 915,277; Mar. 16; Sp. p. 3349; Gaz. vol. 140; p. 585.
- Nozzles for turbines and the like, Machine for cutting. A. E. Chernack. No. 927,450; July 6; Sp. p. 1508; Gaz. vol. 144; p. 250.
- Nuisance, Device for preventing dog. A. H. Roberts. No. 922,956; May 25; Sp. p. 5904; Gaz. vol. 142; p. 1029.
- Number-displaying device. S. E. Florsheim. No. 916,135; Mar. 23; Sp. p. 5054; Gaz. vol. 140; p. 896.
- Numbering-machine. W. A. Porter. No. 909,115; Jan. 5; Sp. p. 1411; Gaz. vol. 138; p. 225.
- Numbering-machine. F. Sander. No. 910,866; Jan. 26; Sp. p. 4973; Gaz. vol. 138; p. 898.
- Numbering-machine. F. Wosinski. No. 943,210; Dec. 14; Sp. p. 2532; Gaz. vol. 149; p. 429.
- Numbering-machine. E. A. Lundvall and W. Olson. No. 944,451; Dec. 28; Sp. p. 5189; Gaz. vol. 149; p. 910.
- Numbering-machine, Typographic. B. B. Conrad and F. Sander. No. 920,917; May 11; Sp. p. 1686; Gaz. vol. 142; p. 300.
- Nurling-tool. A. W. Graham. No. 930,662; Aug. 10; Sp. p. 2139; Gaz. vol. 145; p. 373.
- Nursery-chair. H. H. Collings. No. 909,758; Jan. 12; Sp. p. 2672; Gaz. vol. 138; p. 471.
- Nursery-chair. P. S. Chandler. No. 933,624; Sept. 7; Sp. p. 1354; Gaz. vol. 146; p. 201.
- Nursery-chair and satchel, Combined. M. E. Friend. No. 934,155; Sept. 14; Sp. p. 2427; Gaz. vol. 146; p. 399.
- Nut. W. F. Kenney. No. 932,396; Aug. 24; Sp. p. 5835; Gaz. vol. 145; p. 996.
- Nut and bolt lock. J. F. Craven. No. 915,830; Mar. 23; Sp. p. 4492; Gaz. vol. 140; p. 797.
- Nut and bolt lock. R. L. Sr. and R. L. Elwood, Jr. No. 916,285; Mar. 23; Sp. p. 5329; Gaz. vol. 140; p. 944.
- Nut and bolt lock. L. P. Hansford. No. 937,149; Oct. 19; Sp. p. 3217; Gaz. vol. 147; p. 563.
- Nut and bolt, Locking-. G. W. Poffinbarger. No. 932,572; Aug. 31; Sp. p. 6225; Gaz. vol. 145; p. 1078.
- Nut and bolt, Self-locking. M. Jacobs. No. 922,482; May 25; Sp. p. 4904; Gaz. vol. 142; p. 874.
- Nut and wrench, Combined. A. A. Friz. No. 940,000; Nov. 16; Sp. p. 3419; Gaz. vol. 148; p. 589.
- Nut-blank-making apparatus. H. C. Graham. No. 912,669; Feb. 16; Sp. p. 3394; Gaz. vol. 139; p. 608.
- Nut-cracker. H. M. Quackenbush. No. 930,796; Aug. 10; Sp. p. 2404; Gaz. vol. 145; p. 417.
- Nut-cracker. W. M. Burkle. No. 931,562; Aug. 17; Sp. p. 4067; Gaz. vol. 145; p. 700.
- Nut-cracking mechanism. H. R. Gilson. No. 928,958; July 27; Sp. p. 4662; Gaz. vol. 144; p. 837.
- Nut device, Lock-. J. S. Conradi, E. Tilston, and P. W. Masson. No. 933,420; Sept. 7; Sp. p. 867; Gaz. vol. 146; p. 135.
- Nut-finishing machine. C. Sonneborn. No. 934,419; Sept. 14; Sp. p. 2917; Gaz. vol. 146; p. 488.
- Nut, Grip-. A. Y. Davis. No. 921,369; May 11; Sp. p. 2635; Gaz. vol. 142; p. 453.
- Nut-huller. G. W. Phillips. No. 916,008; Mar. 23; Sp. p. 4826; Gaz. vol. 140; p. 854.
- Nut-lock. R. L. Mangan. No. 908,473; Jan. 5; Sp. p. 79; Gaz. vol. 138; p. 15.
- Nut-lock. J. B. Hoagland. No. 908,670; Jan. 5; Sp. p. 511; Gaz. vol. 138; p. 80.
- Nut-lock. L. A. Smith. No. 909,033; Jan. 5; Sp. p. 1227; Gaz. vol. 138; p. 197.
- Nut-lock. G. W. Stuart. No. 909,035; Jan. 5; Sp. p. 1229; Gaz. vol. 138; p. 197.
- Nut-lock. J. J. Moran. No. 909,637; Jan. 12; Sp. p. 2429; Gaz. vol. 138; p. 430.
- Nut-lock. A. Swanson. No. 909,706; Jan. 12; Sp. p. 2566; Gaz. vol. 138; p. 454.
- Nut-lock. W. Peters and S. Gins. No. 910,309; Jan. 19; Sp. p. 3335; Gaz. vol. 138; p. 691.
- Nut-lock. C. H. Garfield. No. 910,660; Jan. 26; Sp. p. 4578; Gaz. vol. 138; p. 833.
- Nut-lock. D. I. Griffith. No. 910,666; Jan. 26; Sp. p. 4588; Gaz. vol. 138; p. 834.
- Nut-lock. G. Hardin. No. 910,678; Jan. 26; Sp. p. 4605; Gaz. vol. 138; p. 838.
- Nut-lock. M. C. McCoy. No. 910,712; Jan. 26; Sp. p. 4667; Gaz. vol. 138; p. 848.
- Nut-lock. W. E. Pounds. No. 910,954; Jan. 26; Sp. p. 5141; Gaz. vol. 138; p. 926.
- Nut-lock. W. M. Offutt and G. E. Hubbard. No. 911,063; Feb. 2; Sp. p. 81; Gaz. vol. 139; p. 15.
- Nut-lock. B. F. Pinson. No. 912,407; Feb. 16; Sp. p. 2862; Gaz. vol. 139; p. 519.
- Nut-lock. W. H. Snively. No. 912,499; Feb. 16; Sp. p. 3037; Gaz. vol. 139; p. 549.
- Nut-lock. J. Fahner. No. 912,657; Feb. 16; Sp. p. 3367; Gaz. vol. 139; p. 605.
- Nut-lock. S. H. Coleman. No. 913,201; Feb. 23; Sp. p. 4493; Gaz. vol. 139; p. 809.
- Nut-lock. W. H. Cottrell. No. 913,266; Feb. 23; Sp. p. 4628; Gaz. vol. 139; p. 830.
- Nut-lock. W. H. Cottrell. No. 913,267; Feb. 23; Sp. p. 4630; Gaz. vol. 139; p. 830.
- Nut-lock. C. H. Ferguson. No. 913,486; Feb. 23; Sp. p. 5062; Gaz. vol. 139; p. 904.
- Nut-lock. G. M. Holman. No. 913,501; Feb. 23; Sp. p. 5099; Gaz. vol. 139; p. 911.
- Nut-lock. C. P. Dyer. No. 913,712; Mar. 2; Sp. p. 74; Gaz. vol. 140; p. 14.
- Nut-lock. D. M. Kenyon. No. 914,053; Mar. 2; Sp. p. 860; Gaz. vol. 140; p. 133.
- Nut-lock. R. B. Frisbee. No. 914,132; Mar. 2; Sp. p. 1024; Gaz. vol. 140; p. 161.
- Nut-lock. J. Schirra. No. 914,192; Mar. 2; Sp. p. 1155; Gaz. vol. 140; p. 180.
- Nut-lock. T. J. Glenn. No. 914,654; Mar. 9; Sp. p. 2086; Gaz. vol. 140; p. 354.
- Nut-lock. A. M. Ravilly. No. 915,217; Mar. 16; Sp. p. 3245; Gaz. vol. 140; p. 567.



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- Nut-lock. L. M. Gilchrist. No. 915,343; Mar. 16; Sp. p. 3479; Gaz. vol. 140; p. 607.  
 Nut-lock. D. Wilson. No. 915,642; Mar. 16; Sp. p. 4103; Gaz. vol. 140; p. 709.  
 Nut-lock. A. C. Keedwell. No. 915,772; Mar. 23; Sp. p. 4393; Gaz. vol. 140; p. 779.  
 Nut-lock. T. H. Lawrence. No. 916,171; Mar. 23; Sp. p. 5125; Gaz. vol. 140; p. 907.  
 Nut-lock. C. C. and J. H. Ruff. No. 916,201; Mar. 23; Sp. p. 5176; Gaz. vol. 140; p. 917.  
 Nut-lock. L. C. Smith. No. 916,210; Mar. 23; Sp. p. 5192; Gaz. vol. 140; p. 919.  
 Nut-lock. W. E. Gifford. No. 916,298; Mar. 23; Sp. p. 5351; Gaz. vol. 140; p. 948.  
 Nut-lock. O. Crittenden. No. 916,421; Mar. 30; Sp. p. 5605; Gaz. vol. 140; p. 1015.  
 Nut-lock. M. Valenti. No. 916,634; Mar. 30; Sp. p. 6054; Gaz. vol. 140; p. 1085.  
 Nut-lock. J. T. Chadwick. No. 916,997; Apr. 6; Sp. p. 68; Gaz. vol. 141; p. 16.  
 Nut-lock. P. P. Jargick. No. 918,157; Apr. 13; Sp. p. 2428; Gaz. vol. 141; p. 435.  
 Nut-lock. P. P. Jargick. No. 918,158; Apr. 13; Sp. p. 2429; Gaz. vol. 141; p. 435.  
 Nut-lock. J. J. Galey. No. 918,527; Apr. 20; Sp. p. 3185; Gaz. vol. 141; p. 584.  
 Nut-lock. W. Schwering. No. 918,778; Apr. 20; Sp. p. 3773; Gaz. vol. 141; p. 669.  
 Nut-lock. E. V. Lamotte. No. 919,034; Apr. 20; Sp. p. 4311; Gaz. vol. 141; p. 753.  
 Nut-lock. J. B. Holesteine. No. 919,170; Apr. 20; Sp. p. 4554; Gaz. vol. 141; p. 796.  
 Nut-lock. C. Radcliffe. No. 919,212; Apr. 20; Sp. p. 4636; Gaz. vol. 141; p. 809.  
 Nut-lock. W. D. Wilkinson and F. H. Seeley. No. 919,667; Apr. 27; Sp. p. 5820; Gaz. vol. 141; p. 999.  
 Nut-lock. H. W. Worthington. No. 919,993; Apr. 27; Sp. p. 6470; Gaz. vol. 141; p. 1106.  
 Nut-lock. J. Hauck. No. 920,055; Apr. 27; Sp. p. 6626; Gaz. vol. 141; p. 1127.  
 Nut-lock. E. C. Mangin. No. 920,359; May 4; Sp. p. 547; Gaz. vol. 142; p. 87.  
 Nut-lock. F. B. McDonald. No. 920,374; May 4; Sp. p. 577; Gaz. vol. 142; p. 93.  
 Nut-lock. C. C. Earlywine. No. 920,551; May 4; Sp. p. 931; Gaz. vol. 142; p. 150.  
 Nut-lock. L. L. Roberts. No. 921,003; May 11; Sp. p. 1851; Gaz. vol. 142; p. 328.  
 Nut-lock. J. Perrie. No. 921,278; May 11; Sp. p. 2429; Gaz. vol. 142; p. 422.  
 Nut-lock. J. C. Crowson. No. 921,805; May 18; Sp. p. 3524; Gaz. vol. 142; p. 625.  
 Nut-lock. F. A. Beard. No. 922,243; May 18; Sp. p. 4421; Gaz. vol. 142; p. 768.  
 Nut-lock. P. Clay. No. 922,261; May 18; Sp. p. 4465; Gaz. vol. 142; p. 775.  
 Nut-lock. S. Truston. No. 922,543; May 25; Sp. p. 5039; Gaz. vol. 142; p. 895.  
 Nut-lock. L. T. Twyman. No. 922,642; May 25; Sp. p. 5242; Gaz. vol. 142; p. 927.  
 Nut-lock. R. F. Ross. No. 922,721; May 25; Sp. p. 5402; Gaz. vol. 142; p. 952.  
 Nut-lock. R. Scherer. No. 923,082; May 25; Sp. p. 6158; Gaz. vol. 142; p. 1068.  
 Nut-lock. M. L. Decker. No. 923,251; June 1; Sp. p. 272; Gaz. vol. 143; p. 45.  
 Nut-lock. A. J. Hathcox. No. 923,264; June 1; Sp. p. 315; Gaz. vol. 143; p. 49.  
 Nut-lock. F. E. Mensinger. No. 923,365; June 1; Sp. p. 588; Gaz. vol. 143; p. 85.  
 Nut-lock. T. M. Mills. No. 924,259; June 8; Sp. p. 2551; Gaz. vol. 143; p. 415.  
 Nut-lock. B. Humphrey. No. 924,467; June 8; Sp. p. 2952; Gaz. vol. 143; p. 483.  
 Nut-lock. A. E. Zeese. No. 925,067; June 15; Sp. p. 4215; Gaz. vol. 143; p. 718.  
 Nut-lock. A. McKinley. No. 925,496; June 22; Sp. p. 5027; Gaz. vol. 143; p. 886.  
 Nut-lock. W. E. Hall. No. 925,899; June 22; Sp. p. 5903; Gaz. vol. 143; p. 1020.  
 Nut-lock. E. M. Lovell. No. 925,927; June 22; Sp. p. 5959; Gaz. vol. 143; p. 1028.  
 Nut-lock. S. Gins and W. Peters. No. 926,696; June 29; Sp. p. 7476; Gaz. vol. 143; p. 1318.  
 Nut-lock. W. L. Holloway. No. 926,867; July 6; Sp. p. 342; Gaz. vol. 144; p. 55.  
 Nut-lock. C. R. Mervin. No. 926,953; July 6; Sp. p. 518; Gaz. vol. 144; p. 84.  
 Nut-lock. W. Jacobus. No. 927,466; July 6; Sp. p. 1560; Gaz. vol. 144; p. 256.  
 Nut-lock. I. N. Anderson. No. 928,577; July 20; Sp. p. 3907; Gaz. vol. 144; p. 682.  
 Nut-lock. E. G. Brightful. No. 928,845; July 20; Sp. p. 4427; Gaz. vol. 144; p. 771.  
 Nut-lock. A. Simms and S. C. Cook. No. 929,031; July 27; Sp. p. 4818; Gaz. vol. 144; p. 861.  
 Nut-lock. C. A. George. No. 929,084; July 27; Sp. p. 4929; Gaz. vol. 144; p. 878.  
 Nut-lock. A. Nordlund. No. 929,322; July 27; Sp. p. 5470; Gaz. vol. 144; p. 960.  
 Nut-lock. A. H. Armstrong. No. 929,532; July 27; Sp. p. 5840; Gaz. vol. 144; p. 1026.  
 Nut-lock. H. C. Brunker. No. 929,548; July 27; Sp. p. 5870; Gaz. vol. 144; p. 1031.  
 Nut-lock. E. R. Kern. No. 929,673; Aug. 3; Sp. p. 59; Gaz. vol. 145; p. 12.  
 Nut-lock. G. Bryar. No. 929,827; Aug. 3; Sp. p. 421; Gaz. vol. 145; p. 70.  
 Nut-lock. G. F. Kilmer. No. 929,955; Aug. 3; Sp. p. 708; Gaz. vol. 145; p. 113.  
 Nut-lock. M. J. Wygonik. No. 930,016; Aug. 3; Sp. p. 831; Gaz. vol. 145; p. 134.  
 Nut-lock. F. J. Brown. No. 930,148; Aug. 3; Sp. p. 1112; Gaz. vol. 145; p. 180.  
 Nut-lock. W. R. Garner. No. 930,172; Aug. 3; Sp. p. 1160; Gaz. vol. 145; p. 189.  
 Nut-lock. W. R. Garner. No. 930,173; Aug. 3; Sp. p. 1161; Gaz. vol. 145; p. 189.  
 Nut-lock. W. M. Smith. No. 930,806; Aug. 10; Sp. p. 2424; Gaz. vol. 145; p. 420.  
 Nut-lock. W. M. Smith. No. 930,808; Aug. 10; Sp. p. 2429; Gaz. vol. 145; p. 421.  
 Nut-lock. W. R. Garner. No. 930,954; Aug. 10; Sp. p. 2754; Gaz. vol. 145; p. 469.  
 Nut-lock. C. Girardot. No. 931,409; Aug. 17; Sp. p. 3781; Gaz. vol. 145; p. 653.  
 Nut-lock. W. F. Kenney. No. 932,395; Aug. 24; Sp. p. 5834; Gaz. vol. 145; p. 996.  
 Nut-lock. W. F. Kenney. No. 932,398; Aug. 24; Sp. p. 5837; Gaz. vol. 145; p. 997.  
 Nut-lock. M. B. Park. No. 932,894; Aug. 31; Sp. p. 6895; Gaz. vol. 145; p. 1184.  
 Nut-lock. C. Starzman. No. 933,595; Sept. 7; Sp. p. 1296; Gaz. vol. 146; p. 192.  
 Nut-lock. A. E. Linton. No. 933,998; Sept. 14; Sp. p. 2102; Gaz. vol. 146; p. 346.  
 Nut-lock. J. Grimmer. No. 934,522; Sept. 21; Sp. p. 3120; Gaz. vol. 146; p. 544.  
 Nut-lock. W. E. Frazer. No. 934,805; Sept. 21; Sp. p. 3682; Gaz. vol. 146; p. 639.  
 Nut-lock. A. R. Cooper. No. 936,091; Oct. 5; Sp. p. 1038; Gaz. vol. 147; p. 157.  
 Nut-lock. F. Braune. No. 936,299; Oct. 12; Sp. p. 1431; Gaz. vol. 147; p. 249.  
 Nut-lock. J. B. Lambeth. No. 936,331; Oct. 12; Sp. p. 1503; Gaz. vol. 147; p. 260.  
 Nut-lock. F. Moser. No. 936,553; Oct. 12; Sp. p. 2015; Gaz. vol. 147; p. 332.  
 Nut-lock. D. F. McDonell. No. 936,929; Oct. 12; Sp. p. 2756; Gaz. vol. 147; p. 460.  
 Nut-lock. W. H. Faulkner. No. 937,295; Oct. 19; Sp. p. 3531; Gaz. vol. 147; p. 610.  
 Nut-lock. T. Hand. No. 938,320; Oct. 26; Sp. p. 5701; Gaz. vol. 147; p. 971.  
 Nut-lock. J. McIlwain. No. 938,503; Nov. 2; Sp. p. 123; Gaz. vol. 148; p. 20.  
 Nut-lock. J. E. Robinson. No. 938,515; Nov. 2; Sp. p. 169; Gaz. vol. 148; p. 23.  
 Nut-lock. C. H. Roff. No. 938,707; Nov. 2; Sp. p. 563; Gaz. vol. 148; p. 88.  
 Nut-lock. G. D. Lawson and A. Wheeler. No. 938,880; Nov. 2; Sp. p. 935; Gaz. vol. 148; p. 147.  
 Nut-lock. A. C. Woodruff. No. 938,932; Nov. 2; Sp. p. 1062; Gaz. vol. 148; p. 168.  
 Nut-lock. G. B. Martin. No. 939,048; Nov. 2; Sp. p. 1284; Gaz. vol. 148; p. 207.  
 Nut-lock. H. P. Davies. No. 939,124; Nov. 2; Sp. p. 1430; Gaz. vol. 148; p. 233.  
 Nut-lock. W. Atkins. No. 939,654; Nov. 9; Sp. p. 2666; Gaz. vol. 148; p. 441.  
 Nut-lock. M. H. McCoy. No. 940,267; Nov. 16; Sp. p. 4019; Gaz. vol. 148; p. 684.  
 Nut-lock. L. S. Brach. No. 940,503; Nov. 16; Sp. p. 4578; Gaz. vol. 148; p. 764.  
 Nut-lock. T. Loughlin. No. 940,605; Nov. 16; Sp. p. 4785; Gaz. vol. 148; p. 797.  
 Nut-lock. G. L. Smith, H. F. Graver, and J. J. Wiegand. No. 940,990; Nov. 23; Sp. p. 5611; Gaz. vol. 148; p. 951.  
 Nut-lock. C. F. Sawyer. No. 941,046; Nov. 23; Sp. p. 5744; Gaz. vol. 148; p. 970.  
 Nut-lock. K. and B. Nagyvatthy. No. 941,804; Nov. 30; Sp. p. 7387; Gaz. vol. 148; p. 1243.  
 Nut-lock. W. W. Senn. No. 941,959; Nov. 30; Sp. p. 7703; Gaz. vol. 148; p. 1298.  
 Nut-lock. W. H. Beltz. No. 942,193; Dec. 7; Sp. p. 358; Gaz. vol. 149; p. 54.  
 Nut-lock. G. Bryar. No. 942,194; Dec. 7; Sp. p. 359; Gaz. vol. 149; p. 55.  
 Nut-lock. F. A. Headson. No. 943,826; Dec. 21; Sp. p. 3855; Gaz. vol. 149; p. 671.  
 Nut-lock. G. A. Pattillo. No. 943,887; Dec. 21; Sp. p. 3982; Gaz. vol. 149; p. 691.  
 Nut-lock. E. B. Wiles. No. 909,495; Jan. 12; Sp. p. 2148; Gaz. vol. 138; p. 381.  
 Nut-lock. W. F. Harris. No. 909,788; Jan. 12; Sp. p. 2731; Gaz. vol. 138; p. 481.  
 Nut-lock. C. H. Stall. No. 913,174; Feb. 23; Sp. p. 4436; Gaz. vol. 139; p. 800.  
 Nut-lock. W. Davis and D. M. Godard. No. 914,930; Mar. 9; Sp. p. 2657; Gaz. vol. 140; p. 446.  
 Nut-lock. J. I. Boyce. No. 917,530; Apr. 6; Sp. p. 1121; Gaz. vol. 141; p. 196.  
 Nut-lock. P. Moodie. No. 926,504; June 29; Sp. p. 7103; Gaz. vol. 143; p. 1254.

*Alphabetical list of inventions—Continued.*

- Nut, Lock-. J. J. Fifield. No. 928,436; July 20; Sp. p. 3615; Gaz. vol. 144; p. 638.  
 Nut, Lock-. S. L. Smith. No. 928,811; July 20; Sp. p. 4356; Gaz. vol. 144; p. 760.  
 Nut, Lock-. S. Zuchtmann. No. 937,269; Oct. 19; Sp. p. 3484; Gaz. vol. 147; p. 602.  
 Nut-lock, Adjustable. F. Young. No. 914,908; Mar. 9; Sp. p. 2622; Gaz. vol. 140; p. 439.  
 Nut-lock, Combination. J. Sharp. No. 925,602; June 22; Sp. p. 5242; Gaz. vol. 143; p. 922.  
 Nut, Lock or safety. J. T. Cramer and F. S. Langley. No. 915,559; Mar. 16; Sp. p. 3933; Gaz. vol. 140; p. 678.  
 Nut, &c., locking device. D. Wilson. No. 915,643; Mar. 16; Sp. p. 4104; Gaz. vol. 140; p. 709.  
 Nut, &c., locking device. C. E. Rancillaz. No. 918,367; Apr. 13; Sp. p. 2846; Gaz. vol. 141; p. 504.  
 Nut-locking device. D. H. Miller. No. 916,351; Mar. 23; Sp. p. 5447; Gaz. vol. 140; p. 967.  
 Nut-locking expansion-bolt. C. D. Vernon and J. P. Morningstar. No. 942,226; Dec. 7; Sp. p. 426; Gaz. vol. 149; p. 65.  
 Nut-locking mechanism. C. N. Gilmore. No. 920,947; May 11; Sp. p. 1748; Gaz. vol. 142; p. 310.  
 Nut-locking washer. A. C. Legere. No. 917,776; Apr. 13; Sp. p. 1635; Gaz. vol. 141; p. 304.  
 Nut-locking washer. J. B. Caine. No. 933,886; Sept. 14; Sp. p. 1882; Gaz. vol. 146; p. 311.  
 Nut-machine. F. Lackner. No. 911,599; Feb. 9; Sp. p. 1125; Gaz. vol. 139; p. 217.  
 Nut-making machine. F. R. and C. E. Long. No. 938,598; Nov. 2; Sp. p. 356; Gaz. vol. 148; p. 53.  
 Nut-making machine. F. R. and C. E. Long. No. 938,599; Nov. 2; Sp. p. 360; Gaz. vol. 148; p. 53.  
 Nut-making machine. W. L. Clouse. No. 943,768; Dec. 21; Sp. p. 3737; Gaz. vol. 149; p. 651.  
 Nut, Screw-locking. A. E. Terry. No. 926,517; June 29; Sp. p. 7127; Gaz. vol. 143; p. 1258.  
 Nut-shelling machine. C. S. Stevens. No. 914,082; Mar. 2; Sp. p. 914; Gaz. vol. 140; p. 144.  
 Nut-slotting machine. A. L. Mowry. No. 910,941; Jan. 26; Sp. p. 5113; Gaz. vol. 138; p. 922.  
 Nut-stand, Revolving. F. N. Robinson. No. 910,585; Jan. 26; Sp. p. 4437; Gaz. vol. 138; p. 809.  
 Nut-tapping and other machines, Automatic feed-hopper for. F. C. Tyler. No. 927,902; July 13; Sp. p. 2509; Gaz. vol. 144; p. 428.  
 Nut-tapping machine. F. C. Tyler. No. 927,901; July 13; Sp. p. 2505; Gaz. vol. 144; p. 427.  
 Nut-tapping machine. R. J. Rodd. No. 928,333; July 20; Sp. p. 3424; Gaz. vol. 144; p. 603.  
 Nut wrench, Axle-. J. W. Hall. No. 921,540; May 11; Sp. p. 2967; Gaz. vol. 142; p. 510.  
 Nuts, Dies and punches for making. G. Dunham. No. 928,509; July 20; Sp. p. 3753; Gaz. vol. 144; p. 660.  
 Nuts, Making. G. Dunham. No. 928,508; July 20; Sp. p. 3751; Gaz. vol. 144; p. 660.  
 Nutting-machine. J. V. Culliney. No. 914,807; Mar. 9; Sp. p. 2418; Gaz. vol. 140; p. 406.  
 Oar. H. Chausinand. No. 923,945; June 8; Sp. p. 1863; Gaz. vol. 143; p. 311.  
 Oar-blade-forming machine. J. P. Tarbox. No. 935,334; Sept. 28; Sp. p. 4746; Gaz. vol. 146; p. 841.  
 Oar-blade-shaping machine. J. P. Tarbox. No. 935,333; Sept. 28; Sp. p. 4737; Gaz. vol. 146; p. 841.  
 Oar-blades and the like, Device for forming. M. A. Strand. No. 925,246; June 15; Sp. p. 4554; Gaz. vol. 143; p. 778.  
 Oar-lock. C. Bestman. No. 913,457; Feb. 23; Sp. p. 5016; Gaz. vol. 139; p. 896.  
 Oar-lock. C. J. Malmberg. No. 926,127; June 29; Sp. p. 6362; Gaz. vol. 143; p. 1129.  
 Oar-lock. T. W. Carey, Jr. No. 926,847; July 6; Sp. p. 300; Gaz. vol. 144; p. 48.  
 Oar-lock. T. C. Luce. No. 937,004; Oct. 12; Sp. p. 2908; Gaz. vol. 147; p. 485.  
 Oar-lock. E. L. Montague and E. A. Stewart. No. 943,695; Dec. 21; Sp. p. 3594; Gaz. vol. 149; p. 625.  
 Oar lock, Bow-facing-. H. Hinken. No. 928,449; July 20; Sp. p. 3647; Gaz. vol. 144; p. 642.  
 Oar-lock support. J. S. Bowen. No. 920,720; May 4; Sp. p. 1287; Gaz. vol. 142; p. 206.  
 Oar-rack. E. G. Hodgkins. No. 935,027; Sept. 28; Sp. p. 4128; Gaz. vol. 146; p. 739.  
 Oar-rack. E. G. Hodgkins. No. 941,779; Nov. 30; Sp. p. 7331; Gaz. vol. 148; p. 1235.  
 Oarsmen's apparatus. J. H. Cunningham. No. 927,833; July 13; Sp. p. 2349; Gaz. vol. 144; p. 404.  
 Objective. W. Zschokke. No. 912,352; Feb. 16; Sp. p. 2749; Gaz. vol. 139; p. 501.  
 Obstetrical apparatus. B. H. Simpson. No. 913,989; Mar. 2; Sp. p. 709; Gaz. vol. 140; p. 111.  
 Obstetrical appliance. M. H. Topping. No. 915,127; Mar. 16; Sp. p. 3068; Gaz. vol. 140; p. 538.  
 Obstetrical appliance. F. E. Kelly. No. 930,768; Aug. 10; Sp. p. 2357; Gaz. vol. 145; p. 408.  
 Obstetrical device. H. J. Barnes. No. 940,576; Nov. 16; Sp. p. 4735; Gaz. vol. 148; p. 788.  
 Obstetrical instrument. W. M. Thomas. No. 919,397; Apr. 27; Sp. p. 5230; Gaz. vol. 141; p. 906.  
 Obstetrical pad. M. H. Topping. No. 930,439; Aug. 10; Sp. p. 1645; Gaz. vol. 145; p. 298.  
 Oculum light. R. White and T. Cornick. No. 938,031; Oct. 26; Sp. p. 5070; Gaz. vol. 147; p. 872.  
 Odometer and speedometer, Combined. R. G. Sanford. No. 919,776; Apr. 27; Sp. p. 6022; Gaz. vol. 141; p. 1035.  
 Office and store furniture, fixtures, &c., Fireproof covering for. L. Barg. No. 913,091; Feb. 23; Sp. p. 4264; Gaz. vol. 139; p. 773.  
 Oil and air, Apparatus for supplying, heating, and burning crude. H. E. Weaver. No. 936,688; Oct. 12; Sp. p. 2296; Gaz. vol. 147; p. 381.  
 Oil and gas furnace. J. W. Russell and T. E. Neylon. No. 916,787; Mar. 30; Sp. p. 6326; Gaz. vol. 140; p. 1130.  
 Oil and grease gun, Combined. F. J. Ball. No. 939,465; Nov. 9; Sp. p. 2267; Gaz. vol. 148; p. 376.  
 Oil and water separator. H. F. Maranville. No. 911,314; Feb. 2; Sp. p. 576; Gaz. vol. 139; p. 98.  
 Oil-burner. O. S. Davis. No. 911,704; Feb. 9; Sp. p. 1359; Gaz. vol. 139; p. 253.  
 Oil-burner. J. W. Pippin. No. 915,475; Mar. 16; Sp. p. 3742; Gaz. vol. 140; p. 650.  
 Oil-burner. C. Franklin and I. F. Randolph. No. 915,844; Mar. 23; Sp. p. 4514; Gaz. vol. 140; p. 801.  
 Oil-burner. C. T. Noyes. No. 916,887; Mar. 30; Sp. p. 6508; Gaz. vol. 140; p. 1163.  
 Oil-burner. E. W. Thomas. No. 918,711; Apr. 20; Sp. p. 3650; Gaz. vol. 141; p. 647.  
 Oil-burner. A. F. Johns and W. X. Stevens. No. 919,176; Apr. 20; Sp. p. 4574; Gaz. vol. 141; p. 798.  
 Oil-burner. W. J. Bissonnet. No. 920,419; May 4; Sp. p. 676; Gaz. vol. 142; p. 107.  
 Oil-burner. J. C. Hinz. No. 920,572; May 4; Sp. p. 969; Gaz. vol. 142; p. 158.  
 Oil-burner. W. D. Breckenridge. No. 920,818; May 4; Sp. p. 1473; Gaz. vol. 142; p. 238.  
 Oil-burner. W. D. Breckenridge. No. 920,819; May 4; Sp. p. 1474; Gaz. vol. 142; p. 238.  
 Oil-burner. H. H. Ashlock. No. 924,216; June 8; Sp. p. 2465; Gaz. vol. 143; p. 400.  
 Oil-burner. W. S. Robinson. No. 925,841; June 22; Sp. p. 5781; Gaz. vol. 143; p. 1001.  
 Oil-burner. C. Y. Roop. No. 926,137; June 29; Sp. p. 6386; Gaz. vol. 143; p. 1133.  
 Oil-burner. R. B. Disbrow. No. 926,473; June 29; Sp. p. 7051; Gaz. vol. 143; p. 1243.  
 Oil-burner. H. E. Swift. No. 926,780; July 6; Sp. p. 144; Gaz. vol. 144; p. 24.  
 Oil-burner. A. H. Light. No. 927,561; July 13; Sp. p. 1753; Gaz. vol. 144; p. 313.  
 Oil-burner. C. D. Wright. No. 928,620; July 20; Sp. p. 3992; Gaz. vol. 144; p. 697.  
 Oil-burner. R. P. Selsor. No. 933,674; Sept. 7; Sp. p. 1447; Gaz. vol. 146; p. 218.  
 Oil-burner. J. H. Fones. No. 933,970; Sept. 14; Sp. p. 2053; Gaz. vol. 146; p. 338.  
 Oil-burner. A. K. Lindley. No. 934,616; Sept. 21; Sp. p. 3316; Gaz. vol. 146; p. 577.  
 Oil-burner. W. A. Mack. No. 935,530; Sept. 28; Sp. p. 5145; Gaz. vol. 146; p. 904.  
 Oil-burner. G. R. Wyatt. No. 936,206; Oct. 5; Sp. p. 1259; Gaz. vol. 147; p. 191.  
 Oil-burner. W. Scrimgeour. No. 936,743; Oct. 12; Sp. p. 2397; Gaz. vol. 147; p. 399.  
 Oil-burner. H. S. Milks. No. 936,922; Oct. 12; Sp. p. 2745; Gaz. vol. 147; p. 459.  
 Oil-burner. J. F. Milton. No. 937,218; Oct. 19; Sp. p. 3369; Gaz. vol. 147; p. 584.  
 Oil-burner. E. K. Hill. No. 938,236; Oct. 26; Sp. p. 5521; Gaz. vol. 147; p. 944.  
 Oil-burner. G. W. Moore. No. 938,428; Oct. 26; Sp. p. 5950; Gaz. vol. 147; p. 1009.  
 Oil-burner. W. S. Jenks. No. 939,029; Nov. 2; Sp. p. 1249; Gaz. vol. 148; p. 200.  
 Oil-burner. C. Eckland. No. 939,816; Nov. 9; Sp. p. 3015; Gaz. vol. 148; p. 497.  
 Oil-burner. W. Sutton. No. 940,949; Nov. 23; Sp. p. 5538; Gaz. vol. 148; p. 937.  
 Oil-burner. J. Weintz. No. 941,479; Nov. 30; Sp. p. 6696; Gaz. vol. 148; p. 1134.  
 Oil-burner. J. N. Young. No. 942,028; Nov. 30; Sp. p. 7828; Gaz. vol. 148; p. 1319.  
 Oil-burner. H. F. Arenberg. No. 944,761; Dec. 28; Sp. p. 5898; Gaz. vol. 149; p. 1016.  
 Oil-burner. C. C. Lillibridge. No. 944,886; Dec. 28; Sp. p. 6158; Gaz. vol. 149; p. 1059.  
 Oil-burner, Adjustable draft. D. C. Lamb. No. 926,008; June 22; Sp. p. 6102; Gaz. vol. 143; p. 1055.  
 Oil-burner, Automatic. A. H. Light. No. 940,539; Nov. 16; Sp. p. 4654; Gaz. vol. 148; p. 775.  
 Oil burner, Crude-. J. W. Parks. No. 909,323; Jan. 12; Sp. p. 1820; Gaz. vol. 138; p. 326.  
 Oil burner, Crude-. E. L. Newman. No. 940,713; Nov. 23; Sp. p. 5028; Gaz. vol. 148; p. 859.  
 Oil burner, Crude-. F. D. Stalford. No. 941,284; Nov. 23; Sp. p. 6271; Gaz. vol. 148; p. 1049.  
 Oil burner, Crude-. F. D. Stalford. No. 941,285; Nov. 23; Sp. p. 6272; Gaz. vol. 148; p. 1050.  
 Oil burner, Crude-. W. H. Payne and N. M. Rice. No. 944,633; Dec. 28; Sp. p. 5613; Gaz. vol. 149; p. 974.  
 Oil-burner, Gas-generating. A. J. O'Brien. No. 916,185; Mar. 23; Sp. p. 5150; Gaz. vol. 140; p. 911.  
 Oil-burner, Self-cleaning. P. K. Morcom. No. 924,566; June 8; Sp. p. 3153; Gaz. vol. 143; p. 515.  
 Oil-burner, Welding. B. W. Cribb. No. 936,220; Oct. 5; Sp. p. 1234; Gaz. vol. 147; p. 195.  
 Oil-burning and steam-generating apparatus. J. W. Spurrier. No. 943,481; Dec. 14; Sp. p. 3107; Gaz. vol. 149; p. 523.  
 Oil-burning furnace. C. A. Hammel. No. 935,202; Sept. 28; Sp. p. 4481; Gaz. vol. 146; p. 797.



*Alphabetical list of inventions—Continued.*

- Oil-cake-forming machine. A. W. French. No. 939,492; Nov. 9; Sp. p. 2319; Gaz. vol. 148; p. 384.
- Oil-can. F. P. Brennan. No. 909,747; Jan. 12; Sp. p. 2652; Gaz. vol. 138; p. 468.
- Oil-can. B. V. Chambers. No. 916,998; Apr. 6; Sp. p. 69; Gaz. vol. 141; p. 16.
- Oil-can. A. R. Clark. No. 921,085; May 11; Sp. p. 2026; Gaz. vol. 142; p. 356.
- Oil-can. T. W. Alexander. No. 922,996; May 25; Sp. p. 5970; Gaz. vol. 142; p. 1041.
- Oil-can. R. H. Booth. No. 933,877; Sept. 14; Sp. p. 1868; Gaz. vol. 146; p. 308.
- Oil-can. T. D. Brown. No. 933,881; Sept. 14; Sp. p. 1873; Gaz. vol. 146; p. 309.
- Oil-can. H. J. Allen. No. 934,259; Sept. 14; Sp. p. 2620; Gaz. vol. 146; p. 434.
- Oil-can and the like. T. J. Fitzpatrick. No. 930,748; Aug. 10; Sp. p. 2314; Gaz. vol. 145; p. 401.
- Oil-can for oilstone-boxes. C. B. Cox. No. 913,268; Feb. 23; Sp. p. 4631; Gaz. vol. 139; p. 831.
- Oil-cloth-cutting knife. A. H. Fesemyer. No. 940,308; Nov. 16; Sp. p. 4137; Gaz. vol. 148; p. 698.
- Oil-cup. W. L. Morris. No. 924,487; June 8; Sp. p. 2995; Gaz. vol. 143; p. 489.
- Oil-cup and axle-bearing. F. Heinz. No. 923,652; June 1; Sp. p. 1201; Gaz. vol. 143; p. 185.
- Oil-cup for planes. D. James. No. 940,324; Nov. 16; Sp. p. 4171; Gaz. vol. 148; p. 703.
- Oil-feed for drills. M. Gallowies. No. 935,484; Sept. 28; Sp. p. 5025; Gaz. vol. 146; p. 888.
- Oil filter and purifier. A. H. Franke. No. 911,388; Feb. 2; Sp. p. 713; Gaz. vol. 139; p. 122.
- Oil from cotton-seed or other oleaginous material, Extracting. J. E. Mills. No. 913,751; Mar. 2; Sp. p. 156; Gaz. vol. 140; p. 26.
- Oil from water-bath, Apparatus for recovering kerosene-. V. Fornonzi. No. 929,204; July 27; Sp. p. 5181; Gaz. vol. 144; p. 918.
- Oil from wax, Process and apparatus for the extracting of. J. C. Kuebler. No. 942,917; Dec. 14; Sp. p. 1897; Gaz. vol. 149; p. 331.
- Oil-fuel-combustion process. G. L. Bourne. No. 933,953; Sept. 14; Sp. p. 2019; Gaz. vol. 146; p. 333.
- Oil-gate. J. G. Smith and J. C. McGregor. No. 917,970; Apr. 13; Sp. p. 2038; Gaz. vol. 141; p. 370.
- Oil, Hydraulic system for the distribution of. L. C. Snell. No. 927,008; July 6; Sp. p. 626; Gaz. vol. 144; p. 102.
- Oil, Means for purifying waste. C. A. J. Albert. No. 929,266; July 27; Sp. p. 5309; Gaz. vol. 144; p. 938.
- Oil, Means for reducing the freezing-point of. W. R. Whitney. No. 919,506; Apr. 27; Sp. p. 5494; Gaz. vol. 141; p. 944.
- Oil, Modified cotton-seed. J. H. Filbert. No. 930,280; Aug. 3; Sp. p. 1334; Gaz. vol. 145; p. 220.
- Oil or gas engine. E. Thomson. No. 924,856; June 15; Sp. p. 3786; Gaz. vol. 143; p. 647.
- Oil or grease cups, Attachment for plugs of. J. Towers. No. 922,211; May 18; Sp. p. 4359; Gaz. vol. 142; p. 758.
- Oil-pan and candle-holder. T. Cohn. No. 930,592; Aug. 10; Sp. p. 1995; Gaz. vol. 145; p. 350.
- Oil-purifier. W. S. Elliott. No. 926,179; June 29; Sp. p. 6490; Gaz. vol. 143; p. 1149.
- Oil-ring retainer. F. P. McBerty. No. 928,784; July 20; Sp. p. 4308; Gaz. vol. 144; p. 751.
- Oil-saver. J. H. Gibson. No. 915,589; Mar. 16; Sp. p. 3984; Gaz. vol. 140; p. 688.
- Oil, Separating water from. J. W. Pitcock. No. 928,280; July 20; Sp. p. 3315; Gaz. vol. 144; p. 585.
- Oil-separator. A. E. Embree. No. 913,000; Feb. 23; Sp. p. 4091; Gaz. vol. 139; p. 742.
- Oil-supply device for gas-engines, Float-controlled. J. A. Charter. No. 933,888; Sept. 14; Sp. p. 1884; Gaz. vol. 146; p. 311.
- Oil-switch. H. L. Van Valkenburg. No. 922,825; May 25; Sp. p. 5629; Gaz. vol. 142; p. 986.
- Oil-switch. H. W. Cheney. No. 925,994; June 22; Sp. p. 6075; Gaz. vol. 143; p. 1050.
- Oil-switch. H. W. Cheney. No. 930,156; Aug. 3; Sp. p. 1124; Gaz. vol. 145; p. 183.
- Oil-tank cut-off, Automatic. B. G. Jewell. No. 921,712; May 18; Sp. p. 3338; Gaz. vol. 142; p. 594.
- Oil to carburetors, Means for supplying. M. Steel, Jr. No. 934,366; Sept. 14; Sp. p. 2813; Gaz. vol. 146; p. 469.
- Oil-waste-cleaning apparatus. J. I. Orkin and J. Isaacs. No. 936,657; Oct. 12; Sp. p. 2235; Gaz. vol. 147; p. 370.
- Oils, &c., Apparatus for storing, supplying, and utilizing mineral. J. F. Connell. No. 930,268; Aug. 3; Sp. p. 1309; Gaz. vol. 145; p. 216.
- Oils, Apparatus for vaporizing hydrocarbon. W. P. Flint. No. 934,599; Sept. 21; Sp. p. 3268; Gaz. vol. 146; p. 570.
- Oils, Improving the odor of vegetable. J. H. Filbert. No. 929,845; Aug. 3; Sp. p. 479; Gaz. vol. 145; p. 76.
- Oils, Manufacture of lubricating and anticorrosive. F. W. Klever. No. 919,884; Apr. 27; Sp. p. 6276; Gaz. vol. 141; p. 1071.
- Oilier, Automatic. E. E. Messmore and W. Severn. No. 911,513; Feb. 2; Sp. p. 930; Gaz. vol. 139; p. 162.
- Oilier, Automatic. J. L. Schroder. No. 912,740; Feb. 16; Sp. p. 3593; Gaz. vol. 139; p. 634.
- Oilier, Car-. G. G. Crane. No. 921,594; May 11; Sp. p. 3061; Gaz. vol. 142; p. 526.
- Oilier, Floor-. A. Weber. No. 908,915; Jan. 5; Sp. p. 998; Gaz. vol. 138; p. 139.
- Oilier, Floor-. J. T. Hart. No. 929,943; Aug. 3; Sp. p. 683; Gaz. vol. 145; p. 109.
- Oilier, Fountain-. O. O. Aune. No. 925,794; June 22; Sp. p. 5683; Gaz. vol. 143; p. 985.
- Oilier, Road-. W. H. Gailor. No. 932,116; Aug. 24; Sp. p. 5303; Gaz. vol. 145; p. 903.
- Oilier, Road-. C. M. Haeske. No. 936,716; Oct. 12; Sp. p. 2350; Gaz. vol. 147; p. 390.
- Oilier, Windmill-. H. A. Mowrey. No. 927,669; July 13; Sp. p. 2019; Gaz. vol. 144; p. 359.
- Oiling device. M. E. Brigham. No. 915,731; Mar. 23; Sp. p. 4305; Gaz. vol. 140; p. 766.
- Oiling device. J. Vidina. No. 934,111; Sept. 14; Sp. p. 2331; Gaz. vol. 146; p. 382.
- Oiling device. J. W. Maddox. No. 935,917; Oct. 5; Sp. p. 683; Gaz. vol. 147; p. 99.
- Oiling device, Belt-. C. Benson. No. 924,417; June 8; Sp. p. 2862; Gaz. vol. 143; p. 467.
- Oiling device for gas-meter diaphragms, Automatic. J. R. Daly. No. 939,675; Nov. 9; Sp. p. 2717; Gaz. vol. 148; p. 449.
- Oiling device for gas-meter diaphragms, Automatic. J. R. Daly. No. 940,304; Nov. 16; Sp. p. 4129; Gaz. vol. 148; p. 696.
- Oiling device for pulleys or wheels, Self-. J. D. Oliphant. No. 928,688; July 20; Sp. p. 4134; Gaz. vol. 144; p. 720.
- Oiling device for stock-dies. F. Thatcher. No. 932,513; Aug. 31; Sp. p. 6100; Gaz. vol. 145; p. 1058.
- Oiling device, Saw-. J. and H. Schuring. No. 927,756; July 13; Sp. p. 2191; Gaz. vol. 144; p. 379.
- Oiling device, Track-. D. F. Robinson. No. 944,464; Dec. 28; Sp. p. 5225; Gaz. vol. 149; p. 915.
- Oiling fellies, Apparatus for. D. D. Frisbee. No. 943,674; Dec. 21; Sp. p. 3553; Gaz. vol. 149; p. 618.
- Oilstone-holder. F. J. Badge and C. L. Carle. No. 935,350; Sept. 28; Sp. p. 4791; Gaz. vol. 146; p. 847.
- Oily materials, Method and apparatus for atomizing and spraying. H. O. Brandt. No. 913,686; Mar. 2; Sp. p. 14; Gaz. vol. 140; p. 5.
- Ointment-mill. W. O. Kaiser. No. 915,864; Mar. 23; Sp. p. 4549; Gaz. vol. 140; p. 808.
- 1-para-dialkylaminoaryl-2,4-dialkyl-3-oxymethyl-5-pyrazolone. F. Stolz and K. Streitzwolf. No. 936,380; Oct. 12; Sp. p. 1632; Gaz. vol. 147; p. 277.
- Onion-sets, Machine for topping and cleaning. J. R. Dimick. No. 936,224; Oct. 5; Sp. p. 1290; Gaz. vol. 147; p. 197.
- Onion-topping machine. C. J. Petrie. No. 926,286; June 29; Sp. p. 6701; Gaz. vol. 143; p. 1182.
- Open-hearth furnace. L. L. Knox and M. Murray. No. 919,184; Apr. 20; Sp. p. 4586; Gaz. vol. 141; p. 800.
- Open-hearth furnace. L. L. Knox and M. Murray. No. 938,245; Oct. 26; Sp. p. 5540; Gaz. vol. 147; p. 947.
- Open-welt guide. W. Gibson. No. 930,469; Aug. 10; Sp. p. 1705; Gaz. vol. 145; p. 308.
- Opera-chair. A. R. Milner. No. 925,492; June 22; Sp. p. 5016; Gaz. vol. 143; p. 855.
- Opera-chair. A. Wanner, Jr. No. 931,821; Aug. 24; Sp. p. 4656; Gaz. vol. 145; p. 806.
- Operating-table. G. R. De Nise. No. 915,833; Mar. 23; Sp. p. 4496; Gaz. vol. 140; p. 797.
- Operating-table. J. Laughlin. No. 926,579; June 29; Sp. p. 7238; Gaz. vol. 143; p. 1279.
- Operating-table for osteopathic treatment. W. O. Galbreath. No. 933,170; Sept. 7; Sp. p. 282; Gaz. vol. 146; p. 47.
- Operator's key. R. H. Manson. No. 927,664; July 13; Sp. p. 2012; Gaz. vol. 144; p. 350.
- Ophthalmoscope. F. Baum. No. 943,728; Dec. 21; Sp. p. 3668; Gaz. vol. 149; p. 637.
- Optical cystoscope system. M. von Rohr. No. 940,894; Nov. 23; Sp. p. 5425; Gaz. vol. 148; p. 919.
- Optical-illusion apparatus. E. P. Hoyt. No. 942,560; Dec. 7; Sp. p. 1112; Gaz. vol. 149; p. 180.
- Optical-illusion device. F. C. Perkins. No. 909,450; Jan. 12; Sp. p. 2055; Gaz. vol. 138; p. 366.
- Optical-illusion device. F. J. Wiedenbeck. No. 914,904; Mar. 9; Sp. p. 2616; Gaz. vol. 140; p. 438.
- Optical instrument. A. Hahn. No. 926,061; June 22; Sp. p. 6214; Gaz. vol. 143; p. 1073.
- Optical instrument. C. B. Boyle. No. 931,673; Aug. 17; Sp. p. 4295; Gaz. vol. 145; p. 734.
- Optical instrument. F. L. G. Kollmorgen. No. 941,021; Nov. 23; Sp. p. 5696; Gaz. vol. 148; p. 961.
- Optical projection of colored images, Apparatus for the. B. Jumeaux. No. 944,787; Dec. 28; Sp. p. 5942; Gaz. vol. 149; p. 1025.
- Opto-refractor meter. F. B. Hughes. No. 929,134; July 27; Sp. p. 5039; Gaz. vol. 144; p. 896.
- Optometer. H. Smith. No. 919,481; Apr. 27; Sp. p. 5430; Gaz. vol. 141; p. 935.
- Optometer. J. E. Goodman. No. 922,276; May 18; Sp. p. 4492; Gaz. vol. 142; p. 779.
- Optometer. J. H. Martin. No. 941,581; Nov. 30; Sp. p. 6897; Gaz. vol. 148; p. 1167.
- Optometer. H. L. De Zeng. No. 941,766; Nov. 30; Sp. p. 7305; Gaz. vol. 148; p. 1231.
- Optometroscope. M. W. Gantt. No. 944,853; Dec. 28; Sp. p. 6095; Gaz. vol. 149; p. 1048.
- Orange-clipper. W. Levin. No. 912,248; Feb. 9; Sp. p. 2476; Gaz. vol. 139; p. 427.
- Oranges, Machine for washing. A. Taplin. No. 937,970; Oct. 26; Sp. p. 4942; Gaz. vol. 147; p. 852.
- Orchard-heater. H. P. Holt. No. 926,120; June 29; Sp. p. 6348; Gaz. vol. 143; p. 1127.
- Orchard-heating device. F. Stapp. No. 915,240; Mar. 16; Sp. p. 3286; Gaz. vol. 140; p. 574.
- Orchard-heating device. J. L. Hamilton. No. 940,965; Nov. 23; Sp. p. 5568; Gaz. vol. 148; p. 942.
- Orchestrons and similar musical instruments, Barrel for. P. Lochmann. No. 921,548; May 11; Sp. p. 2980; Gaz. vol. 142; p. 512.
- Order holder, Manifold. E. A. Trommald and A. von Boecklin. No. 910,099; Jan. 19; Sp. p. 3357; Gaz. vol. 138; p. 617.



*Alphabetical list of inventions—Continued.*

- Ordnance. J. J. Bowes, Jr. No. 923,620; June 1; Sp. p. 1140; Gaz. vol. 143; p. 175.  
 Ordnance adjusting-gear. N. Sjöquist. No. 923,207; June 1; Sp. p. 183; Gaz. vol. 143; p. 30.  
 Ordnance after firing. Cleaning the explosive-chambers of. W. D. Smith. No. 944,974; Dec. 28; Sp. p. 6329; Gaz. vol. 149; p. 1086.  
 Ordnance, Ammunition-hoisting apparatus for heavy. A. T. Dawson and J. Horne. No. 938,560; Nov. 2; Sp. p. 269; Gaz. vol. 148; p. 40.  
 Ordnance, Breach-loading. A. T. Dawson and G. T. Buckham. No. 921,960; May 18; Sp. p. 3853; Gaz. vol. 142; p. 675.  
 Ordnance, Firing mechanism for breech-loading. A. T. Dawson and G. T. Buckham. No. 922,268; May 18; Sp. p. 4475; Gaz. vol. 142; p. 777.  
 Ordnance recoil-check. L. M. Fuller. No. 913,488; Feb. 23; Sp. p. 5065; Gaz. vol. 139; p. 905.  
 Ordnance sighting apparatus. A. T. Dawson and G. T. Buckham. No. 913,705; Mar. 2; Sp. p. 55; Gaz. vol. 140; p. 12.  
 Ordnance sighting apparatus. A. T. Dawson and G. T. Buckham. No. 922,397; May 18; Sp. p. 4724; Gaz. vol. 142; p. 818.  
 Ordnance sighting apparatus. A. T. Dawson and G. T. Buckham. No. 922,398; May 18; Sp. p. 4725; Gaz. vol. 142; p. 819.  
 Ordnance sighting apparatus. A. T. Dawson and G. T. Buckham. No. 924,746; June 15; Sp. p. 3555; Gaz. vol. 143; p. 610.  
 Ordnance, Smoke-remover for. J. Krone and J. Becker. No. 932,032; Aug. 24; Sp. p. 5125; Gaz. vol. 145; p. 876.  
 Ordnance, Telescope sight for. A. König. No. 937,245; Oct. 19; Sp. p. 3431; Gaz. vol. 147; p. 593.  
 Ore and other materials, Oscillating screen for. A. B. Colcord. No. 911,113; Feb. 2; Sp. p. 173; Gaz. vol. 139; p. 33.  
 Ore, cement, and general pulverizing mill. A. Tregoning. No. 913,176; Feb. 23; Sp. p. 4438; Gaz. vol. 139; p. 800.  
 Ore-classifier. O. M. Kuchs. No. 927,059; July 6; Sp. p. 758; Gaz. vol. 144; p. 120.  
 Ore-classifier. F. G. Janney. No. 928,455; July 20; Sp. p. 3655; Gaz. vol. 144; p. 644.  
 Ore-concentrating apparatus. W. M. Sanders. No. 911,077; Feb. 2; Sp. p. 108; Gaz. vol. 139; p. 20.  
 Ore-concentrating jig and coal-washer. G. C. Hackstaff. No. 922,419; May 18; Sp. p. 4763; Gaz. vol. 142; p. 826.  
 Ore-concentrating table. T. W. Scott. No. 944,917; Dec. 28; Sp. p. 6219; Gaz. vol. 149; p. 1069.  
 Ore-concentrator. S. K. Behrend. No. 916,257; Mar. 23; Sp. p. 5282; Gaz. vol. 140; p. 934.  
 Ore-concentrator. E. Deister. No. 921,089; May 11; Sp. p. 2032; Gaz. vol. 142; p. 358.  
 Ore-concentrator. E. Deister. No. 921,090; May 11; Sp. p. 2035; Gaz. vol. 142; p. 358.  
 Ore-concentrator. C. L. McKesson and O. S. Black. No. 941,333; Nov. 23; Sp. p. 6353; Gaz. vol. 148; p. 1063.  
 Ore-concentrator. F. D. Melhuish. No. 944,567; Dec. 28; Sp. p. 5479; Gaz. vol. 149; p. 951.  
 Ore-concentrator belt. T. R. Brooks and G. E. Bateman. No. 931,991; Aug. 24; Sp. p. 5031; Gaz. vol. 145; p. 862.  
 Ore-concentrator driving mechanism. E. Deister. No. 909,765; Jan. 12; Sp. p. 2682; Gaz. vol. 138; p. 474.  
 Ore-cooler. F. D. Baker. No. 943,294; Dec. 14; Sp. p. 2719; Gaz. vol. 149; p. 459.  
 Ore-crusher. C. O. Michaelsen. No. 908,592; Jan. 5; Sp. p. 342; Gaz. vol. 138; p. 55.  
 Ore-crusher. R. S., R. B., and A. B. Watt. No. 929,177; July 27; Sp. p. 5120; Gaz. vol. 144; p. 910.  
 Ore-crusher. C. O. Michaelsen. No. 931,210; Aug. 17; Sp. p. 3355; Gaz. vol. 145; p. 583.  
 Ore-crusher. A. I. Eagle and A. E. Carlson. No. 933,832; Sept. 14; Sp. p. 1771; Gaz. vol. 146; p. 294.  
 Ore crusher and pulverizer, Combined. C. C. Pratt. No. 934,694; Sept. 21; Sp. p. 3463; Gaz. vol. 146; p. 604.  
 Ore-crusher, Eccentric. S. Abernathy. No. 935,630; Oct. 5; Sp. p. 2; Gaz. vol. 147; p. 3.  
 Ore-crushing apparatus. H. W. Hardinge. No. 928,967; July 27; Sp. p. 4681; Gaz. vol. 144; p. 840.  
 Ore-crushing machine. C. C. Lane. No. 930,198; Aug. 3; Sp. p. 1200; Gaz. vol. 145; p. 196.  
 Ore-dehydrating machine. W. A. Neill. No. 915,371; Mar. 16; Sp. p. 3530; Gaz. vol. 140; p. 616.  
 Ore desulfurizing and sintering apparatus. A. S. Dwight and R. L. Lloyd. No. 916,395; Mar. 23; Sp. p. 5541; Gaz. vol. 140; p. 982.  
 Ore-dressing machines, Slime-breaking attachment for. J. O. Dimmick. No. 927,954; July 13; Sp. p. 2625; Gaz. vol. 144; p. 446.  
 Ore-dust from furnace-gases, Apparatus for removing. C. E. Briney. No. 914,696; Mar. 9; Sp. p. 2200; Gaz. vol. 140; p. 369.  
 Ore-extractor, Rotary. J. O. Blackburn. No. 923,319; June 1; Sp. p. 488; Gaz. vol. 143; p. 69.  
 Ore-feeder. T. M. Topp. No. 910,097; Jan. 19; Sp. p. 3350; Gaz. vol. 138; p. 616.  
 Ore-feeder. E. F. Gustafson. No. 925,337; June 15; Sp. p. 4712; Gaz. vol. 143; p. 805.  
 Ore-feeder. N. V. Fitts. No. 926,085; June 22; Sp. p. 6272; Gaz. vol. 143; p. 1081.  
 Ore, galvanizer's dross, and the like, Apparatus for use in smelting zinc. E. H. Hopkins. No. 914,839; Mar. 9; Sp. p. 2495; Gaz. vol. 140; p. 416.  
 Ore granulator or pulverizer. J. G. Kirksey. No. 931,316; Aug. 17; Sp. p. 3597; Gaz. vol. 145; p. 620.  
 Ore-grinding machine. G. A. Denny. No. 909,286; Jan. 12; Sp. p. 1745; Gaz. vol. 138; p. 314.  
 Ore-grinding machine. J. C. Tatman. No. 943,486; Dec. 14; Sp. p. 3114; Gaz. vol. 149; p. 525.  
 Ore-jig. S. W. Traylor. No. 915,508; Mar. 16; Sp. p. 3305; Gaz. vol. 140; p. 661.  
 Ore-jigger. W. M. Williams. No. 923,917; June 8; Sp. p. 1817; Gaz. vol. 143; p. 303.  
 Ore matter, Means for the concentration by amalgamation of values of metallic. R. Luckenbach. No. 938,676; Nov. 2; Sp. p. 515; Gaz. vol. 148; p. 79.  
 Ore-pulverizer. G. P. Good and W. L. McCullough. No. 922,577; May 25; Sp. p. 5106; Gaz. vol. 142; p. 906.  
 Ore pulverizing and amalgamating apparatus. R. Luckenbach. No. 936,645; Oct. 12; Sp. p. 2212; Gaz. vol. 147; p. 366.  
 Ore-reducing apparatus. W. V. Jean. No. 926,492; June 29; Sp. p. 7083; Gaz. vol. 143; p. 1249.  
 Ore-reducing furnace. G. F. Rendall. No. 916,487; Mar. 30; Sp. p. 5746; Gaz. vol. 140; p. 1037.  
 Ore-reducing furnace. G. F. Rendall. No. 931,145; Aug. 17; Sp. p. 3215; Gaz. vol. 145; p. 561.  
 Ore-reducing furnace. G. Gröndal. No. 936,124; Oct. 5; Sp. p. 1107; Gaz. vol. 147; p. 168.  
 Ore, Roasting and sintering. A. S. Dwight. No. 916,397; Mar. 23; Sp. p. 5549; Gaz. vol. 140; p. 983.  
 Ore roasting and sintering apparatus. A. S. Dwight. No. 916,391; Mar. 23; Sp. p. 5522; Gaz. vol. 140; p. 981.  
 Ore roasting and sintering apparatus. A. S. Dwight. No. 916,392; Mar. 23; Sp. p. 5529; Gaz. vol. 140; p. 981.  
 Ore roasting and sintering apparatus. A. S. Dwight and R. L. Lloyd. No. 916,393; Mar. 23; Sp. p. 5534; Gaz. vol. 140; p. 981.  
 Ore roasting and sintering apparatus. A. S. Dwight and R. L. Lloyd. No. 916,394; Mar. 23; Sp. p. 5539; Gaz. vol. 140; p. 982.  
 Ore-roasting furnace. A. R. Willey. No. 930,254; Aug. 3; Sp. p. 1290; Gaz. vol. 145; p. 213.  
 Ore-roasting pot. F. D. Baker. No. 942,810; Dec. 7; Sp. p. 1597; Gaz. vol. 149; p. 262.  
 Ore-screen. A. B. Meiklejohn and J. R. Villars. No. 935,216; Sept. 28; Sp. p. 4509; Gaz. vol. 146; p. 802.  
 Ore-separating apparatus. W. H. Silberhorn. No. 931,153; Aug. 17; Sp. p. 3231; Gaz. vol. 145; p. 564.  
 Ore-separating machine. W. V. Jean. No. 926,493; June 29; Sp. p. 7084; Gaz. vol. 143; p. 1250.  
 Ore-separating machine, Dry-. W. W. Bonson and W. L. McLaughlin. No. 933,053; Sept. 7; Sp. p. 21; Gaz. vol. 146; p. 6.  
 Ore separating or concentrating apparatus. G. F. Godley. No. 941,634; Nov. 30; Sp. p. 7004; Gaz. vol. 148; p. 1185.  
 Ore-separating process. M. Ruthenburg. No. 933,491; Sept. 7; Sp. p. 1096; Gaz. vol. 146; p. 157.  
 Ore-separator. A. S. Campbell. No. 913,258; Feb. 23; Sp. p. 4614; Gaz. vol. 139; p. 828.  
 Ore-separator. F. M. Mott. No. 918,461; Apr. 13; Sp. p. 3038; Gaz. vol. 141; p. 534.  
 Ore-separator. E. A. Ross. No. 919,246; Apr. 20; Sp. p. 4885; Gaz. vol. 141; p. 820.  
 Ore-separator. J. T. Donovan, Sr. No. 921,374; May 11; Sp. p. 2647; Gaz. vol. 142; p. 455.  
 Ore-separator. O. Medaris. No. 921,427; May 11; Sp. p. 2743; Gaz. vol. 142; p. 472.  
 Ore-separator. W. S. La Shells. No. 922,163; May 18; Sp. p. 4242; Gaz. vol. 142; p. 741.  
 Ore-separator. R. M. Clark. No. 922,259; May 18; Sp. p. 4462; Gaz. vol. 142; p. 774.  
 Ore-separator. C. M. Mullen. No. 923,983; June 8; Sp. p. 1963; Gaz. vol. 143; p. 326.  
 Ore-separator. J. Krabill. No. 926,577; June 29; Sp. p. 7233; Gaz. vol. 143; p. 1278.  
 Ore-separator. F. T. Snyder. No. 944,699; Dec. 28; Sp. p. 5749; Gaz. vol. 149; p. 995.  
 Ore separator and concentrator. H. L. Orr. No. 937,525; Oct. 19; Sp. p. 3582; Gaz. vol. 147; p. 619.  
 Ore-separator, Dry. J. J. Lapping. No. 926,428; June 29; Sp. p. 6978; Gaz. vol. 143; p. 1229.  
 Ore-separator, Centrifugal. P. F. Peck. No. 917,120; Apr. 6; Sp. p. 315; Gaz. vol. 141; p. 58.  
 Ore-separator, Centrifugal. P. F. Peck. No. 917,121; Apr. 6; Sp. p. 322; Gaz. vol. 141; p. 58.  
 Ore-separator, Centrifugal. P. F. Peck. No. 917,122; Apr. 6; Sp. p. 329; Gaz. vol. 141; p. 59.  
 Ore-separator, Centrifugal. P. F. Peck. No. 917,123; Apr. 6; Sp. p. 334; Gaz. vol. 141; p. 59.  
 Ore-separator, Electromagnetic. T. Charlton. No. 912,363; Feb. 16; Sp. p. 2765; Gaz. vol. 139; p. 504.  
 Ore-separator, Magnetic. W. D. Ludwick. No. 939,523; Nov. 9; Sp. p. 2376; Gaz. vol. 148; p. 394.  
 Ore-smelter. E. A. Mathers. No. 916,176; Mar. 23; Sp. p. 5132; Gaz. vol. 140; p. 908.  
 Ore-treating apparatus. F. E. Woodbury, B. Harris, and C. H. Benedict. No. 914,002; Mar. 2; Sp. p. 731; Gaz. vol. 140; p. 116.  
 Ore-treating furnace. C. C. Medberry. No. 922,609; May 25; Sp. p. 5174; Gaz. vol. 142; p. 916.  
 Ore-treating furnace. H. C. Bellinger. No. 942,052; Dec. 7; Sp. p. 18; Gaz. vol. 149; p. 5.  
 Ore-treating furnace, Universal. C. C. Medberry. No. 912,394; Feb. 16; Sp. p. 2832; Gaz. vol. 139; p. 515.  
 Ore, Treating iron. C. B. Morgan. No. 910,707; Jan. 26; Sp. p. 4660; Gaz. vol. 138; p. 847.  
 Ore-treating machine. J. W. R. Laxton. No. 909,429; Jan. 12; Sp. p. 2017; Gaz. vol. 138; p. 359.  
 Ore-volatilizing furnace, Revolving. H. H. Hughes. No. 922,906; May 25; Sp. p. 5803; Gaz. vol. 142; p. 1012.  
 Ore washer and concentrator. A. Dieu. No. 933,633; Sept. 7; Sp. p. 1369; Gaz. vol. 146; p. 204.  
 Ores, Amalgamating and separating metallic. R. Luckenbach. No. 937,033; Oct. 12; Sp. p. 2978; Gaz. vol. 147; p. 494.  
 Ores and other materials, Apparatus for disintegrating. H. W. Hardinge. No. 908,861; Jan. 5; Sp. p. 886; Gaz. vol. 138; p. 141.  
 Ores and speiss, Treating arsenical. A. G. Betts. No. 927,021; July 6; Sp. p. 659; Gaz. vol. 144; p. 107.



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- Ores and tailings, Amalgamator and concentrator for. J. R. Harrison. No. 909,293; Jan. 12; Sp. p. 1756; Gaz. vol. 138; p. 316.
- Ores, Apparatus for pulverizing, desulfurizing, or oxidizing metallic and other. R. Luckenbach. No. 938,005; Oct. 26; Sp. p. 5016; Gaz. vol. 147; p. 864.
- Ores by flotation, Apparatus for separating. A. J. F. De Bavay. No. 912,783; Feb. 16; Sp. p. 3690; Gaz. vol. 139; p. 648.
- Ores, &c., Calcining, desulfurizing, agglomerating, and sintering. F. D. Weeks. No. 916,903; Mar. 30; Sp. p. 6545; Gaz. vol. 140; p. 1168.
- Ores, Chloridizing. C. A. Diehl. No. 938,044; Oct. 26; Sp. p. 5097; Gaz. vol. 147; p. 877.
- Ores, Concentrating. A. H. Stebbins. No. 923,455; June 1; Sp. p. 775; Gaz. vol. 143; p. 115.
- Ores containing precious metals, Ammonia-cyanid process of treating. D. Mosher. No. 911,254; Feb. 2; Sp. p. 464; Gaz. vol. 139; p. 80.
- Ores, Desulfurizing and agglomerating. C. Robinson. No. 926,289; June 29; Sp. p. 6705; Gaz. vol. 143; p. 1183.
- Ores, Extracting precious metals from. I. Kitsee. No. 913,735; Mar. 2; Sp. p. 116; Gaz. vol. 140; p. 21.
- Ores, Furnace for the reduction of. G. F. Rendall. No. 910,086; Jan. 19; Sp. p. 3329; Gaz. vol. 138; p. 613.
- Ores, Obtaining nickel from silicious. E. F. Price. No. 909,666; Jan. 12; Sp. p. 2487; Gaz. vol. 138; p. 441.
- Ores, Obtaining nickel from silicious. E. F. Price. No. 909,667; Jan. 12; Sp. p. 2488; Gaz. vol. 138; p. 441.
- Ores of iron, Smelting. E. D. Kendall. (Reissue.) No. 12,918; Feb. 9; Sp. p. 2577; Gaz. vol. 139; p. 445.
- Ores, Oxidizing. B. E. Eldred. No. 932,689; Aug. 31; Sp. p. 6485; Gaz. vol. 145; p. 1118.
- Ores, Reducing. J. Herman. No. 909,795; Jan. 12; Sp. p. 2742; Gaz. vol. 138; p. 483.
- Ores, Reducing. N. Wikström. No. 914,622; Mar. 9; Sp. p. 2030; Gaz. vol. 140; p. 346.
- Ores, Reducing. F. J. Tone. No. 921,183; May 11; Sp. p. 2218; Gaz. vol. 142; p. 390.
- Ores, Reducing. F. M. Becket. No. 924,130; June 8; Sp. p. 2218; Gaz. vol. 143; p. 370.
- Ores, Reducing. F. M. Becket. No. 930,027; Aug. 3; Sp. p. 853; Gaz. vol. 145; p. 137.
- Ores, Reducing. F. M. Becket. No. 930,028; Aug. 3; Sp. p. 854; Gaz. vol. 145; p. 138.
- Ores, Reducing. G. F. Rendall. No. 932,175; Aug. 24; Sp. p. 5414; Gaz. vol. 145; p. 923.
- Ores, Reducing. K. A. F. Hiorth. No. 934,170; Sept. 14; Sp. p. 2457; Gaz. vol. 146; p. 404.
- Ores, Removing sulfur, arsenic, and other like impurities from refractory. F. Cotton. No. 922,088; May 18; Sp. p. 4112; Gaz. vol. 142; p. 718.
- Ores, Roasting. H. K. Hess. No. 912,586; Feb. 16; Sp. p. 3203; Gaz. vol. 139; p. 574.
- Ores, Roasting and sintering. A. S. Dwight. No. 916,396; Mar. 23; Sp. p. 5544; Gaz. vol. 140; p. 983.
- Ores, Securing the chloridization of. W. Koehler. No. 942,569; Dec. 7; Sp. p. 1125; Gaz. vol. 149; p. 183.
- Ores, Smelting. J. T. Carrick. No. 913,655; Feb. 23; Sp. p. 5463; Gaz. vol. 139; p. 962.
- Ores, Testing or reducing. E. P. Welch. No. 919,663; Apr. 27; Sp. p. 5814; Gaz. vol. 141; p. 998.
- Ores, Treating. R. McKnight. No. 912,485; Feb. 16; Sp. p. 3010; Gaz. vol. 139; p. 544.
- Ores, Treating. H. A. Hogel. No. 927,046; July 6; Sp. p. 729; Gaz. vol. 144; p. 115.
- Ores, Treating. P. L. T. Héroult. No. 930,666; Aug. 10; Sp. p. 2146; Gaz. vol. 145; p. 375.
- Ores, Treating. A. A. Lockwood and M. R. A. Samuel. No. 933,717; Sept. 7; Sp. p. 1547; Gaz. vol. 146; p. 234.
- Ores, Treating. J. R. Parks. No. 940,821; Nov. 23; Sp. p. 5279; Gaz. vol. 148; p. 895.
- Ores, Treating certain. H. S. Auerbach. No. 941,904; Nov. 30; Sp. p. 7601; Gaz. vol. 148; p. 1280.
- Ores, Treating complex sulfid. G. E. Kingsley. No. 914,730; Mar. 9; Sp. p. 2274; Gaz. vol. 140; p. 381.
- Ores, Treating nickel. A. G. Betts. No. 923,005; May 25; Sp. p. 5983; Gaz. vol. 142; p. 1044.
- Ores, Treating poor sulfid. A. Holdsworth. No. 938,055; Oct. 26; Sp. p. 5125; Gaz. vol. 147; p. 881.
- Ores, Treatment of. A. L. Dean. No. 914,391; Mar. 9; Sp. p. 1579; Gaz. vol. 140; p. 268.
- Organ. E. Wright. No. 912,767; Feb. 16; Sp. p. 3650; Gaz. vol. 139; p. 643.
- Organ-case, Folding. F. L. Caulkins and F. Wienand. No. 910,501; Jan. 26; Sp. p. 4250; Gaz. vol. 138; p. 780.
- Organ, Folding. F. L. Caulkins and F. Wienand. No. 931,678; Aug. 17; Sp. p. 4305; Gaz. vol. 145; p. 736.
- Organ, Folding. H. Faber. No. 944,483; Dec. 28; Sp. p. 5262; Gaz. vol. 149; p. 921.
- Organ, Pipe. H. Tellers. No. 911,918; Feb. 9; Sp. p. 1741; Gaz. vol. 139; p. 322.
- Organ, Pipe. T. Etwell. No. 930,276; Aug. 3; Sp. p. 1325; Gaz. vol. 145; p. 219.
- Organ, Portable reed-. W. J. and N. Kiessling. No. 909,911; Jan. 19; Sp. p. 2988; Gaz. vol. 138; p. 554.
- Organ, Reed-. G. A. Buschmann. No. 934,161; Sept. 14; Sp. p. 2441; Gaz. vol. 146; p. 401.
- Organ, Reed-. L. A. McCord. No. 939,065; Nov. 2; Sp. p. 1315; Gaz. vol. 148; p. 212.
- Organ stop-action, Combination. H. G. Kinder. No. 929,138; July 27; Sp. p. 5049; Gaz. vol. 144; p. 897.
- Organs or similar musical instruments, Key and key-action for. C. S. Haskell. No. 921,610; May 11; Sp. p. 3114; Gaz. vol. 142; p. 532.
- Organs, pianolas, &c., Pedal attachment for. C. H. La Dew. No. 944,878; Dec. 28; Sp. p. 6143; Gaz. vol. 149; p. 1057.
- Organs, pianos, &c., Key for. G. L. Cheney. No. 927,945; July 13; Sp. p. 2598; Gaz. vol. 144; p. 442.
- Organic bodies, Chlorinating. C. Ellis and K. P. McElroy. No. 914,251; Mar. 2; Sp. p. 1276; Gaz. vol. 140; p. 198.
- Orienting mechanism. C. H. Pope. No. 913,051; Feb. 23; Sp. p. 4190; Gaz. vol. 139; p. 759.
- Ornamental glass. C. H. Brabrook. No. 921,355; May 11; Sp. p. 2602; Gaz. vol. 142; p. 448.
- Ornamental pin or badge. C. W. Little. No. 932,480; Aug. 31; Sp. p. 6080; Gaz. vol. 145; p. 1046.
- Ortho-dioxiphenylethanolmethylamin and making same. F. Stolz and F. Flaecher. No. 930,703; Aug. 10; Sp. p. 2222; Gaz. vol. 145; p. 386.
- Orthopedic apparatus. K. Johannesen. No. 911,243; Feb. 2; Sp. p. 442; Gaz. vol. 139; p. 76.
- Orthopedic device. L. Roth. No. 932,177; Aug. 24; Sp. p. 5417; Gaz. vol. 145; p. 924.
- Oscillating gate. D. Pritchard and A. Beam. No. 920,492; May 4; Sp. p. 801; Gaz. vol. 142; p. 130.
- Oscillating motor. W. V. Frank. No. 930,657; Aug. 10; Sp. p. 2128; Gaz. vol. 145; p. 371.
- Oscillation detector and rectifier. G. W. Pickard. No. 912,613; Feb. 16; Sp. p. 3292; Gaz. vol. 139; p. 590.
- Oscillation device. G. W. Pickard. No. 933,263; Sept. 7; Sp. p. 536; Gaz. vol. 146; p. 82.
- Oscillation-receiver. G. W. Pickard. No. 912,726; Feb. 16; Sp. p. 3560; Gaz. vol. 139; p. 629.
- Oscillation-receiver. G. W. Pickard. No. 924,827; June 15; Sp. p. 3724; Gaz. vol. 143; p. 637.
- Oscillations, Producing high-frequency. R. A. Fessenden. No. 932,111; Aug. 24; Sp. p. 5292; Gaz. vol. 145; p. 902.
- Oscillimeter. H. Shoemaker. No. 932,819; Aug. 31; Sp. p. 6760; Gaz. vol. 145; p. 1159.
- Oscillograph. J. T. Dempster. No. 919,137; Apr. 20; Sp. p. 4499; Gaz. vol. 141; p. 786.
- Oscillograph. L. T. Robinson. No. 919,467; Apr. 27; Sp. p. 5398; Gaz. vol. 141; p. 931.
- Ossein, Treatment of. E. A. A. Vallée and A. Helbronner. No. 914,996; Mar. 9; Sp. p. 2759; Gaz. vol. 140; p. 466.
- Osteopathic table. W. M. Marselles. No. 912,588; Feb. 16; Sp. p. 3238; Gaz. vol. 139; p. 580.
- Osteopathic table. J. V. McManis, J. R. Reed, and R. E. Bounds. No. 921,559; May 11; Sp. p. 3000; Gaz. vol. 142; p. 515.
- Outlet-box. G. Pullets. No. 915,381; Mar. 16; Sp. p. 3560; Gaz. vol. 140; p. 620.
- Outlet-box. J. N. Seism. No. 920,401; May 4; Sp. p. 631; Gaz. vol. 142; p. 101.
- Outlet-box. T. J. Fagen and S. C. Thomason. No. 934,298; Sept. 14; Sp. p. 2688; Gaz. vol. 146; p. 447.
- Outlet-box. L. H. Church. No. 934,995; Sept. 28; Sp. p. 4072; Gaz. vol. 146; p. 730.
- Outlet-box. J. T. Meleady. No. 938,682; Nov. 2; Sp. p. 525; Gaz. vol. 148; p. 80.
- Outlet-box construction. E. W. Stull. No. 931,521; Aug. 17; Sp. p. 3990; Gaz. vol. 145; p. 688.
- Outlet-box or electric conduits. W. A. Bonnell. No. 921,584; May 11; Sp. p. 3040; Gaz. vol. 142; p. 522.
- Outlet or junction box. G. A. Lutz. No. 916,743; Mar. 30; Sp. p. 6243; Gaz. vol. 140; p. 1117.
- Outlet or junction box. G. A. Lutz. No. 917,328; Apr. 6; Sp. p. 765; Gaz. vol. 141; p. 130.
- Outlet or junction box. G. A. Lutz and C. C. Sibley. No. 929,097; July 27; Sp. p. 4948; Gaz. vol. 144; p. 882.
- Outlet or junction box. C. T. Pratt. No. 936,809; Oct. 12; Sp. p. 2523; Gaz. vol. 147; p. 421.
- Oven. E. Woollett. No. 910,255; Jan. 19; Sp. p. 3721; Gaz. vol. 138; p. 672.
- Oven, Bake. J. Faulds. No. 910,465; Jan. 19; Sp. p. 4155; Gaz. vol. 138; p. 745.
- Oven, Bake. P. Ahlheim. No. 911,799; Feb. 9; Sp. p. 1517; Gaz. vol. 139; p. 283.
- Oven, Bake. B. A. Geurink. No. 939,410; Nov. 9; Sp. p. 2154; Gaz. vol. 148; p. 357.
- Oven, Bake. J. I. Marshall and J. Faulds. No. 944,804; Dec. 28; Sp. p. 5987; Gaz. vol. 149; p. 1031.
- Oven, Baker's. J. Middleby. No. 914,153; Mar. 2; Sp. p. 1056; Gaz. vol. 140; p. 168.
- Oven, Baker's. H. Hueg. No. 917,299; Apr. 6; Sp. p. 704; Gaz. vol. 141; p. 119.
- Oven, Baker's. F. C. Busche. No. 927,108; July 6; Sp. p. 863; Gaz. vol. 144; p. 138.
- Oven, Baker's. W. Schoenhaar. No. 940,559; Nov. 16; Sp. p. 4699; Gaz. vol. 148; p. 782.
- Oven, Baker's. W. D. De Vaughn. No. 943,395; Dec. 14; Sp. p. 2923; Gaz. vol. 149; p. 492.
- Oven, Baking-. E. Schmidt. No. 917,160; Apr. 6; Sp. p. 409; Gaz. vol. 141; p. 71.
- Oven-bottom. K. Webb. No. 921,762; May 18; Sp. p. 3438; Gaz. vol. 142; p. 612.
- Oven-bottom, Portable rotary. J. C. Cake. No. 920,109; May 4; Sp. p. 18; Gaz. vol. 142; p. 4.
- Oven, Camp-. W. H. Hart. (Reissue.) No. 12,961; May 25; Sp. p. 6283; Gaz. vol. 142; p. 1086.
- Oven, Coke-. J. F. Donaghy. No. 914,932; Mar. 9; Sp. p. 2660; Gaz. vol. 140; p. 446.
- Oven, Coke-. W. B. Smith, Sr. No. 915,630; Mar. 16; Sp. p. 4073; Gaz. vol. 140; p. 704.
- Oven, Coke-. J. Armstrong. No. 917,744; Apr. 13; Sp. p. 1543; Gaz. vol. 141; p. 293.
- Oven, Collapsible. W. E. Sloan. No. 913,570; Feb. 23; Sp. p. 5274; Gaz. vol. 139; p. 934.

*Alphabetical list of inventions—Continued.*

- Oven, Continuous. C. A. Gornadt. No. 926,404; June 29; Sp. p. 6927; Gaz. vol. 143; p. 1220.
- Oven, Continuous baking-. S. Jacobson. No. 937,000; Oct. 12; Sp. p. 2896; Gaz. vol. 147; p. 483.
- Oven continuous heat-interchanging arrangement, Coke-. E. Solvay. No. 914,625; Mar. 9; Sp. p. 1836; Gaz. vol. 140; p. 313.
- Oven, Core-. G. H. Wadsworth. No. 916,069; Mar. 23; Sp. p. 4936; Gaz. vol. 140; p. 875.
- Oven-door. F. Uhtbrock. No. 919,654; Apr. 27; Sp. p. 5782; Gaz. vol. 141; p. 994.
- Oven-door. E. H. Huenefeld. No. 943,546; Dec. 14; Sp. p. 3241; Gaz. vol. 149; p. 546.
- Oven-door. E. H. Huenefeld. No. 943,547; Dec. 14; Sp. p. 3243; Gaz. vol. 149; p. 546.
- Oven-door. E. H. Huenefeld. No. 943,548; Dec. 14; Sp. p. 3244; Gaz. vol. 149; p. 546.
- Oven-door. E. H. Huenefeld. No. 943,549; Dec. 14; Sp. p. 3245; Gaz. vol. 149; p. 547.
- Oven door, Bake-. J. M. Hoepfl. No. 941,780; Nov. 30; Sp. p. 7333; Gaz. vol. 148; p. 1236.
- Oven-door holder or catch. O. P. Moon. No. 925,936; June 22; Sp. p. 5971; Gaz. vol. 143; p. 1031.
- Oven, Drying and baking. J. Wyman. No. 914,099; Mar. 2; Sp. p. 956; Gaz. vol. 140; p. 150.
- Oven, Electric. T. Van Aller. No. 917,195; Apr. 6; Sp. p. 479; Gaz. vol. 141; p. 84.
- Oven, Gas-range. W. J. Best. No. 942,128; Dec. 7; Sp. p. 216; Gaz. vol. 149; p. 33.
- Oven-heat regulator. G. A. Stewart. No. 931,232; Aug. 17; Sp. p. 3408; Gaz. vol. 145; p. 591.
- Oven, Horizontal coke-. F. J. Collin. No. 915,660; Mar. 16; Sp. p. 4152; Gaz. vol. 140; p. 716.
- Oven-operating mechanism, Rotary-. B. F. Fish. No. 924,753; June 15; Sp. p. 3567; Gaz. vol. 143; p. 612.
- Oven or furnace door, Coke. J. Whitaker. No. 912,218; Feb. 9; Sp. p. 2414; Gaz. vol. 139; p. 417.
- Oven-rack, Auxiliary. F. A. Puffer. No. 917,131; Apr. 6; Sp. p. 356; Gaz. vol. 141; p. 62.
- Oven, Reel-. C. G. Tucker. No. 915,810; Mar. 23; Sp. p. 4446; Gaz. vol. 140; p. 790.
- Oven screen and mat. A. McNulty. No. 913,148; Feb. 23; Sp. p. 4383; Gaz. vol. 139; p. 792.
- Oven-thermometer. A. E. Whittier. No. 917,391; Apr. 6; Sp. p. 876; Gaz. vol. 141; p. 151.
- Ovens and other purposes, Rack for. J. A. Mathewson. No. 934,557; Sept. 21; Sp. p. 3188; Gaz. vol. 146; p. 556.
- Ovens, Means for heating bakers'. F. Trachsler. No. 919,400; Apr. 27; Sp. p. 5235; Gaz. vol. 141; p. 907.
- Overalls. S. A. Melasky. No. 914,296; Mar. 2; Sp. p. 1364; Gaz. vol. 140; p. 212.
- Overalls. J. Stecker. No. 924,013; June 8; Sp. p. 2009; Gaz. vol. 143; p. 333.
- Overalls. W. F. Harbour and G. A. Kellogg. No. 925,177; June 15; Sp. p. 4428; Gaz. vol. 143; p. 756.
- Overcoat. J. Burstein. No. 912,229; Feb. 9; Sp. p. 2433; Gaz. vol. 139; p. 420.
- Overcoat. W. Martin. No. 918,878; Apr. 20; Sp. p. 3995; Gaz. vol. 141; p. 702.
- Overflow-alarm. J. A. A. Heydegger. No. 915,348; Mar. 16; Sp. p. 3485; Gaz. vol. 140; p. 608.
- Overgaiter. C. H. Olander. No. 909,929; Jan. 19; Sp. p. 3027; Gaz. vol. 138; p. 561.
- Overhead washer. I. J. Smith. No. 919,970; Apr. 27; Sp. p. 6432; Gaz. vol. 141; p. 1099.
- Overseaming-machine and looper mechanism therefor. L. Onderdonk. No. 920,170; May 4; Sp. p. 149; Gaz. vol. 142; p. 23.
- Overshoe. E. P. Rickert. No. 921,461; May 11; Sp. p. 2811; Gaz. vol. 142; p. 483.
- Overshoe-fastening device. S. Thorsch. No. 916,061; Mar. 23; Sp. p. 4921; Gaz. vol. 140; p. 872.
- Overshoe-holder. H. G. F. Wessels and C. B. Ingraham. No. 943,582; Dec. 14; Sp. p. 3306; Gaz. vol. 149; p. 557.
- Oxide of iron and zinc sulfate, Preparing red. G. Evans. No. 914,649; Mar. 9; Sp. p. 2074; Gaz. vol. 140; p. 353.
- Oxids and the like, Reducing and melting. O. Frick. No. 932,459; Aug. 31; Sp. p. 5971; Gaz. vol. 145; p. 1040.
- Oxids of nitrogen, Absorbing. B. F. Halvorsen. No. 910,530; Jan. 26; Sp. p. 4298; Gaz. vol. 138; p. 789.
- Oxids of nitrogen by means of a rotary flame, Process and apparatus for producing. I. Moscicki. No. 920,610; May 4; Sp. p. 1045; Gaz. vol. 142; p. 170.
- Oxids of nitrogen from the air, Production of. F. I. du Pont. No. 943,661; Dec. 21; Sp. p. 3535; Gaz. vol. 149; p. 615.
- Oxids, Producing. H. L. Doherty. No. 927,644; July 13; Sp. p. 1955; Gaz. vol. 144; p. 342.
- Oxids, Reduction of refractory. K. A. Kühne. No. 910,394; Jan. 19; Sp. p. 4010; Gaz. vol. 138; p. 720.
- Ozone, Apparatus for preparing. D. E. Parker. No. 909,017; Jan. 5; Sp. p. 1201; Gaz. vol. 138; p. 192.
- Oxygen and nitrogen compounds, Process of and apparatus for the production of. F. Haber and A. Koenig. No. 938,316; Oct. 26; Sp. p. 5695; Gaz. vol. 147; p. 970.
- Oxygen from air, Separating. G. M. A. Claude. No. 924,428; June 8; Sp. p. 2879; Gaz. vol. 143; p. 471.
- Oxygen-making apparatus. G. von Ach. No. 944,473; Dec. 28; Sp. p. 5240; Gaz. vol. 149; p. 917.
- Oxygen with other gases, Process and apparatus for burning. A. R. Bullock. No. 943,385; Dec. 14; Sp. p. 2907; Gaz. vol. 149; p. 489.
- Oyster-carrier. R. C. Bender. No. 918,264; Apr. 13; Sp. p. 2655; Gaz. vol. 141; p. 470.
- Oyster-opener. P. Lekam. No. 930,771; Aug. 10; Sp. p. 2361; Gaz. vol. 145; p. 409.
- Oyster-receptacle. R. C. Bender. No. 918,265; Apr. 13; Sp. p. 2656; Gaz. vol. 141; p. 471.
- Ozone, Apparatus for the production of. A. Vosmaer. No. 919,403; Apr. 27; Sp. p. 5239; Gaz. vol. 141; p. 908.
- Ozone, Generating and storing. F. M. Ashley. No. 942,046; Dec. 7; Sp. p. 2; Gaz. vol. 149; p. 3.
- Ozone-generating apparatus. W. Kölle. No. 909,309; Jan. 12; Sp. p. 1795; Gaz. vol. 138; p. 321.
- Ozone-generator. T. Friedlander. No. 927,519; July 13; Sp. p. 1684; Gaz. vol. 144; p. 300.
- Ozone-producer. S. M. Kintner. No. 920,965; May 11; Sp. p. 1778; Gaz. vol. 142; p. 316.
- Ozone, Producing. J. F. Place. No. 932,898; Aug. 31; Sp. p. 6899; Gaz. vol. 145; p. 1185.
- Ozonizer. A. Lohman. No. 919,445; Apr. 27; Sp. p. 5335; Gaz. vol. 141; p. 922.
- Ozonizer. E. W. Smith. No. 921,903; May 18; Sp. p. 3730; Gaz. vol. 142; p. 657.
- Package. T. D. Richardson. No. 924,275; June 8; Sp. p. 2580; Gaz. vol. 143; p. 420.
- Package. O. R. Tyson. No. 925,535; June 22; Sp. p. 5107; Gaz. vol. 143; p. 899.
- Package. R. W. Belson. No. 928,423; July 20; Sp. p. 3583; Gaz. vol. 144; p. 634.
- Package. B. F. G. Linnell. No. 933,189; Sept. 7; Sp. p. 340; Gaz. vol. 146; p. 54.
- Package-binder. M. H. Buffington. No. 908,741; Jan. 5; Sp. p. 666; Gaz. vol. 138; p. 103.
- Package-binder. A. W. Miller and L. L. Painter. No. 913,030; Feb. 23; Sp. p. 4139; Gaz. vol. 139; p. 752.
- Package-binding clip. C. D. Kreps. No. 916,723; Mar. 30; Sp. p. 6210; Gaz. vol. 140; p. 1112.
- Package-box, Collapsible. M. Orzall. No. 928,689; July 20; Sp. p. 4135; Gaz. vol. 144; p. 720.
- Package-carrier car. L. B. Bethards. No. 927,213; July 6; Sp. p. 1062; Gaz. vol. 144; p. 172.
- Package-clasp. T. Smith. No. 914,761; Mar. 9; Sp. p. 2335; Gaz. vol. 140; p. 392.
- Package, Commercial. E. V. Peirson. No. 917,124; Apr. 6; Sp. p. 340; Gaz. vol. 141; p. 60.
- Package cover or receptacle. A. S. C. Sneath. No. 928,159; July 13; Sp. p. 2995; Gaz. vol. 144; p. 512.
- Package elastic grip-band. W. Liddy. No. 913,962; Mar. 2; Sp. p. 641; Gaz. vol. 140; p. 101.
- Package-fastener. W. M. Cleaveland. No. 913,469; Feb. 23; Sp. p. 5036; Gaz. vol. 139; p. 900.
- Package-fastener. H. T. Andrew. No. 919,674; Apr. 27; Sp. p. 5833; Gaz. vol. 141; p. 1001.
- Package-fastener. A. E. Boulton. No. 935,889; Oct. 5; Sp. p. 622; Gaz. vol. 147; p. 90.
- Package-fastening member. W. M. Conrad. No. 931,569; Aug. 17; Sp. p. 4077; Gaz. vol. 145; p. 702.
- Package-filling machine. W. H. Doble. No. 923,779; June 1; Sp. p. 1501; Gaz. vol. 143; p. 227.
- Package for frangible articles. C. F. Jenkins. No. 944,616; Dec. 28; Sp. p. 5584; Gaz. vol. 149; p. 969.
- Package for pulverulent materials. C. L. Paar. No. 920,637; May 4; Sp. p. 1100; Gaz. vol. 142; p. 178.
- Package-handle. E. F. Hulbert. No. 926,986; July 6; Sp. p. 574; Gaz. vol. 144; p. 94.
- Package-holder. F. M. Southwick. No. 922,054; May 18; Sp. p. 4041; Gaz. vol. 142; p. 706.
- Package, Metal. J. H. La Fave. No. 940,168; Nov. 16; Sp. p. 3820; Gaz. vol. 148; p. 649.
- Package, Powder-. W. Chubbuck. No. 929,553; July 27; Sp. p. 5880; Gaz. vol. 144; p. 1033.
- Package, Rolled. G. J. Fallesen. No. 932,456; Aug. 31; Sp. p. 5959; Gaz. vol. 145; p. 1039.
- Package, Sheet-metal. A. R. McArthur. No. 932,049; Aug. 24; Sp. p. 5171; Gaz. vol. 145; p. 882.
- Package, Shipping-. J. G. Reber. No. 919,768; Apr. 27; Sp. p. 6000; Gaz. vol. 141; p. 1031.
- Package-tie. V. N. Stone. No. 912,202; Feb. 9; Sp. p. 2391; Gaz. vol. 139; p. 412.
- Package-tie. H. Barry. No. 912,782; Feb. 16; Sp. p. 3688; Gaz. vol. 139; p. 648.
- Package-tie. L. A. Strom. No. 914,614; Mar. 9; Sp. p. 2017; Gaz. vol. 140; p. 343.
- Package-tie. G. T. Chandler. No. 916,671; Mar. 30; Sp. p. 6123; Gaz. vol. 140; p. 1097.
- Package-tie. W. W. Fowler. No. 923,639; June 1; Sp. p. 1173; Gaz. vol. 143; p. 180.
- Package-tie. D. Comfort. No. 924,146; June 8; Sp. p. 2274; Gaz. vol. 143; p. 376.
- Package-tie. J. Bennor. No. 924,594; June 8; Sp. p. 3211; Gaz. vol. 143; p. 525.
- Package-tie. J. W. Johnson. No. 929,952; Aug. 3; Sp. p. 704; Gaz. vol. 145; p. 112.
- Package-tie. E. W. Milhado. No. 931,631; Aug. 17; Sp. p. 4199; Gaz. vol. 145; p. 720.
- Package-tie. H. J. Lee and E. F. Gray. No. 939,040; Nov. 2; Sp. p. 1272; Gaz. vol. 148; p. 204.
- Package-tie. G. L. Hindman. No. 941,991; Nov. 30; Sp. p. 7760; Gaz. vol. 148; p. 1307.
- Package tie or holder. H. T. Small. No. 916,208; Mar. 23; Sp. p. 5189; Gaz. vol. 140; p. 919.
- Package-wiring machine. S. Wheeler. No. 921,193; May 11; Sp. p. 2245; Gaz. vol. 142; p. 395.
- Packages, Information and identification means for returnable. P. N. Faller. No. 937,059; Oct. 19; Sp. p. 3031; Gaz. vol. 147; p. 532.



*Alphabetical list of inventions—Continued.*

- Packaging and bag-forming machine, Combined, J., C. H., and A. Day. No. 919,427; Apr. 27; Sp. p. 5298; Gaz. vol. 141; p. 916.
- Packaging-machine. M. L. Keyes. No. 921,256; May 11; Sp. p. 2373; Gaz. vol. 142; p. 416.
- Packaging-machine. A. E. Bimmerle. No. 929,541; July 27; Sp. p. 5855; Gaz. vol. 144; p. 1029.
- Packaging-machine. B. W. Tucker. No. 939,553; Nov. 9; Sp. p. 1996; Gaz. vol. 148; p. 339.
- Packaging-machines, Carton-marking attachment for. W. H. Doble. No. 927,225; July 6; Sp. p. 1082; Gaz. vol. 144; p. 176.
- Packaging materials, Machine for. J. H. Howard. No. 933,839; Sept. 14; Sp. p. 1789; Gaz. vol. 146; p. 296.
- Packer, Bottom-hole. C. M. Heeter. No. 909,593; Jan. 12; Sp. p. 2339; Gaz. vol. 138; p. 415.
- Packing. S. E. Condon. No. 911,508; Feb. 9; Sp. p. 1538; Gaz. vol. 139; p. 286.
- Packing. S. M. Jones. No. 914,422; Mar. 9; Sp. p. 1634; Gaz. vol. 140; p. 279.
- Packing. N. B. Miller. No. 917,637; Apr. 6; Sp. p. 1313; Gaz. vol. 141; p. 231.
- Packing. F. Goetze. No. 922,130; May 18; Sp. p. 4180; Gaz. vol. 142; p. 731.
- Packing. C. C. Puffer. No. 923,890; June 8; Sp. p. 1766; Gaz. vol. 143; p. 294.
- Packing. N. B. Miller. No. 925,368; June 15; Sp. p. 4774; Gaz. vol. 143; p. 815.
- Packing. S. P. Morrison. No. 926,676; June 29; Sp. p. 7429; Gaz. vol. 143; p. 1311.
- Packing. D. S. Paterson. No. 936,658; Oct. 12; Sp. p. 2237; Gaz. vol. 147; p. 371.
- Packing and display case. F. S. Ferry. No. 940,451; Nov. 16; Sp. p. 4470; Gaz. vol. 148; p. 747.
- Packing and display receptacle. W. E. Collins. No. 939,807; Nov. 9; Sp. p. 3002; Gaz. vol. 148; p. 494.
- Packing and making same. T. Murphy. No. 928,875; July 20; Sp. p. 4493; Gaz. vol. 144; p. 783.
- Packing and making the same. C. I. E. Mastin and E. L. Perry. No. 943,692; Dec. 21; Sp. p. 3583; Gaz. vol. 149; p. 624.
- Packing and upholstery machine. W. F. Wyman. No. 934,782; Sept. 21; Sp. p. 3626; Gaz. vol. 146; p. 632.
- Packing-box. M. H. Longfellow. No. 909,628; Jan. 12; Sp. p. 2415; Gaz. vol. 138; p. 427.
- Packing-box. G. T. Riddle. No. 915,113; Mar. 16; Sp. p. 3019; Gaz. vol. 140; p. 533.
- Packing-box. J. Kelley. No. 917,453; Apr. 6; Sp. p. 984; Gaz. vol. 141; p. 171.
- Packing-box. G. Cerf. No. 923,017; May 25; Sp. p. 6015; Gaz. vol. 142; p. 1048.
- Packing-box. L. P. Rexford. No. 925,382; June 15; Sp. p. 4797; Gaz. vol. 143; p. 820.
- Packing-box. C. C. Mengel. No. 933,846; Sept. 14; Sp. p. 1808; Gaz. vol. 146; p. 298.
- Packing-box, Collapsible. M. T. Lynch, Jr. No. 915,455; Mar. 16; Sp. p. 3707; Gaz. vol. 140; p. 644.
- Packing box or case. D. J. Cable. No. 933,287; Sept. 7; Sp. p. 586; Gaz. vol. 146; p. 90.
- Packing-box tie. E. P. Lehmann. (Reissue.) No. 12,941; Apr. 13; Sp. p. 3113; Gaz. vol. 141; p. 546.
- Packing-case. N. A. Smith. No. 915,802; Mar. 23; Sp. p. 4435; Gaz. vol. 140; p. 787.
- Packing-case. W. C. Hine. No. 917,066; Apr. 6; Sp. p. 207; Gaz. vol. 141; p. 39.
- Packing-case. A. T. Kruse. No. 929,604; July 27; Sp. p. 5996; Gaz. vol. 144; p. 1050.
- Packing-case. C. M. Chapman and J. E. Woodbridge. No. 935,961; Oct. 5; Sp. p. 768; Gaz. vol. 147; p. 114.
- Packing-case. A. T. Kruse. No. 942,966; Dec. 14; Sp. p. 2008; Gaz. vol. 149; p. 348.
- Packing-case and tag, Combined. H. M. Willis. No. 929,068; July 27; Sp. p. 4893; Gaz. vol. 144; p. 873.
- Packing-casing. C. L. Cook. No. 925,460; June 22; Sp. p. 4963; Gaz. vol. 143; p. 876.
- Packing, Cinch-. R. R. Keith. No. 931,128; Aug. 17; Sp. p. 3164; Gaz. vol. 145; p. 554.
- Packing compound. J. Klotzbuecher. No. 916,719; Mar. 30; Sp. p. 6202; Gaz. vol. 140; p. 1111.
- Packing device, Confectionery-. A. Holzweissig. No. 915,767; Mar. 23; Sp. p. 4379; Gaz. vol. 140; p. 778.
- Packing device for pistons, piston-valves and the like. J. Jones and J. Rigg. No. 924,789; June 15; Sp. p. 3650; Gaz. vol. 143; p. 625.
- Packing-extracting bit. H. H. Bales. No. 931,718; Aug. 24; Sp. p. 4437; Gaz. vol. 145; p. 773.
- Packing, Fibrous lubricating-. S. A. Flower. No. 911,121; Feb. 2; Sp. p. 189; Gaz. vol. 139; p. 35.
- Packing, Fluid-pressure. C. A. Parsons and J. Turnbull. No. 909,324; Jan. 12; Sp. p. 1822; Gaz. vol. 138; p. 327.
- Packing for ammonia-machines and the like, Metallic. G. D. Rollins. No. 934,629; Sept. 21; Sp. p. 3343; Gaz. vol. 146; p. 582.
- Packing for elastic-fluid turbines, Shaft-. K. Ahlquist. No. 922,551; May 25; Sp. p. 5052; Gaz. vol. 142; p. 897.
- Packing for light-sensitive layer-carriers. J. Schmuck. No. 930,621; Aug. 10; Sp. p. 2056; Gaz. vol. 145; p. 360.
- Packing for piston-rods and the like. G. Huhn. No. 943,019; Dec. 14; Sp. p. 2137; Gaz. vol. 149; p. 366.
- Packing for steam and other joints, Fluid-pressure. J. F. Hendrickson. No. 926,414; June 29; Sp. p. 6948; Gaz. vol. 143; p. 1224.
- Packing for stuffing-boxes. O. R. Weese. No. 917,690; Apr. 6; Sp. p. 1410; Gaz. vol. 141; p. 249.
- Packing for stuffing-boxes. F. D. Bartlett. No. 926,841; July 6; Sp. p. 280; Gaz. vol. 144; p. 45.
- Packing for stuffing-boxes. G. Strance, R. S. Bull, and W. P. Norris. No. 943,169; Dec. 14; Sp. p. 2451; Gaz. vol. 149; p. 416.
- Packing for stuffing-boxes, Metallic. R. Allen. No. 943,642; Dec. 21; Sp. p. 3494; Gaz. vol. 149; p. 609.
- Packing for surface-condenser tubes. W. Quint. No. 937,547; Oct. 19; Sp. p. 4089; Gaz. vol. 147; p. 695.
- Packing, Hydraulic. F. Hymans. No. 938,870; Nov. 2; Sp. p. 915; Gaz. vol. 148; p. 144.
- Packing, Joint-. W. J. Knox. No. 911,822; Feb. 9; Sp. p. 1565; Gaz. vol. 139; p. 291.
- Packing journals of railway-cars, Composition of matter to be used in. W. M. Simmons. No. 923,304; June 1; Sp. p. 451; Gaz. vol. 143; p. 64.
- Packing, Lubricating-. J. B. Stearns. No. 915,804; Mar. 23; Sp. p. 4438; Gaz. vol. 140; p. 788.
- Packing, Lubricating-. M. L. Stewart and F. A. Carr. No. 923,908; June 8; Sp. p. 1803; Gaz. vol. 143; p. 300.
- Packing-machine. T. R. Weyant. No. 932,732; Aug. 31; Sp. p. 6573; Gaz. vol. 145; p. 1132.
- Packing-machine. J. Merritt. No. 936,792; Oct. 12; Sp. p. 2491; Gaz. vol. 147; p. 416.
- Packing-machine. J. Fassino. No. 941,444; Nov. 30; Sp. p. 6626; Gaz. vol. 148; p. 1123.
- Packing material. L. H. Baekeland. No. 941,605; Nov. 30; Sp. p. 6944; Gaz. vol. 148; p. 1175.
- Packing, Metallic. M. F. Fulford. No. 911,228; Feb. 2; Sp. p. 408; Gaz. vol. 139; p. 71.
- Packing, Metallic. C. L. Cook. No. 925,459; June 22; Sp. p. 4962; Gaz. vol. 143; p. 876.
- Packing, Metallic. J. M. Rhodes. No. 930,230; Aug. 3; Sp. p. 1250; Gaz. vol. 145; p. 206.
- Packing, Metallic. G. Huhn. (Reissue.) No. 13,006; Aug. 10; Sp. p. 2926; Gaz. vol. 145; p. 492.
- Packing, Metallic ring-. J. Steger. No. 922,635; May 25; Sp. p. 5230; Gaz. vol. 142; p. 925.
- Packing, Metallic rod-. J. Bader. No. 920,006; Apr. 27; Sp. p. 6503; Gaz. vol. 141; p. 1110.
- Packing, Metallic rod-. G. B. Maltby. No. 943,835; Dec. 21; Sp. p. 3878; Gaz. vol. 149; p. 674.
- Packing, Metallic stuffing-box. R. Bömcke. No. 909,983; Jan. 19; Sp. p. 3128; Gaz. vol. 138; p. 579.
- Packing, Moisture-proof. R. V. Collins. No. 908,647; Jan. 5; Sp. p. 470; Gaz. vol. 138; p. 74.
- Packing or shipping box. J. T. Ferres. No. 915,579; Mar. 16; Sp. p. 3966; Gaz. vol. 140; p. 685.
- Packing or shipping box. J. T. Ferres. No. 916,544; Mar. 30; Sp. p. 5885; Gaz. vol. 140; p. 1056.
- Packing or shipping receptacle. J. Shellenberger. No. 923,588; June 1; Sp. p. 1070; Gaz. vol. 143; p. 163.
- Packing-pad. E. W. Goodrick. No. 915,094; Mar. 16; Sp. p. 2970; Gaz. vol. 140; p. 526.
- Packing-pad. A. D. Alexander. No. 942,191; Dec. 7; Sp. p. 355; Gaz. vol. 149; p. 54.
- Packing, Piston-. G. R. Thompson. No. 927,190; July 6; Sp. p. 1016; Gaz. vol. 144; p. 165.
- Packing, Piston-. H. A. Young. No. 934,125; Sept. 14; Sp. p. 2370; Gaz. vol. 146; p. 388.
- Packing, Piston-. J. J. Hampson. No. 936,717; Oct. 12; Sp. p. 2351; Gaz. vol. 147; p. 390.
- Packing, Piston-rod. H. P. Rhodes. No. 934,627; Sept. 21; Sp. p. 3340; Gaz. vol. 146; p. 581.
- Packing, Piston-rod. A. J. West. No. 941,394; Nov. 30; Sp. p. 6515; Gaz. vol. 148; p. 1107.
- Packing, Pneumatic. E. S. Johnson. No. 943,023; Dec. 14; Sp. p. 2145; Gaz. vol. 149; p. 367.
- Packing reciprocating pistons and the like, Means for. S. Robinson. No. 940,068; Nov. 16; Sp. p. 3593; Gaz. vol. 148; p. 614.
- Packing-ring. C. R. Maples. No. 939,047; Nov. 2; Sp. p. 1283; Gaz. vol. 148; p. 206.
- Packing-ring. K. Rosholt. No. 943,790; Dec. 21; Sp. p. 3783; Gaz. vol. 149; p. 658.
- Packing-ring expander. W. H. Richardson. No. 912,031; Feb. 9; Sp. p. 2061; Gaz. vol. 139; p. 359.
- Packing ring, Metallic rod-. C. W. G. King. No. 914,426; Mar. 9; Sp. p. 1640; Gaz. vol. 140; p. 280.
- Packing ring, Piston-. E. W. Petter. No. 929,484; July 27; Sp. p. 5756; Gaz. vol. 144; p. 1010.
- Packing ring, Piston-. T. H. Renaud. No. 941,536; Nov. 30; Sp. p. 6812; Gaz. vol. 148; p. 1153.
- Packing rings, Making piston-. W. Geiser. No. 938,420; Oct. 26; Sp. p. 5936; Gaz. vol. 147; p. 1006.
- Packing, Rod-. E. A. Mencer. No. 927,156; July 6; Sp. p. 945; Gaz. vol. 144; p. 153.
- Packing, Rod steam-. O. D. H. Bentley. No. 935,955; Oct. 5; Sp. p. 757; Gaz. vol. 147; p. 112.
- Packing, Shaft-. B. Ljungström. No. 913,407; Feb. 23; Sp. p. 4903; Gaz. vol. 139; p. 879.
- Packing, Shaft-. W. L. R. Emmet. No. 924,897; June 15; Sp. p. 3873; Gaz. vol. 143; p. 660.
- Packing, Sheet-. V. Tompkins. No. 920,502; May 4; Sp. p. 820; Gaz. vol. 142; p. 133.
- Packing, Steam-. O. D. H. Bentley. No. 937,916; Oct. 26; Sp. p. 4828; Gaz. vol. 147; p. 834.
- Packing vessel. H. W. Avery. No. 926,230; June 29; Sp. p. 6608; Gaz. vol. 143; p. 1166.
- Packings, Lap-joint for. J. T. Wilson. No. 942,024; Nov. 30; Sp. p. 7823; Gaz. vol. 148; p. 1318.
- Pad: See Bed-pad; Bust-pad; Calendar-pad; Coat-pad; Collar-pad; Finger-pad; Hair-frame pad; Harness pneumatic pad; Heel-pad; Hoof-pad; Horseshoe-pad; Horseshoe-hoof-pad; Manifolding pad; Miner's knee-pad; Packing-pad; Recoil-pad; Saddle-pad; Sharp pad; Shock-absorbing pad; Sole-pressing pad; Spectacle contact-pad; Stamp-pad; Truss-pad; Waxing-pad; Waxing and scouring pad.

*Alphabetical list of inventions—Continued.*

- Pad composition, Copying-. R. O. E. Davis. No. 908,967; Jan. 5; Sp. p. 1088; Gaz. vol. 138; p. 176.
- Paddle-wheel, Feathering. J. Rourke. No. 936,478; Oct. 12; Sp. p. 1857; Gaz. vol. 147; p. 808.
- Paddle-wheel, Submerged feathering. L. Vojáček. No. 913,787; Mar. 2; Sp. p. 236; Gaz. vol. 140; p. 40.
- Paddle-wheel, Submerged vertical. L. Vojáček. No. 923,737; June 1; Sp. p. 1363; Gaz. vol. 143; p. 213.
- Paddy-separator. F. Streckel. No. 932,594; Aug. 31; Sp. p. 6273; Gaz. vol. 145; p. 1085.
- Padlock. F. Soley. No. 910,967; Jan. 26; Sp. p. 5161; Gaz. vol. 138; p. 930.
- Padlock. E. B. Stone. No. 917,810; Apr. 13; Sp. p. 1711; Gaz. vol. 141; p. 315.
- Padlock. H. R. Towne. No. 920,691; May 4; Sp. p. 1219; Gaz. vol. 142; p. 197.
- Padlock. H. R. Towne. No. 920,692; May 4; Sp. p. 1220; Gaz. vol. 142; p. 197.
- Padlock. C. E. Johnson. No. 928,201; July 13; Sp. p. 3099; Gaz. vol. 144; p. 527.
- Padlock. J. J. Murphy. No. 928,634; July 20; Sp. p. 4128; Gaz. vol. 144; p. 718.
- Padlock. F. Soley. No. 932,343; Aug. 24; Sp. p. 5739; Gaz. vol. 145; p. 979.
- Padlock. L. A. E. C. Byrne. No. 936,863; Oct. 12; Sp. p. 2629; Gaz. vol. 147; p. 438.
- Padlock. I. M. Bremer. No. 943,379; Dec. 14; Sp. p. 2895; Gaz. vol. 149; p. 487.
- Padlock. C. A. Lutz. No. 944,888; Dec. 28; Sp. p. 6161; Gaz. vol. 149; p. 1060.
- Padlock, Combination-. D. L. Campbell. No. 941,128; Nov. 23; Sp. p. 5924; Gaz. vol. 148; p. 997.
- Padlock, Keyless. O. J. Blakesley. No. 919,415; Apr. 27; Sp. p. 5269; Gaz. vol. 141; p. 912.
- Padlock, Permutation-. J. T. Whalen. No. 923,744; June 1; Sp. p. 1378; Gaz. vol. 143; p. 215.
- Padlock, Permutation-. J. T. Whalen. No. 940,762; Nov. 23; Sp. p. 5144; Gaz. vol. 148; p. 875.
- Padlock, Permutation-. J. T. Whalen. No. 940,763; Nov. 23; Sp. p. 5146; Gaz. vol. 148; p. 876.
- Pail. A. Cleveland. No. 925,457; June 22; Sp. p. 4959; Gaz. vol. 143; p. 875.
- Pail. H. E. Kerr. No. 931,315; Aug. 17; Sp. p. 3596; Gaz. vol. 145; p. 620.
- Pail, Dinner-. A. Kolsky. No. 915,715; Mar. 16; Sp. p. 4252; Gaz. vol. 140; p. 733.
- Pail, Dinner-. A. M. Hunt. No. 929,949; Aug. 3; Sp. p. 693; Gaz. vol. 145; p. 111.
- Pail, Dinner-. H. W. Ryding. No. 935,692; Oct. 5; Sp. p. 148; Gaz. vol. 147; p. 24.
- Pail, Dinner-. E. M. and G. L. Adams. No. 940,571; Nov. 16; Sp. p. 4727; Gaz. vol. 148; p. 787.
- Pail, Dinner-. W. A. Edwards. No. 941,915; Nov. 30; Sp. p. 7621; Gaz. vol. 148; p. 1283.
- Pail fastening and sealing device. C. C. Batchelor. No. 922,557; May 25; Sp. p. 5065; Gaz. vol. 142; p. 899.
- Pail holder, Milk-. T. N. Oium. No. 922,621; May 25; Sp. p. 5202; Gaz. vol. 142; p. 920.
- Pail holder, Milk-. G. A. Fitch and G. A. Chamberlin. No. 933,542; Sept. 7; Sp. p. 1197; Gaz. vol. 146; p. 174.
- Pail, Milk-. H. J. Behrens. No. 927,481; July 13; Sp. p. 1593; Gaz. vol. 144; p. 287.
- Pail, Milk-. E. C. Sargent. No. 934,761; Sept. 21; Sp. p. 3586; Gaz. vol. 146; p. 625.
- Pail, Milk-. A. Lawrence. No. 937,615; Oct. 19; Sp. p. 4207; Gaz. vol. 147; p. 717.
- Pail, Milk-. C. E. Shreve. No. 940,372; Nov. 16; Sp. p. 4286; Gaz. vol. 148; p. 720.
- Pail, Milk-. W. L. Brandon. No. 944,940; Dec. 28; Sp. p. 6259; Gaz. vol. 149; p. 1075.
- Pail, Milking-. F. H. Beach, Jr. No. 930,720; Aug. 10; Sp. p. 2253; Gaz. vol. 145; p. 392.
- Pail, Milking-. F. H. Beach, Jr. No. 930,721; Aug. 10; Sp. p. 2256; Gaz. vol. 145; p. 392.
- Pail or receptacle. C. Theurer. No. 918,222; Apr. 13; Sp. p. 2562; Gaz. vol. 141; p. 457.
- Pail stand, Foldable paste-. J. A. Jensen. No. 922,909; May 25; Sp. p. 5809; Gaz. vol. 142; p. 1013.
- Pail, Straining-. P. L. Sennott. No. 925,040; June 15; Sp. p. 4173; Gaz. vol. 143; p. 710.
- Pail-support. F. A. Wood. No. 930,824; Aug. 10; Sp. p. 2464; Gaz. vol. 145; p. 426.
- Pails, Bail-ear and cover-holder for. J. Dister. No. 922,104; May 18; Sp. p. 4139; Gaz. vol. 142; p. 723.
- Pails, Machine for applying ears to. W. Spain. No. 929,798; Aug. 3; Sp. p. 352; Gaz. vol. 145; p. 59.
- Paint. J. A. West. No. 936,203; Oct. 5; Sp. p. 1255; Gaz. vol. 147; p. 190.
- Paint and varnish remover. L. Ornstein. No. 931,335; Aug. 17; Sp. p. 3632; Gaz. vol. 145; p. 626.
- Paint-can. R. Henke, Jr. No. 933,444; Sept. 7; Sp. p. 919; Gaz. vol. 146; p. 141.
- Paint in barrels, Agitator for. W. L. Cooke. No. 927,952; July 13; Sp. p. 2621; Gaz. vol. 144; p. 445.
- Paint or color disperser with locking device for the valve-operating lever. H. Mikorey and C. Wagener. No. 928,682; July 20; Sp. p. 4126; Gaz. vol. 144; p. 718.
- Paint-pot. J. C. Rose. No. 916,023; Mar. 23; Sp. p. 4855; Gaz. vol. 140; p. 859.
- Paint, Steel-preservative. C. Ellis. No. 943,670; Dec. 21; Sp. p. 3547; Gaz. vol. 149; p. 617.
- Paint, varnish and finishes, Removing. J. M. Wilson. No. 936,842; Oct. 12; Sp. p. 2589; Gaz. vol. 147; p. 432.
- Paint, varnish, and lac, Composition for removing dried. R. G. Stewart. No. 931,519; Aug. 17; Sp. p. 3988; Gaz. vol. 145; p. 687.
- Paints, Manufacture of. R. S. Perry. No. 938,505; Nov. 2; Sp. p. 125; Gaz. vol. 148; p. 20.
- Painter's tool. G. D. Pushee. No. 926,894; July 6; Sp. p. 394; Gaz. vol. 144; p. 64.
- Painting apparatus. G. A. Price. No. 927,872; July 13; Sp. p. 2437; Gaz. vol. 144; p. 416.
- Painting-machine. H. E. Ford and F. E. Taylor. No. 928,374; July 20; Sp. p. 3496; Gaz. vol. 144; p. 618.
- Painting-machine, Wheel-. J. Heinz. No. 939,416; Nov. 9; Sp. p. 2163; Gaz. vol. 148; p. 359.
- Pallet-setting implement. G. W. Riebe. No. 940,278; Nov. 16; Sp. p. 4061; Gaz. vol. 148; p. 688.
- Pamphlet-coverer. G. Sague. No. 936,480; Oct. 12; Sp. p. 1864; Gaz. vol. 147; p. 309.
- Pan: See Ash-pan; Automobile dust-pan; Automobile under-pan; Bake-pan; Baking-pan; Bed-pan; Bed and douche pan; Bread-pan; Clothes-pan; Dish-pan; Drain-pan; Drip-pan; Dust-pan; Folded-corner pan; Fuel-pan; Furnace-pan; Grinding-pan; Ice-box dripping-pan; Locomotive ash-pan; Muffin-pan; Roasting-pan; Scale-pan; Vacuum-pan; Washpan.
- Pan attachment, Cooking-. F. L. Benedict. No. 937,574; Oct. 19; Sp. p. 4133; Gaz. vol. 147; p. 703.
- Pan cover, Frying-. L. I. Buehl. No. 934,991; Sept. 28; Sp. p. 4054; Gaz. vol. 146; p. 728.
- Pan handle, Dish-. C. F. Pfalzgraf. No. 933,487; Sept. 7; Sp. p. 1088; Gaz. vol. 146; p. 156.
- Pan-lifter. D. S. Gossett. No. 910,190; Jan. 19; Sp. p. 3551; Gaz. vol. 138; p. 646.
- Pan-lifter. M. Pasino. No. 916,189; Mar. 23; Sp. p. 5158; Gaz. vol. 140; p. 913.
- Pan-lifter. S. E. Ward. No. 923,389; June 1; Sp. p. 644; Gaz. vol. 143; p. 93.
- Pan-lifter. L. A. Bertram. No. 929,819; Aug. 3; Sp. p. 409; Gaz. vol. 145; p. 67.
- Pan-lifter. E. E. Edwards. No. 933,963; Sept. 14; Sp. p. 2039; Gaz. vol. 146; p. 336.
- Pan-lifter. H. Walker. No. 938,187; Oct. 26; Sp. p. 5428; Gaz. vol. 147; p. 926.
- Pan-lifter and lid-holder, Combination. A. R. Davis. No. 917,929; Apr. 13; Sp. p. 1956; Gaz. vol. 141; p. 355.
- Pan-rifle. J. M. White. No. 923,392; June 1; Sp. p. 649; Gaz. vol. 143; p. 94.
- Pans and other culinary vessels, Detachable handle for frying-. D. T. Abercrombie. No. 918,939; Apr. 20; Sp. p. 4136; Gaz. vol. 141; p. 723.
- Panel-board. H. S. Walker and H. L. Van Valkenburg. No. 925,154; June 29; Sp. p. 6427; Gaz. vol. 143; p. 1139.
- Panel-board. J. J. Wesley. No. 926,372; June 29; Sp. p. 6872; Gaz. vol. 143; p. 1209.
- Panel-board. A. E. Blackman. No. 938,635; Nov. 2; Sp. p. 426; Gaz. vol. 148; p. 65.
- Panel-board, Metering. A. C. McWilliams. No. 936,252; Oct. 5; Sp. p. 1340; Gaz. vol. 147; p. 206.
- Panel for wooden structures. O. C. Fenlason. No. 935,747; Oct. 5; Sp. p. 262; Gaz. vol. 147; p. 42.
- Panel, Inclosed. H. Krantz. No. 932,401; Aug. 24; Sp. p. 5842; Gaz. vol. 145; p. 997.
- Panic-bolt. H. G. Voight. No. 912,211; Feb. 9; Sp. p. 2403; Gaz. vol. 139; p. 414.
- Panic-bolt. H. G. Voight. No. 919,269; Apr. 20; Sp. p. 4938; Gaz. vol. 141; p. 828.
- Panic-bolt. H. G. Voight. No. 938,526; Nov. 2; Sp. p. 190; Gaz. vol. 148; p. 27.
- Panic-bolt for outside doors. H. G. Voight. No. 920,507; May 4; Sp. p. 838; Gaz. vol. 142; p. 135.
- Pantograph. H. A. Verbeck. No. 925,669; June 22; Sp. p. 5384; Gaz. vol. 143; p. 943.
- Pantographs, Electric control for. A. T. Ziegler. No. 938,936; Nov. 2; Sp. p. 1067; Gaz. vol. 148; p. 169.
- Pants-presser. J. B. Hanna. No. 921,107; May 11; Sp. p. 2070; Gaz. vol. 142; p. 364.
- Pants stretcher and presser, Combined. S. G. Austin. No. 927,630; July 13; Sp. p. 1930; Gaz. vol. 144; p. 338.
- Paper. M. B. Diskin. No. 914,394; Mar. 9; Sp. p. 1584; Gaz. vol. 140; p. 269.
- Paper. P. Hinkel. No. 940,969; Nov. 23; Sp. p. 5575; Gaz. vol. 148; p. 944.
- Paper and apparatus therefor, Manufacture of. C. Berti. No. 932,430; Aug. 31; Sp. p. 5914; Gaz. vol. 145; p. 1031.
- Paper and producing same, Foiled. G. F. Mansbridge. No. 920,970; May 11; Sp. p. 1789; Gaz. vol. 142; p. 317.
- Paper and the like, Process and machine for marbleizing. H. Metzger. No. 936,010; Oct. 5; Sp. p. 863; Gaz. vol. 147; p. 130.
- Paper and wood-pulp receptacle. J. W. McCleery. No. 925,938; June 22; Sp. p. 5974; Gaz. vol. 143; p. 1032.
- Paper, &c., Apparatus for cutting. P. G. E. Daniel and C. A. H. Bullock. No. 940,862; Nov. 23; Sp. p. 5359; Gaz. vol. 148; p. 908.
- Paper, Apparatus for protecting commercial. E. E. Angell. No. 936,398; Oct. 12; Sp. p. 1665; Gaz. vol. 147; p. 282.
- Paper bag. H. W. Stuart. No. 916,897; Mar. 30; Sp. p. 6532; Gaz. vol. 140; p. 1166.
- Paper bag. M. Vierengel. No. 936,588; Oct. 12; Sp. p. 2084; Gaz. vol. 147; p. 346.
- Paper bag. J. Soife. No. 943,126; Dec. 14; Sp. p. 2373; Gaz. vol. 149; p. 403.
- Paper-bag holder. H. M. Greener. No. 920,132; May 4; Sp. p. 87; Gaz. vol. 142; p. 12.
- Paper-bag holder. M. A. Macomber. No. 925,363; June 15; Sp. p. 4763; Gaz. vol. 143; p. 813.



*Alphabetical list of inventions—Continued.*

- Paper-bag holder. J. J. McGettigan. No. 930,681; Aug. 10; Sp. p. 2167; Gaz. vol. 145; p. 379.
- Paper-bag machine. E. E. Claussen. No. 925,295; June 15; Sp. p. 4640; Gaz. vol. 143; p. 793.
- Paper-bag machine. E. E. Claussen. No. 925,296; June 15; Sp. p. 4645; Gaz. vol. 143; p. 793.
- Paper-bag machine. J. Rogers. No. 928,885; July 20; Sp. p. 4515; Gaz. vol. 144; p. 787.
- Paper-bag machine. O. Hesser. No. 938,486; Nov. 2; Sp. p. 74; Gaz. vol. 148; p. 13.
- Paper-bag machine. E. E. Claussen. No. 940,515; Nov. 16; Sp. p. 4605; Gaz. vol. 148; p. 768.
- Paper-bag machine. W. Liddell. No. 943,428; Dec. 14; Sp. p. 2983; Gaz. vol. 149; p. 503.
- Paper-bag machine. W. C. Fuller. No. 943,534; Dec. 14; Sp. p. 3220; Gaz. vol. 149; p. 542.
- Paper-bag machines, Diamond-fold-forming mechanism for. C. D. King. No. 940,534; Nov. 16; Sp. p. 4635; Gaz. vol. 148; p. 773.
- Paper-bag-making machine. W. Fricker. No. 944,851; Dec. 28; Sp. p. 6091; Gaz. vol. 149; p. 1047.
- Paper-bag-making machines, Cutting mechanism for. E. F. Müller. No. 920,076; Apr. 27; Sp. p. 6667; Gaz. vol. 141; p. 1134.
- Paper-bag-making machinery. S. Duerden. No. 938,653; Nov. 2; Sp. p. 456; Gaz. vol. 148; p. 71.
- Paper-bag-manufacturing machine. P. L. Bartholomew. No. 918,815; Apr. 20; Sp. p. 3848; Gaz. vol. 141; p. 681.
- Paper-bag-manufacturing machine. P. L. Bartholomew. No. 929,273; July 27; Sp. p. 5325; Gaz. vol. 144; p. 941.
- Paper-bag-manufacturing machine. E. F. Müller. No. 940,183; Nov. 16; Sp. p. 3849; Gaz. vol. 148; p. 654.
- Paper bags and the like, Machine for manufacturing. B. J. Jensen. No. 926,422; June 29; Sp. p. 6966; Gaz. vol. 143; p. 1227.
- Paper bags, &c., Machine for making. A. Darvas. No. 931,041; Aug. 17; Sp. p. 2972; Gaz. vol. 145; p. 525.
- Paper, &c., bags, Machine for making conical. M. Mehle. No. 917,094; Apr. 6; Sp. p. 271; Gaz. vol. 141; p. 49.
- Paper bags, Machinery or apparatus for forming or making. J. W. H., C. H., and A. Day. No. 942,715; Dec. 7; Sp. p. 1409; Gaz. vol. 149; p. 231.
- Paper barrel-staves, Apparatus for making. J. T. Collins. No. 912,284; Feb. 16; Sp. p. 2592; Gaz. vol. 139; p. 478.
- Paper barrel-staves, Making. J. T. Collins. No. 912,285; Feb. 16; Sp. p. 2593; Gaz. vol. 139; p. 478.
- Paper-board-manufacturing apparatus, Multiply-. H. C. Herr. No. 913,007; Feb. 23; Sp. p. 4105; Gaz. vol. 139; p. 744.
- Paper bottle. R. Lundell. No. 942,083; Dec. 7; Sp. p. 112; Gaz. vol. 149; p. 18.
- Paper bottle and other container. H. S. Brewington. No. 937,141; Oct. 19; Sp. p. 3200; Gaz. vol. 147; p. 560.
- Paper bottle-closures, Making. C. F. Jenkins. No. 924,555; June 8; Sp. p. 3135; Gaz. vol. 143; p. 512.
- Paper-bottle-making machine. C. F. Jenkins. No. 933,460; Sept. 7; Sp. p. 970; Gaz. vol. 146; p. 146.
- Paper bottles, Die for making closures for. C. F. Jenkins. No. 935,791; Oct. 5; Sp. p. 397; Gaz. vol. 147; p. 58.
- Paper bottles, Making. G. L. Jenkins. No. 927,801; July 13; Sp. p. 2279; Gaz. vol. 144; p. 394.
- Paper bottles, Treating. C. F. Jenkins. No. 935,848; Oct. 5; Sp. p. 528; Gaz. vol. 147; p. 76.
- Paper box. H. Syner. No. 914,321; Mar. 2; Sp. p. 1420; Gaz. vol. 140; p. 219.
- Paper box. J. F. McCall. No. 916,181; Mar. 23; Sp. p. 5144; Gaz. vol. 140; p. 910.
- Paper box. T. L. Neumann. No. 917,347; Apr. 6; Sp. p. 801; Gaz. vol. 141; p. 137.
- Paper box. H. Zell. No. 921,197; May 11; Sp. p. 2252; Gaz. vol. 142; p. 396.
- Paper box. C. B. Davis. No. 940,634; Nov. 16; Sp. p. 4848; Gaz. vol. 148; p. 807.
- Paper box. C. S. Bird. No. 940,667; Nov. 23; Sp. p. 4930; Gaz. vol. 148; p. 843.
- Paper box. C. S. Bird. No. 940,781; Nov. 23; Sp. p. 5194; Gaz. vol. 148; p. 882.
- Paper box. C. S. Bird. No. 940,782; Nov. 23; Sp. p. 5196; Gaz. vol. 148; p. 882.
- Paper box and making the same. B. S. Morgan. No. 943,034; Dec. 14; Sp. p. 2170; Gaz. vol. 149; p. 371.
- Paper-box-blank-cutting machine. F. Giroud. No. 924,607; June 8; Sp. p. 3252; Gaz. vol. 143; p. 530.
- Paper-box-blank machine. J. R. Van Wormer. No. 939,571; Nov. 9; Sp. p. 2482; Gaz. vol. 148; p. 411.
- Paper-box-covering machine. J. Aspenleiter. No. 912,772; Feb. 16; Sp. p. 3665; Gaz. vol. 139; p. 645.
- Paper-box-covering machine. C. A. Garrett. No. 917,044; Apr. 6; Sp. p. 166; Gaz. vol. 141; p. 32.
- Paper-box-covering machine. C. W. MacDonald. No. 940,541; Nov. 16; Sp. p. 4661; Gaz. vol. 148; p. 776.
- Paper box, Folded. N. L. Gibson. No. 932,385; Aug. 24; Sp. p. 5808; Gaz. vol. 145; p. 993.
- Paper box for articles of merchandise. J. C. Kimsey. No. 929,600; July 27; Sp. p. 5967; Gaz. vol. 144; p. 1048.
- Paper box for packing paints, &c. F. E. Cornell. No. 938,981; Nov. 2; Sp. p. 1151; Gaz. vol. 148; p. 184.
- Paper box, Knockdown. J. W. McIndoe. No. 919,292; Apr. 20; Sp. p. 4993; Gaz. vol. 141; p. 836.
- Paper box machine. L. C. Maltby. No. 919,905; Apr. 27; Sp. p. 6312; Gaz. vol. 141; p. 1078.
- Paper-box machines, Paste-applying mechanism for. A. W. Mitchell. No. 936,796; Oct. 12; Sp. p. 2505; Gaz. vol. 147; p. 417.
- Paper box or carton. E. T. Gowing. No. 922,277; May 18; Sp. p. 4494; Gaz. vol. 142; p. 780.
- Paper boxes and similar articles, Closure for. P. B. Myers. No. 924,094; June 8; Sp. p. 2143; Gaz. vol. 143; p. 358.
- Paper cabinet or fixture, Toilet-. G. T. Johnson. No. 921,843; May 18; Sp. p. 3624; Gaz. vol. 142; p. 639.
- Paper can, Sanitary waste-. M. K. Miller. No. 913,532; Feb. 23; Sp. p. 5166; Gaz. vol. 139; p. 921.
- Paper, Carbon-. W. L. West. No. 910,887; Jan. 26; Sp. p. 5020; Gaz. vol. 138; p. 904.
- Paper cleaning, Waste-. V. P. Schmidt. No. 925,037; June 15; Sp. p. 4165; Gaz. vol. 143; p. 709.
- Paper-clip. C. W. Sanders. No. 912,895; Feb. 16; Sp. p. 3870; Gaz. vol. 139; p. 682.
- Paper-clip. V. Munger. No. 921,271; May 11; Sp. p. 2401; Gaz. vol. 142; p. 420.
- Paper clip or clasp. C. B. Simmons. No. 912,191; Feb. 9; Sp. p. 2365; Gaz. vol. 139; p. 409.
- Paper clip or fastener. J. S. McComb. No. 919,620; Apr. 27; Sp. p. 5718; Gaz. vol. 141; p. 983.
- Paper-coating machine. J. B. Morrow. No. 927,995; July 13; Sp. p. 2684; Gaz. vol. 144; p. 458.
- Paper-coating machine, Wall-. R. Kraus. No. 916,722; Mar. 30; Sp. p. 6200; Gaz. vol. 140; p. 1112.
- Paper container. H. S. Brewington. No. 935,959; Oct. 5; Sp. p. 765; Gaz. vol. 147; p. 113.
- Paper-cutter. J. Dahly. No. 928,636; July 20; Sp. p. 4027; Gaz. vol. 144; p. 702.
- Paper cutter and printer, Automatic roll-. G. V. A. Pine. No. 939,545; Nov. 9; Sp. p. 2425; Gaz. vol. 148; p. 402.
- Paper-cutter clamp. C. Seybold. No. 911,337; Feb. 2; Sp. p. 615; Gaz. vol. 139; p. 106.
- Paper-cutting device. C. Van Middlesworth. No. 935,340; Sept. 28; Sp. p. 4766; Gaz. vol. 146; p. 843.
- Paper-cutting machine. F. Bradmiller. No. 918,120; Apr. 13; Sp. p. 2360; Gaz. vol. 141; p. 422.
- Paper-cutting machine. C. Seybold. No. 918,205; Apr. 13; Sp. p. 2531; Gaz. vol. 141; p. 451.
- Paper-cutting machine. D. T. Wadhams. No. 921,757; May 18; Sp. p. 3422; Gaz. vol. 142; p. 609.
- Paper-cutting machine. T. C. Dexter. No. 923,154; June 1; Sp. p. 73; Gaz. vol. 143; p. 12.
- Paper-cutting machine. G. M. Farnham. No. 933,540; Sept. 7; Sp. p. 1192; Gaz. vol. 146; p. 173.
- Paper-cutting machine. T. C. Dexter. No. 937,514; Oct. 19; Sp. p. 4019; Gaz. vol. 147; p. 683.
- Paper-cutting machine. E. A. La Due. No. 943,258; Dec. 14; Sp. p. 2635; Gaz. vol. 149; p. 446.
- Paper decoration. A. Simonson. No. 940,484; Nov. 16; Sp. p. 4530; Gaz. vol. 148; p. 758.
- Paper-delivery mechanism. W. T. Bailey. No. 908,832; Jan. 5; Sp. p. 839; Gaz. vol. 138; p. 131.
- Paper, Device for detecting inaccurately-fed sheets of. M. M. Kandle. No. 923,658; June 1; Sp. p. 1213; Gaz. vol. 143; p. 186.
- Paper, Device for folding and dividing strips of. E. Klein. No. 924,794; June 15; Sp. p. 3658; Gaz. vol. 143; p. 627.
- Paper-dish-making machine. I. Bertin. No. 939,888; Nov. 9; Sp. p. 3156; Gaz. vol. 148; p. 521.
- Paper dishes, Machine for making. C. Halbreich. No. 926,866; July 6; Sp. p. 339; Gaz. vol. 144; p. 54.
- Paper-dispensing cabinet, Toilet-. A. H. Scott. No. 930,094; Aug. 3; Sp. p. 994; Gaz. vol. 145; p. 161.
- Paper-drying machine. F. L. Allen. No. 935,771; Oct. 5; Sp. p. 330; Gaz. vol. 147; p. 51.
- Paper envelopes suitable for packing bottles, &c., Machine for the manufacture of corrugated. J. E. and A. Tascher. No. 924,854; June 15; Sp. p. 3777; Gaz. vol. 143; p. 646.
- Paper-facing machine, Corrugated-. G. W. Swift, Jr. No. 917,503; Apr. 6; Sp. p. 1068; Gaz. vol. 141; p. 187.
- Paper fastener or clip. J. S. McComb. No. 919,621; Apr. 27; Sp. p. 5719; Gaz. vol. 141; p. 984.
- Paper-feed mechanism. G. S. Conger and C. Pearce. No. 918,013; Apr. 13; Sp. p. 2145; Gaz. vol. 141; p. 386.
- Paper-feed mechanism. P. J. Meahl. No. 943,261; Dec. 14; Sp. p. 2642; Gaz. vol. 149; p. 447.
- Paper-feed mechanism. W. Benjaminovitch. No. 943,622; Dec. 14; Sp. p. 3428; Gaz. vol. 149; p. 572.
- Paper-feeder, Automatic. J. Hren. No. 939,260; Nov. 9; Sp. p. 1753; Gaz. vol. 148; p. 305.
- Paper-feeding machine. J. Kleidmann. No. 911,132; Feb. 2; Sp. p. 207; Gaz. vol. 139; p. 39.
- Paper-feeding machine. T. C. Dexter. No. 925,879; June 22; Sp. p. 5857; Gaz. vol. 143; p. 1013.
- Paper-feeding machine. F. W. Sprowles and J. C. Lorgion. No. 930,702; Aug. 10; Sp. p. 2218; Gaz. vol. 145; p. 386.
- Paper-feeding machine. T. C. Dexter. No. 937,024; Oct. 12; Sp. p. 2951; Gaz. vol. 147; p. 491.
- Paper-feeding machine. G. B. Maegly. No. 938,006; Oct. 26; Sp. p. 5018; Gaz. vol. 147; p. 864.
- Paper file and binder. E. Cloyes. No. 912,075; Feb. 9; Sp. p. 2162; Gaz. vol. 139; p. 374.
- Paper-filing device. P. H. Yawman. No. 918,112; Apr. 13; Sp. p. 2345; Gaz. vol. 141; p. 420.
- Paper-folding machine. C. A. Sturtevant. No. 908,517; Jan. 5; Sp. p. 169; Gaz. vol. 138; p. 31.
- Paper-folding machine. J. H. Adams. No. 909,841; Jan. 12; Sp. p. 2824; Gaz. vol. 138; p. 498.
- Paper from walls, Apparatus for removing. E. Wurmfield and S. Wolpert. No. 934,123; Sept. 14; Sp. p. 2356; Gaz. vol. 146; p. 387.
- Paper fruit-box. E. W. Cornell. No. 922,459; May 25; Sp. p. 4854; Gaz. vol. 142; p. 867.
- Paper-hanger's table or platform. J. F. Kearney. No. 930,188; Aug. 3; Sp. p. 1186; Gaz. vol. 145; p. 193.



*Alphabetical list of inventions—Continued.*

- Paper-hanger's tool. T. J. Olds. No. 937,383; Oct. 19; Sp. p. 3725; Gaz. vol. 147; p. 638.
- Paper-hanging implement, Wall-. S. F. Faucett. No. 919,147; Apr. 20; Sp. p. 4519; Gaz. vol. 141; p. 789.
- Paper-hanging machine. W. P. Evans. No. 914,254; Mar. 2; Sp. p. 1284; Gaz. vol. 140; p. 199.
- Paper-hanging machine. G. Cook. No. 920,272; May 4; Sp. p. 397; Gaz. vol. 142; p. 60.
- Paper-hanging machine, Wall-. N. M. Purviance. No. 944,049; Dec. 21; Sp. p. 4337; Gaz. vol. 149; p. 747.
- Paper having relief-like effect, Manufacture on the paper-machine of. K. Franz. No. 918,525; Apr. 20; Sp. p. 3183; Gaz. vol. 141; p. 584.
- Paper-holder. E. C. Smith. No. 943,279; Dec. 14; Sp. p. 2686; Gaz. vol. 149; p. 454.
- Paper-holder. G. and H. R. Laube. No. 944,880; Dec. 28; Sp. p. 6149; Gaz. vol. 149; p. 1058.
- Paper-holder. G. and H. R. Laube. No. 944,881; Dec. 28; Sp. p. 6150; Gaz. vol. 149; p. 1058.
- Paper holder and cutter, Combined. S. Nordskog. No. 916,000; Mar. 23; Sp. p. 4815; Gaz. vol. 140; p. 851.
- Paper holder, Fruit-wrapping-. E. Fagan. No. 929,201; July 27; Sp. p. 5177; Gaz. vol. 144; p. 918.
- Paper holder, Toilet-. J. Aspenleiter and O. A. Müller. No. 922,745; May 25; Sp. p. 5457; Gaz. vol. 142; p. 960.
- Paper holder, Toilet-. F. H. Hoberg. No. 931,118; Aug. 17; Sp. p. 3146; Gaz. vol. 145; p. 551.
- Paper-holding device. J. B. Foster. No. 934,905; Sept. 21; Sp. p. 3871; Gaz. vol. 146; p. 673.
- Paper lunch-box. H. J. Zell. No. 938,406; Oct. 26; Sp. p. 5904; Gaz. vol. 147; p. 1001.
- Paper-machine. H. J. Meader. No. 923,870; June 8; Sp. p. 1729; Gaz. vol. 143; p. 288.
- Paper-machine. S. E. Dart. No. 924,643; June 15; Sp. p. 3338; Gaz. vol. 143; p. 575.
- Paper, Machine for forming bushing plugs for rolls of. O. O. Judd. No. 908,467; Jan. 5; Sp. p. 62; Gaz. vol. 138; p. 13.
- Paper, &c., Machine for mounting sheets of. E. Jagenberg. No. 924,163; June 8; Sp. p. 2827; Gaz. vol. 143; p. 382.
- Paper-machine pulp-feeding device. E. F. Millard. No. 933,656; Sept. 7; Sp. p. 1407; Gaz. vol. 146; p. 211.
- Paper-making apparatus. W. H. Decker. No. 941,561; Nov. 30; Sp. p. 6855; Gaz. vol. 148; p. 1161.
- Paper-making machine. J. W. Packer. No. 913,670; Feb. 23; Sp. p. 5489; Gaz. vol. 139; p. 966.
- Paper-making machine. J. H. Wallace. No. 940,950; Nov. 23; Sp. p. 5539; Gaz. vol. 148; p. 938.
- Paper-making machine. J. A. White. No. 941,968; Nov. 30; Sp. p. 7725; Gaz. vol. 148; p. 1301.
- Paper-making-machine-cleansing device. A. T. Wyant. No. 941,750; Nov. 30; Sp. p. 7260; Gaz. vol. 148; p. 1225.
- Paper-making-machine ironing and drying device. B. J. Noyes. No. 916,482; Mar. 30; Sp. p. 5740; Gaz. vol. 140; p. 1036.
- Paper-making-machine press-roll. W. C. Nash. No. 912,254; Feb. 9; Sp. p. 2489; Gaz. vol. 139; p. 429.
- Paper-making-machine press-roll. W. C. Nash. No. 912,255; Feb. 9; Sp. p. 2490; Gaz. vol. 139; p. 429.
- Paper-making-machine reel-belt tightener. J. W. Packer. No. 913,231; Feb. 23; Sp. p. 4563; Gaz. vol. 139; p. 819.
- Paper-making machines, Automatic felt-tightener for. W. J. Trempe. No. 934,857; Sept. 21; Sp. p. 3785; Gaz. vol. 146; p. 657.
- Paper-making machines, Automatic stock-regulator for. A. T. Hillman and J. H. Clough. No. 920,741; May 4; Sp. p. 1316; Gaz. vol. 142; p. 213.
- Paper-making machines, Beater-roll for. W. H. Rankin and C. P. Dederick. No. 942,746; Dec. 7; Sp. p. 1477; Gaz. vol. 149; p. 242.
- Paper-making machinery, Contracting reel for. E. J. Pope. No. 915,041; Mar. 9; Sp. p. 2846; Gaz. vol. 140; p. 482.
- Paper-making system. H. S. Rinker. No. 935,407; Sept. 28; Sp. p. 4886; Gaz. vol. 146; p. 864.
- Paper, Marked. L. J. Truinstine. No. 936,959; Oct. 12; Sp. p. 2823; Gaz. vol. 147; p. 470.
- Paper material. M. A. McGuire. No. 925,128; June 15; Sp. p. 4334; Gaz. vol. 143; p. 739.
- Paper, Method and means of treating. A. M. Meincke. No. 916,469; Mar. 30; Sp. p. 5717; Gaz. vol. 140; p. 1032.
- Paper-mills, Treating the spent liquor of. I. Kitsee. No. 942,207; Dec. 7; Sp. p. 384; Gaz. vol. 149; p. 59.
- Paper-rolling machine. A. J. Bradley. No. 920,529; May 4; Sp. p. 878; Gaz. vol. 142; p. 142.
- Paper or board. G. W. Downs. No. 918,740; Apr. 20; Sp. p. 3705; Gaz. vol. 141; p. 657.
- Paper package. S. Wheeler, Jr. No. 910,756; Jan. 26; Sp. p. 4772; Gaz. vol. 138; p. 863.
- Paper package. S. Wheeler. No. 912,762; Feb. 16; Sp. p. 3641; Gaz. vol. 139; p. 642.
- Paper package. C. F. Jenkins. No. 925,913; June 22; Sp. p. 5931; Gaz. vol. 143; p. 1024.
- Paper-package closure. C. F. Jenkins. No. 943,307; Dec. 14; Sp. p. 2740; Gaz. vol. 149; p. 463.
- Paper package, Toilet-. G. T. Johnson. No. 941,715; Nov. 30; Sp. p. 7194; Gaz. vol. 148; p. 1213.
- Paper-pad holder. F. H. Foster. No. 918,743; Apr. 20; Sp. p. 3709; Gaz. vol. 141; p. 658.
- Paper pall. W. G. Haas. No. 925,578; June 22; Sp. p. 5192; Gaz. vol. 143; p. 914.
- Paper pall. B. I. Rike and J. R. Klin. No. 928,218; July 13; Sp. p. 3129; Gaz. vol. 144; p. 533.
- Paper-pasting machine, Wall-. A. C. Ross. No. 931,492; Aug. 17; Sp. p. 3938; Gaz. vol. 145; p. 680.
- Paper-perforating machine. M. M. Lindsay and J. W. Hedgepeth. No. 916,172; Mar. 23; Sp. p. 5126; Gaz. vol. 140; p. 907.
- Paper-piling apparatus. J. Nuttall and C. R. Seddon. No. 920,079; Apr. 27; Sp. p. 6674; Gaz. vol. 141; p. 1135.
- Paper, Producing mosaic or marble. F. Wittstock. No. 915,145; Mar. 16; Sp. p. 3096; Gaz. vol. 140; p. 543.
- Paper, Producing translucent. H. Kuhn. No. 938,877; Nov. 2; Sp. p. 929; Gaz. vol. 148; p. 146.
- Paper, Protecting commercial. E. E. Angell. No. 936,399; Oct. 12; Sp. p. 1668; Gaz. vol. 147; p. 283.
- Paper-pulp-testing apparatus. P. Klemm and L. Schopper. No. 910,002; Jan. 19; Sp. p. 3166; Gaz. vol. 138; p. 585.
- Paper-punch. A. M. Barrett. No. 909,739; Jan. 12; Sp. p. 2638; Gaz. vol. 138; p. 466.
- Paper-rack. D. E. Price. No. 918,196; Apr. 13; Sp. p. 2507; Gaz. vol. 141; p. 447.
- Paper receptacle. M. A. Hill. No. 916,867; Mar. 30; Sp. p. 6474; Gaz. vol. 140; p. 1156.
- Paper receptacle. H. E. Dill. No. 926,053; June 22; Sp. p. 6195; Gaz. vol. 143; p. 1070.
- Paper receptacle. G. H. Griffiths. No. 940,592; Nov. 16; Sp. p. 4762; Gaz. vol. 148; p. 793.
- Paper receptacle. C. F. Jenkins. No. 941,992; Nov. 30; Sp. p. 7761; Gaz. vol. 148; p. 1307.
- Paper receptacle. B. C. Cockrell. No. 943,389; Dec. 14; Sp. p. 2914; Gaz. vol. 149; p. 490.
- Paper receptacle. W. Nemsey. No. 944,145; Dec. 21; Sp. p. 4538; Gaz. vol. 149; p. 779.
- Paper receptacle. C. F. Jenkins. No. 944,613; Dec. 28; Sp. p. 5581; Gaz. vol. 149; p. 968.
- Paper receptacle, Waste-. A. A. Low. No. 929,960; Aug. 3; Sp. p. 717; Gaz. vol. 145; p. 114.
- Paper Receptacles, Machine for making. C. Martinson. No. 941,085; Nov. 23; Sp. p. 5824; Gaz. vol. 148; p. 983.
- Paper, Recovering waste. S. Finkelstein. No. 936,106; Oct. 5; Sp. p. 1064; Gaz. vol. 147; p. 162.
- Paper-reel. C. E. Pope. No. 912,262; Feb. 9; Sp. p. 2510; Gaz. vol. 139; p. 432.
- Paper-roll bracket. S. Wheeler. No. 935,078; Sept. 28; Sp. p. 4240; Gaz. vol. 146; p. 758.
- Paper-roll carrier, guide, and cutter. C. R. Hotchkiss. No. 909,599; Jan. 12; Sp. p. 2351; Gaz. vol. 138; p. 417.
- Paper-roll holder. H. C. Rosebery. No. 940,364; Nov. 16; Sp. p. 4252; Gaz. vol. 148; p. 717.
- Paper-roll protector. H. B. Pelton. No. 932,808; Aug. 31; Sp. p. 6741; Gaz. vol. 145; p. 1156.
- Paper-sack holder, Wire. A. H. Jones. No. 914,421; Mar. 9; Sp. p. 1634; Gaz. vol. 140; p. 279.
- Paper-serving apparatus. R. A. Watts. No. 910,886; Jan. 26; Sp. p. 5019; Gaz. vol. 138; p. 904.
- Paper, Shaping abrasive. G. S. Tenney. No. 921,028; May 11; Sp. p. 1898; Gaz. vol. 142; p. 336.
- Paper sheets together, Machinery for separating, feeding, and cementing. W. Fricker. No. 941,868; Nov. 30; Sp. p. 7534; Gaz. vol. 148; p. 1267.
- Paper-shell machine. J. Chesney. No. 914,384; Mar. 9; Sp. p. 1564; Gaz. vol. 140; p. 266.
- Paper-shell-making machine. J. Chesney. No. 931,269; Aug. 17; Sp. p. 3490; Gaz. vol. 145; p. 604.
- Paper shells, Machine for making. J. Chesney. No. 939,948; Nov. 9; Sp. p. 3292; Gaz. vol. 148; p. 543.
- Paper-splitter. S. M. Langston. No. 943,357; Dec. 14; Sp. p. 2853; Gaz. vol. 149; p. 480.
- Paper-stock, Pulping and cleaning. J. D. Tompkins. No. 910,881; Jan. 26; Sp. p. 5005; Gaz. vol. 138; p. 903.
- Paper-stock-squeezing rolls. S. R. Wagg. No. 933,604; Sept. 7; Sp. p. 1321; Gaz. vol. 146; p. 195.
- Paper-treating machine. A. W. Harrington. No. 915,672; Mar. 16; Sp. p. 4177; Gaz. vol. 140; p. 720.
- Paper-trimmer. J. G. Breckenridge. No. 908,540; Jan. 5; Sp. p. 230; Gaz. vol. 138; p. 39.
- Paper-trimmer. C. T. Ridgely. No. 909,227; Jan. 12; Sp. p. 1633; Gaz. vol. 138; p. 294.
- Paper trimmer, Block wall-. J. W. Moore. No. 920,980; May 11; Sp. p. 1805; Gaz. vol. 142; p. 320.
- Paper-trimming and pasting machine. G. C. Bauman. No. 929,274; July 27; Sp. p. 5345; Gaz. vol. 144; p. 942.
- Paper-trimming machine. H. F. Dunbar. No. 930,744; Aug. 10; Sp. p. 2308; Gaz. vol. 145; p. 400.
- Paper-tube-making machine. S. I. Prescott. No. 933,724; Sept. 7; Sp. p. 1560; Gaz. vol. 146; p. 236.
- Paper tubes, Machine for manufacturing. A. Abel. No. 929,180; July 27; Sp. p. 5126; Gaz. vol. 144; p. 911.
- Paper twine, Machine for the manufacture of. J. Dymock. No. 919,332; Apr. 27; Sp. p. 5099; Gaz. vol. 141; p. 884.
- Paper vessel. W. M. Kinnard. No. 917,456; Apr. 6; Sp. p. 989; Gaz. vol. 141; p. 172.
- Paper vessel. C. T. Bloomer. (Reissue.) No. 13,005; Aug. 10; Sp. p. 2923; Gaz. vol. 145; p. 492.
- Paper vessel. C. F. Jenkins. No. 935,029; Sept. 28; Sp. p. 4129; Gaz. vol. 146; p. 740.
- Paper-vessel closure. C. F. Jenkins. No. 944,615; Dec. 28; Sp. p. 5584; Gaz. vol. 149; p. 968.
- Paper vessel, Liquid-holding. C. F. Jenkins. No. 920,150; May 4; Sp. p. 114; Gaz. vol. 142; p. 18.
- Paper-winding device. H. M. Griffin. No. 935,494; Sept. 28; Sp. p. 5049; Gaz. vol. 146; p. 892.
- Paper wrapper for moldings, &c. F. Kaufman. No. 922,772; May 25; Sp. p. 5510; Gaz. vol. 142; p. 969.
- Papers, Apparatus for collecting, folding, and wrapping. W. A. Tompkins. No. 909,712; Jan. 12; Sp. p. 2580; Gaz. vol. 138; p. 457.
- Papers, Device for impressing seals on. F. Gottschalk. No. 911,007; Jan. 26; Sp. p. 5235; Gaz. vol. 138; p. 943.



*Alphabetical list of inventions—Continued.*

- Papering apparatus. O. O. Carey. No. 924,317; June 8; Sp. p. 2671; Gaz. vol. 143; p. 435.  
 Papering-machine. D. Krapf. No. 924,361; June 8; Sp. p. 2759; Gaz. vol. 143; p. 449.  
 Papering-machine. L. Nemeth. No. 934,951; Sept. 21; Sp. p. 3934; Gaz. vol. 146; p. 682.  
 Papering-machine, Wall-. J. W. Barclay. No. 933,689; Sept. 7; Sp. p. 1486; Gaz. vol. 146; p. 224.  
 Parachute. T. L. Zook. No. 930,452; Aug. 10; Sp. p. 1664; Gaz. vol. 145; p. 301.  
 Parachute-arrow, Self-adjusting. C. R. Stewart. No. 915,314; Mar. 16; Sp. p. 3421; Gaz. vol. 140; p. 597.  
 Parachute, Toy. J. H. Thorpe. No. 910,157; Jan. 19; Sp. p. 3471; Gaz. vol. 138; p. 635.  
 Paraffin on buiter-tubs, Device for spraying. L. A. Rogers. No. 914,605; Mar. 9; Sp. p. 1997; Gaz. vol. 140; p. 341.  
 Paraffin disks or the like, Machine for. W. L. Wright. No. 930,911; Aug. 10; Sp. p. 2658; Gaz. vol. 145; p. 455.  
 Parantiranilin red, &c., Obtaining. E. A. Fourneaux. No. 913,633; Feb. 23; Sp. p. 5424; Gaz. vol. 139; p. 955.  
 Parantiranilin red, &c., Obtaining. E. A. Fourneaux. No. 913,634; Feb. 23; Sp. p. 5427; Gaz. vol. 139; p. 955.  
 Parcel-button. F. A. Wilkendorf. No. 910,438; Jan. 19; Sp. p. 4100; Gaz. vol. 138; p. 735.  
 Parchment-like skin, Manufacture of. B. Trenckmann. No. 915,638; Mar. 16; Sp. p. 4095; Gaz. vol. 140; p. 707.  
 Parer and cutter, Vegetable. M. L. Hawks. (Reissue). No. 12,965; June 1; Sp. p. 1585; Gaz. vol. 143; p. 236.  
 Parer, Ear-corn. M. B. Johnson. No. 935,517; Sept. 28; Sp. p. 5123; Gaz. vol. 146; p. 900.  
 Parer, Fruit-. F. G. Mower. No. 923,561; June 1; Sp. p. 996; Gaz. vol. 143; p. 153.  
 Paring and cutting knife. W. A. Lindsay. No. 919,735; Apr. 27; Sp. p. 5949; Gaz. vol. 141; p. 1021.  
 Paring-knife. J. Klinge. No. 935,761; Oct. 5; Sp. p. 296; Gaz. vol. 147; p. 47.  
 Paring-machine. G. Jahansan. No. 943,249; Dec. 14; Sp. p. 2617; Gaz. vol. 149; p. 443.  
 Paring machine, Vegetable-. H. Robinson. No. 942,932; Dec. 14; Sp. p. 1925; Gaz. vol. 149; p. 336.  
 Parrot-stand. O. Lindemann. No. 910,298; Jan. 19; Sp. p. 3319; Gaz. vol. 138; p. 688.  
 Particles from a fluid stream, Electrical separation of. L. N. Morscher. No. 916,746; Mar. 30; Sp. p. 6247; Gaz. vol. 140; p. 1118.  
 Partition-holder. R. M. Vick. No. 943,719; Dec. 21; Sp. p. 3651; Gaz. vol. 149; p. 634.  
 Partition or book-support, Movable. R. O. Wheeler and A. H. Hilekman. No. 931,362; Aug. 17; Sp. p. 3684; Gaz. vol. 145; p. 636.  
 Party-line indicating-key. C. H. Smith. No. 911,339; Feb. 2; Sp. p. 619; Gaz. vol. 139; p. 106.  
 Party-line indicating-key. G. M. Campbell. No. 911,377; Feb. 2; Sp. p. 691; Gaz. vol. 139; p. 118.  
 Passenger control. E. Linhardt. No. 922,170; May 18; Sp. p. 4252; Gaz. vol. 142; p. 743.  
 Passenger-recorder. C. Messick. No. 923,287; June 1; Sp. p. 402; Gaz. vol. 143; p. 57.  
 Passenger-register for public vehicles. H. E. Pim. No. 920,993; May 11; Sp. p. 1530; Gaz. vol. 142; p. 325.  
 Paste-applying mechanism. H. C. Herr. No. 913,008; Feb. 23; Sp. p. 4106; Gaz. vol. 139; p. 745.  
 Paste pot or jar. C. A. Schmitt. No. 941,278; Nov. 23; Sp. p. 6259; Gaz. vol. 148; p. 1047.  
 Paste to cardboard, &c., Machine for applying. J. McKibbin. No. 941,530; Nov. 30; Sp. p. 6799; Gaz. vol. 148; p. 1151.  
 Pasting-machine. L. V. Estes. No. 921,386; May 11; Sp. p. 2666; Gaz. vol. 142; p. 459.  
 Pasteboard with paper, &c., Machine for coating. W. Kellner. No. 938,586; Nov. 2; Sp. p. 334; Gaz. vol. 148; p. 49.  
 Pasteurizer. L. S. Plourts. No. 937,327; Oct. 19; Sp. p. 3585; Gaz. vol. 147; p. 620.  
 Pasteurizing and cooling process. J. Willmann. No. 930,910; Aug. 10; Sp. p. 2654; Gaz. vol. 145; p. 455.  
 Pasteurizing apparatus. A. A. Pindstoffe. No. 913,559; Feb. 23; Sp. p. 5257; Gaz. vol. 139; p. 930.  
 Pasteurizing apparatus. J. T. H. Paul. No. 913,910; Mar. 2; Sp. p. 519; Gaz. vol. 140; p. 83.  
 Pasteurizing apparatus. H. M. A. Harders. No. 915,765; Mar. 23; Sp. p. 4372; Gaz. vol. 140; p. 777.  
 Pasteurizing apparatus. S. Shapiro. No. 933,927; Sept. 14; Sp. p. 1965; Gaz. vol. 146; p. 324.  
 Pasteurizing apparatus. A. A. Pindstoffe. No. 939,162; Nov. 2; Sp. p. 1529; Gaz. vol. 148; p. 248.  
 Pasteurizing holding-tank. J. E. Amend. No. 931,025; Aug. 17; Sp. p. 2938; Gaz. vol. 145; p. 520.  
 Pastry-cone trimmer. O. Hauge. No. 909,999; Jan. 19; Sp. p. 3163; Gaz. vol. 138; p. 584.  
 Pastry-cutting machine. E. B. Coburn. No. 939,981; Nov. 16; Sp. p. 3382; Gaz. vol. 148; p. 582.  
 Pastry-making machine. E. H. Lanier and F. K. Driesbach. No. 922,004; May 18; Sp. p. 3948; Gaz. vol. 142; p. 690.  
 Pattern: See Adjustable pattern; Elbow-pattern; Rail-joint pattern.  
 Pattern and stripping plates, Making. P. Bonvillain and E. Ronceray. No. 910,166; Jan. 19; Sp. p. 3488; Gaz. vol. 138; p. 638.  
 Pattern-carrier. E. H. Mumford. No. 932,563; Aug. 31; Sp. p. 6202; Gaz. vol. 145; p. 1075.  
 Pattern-drafting apparatus, Garment-. E. J. Curran. No. 943,770; Dec. 21; Sp. p. 3742; Gaz. vol. 149; p. 651.  
 Pattern for garments, Block-. E. H. Peterson. No. 928,691; July 20; Sp. p. 4138; Gaz. vol. 144; p. 720.  
 Pattern for letters and numerals. D. F. Luke. No. 929,961; Aug. 3; Sp. p. 719; Gaz. vol. 145; p. 115.  
 Pattern-former. M. Dubinsky. No. 926,322; June 29; Sp. p. 6783; Gaz. vol. 143; p. 1194.  
 Patterns, Laying out. V. Evangelista. No. 927,845; July 13; Sp. p. 2385; Gaz. vol. 144; p. 408.  
 Pavement. W. E. Hassam. No. 912,126; Feb. 9; Sp. p. 2255; Gaz. vol. 139; p. 390.  
 Pavement. W. B. Warren. No. 916,070; Mar. 23; Sp. p. 4939; Gaz. vol. 140; p. 875.  
 Pavement. W. H. Fulcher. No. 916,693; Mar. 30; Sp. p. 6164; Gaz. vol. 140; p. 1104.  
 Pavement. R. S. Blome and W. J. Sinek. No. 919,530; Apr. 27; Sp. p. 5537; Gaz. vol. 141; p. 952.  
 Pavement. E. Alcott. No. 929,366; July 27; Sp. p. 5561; Gaz. vol. 144; p. 975.  
 Pavement. W. H. Baker. No. 944,652; Dec. 28; Sp. p. 5649; Gaz. vol. 149; p. 980.  
 Pavement and constructing the same. J. A. Omberg, Jr. No. 910,568; Jan. 26; Sp. p. 4385; Gaz. vol. 138; p. 804.  
 Pavement and making the same. J. C. Travilla. No. 936,493; Oct. 12; Sp. p. 1895; Gaz. vol. 147; p. 313.  
 Pavement-cutter. D. E. Wiseman and F. H. Hedden. No. 928,488; July 20; Sp. p. 3717; Gaz. vol. 144; p. 654.  
 Pavement heating and rolling machinery, Bituminous-. C. F. Prescott and W. E. Kerns. No. 931,085; Aug. 17; Sp. p. 3081; Gaz. vol. 145; p. 540.  
 Pavement, Removing asphalt. W. E. Kerns. No. 910,922; Jan. 26; Sp. p. 5079; Gaz. vol. 138; p. 915.  
 Pavement, Street-. S. E. Finley. No. 922,687; May 25; Sp. p. 5338; Gaz. vol. 142; p. 942.  
 Pavement, Street-. S. E. Finley. No. 922,688; May 25; Sp. p. 5339; Gaz. vol. 142; p. 942.  
 Paving, Apparatus for making tar. J. Ward. No. 933,803; Sept. 14; Sp. p. 1707; Gaz. vol. 146; p. 283.  
 Paving-block. E. Alcott. No. 920,807; May 4; Sp. p. 1449; Gaz. vol. 142; p. 234.  
 Paving-block. E. Alcott. No. 920,808; May 4; Sp. p. 1451; Gaz. vol. 142; p. 234.  
 Paving-block. W. Hanley. No. 926,062; June 22; Sp. p. 6217; Gaz. vol. 143; p. 1073.  
 Paving-block. S. Butz. No. 930,153; Aug. 3; Sp. p. 1118; Gaz. vol. 145; p. 181.  
 Paving-block. D. Atherton. No. 933,521; Sept. 7; Sp. p. 1162; Gaz. vol. 146; p. 167.  
 Paving brick, Street-. F. W. Grebe. No. 929,210; July 27; Sp. p. 5190; Gaz. vol. 144; p. 920.  
 Paving composition. J. H. Amies. No. 934,495; Sept. 21; Sp. p. 3073; Gaz. vol. 146; p. 536.  
 Paving composition. J. H. Amies. No. 942,237; Dec. 7; Sp. p. 450; Gaz. vol. 149; p. 69.  
 Paving composition, Making and laying. J. H. Amies. No. 932,941; Aug. 31; Sp. p. 6983; Gaz. vol. 145; p. 1199.  
 Paving, Manufacturing a mastic for. J. H. Amies. No. 929,813; Aug. 3; Sp. p. 391; Gaz. vol. 145; p. 65.  
 Paving purposes, Composition for. J. H. Amies. No. 934,494; Sept. 21; Sp. p. 3073; Gaz. vol. 146; p. 536.  
 Paving purposes, Composition for. J. H. Amies. No. 942,236; Dec. 7; Sp. p. 449; Gaz. vol. 149; p. 69.  
 Paving, Sheet-wood. J. H. Amies. No. 934,030; Sept. 14; Sp. p. 2153; Gaz. vol. 146; p. 356.  
 Paw, Artificial. H. Baehr and A. Sommerfeld. No. 924,875; June 15; Sp. p. 3829; Gaz. vol. 143; p. 654.  
 Pawl-and-ratchet mechanism. J. C. Regan. No. 917,965; Apr. 13; Sp. p. 2023; Gaz. vol. 141; p. 368.  
 Pawl-and-ratchet mechanism. W. Trewhella. No. 928,892; July 20; Sp. p. 4532; Gaz. vol. 144; p. 789.  
 Pay-station, Automatic. H. W. Hamlin. No. 935,150; Sept. 28; Sp. p. 4381; Gaz. vol. 146; p. 782.  
 Pea-huller. R. W. J. Stewart. No. 932,510; Aug. 31; Sp. p. 6095; Gaz. vol. 145; p. 1057.  
 Pea-huller. W. L. Hay. No. 933,559; Sept. 7; Sp. p. 1227; Gaz. vol. 146; p. 180.  
 Pea huller and separating machine. M. T. Freeman. No. 924,447; June 8; Sp. p. 2911; Gaz. vol. 143; p. 476.  
 Pea-separator. A. L. Hamacek. No. 909,587; Jan. 12; Sp. p. 2330; Gaz. vol. 138; p. 413.  
 Pea-sheller. A. Aikele, Jr. No. 937,270; Oct. 19; Sp. p. 3485; Gaz. vol. 147; p. 602.  
 Peas on the vine, Roll for hulling green. E. G. Albaugh. No. 913,678; Mar. 2; Sp. p. 3; Gaz. vol. 140; p. 3.  
 Peach pitter and slicer. W. I. Irwin. No. 943,193; Dec. 14; Sp. p. 2499; Gaz. vol. 149; p. 424.  
 Peach slitting and pitting machine. S. J. Dunkley. No. 921,523; May 11; Sp. p. 2935; Gaz. vol. 142; p. 504.  
 Peanut-feeding mechanism. B. M. Davis. No. 930,736; Aug. 10; Sp. p. 2286; Gaz. vol. 145; p. 397.  
 Peanut picker and stemmer. J. T. Benthall. No. 925,983; June 22; Sp. p. 6054; Gaz. vol. 143; p. 1047.  
 Peanut-picking machine. F. F. Ferguson. No. 912,835; Feb. 16; Sp. p. 3780; Gaz. vol. 139; p. 665.  
 Peanut-roaster. R. O. Stutsman. No. 930,104; Aug. 3; Sp. p. 1017; Gaz. vol. 145; p. 164.  
 Peanut-shelling machine. R. M. Newland. No. 941,686; Nov. 30; Sp. p. 7113; Gaz. vol. 148; p. 1202.  
 Peanut-stripper. J. L. White. No. 912,343; Feb. 16; Sp. p. 2727; Gaz. vol. 139; p. 497.  
 Peat by air-currents, Process and apparatus for drying. H. von Morsey-Picard and E. von Verschuer. No. 914,598; Mar. 9; Sp. p. 1983; Gaz. vol. 140; p. 338.  
 Peat-condensing machine. W. L. Shepard. No. 940,944; Nov. 23; Sp. p. 5528; Gaz. vol. 148; p. 936.

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- Peat-cutting machine. O. E. Moulton. No. 928,995; July 27; Sp. p. 4742; Gaz. vol. 144; p. 850.  
 Peat-working machine. G. Matthews. No. 932,041; Aug. 24; Sp. p. 5145; Gaz. vol. 145; p. 879.  
 Peavey. A. C. Long. No. 919,044; Apr. 20; Sp. p. 4331; Gaz. vol. 141; p. 756.  
 Pebble-mill. M. F. Abbé. No. 944,996; Dec. 28; Sp. p. 6372; Gaz. vol. 149; p. 1094.  
 Pebble-mill. M. F. Abbé. No. 944,997; Dec. 28; Sp. p. 6373; Gaz. vol. 149; p. 1094.  
 Pedal-action, Player-grand. J. Hattener and A. Kuhle. No. 936,998; Oct. 12; Sp. p. 2892; Gaz. vol. 147; p. 482.  
 Pedal and panel mechanism. T. P. Brown. No. 939,386; Nov. 9; Sp. p. 2095; Gaz. vol. 148; p. 350.  
 Pedal-folding apparatus. F. C. White. No. 942,359; Dec. 7; Sp. p. 691; Gaz. vol. 149; p. 112.  
 Pedal mechanism. G. H. Davis. No. 935,967; Oct. 5; Sp. p. 777; Gaz. vol. 147; p. 116.  
 Pedal mechanism. A. G. Gulbransen. No. 936,447; Oct. 12; Sp. p. 1796; Gaz. vol. 147; p. 298.  
 Pedestal. F. J. and H. G. Carl. No. 926,097; June 29; Sp. p. 6305; Gaz. vol. 143; p. 1120.  
 Pedestal-table. O. G. Franks. No. 915,170; Mar. 16; Sp. p. 3139; Gaz. vol. 140; p. 551.  
 Peeling-machine. H. Hahn. No. 910,374; Jan. 19; Sp. p. 3969; Gaz. vol. 138; p. 713.  
 Peeling machine, Apple. R. Buchl. No. 938,822; Nov. 2; Sp. p. 801; Gaz. vol. 148; p. 129.  
 Peg, Tuning-. L. C. Becker. No. 912,441; Feb. 16; Sp. p. 2925; Gaz. vol. 139; p. 530.  
 Peg-wood sharpener. G. W. Bowers. No. 933,414; Sept. 7; Sp. p. 852; Gaz. vol. 146; p. 133.  
 Pegging-machine. O. Ashton. No. 920,242; May 4; Sp. p. 312; Gaz. vol. 142; p. 49.  
 Pegging-machine. L. A. Casgrain. No. 924,965; June 15; Sp. p. 4008; Gaz. vol. 143; p. 684.  
 Pegging-machine. S. M. Cutter. No. 930,047; Aug. 3; Sp. p. 891; Gaz. vol. 145; p. 144.  
 Pegging-machine. J. F. Davey. No. 931,042; Aug. 17; Sp. p. 2975; Gaz. vol. 145; p. 526.  
 Pelorus. J. M. Ellicott and P. Ferber. No. 918,133; Apr. 13; Sp. p. 2384; Gaz. vol. 141; p. 427.  
 Pelts, Machine for treatment of. M. Whitlatch. No. 909,977; Jan. 19; Sp. p. 3117; Gaz. vol. 138; p. 577.  
 Pen. J. A. Alling. No. 920,900; May 11; Sp. p. 1655; Gaz. vol. 142; p. 295.  
 Pen. W. von Bolton. No. 930,930; Aug. 10; Sp. p. 2694; Gaz. vol. 145; p. 461.  
 Pen. W. von Bolton. No. 930,931; Aug. 10; Sp. p. 2696; Gaz. vol. 145; p. 461.  
 Pen. W. von Bolton. No. 930,932; Aug. 10; Sp. p. 2697; Gaz. vol. 145; p. 461.  
 Pen and pencil clip. F. C. Lowrey. No. 923,055; May 25; Sp. p. 6106; Gaz. vol. 142; p. 1060.  
 Pen and pencil holder. A. M. Moyley. No. 937,087; Oct. 19; Sp. p. 3081; Gaz. vol. 147; p. 541.  
 Pen and pencil holder, Pocket. J. P. Randall. No. 936,941; Oct. 12; Sp. p. 2776; Gaz. vol. 147; p. 464.  
 Pen attachment. B. H. Collins. No. 916,107; Mar. 23; Sp. p. 5005; Gaz. vol. 140; p. 887.  
 Pen attachment, Fountain-. R. E. Buschek. No. 928,105; July 13; Sp. p. 2896; Gaz. vol. 144; p. 494.  
 Pen automatic fountain attachment. C. A. Faust. No. 912,659; Feb. 16; Sp. p. 3369; Gaz. vol. 139; p. 605.  
 Pen, &c., clip, Fountain-. J. Blair. No. 909,862; Jan. 19; Sp. p. 2875; Gaz. vol. 138; p. 537.  
 Pen clip, Fountain-. J. G. Rider. No. 919,244; Apr. 20; Sp. p. 4582; Gaz. vol. 141; p. 820.  
 Pen, Composite. J. F. Betzler. No. 941,403; Nov. 30; Sp. p. 6536; Gaz. vol. 148; p. 1110.  
 Pen, Drafting-. S. D. Shepard. No. 923,717; June 1; Sp. p. 1329; Gaz. vol. 143; p. 206.  
 Pen-ejector. M. D. McOmber. No. 925,374; June 15; Sp. p. 4782; Gaz. vol. 143; p. 817.  
 Pen feed-bar, Fountain-. E. V. Whiton. No. 910,980; Jan. 26; Sp. p. 5184; Gaz. vol. 138; p. 934.  
 Pen-feeder. F. M. Connolly. No. 944,177; Dec. 21; Sp. p. 4604; Gaz. vol. 149; p. 790.  
 Pen, Fountain-. F. E. Waterman. No. 909,262; Jan. 12; Sp. p. 1693; Gaz. vol. 138; p. 305.  
 Pen, Fountain-. A. J. Scritchfield. No. 927,177; July 6; Sp. p. 990; Gaz. vol. 144; p. 160.  
 Pen, Fountain-. L. H. Lloyd. No. 928,312; July 20; Sp. p. 3395; Gaz. vol. 144; p. 597.  
 Pen, Fountain-. H. H. Wright. No. 929,360; July 27; Sp. p. 5551; Gaz. vol. 144; p. 973.  
 Pen, Fountain-. C. A. Eklund. No. 929,843; Aug. 3; Sp. p. 476; Gaz. vol. 145; p. 75.  
 Pen, Fountain-. P. D. Corrigan. No. 932,447; Aug. 31; Sp. p. 5947; Gaz. vol. 145; p. 1036.  
 Pen, Fountain-. T. C. Grant. No. 933,248; Sept. 7; Sp. p. 506; Gaz. vol. 146; p. 77.  
 Pen, Fountain-. A. B. Spangler. No. 937,110; Oct. 19; Sp. p. 3126; Gaz. vol. 147; p. 550.  
 Pen, Fountain-. M. W. Moore. No. 939,057; Nov. 2; Sp. p. 1298; Gaz. vol. 148; p. 210.  
 Pen, Fountain-. H. J. Upton. No. 939,456; Nov. 9; Sp. p. 2246; Gaz. vol. 148; p. 373.  
 Pen, Fountain drafting-. E. R. Smith. No. 929,037; July 27; Sp. p. 4827; Gaz. vol. 144; p. 863.  
 Pen nib, Fountain-. D. Cameron. No. 940,509; Nov. 16; Sp. p. 4593; Gaz. vol. 148; p. 766.  
 Pen, Reservoir-. E. Dela Rue. No. 926,611; June 29; Sp. p. 7312; Gaz. vol. 143; p. 1290.  
 Pen, Reservoir-. W. W. Sanford. No. 941,466; Nov. 30; Sp. p. 6669; Gaz. vol. 148; p. 1130.  
 Pen, Self-filling fountain-. W. A. Welty. No. 916,513; Mar. 30; Sp. p. 5833; Gaz. vol. 140; p. 1046.  
 Pen, Self-filling fountain-. J. A. Vogelmann. No. 940,909; Nov. 23; Sp. p. 5448; Gaz. vol. 148; p. 923.  
 Pen, Stock-. J. A. Fleming. No. 932,380; Aug. 24; Sp. p. 5798; Gaz. vol. 145; p. 991.  
 Pen, Stylographic. E. dela Rue. No. 921,007; May 11; Sp. p. 1856; Gaz. vol. 142; p. 329.  
 Pen, Writing-. W. H. Schweizer. No. 909,236; Jan. 12; Sp. p. 1650; Gaz. vol. 138; p. 297.  
 Pen, Writing-. W. H. Schweizer. No. 911,336; Feb. 2; Sp. p. 614; Gaz. vol. 139; p. 105.  
 Pen, Writing-. A. Jahn. No. 920,874; May 4; Sp. p. 1604; Gaz. vol. 142; p. 256.  
 Pens, Ink-feeder for. M. Carey. No. 923,406; June 1; Sp. p. 672; Gaz. vol. 143; p. 98.  
 Penholder. A. W. Pegg. No. 925,719; June 22; Sp. p. 5498; Gaz. vol. 143; p. 959.  
 Penholder. A. M. Gardner. No. 933,547; Sept. 7; Sp. p. 1205; Gaz. vol. 146; p. 176.  
 Penholder. J. Altman. No. 937,747; Oct. 26; Sp. p. 4478; Gaz. vol. 147; p. 777.  
 Penholder. C. F. Seeman. No. 937,873; Oct. 26; Sp. p. 4745; Gaz. vol. 147; p. 820.  
 Penholder. W. T. Nelson. No. 938,330; Oct. 26; Sp. p. 5725; Gaz. vol. 147; p. 975.  
 Penholder. W. B. Grover. No. 938,760; Nov. 2; Sp. p. 667; Gaz. vol. 148; p. 106.  
 Penholder. R. J. Cox. No. 939,810; Nov. 9; Sp. p. 3007; Gaz. vol. 148; p. 495.  
 Penholder. H. E. Hoke. No. 944,190; Dec. 21; Sp. p. 4629; Gaz. vol. 149; p. 793.  
 Penholder. H. E. Hoke. No. 944,191; Dec. 21; Sp. p. 4630; Gaz. vol. 149; p. 793.  
 Penholder attachment. J. J. Fitzgerald. No. 941,240; Nov. 23; Sp. p. 6171; Gaz. vol. 148; p. 1035.  
 Penholder, Ejecting-. A. W. Allbery. No. 913,933; Mar. 2; Sp. p. 574; Gaz. vol. 140; p. 92.  
 Penholder fountain attachment. D. O. Vaughan. No. 931,530; Aug. 17; Sp. p. 4007; Gaz. vol. 145; p. 690.  
 Penholder reservoir attachment. S. Soule. No. 929,172; July 27; Sp. p. 5113; Gaz. vol. 144; p. 908.  
 Pencil. J. Vasicsek. No. 915,130; Mar. 16; Sp. p. 3074; Gaz. vol. 140; p. 539.  
 Pencil. W. C. Hills. No. 919,167; Apr. 20; Sp. p. 4548; Gaz. vol. 141; p. 795.  
 Pencil. W. A. Fraser. No. 940,797; Nov. 23; Sp. p. 5233; Gaz. vol. 148; p. 888.  
 Pencil and making same. F. H. Lippincott. No. 937,252; Oct. 19; Sp. p. 3451; Gaz. vol. 147; p. 596.  
 Pencil attachment. M. E. Danahay. No. 928,852; July 20; Sp. p. 4439; Gaz. vol. 144; p. 774.  
 Pencil-box. E. I. Hawk. No. 916,443; Mar. 30; Sp. p. 5645; Gaz. vol. 140; p. 1023.  
 Pencil-case and other cylinder. A. Walker. No. 924,406; June 8; Sp. p. 2841; Gaz. vol. 143; p. 464.  
 Pencil-holder. C. H. Wilken. No. 908,528; Jan. 5; Sp. p. 200; Gaz. vol. 138; p. 35.  
 Pencil-holder. C. T. Carson. No. 918,125; Apr. 13; Sp. p. 2370; Gaz. vol. 141; p. 425.  
 Pencil-holder. C. Platner. No. 933,389; Sept. 7; Sp. p. 808; Gaz. vol. 146; p. 125.  
 Pencil-holder. J. W. Myers. No. 935,393; Sept. 28; Sp. p. 4861; Gaz. vol. 146; p. 860.  
 Pencil-holder. F. G. Knapp. No. 937,815; Oct. 26; Sp. p. 4619; Gaz. vol. 147; p. 800.  
 Pencil-holder. W. E. Philo. No. 940,822; Nov. 23; Sp. p. 5281; Gaz. vol. 148; p. 896.  
 Pencil-holder. E. C. Reiter. No. 942,747; Dec. 7; Sp. p. 1478; Gaz. vol. 149; p. 242.  
 Pencil holder and sharpener, Combined. C. H. Haase. No. 941,518; Nov. 30; Sp. p. 6777; Gaz. vol. 148; p. 1148.  
 Pencil holder and sharpener, Combined. J. H. Allen. No. 944,934; Dec. 28; Sp. p. 6251; Gaz. vol. 149; p. 1074.  
 Pencil-holder, Pocket. C. L. Gerds. No. 917,582; Apr. 6; Sp. p. 1216; Gaz. vol. 141; p. 213.  
 Pencil-holder, Pocket. J. O. Heinley. No. 938,764; Nov. 2; Sp. p. 673; Gaz. vol. 148; p. 107.  
 Pencil, Lead-. J. V. H. Nott. No. 918,359; Apr. 13; Sp. p. 2830; Gaz. vol. 141; p. 501.  
 Pencil-making machine. R. H. Howard. No. 936,722; Oct. 12; Sp. p. 2359; Gaz. vol. 147; p. 392.  
 Pencil-making machinery. F. P. Dorizzi. No. 918,979; Apr. 20; Sp. p. 4215; Gaz. vol. 141; p. 736.  
 Pencil-marking machine. H. Dumars. No. 927,509; July 13; Sp. p. 1652; Gaz. vol. 144; p. 297.  
 Pencil, Mechanical. E. Berquist. No. 928,733; July 20; Sp. p. 4215; Gaz. vol. 144; p. 734.  
 Pencil-point sharpener. A. W. Elsner. No. 938,835; Nov. 2; Sp. p. 830; Gaz. vol. 148; p. 133.  
 Pencil, Polypoint. J. C. Haring. No. 940,247; Nov. 16; Sp. p. 3981; Gaz. vol. 148; p. 677.  
 Pencil-sharpener. E. Sutherland. No. 911,778; Feb. 9; Sp. p. 1479; Gaz. vol. 139; p. 276.  
 Pencil-sharpener. A. B. Bly. No. 912,357; Feb. 16; Sp. p. 2754; Gaz. vol. 139; p. 502.  
 Pencil-sharpener. W. T. MacHale. No. 912,391; Feb. 16; Sp. p. 2826; Gaz. vol. 139; p. 514.



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Pencil-sharpener. E. C. Scruggs. No. 935,823; Oct. 5; Sp. p. 480; Gaz. vol. 147; p. 68.  
Pencil-sharpener. A. J. Räsänen. No. 937,175; Oct. 19; Sp. p. 3280; Gaz. vol. 147; p. 571.  
Pencil-sharpener. E. H. Humphrey. No. 939,133; Nov. 2; Sp. p. 1451; Gaz. vol. 148; p. 236.  
Pencil-sharpener. R. F. George. No. 941,631; Nov. 30; Sp. p. 7000; Gaz. vol. 148; p. 1184.  
Pencil-sharpener. A. Rydquist. No. 942,107; Dec. 7; Sp. p. 160; Gaz. vol. 149; p. 25.  
Pencil-sharpener. A. W. Gifford. No. 943,223; Dec. 14; Sp. p. 2556; Gaz. vol. 149; p. 434.  
Pencil-sharpener and cigar-cutter, Combined. H. Eichler. No. 921,964; May 18; Sp. p. 3863; Gaz. vol. 142; p. 676.  
Pencil-sharpener, Automatic. L. I. Hamilton. No. 919,005; Apr. 20; Sp. p. 4258; Gaz. vol. 141; p. 744.  
Pencil-sharpening device. H. G. Hubener and F. Mueller. No. 924,662; June 15; Sp. p. 3370; Gaz. vol. 143; p. 581.  
Pencil-tips, Spring-protector for india-rubber. S. H. Crocker. No. 922,093; May 18; Sp. p. 4120; Gaz. vol. 142; p. 720.  
Pencils and the like, Thumb-rest for. S. O. Donovan. No. 936,868; Oct. 12; Sp. p. 2041; Gaz. vol. 147; p. 440.  
Pencils, Machine for printing. W. H. Johnson. No. 910,289; Jan. 19; Sp. p. 3800; Gaz. vol. 138; p. 684.  
Pendant. A. Jacques. No. 939,510; Nov. 9; Sp. p. 2351; Gaz. vol. 148; p. 390.  
Pendant-bow. L. E. F. Wächter. No. 916,809; Mar. 30; Sp. p. 6361; Gaz. vol. 140; p. 1137.  
Pendant switch. J. G. Peterson. No. 937,857; Oct. 26; Sp. p. 4713; Gaz. vol. 147; p. 815.  
Pendulum-bob, Rotary. C. Grivolas. No. 937,792; Oct. 26; Sp. p. 4582; Gaz. vol. 147; p. 794.  
Pendulum-escapement, Self-adjusting. W. B. Miller. No. 933,381; Sept. 7; Sp. p. 797; Gaz. vol. 146; p. 123.  
Perambulator. A. E. Robotham. No. 919,956; Apr. 27; Sp. p. 6403; Gaz. vol. 141; p. 1094.  
Perambulator. D. R. Collier. No. 929,560; July 27; Sp. p. 5889; Gaz. vol. 144; p. 1035.  
Perambulator. D. R. Collier. No. 930,044; Aug. 3; Sp. p. 886; Gaz. vol. 145; p. 143.  
Perambulator-brake. C. West. No. 924,708; June 15; Sp. p. 3472; Gaz. vol. 143; p. 597.  
Perambulator, Folding. O. Kurz. No. 933,079; Sept. 7; Sp. p. 83; Gaz. vol. 146; p. 14.  
Perambulator or vehicle. G. Siffert and G. W. Steele. No. 918,782; Apr. 20; Sp. p. 3778; Gaz. vol. 141; p. 670.  
Percolator. J. R. Holley. No. 913,293; Feb. 23; Sp. p. 4678; Gaz. vol. 139; p. 840.  
Percolator. F. J. Stayton. No. 921,907; May 18; Sp. p. 3738; Gaz. vol. 142; p. 659.  
Percolator. E. S. Peck. No. 925,833; June 22; Sp. p. 5764; Gaz. vol. 143; p. 997.  
Percolator. E. S. Peck. No. 925,835; June 22; Sp. p. 5768; Gaz. vol. 143; p. 998.  
Percolator. R. Hardesty. No. 928,966; July 27; Sp. p. 4679; Gaz. vol. 144; p. 840.  
Percolator. C. A. Stelle. No. 938,906; Nov. 2; Sp. p. 1007; Gaz. vol. 148; p. 159.  
Percolator. J. B. Livingston. No. 939,281; Nov. 9; Sp. p. 1809; Gaz. vol. 148; p. 313.  
Percolator and extractor. C. Warburton. No. 912,634; Feb. 16; Sp. p. 3332; Gaz. vol. 139; p. 597.  
Percolator, Coffee. G. E. Mittinger, Jr. No. 941,330; Nov. 23; Sp. p. 6348; Gaz. vol. 148; p. 1062.  
Percolator, Coffee. C. C. Mowbray and W. F. Geist. No. 943,036; Dec. 14; Sp. p. 2176; Gaz. vol. 149; p. 372.  
Percolator for coffee-urns. J. D. Houck. No. 944,865; Dec. 28; Sp. p. 6122; Gaz. vol. 149; p. 1052.  
Percolator, Simple-syrup. S. T. Hensel. No. 939,131; Nov. 2; Sp. p. 1447; Gaz. vol. 148; p. 235.  
Percolator, Syrup. F. De Clercq. No. 941,234; Nov. 23; Sp. p. 6159; Gaz. vol. 148; p. 1033.  
Percolator, Water. G. J. Wigenhorn. No. 944,395; Dec. 28; Sp. p. 5065; Gaz. vol. 149; p. 891.  
Percussion-engine. W. Mauss. No. 931,449; Aug. 17; Sp. p. 3859; Gaz. vol. 145; p. 666.  
Percussion-machine. W. Mauss. No. 910,560; Jan. 26; Sp. p. 4370; Gaz. vol. 138; p. 801.  
Percussive machine and tool. W. Mauss. No. 936,550; Oct. 12; Sp. p. 2012; Gaz. vol. 147; p. 331.  
Perforating and binding machines, Assembly-box for. C. F. McBee. No. 942,180; Dec. 7; Sp. p. 331; Gaz. vol. 149; p. 50.  
Perforating and punching instrument. F. H. W. Higgins. No. 923,792; June 1; Sp. p. 1552; Gaz. vol. 143; p. 232.  
Perforating apparatus. H. M. Salyer. No. 918,376; Apr. 13; Sp. p. 2863; Gaz. vol. 141; p. 507.  
Perforating apparatus. F. E. D'Humy. No. 944,612; Dec. 28; Sp. p. 5579; Gaz. vol. 149; p. 967.  
Perforating device, Book-sheet-. A. Lawson. No. 918,871; Apr. 20; Sp. p. 3981; Gaz. vol. 141; p. 699.  
Perforating-machine. J. Ramsay and H. H. Brown. No. 917,146; Apr. 6; Sp. p. 387; Gaz. vol. 141; p. 67.  
Perforating-machine. A. W. Fellows. No. 934,397; Sept. 14; Sp. p. 2876; Gaz. vol. 146; p. 480.  
Perforating-machine. L. W. G. Flynt. No. 941,704; Nov. 30; Sp. p. 7161; Gaz. vol. 148; p. 1209.  
Perforating-machine. E. De Kleist. No. 944,790; Dec. 28; Sp. p. 5946; Gaz. vol. 149; p. 1025.  
Perforating mechanism. C. A. Sturtevant. No. 911,548; Feb. 2; Sp. p. 994; Gaz. vol. 139; p. 173.  
Perforator. E. L. Krag. No. 926,261; June 29; Sp. p. 6657; Gaz. vol. 143; p. 1175.  
Perforator. W. Flett. No. 927,846; July 13; Sp. p. 2388; Gaz. vol. 144; p. 408.  
Perforator. J. F. Jewart. No. 932,472; Aug. 31; Sp. p. 6014; Gaz. vol. 145; p. 1044.  
Perforator, Casing-. C. E. Lapp and W. H. Harrison. No. 939,917; Nov. 9; Sp. p. 3233; Gaz. vol. 148; p. 532.  
Perforator, Tape-. H. Angel. No. 944,123; Dec. 21; Sp. p. 4501; Gaz. vol. 149; p. 773.  
Permanent mold. J. H. Shaw. No. 926,965; July 6; Sp. p. 539; Gaz. vol. 144; p. 88.  
Permutation-lock. F. J. Burns. No. 910,783; Jan. 26; Sp. p. 4817; Gaz. vol. 138; p. 871.  
Permutation-lock. J. R. Maxfield. No. 911,144; Feb. 2; Sp. p. 242; Gaz. vol. 139; p. 43.  
Permutation-lock. G. C. Martin. No. 915,199; Mar. 16; Sp. p. 3214; Gaz. vol. 140; p. 561.  
Permutation-lock. E. E. Quaintance. No. 917,133; Apr. 6; Sp. p. 357; Gaz. vol. 141; p. 62.  
Permutation-lock. J. T. Whalen. No. 923,743; June 1; Sp. p. 1376; Gaz. vol. 143; p. 215.  
Permutation-lock. P. Ziron. No. 924,871; June 15; Sp. p. 3818; Gaz. vol. 143; p. 653.  
Permutation-lock. M. Spinello. No. 926,221; June 29; Sp. p. 6584; Gaz. vol. 143; p. 1163.  
Permutation-lock. W. Erhardt. No. 931,287; Aug. 17; Sp. p. 3534; Gaz. vol. 145; p. 610.  
Permutation-lock. J. W. Estes. No. 933,968; Sept. 14; Sp. p. 2050; Gaz. vol. 146; p. 337.  
Permutation-lock. O. Anderson. No. 939,887; Nov. 9; Sp. p. 3154; Gaz. vol. 148; p. 520.  
Permutation-lock. J. E. Le Myre. No. 940,936; Nov. 23; Sp. p. 5510; Gaz. vol. 148; p. 933.  
Permutation-lock. G. H. Hamilton. No. 942,553; Dec. 7; Sp. p. 1097; Gaz. vol. 149; p. 178.  
Peroxide of hydrogen, Electrolytically producing. G. Teichner. No. 916,900; Mar. 30; Sp. p. 6539; Gaz. vol. 140; p. 1167.  
Perspectograph. R. Göhring. No. 915,426; Mar. 16; Sp. p. 3647; Gaz. vol. 140; p. 635.  
Petroleum and compressed-air motor, Reversible. M. Berliet. No. 929,540; July 27; Sp. p. 5853; Gaz. vol. 144; p. 1029.  
Petroleum and its distillates, Purifying crude. L. Edeleanu. No. 911,553; Feb. 2; Sp. p. 1015; Gaz. vol. 139; p. 175.  
Petroleum-burner. A. Pecot. No. 927,592; July 13; Sp. p. 1828; Gaz. vol. 144; p. 325.  
Petroleum-burner. W. H. Eaton. No. 940,305; Nov. 16; Sp. p. 4131; Gaz. vol. 148; p. 697.  
Petroleum-burner for incandescent lights. E. Holy. No. 929,948; Aug. 3; Sp. p. 692; Gaz. vol. 145; p. 110.  
Petroleum residues, Treating and utilizing. V. Kridlo. No. 931,772; Aug. 24; Sp. p. 4556; Gaz. vol. 145; p. 791.  
Petroleum sludge, Separating acid from. J. L. Gray. No. 923,429; June 1; Sp. p. 716; Gaz. vol. 143; p. 105.  
Petroleum sludge to produce pitch, asphalt, &c., Treating. J. L. Gray. No. 923,427; June 1; Sp. p. 712; Gaz. vol. 143; p. 105.  
Petroleum sludge, Treating. J. L. Gray. No. 923,428; June 1; Sp. p. 714; Gaz. vol. 143; p. 105.  
Phase adjustment. W. E. Sumpner. No. 940,747; Nov. 23; Sp. p. 5110; Gaz. vol. 148; p. 871.  
Phenacetin and product, Treating. A. G. Meyer. No. 912,869; Feb. 16; Sp. p. 3827; Gaz. vol. 139; p. 674.  
Phenol and formaldehyde and making the same, Condensation product of. L. H. Baekeland. No. 942,700; Dec. 7; Sp. p. 1379; Gaz. vol. 149; p. 226.  
Phenol and formaldehyde, Making insoluble products of. L. H. Baekeland. No. 942,699; Dec. 7; Sp. p. 1377; Gaz. vol. 149; p. 226.  
Phenol halogen phthalein compound. W. R. Orndorff. No. 939,075; Nov. 2; Sp. p. 1331; Gaz. vol. 148; p. 216.  
Phonic apparatus. T. H. Macdonald. No. 942,089; Dec. 7; Sp. p. 113; Gaz. vol. 149; p. 19.  
Phonogram. F. C. Applegate. No. 939,120; Nov. 2; Sp. p. 1422; Gaz. vol. 148; p. 232.  
Phonograms, Making. F. C. Applegate. No. 939,119; Nov. 2; Sp. p. 1421; Gaz. vol. 148; p. 231.  
Phonograph. R. C. Farrington. No. 916,287; Mar. 23; Sp. p. 5331; Gaz. vol. 140; p. 944.  
Phonograph. H. Schröder. No. 919,252; Apr. 20; Sp. p. 4897; Gaz. vol. 141; p. 822.  
Phonograph. C. F. Hamilton. No. 920,134; May 4; Sp. p. 89; Gaz. vol. 142; p. 13.  
Phonograph. J. C. Nuernberg. No. 930,683; Aug. 10; Sp. p. 2170; Gaz. vol. 145; p. 379.  
Phonograph. P. Weber. No. 932,200; Aug. 24; Sp. p. 5472; Gaz. vol. 145; p. 932.  
Phonograph. P. Weber. No. 932,201; Aug. 24; Sp. p. 5474; Gaz. vol. 145; p. 932.  
Phonograph. P. Weber. No. 932,202; Aug. 24; Sp. p. 5476; Gaz. vol. 145; p. 933.  
Phonograph. H. Wolke. No. 932,222; Aug. 24; Sp. p. 5516; Gaz. vol. 145; p. 939.  
Phonograph. J. F. Ott. No. 932,314; Aug. 24; Sp. p. 5680; Gaz. vol. 145; p. 969.  
Phonograph. J. F. Ott. No. 936,265; Oct. 5; Sp. p. 1366; Gaz. vol. 147; p. 210.  
Phonograph. P. Weber. No. 936,266; Oct. 5; Sp. p. 1368; Gaz. vol. 147; p. 211.  
Phonograph. H. Wolke. No. 936,268; Oct. 5; Sp. p. 1372; Gaz. vol. 147; p. 211.



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 Phonograph. J. F. Ott. No. 936,271; Oct. 5; Sp. p. 1378; Gaz. vol. 147; p. 213.  
 Phonograph. J. F. Ott. No. 936,272; Oct. 5; Sp. p. 1380; Gaz. vol. 147; p. 213.  
 Phonograph. P. Weber. No. 937,905; Oct. 26; Sp. p. 4805; Gaz. vol. 147; p. 831.  
 Phonograph. F. E. Holman. No. 939,692; Nov. 9; Sp. p. 2752; Gaz. vol. 148; p. 454.  
 Phonograph. P. Weber. No. 942,475; Dec. 7; Sp. p. 939; Gaz. vol. 149; p. 151.  
 Phonograph. H. S. Mills. No. 943,313; Dec. 14; Sp. p. 2750; Gaz. vol. 149; p. 465.  
 Phonograph attachment. H. E. Woods. No. 918,111; Apr. 13; Sp. p. 2343; Gaz. vol. 141; p. 419.  
 Phonograph attachment. J. Georlig. No. 936,115; Oct. 5; Sp. p. 1082; Gaz. vol. 147; p. 105.  
 Phonograph attachment. L. H. Hays. No. 936,534; Oct. 12; Sp. p. 1977; Gaz. vol. 147; p. 326.  
 Phonograph, &c., attachment. G. F. Perrenot. No. 937,641; Oct. 19; Sp. p. 4253; Gaz. vol. 147; p. 725.  
 Phonograph attachment. H. A. Smith. No. 941,546; Nov. 30; Sp. p. 6828; Gaz. vol. 148; p. 1156.  
 Phonograph, Automatic multiple-record. J. I. Gemmill. No. 925,430; June 15; Sp. p. 4891; Gaz. vol. 143; p. 835.  
 Phonograph automatic stop. C. A. Rumble. No. 932,061; Aug. 24; Sp. p. 5192; Gaz. vol. 145; p. 886.  
 Phonograph driving mechanism. E. L. Aiken. No. 917,514; Apr. 6; Sp. p. 1091; Gaz. vol. 141; p. 190.  
 Phonograph-horn. A. T. E. Wangemann. No. 913,930; Mar. 2; Sp. p. 563; Gaz. vol. 140; p. 91.  
 Phonograph-horn. G. W. Duncan. No. 914,934; Mar. 9; Sp. p. 2665; Gaz. vol. 140; p. 447.  
 Phonograph-horn. F. M. Murphy. No. 915,874; Mar. 23; Sp. p. 4565; Gaz. vol. 140; p. 811.  
 Phonograph-horn. G. Benjamin and W. Handley. No. 917,404; Apr. 6; Sp. p. 902; Gaz. vol. 141; p. 156.  
 Phonograph-horn. P. B. T. Berner. No. 926,235; June 29; Sp. p. 6615; Gaz. vol. 143; p. 1167.  
 Phonograph horn attachment. G. Shephard. No. 912,039; Feb. 9; Sp. p. 2076; Gaz. vol. 139; p. 361.  
 Phonograph-horns, Means for supporting. H. H. Turner and H. M. R. Glover. No. 943,492; Dec. 14; Sp. p. 3125; Gaz. vol. 149; p. 527.  
 Phonograph-machine. H. S. Mills. No. 929,775; Aug. 3; Sp. p. 301; Gaz. vol. 145; p. 52.  
 Phonograph-machine. T. J. Blanch. No. 935,773; Oct. 5; Sp. p. 336; Gaz. vol. 147; p. 51.  
 Phonograph, Magazine-. C. Reinhardt. No. 909,455; Jan. 12; Sp. p. 2065; Gaz. vol. 138; p. 367.  
 Phonograph-needle receptacle. W. E. Watson. No. 931,103; Aug. 17; Sp. p. 3112; Gaz. vol. 145; p. 545.  
 Phonograph-record. H. Schröder. No. 909,461; Jan. 12; Sp. p. 2080; Gaz. vol. 138; p. 369.  
 Phonograph-record box. J. R. Harbeck. No. 915,764; Mar. 23; Sp. p. 4371; Gaz. vol. 140; p. 776.  
 Phonograph-record cabinet. W. C. Nickerson. No. 924,493; June 8; Sp. p. 3013; Gaz. vol. 143; p. 491.  
 Phonograph-record case. W. A. Shafer. No. 916,795; Mar. 30; Sp. p. 6337; Gaz. vol. 140; p. 1132.  
 Phonograph-record composition. J. W. Aylsworth. No. 920,245; May 4; Sp. p. 323; Gaz. vol. 142; p. 50.  
 Phonograph record-disks, Album for. B. Hirsch. No. 909,410; Jan. 12; Sp. p. 1975; Gaz. vol. 138; p. 352.  
 Phonograph-record holder. O. Laroussini. No. 926,659; June 29; Sp. p. 7401; Gaz. vol. 143; p. 1305.  
 Phonograph-record tray. J. N. Blackman. No. 944,657; Dec. 28; Sp. p. 5658; Gaz. vol. 149; p. 982.  
 Phonograph-records and indexes combined therewith, Cabinet for holding disk. W. A. Hobbs. No. 931,426; Aug. 17; Sp. p. 3810; Gaz. vol. 145; p. 658.  
 Phonograph-records and other flat articles, Holder or case for. A. C. Hafely. No. 931,600; Aug. 17; Sp. p. 4130; Gaz. vol. 145; p. 711.  
 Phonograph-records, Apparatus for making duplicate. J. W. Aylsworth. No. 936,275; Oct. 5; Sp. p. 1386; Gaz. vol. 147; p. 214.  
 Phonograph-records, Apparatus for making duplicate. J. W. Aylsworth. No. 940,631; Nov. 16; Sp. p. 4843; Gaz. vol. 148; p. 806.  
 Phonograph-records, Holder and index for. R. E. Alexander and M. J. Knickerbocker. No. 938,809; Nov. 2; Sp. p. 773; Gaz. vol. 148; p. 124.  
 Phonograph-records, Mandrel for. W. C. Runge. No. 943,568; Dec. 14; Sp. p. 3283; Gaz. vol. 149; p. 553.  
 Phonograph-records, Turning and smoothing device for. F. Able, Jr. No. 928,015; July 13; Sp. p. 2724; Gaz. vol. 144; p. 464.  
 Phonograph repeating mechanism. E. Gilbert. No. 911,491; Feb. 2; Sp. p. 878; Gaz. vol. 139; p. 155.  
 Phonograph starting and stopping device. W. W. Rosenfield. No. 918,915; Apr. 20; Sp. p. 4078; Gaz. vol. 141; p. 715.  
 Phonograph-stop. F. H. Andrews. No. 924,527; June 8; Sp. p. 3074; Gaz. vol. 143; p. 502.  
 Phonographs and other machines, Feed mechanism for. T. A. Edison. No. 936,267; Oct. 5; Sp. p. 1370; Gaz. vol. 147; p. 211.  
 Phonographs, Feed mechanism for. J. F. Ott. No. 936,270; Oct. 5; Sp. p. 1376; Gaz. vol. 147; p. 212.  
 Phonographs, Feeding mechanism for. J. F. Ott. No. 936,273; Oct. 5; Sp. p. 1381; Gaz. vol. 147; p. 213.  
 Phonographs, Feeding mechanism for. H. Wolke. No. 936,274; Oct. 5; Sp. p. 1384; Gaz. vol. 147; p. 214.  
 Phonographs, &c., Sound-modifier for. J. Pearson. No. 929,482; July 27; Sp. p. 5754; Gaz. vol. 144; p. 1010.  
 Phonographic needle. A. J. Smith. No. 940,486; Nov. 16; Sp. p. 4533; Gaz. vol. 148; p. 759.  
 Phonographic recording and reproducing machine. T. A. Edison. No. 939,992; Nov. 16; Sp. p. 3405; Gaz. vol. 148; p. 586.  
 Phonographic reproducer. R. B. Smith. No. 936,826; Oct. 12; Sp. p. 2554; Gaz. vol. 147; p. 427.  
 Phonography. I. Kitsee. No. 920,752; May 4; Sp. p. 1330; Gaz. vol. 142; p. 216.  
 Phorometer. J. E. Cogan. No. 938,463; Nov. 2; Sp. p. 21; Gaz. vol. 148; p. 6.  
 Photo-exposure meter. S. Pratt. No. 910,230; Jan. 19; Sp. p. 3642; Gaz. vol. 138; p. 662.  
 Photo-smoke arrester. W. I. McCausland. No. 920,370; May 4; Sp. p. 570; Gaz. vol. 142; p. 91.  
 Photograph holder and exhibitor. E. Halpern. No. 918,040; Apr. 13; Sp. p. 2198; Gaz. vol. 141; p. 395.  
 Photograph-mount, Postal-card. G. N. Pifer. No. 922,035; May 18; Sp. p. 4008; Gaz. vol. 142; p. 700.  
 Photograph-print washer. L. M. Sherow. No. 926,144; June 29; Sp. p. 6398; Gaz. vol. 143; p. 1136.  
 Photograph-stop. P. Bastian. No. 916,973; Apr. 6; Sp. p. 23; Gaz. vol. 141; p. 8.  
 Photographs, Method and means of making panoramic. E. N. White. No. 928,724; July 20; Sp. p. 4193; Gaz. vol. 144; p. 731.  
 Photographer's dark room. V. Sekinger. No. 908,892; Jan. 5; Sp. p. 951; Gaz. vol. 138; p. 152.  
 Photographer's light-refractor. W. C. Farrand. No. 936,707; Oct. 12; Sp. p. 2331; Gaz. vol. 147; p. 387.  
 Photographer's range-finder. G. B. Brayton. No. 940,504; Nov. 16; Sp. p. 4580; Gaz. vol. 148; p. 764.  
 Photographic and printing purposes, Optical screen for. J. H. Smith. No. 914,197; Mar. 2; Sp. p. 1166; Gaz. vol. 140; p. 182.  
 Photographic apparatus. H. Hübscher. No. 924,465; June 8; Sp. p. 2948; Gaz. vol. 143; p. 482.  
 Photographic apparatus. H. B. Jordan. No. 936,323; Oct. 12; Sp. p. 1485; Gaz. vol. 147; p. 257.  
 Photographic apparatus. J. J. Kelly and J. F. Treerdell. No. 937,309; Oct. 19; Sp. p. 3532; Gaz. vol. 147; p. 614.  
 Photographic apparatus and dark room combined, Portable. J. B. Willyerd. No. 929,807; Aug. 3; Sp. p. 379; Gaz. vol. 145; p. 63.  
 Photographic apparatus and dark room combined, Portable. J. B. Willyerd. No. 929,808; Aug. 3; Sp. p. 381; Gaz. vol. 145; p. 63.  
 Photographic apparatus and dark room combined, Portable. J. B. Willyerd. No. 929,809; Aug. 3; Sp. p. 384; Gaz. vol. 145; p. 64.  
 Photographic appliance. G. F. Fraley. No. 931,050; Aug. 17; Sp. p. 2995; Gaz. vol. 145; p. 528.  
 Photographic chair. G. F. Goullee. No. 918,666; Apr. 20; Sp. p. 3542; Gaz. vol. 141; p. 631.  
 Photographic change-box. P. Kaemmerer. No. 926,495; June 29; Sp. p. 7087; Gaz. vol. 143; p. 1250.  
 Photographic developing apparatus. D. James. No. 909,090; Jan. 5; Sp. p. 1346; Gaz. vol. 138; p. 216.  
 Photographic developing apparatus. D. James. No. 909,091; Jan. 5; Sp. p. 1348; Gaz. vol. 138; p. 216.  
 Photographic developing apparatus. C. D. Waldron. No. 926,153; June 29; Sp. p. 6425; Gaz. vol. 143; p. 1139.  
 Photographic dry-plate. L. Husson. No. 922,908; May 25; Sp. p. 5808; Gaz. vol. 142; p. 1013.  
 Photographic enlarging apparatus. M. Schütze. No. 910,322; Jan. 19; Sp. p. 3868; Gaz. vol. 138; p. 696.  
 Photographic-film-developing apparatus. R. Kroedel. No. 917,078; Apr. 6; Sp. p. 233; Gaz. vol. 141; p. 43.  
 Photographic-film-developing-frame. E. B. Hansbury. No. 917,940; Apr. 13; Sp. p. 1974; Gaz. vol. 141; p. 359.  
 Photographic-film-drying device. A. M. Banks. No. 923,481; June 1; Sp. p. 823; Gaz. vol. 143; p. 124.  
 Photographic-film pack. J. A. Robertson. No. 917,136; Apr. 6; Sp. p. 368; Gaz. vol. 141; p. 64.  
 Photographic-film pack, Daylight-loading. J. E. Thornton. No. 931,525; Aug. 17; Sp. p. 3996; Gaz. vol. 145; p. 689.  
 Photographic-film packs, Adapter for. H. M. R. Glover. No. 928,379; July 20; Sp. p. 3504; Gaz. vol. 144; p. 619.  
 Photographic-film package, Flat-form. A. J. Finkle. No. 910,052; Jan. 19; Sp. p. 3260; Gaz. vol. 138; p. 601.  
 Photographic-film-roll spool. W. F. C. Kelly. No. 916,325; Mar. 23; Sp. p. 5398; Gaz. vol. 140; p. 958.  
 Photographic films, Manufacture of. J. H. Smith. No. 923,589; June 1; Sp. p. 1074; Gaz. vol. 143; p. 164.  
 Photographic filter. E. Wandersleb. No. 926,523; June 29; Sp. p. 7134; Gaz. vol. 143; p. 1200.  
 Photographic flash-light apparatus. S. Roessner. No. 927,876; July 13; Sp. p. 2444; Gaz. vol. 144; p. 418.  
 Photographic light-diffusing apparatus. N. Losey. No. 923,542; June 1; Sp. p. 945; Gaz. vol. 143; p. 147.  
 Photographic paper. Y. Schwartz. No. 916,616; Mar. 30; Sp. p. 6029; Gaz. vol. 140; p. 1080.  
 Photographic paper-printing machine. E. N. Kerr. No. 920,582; May 4; Sp. p. 986; Gaz. vol. 142; p. 161.  
 Photographic paper, Treating. E. A. Cunningham. No. 917,418; Apr. 6; Sp. p. 922; Gaz. vol. 141; p. 160.  
 Photographic pictures, Projecting continuous. L. L. Thurstone. No. 943,326; Dec. 14; Sp. p. 2773; Gaz. vol. 149; p. 468.  
 Photographic-plate holder. I. Borsum. No. 916,911; Mar. 30; Sp. p. 6570; Gaz. vol. 140; p. 1171.  
 Photographic-plate holder. O. H. Talbott. No. 922,356; May 18; Sp. p. 4622; Gaz. vol. 142; p. 803.  
 Photographic-plate holder. J. Goddard. No. 925,895; June 22; Sp. p. 5894; Gaz. vol. 143; p. 1018.  
 Photographic plate or film, Flexible. M. Hansen. No. 928,914; July 20; Sp. p. 4582; Gaz. vol. 144; p. 797.  
 Photographic plates, Daylight holding-envelop for. O. N. Moore. No. 915,988; Mar. 23; Sp. p. 4790; Gaz. vol. 140; p. 847.



*Alphabetical list of inventions—Continued.*

- Photographic plates, Means for developing. R. E. De Lury. No. 920,835; May 4; Sp. p. 1502; Gaz. vol. 142; p. 242.
- Photographic posing device. F. W. C. Pohle. No. 908,800; Jan. 5; Sp. p. 767; Gaz. vol. 138; p. 121.
- Photographic pressure-printing frame. J. and H. Pritchard. No. 920,648; May 4; Sp. p. 1116; Gaz. vol. 142; p. 182.
- Photographic printer, Automatic. W. Fitterling. No. 910,122; Jan. 19; Sp. p. 3395; Gaz. vol. 138; p. 623.
- Photographic-printing apparatus. T. T. Sabroe. No. 915,044; Mar. 9; Sp. p. 2852; Gaz. vol. 140; p. 483.
- Photographic-printing apparatus. J. A. Dick. No. 916,119; Mar. 23; Sp. p. 5027; Gaz. vol. 140; p. 890.
- Photographic-printing apparatus. W. B. Conaway and C. L. Stevens. No. 918,509; Apr. 20; Sp. p. 3154; Gaz. vol. 141; p. 579.
- Photographic-printing cabinet. O. C. Courtright and A. D. Mika. No. 929,195; July 27; Sp. p. 5165; Gaz. vol. 144; p. 916.
- Photographic-printing device. C. J. Hillman. No. 920,138; May 4; Sp. p. 96; Gaz. vol. 142; p. 14.
- Photographic-printing frame. A. C. Hayden. No. 915,955; Mar. 23; Sp. p. 4717; Gaz. vol. 140; p. 837.
- Photographic prints, Compound for the treatment of. C. B. Waite. No. 930,578; Aug. 10; Sp. p. 1965; Gaz. vol. 145; p. 346.
- Photographic prints or the like, Washing apparatus for. H. J. Fritz. No. 932,265; Aug. 24; Sp. p. 5591; Gaz. vol. 145; p. 953.
- Photographic purposes, Portable dark room for. C. Burr and H. F. Thomas. No. 922,254; May 18; Sp. p. 4449; Gaz. vol. 142; p. 772.
- Photographic representations of structural designs, Producing. C. Clements. No. 910,990; Jan. 26; Sp. p. 5201; Gaz. vol. 138; p. 938.
- Photographic representations of structural designs, Producing. C. Clements. No. 927,116; July 6; Sp. p. 876; Gaz. vol. 144; p. 140.
- Photographic roller-blind shutter. J. E. Thornton. No. 924,947; June 15; Sp. p. 3966; Gaz. vol. 143; p. 678.
- Photographic shutter. W. F. Folmer. No. 932,381; Aug. 24; Sp. p. 5800; Gaz. vol. 145; p. 991.
- Photographic shutter. P. J. Marks. No. 932,485; Aug. 31; Sp. p. 6043; Gaz. vol. 145; p. 1049.
- Photographic shutter. C. F. J. Niss. No. 940,714; Nov. 23; Sp. p. 5030; Gaz. vol. 148; p. 859.
- Photographic developer. W. F. C. Kelly and J. A. Benthams. No. 935,115; Sept. 28; Sp. p. 4321; Gaz. vol. 146; p. 771.
- Photographic developer. W. F. C. Kelly. No. 935,156; Sept. 28; Sp. p. 4388; Gaz. vol. 146; p. 783.
- Photographic-film-developing machine. E. A. Taylor. No. 938,287; Oct. 26; Sp. p. 5619; Gaz. vol. 147; p. 960.
- Photographic-film roll. T. M. K. Overland. No. 937,262; Oct. 19; Sp. p. 3473; Gaz. vol. 147; p. 600.
- Photographic plate or film holder. F. Whitney. No. 937,129; Oct. 19; Sp. p. 3166; Gaz. vol. 147; p. 556.
- Photographic plates or films for different temperatures, Apparatus for determining relative times of development of. A. Watkins. No. 933,605; Sept. 7; Sp. p. 1323; Gaz. vol. 146; p. 195.
- Photographic shutter. J. E. Thornton. No. 934,581; Sept. 21; Sp. p. 3235; Gaz. vol. 146; p. 564.
- Photographic shutter. R. Kroedel. No. 937,248; Oct. 19; Sp. p. 3436; Gaz. vol. 147; p. 594.
- Photographic surface, Self-developing. W. F. C. Kelly and J. A. Benthams. No. 917,310; Apr. 6; Sp. p. 730; Gaz. vol. 141; p. 124.
- Photographic timing apparatus. P. H. Wheeler. No. 912,516; Feb. 16; Sp. p. 3085; Gaz. vol. 139; p. 555.
- Photographic washing-box. N. C. Merrill. No. 934,331; Sept. 14; Sp. p. 2753; Gaz. vol. 146; p. 457.
- Photographic washing-tank. W. A. Amon. No. 926,380; June 29; Sp. p. 6885; Gaz. vol. 143; p. 1212.
- Photographing-machine. F. M. Holmes. No. 930,378; Aug. 10; Sp. p. 1525; Gaz. vol. 145; p. 277.
- Photographing-machine Automatic. J. F. Raders. No. 931,485; Aug. 17; Sp. p. 3925; Gaz. vol. 145; p. 677.
- Photography. F. W. Donisthorpe. No. 923,030; May 25; Sp. p. 6041; Gaz. vol. 142; p. 1052.
- Photography. J. J. Johnson. No. 935,760; Oct. 5; Sp. p. 295; Gaz. vol. 147; p. 47.
- Photography, Color. E. Clifton. No. 923,019; May 25; Sp. p. 6018; Gaz. vol. 142; p. 1048.
- Photography, Film-pack for three-color. F. E. Ives. No. 927,244; July 6; Sp. p. 1122; Gaz. vol. 144; p. 182.
- Photometer. F. E. Ives. No. 914,282; Mar. 2; Sp. p. 1335; Gaz. vol. 140; p. 207.
- Photometer. W. Herrmann. No. 922,583; May 25; Sp. p. 5117; Gaz. vol. 142; p. 908.
- Photomicrographic apparatus. R. L. Watkins and R. Head. No. 921,317; May 11; Sp. p. 2502; Gaz. vol. 142; p. 435.
- Photoplanograph. C. J. Ellis. No. 929,757; Aug. 3; Sp. p. 262; Gaz. vol. 145; p. 45.
- Photoprinting, Device for timing. R. E. Scharz. No. 929,987; Aug. 3; Sp. p. 778; Gaz. vol. 145; p. 124.
- Photoprints and similar articles, Machine for mounting. J. Ranz. No. 911,070; Feb. 2; Sp. p. 91; Gaz. vol. 139; p. 17.
- Pianissimo device. J. D. Pease. No. 919,632; Apr. 27; Sp. p. 5739; Gaz. vol. 141; p. 987.
- Pianissimo device. W. G. Betz. No. 922,247; May 18; Sp. p. 4431; Gaz. vol. 142; p. 769.
- Pianissimo device. G. A. Wheeler. No. 922,828; May 25; Sp. p. 5635; Gaz. vol. 142; p. 987.
- Piano. C. W. Zinco. No. 910,632; Jan. 26; Sp. p. 4523; Gaz. vol. 138; p. 824.
- Piano. P. Duffy. No. 913,711; Mar. 2; Sp. p. 72; Gaz. vol. 140; p. 13.
- Piano. F. C. Ott. No. 928,277; July 20; Sp. p. 3310; Gaz. vol. 144; p. 584.
- Piano. F. Leola. No. 930,869; Aug. 10; Sp. p. 2560; Gaz. vol. 145; p. 441.
- Piano-action. R. Lohr and C. Berglund. No. 912,008; Feb. 9; Sp. p. 2024; Gaz. vol. 139; p. 352.
- Piano-action. L. N. Soper. No. 924,394; June 8; Sp. p. 2825; Gaz. vol. 143; p. 460.
- Piano-action. A. D. Dimick. No. 932,685; Aug. 31; Sp. p. 6478; Gaz. vol. 145; p. 1116.
- Piano-action. A. D. Dimick. No. 933,024; Aug. 31; Sp. p. 7140; Gaz. vol. 145; p. 1227.
- Piano-action. G. A. Wheeler. No. 937,560; Oct. 19; Sp. p. 4110; Gaz. vol. 147; p. 699.
- Piano-action. F. Meyer. No. 940,264; Nov. 16; Sp. p. 4014; Gaz. vol. 148; p. 683.
- Piano-actions, Tool for applying bridges to. A. G. Crawford. No. 938,826; Nov. 2; Sp. p. 811; Gaz. vol. 148; p. 130.
- Piano actuating mechanism, Autopneumatic. R. H. Fischer. No. 913,002; Feb. 23; Sp. p. 4093; Gaz. vol. 139; p. 743.
- Piano-agraffe. L. Avisus. (Reissue.) No. 12,938; Apr. 13; Sp. p. 3106; Gaz. vol. 141; p. 543.
- Piano and organ box. A. W. Laudon. No. 908,779; Jan. 5; Sp. p. 732; Gaz. vol. 138; p. 115.
- Piano attachment, Automatic. J. Sampere. No. 940,072; Nov. 16; Sp. p. 3611; Gaz. vol. 148; p. 615.
- Piano Automatic. F. R. Goolman. No. 917,288; Apr. 6; Sp. p. 674; Gaz. vol. 141; p. 115.
- Piano, Automatic. L. Griseri. No. 919,002; Apr. 20; Sp. p. 4254; Gaz. vol. 141; p. 743.
- Piano, Automatic. H. Meyer. No. 934,201; Sept. 14; Sp. p. 2512; Gaz. vol. 146; p. 414.
- Piano automatic music-playing attachment. I. B. Smith. No. 913,242; Feb. 23; Sp. p. 4583; Gaz. vol. 139; p. 822.
- Piano, Automatic playing-. A. G. Gulbransen. No. 913,378; Feb. 23; Sp. p. 4852; Gaz. vol. 139; p. 869.
- Piano, Automatic playing-. L. M. French and W. M. O'Brien. No. 931,192; Aug. 17; Sp. p. 3308; Gaz. vol. 145; p. 576.
- Piano, Automatic pneumatic. A. F. Larson and K. O. Ostergren. No. 915,366; Mar. 16; Sp. p. 3523; Gaz. vol. 140; p. 614.
- Piano-bench. J. N. Wheeler. No. 918,240; Apr. 13; Sp. p. 2610; Gaz. vol. 141; p. 463.
- Piano-bench. A. B. Hanson. No. 940,804; Nov. 23; Sp. p. 5244; Gaz. vol. 148; p. 890.
- Piano-bench, Adjustable. A. A. Duff. No. 919,559; Apr. 27; Sp. p. 5596; Gaz. vol. 141; p. 961.
- Piano-case. C. H. Hubbell. No. 944,036; Dec. 21; Sp. p. 4312; Gaz. vol. 149; p. 743.
- Piano case, Upright-. C. Mayer. No. 940,340; Nov. 16; Sp. p. 4206; Gaz. vol. 148; p. 709.
- Piano fall-board. J. R. A. Lang. No. 924,247; June 8; Sp. p. 2526; Gaz. vol. 143; p. 411.
- Piano-hammer. J. W. E. Laker. No. 912,860; Feb. 16; Sp. p. 3813; Gaz. vol. 139; p. 672.
- Piano-hammer heads, Repair attachment for. R. R. Bodé. No. 934,654; Sept. 21; Sp. p. 3391; Gaz. vol. 146; p. 591.
- Piano, Mechanical. N. D. Hosley. No. 932,705; Aug. 31; Sp. p. 6518; Gaz. vol. 145; p. 1123.
- Piano mechanism, Self-playing-. A. F. Larson and K. O. Ostergren. No. 914,054; Mar. 2; Sp. p. 861; Gaz. vol. 140; p. 133.
- Piano-pedal and making the same. A. L. Ebbels. No. 923,036; May 25; Sp. p. 6058; Gaz. vol. 142; p. 1054.
- Piano pedal, Automatic-. J. W. Darley, Jr. No. 936,763; Oct. 12; Sp. p. 2437; Gaz. vol. 147; p. 405.
- Piano-pedal, Auxiliary. J. Virgillito. No. 931,662; Aug. 17; Sp. p. 4280; Gaz. vol. 145; p. 731.
- Piano-pedal connection, Adjustable. H. Meyer. No. 939,053; Nov. 2; Sp. p. 1291; Gaz. vol. 148; p. 208.
- Piano-pedal mounting. H. Sander. No. 909,683; Jan. 12; Sp. p. 2515; Gaz. vol. 138; p. 446.
- Piano-player action, Pneumatic. G. M. de Julio. No. 916,713; Mar. 30; Sp. p. 6192; Gaz. vol. 140; p. 1109.
- Piano-player door. R. Glossa. No. 931,752; Aug. 24; Sp. p. 4509; Gaz. vol. 145; p. 784.
- Piano-player, Electropneumatic. A. R. Trist. No. 941,432; Nov. 30; Sp. p. 6602; Gaz. vol. 148; p. 1119.
- Piano-player, Mechanical. H. T. Logan. No. 910,932; Jan. 26; Sp. p. 5098; Gaz. vol. 138; p. 919.
- Piano-players, Adjustable tracker for. O. F. Hintz. No. 920,571; May 4; Sp. p. 968; Gaz. vol. 142; p. 157.
- Piano-players, Apparatus for producing perforated records for automatic. H. P. Ball. No. 938,452; Oct. 26; Sp. p. 6001; Gaz. vol. 147; p. 1017.
- Piano-players, Pedal for. C. F. Jones. No. 925,192; June 15; Sp. p. 4461; Gaz. vol. 143; p. 761.
- Piano-players, Pneumatic for automatic. H. M. Brod. No. 914,549; Mar. 9; Sp. p. 1884; Gaz. vol. 140; p. 321.
- Piano playing and recording attachment, Combined electrical. G. H. Davis. No. 923,147; June 1; Sp. p. 53; Gaz. vol. 143; p. 9.
- Piano-playing mechanism, Pneumatic. G. P. Brand. No. 928,102; July 13; Sp. p. 2885; Gaz. vol. 144; p. 493.
- Piano-playing mechanisms, Expression device for pneumatic. J. Wieser. No. 929,740; Aug. 3; Sp. p. 220; Gaz. vol. 145; p. 38.
- Piano, Pneumatic. A. Nordeen. No. 916,764; Mar. 30; Sp. p. 6276; Gaz. vol. 140; p. 1123.
- Piano, Pneumatic. A. Nordeen. No. 916,765; Mar. 30; Sp. p. 6279; Gaz. vol. 140; p. 1123.
- Piano, Pneumatically-operated. A. G. Gulbransen. No. 944,033; Dec. 21; Sp. p. 4305; Gaz. vol. 149; p. 742.
- Piano practice-muffler. E. J. Dawson. No. 912,294; Feb. 16; Sp. p. 2622; Gaz. vol. 139; p. 482.
- Piano, Self-playing. E. C. Miscock. No. 920,954; May 11; Sp. p. 1763; Gaz. vol. 142; p. 312.
- Piano, Self-playing. F. B. Long and E. A. Tappe. No. 936,788; Oct. 12; Sp. p. 2484; Gaz. vol. 147; p. 414.



*Alphabetical list of inventions—Continued.*

- Piano, Self-playing. E. B. Bartlett. No. 936,851; Oct. 12; Sp. p. 2613; Gaz. vol. 147; p. 435.
- Piano, Sostenuto. P. Soblik. No. 913,990; Mar. 2; Sp. p. 710; Gaz. vol. 140; p. 111.
- Piano sounding-board. A. Kriehoff. No. 910,828; Jan. 26; Sp. p. 4908; Gaz. vol. 138; p. 886.
- Piano sounding-board. F. B. Long. No. 936,789; Oct. 12; Sp. p. 2485; Gaz. vol. 147; p. 114.
- Piano-sounding-board press. E. C. Moses. No. 914,061; Mar. 2; Sp. p. 874; Gaz. vol. 140; p. 135.
- Piano tune-sheet attachment, Automatic. A. J. Hobart. No. 913,009; Feb. 23; Sp. p. 4108; Gaz. vol. 139; p. 745.
- Piano tuning-pin. J. F. Conover. No. 921,203; May 11; Sp. p. 2268; Gaz. vol. 142; p. 398.
- Piano tuning-pin. F. Sack and F. A. Tyler. No. 941,730; Nov. 30; Sp. p. 7221; Gaz. vol. 148; p. 1218.
- Piano valve mechanism, Autopneumatic. J. Skubis. No. 909,242; Jan. 12; Sp. p. 1662; Gaz. vol. 138; p. 299.
- Piano-violin. J. Bajde. No. 939,786; Nov. 9; Sp. p. 2951; Gaz. vol. 148; p. 456.
- Piano-violins, Endless bow for. A. Zollinger. No. 918,637; Apr. 20; Sp. p. 3445; Gaz. vol. 141; p. 621.
- Piano, Zither-. J. A. Boehringer. No. 917,994; Apr. 13; Sp. p. 2110; Gaz. vol. 141; p. 379.
- Piano, Zither-. H. F. Schenuit. No. 933,670; Sept. 7; Sp. p. 1437; Gaz. vol. 146; p. 216.
- Pianos, Drum and cymbal attachment for autopneumatic. J. Wieser. No. 932,213; Aug. 24; Sp. p. 5493; Gaz. vol. 145; p. 935.
- Pianos, Means for preventing interference in assembling self-playing. E. C. Hiscock. No. 913,137; Feb. 23; Sp. p. 4363; Gaz. vol. 139; p. 788.
- Pianos, Repeating-action for grand. F. A. Wessell, H. A. Nickel, and A. L. Wessell. No. 939,362; Nov. 9; Sp. p. 2023; Gaz. vol. 148; p. 342.
- Pianos, Rewinding mechanism for pneumatic. A. Nordeen. No. 925,130; June 15; Sp. p. 4336; Gaz. vol. 143; p. 740.
- Pianos, Sostenuto attachment for. E. Peterson. No. 939,309; Nov. 9; Sp. p. 1905; Gaz. vol. 148; p. 325.
- Pianos, Tracker-board mechanism for pneumatically-operated. A. G. Gulbrandsen. No. 929,301; July 27; Sp. p. 5406; Gaz. vol. 144; p. 951.
- Pianos, Xylophone attachment for. J. Wieser. No. 932,212; Aug. 24; Sp. p. 5491; Gaz. vol. 145; p. 935.
- Pick. J. L. Gill and C. W. Gates. No. 935,253; Sept. 28; Sp. p. 4581; Gaz. vol. 146; p. 815.
- Pick. C. H. Blow. No. 938,955; Nov. 2; Sp. p. 1105; Gaz. vol. 148; p. 176.
- Pick and comb, Combined. J. Wels. No. 914,541; Mar. 9; Sp. p. 1873; Gaz. vol. 140; p. 319.
- Picker: See Berry-picker; Cotton-picker; Fruit-picker; Grape-picker; Loom-picker; Peanut-picker; Potato-picker; Poultry-picker; Slate-picker.
- Picker-check. D. Cormier. No. 918,827; Apr. 20; Sp. p. 3884; Gaz. vol. 141; p. 685.
- Picker-stem. H. S. Coburn. No. 936,236; Oct. 5; Sp. p. 1309; Gaz. vol. 147; p. 201.
- Picker-stick. H. Côté and R. C. Snow. No. 919,541; Apr. 27; Sp. p. 5559; Gaz. vol. 141; p. 955.
- Picker-stick attachment. W. D. Park. No. 938,694; Nov. 2; Sp. p. 545; Gaz. vol. 148; p. 85.
- Picking-motion. L. H. Landry. No. 943,027; Dec. 14; Sp. p. 2151; Gaz. vol. 149; p. 369.
- Pickle-cabinet and banana-display tree. I. N. Davis. No. 925,876; June 22; Sp. p. 5851; Gaz. vol. 143; p. 1012.
- Pickle-grading machine. L. L. Barnett. No. 932,749; Aug. 31; Sp. p. 6600; Gaz. vol. 145; p. 1138.
- Picture. C. W. Saalburg. No. 935,612; Sept. 28; Sp. p. 5319; Gaz. vol. 146; p. 933.
- Picture apparatus, Motion-. J. G. Meredith. No. 925,933; June 22; Sp. p. 5967; Gaz. vol. 143; p. 1030.
- Picture apparatus, Moving-. H. Voegel. No. 938,729; Nov. 2; Sp. p. 606; Gaz. vol. 148; p. 96.
- Picture apparatus, Safety shutter device for moving-. C. M. Stanley. No. 944,749; Dec. 28; Sp. p. 5876; Gaz. vol. 149; p. 1012.
- Picture device, Moving-. W. Hendrick. No. 930,073; Aug. 3; Sp. p. 948; Gaz. vol. 145; p. 153.
- Picture-exhibiting apparatus, Automatic. G. M. Guerrant. No. 926,939; July 6; Sp. p. 483; Gaz. vol. 144; p. 78.
- Picture-exhibiting apparatus, Moving-. J. E. Lockwood. No. 929,678; Aug. 3; Sp. p. 70; Gaz. vol. 145; p. 14.
- Picture-exhibiting apparatus, Moving-. F. L. Dyer and D. Holden. No. 937,779; Oct. 26; Sp. p. 4553; Gaz. vol. 147; p. 789.
- Picture-exhibiting machine. F. H. Richards. No. 938,895; Nov. 2; Sp. p. 969; Gaz. vol. 148; p. 153.
- Picture-film magazine. T. A. Nolan. No. 921,274; May 11; Sp. p. 2404; Gaz. vol. 142; p. 421.
- Picture-films, Fireproof magazine for. T. A. Nolan. No. 921,273; May 11; Sp. p. 2403; Gaz. vol. 142; p. 421.
- Picture films, Safety appliance for reeling moving-. N. H. Brown. No. 930,037; Aug. 3; Sp. p. 867; Gaz. vol. 145; p. 140.
- Picture-frame. C. R. Ulmen. No. 911,530; Feb. 2; Sp. p. 969; Gaz. vol. 139; p. 169.
- Picture-frame. J. B. Weber. No. 918,233; Apr. 13; Sp. p. 2585; Gaz. vol. 141; p. 460.
- Picture-frame. E. Oldenbusch. No. 943,367; Dec. 14; Sp. p. 2871; Gaz. vol. 149; p. 483.
- Picture-frame. R. C. Davison. No. 944,601; Dec. 28; Sp. p. 5555; Gaz. vol. 149; p. 963.
- Picture-frame fastening. J. M. Pullen. No. 908,608; Jan. 5; Sp. p. 375; Gaz. vol. 138; p. 60.
- Picture-frame-making machine. J. Mueller. No. 941,331; Nov. 23; Sp. p. 6349; Gaz. vol. 148; p. 1062.
- Picture-hanger. F. Greene. No. 913,125; Feb. 23; Sp. p. 4335; Gaz. vol. 139; p. 784.
- Picture-hanger, Adjustable. J. Degan. No. 939,226; Nov. 9; Sp. p. 1690; Gaz. vol. 148; p. 294.
- Picture hanging and removing device. S. E. G. Buchanan. No. 929,654; Aug. 3; Sp. p. 15; Gaz. vol. 145; p. 5.
- Picture-holder. L. A. Wildhack. No. 923,394; June 1; Sp. p. 651; Gaz. vol. 143; p. 94.
- Picture lanterns, Safety-shutter for moving-. W. N. Selig. No. 928,804; July 20; Sp. p. 4347; Gaz. vol. 144; p. 757.
- Picture-lifter. E. W. Wollam. No. 909,729; Jan. 12; Sp. p. 2620; Gaz. vol. 138; p. 463.
- Picture machine, Moving-. A. F. Hamack. No. 909,404; Jan. 12; Sp. p. 1965; Gaz. vol. 138; p. 350.
- Picture machine, Moving-. H. S. Mills. No. 916,751; Mar. 30; Sp. p. 6253; Gaz. vol. 140; p. 1119.
- Picture machine, Moving-. D. C. Woodworth. No. 917,697; Apr. 6; Sp. p. 1429; Gaz. vol. 141; p. 251.
- Picture machine, Moving-. H. S. Mills. No. 918,883; Apr. 20; Sp. p. 4009; Gaz. vol. 141; p. 704.
- Picture machine, Moving-. H. S. Mills. No. 918,884; Apr. 20; Sp. p. 4013; Gaz. vol. 141; p. 704.
- Picture machine, Moving-. J. A. Crosby. No. 925,159; June 15; Sp. p. 4392; Gaz. vol. 143; p. 750.
- Picture machine, Moving-. A. F. Hamack. No. 925,697; June 22; Sp. p. 5436; Gaz. vol. 143; p. 951.
- Picture machine, Moving-. J. J. Pink. No. 936,031; Oct. 5; Sp. p. 910; Gaz. vol. 147; p. 137.
- Picture machine, Moving-. B. A. Proctor. No. 937,174; Oct. 19; Sp. p. 3279; Gaz. vol. 147; p. 571.
- Picture-machine protective device. D. J. Bell. No. 916,410; Mar. 30; Sp. p. 5584; Gaz. vol. 140; p. 1012.
- Picture-machine reel, Moving-. C. R. Uebelmeisser. No. 913,328; Feb. 23; Sp. p. 4759; Gaz. vol. 139; p. 852.
- Picture-machines and phonographs, Synchronizing device for. P. Seiler. No. 939,337; Nov. 9; Sp. p. 1956; Gaz. vol. 148; p. 333.
- Picture machines and stereophones, Controlling switch for moving-. T. Taira. No. 939,110; Nov. 2; Sp. p. 1402; Gaz. vol. 148; p. 228.
- Picture machines, Automatic light-shield for moving-. D. C. Woodworth. No. 922,743; May 25; Sp. p. 5453; Gaz. vol. 142; p. 960.
- Picture machines, Cylinder-roller film-steadier for moving-. J. L. Hammond. No. 917,727; Apr. 6; Sp. p. 1491; Gaz. vol. 141; p. 261.
- Picture machines, Cylinder-roller film-steadier for moving-. J. L. Hammond. (Reissue). No. 12,985; July 6; Sp. p. 1566; Gaz. vol. 144; p. 257.
- Picture machines, Lens-shield for moving-. G. J. Gilmore. No. 925,326; June 15; Sp. p. 4698; Gaz. vol. 143; p. 802.
- Picture machines, Phonographic attachment for motion-. G. Hammett. No. 926,940; July 6; Sp. p. 485; Gaz. vol. 144; p. 79.
- Picture-molding. L. Cholet. No. 931,566; Aug. 17; Sp. p. 4073; Gaz. vol. 145; p. 701.
- Picture-mount. H. D. Sterrick. No. 912,329; Feb. 16; Sp. p. 2699; Gaz. vol. 139; p. 493.
- Picture mount, Movable-. H. O. Sauer. No. 942,465; Dec. 7; Sp. p. 917; Gaz. vol. 149; p. 148.
- Picture or similar-frame. W. S. Morton. No. 908,482; Jan. 5; Sp. p. 99; Gaz. vol. 138; p. 19.
- Picture-projecting apparatus. J. M. Kirby. No. 915,359; Mar. 16; Sp. p. 3509; Gaz. vol. 140; p. 612.
- Picture-puzzles, Adjustable frame for assembling. T. G. Strater. No. 932,512; Aug. 31; Sp. p. 6099; Gaz. vol. 145; p. 1058.
- Picture, Pyrotechnic. J. E. Weissenborn. No. 915,256; Mar. 16; Sp. p. 3316; Gaz. vol. 140; p. 579.
- Picture, Roll-up. M. E. Scott. No. 944,153; Dec. 21; Sp. p. 4556; Gaz. vol. 149; p. 782.
- Picture taking and projecting apparatus, Combined moving-. R. L. Watkins and R. Head. No. 926,970; July 6; Sp. p. 546; Gaz. vol. 144; p. 89.
- Pictures and like articles, Device for hanging. G. P. Leonard. No. 935,797; Oct. 5; Sp. p. 407; Gaz. vol. 147; p. 60.
- Pictures and other articles, Attachment applicable for supporting. A. Siddall. No. 921,472; May 11; Sp. p. 2835; Gaz. vol. 142; p. 487.
- Pictures, Apparatus for producing relieves after. G. Erdbrügger. No. 925,468; June 22; Sp. p. 4979; Gaz. vol. 143; p. 878.
- Pictures, Apparatus for viewing stereoscopic or other. J. Richard. No. 940,479; Nov. 16; Sp. p. 4518; Gaz. vol. 148; p. 756.
- Pictures, Electric process for making. B. D. Avis, Jr. No. 940,495; Nov. 16; Sp. p. 4553; Gaz. vol. 148; p. 762.
- Pictures, &c., Instrument for reproduction of. H. W. Frohne. No. 920,450; May 4; Sp. p. 730; Gaz. vol. 142; p. 116.
- Pictures, Making. C. W. Saalburg. No. 923,799; June 1; Sp. p. 1570; Gaz. vol. 143; p. 234.
- Pictures, pieces of music, and other performances, Apparatus for producing audible moving. F. E. Thormeyer. No. 941,211; Nov. 23; Sp. p. 6112; Gaz. vol. 148; p. 1025.
- Pictures, &c., to walls, Device for attaching. A. E. Albee. No. 920,236; May 4; Sp. p. 291; Gaz. vol. 142; p. 47.
- Pie and cake lifting and turning device. W. C. Thompson. No. 927,823; July 13; Sp. p. 2330; Gaz. vol. 144; p. 402.
- Pie-machine. O. Colborne. No. 927,490; July 13; Sp. p. 1612; Gaz. vol. 144; p. 290.
- Pie-plate lifter or holder. L. C. Lyzotte. No. 938,258; Oct. 26; Sp. p. 5565; Gaz. vol. 147; p. 951.
- Pie-trimmer. A. J. Perron. No. 941,337; Nov. 23; Sp. p. 6360; Gaz. vol. 148; p. 1064.
- Pie trimmer and crimper. E. G. Minneman. No. 912,709; Feb. 16; Sp. p. 3493; Gaz. vol. 139; p. 623.
- Pier, Submarine. G. W. Jackson. No. 916,159; Mar. 23; Sp. p. 5104; Gaz. vol. 140; p. 903.



*Alphabetical list of inventions—Continued.*

- Pigment and making the same. Green. F. F. Hunt. No. 932,864; Aug. 31; Sp. p. 6839; Gaz. vol. 145; p. 1174.  
 Pigments, Producing. A. Moffatt. No. 911,832; Feb. 9; Sp. p. 1581; Gaz. vol. 139; p. 294.  
 Pigments, Producing composite. A. Moffatt. No. 911,833; Feb. 9; Sp. p. 1582; Gaz. vol. 139; p. 294.  
 Pile. F. A. Noulet. No. 926,505; June 29; Sp. p. 7104; Gaz. vol. 143; p. 1254.  
 Pile. W. N. Louque. No. 942,653; Dec. 7; Sp. p. 1295; Gaz. vol. 149; p. 212.  
 Pile-covering. Concrete. J. S. Kimball. No. 927,357; July 6; Sp. p. 1312; Gaz. vol. 144; p. 217.  
 Pile-driver. O. Crosby. No. 911,574; Feb. 9; Sp. p. 1074; Gaz. vol. 139; p. 210.  
 Pile-driver. W. J. Hoy. No. 912,962; Feb. 16; Sp. p. 4005; Gaz. vol. 139; p. 703.  
 Pile-driver. R. E. Murphy. No. 915,785; Mar. 23; Sp. p. 4411; Gaz. vol. 140; p. 783.  
 Pile-driver. L. Aunes. No. 918,944; Apr. 20; Sp. p. 4143; Gaz. vol. 141; p. 724.  
 Pile-driver. E. J. Stone. No. 925,440; June 15; Sp. p. 4915; Gaz. vol. 143; p. 839.  
 Pile fabric, Woven. J. K. Dalkranian. No. 923,027; May 25; Sp. p. 6035; Gaz. vol. 142; p. 1051.  
 Pile fabric, Woven. W. A. Minifie. No. 923,682; June 1; Sp. p. 1254; Gaz. vol. 143; p. 194.  
 Pile fabric, Woven. H. Le Doux. No. 934,552; Sept. 21; Sp. p. 3177; Gaz. vol. 146; p. 554.  
 Pile or plush fabric. B. H. Gledhill. No. 912,666; Feb. 16; Sp. p. 3388; Gaz. vol. 139; p. 607.  
 Pile-protector. R. A. Cummings. No. 917,259; Apr. 6; Sp. p. 620; Gaz. vol. 141; p. 105.  
 Pile-protector. C. N. Hubbard. No. 934,176; Sept. 14; Sp. p. 2466; Gaz. vol. 146; p. 406.  
 Pile structure. H. C. Holmes. No. 920,061; Apr. 27; Sp. p. 6638; Gaz. vol. 141; p. 1129.  
 Piles, Making. G. A. Behrmd. No. 918,263; Apr. 13; Sp. p. 2653; Gaz. vol. 141; p. 470.  
 Piling. W. Neilson. No. 912,020; Feb. 9; Sp. p. 2042; Gaz. vol. 139; p. 356.  
 Piling. W. Neilson. No. 912,021; Feb. 9; Sp. p. 2044; Gaz. vol. 139; p. 356.  
 Piling-clasp. L. E. Edmunds. No. 928,641; July 20; Sp. p. 4044; Gaz. vol. 144; p. 704.  
 Piling device, Sheet-. E. F. Sheldon. No. 930,097; Aug. 3; Sp. p. 1000; Gaz. vol. 145; p. 162.  
 Piling, Interlocking metal sheet-. G. H. Harbour. No. 926,455; June 29; Sp. p. 7025; Gaz. vol. 143; p. 1238.  
 Piling, Interlocking sheet-. C. S. Boardman. No. 923,110; May 25; Sp. p. 6215; Gaz. vol. 142; p. 1078.  
 Piling, Interlocking sheet-metal. S. T. Fiero. No. 924,442; June 8; Sp. p. 2903; Gaz. vol. 143; p. 475.  
 Piling, Metal sheet-. T. C. Jackson. No. 922,769; May 25; Sp. p. 5504; Gaz. vol. 142; p. 968.  
 Piling, Sectional or sheet. J. M. Rafter. No. 933,665; Sept. 7; Sp. p. 1429; Gaz. vol. 146; p. 214.  
 Piling, Sheet-. W. L. Gibb. No. 927,963; July 13; Sp. p. 2638; Gaz. vol. 144; p. 448.  
 Piling, Sheet-. W. L. Gibb. No. 927,964; July 13; Sp. p. 2639; Gaz. vol. 144; p. 448.  
 Piling, Sheet-. H. M. Gould. No. 929,935; Aug. 3; Sp. p. 670; Gaz. vol. 145; p. 106.  
 Piling, Sheet-. H. M. Gould. No. 929,936; Aug. 3; Sp. p. 672; Gaz. vol. 145; p. 107.  
 Piling, Sheet-. G. Zister. No. 932,230; Aug. 24; Sp. p. 5532; Gaz. vol. 145; p. 942.  
 Piling, Sheet-. G. Zister. No. 932,231; Aug. 24; Sp. p. 5533; Gaz. vol. 145; p. 942.  
 Piling, Sheet-. A. A. Priestedt. No. 936,529; Oct. 12; Sp. p. 1969; Gaz. vol. 147; p. 325.  
 Piling, Sheet-. W. A. Kreidler. No. 937,817; Oct. 26; Sp. p. 4621; Gaz. vol. 147; p. 801.  
 Piling, Sheet-. W. A. Kreidler. No. 937,818; Oct. 26; Sp. p. 4623; Gaz. vol. 147; p. 801.  
 Piling, Sheet-metal. N. E. Marsh. No. 923,364; June 1; Sp. p. 587; Gaz. vol. 143; p. 84.  
 Piling, Sheet-metal. N. E. Marsh. No. 930,487; Aug. 10; Sp. p. 1734; Gaz. vol. 145; p. 313.  
 Pillings, Device to protect. A. B. Cook. No. 923,813; June 8; Sp. p. 1626; Gaz. vol. 143; p. 269.  
 Pillow. C. Taarud. No. 918,391; Apr. 13; Sp. p. 2896; Gaz. vol. 141; p. 511.  
 Pillow. O. F. Reich. (Reissue.) No. 12,952; May 4; Sp. p. 1649; Gaz. vol. 142; p. 264.  
 Pillow. R. B. Hobson. No. 926,563; June 29; Sp. p. 7204; Gaz. vol. 143; p. 1274.  
 Pillow, Beauty-. E. Fitze. No. 920,308; May 4; Sp. p. 459; Gaz. vol. 142; p. 71.  
 Pillow, Collapsible. J. M. and W. I. Doddridge. No. 924,893; June 15; Sp. p. 3868; Gaz. vol. 143; p. 659.  
 Pillow, Collapsible grave-. J. M. and W. I. Doddridge. No. 924,971; June 15; Sp. p. 4032; Gaz. vol. 143; p. 686.  
 Pillow cover, Sofa-. F. A. Reilley. No. 944,910; Dec. 28; Sp. p. 6203; Gaz. vol. 149; p. 1067.  
 Pillow or cushion frame. M. A. Yenner. No. 929,810; Aug. 3; Sp. p. 386; Gaz. vol. 145; p. 64.  
 Pillow-sham holder. M. Pach. No. 925,832; June 22; Sp. p. 5763; Gaz. vol. 143; p. 997.  
 Pillow-sham holder. M. F. Drake. No. 925,881; June 22; Sp. p. 5864; Gaz. vol. 143; p. 1014.  
 Pillow-sham holder. M. A. Nally. No. 938,015; Oct. 26; Sp. p. 5041; Gaz. vol. 147; p. 867.  
 Pin: See Belt-pin; Bowling-pin; Clothes-pin; Connecting-pin; Coupling-pin; Hair-pin; Hat-pin; Insulator-pin; Lock-pin; Ornamental pin  
 Piano tuning-pin; Powder-puff pin; Ribbon-pin; Rolling-pin; Safety-pin; Scarf-pin; Stud-pin.  
 Pin. M. J. Blessing. No. 911,026; Feb. 2; Sp. p. 6; Gaz. vol. 139; p. 4.  
 Pin. S. F. Bagg. No. 911,193; Feb. 2; Sp. p. 334; Gaz. vol. 139; p. 59.  
 Pin. F. M. Swartz. No. 915,901; Mar. 23; Sp. p. 4622; Gaz. vol. 140; p. 820.  
 Pin. C. Dean and E. F. Ruekert. No. 921,517; May 11; Sp. p. 2926; Gaz. vol. 142; p. 502.  
 Pin. G. W. Dover. (Reissue.) No. 12,954; May 11; Sp. p. 3218; Gaz. vol. 142; p. 550.  
 Pin and clevis. A. O. Buckius. No. 923,767; June 1; Sp. p. 1441; Gaz. vol. 143; p. 223.  
 Pin cutting and separating machine. W. B. Louthan. No. 928,206; July 13; Sp. p. 3108; Gaz. vol. 144; p. 529.  
 Pin fastening, Connecting-rod-. C. E. Van Auker. No. 913,785; Mar. 2; Sp. p. 233; Gaz. vol. 140; p. 39.  
 Pin-holder. M. Franke. No. 926,478; June 29; Sp. p. 7061; Gaz. vol. 143; p. 1245.  
 Pin holding and dispensing device. L. F. Woodhead. No. 909,270; Jan. 12; Sp. p. 1708; Gaz. vol. 138; p. 308.  
 Pin-machine. A. W. Bartlett. No. 929,184; July 27; Sp. p. 5140; Gaz. vol. 144; p. 912.  
 Pin paper-fastener. I. Rittenhouse. No. 920,393; May 4; Sp. p. 621; Gaz. vol. 142; p. 99.  
 Pin setter and spotter for bowling-alleys. J. F. Wuerth. No. 913,797; Mar. 2; Sp. p. 255; Gaz. vol. 140; p. 43.  
 Pin-tongue safety attachment. H. Ackerman. No. 929,640; July 27; Sp. p. 6076; Gaz. vol. 144; p. 1062.  
 Pins, &c., Machine for manufacturing grooved. A. L. Mowry. No. 939,061; Nov. 2; Sp. p. 1306; Gaz. vol. 148; p. 211.  
 Pins, &c., Safety attachment for stick-. P. Rittersbacher. No. 912,170; Feb. 9; Sp. p. 2334; Gaz. vol. 139; p. 403.  
 Pincers. R. N. Johnson and E. Newberg. No. 929,310; July 27; Sp. p. 5428; Gaz. vol. 144; p. 954.  
 Pincers, Lasting-. W. Huck. No. 941,254; Nov. 23; Sp. p. 6193; Gaz. vol. 148; p. 1039.  
 Pinch-bar. W. B. Hendrix. No. 922,280; May 18; Sp. p. 4497; Gaz. vol. 142; p. 780.  
 Pincushion, Perfumed. G. J. Lewis. No. 920,968; May 11; Sp. p. 1787; Gaz. vol. 142; p. 317.  
 Pine-oil, pine-tar oil, and wood-tar oil, Purifying. O. P. Pellnitz. No. 910,146; Jan. 19; Sp. p. 3447; Gaz. vol. 138; p. 631.  
 Pineapples, Machine for treating. G. W. Zastrow. No. 925,150; June 15; Sp. p. 4374; Gaz. vol. 143; p. 746.  
 Pinion-cutting machine, Automatic. A. H. Neureuther. No. 937,259; Oct. 19; Sp. p. 3467; Gaz. vol. 147; p. 599.  
 Pipe: See Blow-pipe; Cellar-pipe; Cement-lined pipe; Composite pipe; Coiling pipe; Culvert-pipe; Drain-pipe; Drain or sewer pipe; Drain or similar pipe; Flanged pipe; Gas service-pipe; Hose-pipe; Hot-air wall-pipe; Hydraulic pipe; Lead pipe; Metal pipe; Sewer-pipe; Smoker's pipe; Smoking-pipe; Stovepipe; Tobacco-pipe; Tobacco-smoking pipe; Water-pipe; Wooden-stave pipe.  
 Pipe. H. Leidel. No. 908,871; Jan. 5; Sp. p. 911; Gaz. vol. 138; p. 145.  
 Pipe. F. A. Dunn and F. G. Glaser. No. 910,119; Jan. 19; Sp. p. 3384; Gaz. vol. 138; p. 622.  
 Pipe. G. R. Dean. No. 915,275; Mar. 16; Sp. p. 3347; Gaz. vol. 140; p. 584.  
 Pipe. T. B. Bradford. No. 936,083; Oct. 5; Sp. p. 1023; Gaz. vol. 147; p. 155.  
 Pipe. H. W. Nicholes. No. 940,184; Nov. 16; Sp. p. 3854; Gaz. vol. 148; p. 654.  
 Pipe. J. A. Irving. No. 941,019; Nov. 23; Sp. p. 5692; Gaz. vol. 148; p. 961.  
 Pipe. L. Morris. No. 941,027; Nov. 23; Sp. p. 5710; Gaz. vol. 148; p. 963.  
 Pipe and beam clamp, Combined. M. C. Rosenfeld. No. 913,772; Mar. 2; Sp. p. 203; Gaz. vol. 140; p. 34.  
 Pipe and cleaner therefor. M. A. Hadcock. No. 939,247; Nov. 9; Sp. p. 1731; Gaz. vol. 148; p. 301.  
 Pipe and hose coupling, Detachable. G. James, S. Benson, and W. Wilson. No. 918,858; Apr. 20; Sp. p. 3955; Gaz. vol. 141; p. 695.  
 Pipe and nut wrench. G. D. Poindexter. No. 916,781; Mar. 30; Sp. p. 6305; Gaz. vol. 140; p. 1128.  
 Pipe and rod threader. H. Gauschi. No. 942,200; Dec. 7; Sp. p. 371; Gaz. vol. 149; p. 56.  
 Pipe attachment. W. E. Bush. No. 921,948; May 18; Sp. p. 3833; Gaz. vol. 142; p. 971.  
 Pipe attachment, Smoking-. A. Speirs. No. 916,623; Mar. 30; Sp. p. 6038; Gaz. vol. 140; p. 1082.  
 Pipe attachment, Tobacco-. W. E. Frazee. No. 912,105; Feb. 9; Sp. p. 2217; Gaz. vol. 139; p. 383.  
 Pipe-bending machine. C. Gordon. No. 913,004; Feb. 23; Sp. p. 4100; Gaz. vol. 139; p. 743.  
 Pipe-bending machine. C. N. Brown. No. 926,093; June 29; Sp. p. 6296; Gaz. vol. 143; p. 1118.  
 Pipe-bending machine. F. Trosienner. No. 932,191; Aug. 24; Sp. p. 5458; Gaz. vol. 145; p. 929.  
 Pipe-bracket. C. A. Sibert. No. 930,241; Aug. 3; Sp. p. 1271; Gaz. vol. 145; p. 209.  
 Pipe cap, Ground-. P. F. Williams. No. 937,130; Oct. 19; Sp. p. 3173; Gaz. vol. 147; p. 557.  
 Pipe cap, Vent-. G. J. Dehn. No. 912,823; Feb. 16; Sp. p. 3756; Gaz. vol. 139; p. 661.  
 Pipe-carrier foundation-top. C. L. and L. C. Stueber. No. 912,629; Feb. 16; Sp. p. 3326; Gaz. vol. 139; p. 596.  
 Pipe-casting machine. J. K. Gunn. No. 933,434; Sept. 7; Sp. p. 883; Gaz. vol. 146; p. 138.

*Alphabetical list of inventions—Continued.*

- Pipe, cigar-holder, &c. J. R. Perry. No. 936,734; Oct. 12; Sp. p. 2381; Gaz. vol. 147; p. 396.  
 Pipe-clamp. J. H. Wiest. No. 918,407; Apr. 13; Sp. p. 2927; Gaz. vol. 141; p. 516.  
 Pipe-clamp and hanger. R. E. Adreon. No. 918,639; Apr. 20; Sp. p. 3450; Gaz. vol. 141; p. 621.  
 Pipe-clamp for ground-connections. T. Nagel. No. 921,145; May 11; Sp. p. 2142; Gaz. vol. 142; p. 377.  
 Pipe-clamp or coupling collar. J. T. Everett. No. 921,816; May 18; Sp. p. 3546; Gaz. vol. 142; p. 629.  
 Pipe-cleaner, Drain-. G. M. Bloom. No. 944,311; Dec. 28; Sp. p. 4887; Gaz. vol. 149; p. 861.  
 Pipe-cleaning apparatus. J. W. Roche. No. 918,091; Apr. 13; Sp. p. 2302; Gaz. vol. 141; p. 413.  
 Pipe-cleaning apparatus. G. A. Lutz. No. 939,608; Nov. 9; Sp. p. 2577; Gaz. vol. 148; p. 423.  
 Pipe-cleaning apparatus, Beer-. J. R. Steiger. No. 927,893; July 13; Sp. p. 2485; Gaz. vol. 144; p. 424.  
 Pipe-cleaning device. G. F. Whitney. No. 944,710; Dec. 28; Sp. p. 5773; Gaz. vol. 149; p. 999.  
 Pipe-cleaning machine, Beer-. W. Gömann. No. 917,286; Apr. 6; Sp. p. 671; Gaz. vol. 141; p. 115.  
 Pipe-closure. J. D. Blake. No. 921,069; May 11; Sp. p. 1995; Gaz. vol. 142; p. 351.  
 Pipe-colling machine. L. C. Schneider. No. 928,220; July 13; Sp. p. 3134; Gaz. vol. 144; p. 534.  
 Pipe-compensator. E. Witzemann. No. 916,907; Mar. 30; Sp. p. 6563; Gaz. vol. 140; p. 1170.  
 Pipe-compensator. J. Koenig. No. 935,996; Oct. 5; Sp. p. 846; Gaz. vol. 147; p. 127.  
 Pipe-conduit, Steam-. S. W. Hersey. No. 921,832; May 18; Sp. p. 3599; Gaz. vol. 142; p. 635.  
 Pipe-connection. B. D. Coppage. No. 913,265; Feb. 23; Sp. p. 4626; Gaz. vol. 139; p. 830.  
 Pipe-connection. J. A. Miller. No. 919,913; Apr. 27; Sp. p. 6330; Gaz. vol. 141; p. 1081.  
 Pipe-connection. H. Mueller. No. 931,950; Aug. 24; Sp. p. 4944; Gaz. vol. 145; p. 848.  
 Pipe-connection. A. C. Schuermann. No. 934,983; Sept. 21; Sp. p. 4039; Gaz. vol. 146; p. 701.  
 Pipe-connection. T. D. Gleeson. No. 937,065; Oct. 19; Sp. p. 3041; Gaz. vol. 147; p. 534.  
 Pipe-connection. A. Holloway. No. 943,677; Dec. 21; Sp. p. 3560; Gaz. vol. 149; p. 620.  
 Pipe-connection and support. E. Boermel. No. 930,034; Aug. 3; Sp. p. 864; Gaz. vol. 145; p. 139.  
 Pipe-connection, Corrugated-. G. E. Wilson. No. 926,532; June 29; Sp. p. 7152; Gaz. vol. 143; p. 1263.  
 Pipe-connector, Automatic. J. L. Mohun. No. 924,485; June 8; Sp. p. 2984; Gaz. vol. 143; p. 488.  
 Pipe-connector, Automatic. J. L. Mohun. No. 924,486; June 8; Sp. p. 2989; Gaz. vol. 143; p. 489.  
 Pipe-connector, Train-. F. H. Rutherford. No. 908,701; Jan. 5; Sp. p. 577; Gaz. vol. 138; p. 90.  
 Pipe-cooling and trimming apparatus, Combined. G. Duncan. No. 908,761; Jan. 5; Sp. p. 704; Gaz. vol. 138; p. 109.  
 Pipe-coupling. C. R. Schmidt. No. 909,029; Jan. 5; Sp. p. 1219; Gaz. vol. 138; p. 196.  
 Pipe-coupling. J. M. St. John. No. 909,830; Jan. 12; Sp. p. 2803; Gaz. vol. 138; p. 494.  
 Pipe-coupling. W. H. Stoddard. No. 909,959; Jan. 19; Sp. p. 3091; Gaz. vol. 138; p. 571.  
 Pipe-coupling. E. W. Adams. No. 912,929; Feb. 16; Sp. p. 3936; Gaz. vol. 139; p. 693.  
 Pipe-coupling. J. D. Hazlet and L. L. Lord. No. 915,956; Mar. 23; Sp. p. 4719; Gaz. vol. 140; p. 837.  
 Pipe-coupling. E. P. Nole. No. 917,111; Apr. 6; Sp. p. 300; Gaz. vol. 141; p. 55.  
 Pipe-coupling. L. C. Robinson and J. B. Gaylor. No. 919,955; Apr. 27; Sp. p. 6402; Gaz. vol. 141; p. 1093.  
 Pipe-coupling. H. E. Keyes. No. 920,963; May 11; Sp. p. 1775; Gaz. vol. 142; p. 315.  
 Pipe-coupling. A. T. Herrick. No. 921,247; May 11; Sp. p. 2355; Gaz. vol. 142; p. 413.  
 Pipe-coupling. G. W. Millar. No. 923,681; June 1; Sp. p. 1252; Gaz. vol. 143; p. 194.  
 Pipe-coupling. T. W. Moll. No. 924,262; June 8; Sp. p. 2558; Gaz. vol. 143; p. 416.  
 Pipe-coupling. V. H. Kriegshaber. No. 924,558; June 8; Sp. p. 3141; Gaz. vol. 143; p. 513.  
 Pipe-coupling. C. R. Schmidt. No. 924,840; June 15; Sp. p. 3751; Gaz. vol. 143; p. 642.  
 Pipe-coupling. A. T. Herrick. No. 925,770; June 22; Sp. p. 5633; Gaz. vol. 143; p. 977.  
 Pipe-coupling. C. A. Blessing. No. 927,101; July 6; Sp. p. 848; Gaz. vol. 144; p. 136.  
 Pipe-coupling. J. M. Cameron. No. 927,403; July 6; Sp. p. 1405; Gaz. vol. 144; p. 232.  
 Pipe-coupling. P. A. Johnson. No. 929,858; Aug. 3; Sp. p. 503; Gaz. vol. 145; p. 80.  
 Pipe-coupling. H. D. Robinson. No. 930,692; Aug. 10; Sp. p. 2191; Gaz. vol. 145; p. 382.  
 Pipe-coupling. W. McGrath and E. J. Buckbee. No. 930,984; Aug. 10; Sp. p. 2825; Gaz. vol. 145; p. 477.  
 Pipe-coupling. T. E. Williams. No. 931,171; Aug. 17; Sp. p. 3268; Gaz. vol. 145; p. 570.  
 Pipe-coupling. W. H. Hammond. No. 931,296; Aug. 17; Sp. p. 3557; Gaz. vol. 145; p. 613.  
 Pipe-coupling. M. A. Connor. No. 931,914; Aug. 24; Sp. p. 4879; Gaz. vol. 145; p. 836.  
 Pipe-coupling. J. W. Anderson. No. 932,424; Aug. 31; Sp. p. 5900; Gaz. vol. 145; p. 1029.  
 Pipe-coupling. G. E. McLaughlin. No. 932,805; Aug. 31; Sp. p. 6736; Gaz. vol. 145; p. 1155.  
 Pipe-coupling. J. Clark. No. 932,963; Aug. 31; Sp. p. 7018; Gaz. vol. 145; p. 1207.  
 Pipe-coupling. H. Mueller. No. 934,687; Sept. 21; Sp. p. 3453; Gaz. vol. 146; p. 601.  
 Pipe-coupling. G. E. Kelly and G. F. Royer. No. 937,533; Oct. 19; Sp. p. 4060; Gaz. vol. 147; p. 690.  
 Pipe-coupling. M. F. Kelly. No. 938,425; Oct. 26; Sp. p. 5944; Gaz. vol. 147; p. 1008.  
 Pipe-coupling. G. W. Curry. No. 938,984; Nov. 2; Sp. p. 1156; Gaz. vol. 148; p. 184.  
 Pipe-coupling. E. Marek. No. 939,146; Nov. 2; Sp. p. 1492; Gaz. vol. 148; p. 241.  
 Pipe-coupling. F. C. Pahlow. No. 939,539; Nov. 9; Sp. p. 2411; Gaz. vol. 148; p. 400.  
 Pipe-coupling. J. C. Yearke. No. 943,330; Dec. 14; Sp. p. 2790; Gaz. vol. 149; p. 470.  
 Pipe-coupling. G. H. Reynolds. No. 943,461; Dec. 14; Sp. p. 3066; Gaz. vol. 149; p. 515.  
 Pipe-coupling. C. J. Smith. No. 943,900; Dec. 21; Sp. p. 4021; Gaz. vol. 149; p. 696.  
 Pipe-coupling and connection, Sewer-. M. Nelson. No. 913,036; Feb. 23; Sp. p. 4147; Gaz. vol. 139; p. 753.  
 Pipe-coupling, Automatic. F. C. Doane and F. E. Ceeder. No. 940,678; Nov. 23; Sp. p. 4962; Gaz. vol. 148; p. 846.  
 Pipe-coupling, Automatic train-. L. C. Cary. No. 930,041; Aug. 3; Sp. p. 878; Gaz. vol. 145; p. 142.  
 Pipe-coupling, Automatic train-. R. G. Strother. No. 935,944; Oct. 5; Sp. p. 734; Gaz. vol. 147; p. 108.  
 Pipe-coupling, Flexible. G. F. Royer. No. 916,025; Mar. 23; Sp. p. 4859; Gaz. vol. 140; p. 860.  
 Pipe-coupling, Flexible metallic. W. J. Kilpatrick. No. 927,659; July 13; Sp. p. 1997; Gaz. vol. 144; p. 347.  
 Pipe-coupling for water-closets, Soil-. J. F. Kelly. No. 934,975; Sept. 21; Sp. p. 4018; Gaz. vol. 146; p. 698.  
 Pipe-coupling head, Automatic. J. F. Ward and C. L. Davidson. No. 918,230; Apr. 13; Sp. p. 2578; Gaz. vol. 141; p. 459.  
 Pipe-coupling, Lead-. G. C. Rick. No. 933,584; Sept. 7; Sp. p. 1268; Gaz. vol. 146; p. 187.  
 Pipe-coupling or joint. P. Boyd and J. A. Hock. No. 918,954; Apr. 20; Sp. p. 4165; Gaz. vol. 141; p. 728.  
 Pipe-coupling, Reinforced-concrete. J. M. Phelan. No. 916,587; Mar. 30; Sp. p. 5967; Gaz. vol. 140; p. 1071.  
 Pipe-coupling, Train-. G. E. Kelly and G. F. Royer. No. 909,910; Jan. 19; Sp. p. 2984; Gaz. vol. 138; p. 553.  
 Pipe-coupling, Train-. W. F. Clasen. No. 913,811; Mar. 2; Sp. p. 279; Gaz. vol. 140; p. 47.  
 Pipe-coupling, Train-. W. M. Hiler. No. 936,894; Oct. 12; Sp. p. 2692; Gaz. vol. 147; p. 449.  
 Pipe-coupling, Train-. T. C. Brett. No. 944,941; Dec. 28; Sp. p. 6260; Gaz. vol. 149; p. 1076.  
 Pipe-couplings, &c., Blank for the manufacture of middle-rings for. G. H. White. No. 922,990; May 25; Sp. p. 5960; Gaz. vol. 142; p. 1039.  
 Pipe-couplings, Clamping-ring for. F. N. Smith and G. P. Boothe. No. 944,748; Dec. 28; Sp. p. 5874; Gaz. vol. 149; p. 1012.  
 Pipe-couplings, Making metal rings for. G. H. White. No. 940,414; Nov. 16; Sp. p. 4390; Gaz. vol. 148; p. 734.  
 Pipe-cover, Tobacco-. A. Gloede. No. 932,269; Aug. 24; Sp. p. 5598; Gaz. vol. 145; p. 955.  
 Pipe-covering, Metal-cased. C. G. Kelly. No. 926,423; June 29; Sp. p. 6969; Gaz. vol. 143; p. 1227.  
 Pipe-cutter. R. Eck. No. 922,111; May 18; Sp. p. 4149; Gaz. vol. 142; p. 725.  
 Pipe-cutting machine. F. La Vine. No. 932,989; Aug. 31; Sp. p. 7062; Gaz. vol. 145; p. 1214.  
 Pipe-cutting machines, Reaming attachment for. E. M. Buckius. No. 922,082; May 18; Sp. p. 4098; Gaz. vol. 142; p. 716.  
 Pipe-diaphragm. W. C. Lautner. No. 915,683; Mar. 16; Sp. p. 4199; Gaz. vol. 140; p. 723.  
 Pipe-elbow, Sheet-metal convertible. H. F. Voshardt. No. 912,336; Feb. 16; Sp. p. 2714; Gaz. vol. 139; p. 495.  
 Pipe-expanding tool. E. F. Wardwell. No. 936,838; Oct. 12; Sp. p. 2585; Gaz. vol. 147; p. 431.  
 Pipe-ferrule. J. R. Williams. No. 909,725; Jan. 12; Sp. p. 2610; Gaz. vol. 138; p. 461.  
 Pipe-fitting. W. W. Glidden. No. 918,843; Apr. 20; Sp. p. 3915; Gaz. vol. 141; p. 690.  
 Pipe-fitting. D. T. Williams. No. 921,039; May 11; Sp. p. 1918; Gaz. vol. 142; p. 340.  
 Pipe-fitting. G. Clark. No. 924,039; June 8; Sp. p. 2050; Gaz. vol. 143; p. 341.  
 Pipe-fitting, Hot-water heating-. M. C. Honeywell. No. 921,111; May 11; Sp. p. 2076; Gaz. vol. 142; p. 366.  
 Pipe-fitting, Soil-. F. B. Morton. No. 942,339; Dec. 7; Sp. p. 657; Gaz. vol. 149; p. 105.  
 Pipe-fitting, Universal. W. H. Eynon. No. 930,060; Aug. 3; Sp. p. 923; Gaz. vol. 145; p. 148.  
 Pipe-flashing, Soil-. R. C. Ricker. No. 925,946; June 22; Sp. p. 5989; Gaz. vol. 143; p. 1034.  
 Pipe-hanger. W. L. Iwan. No. 911,877; Feb. 9; Sp. p. 1661; Gaz. vol. 139; p. 308.  
 Pipe-hanger. D. A. Donovan. No. 918,021; Apr. 13; Sp. p. 2159; Gaz. vol. 141; p. 388.  
 Pipe-hanger. E. E. Taft. No. 928,711; July 20; Sp. p. 4170; Gaz. vol. 144; p. 727.  
 Pipe-hanger. H. C. Folger. No. 934,663; Sept. 21; Sp. p. 3403; Gaz. vol. 146; p. 594.  
 Pipe-hanger. H. C. Folger. No. 934,804; Sept. 21; Sp. p. 3681; Gaz. vol. 146; p. 639.  
 Pipe-hanger and anchor and connection therebetween. T. Mason. No. 915,782; Mar. 23; Sp. p. 4404; Gaz. vol. 140; p. 781.



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- Pipe-hanger beam-clamp. J. H. Doran. No. 919,558; Apr. 27; Sp. p. 5595; Gaz. vol. 141; p. 961.  
 Pipe-hanger support. R. A. Jenckes. No. 941,714; Nov. 30; Sp. p. 7193; Gaz. vol. 148; p. 1212.  
 Pipe into flat metal, Transforming scrap-. J. T. Horner. No. 910,684; Jan. 26; Sp. p. 4615; Gaz. vol. 138; p. 840.  
 Pipe-joining machine. J. A. Pittman and S. A. James. No. 924,828; June 15; Sp. p. 3727; Gaz. vol. 143; p. 638.  
 Pipe-joint. L. Billé. No. 928,896; July 20; Sp. p. 4537; Gaz. vol. 144; p. 790.  
 Pipe-joint. H. N. Moseley. No. 932,633; Aug. 31; Sp. p. 6372; Gaz. vol. 145; p. 1099.  
 Pipe-joint. R. R. Rust. No. 935,412; Sept. 28; Sp. p. 4896; Gaz. vol. 146; p. 866.  
 Pipe-joint. C. Revalliot. No. 944,503; Dec. 28; Sp. p. 5329; Gaz. vol. 149; p. 929.  
 Pipe-joint coupling. H. B. Hodge. No. 922,480; May 25; Sp. p. 4902; Gaz. vol. 142; p. 873.  
 Pipe-joint, Dredging-. L. W. Bates. No. 922,075; May 18; Sp. p. 4078; Gaz. vol. 142; p. 713.  
 Pipe-joint, Flexible. C. H. Jenkins. No. 910,687; Jan. 26; Sp. p. 4618; Gaz. vol. 138; p. 841.  
 Pipe-joint, Flexible. W. A. Greenlaw. No. 916,301; Mar. 23; Sp. p. 5356; Gaz. vol. 140; p. 949.  
 Pipe-joint, Flexible. W. A. Greenlaw. No. 918,144; Apr. 13; Sp. p. 2405; Gaz. vol. 141; p. 431.  
 Pipe-joint, Flexible. W. A. Greenlaw. No. 918,443; Apr. 13; Sp. p. 3001; Gaz. vol. 141; p. 528.  
 Pipe-joint, Flexible. W. A. Greenlaw. No. 927,462; July 6; Sp. p. 1550; Gaz. vol. 144; p. 254.  
 Pipe-joint, Flexible. W. A. Greenlaw. No. 930,071; Aug. 3; Sp. p. 945; Gaz. vol. 145; p. 152.  
 Pipe-joint, Flexible. W. A. Greenlaw. No. 939,908; Nov. 9; Sp. p. 3208; Gaz. vol. 148; p. 529.  
 Pipe-joint, Fluid-tight rotary. A. Walder. No. 929,734; Aug. 3; Sp. p. 205; Gaz. vol. 145; p. 36.  
 Pipe-joint-forming machine. F. Deering. No. 927,836; July 13; Sp. p. 2365; Gaz. vol. 144; p. 406.  
 Pipe-joint-molding apparatus. J. F. Milam. No. 943,558; Dec. 14; Sp. p. 3264; Gaz. vol. 149; p. 550.  
 Pipe joint, Rotary stand-. W. S. Phelps. No. 943,267; Dec. 14; Sp. p. 2654; Gaz. vol. 149; p. 450.  
 Pipe lifting and separating apparatus. J. L. Hendershot. No. 927,854; July 13; Sp. p. 2403; Gaz. vol. 144; p. 411.  
 Pipe-line-cleaning device. H. A. Greenan. No. 914,824; Mar. 9; Sp. p. 2461; Gaz. vol. 140; p. 412.  
 Pipe-line-cleaning device. E. R. Reeser. No. 929,110; July 27; Sp. p. 4982; Gaz. vol. 144; p. 887.  
 Pipe-line shafting, Coupling-clamp for. J. E. Jones. No. 935,111; Sept. 28; Sp. p. 4315; Gaz. vol. 146; p. 770.  
 Pipe-lines, Device for coupling and uncoupling sectional metallic. L. T. Gillett and S. J. Ulrey. No. 921,973; May 18; Sp. p. 3882; Gaz. vol. 142; p. 679.  
 Pipe-lines, Device for passing cables through. H. A. Greenan. (Reissue.) No. 13,032; Nov. 2; Sp. p. 1599; Gaz. vol. 148; p. 259.  
 Pipe-lines, Expansion-joint for. E. F. Osborne. No. 944,273; Dec. 28; Sp. p. 4792; Gaz. vol. 149; p. 847.  
 Pipe, Machine for cutting large. D. L. Holland. No. 930,755; Aug. 10; Sp. p. 2327; Gaz. vol. 145; p. 404.  
 Pipe-main service connection. W. N. Phillips. No. 937,958; Oct. 26; Sp. p. 4913; Gaz. vol. 147; p. 848.  
 Pipe-making machine. W. Langenheilm. No. 914,851; Mar. 9; Sp. p. 2519; Gaz. vol. 140; p. 421.  
 Pipe-making press. J. Fraser and T. Gray. No. 914,369; Mar. 2; Sp. p. 1530; Gaz. vol. 140; p. 236.  
 Pipe, Making welded. J. H. Taylor. No. 916,501; Mar. 30; Sp. p. 5793; Gaz. vol. 140; p. 1043.  
 Pipe, Means for packing nesting. A. G. Scherer. No. 934,938; Sept. 21; Sp. p. 3949; Gaz. vol. 146; p. 685.  
 Pipe-mold. E. L. Maag. No. 935,529; Sept. 28; Sp. p. 5143; Gaz. vol. 146; p. 904.  
 Pipe-molding machine. R. Ardelet. No. 915,323; Mar. 16; Sp. p. 3445; Gaz. vol. 140; p. 600.  
 Pipe mouthpiece, Suction-. J. Markman. No. 909,921; Jan. 19; Sp. p. 3011; Gaz. vol. 138; p. 558.  
 Pipe or culvert joint. J. P. Zimmer. No. 914,909; Mar. 9; Sp. p. 2623; Gaz. vol. 140; p. 440.  
 Pipe or hose cleaning device. C. C. Gerhardt. No. 940,457; Nov. 16; Sp. p. 4481; Gaz. vol. 148; p. 749.  
 Pipe or hose coupling. L. S. Dismuth. No. 912,233; Feb. 9; Sp. p. 2440; Gaz. vol. 139; p. 421.  
 Pipe or hose coupling, Detachable. G. James, S. Benson, and W. Wilson. No. 913,144; Feb. 23; Sp. p. 4377; Gaz. vol. 139; p. 790.  
 Pipe or rod carrier. G. Holt. No. 942,446; Dec. 7; Sp. p. 864; Gaz. vol. 149; p. 141.  
 Pipe-puller. J. Lamberty. No. 915,866; Mar. 23; Sp. p. 4551; Gaz. vol. 140; p. 808.  
 Pipe puller and holder. S. L. Blake. No. 935,186; Sept. 28; Sp. p. 4448; Gaz. vol. 146; p. 792.  
 Pipe-reamer. W. F. Porter. No. 924,378; June 8; Sp. p. 2803; Gaz. vol. 143; p. 455.  
 Pipe-reamer attachment for threaders. G. Reeb. No. 944,909; Dec. 28; Sp. p. 6202; Gaz. vol. 149; p. 1067.  
 Pipe-riveting machine. F. W. McKnight. No. 940,608; Nov. 16; Sp. p. 4788; Gaz. vol. 148; p. 798.  
 Pipe-section mold, Curved. W. S. Sigler. No. 938,024; Oct. 26; Sp. p. 5058; Gaz. vol. 147; p. 870.  
 Pipe-section mold, Drain-. S. L. Simons. No. 937,105; Oct. 19; Sp. p. 3115; Gaz. vol. 147; p. 548.  
 Pipe, Skelp-treating apparatus for lapweld. H. W. Hock. No. 942,176; Dec. 7; Sp. p. 327; Gaz. vol. 149; p. 50.  
 Pipe slip-joint. C. D. Milne. No. 936,469; Oct. 12; Sp. p. 1839; Gaz. vol. 147; p. 305.  
 Pipe slip-joint coupling, Steam-. J. E. Struer. No. 915,502; Mar. 16; Sp. p. 3795; Gaz. vol. 140; p. 660.  
 Pipe-sockets, Machine for forming cores for. W. H. Larrison. No. 932,402; Aug. 24; Sp. p. 5846; Gaz. vol. 145; p. 998.  
 Pipe stem, Tobacco-. G. W. Bowers. No. 916,097; Mar. 23; Sp. p. 4986; Gaz. vol. 140; p. 884.  
 Pipe-stems, Detachable mouthpiece for. R. L. Reed. No. 927,074; July 6; Sp. p. 791; Gaz. vol. 144; p. 126.  
 Pipe suction device, Air, gas, or smoke. A. Cauchement. No. 918,962; Apr. 20; Sp. p. 4182; Gaz. vol. 141; p. 731.  
 Pipe-support. C. F. Clawson. No. 916,673; Mar. 30; Sp. p. 6126; Gaz. vol. 140; p. 1097.  
 Pipe-supporting device, Adjustable. E. H. Gold. No. 944,731; Dec. 28; Sp. p. 5815; Gaz. vol. 149; p. 1006.  
 Pipe-system testing-plug. J. Simon. No. 910,966; Jan. 26; Sp. p. 5160; Gaz. vol. 138; p. 930.  
 Pipe-tapping machine. W. B. Ford. No. 936,618; Oct. 12; Sp. p. 2158; Gaz. vol. 147; p. 357.  
 Pipe thread-protector. J. T. Duff. No. 912,944; Feb. 16; Sp. p. 3961; Gaz. vol. 139; p. 697.  
 Pipe-threads and like work, Machine for chasing. W. T. Johnston. No. 938,058; Oct. 26; Sp. p. 5131; Gaz. vol. 147; p. 882.  
 Pipe-threader, Ratchet. M. Dixon. No. 921,518; May 11; Sp. p. 2928; Gaz. vol. 142; p. 503.  
 Pipe-threading device. S. F. Bartol. No. 915,325; Mar. 16; Sp. p. 3448; Gaz. vol. 140; p. 601.  
 Pipe-threading machine. V. E. Ankarlo. No. 913,089; Feb. 23; Sp. p. 4261; Gaz. vol. 139; p. 772.  
 Pipe-threading machine. C. M. Foster. No. 922,120; May 18; Sp. p. 4163; Gaz. vol. 142; p. 728.  
 Pipe-threading tool. B. Borden. No. 924,963; June 15; Sp. p. 4003; Gaz. vol. 143; p. 684.  
 Pipe-turning apparatus. E. E. Williams. No. 909,724; Jan. 12; Sp. p. 2608; Gaz. vol. 138; p. 461.  
 Pipe-vise. A. Senn. No. 912,187; Feb. 9; Sp. p. 2360; Gaz. vol. 139; p. 408.  
 Pipe-wrench. C. M. Quinley. No. 915,699; Mar. 16; Sp. p. 4228; Gaz. vol. 140; p. 629.  
 Pipe-wrench. C. W. Sievert. No. 916,376; Mar. 23; Sp. p. 5497; Gaz. vol. 140; p. 975.  
 Pipe-wrench. O. W. Blake. No. 921,581; May 11; Sp. p. 3038; Gaz. vol. 142; p. 521.  
 Pipe-wrench. D. B. Edwins. No. 922,866; May 25; Sp. p. 5711; Gaz. vol. 142; p. 1000.  
 Pipe-wrench. E. M. Peterson. No. 928,150; July 13; Sp. p. 2978; Gaz. vol. 144; p. 509.  
 Pipe-wrench. H. C. Ray. No. 928,216; July 13; Sp. p. 3128; Gaz. vol. 144; p. 533.  
 Pipe-wrench. W. T. Bennett. No. 930,132; Aug. 3; Sp. p. 1077; Gaz. vol. 145; p. 174.  
 Pipe-wrench. A. Stenech. No. 934,945; Sept. 21; Sp. p. 3963; Gaz. vol. 146; p. 688.  
 Pipe-wrench. A. A. Patton. No. 936,804; Oct. 12; Sp. p. 2516; Gaz. vol. 147; p. 420.  
 Pipe-wrench. J. E. Richards. No. 937,959; Oct. 26; Sp. p. 4914; Gaz. vol. 147; p. 849.  
 Pipes, Air vessel for water-supply. K. Romstaedt. No. 942,666; Dec. 7; Sp. p. 1319; Gaz. vol. 149; p. 216.  
 Pipes and furnace-casings, Manhole and bonnet for. E. Pannenberg. No. 934,751; Sept. 21; Sp. p. 3567; Gaz. vol. 146; p. 622.  
 Pipes, Apparatus for jointing. W. S. Sigler. No. 940,562; Nov. 16; Sp. p. 4705; Gaz. vol. 148; p. 783.  
 Pipes, cigar and cigarette holders, Mouthpiece for. E. Lichtblau. No. 922,007; May 18; Sp. p. 3957; Gaz. vol. 142; p. 691.  
 Pipes, &c., Coupling for train-. J. E. Forsyth. No. 941,066; Nov. 23; Sp. p. 5783; Gaz. vol. 148; p. 976.  
 Pipes, &c., Covering for earthenware. E. Henss. No. 925,809; June 22; Sp. p. 5715; Gaz. vol. 143; p. 990.  
 Pipes, Device for passing cables through water-. H. A. Greenan. No. 934,520; Sept. 21; Sp. p. 3117; Gaz. vol. 146; p. 544.  
 Pipes, Device for preventing the return of waste water into water-supply. R. Stickdorn. No. 926,968; July 6; Sp. p. 543; Gaz. vol. 144; p. 89.  
 Pipes, Device for removing burs from. C. A. Hart. No. 909,182; Jan. 12; Sp. p. 1551; Gaz. vol. 138; p. 280.  
 Pipes, Device for removing obstacles from drain-. J. A. Muherin. No. 937,458; Oct. 19; Sp. p. 3902; Gaz. vol. 147; p. 663.  
 Pipes, Flanging. C. D. Murdock. No. 940,702; Nov. 23; Sp. p. 5008; Gaz. vol. 148; p. 855.  
 Pipes in ingots, Apparatus for reducing. G. L. Norris. No. 931,792; Aug. 24; Sp. p. 4600; Gaz. vol. 145; p. 797.  
 Pipes, Lining. J. O. Persons. No. 942,184; Dec. 7; Sp. p. 336; Gaz. vol. 149; p. 51.  
 Pipes, Machine for making continuous. R. F. Dockery. No. 938,223; Oct. 26; Sp. p. 5494; Gaz. vol. 147; p. 939.  
 Pipes, Preparing corncobs in the manufacture of. G. F. Hausmann. No. 909,087; Jan. 5; Sp. p. 1342; Gaz. vol. 138; p. 215.  
 Pipes, Removable cap for. E. J. Carter and L. J. Houle. No. 943,338; Dec. 14; Sp. p. 2813; Gaz. vol. 149; p. 473.  
 Pipes, Slip-joint for steam-. J. E. Struer. No. 943,904; Dec. 21; Sp. p. 4029; Gaz. vol. 149; p. 698.  
 Pipes, Transporting-bar for. W. S. Sigler. No. 938,023; Oct. 26; Sp. p. 5057; Gaz. vol. 147; p. 870.  
 Pipes with sand, Apparatus for filling metal. C. O. Scholz. No. 942,355; Dec. 7; Sp. p. 684; Gaz. vol. 149; p. 110.  
 Pipette attachment. A. E. Hutchinson. No. 917,442; Apr. 6; Sp. p. 962; Gaz. vol. 141; p. 167.  
 Pistol. M. J. Shimer. No. 944,107; Dec. 21; Sp. p. 4456; Gaz. vol. 149; p. 767.

*Alphabetical list of inventions—Continued.*

- Pistol and rifle, Automatic. W. J. Whiting. No. 944,930; Dec. 28; Sp. p. 6246; Gaz. vol. 149; p. 1073.
- Pistol, Automatic. N. Pieper. No. 911,265; Feb. 2; Sp. p. 485; Gaz. vol. 139; p. 83.
- Pistol, Automatic. R. E. Flyberg. No. 915,087; Mar. 16; Sp. p. 2943; Gaz. vol. 140; p. 523.
- Pistol, Automatic. W. J. Whiting. No. 918,406; Apr. 13; Sp. p. 2924; Gaz. vol. 141; p. 516.
- Pistol, Automatic. B. Clarus. No. 929,286; July 27; Sp. p. 5370; Gaz. vol. 144; p. 946.
- Pistol, Automatic. R. Wiles. No. 930,710; Aug. 10; Sp. p. 2235; Gaz. vol. 145; p. 389.
- Pistol, Automatic. R. Wiles. No. 941,749; Nov. 30; Sp. p. 7259; Gaz. vol. 148; p. 1224.
- Pistol, Liquid magazine. T. G. Hamilton. No. 927,040; July 6; Sp. p. 716; Gaz. vol. 144; p. 113.
- Pistol, Repeating cap-. J. D. Kilgore. No. 929,311; July 27; Sp. p. 5430; Gaz. vol. 144; p. 955.
- Pistol, Self-loading. R. Becker. No. 935,952; Oct. 5; Sp. p. 748; Gaz. vol. 147; p. 111.
- Pistol, Toy. H. D. Gardy. No. 909,393; Jan. 12; Sp. p. 1943; Gaz. vol. 138; p. 347.
- Pistol, Toy. J. Darling. No. 915,563; Mar. 16; Sp. p. 3938; Gaz. vol. 140; p. 679.
- Pistols, &c., Automatic safety appliance for. J. Tambour. No. 939,111; Nov. 2; Sp. p. 1405; Gaz. vol. 148; p. 228.
- Piston. W. J. Armstrong. No. 908,932; Jan. 5; Sp. p. 1027; Gaz. vol. 138; p. 165.
- Piston. R. Allen. No. 920,237; May 4; Sp. p. 292; Gaz. vol. 142; p. 47.
- Piston. T. Hall. No. 938,481; Nov. 2; Sp. p. 65; Gaz. vol. 148; p. 12.
- Piston-connecting rod. J. B. Hicks. No. 930,473; Aug. 10; Sp. p. 1709; Gaz. vol. 145; p. 309.
- Piston for ammonia-compressors. P. Neff, D. Cole, and E. L. Ebersole. No. 924,098; June 8; Sp. p. 2152; Gaz. vol. 143; p. 359.
- Piston for disk meters, &c., Oscillating disk. G. de Laval. No. 923,497; June 1; Sp. p. 853; Gaz. vol. 143; p. 130.
- Piston for hot-air engines. F. B. Hubbard. No. 942,261; Dec. 7; Sp. p. 498; Gaz. vol. 149; p. 77.
- Piston for steam-engines, Insulating-. F. A. Pritschau. No. 925,224; June 15; Sp. p. 4526; Gaz. vol. 143; p. 772.
- Piston leak-obviating means. H. M. P. Murphy. No. 912,713; Feb. 16; Sp. p. 3508; Gaz. vol. 139; p. 624.
- Piston-ring. H. Harkins. No. 920,950; May 11; Sp. p. 1757; Gaz. vol. 142; p. 312.
- Piston-rod coupling. B. Zinke. No. 919,112; Apr. 20; Sp. p. 4448; Gaz. vol. 141; p. 777.
- Pitch-board. C. E. Lytle. No. 944,799; Dec. 28; Sp. p. 5968; Gaz. vol. 149; p. 1029.
- Pitcher. G. R. Paalen. No. 921,729; May 18; Sp. p. 3370; Gaz. vol. 142; p. 599.
- Pitcher. D. Ball. No. 923,931; June 8; Sp. p. 1840; Gaz. vol. 143; p. 307.
- Pitcher. P. Pollard. No. 936,938; Oct. 12; Sp. p. 2771; Gaz. vol. 147; p. 463.
- Pitcher closure, Syrup-. J. C. Noel. No. 933,196; Sept. 7; Sp. p. 355; Gaz. vol. 146; p. 56.
- Pitching-machine. J. Penningh and H. Kleiner. No. 929,978; Aug. 3; Sp. p. 754; Gaz. vol. 145; p. 121.
- Pitchfork attachment. C. A. Duprey. No. 910,274; Jan. 19; Sp. p. 3771; Gaz. vol. 138; p. 679.
- Pitman. J. Dain. No. 919,542; Apr. 27; Sp. p. 5560; Gaz. vol. 141; p. 955.
- Pitman. J. A. Wilson. No. 927,392; July 6; Sp. p. 1375; Gaz. vol. 144; p. 229.
- Pitman-box. C. M. Jennings. No. 941,638; Nov. 30; Sp. p. 7009; Gaz. vol. 148; p. 1186.
- Pitman connection. W. C. Benson. No. 912,277; Feb. 16; Sp. p. 2582; Gaz. vol. 139; p. 475.
- Pitman connection. C. E. Townley. No. 918,225; Apr. 13; Sp. p. 2570; Gaz. vol. 141; p. 458.
- Pitman connection. C. L. Wemple. No. 918,717; Apr. 20; Sp. p. 3663; Gaz. vol. 141; p. 649.
- Pitman connection. W. L. Chrysler and J. W. Kays. No. 921,363; May 11; Sp. p. 2624; Gaz. vol. 142; p. 451.
- Pitman connection. W. L. Chrysler and J. W. Kays. No. 935,140; Sept. 28; Sp. p. 4367; Gaz. vol. 146; p. 779.
- Pitman connection for shakers. A. L. Parrish and J. H. Lamoreux. No. 914,504; Mar. 9; Sp. p. 1783; Gaz. vol. 140; p. 306.
- Pitman-drive. A. M. Anderson and C. Quesnell. No. 920,000; Apr. 27; Sp. p. 6493; Gaz. vol. 141; p. 1108.
- Pitman-head. E. C. Wilson. No. 919,669; Apr. 27; Sp. p. 5822; Gaz. vol. 141; p. 999.
- Pitman safety device. J. F. Thiessen and E. Becker. No. 912,046; Feb. 9; Sp. p. 2111; Gaz. vol. 139; p. 364.
- Pivot-crane, Adjustable counterbalance. W. Van Wie. No. 911,632; Feb. 9; Sp. p. 1204; Gaz. vol. 139; p. 228.
- Pivotal connection. F. R. Kunkel. No. 928,772; July 20; Sp. p. 4288; Gaz. vol. 144; p. 747.
- Placer-machine. J. R. Wood. No. 912,766; Feb. 16; Sp. p. 3647; Gaz. vol. 139; p. 643.
- Placer-mining machine. A. L. Corson. No. 909,553; Jan. 12; Sp. p. 2261; Gaz. vol. 138; p. 401.
- Placket-closure. E. A. Thomas. No. 914,897; Mar. 9; Sp. p. 2605; Gaz. vol. 140; p. 435.
- Plaiting mechanism. J. Gribbel and C. Atherton. No. 931,755; Aug. 24; Sp. p. 4513; Gaz. vol. 145; p. 785.
- Plane. W. L. Fischer. No. 910,807; Jan. 26; Sp. p. 4878; Gaz. vol. 138; p. 880.
- Plane. H. M. Wood. No. 917,231; Apr. 6; Sp. p. 548; Gaz. vol. 141; p. 96.
- Plane. C. E. Mitchell and E. A. Schade. No. 930,307; Aug. 3; Sp. p. 1378; Gaz. vol. 145; p. 229.
- Plane, Bench-. W. H. J. Vander Toorn. No. 917,915; Apr. 13; Sp. p. 1930; Gaz. vol. 141; p. 349.
- Plane, Bench-. J. Lund. No. 934,924; Sept. 21; Sp. p. 3916; Gaz. vol. 146; p. 679.
- Plane, Carpenter's. M. M. Beahm. No. 932,672; Aug. 31; Sp. p. 6450; Gaz. vol. 145; p. 1113.
- Plane, Combination woodworking-. M. L. Carter. No. 943,178; Dec. 14; Sp. p. 2463; Gaz. vol. 149; p. 419.
- Plane, Rabbet-. F. A. Shontz. No. 932,417; Aug. 24; Sp. p. 5873; Gaz. vol. 145; p. 1003.
- Plane, Sandpapering-. A. May. No. 932,879; Aug. 31; Sp. p. 6867; Gaz. vol. 145; p. 1179.
- Plane, Sandpapering hand-. C. Delsee. No. 915,746; Mar. 23; Sp. p. 4334; Gaz. vol. 140; p. 771.
- Plane, Woodworker's. J. H. Brown. No. 936,085; Oct. 5; Sp. p. 1026; Gaz. vol. 147; p. 155.
- Planes and other tools, Handle construction for. C. B. Stanley. No. 930,243; Aug. 3; Sp. p. 1275; Gaz. vol. 145; p. 242.
- Planer. J. and J. Albert. No. 925,071; June 15; Sp. p. 4221; Gaz. vol. 143; p. 719.
- Planer attachment. H. H. Morgan. No. 918,889; Apr. 20; Sp. p. 4024; Gaz. vol. 141; p. 706.
- Planer cutter-head, Wood-. J. W. and G. B. Burns. No. 932,373; Aug. 24; Sp. p. 5790; Gaz. vol. 145; p. 539.
- Planer feed mechanism, Wood-. H. A. Perkins. No. 916,934; Mar. 30; Sp. p. 6621; Gaz. vol. 140; p. 1180.
- Planer feed-roll. B. D. Stevens. No. 913,924; Mar. 2; Sp. p. 547; Gaz. vol. 140; p. 88.
- Planer for narrow work, Wood-. C. W. H. Blood. No. 920,904; May 11; Sp. p. 1661; Gaz. vol. 142; p. 296.
- Planer for narrow work, Wood-. C. W. H. Blood. (Reissue). No. 12,986; July 13; Sp. p. 3166; Gaz. vol. 144; p. 989.
- Planer-head. J. W. Gray. No. 934,436; Sept. 21; Sp. p. 2965; Gaz. vol. 146; p. 517.
- Planer-head-adjusting means. H. B. Ross. No. 919,958; Apr. 27; Sp. p. 6406; Gaz. vol. 141; p. 1094.
- Planer, Metal-. H. Baerbalck. No. 923,930; June 8; Sp. p. 1839; Gaz. vol. 143; p. 307.
- Planer-tool. A. F. Liden. No. 943,086; Dec. 14; Sp. p. 2295; Gaz. vol. 149; p. 389.
- Planers and other machines, Electrical controlling means for. A. P. Steckel. No. 936,577; Oct. 12; Sp. p. 2561; Gaz. vol. 147; p. 341.
- Planers, Feed-roll-controlling mechanism for wood-. H. A. Perkins. No. 936,659; Oct. 12; Sp. p. 2238; Gaz. vol. 147; p. 371.
- Planers, Feeder for jointers and surface-. N. J. Billstrom. No. 928,930; July 27; Sp. p. 4614; Gaz. vol. 144; p. 828.
- Planers, lathes, &c., Cutting-tool for. C. R. Middleton. No. 936,793; Oct. 12; Sp. p. 2494; Gaz. vol. 147; p. 416.
- Planers, Side-head tool-holder for metal-. C. Meier and G. Langen. No. 937,707; Oct. 19; Sp. p. 4392; Gaz. vol. 147; p. 746.
- Planing and sandpapering machine. F. Harbers. No. 932,466; Aug. 31; Sp. p. 5998; Gaz. vol. 145; p. 1042.
- Planing curvilinear surfaces. W. G. Burgess. No. 918,504; Apr. 20; Sp. p. 3146; Gaz. vol. 141; p. 577.
- Planing device, Meat-block-. D. F. Dempsey. No. 932,449; Aug. 31; Sp. p. 5950; Gaz. vol. 145; p. 1037.
- Planing-machine. J. R. Blakeslee. No. 927,448; July 6; Sp. p. 1506; Gaz. vol. 144; p. 250.
- Planing-machine. W. A. Robertson. No. 939,093; Nov. 2; Sp. p. 1364; Gaz. vol. 148; p. 222.
- Planing-machine cutter-bar. W. C. Bundschuh. No. 919,287; Apr. 20; Sp. p. 4978; Gaz. vol. 141; p. 835.
- Planing-machine cutter-head. H. A. Perkins and F. H. Clement. No. 910,413; Jan. 19; Sp. p. 4053; Gaz. vol. 138; p. 726.
- Planing-machine, Rotary. E. J. Hannum. No. 914,948; Mar. 9; Sp. p. 2690; Gaz. vol. 140; p. 451.
- Planing-machines and other reciprocating tools, Electrical apparatus for working. A. D. Williamson. No. 919,411; Apr. 27; Sp. p. 5256; Gaz. vol. 141; p. 911.
- Planing, shaping, or slotting machine with reciprocating strokes of variable lengths. J. H. Wicksteed. No. 932,734; Aug. 31; Sp. p. 6577; Gaz. vol. 145; p. 1133.
- Planetarium. F. J. and W. F. Trippensee. No. 937,892; Oct. 26; Sp. p. 4780; Gaz. vol. 147; p. 826.
- Planetary transmission mechanism. A. P. Brush. No. 944,597; Dec. 28; Sp. p. 5546; Gaz. vol. 149; p. 962.
- Planimeter. S. F. Connolly and V. Osborne. No. 917,547; Apr. 6; Sp. p. 1151; Gaz. vol. 141; p. 201.
- Planimeter. W. F. Durand. No. 927,338; July 6; Sp. p. 1281; Gaz. vol. 144; p. 212.
- Plant-protector. S. D. Scott. No. 912,184; Feb. 9; Sp. p. 2354; Gaz. vol. 139; p. 407.
- Plant-protector. J. P. Duval. No. 914,708; Mar. 9; Sp. p. 2222; Gaz. vol. 140; p. 373.
- Plant-protector. E. R. Drake. No. 932,972; Aug. 31; Sp. p. 7032; Gaz. vol. 145; p. 1209.
- Plant-protector. G. Rozendal. No. 935,691; Oct. 5; Sp. p. 148; Gaz. vol. 147; p. 24.
- Plant-protector. W. L. Baldrige. No. 936,401; Oct. 12; Sp. p. 1673; Gaz. vol. 147; p. 283.
- Plant-pulling implement. W. H. Miller. No. 941,644; Nov. 30; Sp. p. 7021; Gaz. vol. 148; p. 1188.
- Plant, Retting. A. Cappelaere. No. 908,840; Jan. 5; Sp. p. 853; Gaz. vol. 138; p. 134.
- Plant-setter. W. J. and R. H. Rhoades. No. 934,095; Sept. 14; Sp. p. 2295; Gaz. vol. 146; p. 377.
- Plant-sprinkling apparatus. J. W. Lischer. No. 910,400; Jan. 19; Sp. p. 4019; Gaz. vol. 138; p. 722.



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- Plant-support. W. H. Woerner. No. 915,146; Mar. 16; Sp. p. 3098; Gaz. vol. 140; p. 543.  
 Plant-support. B. K. Pittman and E. N. Kring. No. 917,655; Apr. 6; Sp. p. 1347; Gaz. vol. 141; p. 237.  
 Plant-support. W. S. Beasley. No. 936,402; Oct. 12; Sp. p. 1674; Gaz. vol. 147; p. 284.  
 Plants and vegetables, Protecting growing. E. R. Drake. No. 932,971; Aug. 31; Sp. p. 7031; Gaz. vol. 145; p. 1209.  
 Plants, Implement for hoeing and topping growing. A. P. Granger. No. 913,953; Mar. 2; Sp. p. 619; Gaz. vol. 140; p. 98.  
 Plants, Machine for the fecundation of. J. M. Dennis. No. 926,690; June 29; Sp. p. 7464; Gaz. vol. 143; p. 1316.  
 Plants, Stay for. R. C. Meneyer. No. 926,274; June 29; Sp. p. 6683; Gaz. vol. 143; p. 1179.  
 Planter. E. M. Cole. No. 908,549; Jan. 5; Sp. p. 244; Gaz. vol. 138; p. 42.  
 Planter. J. R. Miller. No. 912,396; Feb. 16; Sp. p. 2840; Gaz. vol. 139; p. 516.  
 Planter. E. St. Aubin. No. 914,890; Mar. 9; Sp. p. 2597; Gaz. vol. 140; p. 433.  
 Planter. S. R. Hammitt. No. 918,041; Apr. 13; Sp. p. 2200; Gaz. vol. 141; p. 395.  
 Planter. W. Frede. No. 921,222; May 11; Sp. p. 2306; Gaz. vol. 142; p. 405.  
 Planter. J. H. Lee and C. P. Vittoe. No. 924,911; June 15; Sp. p. 3903; Gaz. vol. 143; p. 666.  
 Planter. U. Flannigan and W. H. Ruth. No. 926,932; July 6; Sp. p. 470; Gaz. vol. 144; p. 76.  
 Planter. C. Reutzel and H. Frey. No. 927,284; July 6; Sp. p. 1193; Gaz. vol. 144; p. 196.  
 Planter. R. R. Langley. No. 928,203; July 13; Sp. p. 3102; Gaz. vol. 144; p. 528.  
 Planter. J. H. McCoy. No. 929,971; Aug. 3; Sp. p. 734; Gaz. vol. 145; p. 118.  
 Planter. A. Brinkoeter. No. 930,831; Aug. 10; Sp. p. 2480; Gaz. vol. 145; p. 429.  
 Planter. S. H. Tinsman. No. 931,898; Aug. 24; Sp. p. 4806; Gaz. vol. 145; p. 829.  
 Planter. H. Smith. No. 935,063; Sept. 28; Sp. p. 4201; Gaz. vol. 146; p. 753.  
 Planter. T. W. Burk. No. 937,224; Oct. 19; Sp. p. 3378; Gaz. vol. 147; p. 586.  
 Planter. J. W. Trammell and H. H. Hammack. No. 942,760; Dec. 7; Sp. p. 1501; Gaz. vol. 149; p. 247.  
 Planter and fertilizer-distributor, Combined. J. W. Patty. No. 918,361; Apr. 13; Sp. p. 2833; Gaz. vol. 141; p. 502.  
 Planter and fertilizer-distributor, Combined. W. B. Parrish. No. 922,028; May 18; Sp. p. 3996; Gaz. vol. 142; p. 698.  
 Planter and fertilizer-distributor, Combined. H. Tatum. No. 923,909; June 8; Sp. p. 1805; Gaz. vol. 143; p. 300.  
 Planter and fertilizer-distributor, Combined seed-. E. P. and J. T. Patterson. No. 942,792; Dec. 7; Sp. p. 1563; Gaz. vol. 149; p. 257.  
 Planter and fertilizer-dropper. E. C. Rollins. No. 945,004; Dec. 28; Sp. p. 6391; Gaz. vol. 149; p. 1096.  
 Planter and harrow, Combined. J. M. Tucker. No. 939,761; Nov. 9; Sp. p. 2913; Gaz. vol. 148; p. 478.  
 Planter and marker, Check-row. J. Raynor and C. Foster. No. 937,176; Oct. 19; Sp. p. 3281; Gaz. vol. 147; p. 572.  
 Planter and marker, Corn-. A. W. Koage. No. 942,394; Dec. 7; Sp. p. 749; Gaz. vol. 149; p. 122.  
 Planter attachment. J. K. De Jong. No. 910,793; Jan. 26; Sp. p. 4840; Gaz. vol. 138; p. 875.  
 Planter attachment. W. C. Reynolds. No. 941,951; Nov. 30; Sp. p. 7685; Gaz. vol. 148; p. 1295.  
 Planter attachment, Corn-. F. Fisher. No. 927,518; July 13; Sp. p. 1682; Gaz. vol. 144; p. 300.  
 Planter attachment, Corn-. E. A. Jones. No. 927,858; July 13; Sp. p. 2413; Gaz. vol. 144; p. 412.  
 Planter attachment, Corn-. F. A. Cook. No. 939,983; Nov. 16; Sp. p. 3384; Gaz. vol. 148; p. 583.  
 Planter attachment, Wireless check-row corn-. J. W. Trader, Jr. No. 928,822; July 20; Sp. p. 4382; Gaz. vol. 144; p. 764.  
 Planter, Check-row. O. Brown. No. 913,466; Feb. 23; Sp. p. 5029; Gaz. vol. 139; p. 898.  
 Planter, Check-row corn-. N. C. Broderson. No. 920,014; Apr. 27; Sp. p. 6519; Gaz. vol. 141; p. 1113.  
 Planter, Check-row corn-. R. Chamberlain. No. 928,358; July 20; Sp. p. 3468; Gaz. vol. 144; p. 612.  
 Planter, Check-row corn-. T. F. Donham. No. 937,287; Oct. 19; Sp. p. 3515; Gaz. vol. 147; p. 607.  
 Planter, Check-row corn-. A. Stayman. No. 943,713; Dec. 21; Sp. p. 3639; Gaz. vol. 149; p. 632.  
 Planter, Combination-. C. Linder. No. 922,922; May 25; Sp. p. 5833; Gaz. vol. 142; p. 1018.  
 Planter, Corn-. H. N. Randall. No. 913,234; Feb. 23; Sp. p. 4569; Gaz. vol. 139; p. 820.  
 Planter, Corn-. M. R. Moffitt. No. 914,858; Mar. 9; Sp. p. 2530; Gaz. vol. 140; p. 432.  
 Planter, Corn-. G. H. Young. No. 915,148; Mar. 16; Sp. p. 3100; Gaz. vol. 140; p. 544.  
 Planter, Corn-. E. E. Englund. No. 918,983; Apr. 20; Sp. p. 4220; Gaz. vol. 141; p. 737.  
 Planter, Corn-. H. H. Miller. No. 919,051; Apr. 20; Sp. p. 4343; Gaz. vol. 141; p. 759.  
 Planter, Corn-. V. F. Pavay. No. 925,375; June 15; Sp. p. 4783; Gaz. vol. 143; p. 817.  
 Planter, Corn-. D. F. Shular. No. 927,607; July 13; Sp. p. 1870; Gaz. vol. 144; p. 331.  
 Planter, Corn-. L. E. Waterman. No. 928,293; July 20; Sp. p. 3342; Gaz. vol. 144; p. 589.  
 Planter, Corn-. E. E. Towle. No. 930,106; Aug. 3; Sp. p. 1022; Gaz. vol. 145; p. 165.  
 Planter, Corn-. V. F. Pavay. No. 939,159; Nov. 2; Sp. p. 1519; Gaz. vol. 148; p. 246.  
 Planter, Corn-. C. W. Lanham. No. 939,717; Nov. 9; Sp. p. 2796; Gaz. vol. 148; p. 462.  
 Planter, Corn-. L. E. McQuitty. No. 939,853; Nov. 9; Sp. p. 3084; Gaz. vol. 148; p. 509.  
 Planter, Corn-. A. J. Anderson. No. 941,485; Nov. 30; Sp. p. 6711; Gaz. vol. 148; p. 1137.  
 Planter, Corn-. G. M. Gorman. No. 941,874; Nov. 30; Sp. p. 7542; Gaz. vol. 148; p. 1269.  
 Planter, Corn-. E. H. Snyder. No. 943,283; Dec. 14; Sp. p. 2697; Gaz. vol. 149; p. 455.  
 Planter, Cotton-. C. A. Thurmond. No. 924,204; June 8; Sp. p. 2433; Gaz. vol. 143; p. 396.  
 Planter, Cotton-. D. F. Deppe. No. 928,949; July 27; Sp. p. 4648; Gaz. vol. 144; p. 834.  
 Planter, Cotton-. T. M. Watson. No. 929,176; July 27; Sp. p. 5119; Gaz. vol. 144; p. 910.  
 Planter, Cotton and peanut. W. M. Crump. No. 932,001; Aug. 24; Sp. p. 5059; Gaz. vol. 145; p. 865.  
 Planter dropping mechanism. J. A. Anderson. No. 911,691; Feb. 9; Sp. p. 1334; Gaz. vol. 139; p. 248.  
 Planter fender, Corn-. J. Z. Hartzler. No. 932,275; Aug. 24; Sp. p. 5612; Gaz. vol. 145; p. 957.  
 Planter harrow attachment. J. E. Jackson. No. 920,470; May 4; Sp. p. 760; Gaz. vol. 142; p. 123.  
 Planter marker attachment. A. F. Buck. No. 913,098; Feb. 23; Sp. p. 4276; Gaz. vol. 139; p. 775.  
 Planter marker, Corn-. D. Loudenslager. No. 910,831; Jan. 26; Sp. p. 4912; Gaz. vol. 138; p. 887.  
 Planter marker-lifter. L. McDaniel. No. 912,484; Feb. 16; Sp. p. 3007; Gaz. vol. 139; p. 544.  
 Planter-markers, Means for operating. D. and H. Lumsden. No. 915,615; Mar. 16; Sp. p. 4036; Gaz. vol. 140; p. 697.  
 Planter marking attachment, Corn-. L. P. Lewis. No. 938,389; Oct. 26; Sp. p. 5868; Gaz. vol. 147; p. 995.  
 Planter, Onion-seed. B. V. Garwood. No. 936,883; Oct. 12; Sp. p. 2672; Gaz. vol. 147; p. 445.  
 Planter, Potato-. J. C. Wood. No. 915,527; Mar. 16; Sp. p. 3835; Gaz. vol. 140; p. 667.  
 Planter, Potato-. W. Reinecke, K. H. Landgrebe, and F. G. Wilhelm. No. 917,360; Apr. 6; Sp. p. 823; Gaz. vol. 141; p. 140.  
 Planter, Potato-. H. Hald. No. 918,536; Apr. 20; Sp. p. 3205; Gaz. vol. 141; p. 587.  
 Planter, Potato-. A. McWhorter. No. 925,826; June 22; Sp. p. 5749; Gaz. vol. 143; p. 995.  
 Planter, Potato-. W. Throener. No. 927,192; July 6; Sp. p. 1019; Gaz. vol. 144; p. 165.  
 Planter, Potato-. G. W. Nation. No. 930,877; Aug. 10; Sp. p. 2599; Gaz. vol. 145; p. 444.  
 Planter, Potato-. P. Bernhardt, T. L. Good, and C. H. Gerling. No. 931,178; Aug. 17; Sp. p. 3278; Gaz. vol. 145; p. 572.  
 Planter, Potato-. N. J. Charlson. No. 937,421; Oct. 19; Sp. p. 3820; Gaz. vol. 147; p. 651.  
 Planter, Potato-. W. A. Hall, Sr. No. 941,449; Nov. 30; Sp. p. 6634; Gaz. vol. 148; p. 1124.  
 Planter-sack Self-feeder. A. C. Simonis. No. 913,988; Mar. 2; Sp. p. 708; Gaz. vol. 140; p. 111.  
 Planter, Seed-. S. F. Dykes. No. 912,296; Feb. 16; Sp. p. 2624; Gaz. vol. 139; p. 482.  
 Planter, Seed-. W. A. Rockwell. No. 912,891; Feb. 16; Sp. p. 3860; Gaz. vol. 139; p. 681.  
 Planter, Seed-. W. L. Dodd and F. E. Comstock. No. 916,539; Mar. 30; Sp. p. 5877; Gaz. vol. 140; p. 1054.  
 Planter, Seed-. M. L. Smock. No. 926,777; July 6; Sp. p. 139; Gaz. vol. 144; p. 23.  
 Planter, Seed-. J. W. Little. No. 932,302; Aug. 24; Sp. p. 5665; Gaz. vol. 145; p. 966.  
 Planter, Seed-. G. T. Pine. No. 935,546; Sept. 28; Sp. p. 5189; Gaz. vol. 146; p. 910.  
 Planter, Seed-. W. N. Jay. No. 941,579; Nov. 30; Sp. p. 6893; Gaz. vol. 148; p. 1167.  
 Planter, Seed-. E. C. Fowler and T. E. Daly. No. 942,495; Dec. 7; Sp. p. 984; Gaz. vol. 149; p. 158.  
 Planter, Seed-. W. A. Wilson. No. 944,396; Dec. 28; Sp. p. 5066; Gaz. vol. 149; p. 891.  
 Planter seed dropping mechanism, Corn-. T. C. Roseland. No. 908,806; Jan. 5; Sp. p. 778; Gaz. vol. 138; p. 123.  
 Planter-shoe truck. W. N. Kilby and S. W. Kerr. No. 941,421; Nov. 30; Sp. p. 6580; Gaz. vol. 148; p. 1116.  
 Planter-support. O. H. Omodt. No. 930,880; Aug. 10; Sp. p. 2605; Gaz. vol. 145; p. 445.  
 Planter valve mechanism, Corn-. F. P. Murphey. No. 943,634; Dec. 14; Sp. p. 3469; Gaz. vol. 149; p. 576.  
 Planters, Adjustable wheel for corn-. J. A. Mussetter. No. 921,557; May 11; Sp. p. 2996; Gaz. vol. 142; p. 514.  
 Planters and fertilizer-distributors, Broadcast attachment for. B. F. Cranwell, C. F. F. Allan, and J. H. Trudgeon. No. 923,023; May 25; Sp. p. 6026; Gaz. vol. 142; p. 1049.  
 Planters, Automatic dropper for corn-. J. B. Erway. No. 925,469; June 22; Sp. p. 4981; Gaz. vol. 143; p. 879.  
 Planters, Differential dropper mechanism for corn-. F. P. Murphey. No. 936,471; Oct. 12; Sp. p. 1844; Gaz. vol. 147; p. 306.  
 Planters, Gage-operating mechanism for. E. G. Schreiber. No. 934,575; Sept. 21; Sp. p. 3220; Gaz. vol. 146; p. 562.  
 Planters, Gage-wheel for corn-. W. T. Ellis. No. 940,382; Nov. 16; Sp. p. 4324; Gaz. vol. 148; p. 724.  
 Planters, Shoe-gage for. P. A. Keller. No. 929,447; July 27; Sp. p. 5684; Gaz. vol. 144; p. 995.  
 Planters, Trip mechanism for corn-. H. E. Herbrandson. No. 944,189; Dec. 21; Sp. p. 4627; Gaz. vol. 149; p. 793.



*Alphabetical list of inventions—Continued.*

- Planters, Valve mechanism for corn-. F. P. Murphey. No. 943,441; Dec. 14; Sp. p. 3014; Gaz. vol. 149; p. 508.
- Planting-machine. B. C. McCoy. No. 922,940; May 25; Sp. p. 5876; Gaz. vol. 142; p. 1024.
- Planting-machine. R. R. Langley. No. 927,555; July 13; Sp. p. 1742; Gaz. vol. 144; p. 311.
- Planting-machine. W. F. Ilgenfritz. No. 933,178; Sept. 7; Sp. p. 307; Gaz. vol. 146; p. 50.
- Planting-machine, Potato-. W. A. Hall, Sr. No. 940,147; Nov. 16; Sp. p. 3767; Gaz. vol. 148; p. 642.
- Planté negative plates, Treating or impregnating. H. Rodman. No. 944,822; Dec. 28; Sp. p. 6027; Gaz. vol. 149; p. 1037.
- Plaque-cleaning machine. A. L. Bausman. No. 928,730; July 20; Sp. p. 4208; Gaz. vol. 144; p. 733.
- Plaque-hanger. M. Kaufman. No. 928,132; July 13; Sp. p. 2946; Gaz. vol. 144; p. 503.
- Plaque-stretching machine. A. L. Bausman. No. 927,928; July 13; Sp. p. 2566; Gaz. vol. 144; p. 437.
- Plaster-board. L. E. Fishack. No. 911,223; Feb. 2; Sp. p. 394; Gaz. vol. 139; p. 68.
- Plaster-board. K. Friedman, J. B. Blumenfeld, and L. Strimban. No. 912,664; Feb. 16; Sp. p. 3385; Gaz. vol. 139; p. 607.
- Plaster-board. H. Shamlah and G. Witty. No. 914,317; Mar. 2; Sp. p. 1414; Gaz. vol. 140; p. 218.
- Plaster-board. T. C. Kennedy. No. 932,141; Aug. 24; Sp. p. 5350; Gaz. vol. 145; p. 912.
- Plaster board and block. H. W. Bell. No. 932,098; Aug. 24; Sp. p. 5267; Gaz. vol. 145; p. 898.
- Plaster-boards, Machine for manufacturing. J. R. Spear. No. 928,078; July 13; Sp. p. 2852; Gaz. vol. 144; p. 436.
- Plaster, Structural surface for receiving and holding. A. White. No. 921,767; May 18; Sp. p. 3450; Gaz. vol. 142; p. 613.
- Plasterer's darby. A. Engquist. No. 917,571; Apr. 6; Sp. p. 1189; Gaz. vol. 141; p. 208.
- Plastering-machine. W. A. Warson. No. 916,811; Mar. 30; Sp. p. 6365; Gaz. vol. 140; p. 1138.
- Plastic bodies, Automatic machine for forming. L. L. Burton. No. 917,748; Apr. 13; Sp. p. 1555; Gaz. vol. 141; p. 294.
- Plastic composition. J. H. Mills. No. 930,777; Aug. 10; Sp. p. 2370; Gaz. vol. 145; p. 410.
- Plastic covering on floors, Machine for leveling. M. Lischke. No. 910,073; Jan. 19; Sp. p. 3301; Gaz. vol. 138; p. 609.
- Plastic material and making same. W. E. Carson. No. 915,060; Mar. 9; Sp. p. 2873; Gaz. vol. 140; p. 487.
- Plastic material into charges, Machine for dividing. G. E. Gowdy. No. 938,051; Oct. 26; Sp. p. 5113; Gaz. vol. 147; p. 879.
- Plastic material, Machine for dividing. G. E. Gowdy. No. 938,050; Oct. 26; Sp. p. 5108; Gaz. vol. 147; p. 879.
- Plastic material, Machine for forming. W. T. Price. No. 929,981; Aug. 3; Sp. p. 758; Gaz. vol. 145; p. 121.
- Plastic material, Machine for forming. G. S. and P. H. A. Balsley. No. 942,238; Dec. 7; Sp. p. 451; Gaz. vol. 149; p. 69.
- Plastic materials, Machine for forming articles of. H. Lippold and H. C. Lord. No. 913,664; Feb. 23; Sp. p. 5476; Gaz. vol. 139; p. 964.
- Plastic materials, Making articles of. O. G. Diefendorf. No. 934,395; Sept. 14; Sp. p. 2873; Gaz. vol. 146; p. 480.
- Plastic materials, Mold for compressing slightly-. J. Draenert. No. 923,780; June 1; Sp. p. 1509; Gaz. vol. 143; p. 227.
- Plastic materials, Nested dies for forming bodies from. P. J. Fish, Sr. No. 938,047; Oct. 26; Sp. p. 5102; Gaz. vol. 147; p. 878.
- Plastic or adhesive material, Machine for applying. O. Ashton. No. 940,419; Nov. 16; Sp. p. 4398; Gaz. vol. 148; p. 736.
- Plastic product. L. Desvauz and H. Allaire. No. 929,660; Aug. 3; Sp. p. 33; Gaz. vol. 145; p. 7.
- Plate and hot-dish lifter. J. A. Kennedy. No. 913,015; Feb. 23; Sp. p. 4115; Gaz. vol. 139; p. 847.
- Plate attachment, Pie-. H. Isaacs. No. 941,074; Nov. 23; Sp. p. 5802; Gaz. vol. 148; p. 979.
- Plate-bar-heating furnace. L. C. Steele. No. 941,738; Nov. 30; Sp. p. 7241; Gaz. vol. 148; p. 1221.
- Plate, Butter-. G. L. Morrison. No. 917,962; Apr. 13; Sp. p. 2018; Gaz. vol. 141; p. 367.
- Plate-clamp. A. J. Ford. No. 915,088; Mar. 16; Sp. p. 2947; Gaz. vol. 140; p. 524.
- Plate dishing and danging machine. C. Gabriel. No. 942,062; Dec. 7; Sp. p. 39; Gaz. vol. 149; p. 9.
- Plate-drying apparatus. H. C. MacConnell. No. 944,800; Dec. 28; Sp. p. 5971; Gaz. vol. 149; p. 1029.
- Plate-handling apparatus. J. F. Schnabel. No. 916,374; Mar. 23; Sp. p. 5489; Gaz. vol. 140; p. 974.
- Plate-holder. H. B. Rouse. No. 921,005; May 11; Sp. p. 1853; Gaz. vol. 142; p. 328.
- Plate-holder. W. S. Warnock. No. 934,249; Sept. 14; Sp. p. 2601; Gaz. vol. 146; p. 431.
- Plate-holder. L. M. Siegel. No. 938,082; Oct. 26; Sp. p. 5198; Gaz. vol. 147; p. 890.
- Plate-holder. R. Kroedel. No. 940,030; Nov. 16; Sp. p. 3472; Gaz. vol. 148; p. 600.
- Plate, Hot-. W. E. Jordan. No. 930,293; Aug. 3; Sp. p. 1361; Gaz. vol. 145; p. 225.
- Plate-lifter. H. P. Magone. No. 916,175; Mar. 23; Sp. p. 5131; Gaz. vol. 140; p. 908.
- Plate-lifter. A. Auger. No. 916,524; Mar. 30; Sp. p. 5848; Gaz. vol. 140; p. 1049.
- Plate-lifter. I. E. Spry. No. 923,906; June 8; Sp. p. 1802; Gaz. vol. 143; p. 300.
- Plate lifter, Pie-. H. L. Blue. No. 918,729; Apr. 20; Sp. p. 3689; Gaz. vol. 141; p. 654.
- Plate-machine. T. J. McCullough. No. 925,213; June 15; Sp. p. 4497; Gaz. vol. 143; p. 668.
- Plate or pan lifter. S. A. Holman. No. 937,305; Oct. 19; Sp. p. 3545; Gaz. vol. 147; p. 613.
- Plate-rack loading device. F. W. Barner. No. 932,091; Aug. 24; Sp. p. 5249; Gaz. vol. 145; p. 895.
- Plate, Wear-. J. E. Hovendick. No. 911,986; Feb. 9; Sp. p. 1967; Gaz. vol. 139; p. 345.
- Plates and sheets, Manufacture of. D. S. Brookman. No. 941,854; Nov. 30; Sp. p. 7505; Gaz. vol. 148; p. 1262.
- Plates and sheets, Manufacture of. S. A. Davis. No. 941,861; Nov. 30; Sp. p. 7517; Gaz. vol. 148; p. 1264.
- Plates, Apparatus for the manufacture of tin or like. S. C. Stiner and R. H. Kehring. No. 930,501; Aug. 10; Sp. p. 1766; Gaz. vol. 145; p. 318.
- Plates for X-ray machines, Manufacture of generating-. H. H. Williams. No. 914,623; Mar. 9; Sp. p. 2032; Gaz. vol. 140; p. 346.
- Plates, Making half-tone. J. Hartnett, Jr. No. 940,808; Nov. 23; Sp. p. 5250; Gaz. vol. 148; p. 891.
- Plates, Making ribbed. F. H. Richards. No. 925,028; June 15; Sp. p. 4149; Gaz. vol. 143; p. 706.
- Plated metal and making the same. J. Wilder. No. 942,803; Dec. 7; Sp. p. 1582; Gaz. vol. 149; p. 260.
- Plating-machine. H. F. Dunbar. No. 940,990; Nov. 16; Sp. p. 3401; Gaz. vol. 148; p. 585.
- Plating-rack, Electrical. D. B. Moyer. No. 915,786; Mar. 23; Sp. p. 4409; Gaz. vol. 140; p. 782.
- Platen-carriage attachment. A. Pentecost. No. 918,587; Apr. 20; Sp. p. 3316; Gaz. vol. 141; p. 603.
- Platen driving mechanism, Planer-. J. H. B. Bryan. No. 918,652; Apr. 20; Sp. p. 3500; Gaz. vol. 141; p. 626.
- Platen-press. J. Thomson. No. 914,531; Mar. 9; Sp. p. 1846; Gaz. vol. 140; p. 315.
- Platen-press automatic register-gage. H. E. Stanford. No. 909,249; Jan. 12; Sp. p. 1672; Gaz. vol. 138; p. 301.
- Platen-press paper-feed guide. H. H. Strait. No. 910,155; Jan. 19; Sp. p. 3466; Gaz. vol. 138; p. 634.
- Platens, Work-holder for flat. G. W. Donning. No. 929,837; Aug. 3; Sp. p. 443; Gaz. vol. 145; p. 73.
- Platform, Dumping-. S. A. Morehouse. No. 921,437; May 11; Sp. p. 2772; Gaz. vol. 142; p. 476.
- Platform, Self-adjusting. J. F. Logan. No. 937,375; Oct. 19; Sp. p. 3696; Gaz. vol. 147; p. 635.
- Platform-support. A. Vandermark. No. 944,835; Dec. 28; Sp. p. 6050; Gaz. vol. 149; p. 1041.
- Platforms, System for braking movable. C. C. de Mocomble. No. 934,085; Sept. 14; Sp. p. 2279; Gaz. vol. 146; p. 374.
- Platter, Serving-. E. H. H. Smith. No. 924,849; June 15; Sp. p. 3767; Gaz. vol. 143; p. 645.
- Playing-attachment adjustable tracker-board, Pneumatic-. J. H. Dickinson. No. 915,943; Mar. 23; Sp. p. 4691; Gaz. vol. 140; p. 833.
- Playing-attachment adjustable tracker, Pneumatic-. J. H. Dickinson. No. 915,942; Mar. 23; Sp. p. 4690; Gaz. vol. 140; p. 833.
- Pneum-action. J. Rehbock. No. 935,271; Sept. 28; Sp. p. 4618; Gaz. vol. 146; p. 821.
- Pneum-machine. C. E. Schmidt. No. 926,511; June 29; Sp. p. 7118; Gaz. vol. 143; p. 1256.
- Pliers. F. Cruze. No. 917,417; Apr. 6; Sp. p. 921; Gaz. vol. 141; p. 160.
- Pliers. J. Irwin. No. 924,357; June 8; Sp. p. 2751; Gaz. vol. 143; p. 448.
- Pliers. H. F. Kellemen. No. 942,504; Dec. 7; Sp. p. 1004; Gaz. vol. 149; p. 161.
- Pliers. W. Cronk. No. 942,549; Dec. 7; Sp. p. 1092; Gaz. vol. 149; p. 177.
- Pliers. P. Broadbooks. No. 943,381; Dec. 14; Sp. p. 2899; Gaz. vol. 149; p. 488.
- Pliers, End-cutting. G. E. Burtcher. No. 921,080; May 11; Sp. p. 2017; Gaz. vol. 142; p. 355.
- Pliers, Jeweler's. B. Feagle. No. 933,749; Sept. 14; Sp. p. 1622; Gaz. vol. 146; p. 267.
- Pliers, Lifting-. F. Johnson. No. 944,966; Dec. 28; Sp. p. 6311; Gaz. vol. 149; p. 1084.
- Pliers, Wire-skinning. G. W. Goodridge. No. 941,192; Nov. 23; Sp. p. 6075; Gaz. vol. 148; p. 1019.
- Plow. T. D. Sims. No. 909,241; Jan. 12; Sp. p. 1660; Gaz. vol. 138; p. 299.
- Plow. C. B. Clark. No. 909,848; Jan. 12; Sp. p. 2836; Gaz. vol. 138; p. 500.
- Plow. J. Buchanan. No. 910,496; Jan. 26; Sp. p. 4234; Gaz. vol. 138; p. 779.
- Plow. A. G. Erickson. No. 910,803; Jan. 26; Sp. p. 4864; Gaz. vol. 138; p. 878.
- Plow. O. Fischer. No. 910,999; Jan. 26; Sp. p. 5220; Gaz. vol. 138; p. 940.
- Plow. N. Giusto. No. 911,229; Feb. 2; Sp. p. 409; Gaz. vol. 139; p. 71.
- Plow. W. L. Paul and R. J. Altgelt. No. 914,506; Mar. 9; Sp. p. 1785; Gaz. vol. 140; p. 307.
- Plow. W. M. Hunter. No. 915,297; Mar. 16; Sp. p. 3393; Gaz. vol. 140; p. 592.
- Plow. H. A. Ludtke. No. 916,466; Mar. 30; Sp. p. 5714; Gaz. vol. 140; p. 1031.
- Plow. C. L. Avery. No. 921,578; May 11; Sp. p. 3033; Gaz. vol. 142; p. 521.
- Plow. A. Pankey. No. 921,730; May 18; Sp. p. 3371; Gaz. vol. 142; p. 600.
- Plow. R. T. Huggins. No. 922,905; May 25; Sp. p. 5801; Gaz. vol. 142; p. 1012.
- Plow. G. G. Floyd. No. 923,964; June 8; Sp. p. 1905; Gaz. vol. 143; p. 318.
- Plow. A. L. Covey. No. 924,222; June 8; Sp. p. 2476; Gaz. vol. 143; p. 402.
- Plow. T. Parks and J. Coughlin. No. 924,371; June 8; Sp. p. 2782; Gaz. vol. 143; p. 453.
- Plow. A. C. Rosencranz. No. 924,583; June 8; Sp. p. 3188; Gaz. vol. 143; p. 521.



*Alphabetical list of inventions—Continued.*

- Plow. J. R. Rossetter. No. 925,134; June 15; Sp. p. 4346; Gaz. vol. 143; p. 741.  
 Plow. R. H. Cadenhead. No. 926,544; June 29; Sp. p. 7173; Gaz. vol. 143; p. 1267.  
 Plow. J. McEntee. No. 927,269; July 6; Sp. p. 1169; Gaz. vol. 144; p. 191.  
 Plow. N. J. Lindesmith. No. 927,363; July 6; Sp. p. 1321; Gaz. vol. 144; p. 219.  
 Plow. P. D. Arras. No. 927,703; July 13; Sp. p. 2086; Gaz. vol. 144; p. 362.  
 Plow. E. B. James. No. 931,125; Aug. 17; Sp. p. 3159; Gaz. vol. 145; p. 553.  
 Plow. S. A. Estabrook, Jr. No. 932,256; Aug. 24; Sp. p. 5579; Gaz. vol. 145; p. 950.  
 Plow. J. Buchanan. No. 933,529; Sept. 7; Sp. p. 1173; Gaz. vol. 146; p. 169.  
 Plow. J. W. Newton. No. 936,345; Oct. 12; Sp. p. 1541; Gaz. vol. 147; p. 264.  
 Plow. J. Brey. No. 936,599; Oct. 12; Sp. p. 2108; Gaz. vol. 147; p. 350.  
 Plow. F. R. Mosher. No. 938,686; Nov. 2; Sp. p. 533; Gaz. vol. 148; p. 82.  
 Plow. C. Christensen. No. 938,975; Nov. 2; Sp. p. 1135; Gaz. vol. 148; p. 182.  
 Plow. H. H. Julich. No. 939,704; Nov. 9; Sp. p. 2774; Gaz. vol. 148; p. 458.  
 Plow. B. T. Bethune. No. 941,224; Nov. 23; Sp. p. 6141; Gaz. vol. 148; p. 1030.  
 Plow. E. M. Buckhannon. No. 941,614; Nov. 30; Sp. p. 6965; Gaz. vol. 148; p. 1178.  
 Plow. J. T. Gantt. No. 942,849; Dec. 7; Sp. p. 1704; Gaz. vol. 149; p. 276.  
 Plow. C. W. and A. W. Landers. No. 942,918; Dec. 14; Sp. p. 1898; Gaz. vol. 149; p. 331.  
 Plow. H. Moore. No. 943,092; Dec. 14; Sp. p. 2305; Gaz. vol. 149; p. 391.  
 Plow. C. C. Whittington. No. 943,584; Dec. 14; Sp. p. 3308; Gaz. vol. 149; p. 558.  
 Plow. G. W. Bristow and G. O. Doty. No. 943,859; Dec. 21; Sp. p. 3923; Gaz. vol. 149; p. 683.  
 Plow. W. J. Doyle, Jr. No. 944,358; Dec. 28; Sp. p. 4989; Gaz. vol. 149; p. 878.  
 Plow. W. W. Giddens. No. 944,427; Dec. 28; Sp. p. 5140; Gaz. vol. 149; p. 902.  
 Plow and attachment, Sulky-. A. M. Belding. No. 922,246; May 18; Sp. p. 4430; Gaz. vol. 142; p. 769.  
 Plow and harrow, Combined. W. E. Cartledge. No. 932,961; Aug. 31; Sp. p. 7014; Gaz. vol. 145; p. 1206.  
 Plow and planter, Combined. W. A. Shearer and L. Kirlin. No. 936,483; Oct. 12; Sp. p. 1874; Gaz. vol. 147; p. 310.  
 Plow and scraper. W. A. Campbell. No. 912,808; Feb. 16; Sp. p. 3734; Gaz. vol. 139; p. 657.  
 Plow and sweep holder. A. C. French. No. 911,586; Feb. 9; Sp. p. 1096; Gaz. vol. 139; p. 214.  
 Plow attachment. N. C. Y. Gundholm. No. 918,445; Apr. 13; Sp. p. 3005; Gaz. vol. 141; p. 529.  
 Plow attachment. F. W. Meyer. No. 925,008; June 15; Sp. p. 4108; Gaz. vol. 143; p. 699.  
 Plow attachment. J. I. Ellis. No. 926,930; July 6; Sp. p. 468; Gaz. vol. 144; p. 76.  
 Plow attachment. J. A. Batson. No. 927,479; July 13; Sp. p. 1590; Gaz. vol. 144; p. 286.  
 Plow attachment. C. Christianson. No. 930,266; Aug. 3; Sp. p. 1307; Gaz. vol. 145; p. 216.  
 Plow attachment. J. E. Burton. No. 935,739; Oct. 5; Sp. p. 243; Gaz. vol. 147; p. 39.  
 Plow attachment. K. R. Van Winkle. No. 936,962; Oct. 12; Sp. p. 2827; Gaz. vol. 147; p. 471.  
 Plow attachment. C. W. De Kay. No. 938,647; Nov. 2; Sp. p. 442; Gaz. vol. 148; p. 68.  
 Plow attachment. P. Flynn. No. 938,839; Nov. 2; Sp. p. 835; Gaz. vol. 148; p. 134.  
 Plow attachment. C. Williams. No. 943,762; Dec. 21; Sp. p. 3729; Gaz. vol. 149; p. 649.  
 Plow attachment. F. Neuville. No. 944,206; Dec. 21; Sp. p. 4654; Gaz. vol. 149; p. 797.  
 Plow, Beet-. L. Breneis. No. 928,736; July 20; Sp. p. 4223; Gaz. vol. 144; p. 735.  
 Plow-blade. O. S. Jewett. No. 930,763; Aug. 10; Sp. p. 2347; Gaz. vol. 145; p. 406.  
 Plow-bolt. S. J. Atkins. No. 919,303; Apr. 27; Sp. p. 5038; Gaz. vol. 141; p. 875.  
 Plow, Disk. E. H. Sholar and W. W. Pace. No. 941,817; Nov. 30; Sp. p. 7419; Gaz. vol. 148; p. 1248.  
 Plow, Ditching-. J. M. Cornelius. No. 935,464; Sept. 28; Sp. p. 4997; Gaz. vol. 146; p. 882.  
 Plow, Ditching-. C. F. Sedell. No. 943,897; Dec. 21; Sp. p. 4008; Gaz. vol. 149; p. 695.  
 Plow draft attachment. C. F. Strnad. No. 936,829; Oct. 12; Sp. p. 2551; Gaz. vol. 147; p. 428.  
 Plow drag attachment. J. E. Burton. No. 935,788; Oct. 5; Sp. p. 240; Gaz. vol. 147; p. 39.  
 Plow fender, Corn-. E. F. Kolosick. No. 918,332; Apr. 13; Sp. p. 2777; Gaz. vol. 141; p. 492.  
 Plow fender, Double-shovel-. K. B. Faris and J. D. Walker. No. 941,772; Nov. 30; Sp. p. 7319; Gaz. vol. 148; p. 1233.  
 Plow-foot. R. M. Frederick. No. 943,925; Dec. 21; Sp. p. 4077; Gaz. vol. 149; p. 706.  
 Plow, Gang-. H. C. Clay. No. 911,703; Feb. 9; Sp. p. 1355; Gaz. vol. 139; p. 252.  
 Plow, Gang-. G. W. Barnett. No. 916,406; Mar. 30; Sp. p. 5576; Gaz. vol. 140; p. 1010.  
 Plow, Gang-. W. Hubbell and C. L. Hilton. No. 916,872; Mar. 30; Sp. p. 6480; Gaz. vol. 140; p. 1157.  
 Plow, Gang-. A. Mecham. No. 918,182; Apr. 13; Sp. p. 2467; Gaz. vol. 141; p. 442.  
 Plow, Gang-. C. Smart. No. 933,858; Sept. 14; Sp. p. 1832; Gaz. vol. 146; p. 303.  
 Plow, Gang-. J. O. Fjarli. No. 936,768; Oct. 12; Sp. p. 2447; Gaz. vol. 147; p. 407.  
 Plow, Gang-. L. A. Hubert. No. 939,132; Nov. 2; Sp. p. 1450; Gaz. vol. 148; p. 236.  
 Plow-handle adjustment. J. E. Newberry. No. 940,609; Nov. 16; Sp. p. 4791; Gaz. vol. 148; p. 798.  
 Plow harrow attachment. J. F. Barbee. No. 910,162; Jan. 19; Sp. p. 3477; Gaz. vol. 138; p. 636.  
 Plow, harrow, &c., attachment. R. L. Stalans. No. 916,212; Mar. 23; Sp. p. 5194; Gaz. vol. 140; p. 920.  
 Plow harrow attachment. S. Seitzer, Jr. No. 935,417; Sept. 28; Sp. p. 4908; Gaz. vol. 146; p. 867.  
 Plow, harrow, &c., riding attachment. H. P. Curtright. No. 926,548; June 29; Sp. p. 7179; Gaz. vol. 143; p. 1269.  
 Plow-hitch. S. Boyer. No. 919,121; Apr. 20; Sp. p. 4470; Gaz. vol. 141; p. 780.  
 Plow-iron. L. R. Beach. No. 910,985; Jan. 26; Sp. p. 5192; Gaz. vol. 138; p. 936.  
 Plow-landside. J. C. and J. A. Fischer. No. 921,532; May 11; Sp. p. 2948; Gaz. vol. 142; p. 507.  
 Plow-lay holder. E. Mack. No. 923,675; June 1; Sp. p. 1241; Gaz. vol. 143; p. 192.  
 Plow-lay holder. J. J. Klein. No. 935,524; Sept. 28; Sp. p. 5136; Gaz. vol. 146; p. 902.  
 Plow, Motor-. J. and W. Paterson. No. 916,774; Mar. 30; Sp. p. 6291; Gaz. vol. 140; p. 1125.  
 Plow, Motor-. A. E. Cook. No. 918,128; Apr. 13; Sp. p. 2375; Gaz. vol. 141; p. 425.  
 Plow, Motor-. W. T. Bennett. No. 941,299; Nov. 23; Sp. p. 6298; Gaz. vol. 148; p. 1053.  
 Plow-point attachment. W. L. Camp. No. 943,001; Dec. 14; Sp. p. 2095; Gaz. vol. 149; p. 360.  
 Plow-points, Automatic device for attaching and releasing. C. E. Logan and A. R. Barnett. No. 941,933; Nov. 30; Sp. p. 7656; Gaz. vol. 148; p. 1289.  
 Plow, Pulverizing-. F. Bedee. No. 935,732; Oct. 5; Sp. p. 228; Gaz. vol. 147; p. 37.  
 Plow, Reversible. W. Koehler. No. 939,271; Nov. 9; Sp. p. 1789; Gaz. vol. 148; p. 309.  
 Plow, Reversible. J. J. Nall. No. 939,617; Nov. 9; Sp. p. 2593; Gaz. vol. 148; p. 426.  
 Plow, Reversible disk. M. T. Freeman. No. 918,841; Apr. 20; Sp. p. 3908; Gaz. vol. 141; p. 689.  
 Plow, Reversible disk. E. H. Sholar. No. 941,818; Nov. 30; Sp. p. 7425; Gaz. vol. 148; p. 1248.  
 Plow, Reversible moldboard-. J. W. Buchanan. No. 943,516; Dec. 14; Sp. p. 3187; Gaz. vol. 149; p. 536.  
 Plow, Rolling-drum. J. P. Smith. No. 922,535; May 25; Sp. p. 5024; Gaz. vol. 142; p. 892.  
 Plow, Rotary. P. F. Landphere. No. 910,293; Jan. 19; Sp. p. 3811; Gaz. vol. 138; p. 686.  
 Plow, Rotary. W. F. Brown. No. 921,357; May 11; Sp. p. 2605; Gaz. vol. 142; p. 449.  
 Plow, Saw grub-. W. N. Thurman. No. 925,613; June 22; Sp. p. 5267; Gaz. vol. 143; p. 926.  
 Plow-scraper brace. T. P. and A. J. Martin. No. 915,302; Mar. 16; Sp. p. 3404; Gaz. vol. 140; p. 594.  
 Plow scraper, Reversible disk-. H. S. Austin. No. 943,372; Dec. 14; Sp. p. 2878; Gaz. vol. 149; p. 484.  
 Plow-scrappers, Set for forming. J. F. Pritchett. No. 936,353; Oct. 12; Sp. p. 1561; Gaz. vol. 147; p. 267.  
 Plow, Sidehill gang-. C. and E. G. Young. No. 929,070; July 27; Sp. p. 4897; Gaz. vol. 144; p. 874.  
 Plow, Snow-. A. Horn. No. 909,301; Jan. 12; Sp. p. 1775; Gaz. vol. 138; p. 319.  
 Plow soil-pulverizing attachment. E. M. Kramer. No. 913,216; Feb. 23; Sp. p. 4517; Gaz. vol. 139; p. 814.  
 Plow steering mechanism, Motor-. C. F. Hill. No. 933,984; Sept. 14; Sp. p. 2074; Gaz. vol. 146; p. 342.  
 Plow-stock. C. C. Rankin. No. 919,296; Apr. 20; Sp. p. 5001; Gaz. vol. 141; p. 838.  
 Plow structure. W. L. Paul. No. 920,990; May 11; Sp. p. 1825; Gaz. vol. 142; p. 324.  
 Plow, Subsoiler-. J. M. Hodges. No. 944,095; Dec. 21; Sp. p. 4426; Gaz. vol. 149; p. 763.  
 Plow, Sulky-. G. Warner. No. 910,752; Jan. 26; Sp. p. 4765; Gaz. vol. 138; p. 862.  
 Plow, Sulky-. W. L. Paul. No. 925,593; June 22; Sp. p. 5223; Gaz. vol. 143; p. 919.  
 Plow, Sulky-. I. Desy. No. 932,376; Aug. 24; Sp. p. 5794; Gaz. vol. 145; p. 990.  
 Plow, Sulky-. W. H. Lee. No. 941,887; Nov. 30; Sp. p. 7564; Gaz. vol. 148; p. 1273.  
 Plow-sweep. S. H. Carpenter. No. 938,639; Nov. 2; Sp. p. 432; Gaz. vol. 148; p. 60.  
 Plow, Traction-. G. K. Wedlake. No. 926,306; June 29; Sp. p. 6741; Gaz. vol. 143; p. 1189.  
 Plow, Wheel-. O. E. Webster. No. 917,208; Apr. 6; Sp. p. 506; Gaz. vol. 141; p. 88.  
 Plow, Wheeled. W. S. Graham. No. 912,307; Feb. 16; Sp. p. 2645; Gaz. vol. 139; p. 485.  
 Plow, Wheeled. L. E. Waterman. No. 930,249; Aug. 3; Sp. p. 1284; Gaz. vol. 145; p. 211.  
 Plows, Attachment for wheeled. H. Westmeyer. No. 930,447; Aug. 10; Sp. p. 1657; Gaz. vol. 145; p. 300.

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- Plows, Disk fender for. D. J. Welch. No. 925,541; June 22; Sp. p. 5118; Gaz. vol. 143; p. 902.  
 Plows, Foot-lift for wheeled. M. Gould. No. 933,706; Sept. 7; Sp. p. 1520; Gaz. vol. 146; p. 229.  
 Plows, Spreading attachment for. H. M. Jack. No. 941,369; Nov. 30; Sp. p. 6446; Gaz. vol. 148; p. 1098.  
 Plows, Sweep-brace for. G. M. Wheeler. No. 933,146; Sept. 7; Sp. p. 220; Gaz. vol. 146; p. 38.  
 Plows, Sweep-stock attachment for. J. H. Hewitt. No. 928,653; July 20; Sp. p. 4063; Gaz. vol. 144; p. 708.  
 Plows, Weed-turning attachment for. T. J. Baxter. No. 941,298; Nov. 23; Sp. p. 6297; Gaz. vol. 148; p. 1053.  
 Plowing-machine. D. F. Kuster and G. J. Niemann. No. 939,716; Nov. 9; Sp. p. 2794; Gaz. vol. 148; p. 461.  
 Plowshare. J. Christa. No. 923,138; June 1; Sp. p. 24; Gaz. vol. 143; p. 6.  
 Plowshare, Boltless. M. Hagerup. No. 914,139; Mar. 2; Sp. p. 1038; Gaz. vol. 140; p. 164.  
 Plowshare-holder. C. M. Durnell. No. 920,442; May 4; Sp. p. 715; Gaz. vol. 142; p. 113.  
 Plug, Attachment-. C. J. Klein. No. 935,523; Sept. 28; Sp. p. 5131; Gaz. vol. 146; p. 902.  
 Plug, Detachable. P. R. Yuzuk. No. 921,196; May 11; Sp. p. 2250; Gaz. vol. 142; p. 396.  
 Plug machine, Spike-hole-. F. V. Carman. No. 908,950; Jan. 5; Sp. p. 1054; Gaz. vol. 138; p. 170.  
 Plug, Plumber's sanitary test-. W. Turner and F. Stalla. No. 922,544; May 25; Sp. p. 5041; Gaz. vol. 142; p. 895.  
 Plug-receptacle, Armored. R. A. Schoenberg. No. 911,844; Feb. 9; Sp. p. 1598; Gaz. vol. 139; p. 297.  
 Plug, Repair-. R. H. Weber. No. 926,371; June 29; Sp. p. 6871; Gaz. vol. 143; p. 1209.  
 Plug, Separable attachment-. H. Hubbell. No. 923,179; June 1; Sp. p. 128; Gaz. vol. 143; p. 21.  
 Plug, Separable attachment-. H. Hubbell. No. 943,681; Dec. 21; Sp. p. 3567; Gaz. vol. 149; p. 621.  
 Plumb-bob. H. A. Schmidtk. No. 916,608; Mar. 30; Sp. p. 6004; Gaz. vol. 140; p. 1077.  
 Plumb-bob. W. Loeven. No. 922,171; May 18; Sp. p. 4253; Gaz. vol. 142; p. 744.  
 Plumb-bob. L. O. Sloggett. No. 928,477; July 20; Sp. p. 3699; Gaz. vol. 144; p. 650.  
 Plumb-bob and chalk-line holder. W. N. Cavileer. No. 909,846; Jan. 12; Sp. p. 2834; Gaz. vol. 138; p. 499.  
 Plumb, level, degree-finder, and surveyor's instrument. M. Hastings. No. 919,860; Apr. 27; Sp. p. 6230; Gaz. vol. 141; p. 1063.  
 Plumber's clamp. R. D. McDonald. No. 914,743; Mar. 9; Sp. p. 2303; Gaz. vol. 140; p. 385.  
 Plumber's use, Wrought-metal fitting for. W. H. Perkins. No. 944,046; Dec. 21; Sp. p. 4330; Gaz. vol. 149; p. 746.  
 Plumbing-fitting. N. G. Goreau. No. 914,944; Mar. 9; Sp. p. 2683; Gaz. vol. 140; p. 450.  
 Plumbing-fitting. F. B. Morton. No. 922,311; May 18; Sp. p. 4539; Gaz. vol. 142; p. 789.  
 Plumbing-fixture. J. W. and F. N. Palmer. No. 915,792; Mar. 23; Sp. p. 4418; Gaz. vol. 140; p. 784.  
 Plumbing-fixture. P. J. Madden. No. 931,940; Aug. 24; Sp. p. 4923; Gaz. vol. 145; p. 845.  
 Plumbing-fixture. P. J. Madden. No. 931,941; Aug. 24; Sp. p. 4925; Gaz. vol. 145; p. 845.  
 Plumbing joint-fitting and attachment. W. J. and P. M. Forster. No. 939,001; Nov. 2; Sp. p. 1190; Gaz. vol. 148; p. 190.  
 Plumbing-system fitting. C. R. Schmidt. No. 924,839; June 15; Sp. p. 3749; Gaz. vol. 143; p. 642.  
 Plumbing-trap. P. F. Murphy. No. 922,312; May 18; Sp. p. 4540; Gaz. vol. 142; p. 789.  
 Plumbing-trap. J. T. Costello. No. 941,062; Nov. 23; Sp. p. 5774; Gaz. vol. 148; p. 975.  
 Plunger. H. E. Karnes. No. 934,184; Sept. 14; Sp. p. 2476; Gaz. vol. 146; p. 408.  
 Plunger head or valve. J. E. Shutt. No. 940,900; Nov. 23; Sp. p. 5434; Gaz. vol. 148; p. 921.  
 Plunger mechanism for jig-tanks. G. H. Elmore. No. 933,307; Oct. 26; Sp. p. 5680; Gaz. vol. 147; p. 967.  
 Plungers, Stroke-regulator for. O. H. Harrison and E. A. Peterson. No. 928,193; July 13; Sp. p. 3085; Gaz. vol. 144; p. 525.  
 Plural-jet burner. C. M. Lungren. No. 928,527; July 20; Sp. p. 3800; Gaz. vol. 144; p. 666.  
 Pneumatic-action construction. C. H. Thompson. No. 912,207; Feb. 9; Sp. p. 2398; Gaz. vol. 139; p. 413.  
 Pneumatic-action, Universal. H. Meyer. No. 923,548; June 1; Sp. p. 960; Gaz. vol. 143; p. 149.  
 Pneumatic actuating unit. A. G. Gulbransen. No. 944,034; Dec. 21; Sp. p. 4308; Gaz. vol. 149; p. 743.  
 Pneumatic cleaner. S. Markstein. No. 942,037; Nov. 30; Sp. p. 7845; Gaz. vol. 148; p. 1322.  
 Pneumatic cleaning apparatus, Surface brush for. G. J. Kindel. No. 928,982; July 27; Sp. p. 4715; Gaz. vol. 144; p. 846.  
 Pneumatic cleaning implement. D. T. Williams. No. 929,066; July 27; Sp. p. 4891; Gaz. vol. 144; p. 873.  
 Pneumatic cleaning-tool. C. B. Dalzell. No. 936,222; Oct. 5; Sp. p. 1287; Gaz. vol. 147; p. 196.  
 Pneumatic-despatch apparatus. C. F. Stoddard. No. 923,458; June 1; Sp. p. 782; Gaz. vol. 143; p. 116.  
 Pneumatic-despatch apparatus. W. A. Brown. No. 933,527; Sept. 7; Sp. p. 1171; Gaz. vol. 146; p. 169.  
 Pneumatic-despatch apparatus. F. R. Taisey. No. 936,056; Oct. 5; Sp. p. 966; Gaz. vol. 147; p. 145.  
 Pneumatic-despatch system. P. R. Shill. No. 939,872; Nov. 9; Sp. p. 3121; Gaz. vol. 148; p. 515.  
 Pneumatic-despatch-tube apparatus. L. G. Bartlett. No. 919,304; Apr. 27; Sp. p. 5040; Gaz. vol. 141; p. 875.  
 Pneumatic-despatch-tube apparatus. O. Ames and I. W. Litchfield. No. 923,237; June 1; Sp. p. 240; Gaz. vol. 143; p. 40.  
 Pneumatic-despatch-tube apparatus. I. W. Litchfield. No. 923,281; June 1; Sp. p. 395; Gaz. vol. 143; p. 55.  
 Pneumatic-despatch-tube apparatus. A. W. Pearsall. No. 926,823; July 6; Sp. p. 245; Gaz. vol. 144; p. 39.  
 Pneumatic-despatch-tube apparatus. C. F. Stoddard. No. 944,469; Dec. 28; Sp. p. 5234; Gaz. vol. 149; p. 916.  
 Pneumatic-despatch-tube apparatus. C. S. Jennings. No. 944,487; Dec. 28; Sp. p. 5286; Gaz. vol. 149; p. 922.  
 Pneumatic-despatch-tube apparatus. I. W. Litchfield. No. 944,680; Dec. 28; Sp. p. 5702; Gaz. vol. 149; p. 989.  
 Pneumatic-despatch-tube-apparatus carrier. A. W. Pearsall. No. 926,824; July 6; Sp. p. 248; Gaz. vol. 144; p. 40.  
 Pneumatic-despatch-tube apparatus, Carrier for. I. W. Litchfield. No. 923,280; June 1; Sp. p. 394; Gaz. vol. 143; p. 55.  
 Pneumatic-despatch-tube system. C. F. Stoddard. No. 923,308; June 1; Sp. p. 460; Gaz. vol. 143; p. 65.  
 Pneumatic-despatch-tube system. C. F. Stoddard. No. 923,459; June 1; Sp. p. 784; Gaz. vol. 143; p. 116.  
 Pneumatic-despatch-tube system. F. H. Wolever. No. 943,329; Dec. 14; Sp. p. 2784; Gaz. vol. 149; p. 469.  
 Pneumatic-despatch-tube systems, Automatic cut-off for. F. H. Wolever. No. 929,909; Aug. 3; Sp. p. 617; Gaz. vol. 145; p. 98.  
 Pneumatic device. F. Beck. No. 926,315; June 29; Sp. p. 6756; Gaz. vol. 143; p. 1192.  
 Pneumatic drill. M. McCune and J. F. Meloun. No. 933,326; Sept. 7; Sp. p. 663; Gaz. vol. 146; p. 102.  
 Pneumatic elevator. A. Rosenthal. No. 931,221; Aug. 17; Sp. p. 3380; Gaz. vol. 145; p. 587.  
 Pneumatic engine. D. Klein. No. 926,260; June 29; Sp. p. 6654; Gaz. vol. 143; p. 1175.  
 Pneumatic feeder. E. M. Bassler. No. 930,127; Aug. 3; Sp. p. 1068; Gaz. vol. 145; p. 172.  
 Pneumatic for wind instruments. W. B. Tunstall. No. 926,686; June 29; Sp. p. 7452; Gaz. vol. 143; p. 1314.  
 Pneumatic machinery cleaner. E. Harner. No. 931,757; Aug. 24; Sp. p. 4520; Gaz. vol. 145; p. 786.  
 Pneumatic motor. R. A. Norling. No. 935,537; Sept. 28; Sp. p. 5170; Gaz. vol. 146; p. 907.  
 Pneumatic separator. H. N. Middleton. No. 940,469; Nov. 16; Sp. p. 4499; Gaz. vol. 148; p. 552.  
 Pneumatic spring. W. H. Humphreys. No. 912,376; Feb. 16; Sp. p. 2792; Gaz. vol. 139; p. 709.  
 Pneumatic, Straight-lift. W. E. Haskell. No. 923,263; June 1; Sp. p. 313; Gaz. vol. 143; p. 49.  
 Pneumatic sweeper. S. Markstein. No. 941,347; Nov. 23; Sp. p. 6384; Gaz. vol. 148; p. 1067.  
 Pneumatic-tube switch. E. W. Wallace. No. 933,406; Sept. 7; Sp. p. 835; Gaz. vol. 146; p. 130.  
 Pneumatically-operated device. W. C. Smith. No. 914,463; Mar. 9; Sp. p. 1706; Gaz. vol. 140; p. 292.  
 Pocket. J. Pensalek. No. 931,473; Aug. 17; Sp. p. 3903; Gaz. vol. 145; p. 674.  
 Pocket, Apparel-. J. Dean. No. 934,660; Sept. 21; Sp. p. 3398; Gaz. vol. 146; p. 592.  
 Pocket-book and savings-bank, Combined. E. S. Hoch. No. 940,315; Nov. 16; Sp. p. 4152; Gaz. vol. 148; p. 700.  
 Pocket-book or bill-holder. W. H. S. Fernald. No. 934,060; Sept. 14; Sp. p. 2214; Gaz. vol. 146; p. 366.  
 Pocket-book safety attachment. S. W. Wilson. No. 921,775; May 11; Sp. p. 3469; Gaz. vol. 142; p. 617.  
 Pocket-box, Combination. C. Jensen. No. 922,592; May 25; Sp. p. 5140; Gaz. vol. 142; p. 911.  
 Pocket-closure. J. W. Wilkinson. No. 926,530; June 29; Sp. p. 7148; Gaz. vol. 143; p. 1263.  
 Pocket-fastener and pencil-holder, Combined. C. R. Schafer. No. 915,892; Mar. 23; Sp. p. 4603; Gaz. vol. 140; p. 817.  
 Pocket-holder for hand-bags and similar receptacles. T. F. McMahon. No. 910,713; Jan. 26; Sp. p. 4668; Gaz. vol. 138; p. 849.  
 Pocket-holder for pens, pencils, or like articles. J. H. Cowan. No. 923,948; June 8; Sp. p. 1871; Gaz. vol. 143; p. 312.  
 Pocket-knife. G. W. Soderstrand. No. 912,197; Feb. 9; Sp. p. 2385; Gaz. vol. 139; p. 411.  
 Pocket-knife, &c. C. S. Evens. No. 916,426; Mar. 30; Sp. p. 5612; Gaz. vol. 140; p. 1017.  
 Pocket-knife. J. R. Heath. No. 921,988; May 18; Sp. p. 3913; Gaz. vol. 142; p. 684.  
 Pocket-knife. V. A. Johnson. No. 930,548; Aug. 10; Sp. p. 1907; Gaz. vol. 145; p. 336.  
 Pocket-knife. E. Mallon. No. 935,380; Sept. 28; Sp. p. 4840; Gaz. vol. 146; p. 856.  
 Pocket-knife. J. A. Nell. No. 943,990; Dec. 21; Sp. p. 4217; Gaz. vol. 149; p. 728.  
 Pocket-knife and cigar-clip, Combination. H. J. Ruppert and C. V. Dodd. No. 925,391; June 15; Sp. p. 4512; Gaz. vol. 143; p. 822.  
 Pocket-knife and opening-key therefor. J. H. Wilson. No. 915,007; Mar. 9; Sp. p. 2777; Gaz. vol. 140; p. 469.  
 Pocket-knife, Disjoinable. F. W. Klever. No. 924,796; June 15; Sp. p. 3661; Gaz. vol. 143; p. 627.  
 Pocket-knife, Take-down. B. D. Eilers. No. 929,295; July 27; Sp. p. 5396; Gaz. vol. 144; p. 949.  
 Pocket-lighter. S. B. Battey. No. 908,728; Jan. 5; Sp. p. 637; Gaz. vol. 138; p. 99.  
 Pocket-protector. J. W. Carter. No. 933,288; Sept. 7; Sp. p. 587; Gaz. vol. 146; p. 90.  
 Pocket-protector. P. A. Bendixen. No. 937,280; Oct. 19; Sp. p. 3503; Gaz. vol. 147; p. 606.  
 Pocket-receptacle. L. C. Kerrick. No. 936,327; Oct. 12; Sp. p. 1495; Gaz. vol. 147; p. 259.  
 Pocket, Safety-. C. D. Trussell. No. 924,017; June 8; Sp. p. 2015; Gaz. vol. 143; p. 334.



*Alphabetical list of inventions—Continued.*

- Pocket, Safety-. M. Pugatsky and S. Mannes. No. 924,380; June 8; Sp. p. 2807; Gaz. vol. 143; p. 456.  
 Pocket, Safety-. H. V. Geissler. No. 926,402; June 29; Sp. p. 6925; Gaz. vol. 143; p. 1220.  
 Pocket, Safety-. D. Traxler. No. 928,920; July 20; Sp. p. 4588; Gaz. vol. 144; p. 799.  
 Point and switch operating apparatus. H. F. Marriott. No. 926,668; June 29; Sp. p. 7417; Gaz. vol. 143; p. 1308.  
 Point-shifting mechanism, Electrically-operated. A. Oesterreicher. No. 926,507; June 29; Sp. p. 7107; Gaz. vol. 143; p. 1255.  
 Poison-distributor. P. and H. E. Brandt. No. 933,155; Sept. 7; Sp. p. 240; Gaz. vol. 146; p. 41.  
 Poison-distributor. H. E. Brandt. No. 934,591; Sept. 21; Sp. p. 3253; Gaz. vol. 146; p. 567.  
 Poison-indicator. J. B. Smith. No. 910,154; Jan. 19; Sp. p. 3465; Gaz. vol. 138; p. 634.  
 Poisoning product, Animal-. F. Bolduan and C. S. Dyas. No. 920,905; May 11; Sp. p. 1664; Gaz. vol. 142; p. 297.  
 Poke. F. A. Kime. No. 913,510; Feb. 23; Sp. p. 5112; Gaz. vol. 139; p. 913.  
 Poke, Animal-. M. E. and L. C. Baker. No. 924,219; June 8; Sp. p. 2472; Gaz. vol. 143; p. 401.  
 Poke, Animal-. P. W. Amlie. No. 940,573; Nov. 16; Sp. p. 4729; Gaz. vol. 148; p. 787.  
 Poke, Hog-. T. L. Douglass. No. 911,706; Feb. 9; Sp. p. 1365; Gaz. vol. 139; p. 253.  
 Pole. W. and C. Roberts. No. 919,771; Apr. 27; Sp. p. 6009; Gaz. vol. 141; p. 1033.  
 Pole. W. and C. Roberts. No. 919,772; Apr. 27; Sp. p. 6011; Gaz. vol. 141; p. 1033.  
 Pole-brace. A. R. Clarkson. No. 917,249; Apr. 6; Sp. p. 598; Gaz. vol. 141; p. 103.  
 Pole-changer. N. L. Wine. No. 924,712; June 15; Sp. p. 3478; Gaz. vol. 143; p. 598.  
 Pole-changer, Automatic. F. H. Williams and C. W. Welch. No. 931,242; Aug. 17; Sp. p. 3423; Gaz. vol. 145; p. 594.  
 Pole-climber. H. C. Hansen. No. 912,123; Feb. 9; Sp. p. 2245; Gaz. vol. 139; p. 389.  
 Pole-disconnector. J. Viet. No. 944,224; Dec. 21; Sp. p. 4685; Gaz. vol. 149; p. 803.  
 Pole-piece-fastening device. J. D. Firmin. No. 922,760; May 25; Sp. p. 5487; Gaz. vol. 142; p. 965.  
 Pole, Sheet-metal. O. M. Sciple. No. 933,854; Sept. 14; Sp. p. 1822; Gaz. vol. 146; p. 301.  
 Pole, Sheet-metal. H. A. Ruggless. No. 927,170; July 6; Sp. p. 977; Gaz. vol. 144; p. 158.  
 Pole-sleeve. W. D. Gherky. No. 913,376; Feb. 23; Sp. p. 4849; Gaz. vol. 139; p. 869.  
 Pole-sleeve. C. B. Vohnow. No. 942,761; Dec. 7; Sp. p. 1503; Gaz. vol. 149; p. 247.  
 Pole-support. T. Haines. No. 922,763; May 25; Sp. p. 5491; Gaz. vol. 142; p. 966.  
 Pole-support. J. Neff, Jr. No. 932,891; Aug. 31; Sp. p. 6891; Gaz. vol. 145; p. 1183.  
 Pole-tip. J. W. Deam. No. 929,402; July 27; Sp. p. 5620; Gaz. vol. 144; p. 986.  
 Pole-tip. J. Poul. No. 930,795; Aug. 10; Sp. p. 2403; Gaz. vol. 145; p. 416.  
 Pole tip, Wagon-. A. Fischer. No. 944,184; Dec. 21; Sp. p. 4614; Gaz. vol. 149; p. 792.  
 Pole, Vehicle-. C. B. Schlechter. No. 941,386; Nov. 30; Sp. p. 6493; Gaz. vol. 148; p. 1104.  
 Pole, Wagon-. W. H. Spillman and E. M. Barnes. No. 928,708; July 20; Sp. p. 4167; Gaz. vol. 144; p. 726.  
 Pole, Wagon-. S. C. Paulson. No. 932,807; Aug. 31; Sp. p. 6739; Gaz. vol. 145; p. 1156.  
 Poles and posts, Preserving-shield for. J. A. Cogswell. No. 933,291; Sept. 7; Sp. p. 593; Gaz. vol. 146; p. 91.  
 Polisher. I. L. Dunn. No. 922,108; May 18; Sp. p. 4145; Gaz. vol. 142; p. 724.  
 Polishing and cleaning machine. M. Forsberg. No. 920,943; May 11; Sp. p. 1741; Gaz. vol. 142; p. 309.  
 Polishing compound. F. Gay. No. 916,294; Mar. 23; Sp. p. 5345; Gaz. vol. 140; p. 947.  
 Polishing compound. W. J. Ochs. No. 937,170; Oct. 19; Sp. p. 3269; Gaz. vol. 147; p. 570.  
 Polishing device, Electrical. T. H. Rodman. No. 928,702; July 20; Sp. p. 4156; Gaz. vol. 144; p. 724.  
 Polishing implement. H. J. Miller. No. 923,871; June 8; Sp. p. 1731; Gaz. vol. 143; p. 271.  
 Polishing instrument. G. H. Marshall. No. 932,039; Aug. 24; Sp. p. 5142; Gaz. vol. 145; p. 878.  
 Polishing-machine. F. H. Dickson. No. 908,977; Jan. 5; Sp. p. 1136; Gaz. vol. 138; p. 179.  
 Polishing-machine. C. G. Ferguson. No. 912,102; Feb. 9; Sp. p. 2211; Gaz. vol. 139; p. 382.  
 Polishing-machine. P. H. Barz. No. 914,378; Mar. 9; Sp. p. 1554; Gaz. vol. 140; p. 264.  
 Polishing-machine. J. Reetz. No. 917,149; Apr. 6; Sp. p. 392; Gaz. vol. 141; p. 68.  
 Polishing-machine. E. Cavicchi. No. 931,383; Aug. 17; Sp. p. 3733; Gaz. vol. 145; p. 644.  
 Polishing machine, Felly-. O. Allen. No. 910,634; Jan. 26; Sp. p. 4526; Gaz. vol. 138; p. 825.  
 Polishing material to buffing-wheels, Device for applying. F. M. Levett. No. 914,433; Mar. 9; Sp. p. 1656; Gaz. vol. 140; p. 283.  
 Polishing-wheel. H. E. Moineau. No. 924,565; June 8; Sp. p. 3152; Gaz. vol. 143; p. 515.  
 Polychloranilin derivative. C. Schraube and E. Laudien. No. 926,023; June 22; Sp. p. 6141; Gaz. vol. 143; p. 1060.  
 Pool-ball frame. R. A. Pierce. No. 916,193; Mar. 23; Sp. p. 5163; Gaz. vol. 140; p. 914.  
 Pool or billiard table. C. E. Turner. No. 936,585; Oct. 12; Sp. p. 2079; Gaz. vol. 147; p. 345.  
 Pool register, Fin-. N. A. Archibald. No. 910,769; Jan. 26; Sp. p. 4791; Gaz. vol. 138; p. 867.  
 Pool-table. E. Snedaker. No. 928,160; July 13; Sp. p. 2996; Gaz. vol. 144; p. 512.  
 Pool-table. R. Bailey. No. 934,380; Sept. 14; Sp. p. 2844; Gaz. vol. 146; p. 475.  
 Pool-table triangles, Device for releasing. O. W. Kurth. No. 934,549; Sept. 21; Sp. p. 3169; Gaz. vol. 146; p. 553.  
 Popcorn-popper. M. H. Hoffman. No. 938,666; Nov. 2; Sp. p. 492; Gaz. vol. 148; p. 76.  
 Porcelain-facing locking device. E. W. Poole and J. H. Heffelfinger. No. 909,662; Jan. 12; Sp. p. 2479; Gaz. vol. 138; p. 440.  
 Porch-swing. G. P. and R. N. McEntire. No. 909,317; Jan. 12; Sp. p. 1810; Gaz. vol. 138; p. 324.  
 Porous material, Manufacturing a-. H. Senn and D. Klüger. No. 930,801; Aug. 10; Sp. p. 2415; Gaz. vol. 145; p. 419.  
 Porous material, Purification of. W. R. Whitney. No. 923,745; June 1; Sp. p. 1381; Gaz. vol. 143; p. 215.  
 Porous materials, Purification of. W. R. Whitney. No. 923,227; June 1; Sp. p. 222; Gaz. vol. 143; p. 36.  
 Portable bin for handling crushed stone, &c. S. F. Welch. No. 932,598; Aug. 31; Sp. p. 6281; Gaz. vol. 145; p. 1087.  
 Portable drill. W. R. Fishburn. No. 931,746; Aug. 24; Sp. p. 4492; Gaz. vol. 145; p. 782.  
 Portable elevator. G. B. Koontz. No. 936,641; Oct. 12; Sp. p. 2201; Gaz. vol. 147; p. 364.  
 Portable house. C. V. Wyckoff. No. 932,663; Aug. 31; Sp. p. 6430; Gaz. vol. 145; p. 1110.  
 Position-indicator. J. F. Hodges. No. 913,891; Mar. 2; Sp. p. 467; Gaz. vol. 140; p. 76.  
 Post: See Binder-post; Binding-post; Concrete post; Concrete fence-post; Fence-post; Hitching-post; Lathe tool-post; Posting-post; Rubbing-post; Samson-post; Steering-post; Stone or concrete post; Towing-post; Wooden post.  
 Post anchoring-base. P. T. Bailey. No. 919,807; Apr. 27; Sp. p. 6078; Gaz. vol. 141; p. 1045.  
 Post and brace therefor. W. Haight. No. 925,174; June 15; Sp. p. 4421; Gaz. vol. 143; p. 755.  
 Post and fence-wire fastening device, combined. C. E. Seilon. No. 917,166; Apr. 6; Sp. p. 419; Gaz. vol. 141; p. 73.  
 Post and pole protecting-sleeve. C. G. Ette. No. 913,482; Feb. 23; Sp. p. 5055; Gaz. vol. 139; p. 903.  
 Post attachment means, Binder-. R. Krumming. No. 911,050; Feb. 2; Sp. p. 55; Gaz. vol. 139; p. 11.  
 Post-box signal. E. C. Gingrich. No. 918,530; Apr. 20; Sp. p. 3191; Gaz. vol. 141; p. 585.  
 Post-brace. D. Houdygher. No. 913,502; Feb. 23; Sp. p. 5101; Gaz. vol. 139; p. 911.  
 Post-brace. H. J. Fritz. No. 921,534; May 11; Sp. p. 2951; Gaz. vol. 142; p. 534.  
 Post-cap. J. Craig. No. 915,074; Mar. 16; Sp. p. 2904; Gaz. vol. 140; p. 518.  
 Post-card. J. M. Walcutt. No. 930,108; Aug. 3; Sp. p. 1026; Gaz. vol. 145; p. 165.  
 Post-card and fan, Combined picture. K. Münster. No. 922,715; May 25; Sp. p. 5394; Gaz. vol. 142; p. 950.  
 Post-card or display device, Picture. A. S. Spiegel. No. 944,385; Dec. 28; Sp. p. 5041; Gaz. vol. 149; p. 887.  
 Post-card rack. W. O. Kaiser and O. Klein. No. 934,318; Sept. 14; Sp. p. 2724; Gaz. vol. 146; p. 453.  
 Post-card, Souvenir. R. Hasbrouck. No. 938,763; Nov. 2; Sp. p. 672; Gaz. vol. 148; p. 107.  
 Post-card stand. M. E. Bishop. No. 924,031; June 8; Sp. p. 2039; Gaz. vol. 143; p. 358.  
 Post-cards, &c., Dispensing-machine for. W. D. Evans and J. T. Marshall. No. 921,389; May 11; Sp. p. 2672; Gaz. vol. 142; p. 459.  
 Post-foundation. J. L. McClintock. No. 925,940; June 22; Sp. p. 5979; Gaz. vol. 143; p. 1032.  
 Post-hole digger. T. Hardy. No. 931,061; Aug. 17; Sp. p. 3034; Gaz. vol. 145; p. 532.  
 Post-hole digger. J. M. Hefner. No. 944,552; Dec. 28; Sp. p. 5439; Gaz. vol. 149; p. 945.  
 Post-mold. C. S. Wert. No. 910,620; Jan. 26; Sp. p. 4502; Gaz. vol. 138; p. 820.  
 Post mold, Concrete-sign-. L. G. Haase. No. 915,287; Mar. 16; Sp. p. 3370; Gaz. vol. 140; p. 588.  
 Post-molding machine. J. J. Niebauer. No. 918,691; Apr. 20; Sp. p. 3607; Gaz. vol. 141; p. 639.  
 Post-molding machine. C. O. Wiley. No. 929,906; Aug. 3; Sp. p. 611; Gaz. vol. 145; p. 96.  
 Post-mortem table. T. B. Hennessy. No. 943,827; Dec. 21; Sp. p. 3856; Gaz. vol. 149; p. 671.  
 Post-office box. H. O. Hayward. No. 942,203; Dec. 7; Sp. p. 378; Gaz. vol. 149; p. 57.  
 Post or column. L. A. Brown. No. 925,865; June 22; Sp. p. 5826; Gaz. vol. 143; p. 1008.  
 Post or pole. H. S. Albrecht. No. 926,311; June 29; Sp. p. 6749; Gaz. vol. 143; p. 1190.  
 Post or telegraph and telephone pole. H. E. Atchison. No. 943,134; Dec. 14; Sp. p. 2388; Gaz. vol. 149; p. 406.  
 Post-sharpener. J. Conway. No. 935,779; Oct. 5; Sp. p. 356; Gaz. vol. 147; p. 53.  
 Posts and poles, Composite support for. J. F. Hickman. No. 943,747; Dec. 21; Sp. p. 3703; Gaz. vol. 149; p. 644.  
 Posts, Device for attaching wires to. A. C. Wilcox and A. Burkholder. No. 936,751; Oct. 12; Sp. p. 2413; Gaz. vol. 147; p. 402.  
 Postal card. L. Hohn. No. 930,290; Aug. 3; Sp. p. 1354; Gaz. vol. 145; p. 224.  
 Postal-card check. E. P. Selden. No. 914,460; Mar. 9; Sp. p. 1702; Gaz. vol. 140; p. 292.

*Alphabetical list of inventions—Continued.*

- Posting-post. F. H. Crump. No. 923,775; June 1; Sp. p. 1477; Gaz. vol. 143; p. 226.
- Postmarking-machine. D. Robertson. No. 914,513; Mar. 9; Sp. p. 1810; Gaz. vol. 140; p. 309.
- Postmarking-machine. M. J. Dolphin. No. 915,278; Mar. 16; Sp. p. 3351; Gaz. vol. 140; p. 585.
- Pot: See Cement-pot; Chimney-pot; Coffee-pot; Dash-pot; Fire-pot; Flower-pot; Ore-roasting pot; Paste-pot; Paint-pot; Sealing-wax pot; Tea or coffee pot.
- Pot and kettle cover. I. Chapman. No. 939,802; Nov. 9; Sp. p. 2991; Gaz. vol. 148; p. 492.
- Pot for making coffee, &c. A. Perlich. No. 913,303; Feb. 23; Sp. p. 4699; Gaz. vol. 139; p. 843.
- Potassium bitartrate, Purifying. M. F. Martinez. No. 919,049; Apr. 20; Sp. p. 4340; Gaz. vol. 141; p. 758.
- Potato-bug catcher. G. L. Emery. No. 932,454; Aug. 31; Sp. p. 5956; Gaz. vol. 145; p. 1038.
- Potato-bug destroyer. A. Lindahl. No. 931,440; Aug. 17; Sp. p. 3845; Gaz. vol. 145; p. 663.
- Pot cover, Flower-. M. Skorness. No. 915,897; Mar. 23; Sp. p. 4616; Gaz. vol. 140; p. 818.
- Potato-cutter. E. Q. Couch. No. 917,849; Apr. 13; Sp. p. 1776; Gaz. vol. 141; p. 326.
- Potato-cutter. J. A. Wise. No. 941,001; Nov. 23; Sp. p. 5646; Gaz. vol. 148; p. 954.
- Potato cutter and planter. O. L. Hawk. No. 944,430; Dec. 28; Sp. p. 5144; Gaz. vol. 149; p. 903.
- Potato cutter, Seed-. F. A. Newman. No. 911,900; Feb. 9; Sp. p. 1705; Gaz. vol. 139; p. 316.
- Potato cutter, Seed-. L. F. Miller. No. 942,969; Dec. 14; Sp. p. 2015; Gaz. vol. 149; p. 349.
- Potato-digger. W. H. Bearinger. No. 909,521; Jan. 12; Sp. p. 2203; Gaz. vol. 138; p. 391.
- Potato-digger. W. Strait. No. 910,601; Jan. 26; Sp. p. 4466; Gaz. vol. 138; p. 814.
- Potato-digger. J. D. Wilcox. No. 912,344; Feb. 16; Sp. p. 2728; Gaz. vol. 139; p. 498.
- Potato-digger. L. P. Normandin. No. 916,479; Mar. 30; Sp. p. 5735; Gaz. vol. 140; p. 1035.
- Potato-digger. G. B. Tucker. No. 918,713; Apr. 20; Sp. p. 3656; Gaz. vol. 141; p. 648.
- Potato-digger. G. E. Camp. No. 919,281; Apr. 20; Sp. p. 4967; Gaz. vol. 141; p. 832.
- Potato-digger. S. L. Allen. No. 920,104; May 4; Sp. p. 1; Gaz. vol. 142; p. 3.
- Potato-digger. J. Moreau. No. 920,978; May 11; Sp. p. 1802; Gaz. vol. 142; p. 320.
- Potato-digger. J. Reuther. No. 922,816; May 25; Sp. p. 5603; Gaz. vol. 142; p. 982.
- Potato-digger. J. S. Robbins. No. 923,079; May 25; Sp. p. 6154; Gaz. vol. 142; p. 1067.
- Potato-digger. J. Moreau. No. 925,124; June 15; Sp. p. 4327; Gaz. vol. 143; p. 737.
- Potato-digger. A. Grala. No. 925,331; June 15; Sp. p. 4705; Gaz. vol. 143; p. 803.
- Potato-digger. S. Moeller. No. 926,350; June 29; Sp. p. 6834; Gaz. vol. 143; p. 1203.
- Potato-digger. J. R. Cook. No. 926,979; July 6; Sp. p. 564; Gaz. vol. 144; p. 92.
- Potato-digger. H. Cook. No. 927,121; July 6; Sp. p. 884; Gaz. vol. 144; p. 142.
- Potato-digger. D. Y. and D. E. Hallock. No. 933,980; Sept. 14; Sp. p. 2068; Gaz. vol. 146; p. 341.
- Potato-digger. F. Lesser. No. 935,209; Sept. 28; Sp. p. 4495; Gaz. vol. 146; p. 800.
- Potato-digger. J. M. Herring. No. 937,303; Oct. 19; Sp. p. 3543; Gaz. vol. 147; p. 612.
- Potato-digger. A. W. Cookson. No. 937,423; Oct. 19; Sp. p. 3824; Gaz. vol. 147; p. 651.
- Potato-digger. H. P. Stewart. No. 943,325; Dec. 14; Sp. p. 2771; Gaz. vol. 149; p. 468.
- Potato digger and separator. G. A. Freer. No. 925,691; June 22; Sp. p. 5427; Gaz. vol. 143; p. 949.
- Potato-digger attachment. W. Cooper. No. 920,919; May 11; Sp. p. 1690; Gaz. vol. 142; p. 301.
- Potato-diggers, Hanger for the leading wheels of. L. Willis. No. 910,337; Jan. 19; Sp. p. 3894; Gaz. vol. 138; p. 701.
- Potato digging and gathering machine. J. K. Bleashack. No. 940,121; Nov. 16; Sp. p. 3716; Gaz. vol. 148; p. 633.
- Potato-digging machine. C. W. Markel. No. 925,119; June 15; Sp. p. 4318; Gaz. vol. 143; p. 736.
- Potato-gathering machine. J. Dolman. No. 909,375; Jan. 12; Sp. p. 1916; Gaz. vol. 138; p. 342.
- Potato-harvesting machine. H. R. Lees. No. 915,449; Mar. 16; Sp. p. 3700; Gaz. vol. 140; p. 642.
- Potato-hook rake attachment. C. Kropp. No. 938,001; Oct. 26; Sp. p. 5006; Gaz. vol. 147; p. 863.
- Potato-masher. J. E. Gloekler and A. B. Stahl. No. 930,070; Aug. 3; Sp. p. 941; Gaz. vol. 145; p. 152.
- Potato masher and ricer. B. K. Wiggins. No. 917,225; Apr. 6; Sp. p. 541; Gaz. vol. 141; p. 94.
- Potato-picker. O. Sutter. No. 944,111; Dec. 21; Sp. p. 4472; Gaz. vol. 149; p. 768.
- Potato-picking machine. S. Geigel. No. 909,581; Jan. 12; Sp. p. 2319; Gaz. vol. 138; p. 411.
- Potato-planter. Q. W. Fisher. No. 912,457; Feb. 16; Sp. p. 2952; Gaz. vol. 139; p. 536.
- Potato-planter. J. R. Fruit. No. 914,564; Mar. 9; Sp. p. 1915; Gaz. vol. 140; p. 326.
- Potato-ricer. C. D. Chavis. No. 916,420; Mar. 20; Sp. p. 5604; Gaz. vol. 140; p. 1015.
- Potato-seed cutter. J. Snyder. No. 924,393; June 8; Sp. p. 2823; Gaz. vol. 143; p. 459.
- Potato-slicer. J. J. Langas. No. 916,460; Mar. 30; Sp. p. 5695; Gaz. vol. 140; p. 1029.
- Potato-sorter. W. Pertzsch. No. 943,097; Dec. 14; Sp. p. 2314; Gaz. vol. 149; p. 393.
- Potato-vine cutter. G. P. Gregory. No. 941,247; Nov. 23; Sp. p. 6182; Gaz. vol. 148; p. 1037.
- Potatoes or other vegetables, Apparatus for handling and screening. L. A. Jenkins. No. 933,306; Sept. 7; Sp. p. 619; Gaz. vol. 146; p. 96.
- Potential starter attachment. H. W. Cheney. No. 909,367; Jan. 12; Sp. p. 1896; Gaz. vol. 138; p. 339.
- Pottery ornamentation. A. L. Rock. No. 912,171; Feb. 9; Sp. p. 2335; Gaz. vol. 139; p. 403.
- Poultrice case or container. H. J. Dunn. No. 914,935; Mar. 9; Sp. p. 2666; Gaz. vol. 140; p. 447.
- Poultry-fount. W. E. Smith. No. 937,108; Oct. 19; Sp. p. 3121; Gaz. vol. 147; p. 549.
- Poultry-hanger. L. F. Henig. No. 938,765; Nov. 2; Sp. p. 675; Gaz. vol. 148; p. 108.
- Poultry-marker. L. J. Davis. No. 912,820; Feb. 16; Sp. p. 3750; Gaz. vol. 139; p. 660.
- Poultry-picker. T. G. Griggs. No. 920,566; May 4; Sp. p. 960; Gaz. vol. 142; p. 156.
- Poultry-picking frame. F. F. B. Chapman. No. 925,993; June 22; Sp. p. 6073; Gaz. vol. 143; p. 1050.
- Poultry-securing device. J. F. Beatty. No. 933,817; Sept. 14; Sp. p. 1749; Gaz. vol. 146; p. 289.
- Poultry watering device. J. G. Becker. No. 910,039; Jan. 19; Sp. p. 3238; Gaz. vol. 138; p. 597.
- Powder bag and cup, Combination. C. Breitmeyer. No. 927,826; July 13; Sp. p. 2334; Gaz. vol. 144; p. 402.
- Powder, Blasting-. W. Eberle. No. 910,365; Jan. 19; Sp. p. 3949; Gaz. vol. 138; p. 710.
- Powder-box. H. J. Dierking. No. 919,549; Apr. 27; Sp. p. 5575; Gaz. vol. 141; p. 958.
- Powder-box cover. G. Messinger. No. 938,161; Oct. 26; Sp. p. 5370; Gaz. vol. 147; p. 916.
- Powder-box, Spring-top. G. F. Miller. No. 927,575; July 13; Sp. p. 1778; Gaz. vol. 144; p. 318.
- Powder-container and measuring-can. G. W. R. Culbertson. No. 915,560; Mar. 16; Sp. p. 3934; Gaz. vol. 140; p. 679.
- Powder-cutting machine. C. Dobbs. No. 939,895; Nov. 9; Sp. p. 3173; Gaz. vol. 148; p. 524.
- Powder-dispensing receptacle. L. W. De Laurence. No. 933,699; Sept. 7; Sp. p. 1504; Gaz. vol. 146; p. 227.
- Powder distributor, Enameling-. W. Lindsay. No. 939,918; Nov. 9; Sp. p. 3236; Gaz. vol. 148; p. 533.
- Powder-drier. A. F. Gebhardt and W. S. Hutchings. No. 937,591; Oct. 19; Sp. p. 4164; Gaz. vol. 147; p. 709.
- Powder-ejector. W. W. Sands. No. 935,415; Sept. 28; Sp. p. 4901; Gaz. vol. 146; p. 866.
- Powder, Flash-light. G. Krebs. No. 918,558; Apr. 20; Sp. p. 3259; Gaz. vol. 141; p. 594.
- Powder for use in making overlays. A. R. Little. No. 908,586; Jan. 5; Sp. p. 330; Gaz. vol. 138; p. 54.
- Powder grain, Smokeless-. H. Maxim. No. 930,979; Aug. 10; Sp. p. 2812; Gaz. vol. 145; p. 476.
- Powder holder and shaker. M. Marx and J. L. Rude. No. 944,341; Dec. 28; Sp. p. 4942; Gaz. vol. 149; p. 871.
- Powder-puff. P. E. Page. No. 919,065; Apr. 20; Sp. p. 4364; Gaz. vol. 141; p. 762.
- Powder-puff box. P. I. Shenberg. No. 921,899; May 13; Sp. p. 3725; Gaz. vol. 142; p. 636.
- Powder-puff pin. J. Wetzler. No. 932,526; Aug. 31; Sp. p. 6121; Gaz. vol. 145; p. 1062.
- Powder-receptacle. J. T. Stapleton. No. 933,796; Sept. 14; Sp. p. 1695; Gaz. vol. 146; p. 281.
- Powder-receptacles, Attachment for tooth-. J. M. Tobin. No. 932,833; Aug. 31; Sp. p. 6784; Gaz. vol. 145; p. 1164.
- Powder-receptacles, Automatic closer for. D. Webster, Jr. No. 920,227; May 4; Sp. p. 275; Gaz. vol. 142; p. 44.
- Powdered materials, Delivery-receptacle for. T. S. Patterson. No. 909,657; Jan. 12; Sp. p. 2470; Gaz. vol. 138; p. 438.
- Powdered-material feed-regulator. D. M. Pickett. No. 914,973; Mar. 9; Sp. p. 2728; Gaz. vol. 140; p. 459.
- Power: See Churn-power; Electric power; Pumping power; Wave-power.
- Power apparatus. J. F. Sperry and J. H. Eby. No. 911,625; Feb. 9; Sp. p. 1188; Gaz. vol. 139; p. 225.
- Power appliance. M. C. White and O. C. Duryea. No. 911,187; Feb. 2; Sp. p. 319; Gaz. vol. 139; p. 56.
- Power appliance. M. C. White and O. C. Duryea. (Reissue.) No. 12,957; May 18; Sp. p. 4825; Gaz. vol. 142; p. 835.
- Power blower, Water-. J. L. Ware. No. 913,592; Feb. 23; Sp. p. 5316; Gaz. vol. 139; p. 941.
- Power-controller for machines. H. S. Wilcox and W. Bartholomew. No. 940,767; Nov. 23; Sp. p. 5167; Gaz. vol. 148; p. 877.
- Power-controlling apparatus. W. R. McKeen, Jr. No. 937,844; Oct. 26; Sp. p. 4680; Gaz. vol. 147; p. 810.
- Power device. W. H. H. Baker. No. 942,534; Dec. 7; Sp. p. 1061; Gaz. vol. 149; p. 172.
- Power drill, Hand-. L. S. Pfouts. No. 911,755; Feb. 9; Sp. p. 1442; Gaz. vol. 139; p. 269.
- Power-fluid generator. C. J. Lake. No. 916,726; Mar. 30; Sp. p. 6214; Gaz. vol. 140; p. 1113.
- Power generating and distributing system. A. C. Eastwood. No. 930,363; Aug. 10; Sp. p. 1500; Gaz. vol. 145; p. 273.
- Power-generating apparatus. C. J. Lake. No. 942,873; Dec. 7; Sp. p. 1757; Gaz. vol. 149; p. 284.
- Power-generating system. H. Lemp. No. 910,331; Jan. 19; Sp. p. 3883; Gaz. vol. 138; p. 699.



*Alphabetical list of inventions—Continued.*

- Power-generator. C. C. Tuch. No. 938,918; Nov. 2; Sp. p. 1029; Gaz. vol. 148; p. 163;  
 Power-jack. H. R. Hardenburg and F. Sager. No. 927,407; July 6; Sp. p. 1412; Gaz. vol. 144; p. 234.  
 Power, Lifting-. J. M. Robin. No. 915,114; Mar. 16; Sp. p. 3020; Gaz. vol. 140; p. 533.  
 Power-mechanism. J. M. Nachbaur and F. Stattman. No. 936,018; Oct. 5; Sp. p. 881; Gaz. vol. 147; p. 133.  
 Power-operated machines, Safety trip device for. C. F. Pfalzgraf. No. 941,726; Nov. 30; Sp. p. 7213; Gaz. vol. 148; p. 1216.  
 Power plant, Hot-liquid. G. Sautter. No. 924,838; June 15; Sp. p. 3746; Gaz. vol. 143; p. 641.  
 Power-press, Metal-working. F. K. Caswell. No. 937,226; Oct. 19; Sp. p. 3382; Gaz. vol. 147; p. 587.  
 Power-producing apparatus. P. Danckwardt. No. 933,022; Aug. 31; Sp. p. 7135; Gaz. vol. 145; p. 1226.  
 Power-producing process. P. Danckwardt. No. 933,023; Aug. 31; Sp. p. 7137; Gaz. vol. 145; p. 1226.  
 Power-pumping apparatus, Current-. G. A. Larson. No. 917,464; Apr. 6; Sp. p. 1000; Gaz. vol. 141; p. 174.  
 Power-shovel. J. Kiesler. No. 936,727; Oct. 12; Sp. p. 2369; Gaz. vol. 147; p. 394.  
 Powersystem, Water-. S. C. Fancher. No. 914,399; Mar. 9; Sp. p. 1593; Gaz. vol. 140; p. 271.  
 Power-tacker, Portable. M. D. Phelan. No. 938,508; Nov. 2; Sp. p. 133; Gaz. vol. 148; p. 21.  
 Power transmission. F. Porsche. No. 925,504; June 22; Sp. p. 5047; Gaz. vol. 143; p. 889.  
 Power-transmission and direction-changing device. W. S. Lewis. No. 934,821; Sept. 21; Sp. p. 3718; Gaz. vol. 146; p. 645.  
 Power-transmission apparatus. R. J. Fry. No. 918,034; Apr. 13; Sp. p. 2191; Gaz. vol. 141; p. 393.  
 Power-transmission apparatus. D. E. Selders. No. 941,280; Nov. 23; Sp. p. 6263; Gaz. vol. 148; p. 1048.  
 Power-transmission device. E. P. Warner. No. 917,205; Apr. 6; Sp. p. 500; Gaz. vol. 141; p. 87.  
 Power transmission, Electrical-. C. L. Chisholm. No. 936,304; Oct. 12; Sp. p. 1441; Gaz. vol. 147; p. 250.  
 Power-transmission elements, Mechanism for controlling. J. D. Allen and J. A. Conly. No. 914,374; Mar. 9; Sp. p. 1542; Gaz. vol. 140; p. 263.  
 Power-transmission gear. J. H. Williams. No. 910,623; Jan. 26; Sp. p. 4506; Gaz. vol. 138; p. 821.  
 Power-transmission mechanism. R. D. Mayo. No. 914,740; Mar. 9; Sp. p. 2297; Gaz. vol. 140; p. 384.  
 Power-transmission mechanism. F. E. Seddon and W. H. Douglas. No. 917,968; Apr. 13; Sp. p. 2032; Gaz. vol. 141; p. 369.  
 Power-transmission mechanism. J. E. Fries. No. 920,946; May 11; Sp. p. 1747; Gaz. vol. 142; p. 310.  
 Power-transmission mechanism. J. L. Locke and W. J. Outhouse. No. 925,490; June 22; Sp. p. 5009; Gaz. vol. 143; p. 884.  
 Power-transmission mechanism. T. C. Dill. No. 929,405; July 27; Sp. p. 5620; Gaz. vol. 144; p. 986.  
 Power-transmission mechanism. W. G. Clifton. No. 929,556; July 27; Sp. p. 5884; Gaz. vol. 144; p. 1034.  
 Power-transmission mechanism. A. Bink. No. 931,987; Aug. 24; Sp. p. 5024; Gaz. vol. 145; p. 801.  
 Power-transmission mechanism. C. Jensen. No. 934,535; Sept. 21; Sp. p. 3145; Gaz. vol. 146; p. 548.  
 Power-transmission mechanism. B. F. Mayo. No. 936,338; Oct. 12; Sp. p. 1521; Gaz. vol. 147; p. 262.  
 Power-transmission mechanism. A. Kovacs. No. 936,458; Oct. 12; Sp. p. 1814; Gaz. vol. 147; p. 302.  
 Power-transmission mechanism. C. Kilroy. No. 940,880; Nov. 23; Sp. p. 5394; Gaz. vol. 148; p. 914.  
 Power-transmission mechanism. E. E. Keller. No. 942,913; Dec. 14; Sp. p. 1883; Gaz. vol. 149; p. 330.  
 Power-transmitter. D. Williamson. No. 912,345; Feb. 16; Sp. p. 2730; Gaz. vol. 139; p. 498.  
 Power-transmitter. M. K. Golden. No. 931,010; Aug. 10; Sp. p. 2895; Gaz. vol. 145; p. 487.  
 Power-transmitter. F. de Coligny. No. 933,232; Sept. 7; Sp. p. 458; Gaz. vol. 146; p. 71.  
 Power transmitter and controller. T. S. Miller. No. 915,458; Mar. 16; Sp. p. 3710; Gaz. vol. 140; p. 645.  
 Power-transmitting apparatus. A. H. Edwards. No. 929,575; July 27; Sp. p. 5914; Gaz. vol. 144; p. 1039.  
 Power-transmitting apparatus. R. A. La Pointe. No. 941,154; Nov. 23; Sp. p. 5983; Gaz. vol. 148; p. 1006.  
 Power-transmitting device. A. C. Albertson. No. 909,127; Jan. 5; Sp. p. 1435; Gaz. vol. 138; p. 229.  
 Power-transmitting device. F. R. McBerty. No. 922,802; May 25; Sp. p. 5565; Gaz. vol. 142; p. 978.  
 Power-transmitting device. L. J. Harris. No. 932,467; Aug. 31; Sp. p. 6002; Gaz. vol. 145; p. 1043.  
 Power-transmitting device. S. Fletcher. No. 933,068; Sept. 7; Sp. p. 63; Gaz. vol. 146; p. 11.  
 Power-transmitting mechanism. F. Bucherer. No. 910,901; Jan. 26; Sp. p. 5044; Gaz. vol. 138; p. 908.  
 Power-transmitting mechanism. J. N. St. Mary. No. 916,624; Mar. 30; Sp. p. 6040; Gaz. vol. 140; p. 1083.  
 Power-transmitting mechanism. C. H. Draper. No. 940,861; Nov. 23; Sp. p. 5354; Gaz. vol. 148; p. 908.  
 Power-transmitting mechanism. J. L. Jones. No. 944,240; Dec. 21; Sp. p. 4719; Gaz. vol. 149; p. 808.  
 Power-transmitting mechanism, Coupling for oil-well. L. E. Shiray and E. J. W. De Forest. No. 928,805; July 20; Sp. p. 4349; Gaz. vol. 144; p. 758.  
 Precious metals from ores, Extracting. I. Kitsee. No. 936,545; Oct. 12; Sp. p. 2004; Gaz. vol. 147; p. 330.  
 Precious metals from their ores, Extracting. W. L. Imlay. No. 919,434; Apr. 27; Sp. p. 5313; Gaz. vol. 141; p. 918.  
 Precious metals, Recovering. J. H. Reid. No. 937,387; Oct. 19; Sp. p. 3730; Gaz. vol. 147; p. 639.  
 Prepayment-machine. W. M. Bradshaw. No. 929,911; Aug. 3; Sp. p. 623; Gaz. vol. 145; p. 98.  
 Prepayment-meter. W. T. Drew. No. 914,706; Mar. 9; Sp. p. 2218; Gaz. vol. 140; p. 373.  
 Preservative, Structural. G. D. Coleman. No. 937,227; Oct. 19; Sp. p. 3385; Gaz. vol. 147; p. 588.  
 Preserving-can, Vacuum. S. G. Wilfman. No. 913,337; Feb. 23; Sp. p. 4775; Gaz. vol. 139; p. 855.  
 Preserving edible substances. A. J. Baldwin. No. 940,848; Nov. 23; Sp. p. 5333; Gaz. vol. 148; p. 904.  
 Preserving-receptacle. L. Peck. No. 916,190; Mar. 23; Sp. p. 5159; Gaz. vol. 140; p. 913.  
 Press: See Automatic multiplex press; Baling-press; Barrel-press; Block-press; Block-molding press; Box-press; Box-cover press; Brick-press; Briquet-press; Cake-press; Cider-press; Cigar-press; Clothes-press; Coining-press; Continuous press; Copying-press; Cotton-press; Dental press; Die-press; Drawing-press; Drill-press; Embossing and printing press; Expressing-press; Filter-press; Forging-press; Fruit-press; Hat-brim press; Hay-press; Hydraulic press; Hydro-mechanical press; Insulator screw-press; Ironing-press; Matrix-drying press; Metal-drawing press; Molding-press; Pipe-making press; Platen-press; Printing-press; Pulp-press; Screw-press; Seal-press; Sheet-metal-working press; Stone-press; Tobacco-press; Transfer-press; Tutting-machine press; Veneering-press.  
 Press. J. A. Keyes. No. 910,544; Jan. 26; Sp. p. 4323; Gaz. vol. 138; p. 794.  
 Press. C. Bennion. No. 918,728; Apr. 20; Sp. p. 3686; Gaz. vol. 141; p. 654.  
 Press. A. M. Mayle and A. C. Hoppe. No. 920,360; May 4; Sp. p. 549; Gaz. vol. 142; p. 87.  
 Press. H. W. Shepard. No. 921,011; May 11; Sp. p. 1863; Gaz. vol. 142; p. 830.  
 Press. A. G. Fell. No. 922,759; May 25; Sp. p. 5485; Gaz. vol. 142; p. 964.  
 Press. W. Klocke. No. 928,609; July 20; Sp. p. 3972; Gaz. vol. 144; p. 693.  
 Press. F. E. Self. No. 929,717; Aug. 3; Sp. p. 162; Gaz. vol. 145; p. 29.  
 Press. W. Klocke. No. 930,602; Aug. 10; Sp. p. 2016; Gaz. vol. 145; p. 353.  
 Press. S. L. Carter. No. 938,462; Nov. 2; Sp. p. 20; Gaz. vol. 148; p. 5.  
 Press. L. H. Conner. No. 939,475; Nov. 9; Sp. p. 2291; Gaz. vol. 148; p. 379.  
 Press. H. G. Miller. No. 939,732; Nov. 9; Sp. p. 2837; Gaz. vol. 148; p. 468.  
 Press. J. C. Fiddymont. No. 940,961; Nov. 23; Sp. p. 5558; Gaz. vol. 148; p. 941.  
 Press. C. L. Betz and W. E. Wallace. No. 943,858; Dec. 21; Sp. p. 3921; Gaz. vol. 149; p. 682.  
 Press. S. J. Webb. No. 944,392; Dec. 28; Sp. p. 5056; Gaz. vol. 149; p. 890.  
 Press and attachment therefor. Drop-. L. G. Bayrer. No. 915,012; Mar. 9; Sp. p. 2782; Gaz. vol. 140; p. 471.  
 Press and vulcanizer, Combined. J. K. Williams. No. 933,868; Sept. 14; Sp. p. 1848; Gaz. vol. 146; p. 305.  
 Press attachment, Drop-. A. O. Slentz. No. 923,904; June 8; Sp. p. 1798; Gaz. vol. 143; p. 299.  
 Press-bed. A. B. Liddell. No. 926,341; June 29; Sp. p. 6819; Gaz. vol. 143; p. 1200.  
 Press-box. R. Carlin. No. 922,257; May 18; Sp. p. 4460; Gaz. vol. 142; p. 774.  
 Press-button. R. Scheewe. No. 939,446; Nov. 9; Sp. p. 2222; Gaz. vol. 148; p. 370.  
 Press-button, Adjustable. A. O. H. Hellwig. No. 930,961; Aug. 10; Sp. p. 2768; Gaz. vol. 145; p. 470.  
 Press-feeder's finger-stall. A. V. Napier. No. 911,838; Feb. 9; Sp. p. 1588; Gaz. vol. 139; p. 295.  
 Press-feeding mechanism, Automatic. L. C. Krummel. No. 938,876; Nov. 2; Sp. p. 925; Gaz. vol. 148; p. 146.  
 Press for agglomerating combustible briquets. O. Crochet. No. 932,682; Aug. 31; Sp. p. 6474; Gaz. vol. 145; p. 1116.  
 Press for expressing fluids from solids. F. G. Wiseloge. No. 942,301; Dec. 7; Sp. p. 578; Gaz. vol. 149; p. 92.  
 Press for forming hollow articles. R. L. Williams. No. 927,622; July 13; Sp. p. 1898; Gaz. vol. 144; p. 336.  
 Press for making sewer-pipes, &c. C. W. Vaughn. No. 915,640; Mar. 16; Sp. p. 4098; Gaz. vol. 140; p. 708.  
 Press for the manufacture of tubes, rods, and the like from blanks. A. Schwiager. No. 924,005; June 8; Sp. p. 1992; Gaz. vol. 143; p. 331.  
 Press indicator, Baling-. J. R. Alexander. No. 911,106; Feb. 2; Sp. p. 159; Gaz. vol. 139; p. 30.  
 Press-roll mechanism. J. L. Graham. No. 920,948; May 11; Sp. p. 1750; Gaz. vol. 142; p. 311.  
 Presser valve-operating mechanism. J. M. Sheppard. No. 908,616; Jan. 5; Sp. p. 390; Gaz. vol. 138; p. 63.  
 Presser-foot. G. C. Crompton. No. 937,204; Oct. 19; Sp. p. 3333; Gaz. vol. 147; p. 580.  
 Presses or other operating devices, Machine for feeding blanks or sheets to. C. E. Sargent and R. B. Peebles. No. 927,171; July 6; Sp. p. 978; Gaz. vol. 144; p. 159.  
 Presses, Web-controller for. F. W. Rolland, Jr. No. 925,949; June 22; Sp. p. 5992; Gaz. vol. 143; p. 1035.  
 Pressing and sealing mechanism. E. E. Flora. No. 927,033; July 6; Sp. p. 694; Gaz. vol. 144; p. 111.  
 Pressing-machine. H. Lindstrom. No. 925,205; June 15; Sp. p. 4484; Gaz. vol. 143; p. 765.



*Alphabetical list of inventions—Continued.*

- Pressing machine, Garment-. H. P. Shupe. No. 940,078; Nov. 16; Sp. p. 3621; Gaz. vol. 143; p. 618.
- Pressure-burner. F. Jottrand. No. 915,714; Mar. 16; Sp. p. 4250; Gaz. vol. 140; p. 733.
- Pressure-button. V. Marendowski. No. 924,254; June 8; Sp. p. 2538; Gaz. vol. 143; p. 413.
- Pressure control, Automatic. J. H. Smith. No. 939,752; Nov. 9; Sp. p. 2880; Gaz. vol. 148; p. 475.
- Pressure-controlled regulator. J. T. Weitbrech. No. 910,033; Jan. 19; Sp. p. 3225; Gaz. vol. 138; p. 595.
- Pressure-controlling device, Hydraulic. J. W. Nelson. No. 914,165; Mar. 2; Sp. p. 1082; Gaz. vol. 140; p. 171.
- Pressure-controlling means, Hydraulic. J. W. Nelson. No. 914,166; Mar. 2; Sp. p. 1085; Gaz. vol. 140; p. 172.
- Pressure-cut-off. G. Robson. No. 914,752; Mar. 9; Sp. p. 2320; Gaz. vol. 140; p. 389.
- Pressure elevator, Balanced-. G. F. Steedman. No. 932,726; Aug. 31; Sp. p. 6561; Gaz. vol. 145; p. 1130.
- Pressure-exerting machines, Relief mechanism for. W. A. Cornbrooks. No. 914,799; Mar. 9; Sp. p. 2405; Gaz. vol. 140; p. 404.
- Pressure-gage. F. Schubert. No. 920,668; May 4; Sp. p. 1179; Gaz. vol. 142; p. 189.
- Pressure-gage, Gas-. W. Thomas. No. 913,321; Feb. 23; Sp. p. 4750; Gaz. vol. 139; p. 850.
- Pressure generating and applying apparatus, Hydraulic. J. W. Nelson. No. 942,736; Dec. 7; Sp. p. 1456; Gaz. vol. 140; p. 238.
- Pressure generating and applying device, Hydraulic. J. W. Nelson. No. 939,535; Nov. 9; Sp. p. 2401; Gaz. vol. 148; p. 398.
- Pressure generating and applying device, Variable-hydraulic. J. W. Nelson. No. 914,169; Mar. 2; Sp. p. 1100; Gaz. vol. 140; p. 173.
- Pressure generating and controlling device, Hydraulic. J. W. Nelson. No. 914,163; Mar. 2; Sp. p. 1075; Gaz. vol. 140; p. 171.
- Pressure generating, controlling, and applying apparatus, Hydraulic. J. W. Nelson. No. 914,170; Mar. 2; Sp. p. 1107; Gaz. vol. 140; p. 173.
- Pressure generating, controlling, and applying device, Hydraulic. J. W. Nelson. No. 939,737; Nov. 9; Sp. p. 2845; Gaz. vol. 148; p. 469.
- Pressure-generator-controlling device, Hydraulic. J. W. Nelson. No. 914,168; Mar. 2; Sp. p. 1095; Gaz. vol. 140; p. 173.
- Pressure-generator, mixer, and engine, Combination. J. Illy. No. 933,907; Sept. 14; Sp. p. 1929; Gaz. vol. 146; p. 318.
- Pressure-governing apparatus. W. V. Turner. No. 929,055; July 27; Sp. p. 4863; Gaz. vol. 144; p. 870.
- Pressure-indicator. W. W. Brissenden. No. 916,261; Mar. 23; Sp. p. 5290; Gaz. vol. 140; p. 936.
- Pressure reducer. Back-. J. B. Ricketts. No. 919,080; Apr. 20; Sp. p. 4391; Gaz. vol. 141; p. 767.
- Pressure-regulating apparatus. T. G. Mouat. No. 937,686; Oct. 19; Sp. p. 4333; Gaz. vol. 147; p. 738.
- Pressure-regulating device. O. Onsrud. No. 931,334; Aug. 17; Sp. p. 3629; Gaz. vol. 145; p. 626.
- Pressure-regulator. A. Kleinfeldt. No. 911,505; Feb. 2; Sp. p. 913; Gaz. vol. 139; p. 160.
- Pressure-regulator. T. Montgomery. No. 915,204; Mar. 16; Sp. p. 3224; Gaz. vol. 140; p. 563.
- Pressure-regulator. A. C. Durdin, Jr. No. 916,957; Mar. 30; Sp. p. 6655; Gaz. vol. 140; p. 1188.
- Pressure-regulator. H. Hillebrand and M. Jack. No. 919,013; Apr. 20; Sp. p. 4269; Gaz. vol. 141; p. 747.
- Pressure-regulator. B. Zindel. No. 919,513; Apr. 27; Sp. p. 5504; Gaz. vol. 141; p. 946.
- Pressure-regulator. H. F. Smith. No. 938,346; Oct. 26; Sp. p. 5761; Gaz. vol. 147; p. 980.
- Pressure-regulator. W. F. Krichbaum. No. 941,153; Nov. 23; Sp. p. 5980; Gaz. vol. 148; p. 1005.
- Pressure-regulator. C. W. Collin. No. 942,546; Dec. 7; Sp. p. 1088; Gaz. vol. 149; p. 176.
- Pressure-regulator. C. H. Bong. No. 944,255; Dec. 28; Sp. p. 4753; Gaz. vol. 149; p. 841.
- Pressure-regulator, Automatic. P. Lulli. No. 911,249; Feb. 2; Sp. p. 455; Gaz. vol. 139; p. 78.
- Pressure-relieving device. W. Cooper. No. 920,729; May 4; Sp. p. 1301; Gaz. vol. 142; p. 209.
- Pressure for tanks and other appliances, Apparatus for controlling the application and relief of. A. Priestman. No. 914,673; Mar. 9; Sp. p. 2152; Gaz. vol. 140; p. 361.
- Primary battery. W. M. Brodie. No. 933,525; Sept. 7; Sp. p. 1167; Gaz. vol. 146; p. 168.
- Primary battery. C. E. Hite. No. 941,366; Nov. 30; Sp. p. 6441; Gaz. vol. 148; p. 1097.
- Prime movers, Suspension means for. R. Siegfried. No. 931,152; Aug. 17; Sp. p. 3230; Gaz. vol. 145; p. 503.
- Primers, Charging of. F. Hyronimus. No. 908,674; Jan. 5; Sp. p. 526; Gaz. vol. 138; p. 81.
- Primings-up and spark-plug, Combination. A. Peltier. No. 937,690; Oct. 19; Sp. p. 4344; Gaz. vol. 147; p. 740.
- Print developing and washing apparatus. H. C. Gawler. No. 935,148; Sept. 28; Sp. p. 4378; Gaz. vol. 146; p. 781.
- Print-washing machine. F. W. Emerson. No. 930,654; Aug. 10; Sp. p. 2123; Gaz. vol. 145; p. 376.
- Printed manifolding-form. T. V. Maxedon. No. 935,801; Oct. 5; Sp. p. 412; Gaz. vol. 147; p. 61.
- Printer and recorder, Check. W. H. Baur. No. 935,453; Sept. 28; Sp. p. 4974; Gaz. vol. 146; p. 879.
- Printer's border. A. C. Gustafson. No. 925,336; June 15; Sp. p. 4711; Gaz. vol. 143; p. 805.
- Printer's chase. C. T. De Brisy. No. 913,946; Mar. 2; Sp. p. 603; Gaz. vol. 140; p. 96.
- Printer's chase registering device. W. A. Howe. No. 908,571; Jan. 5; Sp. p. 289; Gaz. vol. 138; p. 49.
- Printer's composing-stick. S. H. Bean. No. 944,535; Dec. 28; Sp. p. 5401; Gaz. vol. 149; p. 940.
- Printer's extension furniture. A. L. Beaupain. No. 917,237; Apr. 6; Sp. p. 561; Gaz. vol. 141; p. 98.
- Printer's galley. H. M. S. Carsten. No. 920,430; May 4; Sp. p. 695; Gaz. vol. 142; p. 109.
- Printer's galley. A. S. Orchard. No. 939,620; Nov. 9; Sp. p. 2598; Gaz. vol. 148; p. 428.
- Printer's galley. J. L. Lee. No. 940,975; Nov. 23; Sp. p. 5586; Gaz. vol. 148; p. 945.
- Printers' galleys, End-lock or stop-bar. W. W. Greenwood. No. 935,653; Oct. 5; Sp. p. 55; Gaz. vol. 147; p. 11.
- Printer's hook. F. C. Leethem. No. 920,354; May 4; Sp. p. 538; Gaz. vol. 142; p. 85.
- Printers' materials, Holder and separator for storing and separating. J. I. McDonald. No. 919,916; Apr. 27; Sp. p. 3336; Gaz. vol. 141; p. 1082.
- Printer's perforating-rule attachment. S. Palmer. No. 929,702; Aug. 3; Sp. p. 131; Gaz. vol. 145; p. 23.
- Printer's quoin. O. E. Vessels. No. 911,094; Feb. 2; Sp. p. 140; Gaz. vol. 139; p. 26.
- Printer's quoin. S. Stephens. No. 911,173; Feb. 2; Sp. p. 295; Gaz. vol. 139; p. 52.
- Printer's quoin. N. Grasso. No. 920,322; May 4; Sp. p. 478; Gaz. vol. 142; p. 75.
- Printer's quoin. T. J. Amundson. No. 940,113; Nov. 16; Sp. p. 3701; Gaz. vol. 148; p. 630.
- Printing and delivering apparatus. Coupon. J. W. Jones. No. 938,243; Oct. 26; Sp. p. 5536; Gaz. vol. 147; p. 946.
- Printing and developing photographs on silver-chlorid paper. H. J. Mallabar. No. 918,347; Apr. 13; Sp. p. 2813; Gaz. vol. 141; p. 497.
- Printing and folding machines and the like, Automatic sheet-feeder for. H. Hollings. No. 942,066; Nov. 30; Sp. p. 7842; Gaz. vol. 148; p. 1321.
- Printing and issuing tickets and registering fares, Machine for. R. North. No. 939,297; Nov. 9; Sp. p. 1867; Gaz. vol. 148; p. 319.
- Printing and issuing tickets and registering fares, Machine for. R. North. No. 939,295; Nov. 9; Sp. p. 1851; Gaz. vol. 148; p. 318.
- Printing and similar machines, Sheet-separating device for. O. Schneider. No. 931,227; Aug. 17; Sp. p. 3394; Gaz. vol. 145; p. 589.
- Printing and vending machine, Ticket. F. W. Smith. No. 923,085; May 25; Sp. p. 6162; Gaz. vol. 142; p. 1069.
- Printing apparatus. G. W. Merrill. No. 917,784; Apr. 13; Sp. p. 1651; Gaz. vol. 141; p. 307.
- Printing apparatus. B. F. Berry. No. 932,100; Aug. 24; Sp. p. 5269; Gaz. vol. 145; p. 898.
- Printing apparatus, Frame structure for blue-. R. Herman. No. 942,175; Dec. 7; Sp. p. 323; Gaz. vol. 149; p. 49.
- Printing attachment for paper-roll holders. W. T. Geary. No. 937,064; Oct. 19; Sp. p. 3040; Gaz. vol. 147; p. 534.
- Printing attachment for wrapping-paper reels, Automatic. F. Grazioli. No. 916,300; Mar. 23; Sp. p. 5354; Gaz. vol. 140; p. 949.
- Printing bags. A. M. Bates. No. 918,497; Apr. 20; Sp. p. 3135; Gaz. vol. 141; p. 575.
- Printing-block-molding machine. P. Bunau-Varilla. No. 912,228; Feb. 9; Sp. p. 2431; Gaz. vol. 139; p. 420.
- Printing-blocks, Apparatus for making autotype. E. Albert. No. 926,376; June 29; Sp. p. 6878; Gaz. vol. 143; p. 1210.
- Printing-blocks, Making autotype. E. Albert. No. 926,377; June 29; Sp. p. 6880; Gaz. vol. 143; p. 1210.
- Printing, Book-press for color-. N. P. Tornblad. No. 922,542; May 25; Sp. p. 5038; Gaz. vol. 142; p. 894.
- Printing by the method known as photo-engraving, Producing relief-plates for press-. J. W. Willis. No. 918,806; Apr. 20; Sp. p. 3833; Gaz. vol. 141; p. 678.
- Printing, Color-. J. Rheinberg. No. 930,689; Aug. 10; Sp. p. 2184; Gaz. vol. 145; p. 382.
- Printing device. W. L. McCarty. No. 918,464; Apr. 13; Sp. p. 3043; Gaz. vol. 141; p. 535.
- Printing device, Manifold-. E. Z. Lewis. No. 932,148; Aug. 24; Sp. p. 5365; Gaz. vol. 145; p. 914.
- Printing directly on the surfaces of bottles, Machine for. B. W. Allen. No. 927,762; July 13; Sp. p. 2206; Gaz. vol. 144; p. 381.
- Printing for the blind in raised letters. B. B. Huntton and O. McCann. No. 920,872; May 4; Sp. p. 1601; Gaz. vol. 142; p. 255.
- Printing-form and making the same, Lithographic. G. G. Murray. No. 927,577; July 13; Sp. p. 1787; Gaz. vol. 144; p. 319.
- Printing-form and type. W. G. Reynolds. No. 927,873; July 13; Sp. p. 2439; Gaz. vol. 144; p. 417.
- Printing-frame. N. H. Baird. No. 912,524; Feb. 16; Sp. p. 3107; Gaz. vol. 139; p. 558.
- Printing-frame. C. E. Weltmer. No. 917,696; Apr. 6; Sp. p. 1422; Gaz. vol. 141; p. 250.
- Printing-frame. C. Dow. No. 924,327; June 8; Sp. p. 2692; Gaz. vol. 143; p. 438.
- Printing-frame. B. D. Miller. No. 925,934; June 22; Sp. p. 5969; Gaz. vol. 143; p. 1031.
- Printing-frame. L. D. Gagné. No. 935,486; Sept. 28; Sp. p. 5029; Gaz. vol. 146; p. 889.
- Printing-frame, Automatic. G. S. Edwards. No. 926,553; June 29; Sp. p. 7188; Gaz. vol. 143; p. 1271.
- Printing frame, Photographic-. J. C. Morgan. No. 909,639; Jan. 12; Sp. p. 2431; Gaz. vol. 138; p. 431.
- Printing from blocks and forms, Making ready for. D. Hennequin and E. Plagnes. No. 911,497; Feb. 2; Sp. p. 889; Gaz. vol. 139; p. 157.
- Printing-gage. W. Duke, Sr., and W. Duke, Jr. No. 912,945; Feb. 16; Sp. p. 3962; Gaz. vol. 139; p. 697.
- Printing in impressions or for other purposes, Method and device for preparing metal leaves for raised-. R. Gubin. No. 929,421; July 27; Sp. p. 5645; Gaz. vol. 144; p. 991.
- Printing in colors. J. R. Brown. No. 941,670; Nov. 30; Sp. p. 7084; Gaz. vol. 148; p. 1197.



*Alphabetical list of inventions—Continued.*

- Printing-machine. A. B. Dick. No. 917,022; Apr. 6; Sp. p. 123; Gaz. vol. 141; p. 24.  
 Printing-machine. W. L. Green. No. 917,861; Apr. 13; Sp. p. 1799; Gaz. vol. 141; p. 331.  
 Printing-machine. A. B. Dick. No. 922,861; May 25; Sp. p. 5696; Gaz. vol. 142; p. 998.  
 Printing-machine. R. G. Prendes. No. 923,703; June 1; Sp. p. 1308; Gaz. vol. 143; p. 202.  
 Printing-machine. J. A. Boyce. No. 924,310; June 8; Sp. p. 2658; Gaz. vol. 143; p. 432.  
 Printing-machine. J. Collison. No. 925,458; June 22; Sp. p. 4961; Gaz. vol. 143; p. 875.  
 Printing-machine. F. E. Blaisdell. No. 927,099; July 6; Sp. p. 343; Gaz. vol. 144; p. 135.  
 Printing-machine. J. S. Duncan. No. 927,510; July 13; Sp. p. 1654; Gaz. vol. 144; p. 297.  
 Printing-machine. H. J. Smith and A. S. Woodward. No. 928,887; July 20; Sp. p. 4520; Gaz. vol. 144; p. 787.  
 Printing-machine. A. D. Cooke. No. 932,250; Aug. 24; Sp. p. 5567; Gaz. vol. 145; p. 948.  
 Printing-machine. J. L. Firm. No. 938,046; Oct. 26; Sp. p. 5099; Gaz. vol. 147; p. 877.  
 Printing-machine. W. L. Sloane and J. S. Owsley. No. 941,106; Nov. 23; Sp. p. 5867; Gaz. vol. 148; p. 989.  
 Printing-machine. L. W. Southgate. No. 942,980; Dec. 14; Sp. p. 2033; Gaz. vol. 149; p. 353.  
 Printing-machine, Bag-. A. M. Bates. No. 918,496; Apr. 20; Sp. p. 3131; Gaz. vol. 141; p. 575.  
 Printing-machine, Blue-. C. De Lukacsevics. No. 910,832; Jan. 26; Sp. p. 4913; Gaz. vol. 138; p. 887.  
 Printing-machine, Combined perfecting or two-color. H. A. W. Wood. No. 941,598; Nov. 30; Sp. p. 6930; Gaz. vol. 148; p. 1173.  
 Printing-machine feed mechanism. H. W. Morgan. No. 926,205; June 29; Sp. p. 6544; Gaz. vol. 143; p. 1157.  
 Printing-machine feeding and separating apparatus. M. H. Mann. No. 910,557; Jan. 26; Sp. p. 4362; Gaz. vol. 138; p. 800.  
 Printing-machine for fabrics, Multicolor-. K. W. Erler. No. 917,030; Apr. 6; Sp. p. 143; Gaz. vol. 141; p. 27.  
 Printing-machine linking mechanism. E. M. Lockwood. No. 921,615; May 11; Sp. p. 3123; Gaz. vol. 142; p. 534.  
 Printing-machine, Rotary. H. J. Salmon and J. Capper. No. 919,471; Apr. 27; Sp. p. 5414; Gaz. vol. 141; p. 932.  
 Printing-machine sheet-delivery apparatus. G. P. Fenner. No. 913,631; Feb. 23; Sp. p. 5419; Gaz. vol. 139; p. 955.  
 Printing-machine, Stencil-. C. L. Burdick. No. 932,600; Aug. 31; Sp. p. 6286; Gaz. vol. 145; p. 1087.  
 Printing-machine, Yarn-. N. Costikyan. No. 928,631; July 20; Sp. p. 4016; Gaz. vol. 144; p. 700.  
 Printing-machines, Scrim-pail for calico-. H. Hadwin. No. 935,654; Oct. 5; Sp. p. 58; Gaz. vol. 147; p. 12.  
 Printing-machines, Sheet-delivery mechanism for. T. M. North. No. 935,538; Sept. 28; Sp. p. 5173; Gaz. vol. 146; p. 907.  
 Printing-machines, Sheet-inverting apparatus especially applicable for use in connection with. T. M. North. No. 936,151; Oct. 5; Sp. p. 1158; Gaz. vol. 147; p. 176.  
 Printing-machines, Sheet-inverting apparatus for use in connection with. T. R. G. Parker. No. 939,541; Nov. 9; Sp. p. 2415; Gaz. vol. 148; p. 401.  
 Printing-machines, Side-lay apparatus for. T. R. G. Parker. No. 936,027; Oct. 5; Sp. p. 902; Gaz. vol. 147; p. 136.  
 Printing machinery. J. A. J. Hayes. No. 909,591; Jan. 12; Sp. p. 2336; Gaz. vol. 138; p. 414.  
 Printing machinery. J. A. J. Hayes. (Reissue). No. 13,051; Dec. 7; Sp. p. 1780; Gaz. vol. 149; p. 287.  
 Printing mechanism. R. A. Pollock. No. 923,074; May 25; Sp. p. 6145; Gaz. vol. 142; p. 1066.  
 Printing mechanism. F. G. Jahn. No. 929,951; Aug. 3; Sp. p. 697; Gaz. vol. 145; p. 111.  
 Printing mechanism. E. W. Dean. No. 938,043; Oct. 26; Sp. p. 5094; Gaz. vol. 147; p. 877.  
 Printing medium. P. Charles and S. Faujat. No. 929,913; Aug. 3; Sp. p. 626; Gaz. vol. 145; p. 99.  
 Printing on felt and the like. R. J. C. Mitchell. No. 935,675; Oct. 5; Sp. p. 109; Gaz. vol. 147; p. 19.  
 Printing on shoe-linings and the like, Machine for. A. J. Bradley. No. 920,531; May 4; Sp. p. 886; Gaz. vol. 142; p. 143.  
 Printing on shoe-linings and the like, Machine for. A. J. Bradley. No. 920,532; May 4; Sp. p. 891; Gaz. vol. 142; p. 144.  
 Printing or embossing plates, Making. J. Hartnett, Jr. No. 921,397; May 11; Sp. p. 2690; Gaz. vol. 142; p. 462.  
 Printing-plate. M. A. Droitcour. No. 912,093; Feb. 9; Sp. p. 2196; Gaz. vol. 139; p. 379.  
 Printing-plate. C. Owens. No. 939,739; Nov. 9; Sp. p. 2855; Gaz. vol. 148; p. 470.  
 Printing-plate-casting machine. A. H. Cruse. No. 932,602; Aug. 31; Sp. p. 6293; Gaz. vol. 145; p. 1088.  
 Printing-plate clamp, Flexible-. J. White. No. 935,439; Sept. 28; Sp. p. 4950; Gaz. vol. 146; p. 874.  
 Printing-plate foundation. W. S. Warnock. No. 935,073; Sept. 28; Sp. p. 4227; Gaz. vol. 146; p. 756.  
 Printing-plate holder. W. Neasham. No. 913,035; Feb. 23; Sp. p. 4146; Gaz. vol. 139; p. 753.  
 Printing-plate holder. W. J. Knoll. No. 913,736; Mar. 2; Sp. p. 117; Gaz. vol. 140; p. 21.  
 Printing-plate holder or bed spacer. C. F. Rockstroh. No. 910,317; Jan. 19; Sp. p. 3555; Gaz. vol. 138; p. 694.  
 Printing-plate-making machine. J. S. Duncan. No. 921,600; May 11; Sp. p. 3080; Gaz. vol. 142; p. 528.  
 Printing-plates by means of electrolytic etching, Preparing. H. Strecker-Auermann. No. 909,831; Jan. 12; Sp. p. 2804; Gaz. vol. 138; p. 494.  
 Printing-plates, Casting of curved stereotype. D. W. Jones. No. 911,882; Feb. 9; Sp. p. 1667; Gaz. vol. 139; p. 309.  
 Printing-plates, Making. M. A. Droitcour. No. 912,092; Feb. 9; Sp. p. 2193; Gaz. vol. 139; p. 379.  
 Printing-plates, Producing. B. Gisevius. No. 913,280; Feb. 23; Sp. p. 4653; Gaz. vol. 139; p. 835.  
 Printing-plates, Producing. J. Jacobson. No. 926,121; June 29; Sp. p. 6349; Gaz. vol. 143; p. 1127.  
 Printing-plates to type-beds, Fastener for securing. B. F. Upham. No. 921,753; May 18; Sp. p. 3413; Gaz. vol. 142; p. 608.  
 Printing-press. R. Miehle. No. 909,199; Jan. 12; Sp. p. 1583; Gaz. vol. 138; p. 285.  
 Printing-press. B. F. Upham. No. 909,260; Jan. 12; Sp. p. 1689; Gaz. vol. 138; p. 304.  
 Printing-press. F. W. Korshall. No. 909,776; Jan. 12; Sp. p. 2697; Gaz. vol. 138; p. 477.  
 Printing-press. A. E. Dowell. No. 910,363; Jan. 19; Sp. p. 3944; Gaz. vol. 138; p. 710.  
 Printing-press. D. W. Custer. No. 910,461; Jan. 19; Sp. p. 4146; Gaz. vol. 138; p. 743.  
 Printing-press. J. T. Miller. No. 910,704; Jan. 26; Sp. p. 4652; Gaz. vol. 138; p. 846.  
 Printing-press. H. F. Anderson. No. 911,930; Feb. 9; Sp. p. 1759; Gaz. vol. 139; p. 326.  
 Printing-press. G. E. Pancoast. No. 912,724; Feb. 16; Sp. p. 3553; Gaz. vol. 139; p. 628.  
 Printing-press. J. E. Angel. No. 912,771; Feb. 16; Sp. p. 3657; Gaz. vol. 139; p. 645.  
 Printing-press. A. J. Ford. No. 915,948; Mar. 23; Sp. p. 4704; Gaz. vol. 140; p. 835.  
 Printing-press. A. Knobel. No. 916,562; Mar. 30; Sp. p. 5919; Gaz. vol. 140; p. 1062.  
 Printing-press. W. L. McCarty. No. 918,465; Apr. 13; Sp. p. 3045; Gaz. vol. 141; p. 535.  
 Printing-press. W. H. Smith. No. 920,406; May 4; Sp. p. 639; Gaz. vol. 142; p. 102.  
 Printing-press. F. W. Geissenhainer and M. S. Cumner. No. 921,536; May 11; Sp. p. 2954; Gaz. vol. 142; p. 508.  
 Printing-press. F. Waite. No. 923,220; June 1; Sp. p. 208; Gaz. vol. 143; p. 34.  
 Printing-press. G. Hartman. No. 923,836; June 8; Sp. p. 1670; Gaz. vol. 143; p. 277.  
 Printing-press. H. A. Toren. No. 925,399; June 15; Sp. p. 4828; Gaz. vol. 143; p. 825.  
 Printing-press. W. F. S. Ferry. No. 925,890; June 22; Sp. p. 5886; Gaz. vol. 143; p. 1017.  
 Printing-press. G. R. Cornwall. No. 926,102; June 29; Sp. p. 6313; Gaz. vol. 143; p. 1121.  
 Printing-press. L. A. Wheat. No. 926,795; July 6; Sp. p. 179; Gaz. vol. 144; p. 30.  
 Printing-press. E. O. Cartwright. No. 926,850; July 6; Sp. p. 306; Gaz. vol. 144; p. 50.  
 Printing-press. E. O. Cartwright. No. 926,851; July 6; Sp. p. 312; Gaz. vol. 144; p. 50.  
 Printing-press. C. S. Evans. No. 927,030; July 6; Sp. p. 689; Gaz. vol. 144; p. 111.  
 Printing-press. A. Hewitt. No. 927,351; July 6; Sp. p. 1304; Gaz. vol. 144; p. 216.  
 Printing-press. F. H. Van Loosen. No. 928,525; July 20; Sp. p. 3791; Gaz. vol. 144; p. 665.  
 Printing-press. S. B. Seaton and R. G. Travis. No. 930,497; Aug. 10; Sp. p. 1753; Gaz. vol. 145; p. 316.  
 Printing-press. B. F. Upham. No. 931,099; Aug. 17; Sp. p. 3105; Gaz. vol. 145; p. 544.  
 Printing-press. F. H. Van Loosen. No. 933,006; Aug. 31; Sp. p. 7092; Gaz. vol. 145; p. 1220.  
 Printing-press. E. N. Mills and G. W. Smith. No. 933,322; Sept. 7; Sp. p. 650; Gaz. vol. 146; p. 101.  
 Printing-press. A. F. Harris. No. 935,907; Oct. 5; Sp. p. 657; Gaz. vol. 147; p. 95.  
 Printing-press. A. J. Hodge. No. 937,527; Oct. 19; Sp. p. 4045; Gaz. vol. 147; p. 687.  
 Printing-press. A. J. Mottlau. No. 941,162; Nov. 23; Sp. p. 5994; Gaz. vol. 148; p. 1008.  
 Printing-press. G. E. Pancoast. No. 942,923; Dec. 14; Sp. p. 1905; Gaz. vol. 149; p. 332.  
 Printing-press. W. F. S. Ferry. No. 943,629; Dec. 14; Sp. p. 3439; Gaz. vol. 149; p. 575.  
 Printing-press adjustable platen. C. A. Pinkham. No. 912,727; Feb. 16; Sp. p. 3561; Gaz. vol. 139; p. 629.  
 Printing-press attachment. W. E. Schwalm. No. 913,984; Mar. 2; Sp. p. 704; Gaz. vol. 140; p. 110.  
 Printing-press attachment. A. P. Harland. No. 914,269; Mar. 2; Sp. p. 1312; Gaz. vol. 140; p. 203.  
 Printing-press attachment. A. Fields. No. 918,428; Apr. 13; Sp. p. 2967; Gaz. vol. 141; p. 523.  
 Printing-press attachment. H. and C. Taxter. No. 930,632; Aug. 10; Sp. p. 2087; Gaz. vol. 145; p. 364.  
 Printing-press attachment. T. Martin. No. 932,797; Aug. 31; Sp. p. 6724; Gaz. vol. 145; p. 1153.  
 Printing-press attachment. C. Van Middlesworth. No. 935,339; Sept. 28; Sp. p. 4763; Gaz. vol. 146; p. 843.  
 Printing-press automatic throw-off mechanism. J. E. Tucker. No. 913,177; Feb. 23; Sp. p. 4443; Gaz. vol. 139; p. 801.  
 Printing-press bed-motion. W. K. Hodgman and B. Hall. No. 911,498; Feb. 2; Sp. p. 891; Gaz. vol. 139; p. 157.  
 Printing-press belt-delivery clutch. J. Humphry. No. 916,318; Mar. 23; Sp. p. 5386; Gaz. vol. 140; p. 956.  
 Printing-press brake. C. A. Wright. No. 943,507; Dec. 14; Sp. p. 3170; Gaz. vol. 149; p. 533.



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- Printing-press chase. E. Karl. No. 921,411; May 11; Sp. p. 2715; Gaz. vol. 142; p. 467.  
 Printing-press driving mechanism. E. E. Babcock. No. 944,068; Dec. 21; Sp. p. 4374; Gaz. vol. 149; p. 754.  
 Printing-press envelop-feeder. L. W. Whitten. No. 915,140; Mar. 16; Sp. p. 3086; Gaz. vol. 140; p. 542.  
 Printing-press, Fabric multicolor-. O. Walther. No. 927,616; July 13; Sp. p. 1889; Gaz. vol. 144; p. 334.  
 Printing-press feed-gage. C. J. Harrison. No. 924,777; June 15; Sp. p. 3621; Gaz. vol. 143; p. 621.  
 Printing-press feed mechanism. A. J. Ford. No. 936,108; Oct. 5; Sp. p. 1069; Gaz. vol. 147; p. 163.  
 Printing-press feeder. A. Krause. No. 921,260; May 11; Sp. p. 2380; Gaz. vol. 142; p. 417.  
 Printing-press feeding-machine attachment. J. Kleidmann. No. 911,133; Feb. 2; Sp. p. 217; Gaz. vol. 139; p. 39.  
 Printing-press, Flat-bed. H. F. Bechman. No. 917,838; Apr. 13; Sp. p. 1757; Gaz. vol. 141; p. 323.  
 Printing-press folding apparatus. H. F. Bechman. No. 938,364; Oct. 26; Sp. p. 5812; Gaz. vol. 147; p. 986.  
 Printing-press gripper. B. F. Berry. No. 916,412; Mar. 30; Sp. p. 5588; Gaz. vol. 140; p. 1012.  
 Printing-press gripper. F. D. Hake. No. 924,983; June 15; Sp. p. 4051; Gaz. vol. 143; p. 690.  
 Printing-press gripper. F. D. Hake. No. 925,092; June 15; Sp. p. 4264; Gaz. vol. 143; p. 727.  
 Printing-press gripper. C. A. Harris. No. 927,853; July 13; Sp. p. 2401; Gaz. vol. 144; p. 411.  
 Printing-press gripper. M. W. Alger and C. L. Jacobson. No. 940,491; Nov. 16; Sp. p. 4546; Gaz. vol. 148; p. 760.  
 Printing-press guide. E. O. Anderson. No. 937,271; Oct. 19; Sp. p. 3487; Gaz. vol. 147; p. 603.  
 Printing-press ink-distributor, Automatic. W. B. Sheffield. No. 909,339; Jan. 12; Sp. p. 1845; Gaz. vol. 138; p. 331.  
 Printing-press ink-distributing device. R. Klucken. No. 910,691; Jan. 26; Sp. p. 4631; Gaz. vol. 138; p. 842.  
 Printing-press ink-fountain. A. M. Cottrell. No. 943,218; Dec. 14; Sp. p. 2549; Gaz. vol. 149; p. 432.  
 Printing-press inking attachment. T. Rafferty. No. 918,595; Apr. 20; Sp. p. 3333; Gaz. vol. 141; p. 606.  
 Printing-press inking mechanism. A. J. Ford. No. 917,037; Apr. 6; Sp. p. 155; Gaz. vol. 141; p. 30.  
 Printing-press inking-roller. W. L. McCarty. No. 916,357; Mar. 23; Sp. p. 5460; Gaz. vol. 140; p. 969.  
 Printing-press lock-up device. G. Kaysser. No. 914,848; Mar. 9; Sp. p. 2511; Gaz. vol. 140; p. 420.  
 Printing-press moistening mechanism. A. J. Ford. No. 916,432; Mar. 30; Sp. p. 5622; Gaz. vol. 140; p. 1019.  
 Printing-press, Multicolor-. A. P. Harland. No. 934,911; Sept. 21; Sp. p. 3881; Gaz. vol. 146; p. 674.  
 Printing-press, Multiple-. A. Scheuerer, Jr. No. 939,553; Nov. 9; Sp. p. 2441; Gaz. vol. 148; p. 405.  
 Printing-press numbering device. F. M. Turek. No. 910,611; Jan. 26; Sp. p. 4484; Gaz. vol. 138; p. 817.  
 Printing-press paper-feed mechanism. J. E. Tucker. No. 942,296; Dec. 7; Sp. p. 571; Gaz. vol. 149; p. 91.  
 Printing-press punch, Adjustable. W. C. Dillingham. No. 931,282; Aug. 17; Sp. p. 3526; Gaz. vol. 145; p. 609.  
 Printing-press registering-gage. J. O. Hankins. No. 924,985; June 15; Sp. p. 4057; Gaz. vol. 143; p. 691.  
 Printing-press roll-renewing attachment. J. T. Peto. No. 940,272; Nov. 16; Sp. p. 4025; Gaz. vol. 148; p. 686.  
 Printing-press, Rotary. F. M. Turek. No. 910,610; Jan. 26; Sp. p. 4482; Gaz. vol. 138; p. 817.  
 Printing-press, Rotary. H. F. Bechman. No. 927,931; July 13; Sp. p. 2572; Gaz. vol. 144; p. 438.  
 Printing-press, Rotary. H. M. Barber. No. 929,538; July 27; Sp. p. 5849; Gaz. vol. 144; p. 1028.  
 Printing-press, Rotary-cylinder web-. H. F. Bechman. No. 916,408; Mar. 30; Sp. p. 5581; Gaz. vol. 140; p. 1011.  
 Printing-press rotary folder. W. H. De Bush. No. 942,136; Dec. 7; Sp. p. 236; Gaz. vol. 149; p. 36.  
 Printing-press sheet-conveying mechanism. F. C. Stockholm. No. 915,632; Mar. 16; Sp. p. 4081; Gaz. vol. 140; p. 705.  
 Printing-press sheet-feeding apparatus. C. Hermann. No. 941,778; Nov. 30; Sp. p. 7330; Gaz. vol. 148; p. 1235.  
 Printing-press throw-offs, Actuating mechanism for. J. Springer. No. 919,084; Apr. 20; Sp. p. 4396; Gaz. vol. 141; p. 768.  
 Printing-presses and the like, Device for locking types on type-carrying members of. J. R. Haydon. No. 935,758; Oct. 5; Sp. p. 288; Gaz. vol. 147; p. 46.  
 Printing-presses, Bearer for. W. C. Deane. No. 923,415; June 1; Sp. p. 692; Gaz. vol. 143; p. 102.  
 Printing-presses, Construction of reciprocating beds for cylinder. M. Rockstroh. No. 935,550; Sept. 28; Sp. p. 5199; Gaz. vol. 146; p. 912.  
 Printing-presses, Guard for platen. J. Farrar. No. 927,226; July 6; Sp. p. 1085; Gaz. vol. 144; p. 176.  
 Printing-presses, Ink-supplying apparatus for. H. D. Washburn. No. 929,736; Aug. 3; Sp. p. 211; Gaz. vol. 145; p. 37.  
 Printing-presses, Means for supplying rolls of paper to. L. F. Pfister. No. 940,273; Nov. 16; Sp. p. 4033; Gaz. vol. 148; p. 686.  
 Printing-presses, Pneumatic folding mechanism for. S. G. Goss. No. 936,711; Oct. 12; Sp. p. 2340; Gaz. vol. 147; p. 388.  
 Printing-presses, Rotary folding mechanism for. J. J. Walser. No. 926,223; June 29; Sp. p. 6588; Gaz. vol. 143; p. 1163.  
 Printing-presses, Throw-off mechanism for the inking-rolls of rotary. L. A. Wheat. No. 942,119; Dec. 7; Sp. p. 196; Gaz. vol. 149; p. 30.  
 Printing-presses, Type-writing attachment for use on platen. C. C. Fraser and G. W. Lilley. No. 937,431; Oct. 19; Sp. p. 3537; Gaz. vol. 147; p. 653.  
 Printing processes, Composition of matter for transfer-. E. Pignone. No. 918,903; Apr. 20; Sp. p. 4056; Gaz. vol. 141; p. 711.  
 Printing, Registering cuts for color-. C. B. Howe. No. 927,049; July 6; Sp. p. 737; Gaz. vol. 144; p. 116.  
 Printing-shop-counter check-books, &c., Machine for. F. Waite. No. 918,104; Apr. 13; Sp. p. 2328; Gaz. vol. 141; p. 417.  
 Printing-stamp. A. J. Bradley. No. 920,533; May 4; Sp. p. 893; Gaz. vol. 142; p. 144.  
 Printing-surfaces, Producing. O. Dodge. No. 915,666; Mar. 16; Sp. p. 4164; Gaz. vol. 140; p. 718.  
 Printing-transfer-designs on paper in two or more colors or mediums, Apparatus for. W. Briggs. No. 923,242; June 1; Sp. p. 249; Gaz. vol. 143; p. 42.  
 Prismatic and diffusion inclosure. O. A. Mygatt. No. 935,220; Sept. 28; Sp. p. 4515; Gaz. vol. 146; p. 804.  
 Prison-signal, Automatic. J. E. Rhoads and H. C. Fashbaugh. No. 934,626; Sept. 21; Sp. p. 3336; Gaz. vol. 146; p. 581.  
 Pritch. C. Hoff. No. 940,597; Nov. 16; Sp. p. 4770; Gaz. vol. 148; p. 795.  
 Program-holder, Detachable-leaf. F. E. Sauerwein, R. Zacharias, and C. E. Lewis. No. 942,670; Dec. 7; Sp. p. 1323; Gaz. vol. 149; p. 218.  
 Program holder, Transparent theater-. F. E. Sauerwein, R. Zacharias, and C. E. Lewis. No. 942,669; Dec. 7; Sp. p. 1322; Gaz. vol. 149; p. 217.  
 Program-indicator, Electric. A. Lonergan. No. 920,163; May 4; Sp. p. 137; Gaz. vol. 142; p. 22.  
 Projectile. B. Nagle. No. 911,430; Feb. 2; Sp. p. 784; Gaz. vol. 139; p. 136.  
 Projectile. C. H. Hoxie. No. 911,591; Feb. 9; Sp. p. 1105; Gaz. vol. 139; p. 215.  
 Projectile. E. Gathmann. No. 922,573; May 25; Sp. p. 5100; Gaz. vol. 142; p. 905.  
 Projectile. A. Haase. No. 932,014; Aug. 24; Sp. p. 5085; Gaz. vol. 145; p. 370.  
 Projectile. K. Wieser. No. 932,214; Aug. 24; Sp. p. 5497; Gaz. vol. 145; p. 936.  
 Projectile. F. Ziegenfuss. No. 932,229; Aug. 24; Sp. p. 5531; Gaz. vol. 145; p. 941.  
 Projectile. H. M. Gleason. No. 939,682; Nov. 9; Sp. p. 2727; Gaz. vol. 148; p. 451.  
 Projectile, Armor-piercing. C. Grunwald. No. 927,852; July 13; Sp. p. 2400; Gaz. vol. 144; p. 410.  
 Projectile-cap. L. D. de Lanneau. No. 918,560; Apr. 20; Sp. p. 3261; Gaz. vol. 141; p. 594.  
 Projectile, Capped. A. J. Soden. No. 918,923; Apr. 20; Sp. p. 4095; Gaz. vol. 141; p. 718.  
 Projectile-charging apparatus. H. Maxim. No. 927,867; July 13; Sp. p. 2430; Gaz. vol. 144; p. 415.  
 Projectile, Explosive. M. C. Maunsell. No. 911,420; Feb. 2; Sp. p. 771; Gaz. vol. 139; p. 134.  
 Projectile, Hand-armor. A. Gleich. (Reissue.) No. 12,927; Mar. 16; Sp. p. 4280; Gaz. vol. 140; p. 736.  
 Projectiles, Attachment for. C. Davis. No. 942,617; Dec. 7; Sp. p. 1220; Gaz. vol. 149; p. 199.  
 Projectiles, Banding. T. A. Kearney. No. 930,863; Aug. 10; Sp. p. 2546; Gaz. vol. 145; p. 439.  
 Projectiles, &c., Device for testing the weight of. A. Rapp. No. 919,766; Apr. 27; Sp. p. 5997; Gaz. vol. 141; p. 1031.  
 Projecting apparatus. V. E. Mellie. No. 913,530; Feb. 23; Sp. p. 5163; Gaz. vol. 139; p. 920.  
 Projection apparatus. E. W. Goodrich. No. 908,560; Jan. 5; Sp. p. 267; Gaz. vol. 138; p. 45.  
 Projection apparatus. W. F. Folmer. No. 912,299; Feb. 16; Sp. p. 2630; Gaz. vol. 139; p. 283.  
 Projection-apparatus attachment. W. J. Ashley. No. 941,752; Nov. 30; Sp. p. 7266; Gaz. vol. 148; p. 1225.  
 Proof-roller, Self-inking. F. A. Bary. No. 913,189; Feb. 23; Sp. p. 4471; Gaz. vol. 139; p. 805.  
 Prop, Top-. E. Shoults. No. 917,171; Apr. 6; Sp. p. 425; Gaz. vol. 141; p. 74.  
 Propeller. E. D. Spear. No. 909,246; Jan. 12; Sp. p. 1669; Gaz. vol. 138; p. 301.  
 Propeller. F. J. Gowing. No. 913,951; Mar. 2; Sp. p. 615; Gaz. vol. 140; p. 97.  
 Propeller. M. B. Miller. No. 914,857; Mar. 9; Sp. p. 2529; Gaz. vol. 140; p. 422.  
 Propeller. D. J. Weddle. No. 915,136; Mar. 16; Sp. p. 3080; Gaz. vol. 140; p. 541.  
 Propeller. C. H. Weston. No. 917,217; Apr. 6; Sp. p. 524; Gaz. vol. 141; p. 91.  
 Propeller. L. Balog. No. 925,265; June 15; Sp. p. 4588; Gaz. vol. 143; p. 784.  
 Propeller. J. and A. Woll. No. 929,529; July 27; Sp. p. 5834; Gaz. vol. 144; p. 1025.  
 Propeller. B. D. Parrott. No. 930,220; Aug. 3; Sp. p. 1228; Gaz. vol. 145; p. 202.  
 Propeller. J. F. Ball. No. 933,013; Aug. 31; Sp. p. 7111; Gaz. vol. 145; p. 1222.  
 Propeller. T. Amelius. No. 933,151; Sept. 7; Sp. p. 233; Gaz. vol. 146; p. 40.  
 Propeller. U. B. Scott. No. 934,633; Sept. 21; Sp. p. 3353; Gaz. vol. 146; p. 564.  
 Propeller. T. Amelius. No. 936,508; Oct. 12; Sp. p. 1929; Gaz. vol. 147; p. 318.  
 Propeller. M. D. Thompson. No. 938,290; Oct. 26; Sp. p. 5628; Gaz. vol. 147; p. 962.  
 Propeller. M. D. Thompson. No. 938,291; Oct. 26; Sp. p. 5629; Gaz. vol. 147; p. 962.  
 Propeller. M. R. White. No. 938,733; Nov. 2; Sp. p. 611; Gaz. vol. 148; p. 96.  
 Propeller. O. P. Smith. No. 940,743; Nov. 23; Sp. p. 5099; Gaz. vol. 148; p. 869.



*Alphabetical list of inventions—Continued.*

- Propeller and current-motor. J. G. Gracey. No. 930,956; Aug. 10; Sp. p. 2756; Gaz. vol. 145; p. 469.
- Propeller, Boat-. S. T. Crawford. No. 929,564; July 27; Sp. p. 5897; Gaz. vol. 144; p. 1036.
- Propeller, Boat-. H. Zenke. No. 937,735; Oct. 19; Sp. p. 4446; Gaz. vol. 147; p. 754.
- Propeller, Boat-. F. P. McElfresh. No. 943,839; Dec. 21; Sp. p. 3883; Gaz. vol. 149; p. 676.
- Propeller, Buoyant. S. S. Williams. No. 915,398; Mar. 16; Sp. p. 3595; Gaz. vol. 140; p. 626.
- Propeller, Chain. J. S. Orr. No. 936,349; Oct. 12; Sp. p. 1550; Gaz. vol. 147; p. 265.
- Propeller-float. P. Ferrari. No. 918,029; Apr. 13; Sp. p. 2184; Gaz. vol. 141; p. 391.
- Propeller for boats, Drop-. F. E. Stribling. No. 931,159; Aug. 17; Sp. p. 3247; Gaz. vol. 145; p. 566.
- Propeller for vessels. O. Nielsen. No. 930,409; Aug. 10; Sp. p. 1585; Gaz. vol. 145; p. 287.
- Propeller, Lifting and driving. R. Strehlau. No. 935,130; Sept. 28; Sp. p. 4348; Gaz. vol. 146; p. 775.
- Propeller, Marine. D. Urch. No. 942,986; Dec. 14; Sp. p. 2048; Gaz. vol. 149; p. 355.
- Propeller mechanism, Collapsible. W. Morgan. No. 931,456; Aug. 17; Sp. p. 3872; Gaz. vol. 145; p. 667.
- Propeller, Reciprocating. B. D. Marks. No. 931,783; Aug. 24; Sp. p. 4581; Gaz. vol. 145; p. 794.
- Propeller, Reversing-. O. A. Bowers. No. 910,899; Jan. 26; Sp. p. 5039; Gaz. vol. 138; p. 908.
- Propeller, Screw-. G. Mackaness. No. 921,423; May 11; Sp. p. 2736; Gaz. vol. 142; p. 471.
- Propeller, Screw-. D. F. Lawrence. No. 933,768; Sept. 14; Sp. p. 1650; Gaz. vol. 146; p. 273.
- Propeller-shafts, &c., Transmission-gear for. P. Daimler. No. 924,323; June 8; Sp. p. 2683; Gaz. vol. 143; p. 437.
- Propeller, Ship-. G. A. Schlotter. No. 921,896; May 18; Sp. p. 3720; Gaz. vol. 142; p. 655.
- Propeller, Vessel-. J. Benyo. No. 918,948; Apr. 20; Sp. p. 4155; Gaz. vol. 141; p. 726.
- Propeller, Vibrating. E. Hildebrandt. No. 943,074; Dec. 14; Sp. p. 2275; Gaz. vol. 149; p. 385.
- Propeller, Weedless or self-clearing. W. L. Casaday. No. 911,939; Feb. 9; Sp. p. 1787; Gaz. vol. 139; p. 329.
- Propeller-wheel, Reversible. H. J. Perkins. No. 919,071; Apr. 20; Sp. p. 4373; Gaz. vol. 141; p. 764.
- Propellers, Liquid gear for. G. A. Boyden. No. 932,435; Aug. 31; Sp. p. 5923; Gaz. vol. 145; p. 1032.
- Propelling and steering apparatus. E. Tompkins. No. 931,899; Aug. 24; Sp. p. 4810; Gaz. vol. 145; p. 830.
- Propelling and steering apparatus, Hydrostatic. D. F. Vollmer. No. 917,201; Apr. 6; Sp. p. 490; Gaz. vol. 141; p. 86.
- Propelling and steering device, Vessel. W. B. Marble. No. 940,039; Nov. 16; Sp. p. 3525; Gaz. vol. 148; p. 603.
- Propelling device, Boat-. N. F. Loomer. No. 923,283; June 1; Sp. p. 397; Gaz. vol. 143; p. 56.
- Propelling device, Boat-. N. R. Thibert. No. 929,174; July 27; Sp. p. 5115; Gaz. vol. 144; p. 909.
- Propelling device, Ship-. M. Franklin. No. 938,750; Nov. 2; Sp. p. 644; Gaz. vol. 148; p. 103.
- Propelling means for vessels. T. B. Taylor. No. 938,911; Nov. 2; Sp. p. 1014; Gaz. vol. 148; p. 161.
- Propelling means, Vessel-. F. Fanning. No. 942,199; Dec. 7; Sp. p. 370; Gaz. vol. 149; p. 56.
- Propelling mechanism. J. C. Fleming. No. 916,430; Mar. 30; Sp. p. 5618; Gaz. vol. 140; p. 1018.
- Propelling mechanism. J. R. Fiala. No. 935,787; Oct. 5; Sp. p. 390; Gaz. vol. 147; p. 57.
- Propelling mechanism, Boat-. B. F. Jacobs. No. 939,028; Nov. 2; Sp. p. 1246; Gaz. vol. 148; p. 199.
- Propelling ships and other water-vehicles, Mechanism for. L. Diehl. No. 930,359; Aug. 10; Sp. p. 1493; Gaz. vol. 145; p. 271.
- Propelling system, Vessel-. T. Motton. No. 927,996; July 13; Sp. p. 2685; Gaz. vol. 144; p. 458.
- Propelling vessels, Means for. F. Ishöy. No. 923,123; May 25; Sp. p. 6255; Gaz. vol. 142; p. 1082.
- Proportional meter. E. V. French and G. F. Hiller. No. 923,258; June 1; Sp. p. 297; Gaz. vol. 143; p. 47.
- Proportional meter. J. C. Anderson. No. 940,114; Nov. 16; Sp. p. 3702; Gaz. vol. 148; p. 631.
- Propulsion, Boat. G. Gays. No. 921,823; May 18; Sp. p. 3566; Gaz. vol. 142; p. 632.
- Propulsion, Marine. M. J. Flynn and J. C. Patnode. No. 928,035; July 13; Sp. p. 2767; Gaz. vol. 144; p. 472.
- Propulsion of submarine boats. C. Del Proposto. No. 944,776; Dec. 28; Sp. p. 5919; Gaz. vol. 149; p. 1021.
- Propulsion, System of boat. J. Rivers. No. 921,891; May 18; Sp. p. 3701; Gaz. vol. 142; p. 653.
- Protector, Individual. F. B. Cook. No. 919,696; Apr. 27; Sp. p. 5875; Gaz. vol. 141; p. 1009.
- Protector, Individual. F. B. Cook. No. 944,258; Dec. 28; Sp. p. 4765; Gaz. vol. 149; p. 842.
- Protectors, slugs, or fasteners, Machine for inserting. M. F. Brogan. No. 938,118; Oct. 26; Sp. p. 5256; Gaz. vol. 147; p. 902.
- Proteids and amines, Thermoplastic compound for. B. B. Goldsmith. No. 922,133; May 18; Sp. p. 4186; Gaz. vol. 142; p. 732.
- Proteids from butter milk, Producing certain. L. H. Reuter. No. 911,269; Feb. 2; Sp. p. 491; Gaz. vol. 139; p. 84.
- Protractor. C. O. Schellenbach. No. 909,686; Jan. 12; Sp. p. 2519; Gaz. vol. 138; p. 447.
- Protractor. J. G. Spofford. No. 926,615; June 29; Sp. p. 7318; Gaz. vol. 143; p. 1291.
- Protractor. F. Probst. No. 935,860; Oct. 5; Sp. p. 562; Gaz. vol. 147; p. 81.
- Protractor and level. N. R. Thibert. No. 942,114; Dec. 7; Sp. p. 186; Gaz. vol. 149; p. 28.
- Protractor or spacing instrument. E. M. Low. No. 918,065; Apr. 13; Sp. p. 2247; Gaz. vol. 141; p. 404.
- Pruning appliance. A. S. Kleinsmith. No. 927,359; July 6; Sp. p. 1314; Gaz. vol. 144; p. 218.
- Pruning-hook. J. Swegles. No. 934,947; Sept. 21; Sp. p. 3965; Gaz. vol. 146; p. 688.
- Pruning implement. E. N. Higley. No. 913,290; Feb. 23; Sp. p. 4672; Gaz. vol. 139; p. 838.
- Pruning implement. W. R. Payne. No. 917,482; Apr. 6; Sp. p. 1030; Gaz. vol. 141; p. 179.
- Pruning implement. H. H. Boenker and W. D. Schone. No. 924,882; June 15; Sp. p. 3837; Gaz. vol. 143; p. 665.
- Pruning implement. H. A. and R. Barnard. No. 928,018; July 13; Sp. p. 2727; Gaz. vol. 144; p. 465.
- Pruning implement. G. F. Jenkins. No. 930,183; Aug. 3; Sp. p. 1179; Gaz. vol. 145; p. 192.
- Pruning-knife. S. Szeftli. No. 919,977; Apr. 27; Sp. p. 6444; Gaz. vol. 141; p. 1101.
- Pruning-shears. C. W. Washburn. No. 936,390; Oct. 12; Sp. p. 1649; Gaz. vol. 147; p. 280.
- Pruning-shears. E. Arneson. No. 938,627; Nov. 2; Sp. p. 411; Gaz. vol. 148; p. 62.
- Puff-iron. J. W. Cook. No. 937,229; Oct. 19; Sp. p. 3396; Gaz. vol. 147; p. 588.
- Puffing-iron. C. Hornberger and B. Bath. No. 928,054; July 13; Sp. p. 2815; Gaz. vol. 144; p. 479.
- Pull-socket. M. J. Flynn. No. 921,969; May 18; Sp. p. 3373; Gaz. vol. 142; p. 678.
- Pull-socket. G. B. Thomas. No. 934,236; Sept. 14; Sp. p. 2578; Gaz. vol. 146; p. 426.
- Pull-support. J. D. Campbell. No. 915,712; Mar. 16; Sp. p. 4247; Gaz. vol. 140; p. 732.
- Puller: See Beet-puller; Bolt-puller; Cork-puller; Flax-puller; Jack, wire-stretcher, and post-puller; Nail-puller; Nail and board puller; Pipe-puller; Railway-tie puller; Spike-puller; Staple-puller; Stoppie-puller; Stump-puller; Tack-puller.
- Pulley. H. J. Gilbert. No. 910,527; Jan. 26; Sp. p. 4293; Gaz. vol. 138; p. 788.
- Pulley. J. G. Häsler. No. 916,308; Mar. 23; Sp. p. 5367; Gaz. vol. 140; p. 952.
- Pulley. R. H. Noble. No. 917,479; Apr. 6; Sp. p. 1026; Gaz. vol. 141; p. 179.
- Pulley. L. Whitcomb. No. 921,766; May 18; Sp. p. 3448; Gaz. vol. 142; p. 613.
- Pulley. O. K. Harry. No. 923,730; June 1; Sp. p. 1551; Gaz. vol. 143; p. 231.
- Pulley. W. R. Routt. No. 928,071; July 13; Sp. p. 2840; Gaz. vol. 144; p. 484.
- Pulley. P. D. Skahen. No. 928,338; July 20; Sp. p. 3435; Gaz. vol. 144; p. 605.
- Pulley. U. T. Gaba. No. 928,746; July 20; Sp. p. 4242; Gaz. vol. 144; p. 739.
- Pulley. J. T. Voigt. No. 932,838; Aug. 31; Sp. p. 6793; Gaz. vol. 145; p. 1165.
- Pulley. T. X. Jones. No. 936,778; Oct. 12; Sp. p. 2467; Gaz. vol. 147; p. 410.
- Pulley and rope or cable holder. G. J. Batzer. No. 916,091; Mar. 23; Sp. p. 4977; Gaz. vol. 140; p. 882.
- Pulley attachment, Clutch-. W. C. Perry. No. 922,719; May 25; Sp. p. 5399; Gaz. vol. 142; p. 951.
- Pulley, Band-. O. C. Wyssong. No. 918,248; Apr. 13; Sp. p. 2627; Gaz. vol. 141; p. 465.
- Pulley-block. F. A. Hall. No. 915,953; Mar. 23; Sp. p. 4713; Gaz. vol. 140; p. 836.
- Pulley-block, Separable. J. K. Voorhees and V. V. Speer. No. 909,971; Jan. 19; Sp. p. 3109; Gaz. vol. 138; p. 575.
- Pulley, Cut-out suspension-. C. S. Moon. No. 911,252; Feb. 2; Sp. p. 460; Gaz. vol. 139; p. 79.
- Pulley-drive, Variable-speed. C. P. Strite. No. 929,049; July 27; Sp. p. 4551; Gaz. vol. 144; p. 867.
- Pulley, Elevator-belt. J. Anderson. No. 931,982; Aug. 24; Sp. p. 5016; Gaz. vol. 145; p. 859.
- Pulley, Expandible. C. F. Benjamin. No. 912,442; Feb. 16; Sp. p. 2926; Gaz. vol. 139; p. 530.
- Pulley made in two parts, Rope-. J. F. Henry. No. 927,969; July 13; Sp. p. 2645; Gaz. vol. 144; p. 450.
- Pulley mechanism, Reversing. J. Darling and J. W. Culbertson. No. 915,564; Mar. 16; Sp. p. 3940; Gaz. vol. 140; p. 680.
- Pulley, Sheet-metal. J. E. Zimmermann. No. 909,506; Jan. 12; Sp. p. 2180; Gaz. vol. 138; p. 386.
- Pulley, Split. F. B. Hubbard. No. 925,701; June 22; Sp. p. 5443; Gaz. vol. 143; p. 953.
- Pulley, Split. H. D. Walker. No. 937,742; Oct. 19; Sp. p. 4461; Gaz. vol. 147; p. 756.
- Pulley, Split metal. E. Phillips. No. 940,720; Nov. 23; Sp. p. 5045; Gaz. vol. 148; p. 862.
- Pulley, Tension-. J. Gartzweiler. No. 932,117; Aug. 24; Sp. p. 5304; Gaz. vol. 145; p. 904.
- Pulley, Window-shade catch-. A. H. Hover and A. N. Fries. No. 936,900; Oct. 12; Sp. p. 2707; Gaz. vol. 147; p. 451.
- Pulling-over machine. J. Armbruster. No. 922,235; May 18; Sp. p. 4411; Gaz. vol. 142; p. 765.
- Pulling-over machine. H. Walther. No. 942,155; Dec. 7; Sp. p. 282; Gaz. vol. 149; p. 43.
- Pulp-agitator. W. C. Paterson. No. 923,571; June 1; Sp. p. 1021; Gaz. vol. 143; p. 157.
- Pulp-agitator. W. C. Paterson. No. 940,612; Nov. 16; Sp. p. 4797; Gaz. vol. 148; p. 800.
- Pulp articles, Apparatus for making. M. L. Keyes. No. 908,577; Jan. 5; Sp. p. 301; Gaz. vol. 138; p. 51.

*Alphabetical list of inventions—Continued.*

- Pulp articles, Apparatus for making. M. L. Keyes. (Reissue.) No. 12,911; Jan. 12; Sp. p. 2855; Gaz. vol. 138; p. 503.  
Pulp-board, Apparatus for producing reinforced. W. W. Clark. No. 921,674; May 11; Sp. p. 3275; Gaz. vol. 142; p. 582.  
Pulp-digesters, Charging. E. F. Parker. No. 942,924; Dec. 14; Sp. p. 1911; Gaz. vol. 149; p. 333.  
Pulp-feed regulator. A. Schultz. No. 943,165; Dec. 14; Sp. p. 2444; Gaz. vol. 149; p. 415.  
Pulp-feeder. J. B. Green. No. 929,420; July 27; Sp. p. 5643; Gaz. vol. 144; p. 990.  
Pulp-grinder. S. R. Wagg. No. 933,603; Sept. 7; Sp. p. 1318; Gaz. vol. 146; p. 194.  
Pulp, Machine for saving waste. E. F. Parker. No. 942,925; Dec. 14; Sp. p. 1913; Gaz. vol. 149; p. 333.  
Pulp, Manufacturing wood-. C. B. Clark. No. 927,950; July 13; Sp. p. 2611; Gaz. vol. 144; p. 444.  
Pulp-mill reclaiming apparatus. C. B. Clark. No. 927,951; July 13; Sp. p. 2618; Gaz. vol. 144; p. 445.  
Pulp-press attachment. J. O. Hunt. No. 927,856; July 13; Sp. p. 2408; Gaz. vol. 144; p. 412.  
Pulp-press, Automatic. K. A. Torsen. No. 910,245; Jan. 19; Sp. p. 3678; Gaz. vol. 138; p. 668.  
Pulp-refining engine. F. W. Quantz. No. 933,582; Sept. 7; Sp. p. 1266; Gaz. vol. 146; p. 187.  
Pulp-screen. N. Magnant. No. 909,006; Jan. 5; Sp. p. 1181; Gaz. vol. 138; p. 188.  
Pulp-screen. B. W. Boyd. No. 911,469; Feb. 2; Sp. p. 842; Gaz. vol. 139; p. 148.  
Pulp-screen-plate fastener. E. A. Bayley. No. 918,261; Apr. 13; Sp. p. 2649; Gaz. vol. 141; p. 469.  
Pulp-screening machine. J. F. Fisher. No. 941,017; Nov. 23; Sp. p. 5686; Gaz. vol. 148; p. 960.  
Pulp-separator. B. J. Noyes. No. 916,481; Mar. 30; Sp. p. 5738; Gaz. vol. 140; p. 1036.  
Pulp-shaping machine. A. Komp. No. 941,884; Nov. 30; Sp. p. 7559; Gaz. vol. 148; p. 1272.  
Pulp-strainer. H. Stub and T. Qviller. No. 925,667; June 22; Sp. p. 5382; Gaz. vol. 143; p. 942.  
Pulp-strainer, Rotating. C. A. Johnson. No. 917,305; Apr. 6; Sp. p. 717; Gaz. vol. 141; p. 122.  
Pulp-wood barker and peeling machine. Rotary. A. Roberts and A. Libert. No. 934,464; Sept. 21; Sp. p. 3017; Gaz. vol. 146; p. 526.  
Pulper. J. L. Walton. No. 928,009; July 13; Sp. p. 2713; Gaz. vol. 144; p. 462.  
Pulsator. A. H. Gibson. No. 915,950; Mar. 23; Sp. p. 4707; Gaz. vol. 140; p. 835.  
Pulsator-controller, Electrically-driven. A. H. Gibson. No. 915,951; Mar. 23; Sp. p. 4709; Gaz. vol. 140; p. 836.  
Pulverized substances, Distributor for. S. W. and W. H. Farnham. No. 917,757; Apr. 13; Sp. p. 1580; Gaz. vol. 141; p. 298.  
Pulverizer. W. H. Hess. No. 910,196; Jan. 19; Sp. p. 3562; Gaz. vol. 138; p. 648.  
Pulverizer. W. Gruendler. No. 916,697; Mar. 30; Sp. p. 6170; Gaz. vol. 140; p. 1105.  
Pulverizer. O. C. Beach. No. 922,242; May 18; Sp. p. 4419; Gaz. vol. 142; p. 767.  
Pulverizer. A. F. Peterson. No. 927,277; July 6; Sp. p. 1180; Gaz. vol. 144; p. 194.  
Pulverizer. J. W. Block. No. 937,411; Oct. 19; Sp. p. 3792; Gaz. vol. 147; p. 647.  
Pulverizer. M. J. Williams. No. 939,769; Nov. 9; Sp. p. 2925; Gaz. vol. 148; p. 481.  
Pulverizer. M. J. Williams. No. 939,770; Nov. 9; Sp. p. 2927; Gaz. vol. 148; p. 481.  
Pulverizer. M. J. Williams. No. 939,771; Nov. 9; Sp. p. 2928; Gaz. vol. 148; p. 481.  
Pulverizer. M. J. Williams. No. 939,772; Nov. 9; Sp. p. 2929; Gaz. vol. 148; p. 482.  
Pulverizer. M. J. Williams. No. 939,773; Nov. 9; Sp. p. 2930; Gaz. vol. 148; p. 482.  
Pulverizer. M. J. Williams. No. 939,774; Nov. 9; Sp. p. 2932; Gaz. vol. 148; p. 482.  
Pulverizer. M. J. Williams. No. 939,775; Nov. 9; Sp. p. 2933; Gaz. vol. 148; p. 483.  
Pulverizer. M. J. Williams. No. 939,776; Nov. 9; Sp. p. 2934; Gaz. vol. 148; p. 483.  
Pulverizer. M. J. Williams. No. 939,777; Nov. 9; Sp. p. 2935; Gaz. vol. 148; p. 483.  
Pulverizer. M. J. Williams. No. 939,778; Nov. 9; Sp. p. 2936; Gaz. vol. 148; p. 484.  
Pulverizer and leveler. T. V. Barnard. No. 909,051; Jan. 5; Sp. p. 1263; Gaz. vol. 138; p. 203.  
Pulverizer and planter, Combined. J. E. Houghland. No. 928,452; July 20; Sp. p. 3650; Gaz. vol. 144; p. 643.  
Pulverizer, Land-. L. Traub. No. 943,499; Dec. 14; Sp. p. 3122; Gaz. vol. 149; p. 527.  
Pulverizer, Soil-. C. E. Griffin. No. 936,712; Oct. 12; Sp. p. 2345; Gaz. vol. 147; p. 389.  
Pulverizing-machine. H. Besser. No. 909,275; Jan. 12; Sp. p. 1721; Gaz. vol. 138; p. 310.  
Pulverizing-machine. W. K. Nix, Jr. No. 935,161; Sept. 28; Sp. p. 4396; Gaz. vol. 146; p. 785.  
Pulverizing-machine. E. E. Wann. No. 942,424; Dec. 7; Sp. p. 813; Gaz. vol. 149; p. 133.  
Pulverizing-mill. J. C. Clark. No. 940,129; Nov. 16; Sp. p. 3734; Gaz. vol. 148; p. 636.  
Pulverizing-mills, Bearing for. M. Benjamin. No. 937,203; Oct. 19; Sp. p. 3332; Gaz. vol. 147; p. 579.  
Pulverizing or grinding mill. J. W. Fuller, Jr. No. 922,468; May 25; Sp. p. 4884; Gaz. vol. 142; p. 870.  
Pulverizing or grinding mill. E. H. Callaway. No. 944,073; Dec. 21; Sp. p. 4384; Gaz. vol. 149; p. 756.  
Pulverizing-roller. E. E. Porter. No. 922,505; May 25; Sp. p. 4943; Gaz. vol. 142; p. 881.  
Pulverizing-roller. E. E. Porter. No. 922,506; May 25; Sp. p. 4945; Gaz. vol. 142; p. 881.  
Pump. C. Behn. No. 909,135; Jan. 12; Sp. p. 1462; Gaz. vol. 138; p. 266.  
Pump. R. C. Bingham. No. 909,276; Jan. 12; Sp. p. 1724; Gaz. vol. 138; p. 310.  
Pump. G. A. Rockola. No. 909,676; Jan. 12; Sp. p. 2504; Gaz. vol. 138; p. 444.  
Pump. I. E. Smith. No. 909,955; Jan. 19; Sp. p. 3084; Gaz. vol. 138; p. 570.  
Pump. A. J. Adamson. No. 910,107; Jan. 19; Sp. p. 3368; Gaz. vol. 138; p. 619.  
Pump. T. T. Graser. No. 910,125; Jan. 19; Sp. p. 3409; Gaz. vol. 138; p. 625.  
Pump. E. K. Hood. No. 910,539; Jan. 26; Sp. p. 4313; Gaz. vol. 138; p. 792.  
Pump. C. W. Enos and J. M. West. No. 910,802; Jan. 26; Sp. p. 4862; Gaz. vol. 138; p. 878.  
Pump. A. Blauvelt. No. 911,569; Feb. 9; Sp. p. 1063; Gaz. vol. 139; p. 208.  
Pump. F. Woodhead. No. 911,929; Feb. 9; Sp. p. 1757; Gaz. vol. 139; p. 325.  
Pump. H. L. Perrine. No. 912,025; Feb. 9; Sp. p. 2051; Gaz. vol. 139; p. 357.  
Pump. L. K. Pulliam. No. 912,888; Feb. 16; Sp. p. 3855; Gaz. vol. 139; p. 680.  
Pump. J. J. Wernette. No. 913,179; Feb. 23; Sp. p. 4446; Gaz. vol. 139; p. 802.  
Pump. E. A. Costephens and D. D. Snow. No. 915,744; Mar. 23; Sp. p. 4332; Gaz. vol. 140; p. 770.  
Pump. P. A. Myers. No. 915,994; Mar. 23; Sp. p. 4802; Gaz. vol. 140; p. 849.  
Pump. J. H. Owen. No. 916,583; Mar. 30; Sp. p. 5959; Gaz. vol. 140; p. 1069.  
Pump. W. O. McCurdy. No. 916,760; Mar. 30; Sp. p. 6271; Gaz. vol. 140; p. 1122.  
Pump. S. Perry. No. 916,777; Mar. 30; Sp. p. 6299; Gaz. vol. 140; p. 1126.  
Pump. T. E. Cherry. No. 918,007; Apr. 13; Sp. p. 2133; Gaz. vol. 141; p. 383.  
Pump. G. L. Herz. No. 918,319; Apr. 13; Sp. p. 2755; Gaz. vol. 141; p. 488.  
Pump. J. B. and P. L. Boulicault. No. 919,416; Apr. 27; Sp. p. 5274; Gaz. vol. 141; p. 913.  
Pump. A. T. Kasley. No. 921,118; May 11; Sp. p. 2088; Gaz. vol. 142; p. 368.  
Pump. W. Patten. No. 921,885; May 18; Sp. p. 3690; Gaz. vol. 142; p. 651.  
Pump. L. L. Pratt. No. 922,189; May 18; Sp. p. 4303; Gaz. vol. 142; p. 751.  
Pump. M. Still. No. 922,205; May 18; Sp. p. 4347; Gaz. vol. 142; p. 756.  
Pump. W. S. Dobie. No. 922,269; May 18; Sp. p. 4480; Gaz. vol. 142; p. 777.  
Pump. J. E. Shutt. No. 924,697; June 15; Sp. p. 3448; Gaz. vol. 143; p. 593.  
Pump. J. G. Callan. No. 924,730; June 15; Sp. p. 3515; Gaz. vol. 143; p. 604.  
Pump. F. D. Winkley. No. 925,147; June 15; Sp. p. 4367; Gaz. vol. 143; p. 745.  
Pump. M. Laux. No. 927,415; July 6; Sp. p. 1428; Gaz. vol. 144; p. 237.  
Pump. D. Strickler. No. 929,048; July 27; Sp. p. 4850; Gaz. vol. 144; p. 867.  
Pump. B. H. Jeanes. No. 929,224; July 27; Sp. p. 5212; Gaz. vol. 144; p. 924.  
Pump. W. C. McLeod. No. 929,467; July 27; Sp. p. 5724; Gaz. vol. 144; p. 1005.  
Pump. J. H. Owen. No. 929,626; July 27; Sp. p. 6037; Gaz. vol. 144; p. 1057.  
Pump. E. W. Christie. No. 930,838; Aug. 10; Sp. p. 2491; Gaz. vol. 145; p. 431.  
Pump. H. Cunnig. No. 930,940; Aug. 10; Sp. p. 2715; Gaz. vol. 145; p. 464.  
Pump. F. Foley. No. 934,435; Sept. 21; Sp. p. 2964; Gaz. vol. 146; p. 517.  
Pump. A. Baird, Sr. No. 936,076; Oct. 5; Sp. p. 1012; Gaz. vol. 147; p. 153.  
Pump. R. Conrader. No. 936,605; Oct. 12; Sp. p. 2119; Gaz. vol. 147; p. 352.  
Pump. R. Conrader. No. 936,606; Oct. 12; Sp. p. 2125; Gaz. vol. 147; p. 352.  
Pump. R. F. Kreiter. No. 937,246; Oct. 19; Sp. p. 3433; Gaz. vol. 147; p. 594.  
Pump. C. E. Green. No. 937,790; Oct. 26; Sp. p. 4578; Gaz. vol. 147; p. 793.  
Pump. A. Heimann and L. Flatow. No. 939,911; Nov. 9; Sp. p. 3213; Gaz. vol. 148; p. 530.  
Pump. N. McCarty. No. 940,703; Nov. 23; Sp. p. 5009; Gaz. vol. 148; p. 855.  
Pump. N. McCarty. No. 940,704; Nov. 23; Sp. p. 5011; Gaz. vol. 148; p. 856.  
Pump. W. T. McLean, H. C. Lyons, and C. R. Clark. No. 940,817; Nov. 23; Sp. p. 5273; Gaz. vol. 148; p. 894.  
Pump. A. W. Schramm. No. 941,958; Nov. 30; Sp. p. 7701; Gaz. vol. 148; p. 1297.  
Pump. C. F. Preslar. No. 942,145; Dec. 7; Sp. p. 261; Gaz. vol. 149; p. 39.  
Pump. N. McCarty. No. 943,988; Dec. 21; Sp. p. 4215; Gaz. vol. 149; p. 727.



*Alphabetical list of inventions—Continued.*

- Pump. C. O. Lucas. No. 944,243; Dec. 21; Sp. p. 4727; Gaz. vol. 149; p. 809.  
 Pump. A. A. Fleener. No. 944,425; Dec. 28; Sp. p. 5135; Gaz. vol. 149; p. 901.  
 Pump, Air-. F. E. Ten Eyck. No. 924,855; June 15; Sp. p. 3784; Gaz. vol. 143; p. 647.  
 Pump, Air-. E. J. McCutchen. No. 930,781; Aug. 10; Sp. p. 2378; Gaz. vol. 145; p. 411.  
 Pump, Air-. A. M. Kjaersgaard and C. S. J. Wiese. No. 932,143; Aug. 24; Sp. p. 5352; Gaz. vol. 145; p. 913.  
 Pump, Air-compressing. S. Dahlberg. No. 929,401; July 27; Sp. p. 5619; Gaz. vol. 144; p. 985.  
 Pump, Air-lift. O. E. Harris. No. 923,169; June 1; Sp. p. 104; Gaz. vol. 143; p. 17.  
 Pump, Air-lift. F. G. Kimball. No. 939,270; Nov. 9; Sp. p. 1788; Gaz. vol. 148; p. 309.  
 Pump and drill rods, Grab for. E. P. Law. No. 921,417; May 11; Sp. p. 2725; Gaz. vol. 142; p. 469.  
 Pump and egg-beater, Cream-. J. H. Reed. No. 943,892; Dec. 21; Sp. p. 3996; Gaz. vol. 149; p. 693.  
 Pump and like machine, Rotary. J. L. Hanman. No. 924,773; June 15; Sp. p. 3613; Gaz. vol. 143; p. 620.  
 Pump and pressure controlling device, Hydraulic. J. W. Nelson. No. 914,162; Mar. 2; Sp. p. 1072; Gaz. vol. 140; p. 171.  
 Pump and spray-tank, Combined force-. R. S. Sheldon. No. 921,010; May 11; Sp. p. 1861; Gaz. vol. 142; p. 330.  
 Pump attachment, Oil-. C. B. Aggas and J. E. Rabbitt. No. 942,954; Dec. 14; Sp. p. 1985; Gaz. vol. 149; p. 344.  
 Pump attachment, Tire-. H. H. Rung. No. 944,213; Dec. 21; Sp. p. 4663; Gaz. vol. 149; p. 799.  
 Pump, Automatic air-. E. Reed. No. 940,892; Nov. 23; Sp. p. 5422; Gaz. vol. 148; p. 918.  
 Pump, Automatic oiling-. P. A. Tornwall and E. E. Darrow. No. 937,488; Oct. 19; Sp. p. 3966; Gaz. vol. 147; p. 673.  
 Pump, Automatic steam-. W. S. Ferguson. No. 938,418; Oct. 26; Sp. p. 5929; Gaz. vol. 147; p. 1005.  
 Pump, blower, and the like, Centrifugal and similar. W. Scheurmann. No. 939,333; Nov. 9; Sp. p. 1942; Gaz. vol. 148; p. 332.  
 Pump-bracket. L. A. Washburne. No. 939,360; Nov. 9; Sp. p. 2018; Gaz. vol. 148; p. 341.  
 Pump, Breast-. E. P. Fowler. No. 940,454; Nov. 16; Sp. p. 4475; Gaz. vol. 148; p. 748.  
 Pump, Bucket-. W. L. Deming. No. 913,203; Feb. 23; Sp. p. 4496; Gaz. vol. 139; p. 810.  
 Pump, Cam-operated. S. W. Luitwieler. No. 926,267; June 29; Sp. p. 6669; Gaz. vol. 143; p. 1177.  
 Pump, Carbureter air-. A. D. Elliott. No. 920,443; May 4; Sp. p. 717; Gaz. vol. 142; p. 114.  
 Pump, Centrifugal. S. A. Huntley. No. 913,140; Feb. 23; Sp. p. 4367; Gaz. vol. 139; p. 789.  
 Pump, Centrifugal. W. K. Richardson. No. 916,370; Mar. 23; Sp. p. 5482; Gaz. vol. 140; p. 973.  
 Pump, Centrifugal. S. A. Huntley. No. 919,869; Apr. 27; Sp. p. 6252; Gaz. vol. 141; p. 1066.  
 Pump, Centrifugal. A. N. Parnall. No. 921,624; May 11; Sp. p. 3148; Gaz. vol. 142; p. 538.  
 Pump, Centrifugal. H. A. Prindle. No. 928,327; July 20; Sp. p. 3417; Gaz. vol. 144; p. 600.  
 Pump, Centrifugal. F. Neumann. No. 931,636; Aug. 17; Sp. p. 4205; Gaz. vol. 145; p. 721.  
 Pump, Centrifugal. C. W. Lerner. No. 932,297; Aug. 24; Sp. p. 5656; Gaz. vol. 145; p. 965.  
 Pump, Centrifugal. J. Valk. No. 933,681; Sept. 7; Sp. p. 1463; Gaz. vol. 146; p. 220.  
 Pump, Centrifugal. C. V. Kerr. No. 940,257; Nov. 16; Sp. p. 4001; Gaz. vol. 148; p. 681.  
 Pump, Centrifugal. D. V. Burrell. No. 941,557; Nov. 30; Sp. p. 6848; Gaz. vol. 148; p. 1160.  
 Pump, Circulating-. E. Guenther. No. 944,032; Dec. 21; Sp. p. 4304; Gaz. vol. 149; p. 742.  
 Pump, circulator, and like appliance. J. Brundrit. No. 908,738; Jan. 5; Sp. p. 660; Gaz. vol. 138; p. 102.  
 Pump, Cleaning-. R. L. Dutton. No. 910,516; Jan. 26; Sp. p. 4278; Gaz. vol. 138; p. 785.  
 Pump, Compound. J. Desmond. No. 909,163; Jan. 12; Sp. p. 1512; Gaz. vol. 138; p. 274.  
 Pump, Compression-. F. G. Perez. No. 921,155; May 11; Sp. p. 2155; Gaz. vol. 142; p. 380.  
 Pump, Computing-. S. G. Wise, J. E. Troyer, Jr., and J. E. Smisor. No. 936,069; Oct. 5; Sp. p. 994; Gaz. vol. 147; p. 150.  
 Pump connection. C. L. Bastian. No. 912,274; Feb. 16; Sp. p. 2579; Gaz. vol. 139; p. 475.  
 Pump counterbalancing device. C. K. Cotten. No. 914,385; Mar. 9; Sp. p. 1567; Gaz. vol. 140; p. 266.  
 Pump counterbalancing device. J. O. Bane. No. 939,967; Nov. 16; Sp. p. 3341; Gaz. vol. 148; p. 578.  
 Pump, Deep-well. R. C. Purcell. No. 911,609; Feb. 9; Sp. p. 1142; Gaz. vol. 139; p. 220.  
 Pump, Deep-well. E. A. Hardison, R. W. Gunn, and W. A. S. Thompson. No. 927,236; July 6; Sp. p. 1109; Gaz. vol. 144; p. 180.  
 Pump, Deep-well. B. Dewoody. No. 928,639; July 20; Sp. p. 4038; Gaz. vol. 144; p. 703.  
 Pump, Deep-well. G. W. Price. No. 930,614; Aug. 10; Sp. p. 2040; Gaz. vol. 145; p. 357.  
 Pump, Dispensing-. C. F. Pressler. No. 913,848; Mar. 2; Sp. p. 358; Gaz. vol. 140; p. 61.  
 Pump, Dispensing-. M. H. Petigor. No. 923,201; June 1; Sp. p. 171; Gaz. vol. 143; p. 28.  
 Pump, Dispensing-. A. Shields. No. 929,990; Aug. 3; Sp. p. 783; Gaz. vol. 145; p. 125.  
 Pump, Distributing-. W. E. S. Strong. No. 927,759; July 13; Sp. p. 2194; Gaz. vol. 144; p. 380.  
 Pump, Double-acting. F. J. Pratt, Jr. No. 914,457; Mar. 9; Sp. p. 1698; Gaz. vol. 140; p. 291.  
 Pump, Double-acting. A. A. Bowser. No. 932,531; Aug. 31; Sp. p. 6131; Gaz. vol. 145; p. 1064.  
 Pump, Double-acting. J. J. Rexroth. No. 940,192; Nov. 16; Sp. p. 3871; Gaz. vol. 148; p. 657.  
 Pump, Double-acting. R. G. Holekamp. No. 943,018; Dec. 14; Sp. p. 2135; Gaz. vol. 149; p. 366.  
 Pump, Double-acting deep-well. J. Gleason. No. 913,123; Feb. 23; Sp. p. 4332; Gaz. vol. 139; p. 783.  
 Pump, Dredger-. F. H. Jackson. No. 914,283; Mar. 2; Sp. p. 1338; Gaz. vol. 140; p. 207.  
 Pump for automobile-tires. H. Swain. No. 938,522; Nov. 2; Sp. p. 184; Gaz. vol. 148; p. 26.  
 Pump for automobiles, Power air-. W. J. Spencer. No. 924,115; June 8; Sp. p. 2184; Gaz. vol. 143; p. 365.  
 Pump for deep wells. F. W. Krogh. No. 927,057; July 6; Sp. p. 754; Gaz. vol. 144; p. 119.  
 Pump for drawing and measuring liquids. H. L. Darwood. No. 928,031; July 13; Sp. p. 2760; Gaz. vol. 144; p. 471.  
 Pump for electrolytic cells, Circulating-. C. F. Carrier, Jr. No. 908,546; Jan. 5; Sp. p. 2339; Gaz. vol. 138; p. 40.  
 Pump for exhaust-steam and feed-water. W. T. Harris. No. 916,309; Mar. 23; Sp. p. 3569; Gaz. vol. 140; p. 953.  
 Pump for soap-dispensers. S. Lippstadt. No. 928,139; July 13; Sp. p. 2959; Gaz. vol. 144; p. 506.  
 Pump for wells. W. H. Larkin. No. 938,878; Nov. 2; Sp. p. 930; Gaz. vol. 148; p. 147.  
 Pump, Fuel-. N. McCarty. No. 929,102; July 27; Sp. p. 4962; Gaz. vol. 144; p. 884.  
 Pump, Fuel-. N. McCarty. No. 929,970; Aug. 3; Sp. p. 732; Gaz. vol. 145; p. 117.  
 Pump, Governed. N. McCarty. No. 929,000; July 27; Sp. p. 4751; Gaz. vol. 144; p. 851.  
 Pump, Governed. N. McCarty. No. 929,100; July 27; Sp. p. 4953; Gaz. vol. 144; p. 883.  
 Pump, Governed. N. McCarty. No. 929,101; July 27; Sp. p. 4961; Gaz. vol. 144; p. 883.  
 Pump, Governed. N. McCarty. No. 943,095; Dec. 14; Sp. p. 2311; Gaz. vol. 149; p. 392.  
 Pump, Governed. N. McCarty. No. 943,987; Dec. 21; Sp. p. 4210; Gaz. vol. 149; p. 726.  
 Pump-governor. J. F. Senter. No. 913,650; Feb. 23; Sp. p. 5454; Gaz. vol. 139; p. 960.  
 Pump-governor. R. Conrader. No. 937,228; Oct. 19; Sp. p. 3387; Gaz. vol. 147; p. 588.  
 Pump-governor, Automatic steam-. C. P. McMullen. No. 924,097; June 8; Sp. p. 2147; Gaz. vol. 143; p. 359.  
 Pump-head. H. F. Story. No. 912,984; Feb. 16; Sp. p. 4048; Gaz. vol. 139; p. 710.  
 Pump, Hydraulic. J. W. Nelson. No. 909,647; Jan. 12; Sp. p. 2445; Gaz. vol. 138; p. 434.  
 Pump, Hydraulic. A. J. Pocock. No. 940,056; Nov. 16; Sp. p. 3567; Gaz. vol. 148; p. 610.  
 Pump, Hydraulic air-. P. Lewis. No. 923,053; May 25; Sp. p. 6096; Gaz. vol. 142; p. 1059.  
 Pump, Hydraulic rotary. I. H. Spencer. No. 917,971; Apr. 13; Sp. p. 2039; Gaz. vol. 141; p. 370.  
 Pump-jack. E. B. Zook. No. 931,831; Aug. 24; Sp. p. 4671; Gaz. vol. 145; p. 809.  
 Pump, Lubricating-. F. Stähli. No. 909,471; Jan. 12; Sp. p. 2097; Gaz. vol. 138; p. 373.  
 Pump, Lubricator-. G. J. and J. J. Arends. No. 927,923; July 13; Sp. p. 2556; Gaz. vol. 144; p. 435.  
 Pump, Measuring-. H. J. Wichman. No. 937,198; Oct. 19; Sp. p. 3322; Gaz. vol. 147; p. 578.  
 Pump, Mechanical mercury-sealed vacuum-. M. von Recklinghausen. No. 911,610; Feb. 9; Sp. p. 1144; Gaz. vol. 139; p. 221.  
 Pump mechanism. M. B. Van Ness. No. 915,253; Mar. 16; Sp. p. 3311; Gaz. vol. 140; p. 578.  
 Pump mechanism. M. B. Van Ness. No. 942,297; Dec. 7; Sp. p. 573; Gaz. vol. 149; p. 91.  
 Pump-meter. C. L. Duenkel. No. 937,516; Oct. 19; Sp. p. 4024; Gaz. vol. 147; p. 683.  
 Pump, Milk-. E. Lindblad. No. 916,732; Mar. 30; Sp. p. 6225; Gaz. vol. 140; p. 1114.  
 Pump, Milk-. C. O. Lucas. No. 940,651; Nov. 16; Sp. p. 4884; Gaz. vol. 148; p. 813.  
 Pump, Motor-. H. M. Cramer. No. 913,701; Mar. 2; Sp. p. 48; Gaz. vol. 140; p. 10.  
 Pump, Multiple-impeller. A. E. Guy. No. 912,954; Feb. 16; Sp. p. 3979; Gaz. vol. 139; p. 700.  
 Pump, Multiple-impeller. A. E. Guy. No. 940,871; Nov. 23; Sp. p. 5378; Gaz. vol. 148; p. 911.  
 Pump non-freezing attachment. S. B. Bower. No. 916,663; Mar. 30; Sp. p. 6103; Gaz. vol. 140; p. 1094.  
 Pump, Oil-. A. B. Loney. No. 915,453; Mar. 16; Sp. p. 3705; Gaz. vol. 140; p. 645.  
 Pump, Oil-well. F. Morgenstern. No. 918,460; Apr. 13; Sp. p. 3036; Gaz. vol. 141; p. 533.  
 Pump, Oil-well. W. R. Ritchie and T. N. Kellett. No. 925,510; June 22; Sp. p. 5063; Gaz. vol. 143; p. 891.  
 Pump-operating mechanism. W. F. Sigel. No. 919,784; Apr. 27; Sp. p. 6038; Gaz. vol. 141; p. 1038.  
 Pump-operating mechanism. H. C. Longenecker and J. C. Protzman. No. 927,365; July 6; Sp. p. 1324; Gaz. vol. 144; p. 220.  
 Pump or apparatus for raising water by means of compressed air, Pneumatic. T. O. Perry. No. 933,200; Sept. 7; Sp. p. 366; Gaz. vol. 146; p. 58.

*Alphabetical list of inventions—Continued.*

- Pump or apparatus for raising water by means of compressed air, Pneumatic. T. O. Perry. No. 939,307; Nov. 9; Sp. p. 1897; Gaz. vol. 148; p. 323.
- Pump or blower, Centrifugal. C. C. Harder. No. 929,129; July 27; Sp. p. 5028; Gaz. vol. 144; p. 894.
- Pump or blower, Rotary. E. Eickhoff. No. 928,034; July 13; Sp. p. 2766; Gaz. vol. 144; p. 472.
- Pump or compressor, Air. C. O. Sobinski. No. 919,484; Apr. 27; Sp. p. 5434; Gaz. vol. 141; p. 936.
- Pump or compressor and the like, Air and gas. W. Scheurmann. No. 933,346; Sept. 7; Sp. p. 705; Gaz. vol. 146; p. 110.
- Pump or condenser, Air. H. Keller. No. 922,595; May 25; Sp. p. 5144; Gaz. vol. 142; p. 912.
- Pump or motor, Rotary. H. A. Poppenhusen and J. Harrington. No. 918,906; Apr. 20; Sp. p. 4060; Gaz. vol. 141; p. 712.
- Pump-packing, Liquid. J. V. O. Palm. No. 912,321; Feb. 16; Sp. p. 2679; Gaz. vol. 139; p. 490.
- Pump, Piston. H. P. Wedin. No. 931,535; Aug. 17; Sp. p. 4014; Gaz. vol. 145; p. 692.
- Pump-piston. A. A. Bowser. No. 932,371; Aug. 24; Sp. p. 5785; Gaz. vol. 145; p. 988.
- Pump-piston expanding device. S. Gautsche. No. 919,845; Apr. 27; Sp. p. 6198; Gaz. vol. 141; p. 1058.
- Pump piston, Water-. E. O. Frisk. No. 912,460; Feb. 16; Sp. p. 2964; Gaz. vol. 139; p. 537.
- Pump, Pneumatic suction-. D. T. Williams. No. 921,040; May 11; Sp. p. 1919; Gaz. vol. 142; p. 340.
- Pump, Power-. W. H. Rayner. No. 936,359; Oct. 12; Sp. p. 1570; Gaz. vol. 147; p. 269.
- Pump pressure-controlling device, Hydraulic-. J. W. Nelson. No. 914,167; Mar. 2; Sp. p. 1089; Gaz. vol. 140; p. 172.
- Pump pressure-controlling means, Hydraulic-. J. W. Nelson. No. 914,164; Mar. 2; Sp. p. 1079; Gaz. vol. 140; p. 171.
- Pump, Reciprocating hydraulic. R. Wood. No. 923,748; June 1; Sp. p. 1384; Gaz. vol. 143; p. 216.
- Pump relief mechanism, Compound-. H. H. Westinghouse. No. 917,216; Apr. 6; Sp. p. 522; Gaz. vol. 141; p. 91.
- Pump-rod coupling. C. L. Kenyon. No. 943,080; Dec. 14; Sp. p. 2283; Gaz. vol. 149; p. 387.
- Pump-rod-pulling device. J. C. Martin. No. 935,764; Oct. 5; Sp. p. 312; Gaz. vol. 147; p. 45.
- Pump, Rotary. M. Mortensen. No. 919,058; Apr. 20; Sp. p. 4355; Gaz. vol. 141; p. 760.
- Pump, Rotary. E. U. Combs. No. 932,446; Aug. 31; Sp. p. 5942; Gaz. vol. 145; p. 1036.
- Pump, Rotary. A. E. Tripp. No. 934,859; Sept. 21; Sp. p. 3787; Gaz. vol. 146; p. 657.
- Pump, Rotary. C. W. Vollmann. No. 944,708; Dec. 28; Sp. p. 5768; Gaz. vol. 149; p. 998.
- Pump, Rotary air and gas. L. H. Rogers. No. 944,912; Dec. 28; Sp. p. 6206; Gaz. vol. 149; p. 1068.
- Pump, Rotary air or gas. L. H. Rogers. No. 944,913; Dec. 28; Sp. p. 6211; Gaz. vol. 149; p. 1068.
- Pump, Rotary impelling-. C. W. Landrum and G. W. Wright. No. 929,230; July 27; Sp. p. 5232; Gaz. vol. 144; p. 927.
- Pump, Rotary mercury vacuum-. W. Gaede. No. 921,535; May 11; Sp. p. 2953; Gaz. vol. 142; p. 508.
- Pump, Self-adjusting oil-. E. J. Lees. No. 917,466; Apr. 6; Sp. p. 1005; Gaz. vol. 141; p. 175.
- Pump, Self-measuring oil-. F. J. Young. No. 924,715; June 15; Sp. p. 3486; Gaz. vol. 143; p. 599.
- Pump, Siphon-. W. L. Richards. No. 919,079; Apr. 20; Sp. p. 4390; Gaz. vol. 141; p. 767.
- Pump, Spout. J. O. Hutchison. No. 919,870; Apr. 27; Sp. p. 6255; Gaz. vol. 141; p. 1066.
- Pump spout, Whey-. A. M. Steinwand. No. 925,242; June 15; Sp. p. 4550; Gaz. vol. 143; p. 777.
- Pump, Steam-. B. O. Gage. No. 914,037; Mar. 2; Sp. p. 833; Gaz. vol. 140; p. 128.
- Pump, Steam-. T. R. Brown. No. 924,140; June 8; Sp. p. 2255; Gaz. vol. 143; p. 373.
- Pump, Steam-. H. L. Thompson. No. 938,724; Nov. 2; Sp. p. 596; Gaz. vol. 148; p. 94.
- Pump, Steam and vacuum. R. E. Cecil and C. R. Wassell. No. 943,911; Dec. 21; Sp. p. 4042; Gaz. vol. 149; p. 701.
- Pump, Steam and vacuum. R. E. Cecil and C. R. Wassell. No. 943,912; Dec. 21; Sp. p. 4046; Gaz. vol. 149; p. 701.
- Pump, Steam vacuum-. W. R. Emerson. No. 921,967; May 18; Sp. p. 3869; Gaz. vol. 142; p. 677.
- Pump, Steam vacuum-. G. E. Nye. No. 944,984; Dec. 28; Sp. p. 6353; Gaz. vol. 149; p. 1090.
- Pump-strainer. W. S. Dunstedter. No. 911,959; Feb. 9; Sp. p. 1908; Gaz. vol. 139; p. 336.
- Pump, Vacuum-. C. L. Heisler. No. 909,183; Jan. 12; Sp. p. 1552; Gaz. vol. 138; p. 280.
- Pump, Vacuum-. J. T. Wilkin. No. 924,024; June 8; Sp. p. 2028; Gaz. vol. 143; p. 336.
- Pump, Vacuum-. J. L. Sparks and E. R. Eddins. No. 929,799; Aug. 3; Sp. p. 355; Gaz. vol. 145; p. 60.
- Pump, Vacuum-. G. E. Nye. No. 932,166; Aug. 24; Sp. p. 5397; Gaz. vol. 145; p. 921.
- Pump, Vacuum-. G. H. Zschech. No. 940,913; Nov. 23; Sp. p. 5458; Gaz. vol. 148; p. 925.
- Pump, Vacuum-. T. W. Lowden. No. 943,556; Dec. 14; Sp. p. 3260; Gaz. vol. 149; p. 549.
- Pump, Vacuum-. F. A. Simonds. No. 943,848; Dec. 21; Sp. p. 3904; Gaz. vol. 149; p. 679.
- Pump-valve. J. Greer. No. 908,562; Jan. 5; Sp. p. 274; Gaz. vol. 138; p. 46.
- Pump, Valve-. J. E. Hill. No. 918,448; Apr. 13; Sp. p. 3011; Gaz. vol. 141; p. 529.
- Pump, Valve-. W. G. Black. No. 936,233; Oct. 5; Sp. p. 1305; Gaz. vol. 147; p. 200.
- Pump valve mechanism, Hot-water-. C. Caille. No. 930,646; Aug. 10; Sp. p. 2107; Gaz. vol. 145; p. 368.
- Pump, Water-circulating. W. K. Andrew. No. 933,045; Sept. 7; Sp. p. 3; Gaz. vol. 146; p. 3.
- Pump, Water-motor. B. Pickering. No. 928,215; July 13; Sp. p. 3126; Gaz. vol. 144; p. 532.
- Pump, Well-. W. A. McGregor. No. 940,545; Nov. 16; Sp. p. 4675; Gaz. vol. 148; p. 778.
- Pump, Working-head, Power-. P. A. Myers. No. 930,405; Aug. 10; Sp. p. 1578; Gaz. vol. 145; p. 285.
- Pump working-head, Power-. P. A. Myers. No. 930,981; Aug. 10; Sp. p. 2819; Gaz. vol. 145; p. 476.
- Pumps and blowers, Casing for centrifugal. H. Holzer. No. 944,864; Dec. 28; Sp. p. 6121; Gaz. vol. 149; p. 1051.
- Pumps, Automatic air-trap for. C. S. Axford. No. 925,859; June 22; Sp. p. 5818; Gaz. vol. 143; p. 1007.
- Pumps, Automatic device for controlling the operation of. W. F. Otto. No. 943,369; Dec. 14; Sp. p. 2874; Gaz. vol. 149; p. 484.
- Pumps, blowers, and the like, Balancing device for centrifugal and similar. W. Scheurmann. No. 933,345; Sept. 7; Sp. p. 704; Gaz. vol. 146; p. 109.
- Pumps, Cushioning member for. G. C. Werner. No. 929,263; July 27; Sp. p. 5304; Gaz. vol. 144; p. 938.
- Pumps, Cut-off valve for centrifugal. S. V. Trent. No. 921,916; May 18; Sp. p. 3756; Gaz. vol. 142; p. 661.
- Pumps, Device for cleansing cylinders and pistons of dust-aspirating. M. Falk. No. 936,105; Oct. 5; Sp. p. 1063; Gaz. vol. 147; p. 162.
- Pumps, Measuring device for fluid-. W. J. Bussinger. No. 910,458; Jan. 19; Sp. p. 4141; Gaz. vol. 138; p. 742.
- Pumps, Operating mechanism for double-acting. C. F. Preslar. No. 943,201; Dec. 14; Sp. p. 2513; Gaz. vol. 149; p. 426.
- Pumps, Overflow trap for lift and force. E. Noppel. No. 927,003; July 6; Sp. p. 618; Gaz. vol. 144; p. 101.
- Pumps, Shaft-mounting for rotary. M. A. Mills. No. 934,084; Sept. 14; Sp. p. 2278; Gaz. vol. 146; p. 874.
- Pumps, Working-head for power-. P. A. Myers. No. 928,234; July 13; Sp. p. 3161; Gaz. vol. 144; p. 539.
- Pumping apparatus. S. W. Edmiston. No. 910,800; Jan. 26; Sp. p. 4858; Gaz. vol. 138; p. 877.
- Pumping apparatus, Portable pneumatic. J. W. Smith. No. 921,632; May 11; Sp. p. 3164; Gaz. vol. 142; p. 541.
- Pumping-engine, Direct-acting. J. Hutchings. No. 934,312; Sept. 14; Sp. p. 2717; Gaz. vol. 146; p. 451.
- Pumping-engine, Steam. M. W. Hibbard. No. 938,146; Oct. 26; Sp. p. 5325; Gaz. vol. 147; p. 911.
- Pumping fluids, Method of and apparatus for. O. C. Goerz. No. 933,247; Sept. 7; Sp. p. 503; Gaz. vol. 146; p. 77.
- Pumping mechanism, Well-. J. T. Callanan. No. 919,318; Apr. 27; Sp. p. 5062; Gaz. vol. 141; p. 879.
- Pumping mechanism, Hydraulically-operated. C. Beale and D. F. Moore. No. 932,240; Aug. 24; Sp. p. 5547; Gaz. vol. 145; p. 945.
- Pumping mechanisms, Flexible connection for. W. A. Paine. No. 929,164; July 27; Sp. p. 5100; Gaz. vol. 144; p. 906.
- Pumping oil from petroleum-wells, Apparatus for. K. E. Ehrmann. No. 919,142; Apr. 20; Sp. p. 4510; Gaz. vol. 141; p. 788.
- Pumping or forcing mechanism, Air. H. Harsant. No. 941,450; Nov. 30; Sp. p. 6637; Gaz. vol. 148; p. 1125.
- Pumping plant, Sand-. M. Swintek. No. 921,910; May 18; Sp. p. 3748; Gaz. vol. 142; p. 659.
- Pumping power. F. M. Lee. No. 912,475; Feb. 16; Sp. p. 2991; Gaz. vol. 139; p. 541.
- Pumping system, Automatic. J. Hanson. No. 940,312; Nov. 16; Sp. p. 4145; Gaz. vol. 148; p. 699.
- Pumping system for hydrostatic apparatus. J. H. Clark. No. 920,825; May 4; Sp. p. 1482; Gaz. vol. 142; p. 239.
- Pumping valve mechanism. E. A. Stubler. No. 919,792; Apr. 27; Sp. p. 6050; Gaz. vol. 141; p. 1040.
- Punch. H. Denburger. No. 909,285; Jan. 12; Sp. p. 1743; Gaz. vol. 138; p. 313.
- Punch. J. C. Smith. No. 933,397; Sept. 7; Sp. p. 817; Gaz. vol. 146; p. 127.
- Punch. S. A. Lesan. No. 934,194; Sept. 14; Sp. p. 2502; Gaz. vol. 146; p. 412.
- Punch. F. Harling. No. 938,580; Nov. 2; Sp. p. 321; Gaz. vol. 148; p. 47.
- Punch and shear. C. Peterson. No. 942,409; Dec. 7; Sp. p. 788; Gaz. vol. 149; p. 128.
- Punch, Can-. W. P. Armstrong. No. 919,675; Apr. 27; Sp. p. 5834; Gaz. vol. 141; p. 1001.
- Punch, Center-. G. M. Ainsworth. No. 913,677; Mar. 2; Sp. p. 1; Gaz. vol. 140; p. 3.
- Punch, Check-. G. Sittmann. No. 924,112; June 8; Sp. p. 2177; Gaz. vol. 143; p. 363.
- Punch-cutting and like machines, Blank-holder for. F. H. Pierpont. No. 938,435; Oct. 26; Sp. p. 5965; Gaz. vol. 147; p. 1011.
- Punch-cutting and like machines, Cutter-head mechanism for. F. H. Pierpont. No. 938,433; Oct. 26; Sp. p. 5957; Gaz. vol. 147; p. 1010.
- Punch-cutting and matrix-cutting machine. F. H. Pierpont. No. 938,074; Oct. 26; Sp. p. 5164; Gaz. vol. 147; p. 887.
- Punch-cutting machines, Cutter for. F. H. Pierpont. No. 938,434; Oct. 26; Sp. p. 5963; Gaz. vol. 147; p. 1011.
- Punch, Electromagnetic. J. E. Leidigh. No. 917,955; Apr. 13; Sp. p. 1998; Gaz. vol. 141; p. 364.
- Punch gear mechanism. C. E. Macbeth and F. C. Stiening. No. 931,781; Aug. 24; Sp. p. 4577; Gaz. vol. 145; p. 793.
- Punch, Loose. C. H. Clark. No. 915,659; Mar. 16; Sp. p. 4150; Gaz. vol. 140; p. 716.
- Punch, Metal-. W. C. Robinson. No. 939,324; Nov. 9; Sp. p. 1929; Gaz. vol. 148; p. 329.



*Alphabetical list of inventions—Continued.*

- Punch, nail-set, &c., Center-. F. W. Bacho and P. E. Draughon. No. 925,978; June 22; Sp. p. 6047; Gaz. vol. 143; p. 1045.
- Punch-presses, Table for. F. Thompson. No. 936,832; Oct. 12; Sp. p. 2565; Gaz. vol. 147; p. 429.
- Punch, Rivet-. C. L. Bean. No. 922,660; May 25; Sp. p. 5279; Gaz. vol. 142; p. 933.
- Punch, Spiral. H. C. Roberts. No. 921,463; May 11; Sp. p. 2814; Gaz. vol. 142; p. 484.
- Punch, Steel-. T. G. Owens. No. 917,739; Apr. 6; Sp. p. 1511; Gaz. vol. 141; p. 265.
- Punch, Ticket-. F. Angerstein. No. 930,117; Aug. 3; Sp. p. 1048; Gaz. vol. 145; p. 168.
- Punching and eyeletting machine. M. H. Pearson. No. 918,694; Apr. 20; Sp. p. 3615; Gaz. vol. 141; p. 641.
- Punching and riveting machine. J. R. French. No. 918,842; Apr. 20; Sp. p. 3913; Gaz. vol. 141; p. 689.
- Punching and riveting machine. J. R. French. No. 923,350; June 1; Sp. p. 560; Gaz. vol. 143; p. 80.
- Punching and shearing machine. F. W. Miller. No. 926,954; July 6; Sp. p. 519; Gaz. vol. 144; p. 84.
- Punching and shearing machine, Combined. H. N. Kluting. No. 925,348; June 15; Sp. p. 4737; Gaz. vol. 143; p. 808.
- Punching and spacing machine. M. M. Beasley. No. 937,279; Oct. 19; Sp. p. 3500; Gaz. vol. 147; p. 605.
- Punching-bag. S. H. Selfe. No. 923,379; June 1; Sp. p. 610; Gaz. vol. 143; p. 90.
- Punching-bag. S. W. Johnson. No. 925,342; June 15; Sp. p. 4719; Gaz. vol. 143; p. 806.
- Punching holes in metal plates, Machine for. C. H. Clark. No. 939,185; Nov. 2; Sp. p. 1573; Gaz. vol. 148; p. 255.
- Punching machine. G. P. Thomas. No. 908,817; Jan. 5; Sp. p. 800; Gaz. vol. 138; p. 126.
- Punching-machine. A. Holmgren. No. 910,063; Jan. 19; Sp. p. 3283; Gaz. vol. 138; p. 605.
- Punching-machine. F. McIntyre and J. W. Rogers. No. 923,198; June 1; Sp. p. 161; Gaz. vol. 143; p. 27.
- Punching-machine. E. O. C. Kuhnel. No. 930,867; Aug. 10; Sp. p. 2554; Gaz. vol. 145; p. 440.
- Punching-machine. W. B. Kilgore. No. 931,431; Aug. 17; Sp. p. 3827; Gaz. vol. 145; p. 660.
- Punching-machine. J. H. Heald, Jr. No. 933,560; Sept. 7; Sp. p. 1229; Gaz. vol. 146; p. 180.
- Punching-machine. W. B. Kilgore. No. 934,672; Sept. 21; Sp. p. 3416; Gaz. vol. 146; p. 596.
- Punching-machine. J. L. Bernard. No. 938,453; Oct. 26; Sp. p. 6027; Gaz. vol. 147; p. 1017.
- Punching-machine. E. Bambauer. No. 940,575; Nov. 16; Sp. p. 4732; Gaz. vol. 148; p. 788.
- Punching-machine, Hand. H. Siegrist. No. 942,291; Dec. 7; Sp. p. 563; Gaz. vol. 149; p. 89.
- Punching-machine, Multiple. C. E. Macbeth. No. 942,272; Dec. 7; Sp. p. 517; Gaz. vol. 149; p. 81.
- Punching-machine, Rotary. F. Koelsch. No. 939,958; Nov. 9; Sp. p. 3316; Gaz. vol. 148; p. 547.
- Punching or shearing machine. C. A. Bertsch, H. Schelhammer, and L. H. Bertsch. No. 921,068; May 11; Sp. p. 1991; Gaz. vol. 142; p. 351.
- Punching, perforating, or stamping implement. E. W. Thurgar. No. 934,635; Sept. 21; Sp. p. 3356; Gaz. vol. 146; p. 584.
- Punching-press dividing-table. T. Poljakoff-Kowtunoff. No. 926,601; June 29; Sp. p. 7290; Gaz. vol. 143; p. 1286.
- Punctographic writing, Apparatus for embossing. W. B. Wait. No. 910,330; Jan. 19; Sp. p. 3882; Gaz. vol. 138; p. 698.
- Purifier attachment, Middlings-. D. Deneen. No. 912,649; Feb. 16; Sp. p. 3352; Gaz. vol. 139; p. 602.
- Purifying materials, Recovering. H. Hirzel. No. 913,500; Feb. 23; Sp. p. 5097; Gaz. vol. 139; p. 910.
- Purse. C. Eninger. No. 912,451; Feb. 16; Sp. p. 2943; Gaz. vol. 139; p. 534.
- Purse. J. M. Sundean. No. 926,908; July 6; Sp. p. 426; Gaz. vol. 144; p. 68.
- Purse. E. Olund. No. 933,261; Sept. 7; Sp. p. 529; Gaz. vol. 146; p. 81.
- Purse or bag frame. C. Hiering and A. Fuller. No. 939,255; Nov. 9; Sp. p. 1744; Gaz. vol. 148; p. 303.
- Purse or bag frame lock. B. vom Eigen. No. 911,386; Feb. 2; Sp. p. 705; Gaz. vol. 139; p. 121.
- Push-button apparatus. R. D. Burk. No. 931,380; Aug. 17; Sp. p. 3725; Gaz. vol. 145; p. 643.
- Push-button switch. F. E. Seelye. No. 936,175; Oct. 5; Sp. p. 1208; Gaz. vol. 147; p. 183.
- Push-cart. J. Z. Benedict. No. 934,132; Sept. 14; Sp. p. 2386; Gaz. vol. 146; p. 391.
- Push-cart. H. A. Veling. No. 934,244; Sept. 14; Sp. p. 2591; Gaz. vol. 146; p. 429.
- Push or buck rake. W. E. and F. E. Van Horn. No. 936,197; Oct. 5; Sp. p. 1244; Gaz. vol. 147; p. 188.
- Push-piece device on watch-crowns. C. Duchesne. No. 915,571; Mar. 16; Sp. p. 3950; Gaz. vol. 140; p. 682.
- Putting-out machine. F. J. Perkins. No. 926,825; July 6; Sp. p. 249; Gaz. vol. 144; p. 40.
- Putting-out machine. F. J. Perkins. No. 931,340; Aug. 17; Sp. p. 3643; Gaz. vol. 145; p. 628.
- Putty-knife. W. A. Prout. No. 912,028; Feb. 9; Sp. p. 2056; Gaz. vol. 139; p. 358.
- Putty-knife. A. J. Compton. No. 929,194; July 27; Sp. p. 5165; Gaz. vol. 144; p. 916.
- Putty-knife, Automatic. J. H. Johnson. No. 924,469; June 8; Sp. p. 2954; Gaz. vol. 143; p. 483.
- Puzzle. H. F. Trout. No. 911,461; Feb. 2; Sp. p. 832; Gaz. vol. 139; p. 146.
- Puzzle. W. D. Taylor. No. 913,582; Feb. 23; Sp. p. 5299; Gaz. vol. 139; p. 938.
- Puzzle. E. F. Carney. No. 920,727; May 4; Sp. p. 1299; Gaz. vol. 142; p. 209.
- Puzzle. L. C. Koehler and W. M. Butler. No. 922,002; May 18; Sp. p. 3945; Gaz. vol. 142; p. 690.
- Puzzle. A. R. Foss. No. 922,874; May 25; Sp. p. 5750; Gaz. vol. 142; p. 1002.
- Puzzle. A. B. and R. F. Carty. No. 925,752; June 22; Sp. p. 5563; Gaz. vol. 143; p. 970.
- Puzzle. O. H. Rawitch. No. 928,540; July 20; Sp. p. 3823; Gaz. vol. 144; p. 670.
- Puzzle. A. J. Zschokke. No. 928,833; July 20; Sp. p. 4406; Gaz. vol. 144; p. 768.
- Puzzle. H. W. Cadwell. No. 931,677; Aug. 17; Sp. p. 4304; Gaz. vol. 145; p. 735.
- Puzzle. E. J. Levine. No. 932,147; Aug. 24; Sp. p. 5364; Gaz. vol. 145; p. 914.
- Puzzle. R. D. Clover. No. 932,845; Aug. 31; Sp. p. 6805; Gaz. vol. 145; p. 1167.
- Puzzle. J. M. McCauley. No. 934,203; Sept. 14; Sp. p. 2515; Gaz. vol. 146; p. 414.
- Puzzle. R. W. McMichael. No. 937,166; Oct. 19; Sp. p. 3264; Gaz. vol. 147; p. 568.
- Puzzle. L. W. Pullen. No. 938,509; Nov. 2; Sp. p. 139; Gaz. vol. 148; p. 22.
- Puzzle. G. B. Matthews. No. 939,050; Nov. 2; Sp. p. 1287; Gaz. vol. 148; p. 207.
- Puzzle. A. Schenack. No. 939,552; Nov. 9; Sp. p. 2440; Gaz. vol. 148; p. 405.
- Puzzle. W. F. Bartsch. No. 942,536; Dec. 7; Sp. p. 1065; Gaz. vol. 149; p. 173.
- Puzzle. J. F. Collins. No. 943,390; Dec. 14; Sp. p. 2915; Gaz. vol. 149; p. 491.
- Puzzle. A. Weigt. No. 943,496; Dec. 14; Sp. p. 3137; Gaz. vol. 149; p. 529.
- Puzzle. A. Garland. No. 944,130; Dec. 21; Sp. p. 4516; Gaz. vol. 149; p. 775.
- Puzzle apparatus. E. C. S. Parker. No. 923,372; June 1; Sp. p. 598; Gaz. vol. 143; p. 87.
- Puzzle, Base-ball. T. Mooney. No. 939,612; Nov. 9; Sp. p. 2584; Gaz. vol. 148; p. 424.
- Puzzle-box. B. Guerry. No. 933,432; Sept. 7; Sp. p. 882; Gaz. vol. 146; p. 138.
- Puzzle for the blind, Raised. M. A. Houghton. No. 941,680; Nov. 30; Sp. p. 7099; Gaz. vol. 148; p. 1200.
- Puzzle or toy. H. D. Bullard. No. 913,689; Mar. 2; Sp. p. 18; Gaz. vol. 140; p. 6.
- Puzzle postal card. N. Olinger. No. 939,074; Nov. 2; Sp. p. 1329; Gaz. vol. 148; p. 216.
- Puzzles, Mechanism for cutting sheet-. H. C. Harris. No. 928,969; July 27; Sp. p. 4685; Gaz. vol. 144; p. 841.
- Pyrazolone derivative and salts thereof. E. Scheitlin. No. 930,091; Aug. 3; Sp. p. 990; Gaz. vol. 145; p. 160.
- Pyrazolone derivative and salts thereof. E. Scheitlin. No. 930,092; Aug. 3; Sp. p. 991; Gaz. vol. 145; p. 160.
- Pyro-electric generator. G. J. Vokel. No. 928,089; July 13; Sp. p. 2864; Gaz. vol. 144; p. 488.
- Pyrographic burner. C. U. Macy. No. 929,614; July 27; Sp. p. 6017; Gaz. vol. 144; p. 1053.
- Pyrographical device. E. H. E. Malmquist. No. 912,702; Feb. 16; Sp. p. 3482; Gaz. vol. 139; p. 621.
- Pyrographical tool. H. M. Holton. No. 936,720; Oct. 12; Sp. p. 2357; Gaz. vol. 147; p. 392.
- Pyrometer. C. B. Thwing. No. 919,399; Apr. 27; Sp. p. 5233; Gaz. vol. 141; p. 907.
- Pyrometer. C. E. Foster. No. 933,543; Sp. p. 1198; Gaz. vol. 146; p. 174.
- Pyrometer or heat-measuring device, Mechanical. J. L. Zander. No. 938,034; Oct. 26; Sp. p. 5074; Gaz. vol. 147; p. 873.
- Pyrometers and the like, Indicating and recording apparatus for. W. Armour. No. 921,500; May 11; Sp. p. 2887; Gaz. vol. 142; p. 497.
- Quadrant adjustment, Split-switch. J. L. Soutar. No. 939,561; Nov. 9; Sp. p. 2457; Gaz. vol. 148; p. 403.
- Quebracho extract, Treatment of. A. Redlich and J. Wladika. No. 939,742; Nov. 9; Sp. p. 2859; Gaz. vol. 148; p. 471.
- Quill substances, Machine for treating. W. Webster. No. 927,439; July 6; Sp. p. 1486; Gaz. vol. 144; p. 246.
- Quilling-machine. G. Adsit. No. 919,298; Apr. 27; Sp. p. 5027; Gaz. vol. 141; p. 873.
- Quilling-frame. L. A. Ashby. No. 909,357; Jan. 12; Sp. p. 1872; Gaz. vol. 138; p. 336.
- Quilling-frame. L. A. Smith. No. 925,046; June 15; Sp. p. 4183; Gaz. vol. 143; p. 712.
- Quilling-frame. C. E. and L. A. Ashby. No. 928,418; July 20; Sp. p. 3576; Gaz. vol. 144; p. 632.
- Quilling-frame. J. Culler. No. 937,578; Oct. 19; Sp. p. 4139; Gaz. vol. 147; p. 705.
- Quilling-frame. S. S. Russell. No. 940,070; Nov. 16; Sp. p. 3596; Gaz. vol. 148; p. 615.
- Quilling-frame. D. W. Phillips. No. 944,105; Dec. 21; Sp. p. 4444; Gaz. vol. 149; p. 766.
- Quoin. F. W. E. Brinckmann. No. 916,991; Apr. 6; Sp. p. 52; Gaz. vol. 141; p. 13.
- Quoin. M. Muehler. No. 939,950; Nov. 9; Sp. p. 3296; Gaz. vol. 148; p. 544.
- Quoin. E. J. Casey. No. 942,543; Dec. 7; Sp. p. 1079; Gaz. vol. 149; p. 175.
- Rabble-arm. C. H. Repath. No. 932,496; Aug. 31; Sp. p. 6067; Gaz. vol. 145; p. 1052.
- Rabble-arm and rake. H. N. Thomson and W. M. Kelly. No. 940,488; Nov. 16; Sp. p. 4537; Gaz. vol. 148; p. 759.
- Race-course. F. Kronenberger. No. 920,346; May 4; Sp. p. 519; Gaz. vol. 142; p. 83.

*Alphabetical list of inventions—Continued.*

- Race-course barrier and starting device. J. Pawolowski. No. 931,956; Aug. 24; Sp. p. 4962; Gaz. vol. 145; p. 850.
- Race-strap. L. B. Garrison. No. 939,902; Nov. 9; Sp. p. 3189; Gaz. vol. 148; p. 526.
- Rack. *See* Advertising hat-rack; Baggage-rack; Basket-rack; Bowl-holding rack; Brick-drying rack; Car-rack; Clothes-rack; Collapsible rack; Comb-rack; Combination-rack; Corn-rack; Corn-drying rack; Cup-holding rack; Display-rack; Feed-rack; Garment-rack; Hat, coat, and umbrella rack; Hay-rack; Hose-rack; Kitchen-rack; Linotype-magazine rack; Mail-rack; Meat-rack; Music-rack; Oar-rack; Oven-rack; Paper-rack; Photographic-film rack; Plating-rack; Post-card rack; Ribbon-rack; Rotary rack; Seed-corn rack; Shade and curtain rack; Show-rack; Stringed and wind instrument music-rack; Toast-rack; Tool-rack; Towel-rack; Trough-rack; Wagon-rack; Wall-rack; Wall-pocket rack; Wire-cloth rack; Wrench-rack.
- Rack. A. S. Walley. No. 921,926; May 18; Sp. p. 3776; Gaz. vol. 142; p. 663.
- Rack. W. M. Gilmore. No. 922,274; May 18; Sp. p. 4489; Gaz. vol. 142; p. 779.
- Rack. F. P. Shek. No. 924,386; June 8; Sp. p. 2814; Gaz. vol. 143; p. 457.
- Rack. L. Hunt. No. 928,659; July 20; Sp. p. 4074; Gaz. vol. 143; p. 710.
- Rack. A. S. Noonan. No. 930,410; Aug. 10; Sp. p. 1586; Gaz. vol. 145; p. 287.
- Rack. C. J. Hawkins. No. 938,854; Nov. 2; Sp. p. 861; Gaz. vol. 148; p. 139.
- Rack. G. H. McGregor and A. S. Rudland. No. 942,580; Dec. 7; Sp. p. 1147; Gaz. vol. 149; p. 186.
- Rack. J. Jepsen. No. 944,874; Dec. 28; Sp. p. 6136; Gaz. vol. 149; p. 1055.
- Rack and car, Combination. J. S. Wintermute. No. 918,109; Apr. 13; Sp. p. 2339; Gaz. vol. 141; p. 419.
- Rack and holder, Combined. O. M. Harding. No. 911,976; Feb. 9; Sp. p. 1948; Gaz. vol. 139; p. 342.
- Rack attachment, Hay-. A. L. Carlson. No. 913,693; Mar. 2; Sp. p. 27; Gaz. vol. 140; p. 7.
- Rack bracket, Hay-. A. L. Lucas. No. 913,744; Mar. 2; Sp. p. 143; Gaz. vol. 140; p. 24.
- Rack for rolls of merchandise. C. J. Simonson. No. 941,281; Nov. 23; Sp. p. 6265; Gaz. vol. 148; p. 1048.
- Rack guard, Veil-. M. D. Coey. No. 914,795; Mar. 9; Sp. p. 2400; Gaz. vol. 140; p. 403.
- Rack or holder. E. E. Hill and E. S. Gray. No. 935,507; Sept. 28; Sp. p. 5100; Gaz. vol. 146; p. 897.
- Rack-rail and traction locomotive. N. D. Levin. No. 909,430; Jan. 12; Sp. p. 2019; Gaz. vol. 138; p. 359.
- Radiator. A. Landon. No. 912,002; Feb. 9; Sp. p. 2002; Gaz. vol. 139; p. 350.
- Radiator. O. T. Brown. No. 912,067; Feb. 9; Sp. p. 2149; Gaz. vol. 139; p. 371.
- Radiator. M. E. Danforth. No. 914,929; Mar. 9; Sp. p. 2655; Gaz. vol. 140; p. 445.
- Radiator. A. C. Edgar. No. 917,423; Apr. 6; Sp. p. 932; Gaz. vol. 141; p. 162.
- Radiator. W. Andrews. No. 929,368; July 27; Sp. p. 5564; Gaz. vol. 144; p. 976.
- Radiator. F. A. Schlosser. No. 933,118; Sept. 7; Sp. p. 167; Gaz. vol. 146; p. 28.
- Radiator. S. D. Stauffer. No. 935,172; Sept. 28; Sp. p. 4424; Gaz. vol. 146; p. 788.
- Radiator. J. A. Miller. No. 937,380; Oct. 19; Sp. p. 3710; Gaz. vol. 147; p. 637.
- Radiator. W. J. Elder. No. 940,445; Nov. 16; Sp. p. 4456; Gaz. vol. 148; p. 745.
- Radiator. S. Lavine. No. 943,689; Dec. 21; Sp. p. 3578; Gaz. vol. 149; p. 623.
- Radiator. L. Loziano. No. 944,450; Dec. 28; Sp. p. 5188; Gaz. vol. 149; p. 910.
- Radiator attachment. E. J. Glackin. No. 928,255; July 20; Sp. p. 3247; Gaz. vol. 144; p. 576.
- Radiator-carrier. A. F. Buell. No. 908,740; Jan. 5; Sp. p. 664; Gaz. vol. 138; p. 103.
- Radiator-casing. A. L. Schellhammer. No. 920,665; May 4; Sp. p. 1166; Gaz. vol. 142; p. 188.
- Radiator-cover. G. E. Larsen and A. K. Johnson. No. 923,668; June 1; Sp. p. 1228; Gaz. vol. 143; p. 190.
- Radiator-fins, Holder for. J. D. Beebe. No. 925,446; June 22; Sp. p. 4938; Gaz. vol. 143; p. 872.
- Radiator fitting, Steam-. J. J. Wilson. No. 933,869; Sept. 14; Sp. p. 1850; Gaz. vol. 146; p. 306.
- Radiator foot-rest. G. W. Gage, Sr. No. 911,488; Feb. 2; Sp. p. 872; Gaz. vol. 139; p. 154.
- Radiator, Jacket-. W. R. Kloebe. No. 921,259; May 11; Sp. p. 2379; Gaz. vol. 142; p. 417.
- Radiator-nipple. J. A. Field. No. 908,985; Jan. 5; Sp. p. 1148; Gaz. vol. 138; p. 182.
- Radiator, Press-. F. E. Voorheis. No. 937,397; Oct. 19; Sp. p. 3755; Gaz. vol. 147; p. 643.
- Radiator, Steam-. R. Warg. No. 916,640; Mar. 30; Sp. p. 6063; Gaz. vol. 140; p. 1087.
- Radiator, Steam-. R. Warg. No. 916,641; Mar. 30; Sp. p. 6064; Gaz. vol. 140; p. 1087.
- Radiator, Steam or hot-water. W. Kane. No. 933,371; Sept. 7; Sp. p. 765; Gaz. vol. 146; p. 120.
- Radiators, Automatic control of heat from. J. B. McKeown. No. 908,797; Jan. 5; Sp. p. 761; Gaz. vol. 138; p. 120.
- Radiators, Portable press for assembling. G. H. Ray. No. 909,934; Jan. 19; Sp. p. 3037; Gaz. vol. 138; p. 562.
- Radiators, Pressing device for push-nipple. H. L. E. Peterson. No. 942,410; Dec. 7; Sp. p. 790; Gaz. vol. 149; p. 128.
- Radio-active bodies from uranium or thorium, &c., Obtaining. A. P. H. Trivelli. No. 917,191; Apr. 6; Sp. p. 468; Gaz. vol. 141; p. 82.
- Radium compound and making same. J. Reitz. No. 920,881; May 4; Sp. p. 1615; Gaz. vol. 142; p. 257.
- Radius-averaging instrument. W. H. Bristol. No. 938,962; Nov. 2; Sp. p. 1114; Gaz. vol. 148; p. 178.
- Radius-rod shifting means, Joint for. O. W. Young. No. 940,224; Nov. 16; Sp. p. 3939; Gaz. vol. 148; p. 670.
- Rafter-marking instrument. J. L. Richter. No. 940,067; Nov. 16; Sp. p. 3591; Gaz. vol. 148; p. 614.
- Rafting system, Log-. N. C. Elfer. No. 935,476; Sept. 28; Sp. p. 5015; Gaz. vol. 146; p. 886.
- Rail. G. B. M. Erwin. No. 914,648; Mar. 9; Sp. p. 2073; Gaz. vol. 140; p. 353.
- Rail. W. J. Lackie. No. 920,758; May 4; Sp. p. 1339; Gaz. vol. 142; p. 218.
- Rail. G. Flessa. No. 929,929; Aug. 3; Sp. p. 652; Gaz. vol. 145; p. 103.
- Rail. J. Keeton. No. 935,310; Sept. 28; Sp. p. 4691; Gaz. vol. 146; p. 833.
- Rail. P. Peterson. No. 937,643; Oct. 19; Sp. p. 4255; Gaz. vol. 147; p. 726.
- Rail. N. Rendleman. No. 939,319; Nov. 9; Sp. p. 1920; Gaz. vol. 148; p. 327.
- Rail-anchor. J. M. Scott. No. 909,692; Jan. 12; Sp. p. 2538; Gaz. vol. 138; p. 450.
- Rail anchorage, Third-. W. B. Potter. No. 909,335; Jan. 12; Sp. p. 1840; Gaz. vol. 138; p. 330.
- Rail-anchoring device. T. A. Waichel. No. 921,929; May 18; Sp. p. 3780; Gaz. vol. 142; p. 665.
- Rail and beam tie. A. R. McDade. No. 914,446; Mar. 9; Sp. p. 1678; Gaz. vol. 140; p. 287.
- Rail and gutter, Combined life-. J. F. Booraem. No. 923,010; May 25; Sp. p. 5994; Gaz. vol. 142; p. 1043.
- Rail and manufacture thereof. A. Busse. No. 934,884; Sept. 21; Sp. p. 3834; Gaz. vol. 146; p. 665.
- Rail and rail-joint straightening device. G. W. Martin. No. 916,747; Mar. 30; Sp. p. 6249; Gaz. vol. 140; p. 1118.
- Rail-anticreep. A. Stucki. No. 915,634; Mar. 16; Sp. p. 4084; Gaz. vol. 140; p. 705.
- Rail-anticreep. A. O. Buckius, Jr. No. 938,210; Oct. 26; Sp. p. 5470; Gaz. vol. 147; p. 935.
- Rail anticreeping device. G. W. Whiteman. No. 914,095; Mar. 2; Sp. p. 946; Gaz. vol. 140; p. 148.
- Rail anticreeping device. A. F. Treter. No. 919,092; Apr. 20; Sp. p. 4411; Gaz. vol. 141; p. 771.
- Rail-base and metal cross-tie for railway-tracks. M. A. and H. C. Temple. No. 920,689; May 4; Sp. p. 1216; Gaz. vol. 142; p. 196.
- Rail-bending tool. J. R. James. No. 940,325; Nov. 16; Sp. p. 4173; Gaz. vol. 148; p. 704.
- Rail-bond. C. R. Sturdevant. No. 912,916; Feb. 16; Sp. p. 3908; Gaz. vol. 139; p. 689.
- Rail-bond. F. H. Daniels. No. 914,808; Mar. 9; Sp. p. 2421; Gaz. vol. 140; p. 407.
- Rail-bond. A. Light. No. 916,882; Mar. 30; Sp. p. 6498; Gaz. vol. 140; p. 1161.
- Rail-bond. G. H. Hill. No. 919,577; Apr. 27; Sp. p. 5635; Gaz. vol. 141; p. 968.
- Rail-bond protector. W. B. Cleveland. No. 911,209; Feb. 2; Sp. p. 365; Gaz. vol. 139; p. 64.
- Rail-bond terminals, Mold for casting. W. H. Wherry. No. 918,108; Apr. 13; Sp. p. 2337; Gaz. vol. 141; p. 418.
- Rail-bond-testing apparatus. C. R. Sturdevant. No. 933,597; Sept. 7; Sp. p. 1299; Gaz. vol. 146; p. 193.
- Rail-bonds, Manufacture of. G. A. Mead. No. 930,674; Aug. 10; Sp. p. 2159; Gaz. vol. 145; p. 307.
- Rail-bonds, Manufacture of. G. A. Mead. No. 943,438; Dec. 14; Sp. p. 3007; Gaz. vol. 149; p. 577.
- Rail-bonding apparatus. A. B. Herrick. No. 915,292; Mar. 16; Sp. p. 3381; Gaz. vol. 140; p. 590.
- Rail-brace. E. M. Smith. No. 909,954; Jan. 19; Sp. p. 3083; Gaz. vol. 138; p. 569.
- Rail-brace. J. O. Morris. No. 924,919; June 15; Sp. p. 3916; Gaz. vol. 143; p. 668.
- Rail-brace. S. M. Whitmore. No. 937,494; Oct. 19; Sp. p. 3976; Gaz. vol. 147; p. 675.
- Rail brace and fastener. A. F. W. Prella. No. 940,554; Nov. 16; Sp. p. 4692; Gaz. vol. 148; p. 781.
- Rail brace, Track-. W. B. Snodgrass. No. 925,049; June 15; Sp. p. 4189; Gaz. vol. 143; p. 713.
- Rail-brake, Pneumatic. P. O. Adams. No. 916,644; Mar. 30; Sp. p. 6069; Gaz. vol. 140; p. 1088.
- Rail-chair. E. P. Batchelder. No. 909,519; Jan. 12; Sp. p. 2201; Gaz. vol. 138; p. 391.
- Rail-chair. J. C. Wise. No. 922,653; May 25; Sp. p. 5264; Gaz. vol. 142; p. 930.
- Rail-chair. W. H. Coffman. No. 927,327; July 6; Sp. p. 1263; Gaz. vol. 144; p. 208.
- Rail-chair. A. Wardle. No. 943,206; Dec. 14; Sp. p. 2524; Gaz. vol. 149; p. 428.
- Rail chair and brace. E. Jandreau. No. 930,762; Aug. 10; Sp. p. 2346; Gaz. vol. 145; p. 406.
- Rail chair and fastening. L. R. Garrard. No. 922,271; May 18; Sp. p. 4483; Gaz. vol. 142; p. 778.
- Rail chair, Guard-. D. Crane. No. 915,745; Mar. 23; Sp. p. 4333; Gaz. vol. 140; p. 770.
- Rail-clamp. J. M. Vail. No. 911,666; Feb. 9; Sp. p. 1323; Gaz. vol. 139; p. 246.
- Rail-clamp. J. C. Crowson. No. 922,394; May 18; Sp. p. 4718; Gaz. vol. 142; p. 817.
- Rail-clamp. H. M. Plaisted. No. 924,932; June 15; Sp. p. 3936; Gaz. vol. 143; p. 673.



*Alphabetical list of inventions—Continued.*

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 Rail-clamp. G. G. Floyd. No. 929,930; Aug. 3; Sp. p. 654; Gaz. vol. 145; p. 104.  
 Rail-clamp. H. Stibbs. No. 932,186; Aug. 24; Sp. p. 5449; Gaz. vol. 145; p. 927.  
 Rail-clamp. R. N. Walton. No. 934,376; Sept. 14; Sp. p. 2835; Gaz. vol. 146; p. 473.  
 Rail-clamp. W. I. F. Harden. No. 934,725; Sept. 21; Sp. p. 3523; Gaz. vol. 146; p. 613.  
 Rail-clamp. J. C. Crowson. No. 938,218; Oct. 26; Sp. p. 5487; Gaz. vol. 147; p. 938.  
 Rail-clamp. D. S. Wert. No. 942,427; Dec. 7; Sp. p. 819; Gaz. vol. 149; p. 134.  
 Rail-clamp, Anchor. A. W. Brand. No. 938,549; Nov. 2; Sp. p. 247; Gaz. vol. 148; p. 37.  
 Rail clamp and brace. A. F. Shaner. No. 909,032; Jan. 5; Sp. p. 1225; Gaz. vol. 138; p. 197.  
 Rail clamp and tie-plate, Combined guard-. G. L. Mansfield. No. 919,741; Apr. 27; Sp. p. 5957; Gaz. vol. 141; p. 1023.  
 Rail clamp, Guard-. E. C. Scruggs. No. 912,626; Feb. 16; Sp. p. 3322; Gaz. vol. 139; p. 595.  
 Rail clamp, Guard-. J. B. Strong. No. 921,024; May 11; Sp. p. 1893; Gaz. vol. 142; p. 335.  
 Rail clamp, Guard-. W. W. Allen. No. 926,717; June 29; Sp. p. 7530; Gaz. vol. 143; p. 1325.  
 Rail clamp, Guard-. G. L. Hall. No. 938,848; Nov. 2; Sp. p. 851; Gaz. vol. 148; p. 137.  
 Rail clamp, Guard-. M. Burpee. No. 943,138; Dec. 14; Sp. p. 2395; Gaz. vol. 149; p. 407.  
 Rail-clamp, Laterally-adjustable. D. M. Pfautz and J. L. Luckenbach. No. 915,376; Mar. 16; Sp. p. 3542; Gaz. vol. 140; p. 618.  
 Rail-cleaner. J. P. Gorman. No. 944,132; Dec. 21; Sp. p. 4518; Gaz. vol. 149; p. 775.  
 Rail connection. A. McCafferty. No. 911,837; Feb. 9; Sp. p. 1587; Gaz. vol. 139; p. 295.  
 Rail connection. W. H. Yerkes. No. 921,575; May 11; Sp. p. 3027; Gaz. vol. 142; p. 575.  
 Rail connection. W. A. Hendricks. No. 923,838; June 8; Sp. p. 1673; Gaz. vol. 143; p. 277.  
 Rail connection. F. Matějka. No. 928,393; July 20; Sp. p. 3532; Gaz. vol. 144; p. 624.  
 Rail connection. W. C. Bopp. No. 940,954; Nov. 23; Sp. p. 5550; Gaz. vol. 148; p. 939.  
 Rail, Continuous. C. E. Weaver. No. 931,104; Aug. 17; Sp. p. 3113; Gaz. vol. 145; p. 546.  
 Rail-controlling device Switch-. W. F. Doner. No. 942,313; Dec. 7; Sp. p. 608; Gaz. vol. 149; p. 96.  
 Rail-controlling device, Switch-. A. Jobin. No. 943,974; Dec. 21; Sp. p. 4174; Gaz. vol. 149; p. 722.  
 Rail-corrugation-fling-off machine. J. Lang. No. 916,332; Mar. 23; Sp. p. 5407; Gaz. vol. 140; p. 961.  
 Rail coupling, Steel-. J. O. Thompson. No. 911,092; Feb. 2; Sp. p. 138; Gaz. vol. 139; p. 26.  
 Rail-curve seat. J. E. Dougherty. No. 941,312; Nov. 23; Sp. p. 6324; Gaz. vol. 148; p. 1057.  
 Rail-drilling machine. J. Weimer and R. H. Wallace. No. 922,226; May 18; Sp. p. 4399; Gaz. vol. 142; p. 763.  
 Rail-end angle-bar. W. C. Ellis. No. 921,965; May 18; Sp. p. 3865; Gaz. vol. 142; p. 676.  
 Rail-fastener. W. J. Allin. No. 911,359; Feb. 2; Sp. p. 659; Gaz. vol. 139; p. 112.  
 Rail-fastener. W. Wallace. No. 911,790; Feb. 9; Sp. p. 1501; Gaz. vol. 139; p. 280.  
 Rail-fastener. L. R. Gifford. No. 911,970; Feb. 9; Sp. p. 1935; Gaz. vol. 139; p. 340.  
 Rail-fastener. H. C. Hunt. No. 915,603; Mar. 16; Sp. p. 4016; Gaz. vol. 140; p. 693.  
 Rail-fastener. J. E. Ogden. No. 928,276; July 20; Sp. p. 3309; Gaz. vol. 144; p. 584.  
 Rail-fastener. J. Engel. No. 929,413; July 27; Sp. p. 5636; Gaz. vol. 144; p. 989.  
 Rail-fastener. G. Dorfiel. No. 931,737; Aug. 24; Sp. p. 4476; Gaz. vol. 145; p. 779.  
 Rail-fastener. J. A. McMillen. No. 937,167; Oct. 19; Sp. p. 3264; Gaz. vol. 147; p. 569.  
 Rail-fastener. F. Persic. No. 940,986; Nov. 23; Sp. p. 5604; Gaz. vol. 148; p. 949.  
 Rail-fastener. G. M. Côté. No. 941,697; Nov. 30; Sp. p. 7147; Gaz. vol. 148; p. 1206.  
 Rail fastener and bond. C. D. McAfee. No. 941,332; Nov. 23; Sp. p. 6352; Gaz. vol. 148; p. 1063.  
 Rail-fastener, Boltless. M. O'Marra. No. 920,383; May 4; Sp. p. 598; Gaz. vol. 142; p. 95.  
 Rail-fastener for metallic ties. C. D. and L. Cousino. No. 917,255; Apr. 6; Sp. p. 605; Gaz. vol. 141; p. 104.  
 Rail-fastening. J. M. Fountain. No. 915,423; Mar. 16; Sp. p. 3639; Gaz. vol. 140; p. 634.  
 Rail-fastening. M. F. Bonzano. No. 922,843; May 25; Sp. p. 5660; Gaz. vol. 142; p. 932.  
 Rail-fastening. M. F. Bonzano. No. 923,008; May 25; Sp. p. 5987; Gaz. vol. 142; p. 1043.  
 Rail-fastening. M. F. Bonzano. No. 923,009; May 25; Sp. p. 5988; Gaz. vol. 142; p. 1043.  
 Rail-fastening. H. E. Percival. No. 924,688; June 15; Sp. p. 3432; Gaz. vol. 143; p. 590.  
 Rail-fastening. J. T. Ninnis. No. 930,313; Aug. 3; Sp. p. 1391; Gaz. vol. 145; p. 251.  
 Rail-fastening. M. Eisig. No. 934,054; Sept. 14; Sp. p. 2198; Gaz. vol. 146; p. 364.  
 Rail-fastening. J. Hitzert. No. 939,419; Nov. 9; Sp. p. 2170; Gaz. vol. 148; p. 360.  
 Rail-fastening, Cushioned-guard-. E. J. Shoffner. No. 919,965; Apr. 27; Sp. p. 6421; Gaz. vol. 141; p. 1097.  
 Rail-fastening device. H. M. Mason and F. Ohe. No. 941,264; Nov. 23; Sp. p. 6221; Gaz. vol. 148; p. 1043.  
 Rail-fastening device. J. E. Hanique. No. 941,575; Nov. 30; Sp. p. 6888; Gaz. vol. 148; p. 1166.  
 Rail-fastening for securing the rail-chairs to ties. H. J. Gerhardt and F. C. Stecker. No. 935,752; Oct. 5; Sp. p. 275; Gaz. vol. 147; p. 44.  
 Rail-fastening, Metallic. H. Staadt. No. 930,322; Aug. 3; Sp. p. 1408; Gaz. vol. 145; p. 234.  
 Rail fastening or chair. C. J. Nogle and G. Haas. No. 910,411; Jan. 19; Sp. p. 4051; Gaz. vol. 138; p. 726.  
 Rail fished joint. J. Baka-Abakowsky. No. 908,934; Jan. 5; Sp. p. 1029; Gaz. vol. 138; p. 165.  
 Rail for railway-tracks, Tubular. F. P. Cookingham. No. 937,022; Oct. 12; Sp. p. 2948; Gaz. vol. 147; p. 491.  
 Rail-rog, Continuous. B. F. Suverkrup and W. O. Owens. No. 942,947; Dec. 14; Sp. p. 1963; Gaz. vol. 149; p. 341.  
 Rail-grip. A. Cortis. No. 916,675; Mar. 30; Sp. p. 6131; Gaz. vol. 140; p. 1098.  
 Rail, Guard-. J. Ferguson. No. 912,453; Feb. 16; Sp. p. 2946; Gaz. vol. 139; p. 535.  
 Rail, Guard-. C. W. Reineohel and B. L. Weaver. No. 925,226; June 15; Sp. p. 4528; Gaz. vol. 143; p. 773.  
 Rail, Guard-. C. A. Alden. No. 934,784; Sept. 21; Sp. p. 3628; Gaz. vol. 146; p. 633.  
 Rail guard-covering, Third-. E. M. Schollenberger. No. 910,730; Jan. 26; Sp. p. 4700; Gaz. vol. 138; p. 854.  
 Rail-joint. B. Wolhaupter. No. 908,530; Jan. 5; Sp. p. 207; Gaz. vol. 138; p. 35.  
 Rail-joint. F. H. Richards and W. D. Zehnder. No. 909,118; Jan. 5; Sp. p. 1416; Gaz. vol. 138; p. 226.  
 Rail-joint. H. G. Gillmor. No. 909,177; Jan. 12; Sp. p. 1540; Gaz. vol. 138; p. 278.  
 Rail-joint. A. Swenson. No. 909,346; Jan. 12; Sp. p. 1860; Gaz. vol. 138; p. 333.  
 Rail-joint. L. Johnston. No. 910,067; Jan. 19; Sp. p. 3290; Gaz. vol. 138; p. 607.  
 Rail-joint. G. A. Weber. No. 910,618; Jan. 26; Sp. p. 4498; Gaz. vol. 138; p. 820.  
 Rail-joint. G. Seemann. No. 912,495; Feb. 16; Sp. p. 3030; Gaz. vol. 139; p. 548.  
 Rail-joint. J. Giczewski. No. 912,558; Feb. 16; Sp. p. 3179; Gaz. vol. 139; p. 570.  
 Rail-joint. A. L. Stanford. No. 912,750; Feb. 16; Sp. p. 3625; Gaz. vol. 139; p. 638.  
 Rail-joint. H. S. Shafer. No. 912,901; Feb. 16; Sp. p. 3884; Gaz. vol. 139; p. 684.  
 Rail-joint. E. A. Stark. No. 912,913; Feb. 16; Sp. p. 3904; Gaz. vol. 139; p. 688.  
 Rail-joint. E. C. Wimbrough. No. 912,926; Feb. 16; Sp. p. 3930; Gaz. vol. 139; p. 692.  
 Rail-joint. E. Fields. No. 914,127; Mar. 2; Sp. p. 1018; Gaz. vol. 140; p. 160.  
 Rail-joint. E. Fixter. No. 914,128; Mar. 2; Sp. p. 1019; Gaz. vol. 140; p. 160.  
 Rail-joint. C. G. Weygandt. No. 914,210; Mar. 2; Sp. p. 1182; Gaz. vol. 140; p. 186.  
 Rail-joint. E. Fraser. No. 914,260; Mar. 2; Sp. p. 1292; Gaz. vol. 140; p. 200.  
 Rail-joint. C. O. Thomas. No. 914,616; Mar. 9; Sp. p. 2023; Gaz. vol. 140; p. 344.  
 Rail-joint. W. Kolling and A. Fischer. No. 914,849; Mar. 9; Sp. p. 2512; Gaz. vol. 140; p. 420.  
 Rail-joint. C. Bleicher. No. 915,067; Mar. 16; Sp. p. 2895; Gaz. vol. 140; p. 516.  
 Rail-joint. G. Lewis. No. 915,196; Mar. 16; Sp. p. 3208; Gaz. vol. 140; p. 560.  
 Rail-joint. H. J. Gorman and E. G. Beaty. No. 915,591; Mar. 16; Sp. p. 3987; Gaz. vol. 140; p. 689.  
 Rail-joint. F. B. Neal. No. 915,998; Mar. 23; Sp. p. 4812; Gaz. vol. 140; p. 851.  
 Rail-joint. F. L. Evans. No. 916,686; Mar. 30; Sp. p. 6147; Gaz. vol. 140; p. 1102.  
 Rail-joint. C. P. Lancaster. No. 916,880; Mar. 30; Sp. p. 6495; Gaz. vol. 140; p. 1160.  
 Rail-joint. A. M. Ritchey and R. C. Shane. No. 917,153; Apr. 6; Sp. p. 401; Gaz. vol. 141; p. 69.  
 Rail-joint. B. A. Johnson. No. 917,447; Apr. 6; Sp. p. 974; Gaz. vol. 141; p. 169.  
 Rail-joint. G. H. Pickering. No. 918,467; Apr. 13; Sp. p. 3047; Gaz. vol. 141; p. 536.  
 Rail-joint. J. S. Merritt and H. B. Coburn. No. 918,577; Apr. 20; Sp. p. 3299; Gaz. vol. 141; p. 600.  
 Rail-joint. T. J. Akers. No. 919,280; Apr. 20; Sp. p. 4966; Gaz. vol. 141; p. 832.  
 Rail-joint. S. P. McGough. No. 919,373; Apr. 27; Sp. p. 5182; Gaz. vol. 141; p. 898.  
 Rail-joint. J. Crooks. No. 920,028; Apr. 27; Sp. p. 6550; Gaz. vol. 141; p. 1117.  
 Rail-joint. S. Gins and E. Feldman. No. 920,047; Apr. 27; Sp. p. 6607; Gaz. vol. 141; p. 1124.  
 Rail-joint. W. H. Sanderson. No. 920,661; May 4; Sp. p. 1150; Gaz. vol. 142; p. 186.  
 Rail-joint. P. J. Dalton. No. 920,831; May 4; Sp. p. 1491; Gaz. vol. 142; p. 241.  
 Rail-joint. A. G. Urban. No. 920,887; May 4; Sp. p. 1624; Gaz. vol. 142; p. 259.  
 Rail-joint. R. Harrison. No. 921,245; May 11; Sp. p. 2352; Gaz. vol. 142; p. 412.  
 Rail-joint. A. Ambert. No. 921,577; May 11; Sp. p. 3031; Gaz. vol. 142; p. 521.

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- Rail-joint. J. S. Foulkrod and F. P. Moitz. No. 921,689; May 18; Sp. p. 3301; Gaz. vol. 142; p. 587.  
 Rail-joint. R. Peluso and D. Sack. No. 922,030; May 18; Sp. p. 4002; Gaz. vol. 142; p. 699.  
 Rail-joint. J. B. Weaver. No. 922,224; May 18; Sp. p. 4396; Gaz. vol. 142; p. 762.  
 Rail-joint. W. R. Barney. No. 922,239; May 18; Sp. p. 4416; Gaz. vol. 142; p. 767.  
 Rail-joint. E. M. Smith. No. 922,533; May 25; Sp. p. 5016; Gaz. vol. 142; p. 891.  
 Rail-joint. C. R. Baldrige. No. 922,835; May 25; Sp. p. 5646; Gaz. vol. 142; p. 989.  
 Rail-joint. A. Chriske. No. 923,331; June 1; Sp. p. 516; Gaz. vol. 143; p. 73.  
 Rail-joint. J. J. Galey. No. 923,351; June 1; Sp. p. 564; Gaz. vol. 143; p. 81.  
 Rail-joint. C. A. Alden and G. S. Vickery. No. 925,552; June 22; Sp. p. 5137; Gaz. vol. 143; p. 906.  
 Rail-joint. J. H. Allen. No. 925,791; June 22; Sp. p. 5667; Gaz. vol. 143; p. 983.  
 Rail-joint. J. L. McClintock. No. 925,939; June 22; Sp. p. 5977; Gaz. vol. 143; p. 1032.  
 Rail-joint. G. M. Sheffer. No. 926,215; June 29; Sp. p. 6574; Gaz. vol. 143; p. 1161.  
 Rail-joint. J. Sheets. No. 926,297; June 29; Sp. p. 6726; Gaz. vol. 143; p. 1186.  
 Rail-joint. E. A. Kimball and H. S. Freeman. No. 926,879; July 6; Sp. p. 362; Gaz. vol. 144; p. 58.  
 Rail-joint. B. G. Braine. No. 927,105; July 6; Sp. p. 856; Gaz. vol. 144; p. 137.  
 Rail-joint. J. M. Cunningham. No. 927,330; July 6; Sp. p. 1269; Gaz. vol. 144; p. 209.  
 Rail-joint. W. Wright. No. 927,393; July 6; Sp. p. 376; Gaz. vol. 144; p. 229.  
 Rail-joint. E. W. Gorsuch. No. 927,650; July 13; Sp. p. 1971; Gaz. vol. 144; p. 344.  
 Rail-joint. J. Fait. No. 927,720; July 13; Sp. p. 2123; Gaz. vol. 144; p. 368.  
 Rail-joint. R. H. Marsh. No. 927,987; July 13; Sp. p. 2672; Gaz. vol. 144; p. 455.  
 Rail-joint. F. Mihalik. No. 928,683; July 20; Sp. p. 4127; Gaz. vol. 144; p. 718.  
 Rail-joint. G. M. Ellis. No. 928,952; July 27; Sp. p. 4651; Gaz. vol. 144; p. 835.  
 Rail-joint. J. G. Page. No. 929,323; July 27; Sp. p. 5472; Gaz. vol. 144; p. 960.  
 Rail-joint. J. McNamara. No. 929,468; July 27; Sp. p. 5726; Gaz. vol. 144; p. 1005.  
 Rail-joint. B. Blamplied. No. 929,750; Aug. 3; Sp. p. 245; Gaz. vol. 145; p. 42.  
 Rail-joint. J. Brown. No. 930,834; Aug. 10; Sp. p. 2483; Gaz. vol. 145; p. 430.  
 Rail-joint. H. W. Lewis. No. 930,870; Aug. 10; Sp. p. 2561; Gaz. vol. 145; p. 441.  
 Rail-joint. J. S. Hickson. No. 931,117; Aug. 17; Sp. p. 3145; Gaz. vol. 145; p. 551.  
 Rail-joint. T. K. Diehl. No. 931,577; Aug. 17; Sp. p. 4095; Gaz. vol. 145; p. 705.  
 Rail-joint. R. T. Frederick and J. L. Chapman. No. 931,589; Aug. 17; Sp. p. 4112; Gaz. vol. 145; p. 708.  
 Rail-joint. J. Eberding. No. 931,740; Aug. 24; Sp. p. 4483; Gaz. vol. 145; p. 781.  
 Rail-joint. J. G. McMichael. No. 932,052; Aug. 24; Sp. p. 5176; Gaz. vol. 145; p. 883.  
 Rail-joint. J. G. McMichael. No. 932,053; Aug. 24; Sp. p. 5176; Gaz. vol. 145; p. 883.  
 Rail-joint. C. F. Martin. No. 932,305; Aug. 24; Sp. p. 5668; Gaz. vol. 145; p. 967.  
 Rail-joint. I. H. Ferree and W. D. Kennedy. No. 932,850; Aug. 31; Sp. p. 6815; Gaz. vol. 145; p. 1169.  
 Rail-joint. C. F. Cochran and C. F. Long. No. 933,061; Sept. 7; Sp. p. 48; Gaz. vol. 146; p. 9.  
 Rail-joint. A. C. Halterman and W. S. Buckhannon. No. 933,438; Sept. 7; Sp. p. 890; Gaz. vol. 146; p. 139.  
 Rail-joint. J. and F. Minih. No. 933,482; Sept. 7; Sp. p. 1074; Gaz. vol. 146; p. 155.  
 Rail-joint. J. D'Esposito. No. 933,534; Sept. 7; Sp. p. 1183; Gaz. vol. 146; p. 171.  
 Rail-joint. R. J. Price. No. 933,581; Sept. 7; Sp. p. 1265; Gaz. vol. 146; p. 187.  
 Rail-joint. M. E. Bethurum. No. 934,271; Sept. 14; Sp. p. 2637; Gaz. vol. 146; p. 437.  
 Rail-joint. J. H. Allen. No. 934,648; Sept. 21; Sp. p. 3377; Gaz. vol. 146; p. 588.  
 Rail-joint. D. W. Alderman. No. 934,705; Sept. 21; Sp. p. 3488; Gaz. vol. 146; p. 607.  
 Rail-joint. G. Ferguson. No. 934,720; Sept. 21; Sp. p. 3516; Gaz. vol. 146; p. 612.  
 Rail-joint. J. Malterer. No. 934,926; Sept. 21; Sp. p. 3920; Gaz. vol. 146; p. 680.  
 Rail-joint. J. F. McGhee. No. 935,394; Sept. 28; Sp. p. 4862; Gaz. vol. 146; p. 860.  
 Rail-joint. J. F. Beatty. No. 935,835; Oct. 5; Sp. p. 503; Gaz. vol. 147; p. 72.  
 Rail-joint. L. Larson. No. 937,003; Oct. 12; Sp. p. 2906; Gaz. vol. 147; p. 484.  
 Rail-joint. W. P. and S. G. Thomson. No. 937,117; Oct. 19; Sp. p. 3140; Gaz. vol. 147; p. 552.  
 Rail-joint. H. Martin. No. 937,162; Oct. 19; Sp. p. 3250; Gaz. vol. 147; p. 567.  
 Rail-joint. W. H. Shugart. No. 937,333; Oct. 19; Sp. p. 3600; Gaz. vol. 147; p. 622.  
 Rail-joint. J. P. Heuer. No. 937,600; Oct. 19; Sp. p. 4177; Gaz. vol. 147; p. 712.  
 Rail-joint. C. Parsons. No. 937,740; Oct. 19; Sp. p. 4459; Gaz. vol. 147; p. 756.  
 Rail-joint. A. H. Newpher. No. 938,167; Oct. 26; Sp. p. 5383; Gaz. vol. 147; p. 919.  
 Rail-joint. H. Protheroe, H. Smith, and G. W. Way. No. 938,272; Oct. 26; Sp. p. 5588; Gaz. vol. 147; p. 955.  
 Rail-joint. E. J. Frost. No. 939,240; Nov. 9; Sp. p. 1720; Gaz. vol. 148; p. 298.  
 Rail-joint. A. Bynum. No. 940,633; Nov. 16; Sp. p. 4847; Gaz. vol. 148; p. 807.  
 Rail-joint. G. H. Barbour. No. 940,777; Nov. 23; Sp. p. 5186; Gaz. vol. 148; p. 881.  
 Rail-joint. J. Schushey. No. 941,279; Nov. 23; Sp. p. 6262; Gaz. vol. 148; p. 1048.  
 Rail-joint. M. Thorson. No. 941,473; Nov. 30; Sp. p. 6683; Gaz. vol. 148; p. 1133.  
 Rail-joint. M. Barschall. No. 942,127; Dec. 7; Sp. p. 215; Gaz. vol. 149; p. 33.  
 Rail-joint. W. E. Ransom. No. 942,411; Dec. 7; Sp. p. 791; Gaz. vol. 149; p. 128.  
 Rail-joint. W. P. Perkins. No. 942,662; Dec. 7; Sp. p. 1312; Gaz. vol. 149; p. 215.  
 Rail-joint. L. Deer and F. Smith. No. 943,394; Dec. 14; Sp. p. 2922; Gaz. vol. 149; p. 492.  
 Rail-joint. W. P. and S. G. Thomson. No. 944,298; Dec. 28; Sp. p. 4855; Gaz. vol. 149; p. 856.  
 Rail-joint. A. L. Stanford. No. 944,349; Dec. 28; Sp. p. 4958; Gaz. vol. 149; p. 874.  
 Rail-joint. E. V. Mercer. No. 944,806; Dec. 28; Sp. p. 5992; Gaz. vol. 149; p. 1031.  
 Rail-joint. M. Raymond. No. 944,908; Dec. 28; Sp. p. 6201; Gaz. vol. 149; p. 1066.  
 Rail-joint and brace. A. J. Mahr. No. 937,621; Oct. 19; Sp. p. 4220; Gaz. vol. 147; p. 718.  
 Rail-joint and chair. C. D. Wright. No. 924,713; June 15; Sp. p. 3480; Gaz. vol. 143; p. 599.  
 Rail-joint and chair, Combined. Z. T. Hoskins. No. 943,880; Dec. 21; Sp. p. 3966; Gaz. vol. 149; p. 689.  
 Rail-joint and fastener. H. H. Markland. No. 938,262; Oct. 26; Sp. p. 5570; Gaz. vol. 147; p. 952.  
 Rail-joint and rail-brace. P. Holdampf. No. 916,315; Mar. 23; Sp. p. 5381; Gaz. vol. 140; p. 955.  
 Rail-joint and tie-bar and nut-lock. C. C. and M. K. Gross. No. 938,314; Oct. 26; Sp. p. 5692; Gaz. vol. 147; p. 969.  
 Rail-joint and tie-plate. A. L. Barns. No. 936,850; Oct. 12; Sp. p. 2611; Gaz. vol. 147; p. 435.  
 Rail-joint, Boltless. F. Kelly. No. 938,587; Nov. 2; Sp. p. 334; Gaz. vol. 148; p. 49.  
 Rail-joint castings, Pattern for. C. A. Weeks. No. 934,703; Sept. 21; Sp. p. 3483; Gaz. vol. 146; p. 606.  
 Rail-joint, Compromise. V. C. Armstrong. No. 912,640; Feb. 16; Sp. p. 3341; Gaz. vol. 139; p. 599.  
 Rail-joint, Compromise. B. G. Braine. No. 920,817; May 4; Sp. p. 1470; Gaz. vol. 142; p. 237.  
 Rail-joint, Emergency. M. Holland. No. 933,902; Sept. 14; Sp. p. 1916; Gaz. vol. 146; p. 317.  
 Rail-joint, Insulated. J. C. Jones. No. 919,877; Apr. 27; Sp. p. 6265; Gaz. vol. 141; p. 1069.  
 Rail-joint, Insulated. R. W. Smith. No. 920,782; May 4; Sp. p. 1394; Gaz. vol. 142; p. 225.  
 Rail-joint, Insulated. R. W. Smith. No. 920,783; May 4; Sp. p. 1396; Gaz. vol. 142; p. 226.  
 Rail-joint, Insulated. B. Wolhaupter. No. 920,801; May 4; Sp. p. 1436; Gaz. vol. 142; p. 232.  
 Rail-joint, Insulated. G. L. Hall. No. 937,369; Oct. 19; Sp. p. 3674; Gaz. vol. 147; p. 633.  
 Rail-joint, Insulated. B. Wolhaupter and L. F. Braine. No. 937,499; Oct. 19; Sp. p. 3989; Gaz. vol. 147; p. 677.  
 Rail-joint, Insulated. G. W. Whiteman. No. 941,175; Nov. 23; Sp. p. 6027; Gaz. vol. 148; p. 1013.  
 Rail-joint, Insulating. B. Wolhaupter. No. 922,742; May 25; Sp. p. 5450; Gaz. vol. 142; p. 959.  
 Rail-joint, Interlock continuous. T. A. Nicholson and W. B. Pierson. No. 919,452; Apr. 27; Sp. p. 5352; Gaz. vol. 141; p. 925.  
 Rail-joint lock. H. L. Mason. No. 926,888; July 6; Sp. p. 383; Gaz. vol. 144; p. 62.  
 Rail-joint pattern. B. Wolhaupter and B. G. Braine. No. 925,738; June 22; Sp. p. 5538; Gaz. vol. 143; p. 965.  
 Rail-joint splice-bar. N. Benjamin. No. 934,270; Sept. 14; Sp. p. 2636; Gaz. vol. 146; p. 437.  
 Rail-joint splice-bar. W. P. and S. G. Thomson. No. 937,116; Oct. 19; Sp. p. 3138; Gaz. vol. 147; p. 552.  
 Rail-joint splice-bar. W. P. and S. G. Thomson. No. 937,118; Oct. 19; Sp. p. 3143; Gaz. vol. 147; p. 553.  
 Rail-joint splice-bar. W. P. and S. G. Thomson. No. 937,727; Oct. 19; Sp. p. 4434; Gaz. vol. 147; p. 752.  
 Rail-joint support. P. H. Ginn. No. 920,128; May 4; Sp. p. 79; Gaz. vol. 142; p. 11.  
 Rail-joint truss-support. L. Mueller. No. 919,617; Apr. 27; Sp. p. 5712; Gaz. vol. 141; p. 982.  
 Rail-joint truss-support. L. Mueller. No. 931,459; Aug. 17; Sp. p. 3878; Gaz. vol. 145; p. 669.  
 Rail-joint, Welded. C. F. Gailor. No. 930,066; Aug. 3; Sp. p. 934; Gaz. vol. 145; p. 150.  
 Rail-joints, Splice-bar for. W. P. and S. G. Thomson. No. 941,472; Nov. 30; Sp. p. 6685; Gaz. vol. 148; p. 1132.  
 Rail milling and dressing machine. M. Woods and T. J. Gilbert. No. 918,634; Apr. 20; Sp. p. 3439; Gaz. vol. 141; p. 620.  
 Rail or other electrical conductor, Third-. W. J. J. Burch. No. 929,284; July 27; Sp. p. 5365; Gaz. vol. 144; p. 945.



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- Rail plate and brace, Combination. J. F. Witt. No. 915,921; Mar. 23; Sp. p. 4654; Gaz. vol. 140; p. 826.
- Rail point, Guard-. W. R. Chedester. No. 910,115; Jan. 19; Sp. p. 3379; Gaz. vol. 138; p. 621.
- Rail, Reversible-guard guard-. C. W. Reinohl and B. L. Weaver. No. 912,618; Feb. 16; Sp. p. 3308; Gaz. vol. 139; p. 592.
- Rail sand, Track-. J. Taylor. No. 924,202; June 8; Sp. p. 2429; Gaz. vol. 143; p. 396.
- Rail-sanding device. C. F. Johndrow. No. 940,025; Nov. 16; Sp. p. 3462; Gaz. vol. 148; p. 598.
- Rail, Sectional. O. P. W. Michael. No. 922,439; May 18; Sp. p. 4814; Gaz. vol. 142; p. 832.
- Rail-securing device, Guard-. G. C. Lucas. No. 935,037; Sept. 28; Sp. p. 4145; Gaz. vol. 146; p. 743.
- Rail-securing device, Track-. B. Bourne. No. 935,580; Sept. 28; Sp. p. 5260; Gaz. vol. 146; p. 922.
- Rail, Shift-. G. H. Sargent. No. 910,089; Jan. 19; Sp. p. 3337; Gaz. vol. 138; p. 614.
- Rail, Shifting. D. W. Connell. No. 914,702; Mar. 9; Sp. p. 2212; Gaz. vol. 140; p. 371.
- Rail-spike. J. M. Scott. No. 911,273; Feb. 2; Sp. p. 499; Gaz. vol. 139; p. 85.
- Rail-splice. J. Thomas. No. 918,793; Apr. 20; Sp. p. 3794; Gaz. vol. 141; p. 673.
- Rail-splice. C. G. Gates. No. 928,747; July 20; Sp. p. 4243; Gaz. vol. 144; p. 739.
- Rail-splice. D. Caryl. No. 936,217; Oct. 5; Sp. p. 1279; Gaz. vol. 147; p. 195.
- Rail-splice. J. Thomas. No. 940,218; Nov. 16; Sp. p. 3930; Gaz. vol. 148; p. 668.
- Rail splice and brace. R. L. Aernathy. No. 922,231; May 18; Sp. p. 4406; Gaz. vol. 142; p. 764.
- Rail-splitting shears. C. E. Macbeth and F. C. Stiening. No. 933,088; Sept. 7; Sp. p. 104; Gaz. vol. 146; p. 18.
- Rail-stay. J. M. Vail. No. 912,334; Feb. 16; Sp. p. 2710; Gaz. vol. 139; p. 494.
- Rail-stay. J. M. Vail. No. 921,919; May 18; Sp. p. 3761; Gaz. vol. 142; p. 663.
- Rail stay and brace, Combined. J. M. Vail. No. 917,815; Apr. 13; Sp. p. 1718; Gaz. vol. 141; p. 316.
- Rail-straightening device. J. Warehock. No. 924,514; June 8; Sp. p. 3045; Gaz. vol. 143; p. 498.
- Rail-support. G. M. Côté. No. 939,477; Nov. 9; Sp. p. 2294; Gaz. vol. 148; p. 380.
- Rail support and securing device. E. R. Inman. No. 926,872; July 6; Sp. p. 354; Gaz. vol. 144; p. 56.
- Rail support, Insulating third-. D. M. Pfautz and J. L. Luckenbach. No. 915,375; Mar. 16; Sp. p. 3538; Gaz. vol. 140; p. 618.
- Rail-supporting means of metallic ties, Brace for. M. F. Bonzano. No. 940,579; Nov. 16; Sp. p. 4742; Gaz. vol. 148; p. 789.
- Rail system, Guard-. A. Morrison. No. 921,140; May 11; Sp. p. 2131; Gaz. vol. 142; p. 375.
- Rail system, Third-. Y. Burgess. No. 921,508; May 11; Sp. p. 2912; Gaz. vol. 142; p. 500.
- Rail-tie. E. C. Culver. No. 908,965; Jan. 5; Sp. p. 1084; Gaz. vol. 138; p. 175.
- Rail-tie. D. W. O'Neal. No. 916,770; Mar. 30; Sp. p. 6287; Gaz. vol. 140; p. 1124.
- Rail-tie. T. P. McCarrier and H. E. Hanna. No. 917,641; Apr. 6; Sp. p. 1322; Gaz. vol. 141; p. 233.
- Rail-tie. P. Donovan. No. 918,022; Apr. 13; Sp. p. 2160; Gaz. vol. 141; p. 389.
- Rail-tie. J. Griffin. No. 933,553; Sept. 7; Sp. p. 1216; Gaz. vol. 146; p. 178.
- Rail-tie. A. J. Chambliss. No. 939,801; Nov. 9; Sp. p. 2990; Gaz. vol. 148; p. 492.
- Rail-tie. C. Carrell. No. 941,307; Nov. 23; Sp. p. 6310; Gaz. vol. 148; p. 1055.
- Rail-tie. W. Churchill and M. L. O'Neil. No. 941,913; Nov. 30; Sp. p. 7616; Gaz. vol. 148; p. 1283.
- Rail tie and brace. J. Davidson. No. 917,554; Apr. 6; Sp. p. 1166; Gaz. vol. 141; p. 203.
- Rail tie and chair, Metallic. E. Wheeler. No. 943,852; Dec. 21; Sp. p. 3911; Gaz. vol. 149; p. 681.
- Rail tie and fastener. T. Johnson. No. 918,452; Apr. 13; Sp. p. 3017; Gaz. vol. 141; p. 530.
- Rail tie and fastener. W. O. Timmons. No. 930,437; Aug. 10; Sp. p. 1641; Gaz. vol. 145; p. 297.
- Rail tie and fastening, Composite. B. Wolhaupter. No. 937,133; Oct. 19; Sp. p. 3180; Gaz. vol. 147; p. 557.
- Rail-tie, Composite. B. Wolhaupter. No. 937,132; Oct. 19; Sp. p. 3176; Gaz. vol. 147; p. 557.
- Rail, Train-actuated. H. F. Roach. No. 926,210; June 29; Sp. p. 6553; Gaz. vol. 143; p. 1158.
- Rail, Tramway-. J. H. Briggs. No. 944,982; Dec. 28; Sp. p. 6350; Gaz. vol. 149; p. 1089.
- Rail-tying mechanism. W. F. Andrews. No. 928,301; July 20; Sp. p. 3366; Gaz. vol. 144; p. 592.
- Rails and beams, Tie-joint for. A. Ristuccia. No. 943,788; Dec. 21; Sp. p. 3779; Gaz. vol. 149; p. 658.
- Rails and other metal pieces, Uniting. C. F. Jacobs. No. 933,457; Sept. 7; Sp. p. 962; Gaz. vol. 146; p. 145.
- Rails, Automatic cleaning device for tramway-. J. Sandoz-Sutter. No. 928,543; July 20; Sp. p. 3827; Gaz. vol. 144; p. 671.
- Rails, Bonding. C. F. Jacobs. No. 933,458; Sept. 7; Sp. p. 965; Gaz. vol. 146; p. 146.
- Rails, Device for preventing the creeping of. H. Dormüller. No. 923,417; June 1; Sp. p. 694; Gaz. vol. 143; p. 102.
- Rails from longitudinal slipping, Device for preventing. F. Märten. No. 917,334; Apr. 6; Sp. p. 777; Gaz. vol. 141; p. 132.
- Rails from spreading, Means for preventing. C. H. Magruder. No. 922,928; May 25; Sp. p. 5882; Gaz. vol. 142; p. 1020.
- Rails, &c., Instrument for measuring the cross-section of. R. Barthelme. No. 941,297; Nov. 23; Sp. p. 6295; Gaz. vol. 148; p. 1053.
- Rails, Manufacturing. N. Rendleman. No. 939,320; Nov. 9; Sp. p. 1921; Gaz. vol. 148; p. 528.
- Rails of tramways and railways, Apparatus for cleansing the. F. J. Pringle. No. 916,015; Mar. 23; Sp. p. 4838; Gaz. vol. 140; p. 856.
- Rails, Step-joint for. J. H. Allen. No. 943,057; Dec. 14; Sp. p. 2242; Gaz. vol. 149; p. 380.
- Rails to metallic ties, Means for securing. S. C. Berryman and J. C. Turner. No. 928,173; July 13; Sp. p. 3034; Gaz. vol. 144; p. 517.
- Rails to ties, Device for fastening. J. J. Russell. No. 923,708; June 1; Sp. p. 1318; Gaz. vol. 143; p. 204.
- Rails, Track-fastener for. R. B. Robinson. No. 922,043; May 18; Sp. p. 4018; Gaz. vol. 142; p. 702.
- Rails, Treatment of steel. F. H. Daniels. No. 941,134; Nov. 23; Sp. p. 5943; Gaz. vol. 148; p. 999.
- Railway. J. J. Martin. No. 910,559; Jan. 26; Sp. p. 4368; Gaz. vol. 138; p. 801.
- Railway. L. Gemmer. No. 916,295; Mar. 23; Sp. p. 5345; Gaz. vol. 140; p. 947.
- Railway accidents, Device for the prevention of. R. Häuser. No. 937,438; Oct. 19; Sp. p. 3852; Gaz. vol. 147; p. 656.
- Railway-air-brake safety hose-coupling. K. Ráth. No. 910,579; Jan. 26; Sp. p. 4410; Gaz. vol. 138; p. 807.
- Railway alarm-signal. J. Shavaler. No. 911,769; Feb. 9; Sp. p. 1468; Gaz. vol. 139; p. 274.
- Railway and like uses, Spike for. W. Ferguson, Jr. No. 944,725; Dec. 28; Sp. p. 5806; Gaz. vol. 149; p. 1004.
- Railway and like vehicle bogie. A. Spencer. No. 914,889; Mar. 9; Sp. p. 2594; Gaz. vol. 140; p. 433.
- Railway and rail-support therefor. W. L. De Remer. No. 942,032; Nov. 30; Sp. p. 7834; Gaz. vol. 148; p. 1320.
- Railway and tramway reinforced-concrete sleeper. G. Liébeaux and F. Hennebique. No. 911,734; Feb. 9; Sp. p. 1411; Gaz. vol. 139; p. 263.
- Railway and vehicular device for purposes of amusement. P. Marshall, C. C. Metcalfe, and W. Knowles. No. 910,702; Jan. 26; Sp. p. 4647; Gaz. vol. 138; p. 845.
- Railway-apparatus control. L. A. Hawkins. No. 919,573; Apr. 27; Sp. p. 5626; Gaz. vol. 141; p. 966.
- Railway appliance. H. S. Blankenship. No. 932,104; Aug. 24; Sp. p. 5276; Gaz. vol. 145; p. 899.
- Railway automatic danger and safety signal system. A. F. Eells. No. 914,482; Mar. 9; Sp. p. 1743; Gaz. vol. 140; p. 299.
- Railway automatic electrical signaling system. C. Crandall. No. 914,801; Mar. 9; Sp. p. 2409; Gaz. vol. 140; p. 404.
- Railway automatic safety appliance. R. D. Farrell. No. 911,961; Feb. 9; Sp. p. 1310; Gaz. vol. 139; p. 336.
- Railway automatic safety appliance. R. D. Farrell. No. 937,294; Oct. 19; Sp. p. 3528; Gaz. vol. 147; p. 609.
- Railway automatic safety appliance. W. G. Daring. No. 941,233; Nov. 23; Sp. p. 6155; Gaz. vol. 148; p. 1032.
- Railway automatic safety signal system. G. B. Gray. No. 909,083; Jan. 5; Sp. p. 1326; Gaz. vol. 138; p. 213.
- Railway, Automobile scenic. A. G. Neville. No. 924,182; June 8; Sp. p. 2371; Gaz. vol. 143; p. 389.
- Railway, Automobile scenic. A. G. Neville. No. 933,914; Sept. 14; Sp. p. 1946; Gaz. vol. 146; p. 320.
- Railway block-signal system. J. P. France. No. 912,371; Feb. 16; Sp. p. 2781; Gaz. vol. 139; p. 507.
- Railway block-signaling system. J. Gaszper. No. 942,255; Dec. 7; Sp. p. 487; Gaz. vol. 149; p. 76.
- Railway block system. G. W. Nistle, E. Inskip, and B. W. Brady. No. 926,818; July 6; Sp. p. 226; Gaz. vol. 144; p. 37.
- Railway block system. G. W. Nistle, B. W. Brady, and E. Inskip. No. 928,271; July 20; Sp. p. 3286; Gaz. vol. 144; p. 582.
- Railway block system. G. W. Nistle, B. W. Brady, and E. Inskip. No. 928,273; July 20; Sp. p. 3295; Gaz. vol. 144; p. 583.
- Railway block system. G. W. Nistle, E. Inskip, and B. W. Brady. No. 928,274; July 20; Sp. p. 3301; Gaz. vol. 144; p. 583.
- Railway block system. W. L. Rummel. No. 932,582; Aug. 31; Sp. p. 6255; Gaz. vol. 145; p. 1082.
- Railway-brake. C. E. Duffie. No. 943,737; Dec. 21; Sp. p. 3682; Gaz. vol. 149; p. 640.
- Railway brake-beam. S. A. Crone. No. 911,867; Feb. 9; Sp. p. 1642; Gaz. vol. 139; p. 305.
- Railway-brake slack-adjuster. H. G. Hamer. No. 944,609; Dec. 28; Sp. p. 5573; Gaz. vol. 149; p. 966.
- Railway, Cable. G. F. Roughan. No. 940,825; Nov. 23; Sp. p. 5285; Gaz. vol. 148; p. 896.
- Railway-car bolster. J. M. Hansen. No. 909,588; Jan. 12; Sp. p. 2332; Gaz. vol. 138; p. 413.
- Railway-car safety air-brake appliance. D. N. Bacot and D. D. Arden. No. 912,932; Feb. 16; Sp. p. 3940; Gaz. vol. 139; p. 693.
- Railway-carriage doors, Appliance for automatically and otherwise locking and unlocking. D. Andrews and C. Bickerton. No. 942,125; Dec. 7; Sp. p. 212; Gaz. vol. 149; p. 32.
- Railway cattle-guard. J. H. Wheeler. No. 931,537; Aug. 17; Sp. p. 4017; Gaz. vol. 145; p. 692.
- Railway-coach. R. A. Felton. No. 940,383; Nov. 16; Sp. p. 4325; Gaz. vol. 148; p. 724.
- Railway-coach indicator, Street-. E. Miller. No. 911,666; Feb. 9; Sp. p. 1282; Gaz. vol. 139; p. 240.
- Railway collision-preventing device. F. Wolf. No. 912,346; Feb. 16; Sp. p. 2733; Gaz. vol. 139; p. 498.
- Railway collisions, Apparatus for preventing. T. C. Mason. No. 937,377; Oct. 19; Sp. p. 3703; Gaz. vol. 147; p. 636.
- Railway composite cross-tie. O. Gerlach. No. 938,136; Oct. 26; Sp. p. 5307; Gaz. vol. 147; p. 908.
- Railway construction. R. Waples. No. 925,404; June 15; Sp. p. 4836; Gaz. vol. 143; p. 827.



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 Railway construction. E. D. McDonald. No. 943,198; Dec. 14; Sp. p. 2509; Gaz. vol. 149; p. 426.  
 Railway construction, Subway-. R. N. R. Phelps. No. 917,653; Apr. 6; Sp. p. 1342; Gaz. vol. 141; p. 237.  
 Railway controlling and signaling system, Electric. H. E. McDonnell. No. 909,201; Jan. 12; Sp. p. 1588; Gaz. vol. 138; p. 286.  
 Railway cross-tie. J. A. Atwood. No. 909,359; Jan. 12; Sp. p. 1877; Gaz. vol. 138; p. 336.  
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 Railway cross-tie. M. L. Townsend. No. 933,276; Sept. 7; Sp. p. 566; Gaz. vol. 146; p. 87.  
 Railway-crossing. A. E. Kaltschmidt. No. 909,189; Jan. 12; Sp. p. 1571; Gaz. vol. 138; p. 282.  
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 Railway-crossing. E. W. Dwight. No. 914,025; Mar. 2; Sp. p. 814; Gaz. vol. 140; p. 124.  
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 Railway-crossing. C. J. Griffith. No. 917,051; Apr. 6; Sp. p. 185; Gaz. vol. 141; p. 34.  
 Railway-crossing. B. C. Meyer. No. 926,672; June 29; Sp. p. 7426; Gaz. vol. 143; p. 1310.  
 Railway-crossing. J. W. Baldwin, Jr. No. 928,238; July 20; Sp. p. 3193; Gaz. vol. 144; p. 569.  
 Railway-crossing. F. Washam. No. 930,004; Aug. 3; Sp. p. 812; Gaz. vol. 145; p. 130.  
 Railway-crossing. J. E. Reese. No. 930,883; Aug. 10; Sp. p. 2609; Gaz. vol. 145; p. 446.  
 Railway-crossing. O. Poston. No. 934,836; Sept. 21; Sp. p. 8739; Gaz. vol. 146; p. 650.  
 Railway-crossing. F. E. Jacob. No. 935,910; Oct. 5; Sp. p. 665; Gaz. vol. 147; p. 97.  
 Railway-crossing. I. O. Stant. No. 942,358; Dec. 7; Sp. p. 689; Gaz. vol. 149; p. 111.  
 Railway-crossing. W. C. Peters. No. 942,740; Dec. 7; Sp. p. 1467; Gaz. vol. 149; p. 240.  
 Railway-crossing. C. A. Alden and G. S. Vickery. No. 944,067; Dec. 21; Sp. p. 4372; Gaz. vol. 149; p. 753.  
 Railway-crossing gate. P. Hamer. No. 917,939; Apr. 13; Sp. p. 1971; Gaz. vol. 141; p. 358.  
 Railway-crossing gate. J. W. Noel. No. 928,788; July 20; Sp. p. 4318; Gaz. vol. 144; p. 752.  
 Railway-crossing gate. H. J. Richendrer. No. 943,566; Dec. 14; Sp. p. 3279; Gaz. vol. 149; p. 553.  
 Railway-crossing gate, Automatically-operated. W. J. Cook. No. 940,786; Nov. 23; Sp. p. 5203; Gaz. vol. 148; p. 883.  
 Railway-crossing gate, Electrically-operated. T. Hummel. No. 943,352; Dec. 14; Sp. p. 2844; Gaz. vol. 149; p. 478.  
 Railway-crossing, Noiseless. J. E. Reyburn. No. 936,477; Oct. 12; Sp. p. 1856; Gaz. vol. 147; p. 308.  
 Railway-crossing signal. H. W. Souder. No. 911,623; Feb. 9; Sp. p. 1184; Gaz. vol. 139; p. 225.  
 Railway-crossing signal. G. A. Davis. No. 914,389; Mar. 9; Sp. p. 1576; Gaz. vol. 140; p. 268.  
 Railway-crossing signal. G. P. A. Weisenborn. No. 925,540; June 22; Sp. p. 5116; Gaz. vol. 143; p. 901.  
 Railway-crossing signal. G. A. Silver. No. 936,372; Oct. 12; Sp. p. 1615; Gaz. vol. 147; p. 274.  
 Railway-crossings, Block system for. G. W. Nistle, B. W. Brady, and E. Inskip. No. 928,148; July 13; Sp. p. 2971; Gaz. vol. 144; p. 508.  
 Railway crossings, Groove-filling device for street-. P. K. Young. No. 939,463; Nov. 9; Sp. p. 2264; Gaz. vol. 148; p. 375.  
 Railway danger-signal mechanism. R. E. Murphy. No. 938,429; Oct. 26; Sp. p. 5951; Gaz. vol. 147; p. 1009.  
 Railway-derailer. T. W. Epling. No. 916,851; Mar. 30; Sp. p. 6445; Gaz. vol. 140; p. 1151.  
 Railway despatch-catcher. A. Beamer. No. 934,129; Sept. 14; Sp. p. 2380; Gaz. vol. 146; p. 390.  
 Railway device. A. Martin. No. 936,004; Oct. 5; Sp. p. 855; Gaz. vol. 147; p. 129.  
 Railway draft-gear. R. A. French. No. 944,326; Dec. 28; Sp. p. 4917; Gaz. vol. 149; p. 866.  
 Railway draft-gear. R. A. French and L. T. Girdler. No. 944,327; Dec. 28; Sp. p. 4918; Gaz. vol. 149; p. 867.  
 Railway-draft-rigging draw-bar and yoke connection. J. F. O'Connor. No. 918,583; Apr. 20; Sp. p. 3308; Gaz. vol. 141; p. 601.  
 Railway, Electric. W. G. Roome. No. 921,740; May 18; Sp. p. 3336; Gaz. vol. 142; p. 603.  
 Railway electric block system. C. H. Shaffer. No. 914,461; Mar. 9; Sp. p. 1703; Gaz. vol. 140; p. 292.  
 Railway electric signal. A. C. Carey. No. 935,892; Oct. 5; Sp. p. 625; Gaz. vol. 147; p. 96.  
 Railway electric signaling system. J. S. Holliday. No. 917,763; Apr. 13; Sp. p. 1610; Gaz. vol. 141; p. 299.  
 Railway electric switch. R. B. Bryant. No. 943,809; Dec. 21; Sp. p. 3825; Gaz. vol. 149; p. 665.  
 Railway electric switching device. R. V. Cheatham. No. 917,541; Apr. 6; Sp. p. 1140; Gaz. vol. 141; p. 199.  
 Railway, Elevated suspended-track automotor-. F. E. Felts. No. 928,435; July 20; Sp. p. 3603; Gaz. vol. 144; p. 637.  
 Railway-fastener. C. H. Cornell. No. 943,520; Dec. 14; Sp. p. 3191; Gaz. vol. 149; p. 537.  
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 Railway fence and gate. C. S. Shute. No. 933,857; Sept. 14; Sp. p. 1830; Gaz. vol. 146; p. 302.  
 Railway fish-plate. J. A. Belk. No. 927,932; July 13; Sp. p. 2574; Gaz. vol. 144; p. 438.  
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 Railway-frog. C. W. Reineohl and B. L. Weaver. No. 912,619; Feb. 16; Sp. p. 3309; Gaz. vol. 139; p. 593.  
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 Railway-frog. T. M. Hopper. No. 926,488; June 29; Sp. p. 7077; Gaz. vol. 143; p. 1248.  
 Railway-frog. G. C. Lucas. No. 926,990; July 6; Sp. p. 580; Gaz. vol. 144; p. 96.  
 Railway-frog. B. J. Morgan. No. 931,073; Aug. 17; Sp. p. 3061; Gaz. vol. 145; p. 536.  
 Railway-frog. J. H. Laney. No. 933,040; Aug. 31; Sp. p. 7181; Gaz. vol. 145; p. 1232.  
 Railway-frog. E. C. Price and W. H. Thomas. No. 934,213; Sept. 14; Sp. p. 2530; Gaz. vol. 146; p. 418.  
 Railway-frog. H. K. Hitchcock. No. 935,205; Sept. 28; Sp. p. 4487; Gaz. vol. 146; p. 798.  
 Railway-frog. J. A. Foster. No. 940,523; Nov. 16; Sp. p. 4621; Gaz. vol. 148; p. 770.  
 Railway-frog. H. G. Elfborg. No. 940,863; Nov. 23; Sp. p. 5361; Gaz. vol. 148; p. 909.  
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 Railway frog and crossing. E. R. Kent. No. 919,728; Apr. 27; Sp. p. 5936; Gaz. vol. 141; p. 1019.  
 Railway frog and switch. A. L. McMasters. No. 917,737; Apr. 6; Sp. p. 1509; Gaz. vol. 141; p. 264.  
 Railway frog safety device. J. T. Watson. No. 944,754; Dec. 28; Sp. p. 5885; Gaz. vol. 149; p. 1014.  
 Railway-gate. J. G. O. and I. D. Combs. No. 908,749; Jan. 5; Sp. p. 681; Gaz. vol. 138; p. 106.  
 Railway-gate. E. M. Buchannan. No. 918,653; Apr. 20; Sp. p. 3505; Gaz. vol. 141; p. 626.  
 Railway-gate. R. Spurlock. No. 924,290; June 8; Sp. p. 2612; Gaz. vol. 143; p. 425.  
 Railway-gate. D. A. Hall. No. 926,113; June 29; Sp. p. 6337; Gaz. vol. 143; p. 1125.  
 Railway-gate. E. L. Kishpaugh. No. 942,783; Dec. 7; Sp. p. 1551; Gaz. vol. 149; p. 255.  
 Railway-gate, Automatic. M. H. McCoy. No. 916,580; Mar. 30; Sp. p. 5953; Gaz. vol. 140; p. 1068.  
 Railway-gate, Automatic. B. L. Hancock. No. 919,163; Apr. 20; Sp. p. 4540; Gaz. vol. 141; p. 794.  
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 Railway guard-iron, Elevated-. D. M. Pfautz and J. L. Luckenbach. No. 915,374; Mar. 16; Sp. p. 3535; Gaz. vol. 140; p. 617.  
 Railway guard-rail fastening. J. J. O'Donnell. No. 916,187; Mar. 23; Sp. p. 5154; Gaz. vol. 140; p. 912.  
 Railway insulated switch-bar. G. W. Whiteman and C. W. Reineohl. No. 932,208; Aug. 24; Sp. p. 5485; Gaz. vol. 145; p. 934.  
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 Railway-joint. G. W. Amos. No. 941,604; Nov. 30; Sp. p. 6943; Gaz. vol. 148; p. 1175.  
 Railway-joint. J. S. Skaala and E. H. Hilliard. No. 944,157; Dec. 21; Sp. p. 4564; Gaz. vol. 149; p. 783.  
 Railway journal-box and truck-frame. L. G. Woods. No. 933,809; Sept. 14; Sp. p. 1721; Gaz. vol. 146; p. 286.  
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 Railway-motors, Current-controlling mechanism for. A. B. Stitzer. No. 929,338; July 27; Sp. p. 5505; Gaz. vol. 144; p. 965.  
 Railway-motors, Current-controlling mechanism for. A. B. Stitzer. No. 929,339; July 27; Sp. p. 5509; Gaz. vol. 144; p. 966.  
 Railway noise-deadening means. C. E. Lewis, J. M. Thomas, and S. C. Jones. No. 912,141; Feb. 9; Sp. p. 2274; Gaz. vol. 139; p. 394.  
 Railway or track for purposes of amusement. H. H. Martyne. No. 914,058; Mar. 2; Sp. p. 870; Gaz. vol. 140; p. 135.  
 Railway overhead-line construction, Electric-. T. Varney. No. 931,354; Aug. 17; Sp. p. 3671; Gaz. vol. 145; p. 634.  
 Railway-platform guard. H. C. Heffner. No. 909,791; Jan. 12; Sp. p. 2736; Gaz. vol. 138; p. 482.



*Alphabetical list of inventions—Continued.*

- Railway-platform safety fence and gate. C. S. Shute. No. 915,122; Mar. 16; Sp. p. 3038; Gaz. vol. 140; p. 536.
- Railway, Pleasure-. J. S. Paul. No. 913,046; Feb. 23; Sp. p. 4184; Gaz. vol. 139; p. 757.
- Railway, Pleasure-. J. W. Rehling. No. 915,382; Mar. 16; Sp. p. 3562; Gaz. vol. 140; p. 621.
- Railway, Pleasure-. A. G. Sherk. No. 922,052; May 18; Sp. p. 4037; Gaz. vol. 142; p. 706.
- Railway, Pleasure-. W. F. Mangels. No. 925,818; June 22; Sp. p. 5728; Gaz. vol. 143; p. 993.
- Railway, Pleasure-. F. R. and R. B. Fageol. No. 927,517; July 13; Sp. p. 1677; Gaz. vol. 144; p. 299.
- Railway, Pleasure-. C. H. McGiehan. No. 929,972; Aug. 3; Sp. p. 738; Gaz. vol. 145; p. 118.
- Railway, Pleasure-. C. M. Perdew. No. 931,705; Aug. 17; Sp. p. 4393; Gaz. vol. 145; p. 746.
- Railway, Pleasure-. J. A. Miller. No. 937,456; Oct. 19; Sp. p. 3898; Gaz. vol. 147; p. 663.
- Railway, Pleasure-. H. Whiting. No. 938,404; Oct. 26; Sp. p. 5899; Gaz. vol. 147; p. 1001.
- Railway-point locking mechanism. A. S. Bröchner-Larsen and O. P. Krogh. No. 925,800; June 22; Sp. p. 5695; Gaz. vol. 143; p. 987.
- Railway portable couch. E. Berlinger. No. 918,266; Apr. 13; Sp. p. 2658; Gaz. vol. 141; p. 471.
- Railway protective system, Electric-. A. C. Eastwood. No. 908,650; Jan. 5; Sp. p. 474; Gaz. vol. 138; p. 74.
- Railway-rail. R. A. Hadfield. No. 911,237; Feb. 2; Sp. p. 430; Gaz. vol. 139; p. 74.
- Railway-rail. J. C. Flynn. No. 921,533; May 11; Sp. p. 2949; Gaz. vol. 142; p. 507.
- Railway-rail. C. A. Alden. No. 925,261; June 15; Sp. p. 4580; Gaz. vol. 143; p. 783.
- Railway-rail. H. C. Grant. No. 932,464; Aug. 31; Sp. p. 5988; Gaz. vol. 145; p. 1041.
- Railway-rail. C. E. Neubauer. No. 934,338; Sept. 14; Sp. p. 2764; Gaz. vol. 146; p. 459.
- Railway-rail. J. Huntington. No. 940,320; Nov. 16; Sp. p. 4159; Gaz. vol. 148; p. 702.
- Railway-rail. S. W. Lyman. No. 941,580; Nov. 30; Sp. p. 6895; Gaz. vol. 148; p. 1167.
- Railway-rail anchor. J. M. Scott. No. 938,716; Nov. 2; Sp. p. 583; Gaz. vol. 148; p. 91.
- Railway rail and crossing. C. W. Reinoehl and B. L. Weaver. No. 912,620; Feb. 16; Sp. p. 3311; Gaz. vol. 139; p. 593.
- Railway-rail and other joints, Securing and safety device for. J. T. Neddall. No. 934,982; Sept. 21; Sp. p. 4038; Gaz. vol. 146; p. 701.
- Railway-rail anticreeping device. L. J. Spaulding. No. 917,177; Apr. 6; Sp. p. 436; Gaz. vol. 141; p. 76.
- Railway-rail bearing. J. T. Richards. No. 916,489; Mar. 30; Sp. p. 5760; Gaz. vol. 140; p. 1038.
- Railway-rail bed. C. M. Culp. No. 926,547; June 29; Sp. p. 7178; Gaz. vol. 143; p. 1268.
- Railway rail-bonds, Guard for electric-. J. J. Sapper and J. G. Brueggemann. No. 915,797; Mar. 23; Sp. p. 4427; Gaz. vol. 140; p. 786.
- Railway-rail brace. E. J. Anthony. No. 941,693; Nov. 30; Sp. p. 7139; Gaz. vol. 148; p. 1205.
- Railway-rail-driving device. A. F. Fiala. No. 914,937; Mar. 9; Sp. p. 2669; Gaz. vol. 140; p. 448.
- Railway-rail fastener. M. L. Byers. No. 928,496; July 20; Sp. p. 3728; Gaz. vol. 144; p. 636.
- Railway-rail fastening. C. Knopf. No. 924,908; June 15; Sp. p. 3897; Gaz. vol. 143; p. 664.
- Railway-rail-fastening device. J. Timms. No. 934,583; Sept. 21; Sp. p. 3239; Gaz. vol. 146; p. 564.
- Railway-rail joint. M. J. and R. A. Drummond. No. 908,978; Jan. 5; Sp. p. 1138; Gaz. vol. 138; p. 180.
- Railway-rail joint. W. R. Drake and H. J. Pierce. No. 909,770; Jan. 12; Sp. p. 2689; Gaz. vol. 138; p. 475.
- Railway-rail joint. M. J. O'Connor. No. 913,839; Mar. 2; Sp. p. 338; Gaz. vol. 140; p. 57.
- Railway-rail joint. O. V. Berkeley. No. 919,681; Apr. 27; Sp. p. 5846; Gaz. vol. 141; p. 1003.
- Railway-rail joint. P. McGinley. No. 923,876; June 8; Sp. p. 1743; Gaz. vol. 143; p. 290.
- Railway-rail joint. G. Wilson. No. 927,305; July 6; Sp. p. 1228; Gaz. vol. 144; p. 202.
- Railway-rail joint. J. A. Jones and W. H. Gill. No. 927,411; July 6; Sp. p. 1418; Gaz. vol. 144; p. 236.
- Railway-rail joint. J. Jordan. No. 932,614; Aug. 31; Sp. p. 6338; Gaz. vol. 145; p. 1093.
- Railway-rail joint. A. I. Gaumer. No. 932,979; Aug. 31; Sp. p. 7045; Gaz. vol. 145; p. 1211.
- Railway-rail joint. A. P. Finley. No. 938,467; Nov. 2; Sp. p. 29; Gaz. vol. 148; p. 7.
- Railway-rail joint. H. T. Fiske. No. 939,239; Nov. 9; Sp. p. 1717; Gaz. vol. 148; p. 298.
- Railway-rail joint. W. Wallace. No. 939,358; Nov. 9; Sp. p. 2016; Gaz. vol. 148; p. 340.
- Railway-rail joint. R. S. Du Bose. No. 939,814; Nov. 9; Sp. p. 3012; Gaz. vol. 148; p. 496.
- Railway-rail-joint bolt-holder. C. Rahmgren. No. 921,281; May 11; Sp. p. 2435; Gaz. vol. 142; p. 423.
- Railway-rail-joint fastening. C. Dreibuss and A. F. Kulage. No. 934,960; Sept. 21; Sp. p. 3989; Gaz. vol. 146; p. 693.
- Railway-rail-locking mechanism. E. J. Anthony. No. 941,692; Nov. 30; Sp. p. 7137; Gaz. vol. 148; p. 1204.
- Railway-rail, Renewable-head. R. B. Davis. No. 923,150; June 1; Sp. p. 67; Gaz. vol. 143; p. 10.
- Railway-rail, Sectional. C. Allison. No. 918,640; Apr. 20; Sp. p. 3452; Gaz. vol. 141; p. 622.
- Railway-rail stay. W. H. Cotton and T. D. Henderson. No. 915,558; Mar. 16; Sp. p. 3932; Gaz. vol. 140; p. 678.
- Railway-rail spike and chair. J. T. Nulty. No. 942,658; Dec. 7; Sp. p. 1304; Gaz. vol. 149; p. 213.
- Railway-rail splice. I. N. Prenovich. No. 943,619; Dec. 14; Sp. p. 3424; Gaz. vol. 149; p. 571.
- Railway-rail structure. E. S. Nethercut. No. 940,818; Nov. 23; Sp. p. 5274; Gaz. vol. 148; p. 894.
- Railway-rail support. C. W. Reinoehl and B. L. Weaver. No. 925,227; June 15; Sp. p. 4529; Gaz. vol. 143; p. 773.
- Railway-rail support. W. H. Cotton and T. D. Henderson. No. 928,942; July 27; Sp. p. 4635; Gaz. vol. 144; p. 832.
- Railway-rail support. A. Neuss. No. 938,166; Oct. 26; Sp. p. 5382; Gaz. vol. 147; p. 918.
- Railway-rail tie and brace. H. O. Wert. No. 941,217; Nov. 23; Sp. p. 6129; Gaz. vol. 148; p. 1027.
- Railway-rail tie and fastening. J. C. Denham. No. 929,403; July 27; Sp. p. 5622; Gaz. vol. 144; p. 986.
- Railway-rail tie and rail-fastening. J. Timms. No. 928,008; July 13; Sp. p. 2710; Gaz. vol. 144; p. 462.
- Railway-rail tie-bar. J. H. Crowley. No. 914,806; Mar. 9; Sp. p. 2417; Gaz. vol. 140; p. 406.
- Railway-rail tie, Composite. H. G. Hill. No. 935,983; Oct. 5; Sp. p. 817; Gaz. vol. 147; p. 121.
- Railway-rail tie, Metallic. J. A. Beach and J. D. Cunningham. No. 927,210; July 6; Sp. p. 1056; Gaz. vol. 144; p. 171.
- Railway-rails, Anticreeper for. C. Wenzell. No. 929,061; July 27; Sp. p. 4883; Gaz. vol. 144; p. 871.
- Railway-rails, Anticreeping device for. D. F. Vaughan. No. 923,388; June 1; Sp. p. 642; Gaz. vol. 143; p. 92.
- Railway-rails, Device for preventing creeping of. E. M. Smith. No. 918,603; Apr. 20; Sp. p. 3349; Gaz. vol. 141; p. 609.
- Railway-rails from spreading, Device to prevent. W. H. Walters. No. 921,572; May 11; Sp. p. 3023; Gaz. vol. 142; p. 519.
- Railway-rails, &c., in the welding process, Clamping apparatus for clamping and butting. H. Goldschmidt and F. Lange. No. 925,630; June 22; Sp. p. 5300; Gaz. vol. 143; p. 932.
- Railway-rails, Laying renewable-head. R. B. Davis. No. 926,105; June 29; Sp. p. 6321; Gaz. vol. 143; p. 1122.
- Railway-rails, Nut-holder and joint-supporter for. G. W. Henry, Sr. No. 943,543; Dec. 14; Sp. p. 3236; Gaz. vol. 149; p. 545.
- Railway-rails to metallic ties, Device for securing. J. Phelan. No. 921,277; May 11; Sp. p. 2428; Gaz. vol. 142; p. 422.
- Railway-rails upgrade, Power-rigging for pushing. J. C. Brown. No. 930,643; Aug. 10; Sp. p. 2103; Gaz. vol. 145; p. 367.
- Railway-road-bed construction. C. R. Holden. No. 933,073; Sept. 7; Sp. p. 69; Gaz. vol. 146; p. 12.
- Railway-road-bed construction. C. R. Holden. No. 933,074; Sept. 7; Sp. p. 71; Gaz. vol. 146; p. 12.
- Railway-road-bed-grading apparatus. H. B. Earling. No. 913,109; Feb. 23; Sp. p. 4296; Gaz. vol. 139; p. 779.
- Railway rolling-stock against injury, Means for protecting the operatives of. D. E. Lahey and G. R. Williams. No. 909,618; Jan. 12; Sp. p. 2392; Gaz. vol. 138; p. 424.
- Railway safety appliances. T. McGuire. No. 912,017; Feb. 9; Sp. p. 2039; Gaz. vol. 139; p. 355.
- Railway safety appliance. C. J. Kintner. No. 915,188; Mar. 16; Sp. p. 3174; Gaz. vol. 140; p. 557.
- Railway safety appliance. J. T. Andrew. No. 941,222; Nov. 23; Sp. p. 6138; Gaz. vol. 148; p. 1029.
- Railway safety appliance, Mine-. N. W. Dickerson. No. 911,298; Feb. 2; Sp. p. 548; Gaz. vol. 139; p. 93.
- Railway safety appliances, Automatic stop for. J. C. Mock. No. 918,887; Apr. 20; Sp. p. 4019; Gaz. vol. 141; p. 705.
- Railway safety-brake device. J. F. Howard. No. 912,846; Feb. 16; Sp. p. 3794; Gaz. vol. 139; p. 668.
- Railway safety device. J. W. Ledwon. No. 924,910; June 15; Sp. p. 3900; Gaz. vol. 143; p. 665.
- Railway safety device. S. H. Harrington. No. 927,041; July 6; Sp. p. 717; Gaz. vol. 144; p. 113.
- Railway safety device. G. W. Weber and W. J. Montgomery. No. 927,909; July 13; Sp. p. 2523; Gaz. vol. 144; p. 430.
- Railway safety device. J. C. Day. No. 931,733; Aug. 24; Sp. p. 4470; Gaz. vol. 145; p. 778.
- Railway safety device. O. J. Berend. No. 939,201; Nov. 9; Sp. p. 1621; Gaz. vol. 148; p. 286.
- Railway safety system. J. W. Sharp. No. 926,214; June 29; Sp. p. 6571; Gaz. vol. 143; p. 1160.
- Railway safety system, Electric-. C. J. Kintner. No. 915,189; Mar. 16; Sp. p. 3183; Gaz. vol. 140; p. 557.
- Railway selective apparatus. S. R. Wright and C. L. Deihle. No. 928,571; July 20; Sp. p. 3892; Gaz. vol. 144; p. 680.
- Railway selective signaling device. S. R. Wright. No. 928,570; July 20; Sp. p. 3887; Gaz. vol. 144; p. 679.
- Railway semaphore-signal, Dwarf. H. M. Abernethy. No. 936,283; Oct. 12; Sp. p. 1403; Gaz. vol. 147; p. 243.
- Railway signal. W. H. Jordan and G. T. Hanchett. No. 910,387; Jan. 19; Sp. p. 3992; Gaz. vol. 138; p. 717.
- Railway signal. H. A. Hoischen. No. 914,412; Mar. 9; Sp. p. 1616; Gaz. vol. 140; p. 276.
- Railway signal. C. J. Kintner. No. 915,190; Mar. 16; Sp. p. 3193; Gaz. vol. 140; p. 558.
- Railway signal. J. S. Hobson. No. 926,743; July 6; Sp. p. 77; Gaz. vol. 144; p. 11.
- Railway signal. J. S. Hobson. No. 926,870; July 6; Sp. p. 350; Gaz. vol. 144; p. 56.
- Railway signal. W. J. Rader. No. 928,328; July 20; Sp. p. 3419; Gaz. vol. 144; p. 601.
- Railway signal. S. T. Harvel. No. 929,214; July 27; Sp. p. 5197; Gaz. vol. 144; p. 922.
- Railway signal. B. E. Andress. No. 931,666; Aug. 17; Sp. p. 4285; Gaz. vol. 145; p. 732.



*Alphabetical list of inventions—Continued.*

- Railway-signal. W. W. Salmon. No. 934,631; Sept. 21; Sp. p. 3350; Gaz. vol. 146; p. 583.  
 Railway-signal. C. W. Coleman. No. 934,996; Sept. 28; Sp. p. 4074; Gaz. vol. 146; p. 730.  
 Railway-signal. A. C. Mather. No. 935,215; Sept. 28; Sp. p. 4508; Gaz. vol. 146; p. 802.  
 Railway-signal. L. E. Garnett. No. 940,800; Nov. 23; Sp. p. 5237; Gaz. vol. 148; p. 889.  
 Railway-signal. W. J. Simpson. No. 944,246; Dec. 21; Sp. p. 4730; Gaz. vol. 149; p. 810.  
 Railway signal and train-controlling mechanism. E. E. Flora and R. J. Zorge. No. 912,662; Feb. 16; Sp. p. 3379; Gaz. vol. 139; p. 606.  
 Railway signal and train-controlling mechanism. E. E. Flora and R. J. Zorge. No. 925,322; June 15; Sp. p. 4691; Gaz. vol. 143; p. 801.  
 Railway signal device, Automatic. J. W. Johnson. No. 923,793; June 1; Sp. p. 1554; Gaz. vol. 143; p. 232.  
 Railway-signal, Electric. W. J. Ashley. No. 917,703; Apr. 6; Sp. p. 1441; Gaz. vol. 141; p. 253.  
 Railway-signal, Electric. H. J. and F. T. Jones. No. 920,577; May 4; Sp. p. 976; Gaz. vol. 142; p. 159.  
 Railway-signal, Electric. W. A. D. Short. No. 923,901; June 8; Sp. p. 1787; Gaz. vol. 143; p. 298.  
 Railway signal-fusee. F. Dutcher. No. 930,163; Aug. 3; Sp. p. 1140; Gaz. vol. 145; p. 185.  
 Railway-signal-operating apparatus. C. J. Coleman. No. 915,741; Mar. 23; Sp. p. 4325; Gaz. vol. 140; p. 769.  
 Railway-signal-operating device. A. S. Hickley. No. 924,227; June 8; Sp. p. 2490; Gaz. vol. 143; p. 404.  
 Railway-signal safety-stop-signal attachment. J. M. Moore and F. F. Kamp, Jr. No. 913,536; Feb. 23; Sp. p. 5172; Gaz. vol. 139; p. 922.  
 Railway signal system. C. E. Duffie. No. 910,184; Jan. 19; Sp. p. 3539; Gaz. vol. 138; p. 644.  
 Railway signal system. R. B. Davis. No. 911,118; Feb. 2; Sp. p. 183; Gaz. vol. 139; p. 35.  
 Railway signal system, Electric. C. M. Cleavland. No. 925,622; June 22; Sp. p. 5282; Gaz. vol. 143; p. 928.  
 Railway signal system, Electric. Y. Burgess. No. 926,687; June 29; Sp. p. 7454; Gaz. vol. 143; p. 1314.  
 Railway signal system, Wireless. E. R. Brodton. No. 936,405; Oct. 12; Sp. p. 1679; Gaz. vol. 147; p. 285.  
 Railway signal-torpedo. F. Dutcher. No. 928,114; July 13; Sp. p. 2909; Gaz. vol. 144; p. 497.  
 Railway signal-torpedo. F. Dutcher. No. 929,410; July 27; Sp. p. 5633; Gaz. vol. 144; p. 988.  
 Railway-signals. Track device for. M. M. Kane. No. 929,444; July 27; Sp. p. 5680; Gaz. vol. 144; p. 998.  
 Railway signaling. L. M. Bracewell. No. 910,454; Jan. 19; Sp. p. 4136; Gaz. vol. 138; p. 741.  
 Railway signaling. S. D. Strohm. No. 916,896; Mar. 30; Sp. p. 6527; Gaz. vol. 140; p. 1166.  
 Railway signaling apparatus. F. F. Brush. No. 939,974; Nov. 16; Sp. p. 3356; Gaz. vol. 148; p. 580.  
 Railway signaling apparatus. W. J. Cook. No. 940,787; Nov. 23; Sp. p. 5210; Gaz. vol. 148; p. 884.  
 Railway signaling apparatus, Electric. W. J. Cook. No. 939,984; Nov. 16; Sp. p. 3385; Gaz. vol. 148; p. 583.  
 Railway signaling device. S. H. Harrington. No. 918,540; Apr. 20; Sp. p. 3224; Gaz. vol. 141; p. 588.  
 Railway signaling means. T. W. Stange. No. 914,611; Mar. 9; Sp. p. 2005; Gaz. vol. 140; p. 342.  
 Railway signaling means. R. J. Marshall and W. H. Penman. No. 917,632; Apr. 6; Sp. p. 1304; Gaz. vol. 141; p. 230.  
 Railway signaling mechanism. L. H. Craft. No. 910,911; Jan. 26; Sp. p. 5062; Gaz. vol. 138; p. 912.  
 Railway signaling, &c., Signal-light for. S. H. Harrington. No. 918,541; Apr. 20; Sp. p. 3228; Gaz. vol. 141; p. 589.  
 Railway signaling system. C. J. Coleman. No. 916,674; Mar. 30; Sp. p. 6127; Gaz. vol. 140; p. 1098.  
 Railway signaling system. M. W. Zabel. No. 917,830; Apr. 13; Sp. p. 1743; Gaz. vol. 141; p. 321.  
 Railway signaling system. W. G. Roome. No. 920,654; May 4; Sp. p. 1132; Gaz. vol. 142; p. 184.  
 Railway signaling system. J. M. Waldron. No. 921,758; May 18; Sp. p. 3425; Gaz. vol. 142; p. 610.  
 Railway signaling system. T. M. Dougal and J. M. Chambers. No. 941,263; Nov. 23; Sp. p. 6210; Gaz. vol. 148; p. 1042.  
 Railway signaling system, Automatic. G. H. Sloane. No. 942,468; Dec. 7; Sp. p. 921; Gaz. vol. 149; p. 149.  
 Railway signaling system, Electric. F. Lacroix. No. 925,353; June 15; Sp. p. 4747; Gaz. vol. 143; p. 810.  
 Railway signaling system, Electrical. C. Randall. No. 924,968; June 15; Sp. p. 4027; Gaz. vol. 143; p. 686.  
 Railway-sleeper, Reinforced-concrete. M. Brukner. No. 912,227; Feb. 9; Sp. p. 2430; Gaz. vol. 139; p. 419.  
 Railway-sleeper with special fixing device, Reinforced-concrete. B. Sani. No. 928,617; July 20; Sp. p. 3986; Gaz. vol. 144; p. 695.  
 Railway, Sliding. C. Thery. No. 930,244; Aug. 3; Sp. p. 1276; Gaz. vol. 145; p. 210.  
 Railway smoke and dust arrester. E. V. Estill. No. 909,384; Jan. 12; Sp. p. 1930; Gaz. vol. 138; p. 344.  
 Railway snow-plow. O. F. Files. No. 910,186; Jan. 19; Sp. p. 3546; Gaz. vol. 138; p. 645.  
 Railway-spike. T. J. Akers. No. 909,509; Jan. 12; Sp. p. 2184; Gaz. vol. 138; p. 387.  
 Railway-spike. E. L. Eastling. No. 910,364; Jan. 19; Sp. p. 3948; Gaz. vol. 138; p. 710.  
 Railway-spike. G. F. Garrity. No. 915,586; Mar. 16; Sp. p. 3981; Gaz. vol. 140; p. 687.  
 Railway-spike. G. K. Hoff. No. 916,153; Mar. 23; Sp. p. 5093; Gaz. vol. 140; p. 901.  
 Railway-spike. A. McLellan. No. 919,062; Apr. 20; Sp. p. 4359; Gaz. vol. 141; p. 761.  
 Railway-spike. C. L. Columbia. No. 931,272; Aug. 17; Sp. p. 3496; Gaz. vol. 143; p. 605.  
 Railway-spike. C. K. Butts. No. 933,743; Sept. 14; Sp. p. 1613; Gaz. vol. 146; p. 265.  
 Railway-spike. F. B. Kobert. No. 938,875; Nov. 2; Sp. p. 924; Gaz. vol. 148; p. 146.  
 Railway-spike. R. L. Smith. No. 942,668; Dec. 7; Sp. p. 1321; Gaz. vol. 149; p. 217.  
 Railway spike and lock. J. M. Jones. No. 922,483; May 25; Sp. p. 4908; Gaz. vol. 142; p. 874.  
 Railway-spiques, &c., Means for fastening in position. G. Lakhovsky. No. 909,619; Jan. 12; Sp. p. 2395; Gaz. vol. 138; p. 424.  
 Railway steel tie. A. T. Charlier. No. 916,419; Mar. 30; Sp. p. 5602; Gaz. vol. 140; p. 1015.  
 Railway structure. C. W. Reinohl and B. L. Weaver. No. 921,887; May 18; Sp. p. 3695; Gaz. vol. 142; p. 652.  
 Railway, Suspended. L. Hinderland. No. 919,352; Apr. 27; Sp. p. 5130; Gaz. vol. 141; p. 890.  
 Railway, Suspended. I. D. Davison. No. 929,196; July 27; Sp. p. 5169; Gaz. vol. 144; p. 916.  
 Railway, Suspended. R. Petersen. No. 935,859; Oct. 5; Sp. p. 560; Gaz. vol. 147; p. 80.  
 Railway-switch. W. P. Finley. No. 908,554; Jan. 5; Sp. p. 259; Gaz. vol. 138; p. 43.  
 Railway-switch. E. Rush. No. 909,682; Jan. 12; Sp. p. 2513; Gaz. vol. 138; p. 446.  
 Railway-switch. W. Boon. No. 910,352; Jan. 19; Sp. p. 3928; Gaz. vol. 138; p. 706.  
 Railway-switch. A. C. Mather. No. 912,480; Feb. 16; Sp. p. 3000; Gaz. vol. 139; p. 542.  
 Railway-switch. G. Lange. No. 912,861; Feb. 16; Sp. p. 3815; Gaz. vol. 139; p. 672.  
 Railway-switch. H. Reed. No. 914,976; Mar. 9; Sp. p. 2732; Gaz. vol. 140; p. 460.  
 Railway-switch. G. A. Uggeldahl. No. 915,129; Mar. 16; Sp. p. 3072; Gaz. vol. 140; p. 538.  
 Railway-switch. J. Williams. No. 916,082; Mar. 23; Sp. p. 4956; Gaz. vol. 140; p. 878.  
 Railway-switch. A. Casale and W. Partello. No. 919,692; Apr. 27; Sp. p. 5870; Gaz. vol. 141; p. 1008.  
 Railway-switch. C. W. Reinohl and B. L. Weaver. No. 919,950; Apr. 27; Sp. p. 6387; Gaz. vol. 141; p. 1092.  
 Railway-switch. C. T. Stacks. No. 920,206; May 4; Sp. p. 233; Gaz. vol. 142; p. 37.  
 Railway-switch. R. B. Swank. No. 920,214; May 4; Sp. p. 247; Gaz. vol. 142; p. 39.  
 Railway-switch. R. L. Brewer. No. 922,661; May 25; Sp. p. 5280; Gaz. vol. 142; p. 934.  
 Railway-switch. G. J. Ahry. No. 923,926; June 8; Sp. p. 1830; Gaz. vol. 143; p. 305.  
 Railway-switch. W. A. Guyon. No. 924,455; June 8; Sp. p. 2930; Gaz. vol. 143; p. 479.  
 Railway-switch. D. E. Broadwater. No. 924,629; June 15; Sp. p. 3312; Gaz. vol. 143; p. 570.  
 Railway-switch. F. Zele. No. 924,717; June 15; Sp. p. 3490; Gaz. vol. 143; p. 600.  
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 Railway-switch. C. W. Reinohl and M. W. Long. No. 925,228; June 15; Sp. p. 4551; Gaz. vol. 143; p. 773.  
 Railway-switch. F. H. Kaiser. No. 925,343; June 15; Sp. p. 4721; Gaz. vol. 143; p. 806.  
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 Railway-switch. C. W. Reinohl and M. W. Long. No. 925,726; June 22; Sp. p. 5511; Gaz. vol. 143; p. 961.  
 Railway-switch. P. McGrath. No. 926,816; July 6; Sp. p. 218; Gaz. vol. 144; p. 37.  
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 Railway switch and signal. T. L. King. No. 908,578; Jan. 5; Sp. p. 304; Gaz. vol. 138; p. 51.  
 Railway switch and signal. W. N. Carroll. No. 920,267; May 4; Sp. p. 389; Gaz. vol. 142; p. 58.  
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 Railway-switch, Automatic. J. B. Turner. No. 929,053; July 27; Sp. p. 4858; Gaz. vol. 144; p. 869.  
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 Railway-switch, Automatic frogless. J. A. Moore. No. 934,086; Sept. 14; Sp. p. 2282; Gaz. vol. 146; p. 374.  
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 Railway switch-locking system. G. W. Nistle, B. W. Brady, and E. Inskip. No. 928,272; July 20; Sp. p. 3290; Gaz. vol. 144; p. 582.  
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 Railway-switch mechanism. B. Legault. No. 939,279; Nov. 9; Sp. p. 1804; Gaz. vol. 148; p. 312.  
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 Railway-switch-operating mechanism. J. F. Blackwood. No. 923,802; June 8; Sp. p. 1602; Gaz. vol. 143; p. 265.  
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 Railway-switch stand. O. B. Grant. No. 932,859; Aug. 31; Sp. p. 6829; Gaz. vol. 145; p. 1172.  
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 Railway-switches, Device to turn. S. Ordóñez and L. Katz. No. 938,889; Nov. 2; Sp. p. 952; Gaz. vol. 148; p. 151.  
 Railway-switches, Electric signal for. F. Zele. No. 929,363; July 27; Sp. p. 5555; Gaz. vol. 144; p. 974.  
 Railway-switches, Manufacture of slide-plates for. R. J. Davidson. No. 941,623; Nov. 30; Sp. p. 6983; Gaz. vol. 148; p. 1182.  
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 Railway systems, Rall for monorail-. E. P. Dargin. No. 933,294; Sept. 7; Sp. p. 597; Gaz. vol. 146; p. 92.  
 Railway tamping-machine. J. E. Farrell and W. A. Meehan. No. 913,716; Mar. 2; Sp. p. 83; Gaz. vol. 140; p. 15.  
 Railway-tariff. A. W. Standing. No. 932,827; Aug. 31; Sp. p. 6776; Gaz. vol. 145; p. 1162.  
 Railway tariffs, circulars, &c., Filing means for. W. G. Spangle and G. W. Parsons. No. 909,245; Jan. 12; Sp. p. 1666; Gaz. vol. 138; p. 300.  
 Railway-tie. W. McCloy. No. 908,485; Jan. 5; Sp. p. 103; Gaz. vol. 138; p. 20.  
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 Railway-tie. L. J. Riegler. No. 912,731; Feb. 16; Sp. p. 3573; Gaz. vol. 139; p. 631.  
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 Railway-tie. H. H. Ashlock. No. 916,964; Apr. 6; Sp. p. 6; Gaz. vol. 141; p. 4.  
 Railway-tie. H. Hille. No. 917,065; Apr. 6; Sp. p. 206; Gaz. vol. 141; p. 38.  
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 Railway-tie. J. Hornung. No. 918,554; Apr. 20; Sp. p. 3252; Gaz. vol. 141; p. 592.  
 Railway-tie. W. Lenihan. No. 919,442; Apr. 27; Sp. p. 5330; Gaz. vol. 141; p. 921.  
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 Railway-tie. L. F. Exner. No. 922,569; May 25; Sp. p. 5091; Gaz. vol. 142; p. 903.  
 Railway-tie. E. S. and C. G. Michael. No. 924,563; June 8; Sp. p. 3149; Gaz. vol. 143; p. 514.  
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 Railway-tie. R. G. Bullard. No. 927,324; July 6; Sp. p. 1259; Gaz. vol. 144; p. 208.  
 Railway-tie. J. Staats. No. 928,479; July 20; Sp. p. 3703; Gaz. vol. 144; p. 651.  
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 Railway-tie. J. F. Schneider. No. 931,226; Aug. 17; Sp. p. 3393; Gaz. vol. 145; p. 588.  
 Railway-tie. H. Hille. No. 932,781; Aug. 31; Sp. p. 6690; Gaz. vol. 145; p. 1148.  
 Railway-tie. R. R. Canfield. No. 933,417; Sept. 7; Sp. p. 857; Gaz. vol. 146; p. 134.  
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 Railway-tie. J. C. Pearce. No. 944,815; Dec. 28; Sp. p. 6011; Gaz. vol. 149; p. 1035.  
 Railway-tie and chair combined. S. A. Ross. No. 913,238; Feb. 23; Sp. p. 4579; Gaz. vol. 139; p. 821.  
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 Railway-tie and cushion. E. H. Johnson. No. 935,307; Sept. 28; Sp. p. 4686; Gaz. vol. 146; p. 832.  
 Railway-tie and fastener. H. A. Bamberger. No. 924,414; June 8; Sp. p. 2853; Gaz. vol. 143; p. 466.  
 Railway-tie and fastener. E. E. Baker. No. 935,243; Sept. 28; Sp. p. 4564; Gaz. vol. 146; p. 812.  
 Railway-tie and fastener, Metallic. S. Clary. No. 914,792; Mar. 9; Sp. p. 2395; Gaz. vol. 140; p. 402.  
 Railway-tie and fastening therefor. H. McConaughy. No. 932,409; Aug. 24; Sp. p. 5860; Gaz. vol. 145; p. 1000.  
 Railway-tie and rail. T. J. Gray. No. 944,133; Dec. 21; Sp. p. 4519; Gaz. vol. 149; p. 775.  
 Railway-tie and rail-clamp. W. C. Neel. No. 932,890; Aug. 31; Sp. p. 6889; Gaz. vol. 145; p. 1183.  
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 Railway-tie and rail-fastener. P. E. Fetter and W. A. Stickley. No. 919,334; Apr. 27; Sp. p. 5102; Gaz. vol. 141; p. 885.  
 Railway-tie and rail-fastener. R. C. Shay and F. A. Saleme. No. 919,783; Apr. 27; Sp. p. 6036; Gaz. vol. 141; p. 1037.  
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 Railway-tie and rail-fastener, Combined metallic. J. Voegeli and J. Rosenberg. No. 912,760; Feb. 16; Sp. p. 3638; Gaz. vol. 139; p. 641.  
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 Railway-tie and rail-fastening means, Metal. M. F. McLean. No. 923,370; June 1; Sp. p. 596; Gaz. vol. 143; p. 87.  
 Railway-tie and rail-grip, Steel. J. C. Platt. No. 933,264; Sept. 7; Sp. p. 539; Gaz. vol. 146; p. 82.  
 Railway-tie and rail-joint. C. Jenkins. No. 911,242; Feb. 2; Sp. p. 439; Gaz. vol. 139; p. 75.  
 Railway-tie and viaduct for wires, Combined. A. McArthur. No. 943,700; Dec. 21; Sp. p. 3605; Gaz. vol. 149; p. 627.  
 Railway-tie, Concrete. J. B. Pope. No. 928,472; July 20; Sp. p. 3691; Gaz. vol. 144; p. 649.  
 Railway-tie, Continuous-bearing. A. McArthur. No. 934,561; Sept. 21; Sp. p. 3197; Gaz. vol. 146; p. 557.  
 Railway-tie, Metal. S. McElfatrick. No. 912,151; Feb. 9; Sp. p. 2293; Gaz. vol. 139; p. 397.  
 Railway-tie, Metal. F. Timmons. No. 912,920; Feb. 16; Sp. p. 3917; Gaz. vol. 139; p. 690.  
 Railway-tie, Metal. J. R. Robinson and J. F. Sugrue. No. 914,077; Mar. 2; Sp. p. 904; Gaz. vol. 140; p. 142.  
 Railway-tie, Metal. W. H. Wood. No. 918,110; Apr. 13; Sp. p. 2342; Gaz. vol. 141; p. 419.  
 Railway-tie, Metal. J. J. Pierce, Jr. No. 922,626; May 25; Sp. p. 5208; Gaz. vol. 142; p. 922.  
 Railway-tie, Metal. W. W. Mechlning and J. E. Smith. No. 928,467; July 20; Sp. p. 3683; Gaz. vol. 144; p. 648.  
 Railway-tie, Metal. W. W. Mechlning and J. E. Smith. No. 928,529; July 20; Sp. p. 3800; Gaz. vol. 144; p. 667.  
 Railway-tie, Metal. H. J. Buell. No. 936,519; Oct. 12; Sp. p. 1950; Gaz. vol. 147; p. 322.  
 Railway-tie, Metal. L. J. Sparks. No. 943,048; Dec. 14; Sp. p. 2217; Gaz. vol. 149; p. 376.  
 Railway-tie, Metal-reinforced. J. F. Lahart. No. 942,267; Dec. 7; Sp. p. 508; Gaz. vol. 149; p. 79.  
 Railway-tie, Metal-reinforced. J. F. Lahart. No. 942,268; Dec. 7; Sp. p. 509; Gaz. vol. 149; p. 80.  
 Railway-tie, Metallic. J. E. Raby. No. 909,220; Jan. 12; Sp. p. 1623; Gaz. vol. 138; p. 292.  
 Railway-tie, Metallic. L. C. Sharp. No. 913,985; Mar. 2; Sp. p. 705; Gaz. vol. 140; p. 110.  
 Railway-tie, Metallic. F. H. Kinney. No. 916,451; Mar. 30; Sp. p. 5669; Gaz. vol. 140; p. 1025.  
 Railway-tie, Metallic. M. M. Riley. No. 917,797; Apr. 13; Sp. p. 1675; Gaz. vol. 141; p. 310.  
 Railway-tie, Metallic. K. L. Landgrebe. No. 920,161; May 4; Sp. p. 134; Gaz. vol. 142; p. 21.  
 Railway-tie, Metallic. J. G. Snyder. No. 921,297; May 11; Sp. p. 2459; Gaz. vol. 142; p. 428.  
 Railway-tie, Metallic. J. G. Snyder. No. 921,298; May 11; Sp. p. 2460; Gaz. vol. 142; p. 428.  
 Railway-tie, Metallic. H. W. Snyder and C. M. Cronk. No. 923,307; June 1; Sp. p. 458; Gaz. vol. 143; p. 64.  
 Railway-tie, Metallic. F. H. Kinney. No. 925,705; June 22; Sp. p. 5457; Gaz. vol. 143; p. 954.  
 Railway-tie, Metallic. W. H. Sheckler. No. 929,334; July 27; Sp. p. 5497; Gaz. vol. 144; p. 963.  
 Railway-tie, Metallic. M. M. Mifman. No. 929,685; Aug. 3; Sp. p. 87; Gaz. vol. 145; p. 17.  
 Railway-tie, Metallic. A. F. Jones. No. 931,876; Aug. 24; Sp. p. 4764; Gaz. vol. 145; p. 824.  
 Railway-tie, Metallic. J. R. Davies. No. 932,002; Aug. 24; Sp. p. 5060; Gaz. vol. 145; p. 866.  
 Railway-tie, Metallic. L. P. Friestedt. No. 932,115; Aug. 24; Sp. p. 5302; Gaz. vol. 145; p. 903.  
 Railway-tie, Metallic. A. Frey. No. 937,063; Oct. 19; Sp. p. 3039; Gaz. vol. 147; p. 533.  
 Railway-tie, Metallic. J. G. Snyder. No. 939,343; Nov. 9; Sp. p. 1974; Gaz. vol. 148; p. 336.  
 Railway-tie plate. J. E. Muhlfeld. No. 909,443; Jan. 12; Sp. p. 2041; Gaz. vol. 138; p. 363.  
 Railway-tie plate. R. H. Smith and C. D. Hershberger. No. 912,195; Feb. 9; Sp. p. 2375; Gaz. vol. 139; p. 410.  
 Railway-tie plate. W. S. Weston. No. 914,092; Mar. 2; Sp. p. 940; Gaz. vol. 140; p. 148.  
 Railway-tie plate. W. S. Weston. No. 914,093; Mar. 2; Sp. p. 943; Gaz. vol. 140; p. 148.  
 Railway-tie plate. J. Connor, T. O. Carter, and A. Ray. No. 919,133; Apr. 20; Sp. p. 4493; Gaz. vol. 141; p. 785.  
 Railway-tie plate. A. Morrison. No. 921,724; May 18; Sp. p. 3361; Gaz. vol. 142; p. 598.  
 Railway-tie plate. L. Dilworth. No. 928,429; July 20; Sp. p. 3593; Gaz. vol. 144; p. 635.  
 Railway-tie plate. C. W. Jennings. No. 933,088; Aug. 31; Sp. p. 7177; Gaz. vol. 145; p. 1232.  
 Railway-tie plate. T. A. J. Hendricks. No. 943,073; Dec. 14; Sp. p. 2274; Gaz. vol. 149; p. 385.  
 Railway-tie plate and rail-brace. W. H. Tanner. No. 932,648; Aug. 31; Sp. p. 6399; Gaz. vol. 145; p. 1104.  
 Railway-tie puller. J. R. Smith. No. 924,391; June 8; Sp. p. 2820; Gaz. vol. 143; p. 459.  
 Railway-tie remover. J. H. Rice. No. 909,225; Jan. 12; Sp. p. 1629; Gaz. vol. 138; p. 293.



*Alphabetical list of inventions—Continued.*

- Railway-tie, Self-adjusting steel. A. J. Schneider. No. 942,754; Dec. 7; Sp. p. 1488; Gaz. vol. 149; p. 244.
- Railway-tie, Steel. F. J. Beaudette and F. L. Snowdon. No. 912,785; Feb. 16; Sp. p. 3693; Gaz. vol. 139; p. 649.
- Railway-ties, Attachment for wooden. C. H. Bennett. No. 923,004; May 25; Sp. p. 5981; Gaz. vol. 142; p. 1043.
- Railway-ties, &c., Composition for. J. Kirkham. No. 942,505; Dec. 7; Sp. p. 1005; Gaz. vol. 149; p. 162.
- Railway-ties, posts, and similar articles, Composition of material for and manufacture of. F. Weckerly. No. 933,145; Sept. 7; Sp. p. 217; Gaz. vol. 146; p. 37.
- Railway-ties to be used with screw-spikes, Apparatus for preparing. J. W. Kendrick. No. 932,475; Aug. 31; Sp. p. 6020; Gaz. vol. 145; p. 1045.
- Railway-track. C. J. Burbank. No. 918,277; Apr. 13; Sp. p. 2682; Gaz. vol. 141; p. 475.
- Railway-track. E. A. Buell. No. 925,285; June 15; Sp. p. 4624; Gaz. vol. 143; p. 790.
- Railway-track. H. O. Keferstein. No. 926,877; July 6; Sp. p. 361; Gaz. vol. 144; p. 58.
- Railway-track. L. Clark. No. 927,830; July 13; Sp. p. 2341; Gaz. vol. 144; p. 403.
- Railway-track. W. E. Sizemore. No. 934,022; Sept. 14; Sp. p. 2142; Gaz. vol. 146; p. 354.
- Railway-track. E. A. Barber. No. 934,265; Sept. 14; Sp. p. 2630; Gaz. vol. 146; p. 436.
- Railway-track brace. W. D. Kelly. No. 910,132; Jan. 19; Sp. p. 3421; Gaz. vol. 138; p. 627.
- Railway-track cattle-guard. H. Marshall. No. 927,569; July 13; Sp. p. 1769; Gaz. vol. 144; p. 316.
- Railway-track construction. L. Heiland. No. 917,600; Apr. 6; Sp. p. 1243; Gaz. vol. 141; p. 218.
- Railway-track construction. J. H. F. Schulze. No. 927,175; July 6; Sp. p. 988; Gaz. vol. 144; p. 160.
- Railway-track construction. A. J. Coover. No. 937,770; Oct. 26; Sp. p. 4535; Gaz. vol. 147; p. 786.
- Railway-track construction. S. J. Scott. No. 939,336; Nov. 9; Sp. p. 1954; Gaz. vol. 148; p. 333.
- Railway-track crossing, Metal. J. Anderson. No. 918,113; Apr. 13; Sp. p. 2347; Gaz. vol. 141; p. 420.
- Railway-track fastening. M. J. Dawkins. No. 916,277; Mar. 23; Sp. p. 5314; Gaz. vol. 140; p. 941.
- Railway-track frog. J. E. Lewis. No. 911,054; Feb. 2; Sp. p. 63; Gaz. vol. 139; p. 12.
- Railway-track grass-burner. A. H. Bradley. No. 920,721; May 4; Sp. p. 1288; Gaz. vol. 142; p. 207.
- Railway-track hanger, Overhead. F. Schraudner. No. 923,448; June 1; Sp. p. 759; Gaz. vol. 143; p. 112.
- Railway-track instrument. H. M. Abernethy. No. 933,871; Sept. 14; Sp. p. 1856; Gaz. vol. 146; p. 307.
- Railway-track rail holder and brace. J. T. West. No. 939,767; Nov. 9; Sp. p. 2923; Gaz. vol. 148; p. 480.
- Railway-track safety-block. L. F. Learman. No. 942,835; Dec. 7; Sp. p. 1658; Gaz. vol. 149; p. 271.
- Railway-track structure. H. R. Luther. No. 917,957; Apr. 13; Sp. p. 2004; Gaz. vol. 141; p. 365.
- Railway-track structure. W. D. Peaslee. No. 919,757; Apr. 27; Sp. p. 5984; Gaz. vol. 141; p. 1028.
- Railway-track structure. A. Stark. No. 923,453; June 1; Sp. p. 770; Gaz. vol. 143; p. 114.
- Railway-track structure. A. J. Pemberton. No. 926,133; June 29; Sp. p. 6373; Gaz. vol. 143; p. 1131.
- Railway-track structure. H. F. Roach. No. 929,882; Aug. 3; Sp. p. 552; Gaz. vol. 145; p. 88.
- Railway-track sweeper. S. Speer. No. 924,114; June 8; Sp. p. 2182; Gaz. vol. 143; p. 364.
- Railway-track-tamping machine. W. C. Maxwell. No. 939,847; Nov. 9; Sp. p. 3071; Gaz. vol. 148; p. 507.
- Railway-tracks, Apparatus for depositing sand on. W. D. Ross. No. 936,567; Oct. 12; Sp. p. 2045; Gaz. vol. 147; p. 337.
- Railway-tracks, Means for leveling and finishing surfaces of ballasted. T. S. Cafferty. No. 912,282; Feb. 16; Sp. p. 2589; Gaz. vol. 139; p. 477.
- Railway-tracks, Sod and ditch line marker for. H. J. Schweitzer. No. 943,795; Dec. 21; Sp. p. 3791; Gaz. vol. 149; p. 660.
- Railway-traction. G. Giorgi. No. 924,056; June 8; Sp. p. 2076; Gaz. vol. 143; p. 346.
- Railway-traffic control, Exchanger in tablet systems of. W. Clark. No. 930,042; Aug. 3; Sp. p. 883; Gaz. vol. 145; p. 142.
- Railway-traffic-controlling apparatus. F. L. Dodgson and W. K. Howe. No. 915,081; Mar. 16; Sp. p. 2927; Gaz. vol. 140; p. 521.
- Railway-traffic-controlling device. F. L. Dodgson. No. 934,895; Sept. 21; Sp. p. 3855; Gaz. vol. 146; p. 669.
- Railway-traffic-controlling system. H. Bezer. No. 939,659; Nov. 9; Sp. p. 2673; Gaz. vol. 148; p. 443.
- Railway-train controller, Automatic. L. E. Fugate. No. 933,042; Aug. 31; Sp. p. 7183; Gaz. vol. 145; p. 1233.
- Railway-trains, Apparatus for the control of. P. Utne. No. 919,982; Apr. 27; Sp. p. 6452; Gaz. vol. 141; p. 1103.
- Railway-trains, Apparatus for the control of. R. J. White. No. 932,928; Aug. 31; Sp. p. 6958; Gaz. vol. 145; p. 1195.
- Railway-trains, Automatic signal and stopping device for. F. J. Miller. No. 929,458; July 27; Sp. p. 5706; Gaz. vol. 144; p. 1002.
- Railway-trains, Operating. A. Beamer. No. 927,401; July 6; Sp. p. 1398; Gaz. vol. 144; p. 232.
- Railway-trains, Safety-brake apparatus for. D. M. Daley, A. H. Long, and H. L. Maltbie. No. 935,468; Sept. 28; Sp. p. 5001; Gaz. vol. 146; p. 884.
- Railway-vehicles, Means for controlling the movement of. J. H. Just. No. 936,325; Oct. 12; Sp. p. 1490; Gaz. vol. 147; p. 257.
- Railway truss system, Elevated. D. M. Plautz and J. L. Luckenbach. No. 915,377; Mar. 16; Sp. p. 3544; Gaz. vol. 140; p. 618.
- Railway-vehicle brake. J. E. Schumacher. No. 916,614; Mar. 30; Sp. p. 6024; Gaz. vol. 140; p. 1079.
- Railway-vehicle safety appliance. G. Schlichter and G. Franko. No. 917,666; Apr. 6; Sp. p. 1363; Gaz. vol. 141; p. 240.
- Railway-wheel mounting. J. H. Brown. No. 915,548; Mar. 16; Sp. p. 3900; Gaz. vol. 140; p. 675.
- Railways, Annunciator for. J. J. Strobel. No. 944,390; Dec. 28; Sp. p. 5054; Gaz. vol. 149; p. 889.
- Railways, Catenary suspension system for the trolley-wires of electric. K. von Kando. No. 942,143; Dec. 7; Sp. p. 259; Gaz. vol. 149; p. 39.
- Railways, Device for preventing accidents on. J. M. Long. No. 916,342; Mar. 23; Sp. p. 5429; Gaz. vol. 140; p. 964.
- Railways, Electric controlling and signaling system for. H. E. McDonnell. No. 939,154; Nov. 2; Sp. p. 1509; Gaz. vol. 148; p. 244.
- Railways, Ice-clearing and contact wheel for electric. F. E. Kinsman. No. 917,735; Apr. 6; Sp. p. 1505; Gaz. vol. 141; p. 263.
- Railways, Junction-signal for mining. W. Klemm. No. 943,114; Dec. 14; Sp. p. 2347; Gaz. vol. 149; p. 398.
- Railways, Overhead construction for electric. E. E. Gilmore. No. 944,186; Dec. 21; Sp. p. 4616; Gaz. vol. 149; p. 792.
- Railways, Overhead-line material for electrical. H. P. Davis. No. 933,747; Sept. 14; Sp. p. 1620; Gaz. vol. 146; p. 266.
- Railways, Overhead switch for electric. E. E. Gilmore. No. 944,131; Dec. 21; Sp. p. 4517; Gaz. vol. 149; p. 775.
- Railways, &c., Sound-destroying device for. J. B. Strauss. No. 937,338; Oct. 19; Sp. p. 3631; Gaz. vol. 147; p. 623.
- Railways, &c., Underground subway for street. G. W. Jackson. No. 922,768; May 25; Sp. p. 5500; Gaz. vol. 142; p. 967.
- Rain-gage. W. A. Thomson. No. 916,060; Mar. 23; Sp. p. 4920; Gaz. vol. 140; p. 871.
- Rain-spout, Down. J. Bien. No. 916,095; Mar. 23; Sp. p. 4983; Gaz. vol. 140; p. 883.
- Rake. See Double rake; Earth-rake; Hay-rake; Horse-rake; Lawn-rake; Push or buck rake; Self-cleaning rake; Side-delivery rake; Stalk-rake; Sweep-rake; Washing-machine rake; Wheeled rake.
- Rake. J. Horn. No. 910,382; Jan. 19; Sp. p. 3986; Gaz. vol. 138; p. 716.
- Rake. G. E. Sutphen. No. 914,087; Mar. 2; Sp. p. 930; Gaz. vol. 140; p. 146.
- Rake. L. L. Loveland. No. 915,978; Mar. 23; Sp. p. 4776; Gaz. vol. 140; p. 844.
- Rake. W. H. Jones. No. 933,990; Sept. 14; Sp. p. 2089; Gaz. vol. 146; p. 344.
- Rake. C. M. Lehigh. No. 938,882; Nov. 2; Sp. p. 940; Gaz. vol. 148; p. 148.
- Rake and loader coupling. Hay. F. H. Minnich. No. 926,349; June 29; Sp. p. 6833; Gaz. vol. 143; p. 1202.
- Rake attachment. W. E. Riley. No. 922,515; May 25; Sp. p. 4974; Gaz. vol. 142; p. 885.
- Rake automatic cleaner, Push-. C. H. Russell. No. 914,517; Mar. 9; Sp. p. 1820; Gaz. vol. 140; p. 310.
- Rake cleaning attachment, Horse-. E. Weidlein. No. 909,721; Jan. 12; Sp. p. 2604; Gaz. vol. 138; p. 460.
- Rake lever mechanism, Sweep-. D. Plattner. No. 915,040; Mar. 9; Sp. p. 2845; Gaz. vol. 140; p. 452.
- Rake-machine. E. G. Bartlett. No. 918,816; Apr. 20; Sp. p. 3861; Gaz. vol. 141; p. 681.
- Rake-tooth point. O. F. Orndoff. No. 910,306; Jan. 19; Sp. p. 3832; Gaz. vol. 138; p. 690.
- Rake-tooth, Removable. H. V. Smith. No. 926,902; July 6; Sp. p. 406; Gaz. vol. 144; p. 66.
- Rake-tooth, Steel. W. Kouns. No. 911,017; Jan. 26; Sp. p. 5264; Gaz. vol. 138; p. 946.
- Rakes, Hoe attachment for. P. Fairfield. No. 921,968; May 18; Sp. p. 3872; Gaz. vol. 142; p. 678.
- Rakes, Hoe attachment for. J. Dalpay. No. 923,629; June 1; Sp. p. 1156; Gaz. vol. 143; p. 177.
- Rakes, Push-off attachment for sweep-. J. F. Merrell. No. 932,881; Aug. 31; Sp. p. 6871; Gaz. vol. 145; p. 1179.
- Raker gage and jointer. J. C. Gehrman. No. 938,472; Nov. 2; Sp. p. 37; Gaz. vol. 148; p. 9.
- Raking, turning, and loading corn, hay, and the like, Implement for. O. Preuss. No. 933,785; Sept. 14; Sp. p. 1678; Gaz. vol. 146; p. 278.
- Ram, Hydraulic. P. E. Alger. No. 933,283; Sept. 7; Sp. p. 579; Gaz. vol. 146; p. 89.
- Ram, Hydraulic. F. Hesse. No. 936,244; Oct. 5; Sp. p. 1323; Gaz. vol. 147; p. 203.
- Ramie and other similar substances, Treatment of. L. H. Raw and R. Sumner. No. 915,218; Mar. 16; Sp. p. 3246; Gaz. vol. 140; p. 567.
- Rammer, Paving. N. C. Qvist and W. H. Nordström. No. 914,603; Mar. 9; Sp. p. 1992; Gaz. vol. 140; p. 340.
- Rand-forming machine. A. C. Heath. No. 915,957; Mar. 23; Sp. p. 4720; Gaz. vol. 140; p. 838.
- Range. J. R. Supper. No. 914,085; Mar. 2; Sp. p. 924; Gaz. vol. 140; p. 145.
- Range. H. J. Mathias. No. 937,455; Oct. 19; Sp. p. 3895; Gaz. vol. 147; p. 662.
- Range and cooker, Combined gas. H. B. Cornish. No. 917,848; Apr. 13; Sp. p. 1774; Gaz. vol. 141; p. 326.
- Range burner adjustment, Gas-. B. J. Taylor. No. 911,916; Feb. 9; Sp. p. 1739; Gaz. vol. 139; p. 321.
- Range, Cooking-. H. M. Smith. No. 927,437; July 6; Sp. p. 1483; Gaz. vol. 144; p. 246.
- Range, Cooking-. R. H. Stockton. No. 933,498; Sept. 7; Sp. p. 1117; Gaz. vol. 146; p. 160.
- Range-finder. A. A. Michelson. No. 921,137; May 11; Sp. p. 2123; Gaz. vol. 142; p. 374.
- Range-finder. W. H. M. Christie. No. 928,902; July 20; Sp. p. 4555; Gaz. vol. 144; p. 793.



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- Range-finder. H. H. Royall. No. 934,841; Sept. 21; Sp. p. 3750; Gaz. vol. 146; p. 652.  
 Range-finder, Depression. D. von Nagy. No. 918,190; Apr. 13; Sp. p. 2485; Gaz. vol. 141; p. 445.  
 Range-finder, Depression. D. von Nagy. No. 918,191; Apr. 13; Sp. p. 2489; Gaz. vol. 141; p. 445.  
 Range-finder or telemeter. A. Barr and W. Stroud. No. 944,649; Dec. 28; Sp. p. 5640; Gaz. vol. 149; p. 979.  
 Range-finder, Single-observer. A. Barr and W. Stroud. No. 941,125; Nov. 23; Sp. p. 5918; Gaz. vol. 148; p. 995.  
 Range-finders, Instrument for adjusting. A. Barr and W. Stroud. No. 933,873; Sept. 14; Sp. p. 1862; Gaz. vol. 146; p. 307.  
 Range-finders, Means for supporting and working heads of. A. Barr and W. Stroud. No. 943,296; Dec. 14; Sp. p. 2723; Gaz. vol. 149; p. 460.  
 Range-finders, Scale for. A. Barr and W. Stroud. No. 940,425; Nov. 16; Sp. p. 4411; Gaz. vol. 148; p. 738.  
 Range-Gas-. A. C. Arthur. No. 918,253; Apr. 13; Sp. p. 2635; Gaz. vol. 141; p. 467.  
 Ranges and stoves, Towel-rack for. F. R. Henry. No. 936,890; Oct. 12; Sp. p. 2685; Gaz. vol. 147; p. 447.  
 Raspberry-cleaner. M. B. Sherman. No. 921,291; May 11; Sp. p. 2451; Gaz. vol. 142; p. 427.  
 Rat-trap. C. M. Harrington. No. 910,532; Jan. 26; Sp. p. 4301; Gaz. vol. 138; p. 790.  
 Rat-trap. G. Duffek. No. 916,921; Mar. 30; Sp. p. 6589; Gaz. vol. 140; p. 1175.  
 Rat-trap. L. S. Turnbo. No. 944,926; Dec. 28; Sp. p. 6236; Gaz. vol. 149; p. 1072.  
 Ratan-straightening machine. C. M. Moore. No. 919,202; Apr. 20; Sp. p. 4619; Gaz. vol. 141; p. 807.  
 Ratchet and drill extension. H. J. Forster. No. 939,900; Nov. 9; Sp. p. 3184; Gaz. vol. 148; p. 526.  
 Ratchet-and-pawl-actuating mechanism. F. L. O. Wadsworth. No. 925,855; June 22; Sp. p. 5806; Gaz. vol. 143; p. 1005.  
 Ratchet-brace. J. H. McLaughlin. No. 935,047; Sept. 28; Sp. p. 4166; Gaz. vol. 146; p. 747.  
 Ratchet-brace. G. M. D. Heard. No. 935,256; Sept. 28; Sp. p. 4586; Gaz. vol. 146; p. 816.  
 Ratchet-brace. J. A. Leland. No. 935,266; Sept. 28; Sp. p. 4609; Gaz. vol. 146; p. 819.  
 Ratchet casing-tongs or pipe-wrench. T. Hughes. No. 917,440; Apr. 6; Sp. p. 958; Gaz. vol. 141; p. 166.  
 Ratchet die-stock. E. H. Smith. No. 929,036; July 27; Sp. p. 4825; Gaz. vol. 144; p. 863.  
 Ratchet-drill. J. R. Gilman. No. 919,712; Apr. 27; Sp. p. 5903; Gaz. vol. 141; p. 1013.  
 Ratchet-drill. J. Petterson. No. 922,186; May 18; Sp. p. 4298; Gaz. vol. 142; p. 749.  
 Ratchet-drill. G. W. Figg. No. 941,916; Nov. 30; Sp. p. 7622; Gaz. vol. 148; p. 1283.  
 Ratchet mechanism. W. A. Peck. No. 924,872; June 8; Sp. p. 2783; Gaz. vol. 143; p. 453.  
 Ratchet mechanism, Double-acting friction. A. P. Brush. No. 910,456; Jan. 19; Sp. p. 4138; Gaz. vol. 138; p. 742.  
 Ratchet-releasing mechanism. C. O. L. Cardell. No. 941,188; Nov. 23; Sp. p. 6063; Gaz. vol. 148; p. 1017.  
 Ratchet-wrench. G. Baldwin. No. 912,777; Feb. 16; Sp. p. 3679; Gaz. vol. 139; p. 647.  
 Ratchet-wrench. J. O. Shelburne. No. 921,290; May 11; Sp. p. 2449; Gaz. vol. 142; p. 426.  
 Ratchet-wrench. S. A. Brockway. No. 923,942; June 8; Sp. p. 1857; Gaz. vol. 143; p. 310.  
 Ratchet-wrench. J. B. Hampton. No. 926,653; June 29; Sp. p. 7391; Gaz. vol. 143; p. 1303.  
 Ratchet-wrench. O. M. Weir. No. 927,618; July 13; Sp. p. 1891; Gaz. vol. 144; p. 334.  
 Ratchet-wrench. F. E. Walden. No. 928,719; July 20; Sp. p. 4185; Gaz. vol. 144; p. 729.  
 Ratchet-wrench. R. F. Chapman. No. 934,503; Sept. 21; Sp. p. 3088; Gaz. vol. 146; p. 538.  
 Ratchet-wrench. F. X. Ebel and L. H. Vollrath. No. 934,962; Sept. 21; Sp. p. 3992; Gaz. vol. 146; p. 693.  
 Ratchet-wrench. J. Knowles. No. 936,640; Oct. 12; Sp. p. 2199; Gaz. vol. 147; p. 363.  
 Ratchet-wrench, Adjustable. T. A. Jones. No. 915,443; Mar. 16; Sp. p. 3681; Gaz. vol. 140; p. 640.  
 Ratchet-wrench, Combination. F. E. Walden. No. 912,338; Feb. 16; Sp. p. 2718; Gaz. vol. 139; p. 496.  
 Ratchet-wrench, Socket reversible. D. F. Vollmer. No. 943,905; Dec. 21; Sp. p. 4031; Gaz. vol. 149; p. 698.  
 Rattle. U. G. Leedy and C. B. Wanamaker. No. 923,672; June 1; Sp. p. 1234; Gaz. vol. 143; p. 191.  
 Razor. S. Illis. No. 914,842; Mar. 9; Sp. p. 2500; Gaz. vol. 140; p. 418.  
 Razor. H. C. Hart. No. 919,719; Apr. 27; Sp. p. 5917; Gaz. vol. 141; p. 1016.  
 Razor. E. Weck. No. 929,058; July 27; Sp. p. 4880; Gaz. vol. 144; p. 871.  
 Razor. C. Mallory. No. 933,317; Sept. 7; Sp. p. 643; Gaz. vol. 146; p. 100.  
 Razor-blade. E. E. Bennett. No. 910,487; Jan. 26; Sp. p. 4217; Gaz. vol. 138; p. 776.  
 Razor-blade. E. Weck. No. 929,059; July 27; Sp. p. 4881; Gaz. vol. 144; p. 871.  
 Razor-blade clamp. A. H. Fleming. No. 941,566; Nov. 30; Sp. p. 6866; Gaz. vol. 148; p. 1163.  
 Razor-blade holder. F. C. Gorham. No. 915,024; Mar. 9; Sp. p. 2812; Gaz. vol. 140; p. 476.  
 Razor-blade holder. D. W. Gage. No. 917,043; Apr. 6; Sp. p. 163; Gaz. vol. 141; p. 31.  
 Razor-blade holder. J. Kaufman. No. 921,998; May 18; Sp. p. 3937; Gaz. vol. 142; p. 638.  
 Razor-blade holder, Safety-. G. Toborg. No. 910,096; Jan. 19; Sp. p. 3348; Gaz. vol. 138; p. 616.  
 Razor-blade holder, Safety-. J. W. E. Laker. No. 922,296; May 18; Sp. p. 4519; Gaz. vol. 142; p. 784.  
 Razor-blade holder, Safety-. J. D. Brown. No. 930,149; Aug. 3; Sp. p. 1113; Gaz. vol. 145; p. 180.  
 Razor-blade holder, Safety-. D. Conekin. No. 940,516; Nov. 16; Sp. p. 4609; Gaz. vol. 148; p. 769.  
 Razor-blade package, Safety-. J. Kaufman. No. 932,137; Aug. 24; Sp. p. 5345; Gaz. vol. 145; p. 911.  
 Razor-blade-sharpening device. J. W. Leslie. No. 909,097; Jan. 5; Sp. p. 1361; Gaz. vol. 138; p. 218.  
 Razor-blade strop. I. Conrad. No. 939,219; Nov. 9; Sp. p. 1657; Gaz. vol. 148; p. 292.  
 Razor-blade stropper. H. Goldsmith and S. Werner. No. 926,865; July 6; Sp. p. 338; Gaz. vol. 144; p. 54.  
 Razor-blade stropper. W. W. Trowbridge and C. H. Wheelock. No. 940,412; Nov. 16; Sp. p. 4387; Gaz. vol. 148; p. 734.  
 Razor-blade-stropping apparatus. W. Schmidt. No. 944,282; Dec. 28; Sp. p. 4821; Gaz. vol. 149; p. 851.  
 Razor-blade-stropping device. O. Kampfe. No. 928,664; July 20; Sp. p. 4086; Gaz. vol. 144; p. 712.  
 Razor-blade-stropping device. O. Kampfe. No. 943,355; Dec. 14; Sp. p. 2848; Gaz. vol. 149; p. 479.  
 Razor-blade-stropping implement. W. H. Nicholls. No. 911,839; Feb. 9; Sp. p. 1589; Gaz. vol. 139; p. 295.  
 Razor-case. W. L. Clark. No. 942,484; Dec. 7; Sp. p. 958; Gaz. vol. 149; p. 154.  
 Razor, Electric safety-. L. Brunacci. No. 911,472; Feb. 2; Sp. p. 849; Gaz. vol. 139; p. 149.  
 Razor frame, Safety-. A. Koscherak. No. 920,482; May 4; Sp. p. 780; Gaz. vol. 142; p. 127.  
 Razor-honing device. A. D. Ray. No. 918,909; Apr. 20; Sp. p. 4066; Gaz. vol. 141; p. 713.  
 Razor or blade stropping machine. W. J. Kendig. No. 933,465; Sept. 7; Sp. p. 983; Gaz. vol. 146; p. 149.  
 Razor, Rotary safety-. A. M. Rankin. No. 926,509; June 29; Sp. p. 7110; Gaz. vol. 143; p. 1255.  
 Razor, Safety-. J. W. Leslie. No. 908,470; Jan. 5; Sp. p. 72; Gaz. vol. 138; p. 14.  
 Razor, Safety-. M. T. and C. T. Heil. No. 908,568; Jan. 5; Sp. p. 284; Gaz. vol. 138; p. 48.  
 Razor, Safety-. J. H. Flagg. No. 910,187; Jan. 19; Sp. p. 3547; Gaz. vol. 138; p. 645.  
 Razor, Safety-. P. H. Unsinger. No. 912,633; Feb. 16; Sp. p. 3331; Gaz. vol. 139; p. 597.  
 Razor, Safety-. J. M. Wallace. No. 913,076; Feb. 23; Sp. p. 4237; Gaz. vol. 139; p. 767.  
 Razor, Safety-. F. H. Arnold. No. 913,186; Feb. 23; Sp. p. 4464; Gaz. vol. 139; p. 804.  
 Razor, Safety-. B. Kiam. No. 914,957; Mar. 9; Sp. p. 2702; Gaz. vol. 140; p. 454.  
 Razor, Safety-. W. J. Moore. No. 915,989; Mar. 23; Sp. p. 4792; Gaz. vol. 140; p. 847.  
 Razor, Safety-. H. H. Boyce. No. 917,532; Apr. 6; Sp. p. 1125; Gaz. vol. 141; p. 197.  
 Razor, Safety-. C. Grabhorn. No. 917,589; Apr. 6; Sp. p. 1227; Gaz. vol. 141; p. 215.  
 Razor, Safety-. O. A. Clark. No. 918,126; Apr. 13; Sp. p. 2373; Gaz. vol. 141; p. 425.  
 Razor, Safety-. E. D. Becker. No. 919,307; Apr. 27; Sp. p. 5045; Gaz. vol. 141; p. 876.  
 Razor, Safety-. S. Korper. No. 919,888; Apr. 27; Sp. p. 6283; Gaz. vol. 141; p. 1072.  
 Razor, Safety-. J. J. Meehan. No. 919,910; Apr. 27; Sp. p. 6322; Gaz. vol. 141; p. 1080.  
 Razor, Safety-. L. B. Prahar. No. 922,188; May 18; Sp. p. 4301; Gaz. vol. 142; p. 750.  
 Razor, Safety-. J. Reichard. No. 923,077; May 25; Sp. p. 6151; Gaz. vol. 142; p. 1067.  
 Razor, Safety-. R. H. Reed. No. 923,579; June 1; Sp. p. 1046; Gaz. vol. 143; p. 160.  
 Razor, Safety-. J. Stolper. No. 927,188; July 6; Sp. p. 1013; Gaz. vol. 144; p. 164.  
 Razor, Safety-. G. H. Hamilton. No. 927,349; July 6; Sp. p. 1301; Gaz. vol. 144; p. 215.  
 Razor, Safety-. C. A. O'Neill. No. 927,588; July 13; Sp. p. 1812; Gaz. vol. 144; p. 323.  
 Razor, Safety-. R. H. Reed. No. 929,015; July 27; Sp. p. 4787; Gaz. vol. 144; p. 856.  
 Razor, Safety-. J. L. Grimes. No. 930,373; Aug. 10; Sp. p. 1519; Gaz. vol. 145; p. 276.  
 Razor, Safety-. L. N. Levinsohn. No. 931,778; Aug. 24; Sp. p. 4566; Gaz. vol. 145; p. 792.  
 Razor, Safety-. P. H. Unsinger. No. 932,518; Aug. 31; Sp. p. 6108; Gaz. vol. 145; p. 1059.  
 Razor, Safety-. C. R. Lawrence. No. 932,619; Aug. 31; Sp. p. 6347; Gaz. vol. 145; p. 1095.  
 Razor, Safety-. O. A. Clark. No. 933,020; Aug. 31; Sp. p. 7131; Gaz. vol. 145; p. 1225.  
 Razor, Safety-. C. R. Faas. No. 933,168; Sept. 7; Sp. p. 277; Gaz. vol. 146; p. 46.  
 Razor, Safety-. L. Brunacci. No. 933,415; Sept. 7; Sp. p. 854; Gaz. vol. 146; p. 133.  
 Razor, Safety-. J. Molkenthin, Jr. No. 933,571; Sept. 7; Sp. p. 1245; Gaz. vol. 146; p. 184.  
 Razor, Safety-. G. A. Johnson. No. 934,074; Sept. 14; Sp. p. 2247; Gaz. vol. 146; p. 370.  
 Razor, Safety-. L. Knaster. No. 935,032; Sept. 28; Sp. p. 4133; Gaz. vol. 146; p. 741.  
 Razor, Safety-. S. Hauser and E. Shepherd. No. 935,979; Oct. 5; Sp. p. 808; Gaz. vol. 147; p. 120.



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- Razor, Safety-. C. G. Schimkat. No. 936,045; Oct. 5; Sp. p. 947; Gaz. vol. 147; p. 141.  
 Razor, Safety-. S. Willett. No. 936,068; Oct. 5; Sp. p. 993; Gaz. vol. 147; p. 150.  
 Razor, Safety-. E. H. McIntire. No. 936,654; Oct. 12; Sp. p. 2230; Gaz. vol. 147; p. 369.  
 Razor, Safety-. J. R. Gilda. No. 937,992; Oct. 26; Sp. p. 4988; Gaz. vol. 147; p. 860.  
 Razor, Safety-. W. L. and E. J. Nahn. No. 938,396; Oct. 26; Sp. p. 5884; Gaz. vol. 147; p. 998.  
 Razor, Safety-. W. Diebel. No. 939,400; Nov. 9; Sp. p. 2123; Gaz. vol. 148; p. 354.  
 Razor, Safety-. H. Wilcox. No. 939,935; Nov. 9; Sp. p. 3268; Gaz. vol. 148; p. 539.  
 Razor, Safety-. F. Cupelli. No. 941,231; Nov. 23; Sp. p. 6153; Gaz. vol. 148; p. 1032.  
 Razor, Safety-. F. M. Edmonds. No. 944,989; Dec. 28; Sp. p. 6362; Gaz. vol. 149; p. 1092.  
 Razor safety attachment. H. D. Budde and O. Poeschmann. No. 913,807; Mar. 2; Sp. p. 272; Gaz. vol. 140; p. 46.  
 Razor-sterilizing attachment for sterilizing-cabinets. J. M. Allspaw. No. 917,397; Apr. 6; Sp. p. 889; Gaz. vol. 141; p. 153.  
 Razor-strop. F. L. Pinney. No. 910,855; Jan. 26; Sp. p. 4950; Gaz. vol. 138; p. 894.  
 Razor-strop. F. L. Pinney. No. 910,856; Jan. 26; Sp. p. 4951; Gaz. vol. 138; p. 894.  
 Razor-strop. E. E. Deputy. No. 910,916; Jan. 26; Sp. p. 5070; Gaz. vol. 138; p. 914.  
 Razor-strop. M. Krischer. No. 914,147; Mar. 2; Sp. p. 1048; Gaz. vol. 140; p. 166.  
 Razor-strop. W. P. Harthan. No. 931,758; Aug. 24; Sp. p. 4522; Gaz. vol. 145; p. 786.  
 Razor strop, Safety-. I. Conrad. No. 932,536; Aug. 31; Sp. p. 6147; Gaz. vol. 145; p. 1066.  
 Razor-strop support. H. N. Breneman. No. 925,747; June 22; Sp. p. 5555; Gaz. vol. 143; p. 968.  
 Razor-stropper. Hand. C. Balreich. No. 909,050; Jan. 5; Sp. p. 1262; Gaz. vol. 138; p. 202.  
 Razor-stropping device. W. J. Miles, Jr. No. 910,563; Jan. 26; Sp. p. 4375; Gaz. vol. 138; p. 802.  
 Razor-stropping device. F. Mossberg. No. 917,102; Apr. 6; Sp. p. 283; Gaz. vol. 141; p. 52.  
 Razor-stropping device. J. Heissenberger. No. 936,127; Oct. 5; Sp. p. 1113; Gaz. vol. 147; p. 169.  
 Razor-stropping device. M. Gallas. No. 937,786; Oct. 26; Sp. p. 4571; Gaz. vol. 147; p. 792.  
 Razor-stropping device. C. F. Benedict. No. 942,880; Dec. 14; Sp. p. 1802; Gaz. vol. 149; p. 318.  
 Razor-stropping device, Safety-. F. M. Williams. No. 932,736; Aug. 31; Sp. p. 6582; Gaz. vol. 145; p. 1134.  
 Razor-stropping machine. J. R. Dievendorf. No. 922,102; May 18; Sp. p. 4134; Gaz. vol. 142; p. 723.  
 Razors, Device for stropping double-edged safety-. F. Mitchell. No. 928,318; July 20; Sp. p. 3402; Gaz. vol. 144; p. 598.  
 Reamer. E. Haber. No. 909,401; Jan. 12; Sp. p. 1959; Gaz. vol. 138; p. 349.  
 Reamer. C. H. Maimedie. No. 909,434; Jan. 12; Sp. p. 2027; Gaz. vol. 138; p. 360.  
 Reamer J. Gallagher. No. 914,653; Mar. 9; Sp. p. 2081; Gaz. vol. 140; p. 354.  
 Reamer. A. Fischbach. No. 916,134; Mar. 23; Sp. p. 5053; Gaz. vol. 140; p. 895.  
 Reamer. J. Muth, W. E. Kelly, and C. F. Heinkel. No. 931,883; Aug. 24; Sp. p. 4773; Gaz. vol. 145; p. 825.  
 Reamer. A. E. Church. No. 941,912; Nov. 30; Sp. p. 7615; Gaz. vol. 148; p. 1282.  
 Reamer, Adjustable. R. W. Bailey. No. 942,533; Dec. 7; Sp. p. 1058; Gaz. vol. 149; p. 171.  
 Reamer, Expansion-. J. E. Schaeffer. No. 925,515; June 22; Sp. p. 5076; Gaz. vol. 143; p. 893.  
 Reamer, Expansion-. C. O. Schellenbach. No. 930,317; Aug. 3; Sp. p. 1399; Gaz. vol. 145; p. 232.  
 Reamer, Expansion-. L. C. Woerner. No. 937,404; Oct. 19; Sp. p. 3778; Gaz. vol. 147; p. 645.  
 Reamers, Arbor for shell-. R. H. Stearns. No. 939,345; Nov. 9; Sp. p. 1978; Gaz. vol. 148; p. 336.  
 Reaper and binder. C. O. Wyman. No. 943,856; Dec. 21; Sp. p. 3915; Gaz. vol. 149; p. 631.  
 Reaping, mowing, and like machines, Knife-blade of. J. Squair. No. 922,058; May 18; Sp. p. 4047; Gaz. vol. 142; p. 708.  
 Receiver. C. G. Ashley. No. 908,725; Jan. 5; Sp. p. 629; Gaz. vol. 138; p. 98.  
 Receiving apparatus. H. Shoemaker. No. 932,913; Aug. 31; Sp. p. 6920; Gaz. vol. 145; p. 1189.  
 Receptacle. A. Bopp. No. 916,986; Apr. 6; Sp. p. 42; Gaz. vol. 141; p. 12.  
 Receptacle. R. and W. Wesener. No. 918,405; Apr. 13; Sp. p. 2923; Gaz. vol. 141; p. 515.  
 Receptacle. A. B. Starr and A. E. Meinke. No. 921,479; May 11; Sp. p. 2850; Gaz. vol. 142; p. 490.  
 Receptacle. O. J. Weeks. No. 924,205; June 8; Sp. p. 2436; Gaz. vol. 143; p. 397.  
 Receptacle. E. Ludescher. No. 924,681; June 15; Sp. p. 3414; Gaz. vol. 143; p. 587.  
 Receptacle. M. S. Weaver. No. 930,445; Aug. 10; Sp. p. 1654; Gaz. vol. 145; p. 299.  
 Receptacle. F. Harding. No. 943,825; Dec. 21; Sp. p. 3853; Gaz. vol. 149; p. 670.  
 Receptacle. A. Sargent. No. 944,580; Dec. 28; Sp. p. 5506; Gaz. vol. 149; p. 956.  
 Receptacle. G. P. Schmidt. No. 944,696; Dec. 28; Sp. p. 5745; Gaz. vol. 149; p. 994.  
 Receptacle and blank therefor. J. B. Miller. No. 926,758; July 6; Sp. p. 106; Gaz. vol. 144; p. 17.  
 Receptacle and closure. G. E. Decker. No. 944,234; Dec. 21; Sp. p. 4703; Gaz. vol. 149; p. 806.  
 Receptacle and closure therefor. B. M. Eaton. No. 919,838; Apr. 27; Sp. p. 6188; Gaz. vol. 141; p. 1055.  
 Receptacle attachment, Adjustable. L. P. Benson. No. 928,841; July 20; Sp. p. 4421; Gaz. vol. 144; p. 770.  
 Receptacle-closure. E. P. Ryburg and W. T. Bryan. No. 923,895; June 8; Sp. p. 1778; Gaz. vol. 143; p. 296.  
 Receptacle-closure. T. B. Bradford. No. 935,524; Sept. 7; Sp. p. 1166; Gaz. vol. 146; p. 168.  
 Receptacle-closure. F. P. Wilbur and E. B. Marshall. No. 940,653; Nov. 16; Sp. p. 4587; Gaz. vol. 148; p. 814.  
 Receptacle closure, Fluid-. A. and T. A. De Vilbiss. (Reissue). No. 13,049; Dec. 7; Sp. p. 1776; Gaz. vol. 149; p. 286.  
 Receptacle closure or retainer. L. Eschner. No. 914,253; Mar. 2; Sp. p. 1281; Gaz. vol. 140; p. 199.  
 Receptacle-closure-removing device. H. E. Shepard. No. 939,641; Nov. 9; Sp. p. 2643; Gaz. vol. 148; p. 437.  
 Receptacle, Collapsible. M. J. Shaffer. No. 922,345; May 18; Sp. p. 4603; Gaz. vol. 142; p. 800.  
 Receptacle, Combination-. F. H. Shaw. No. 932,910; Aug. 31; Sp. p. 6917; Gaz. vol. 145; p. 1189.  
 Receptacle, Double-ended. H. R. Sargent and F. C. De Riemer. No. 944,347; Dec. 28; Sp. p. 4955; Gaz. vol. 149; p. 873.  
 Receptacle especially adapted for mustard. C. F. W. Lindewirth and E. A. Wieck. No. 922,492; May 25; Sp. p. 4923; Gaz. vol. 142; p. 877.  
 Receptacle, Folding. L. P. Brown. No. 933,955; Sept. 14; Sp. p. 2021; Gaz. vol. 146; p. 333.  
 Receptacle for fluids, Non-refillable. J. H. Brown. No. 944,313; Dec. 28; Sp. p. 4889; Gaz. vol. 149; p. 861.  
 Receptacle, Garbage. J. Conley. No. 930,842; Aug. 10; Sp. p. 2498; Gaz. vol. 145; p. 433.  
 Receptacle, Metallic. E. R. Williams. No. 935,440; Sept. 28; Sp. p. 4952; Gaz. vol. 146; p. 875.  
 Receptacle-opening device. G. C. Weber. No. 911,927; Feb. 9; Sp. p. 1755; Gaz. vol. 139; p. 325.  
 Receptacle-opening device. G. C. Weber. No. 925,145; June 15; Sp. p. 4364; Gaz. vol. 143; p. 745.  
 Receptacle-support, Adjustable. W. L. Latou. No. 911,413; Feb. 2; Sp. p. 752; Gaz. vol. 139; p. 131.  
 Receptacle with sprinkler-hole in a cap. E. Meyers. No. 944,890; Dec. 28; Sp. p. 6163; Gaz. vol. 149; p. 1061.  
 Receptacle, Wooden. H. H. Horr. No. 931,694; Aug. 17; Sp. p. 4368; Gaz. vol. 145; p. 742.  
 Receptacles, Construction of. A. T. Kruse. No. 943,686; Dec. 21; Sp. p. 3573; Gaz. vol. 149; p. 622.  
 Receptacles, Driving mechanism for revolvable. M. W. Lamson. No. 920,761; May 4; Sp. p. 1343; Gaz. vol. 142; p. 218.  
 Receptacles, Holder for series of small. C. King. No. 919,182; Apr. 20; Sp. p. 4583; Gaz. vol. 141; p. 800.  
 Recessing-machine. O. M. Mowat. No. 932,407; Aug. 24; Sp. p. 5856; Gaz. vol. 145; p. 1000.  
 Reciprocating beds, Cushioning mechanism for. C. A. McCain. No. 944,492; Dec. 28; Sp. p. 5296; Gaz. vol. 149; p. 924.  
 Reciprocating engine. J. Holgate. No. 943,829; Dec. 21; Sp. p. 3862; Gaz. vol. 149; p. 672.  
 Reciprocating machine-tools and the like, Electromagnetic apparatus for. H. A. Hornor. No. 915,438; Mar. 16; Sp. p. 3670; Gaz. vol. 140; p. 639.  
 Reciprocating motor. J. G. McDowell. No. 914,744; Mar. 9; Sp. p. 2304; Gaz. vol. 140; p. 385.  
 Reclining-chair. J. Flindall. No. 908,986; Jan. 5; Sp. p. 1149; Gaz. vol. 138; p. 182.  
 Reclining-chair. F. C. Tate. No. 922,209; May 18; Sp. p. 4356; Gaz. vol. 142; p. 757.  
 Reclining-chair. C. A. Warner. No. 936,589; Oct. 12; Sp. p. 2085; Gaz. vol. 147; p. 346.  
 Reclining-chair. J. Flindall. No. 942,818; Dec. 7; Sp. p. 1616; Gaz. vol. 149; p. 265.  
 Reclining-chair, Adjustable. J. F. Wilmut. No. 944,065; Dec. 21; Sp. p. 4370; Gaz. vol. 149; p. 753.  
 Recoil-loader with fixed barrel. P. Mauser. No. 943,949; Dec. 21; Sp. p. 4120; Gaz. vol. 149; p. 714.  
 Recoil-pad. J. H. Wesson. No. 926,529; June 29; Sp. p. 7148; Gaz. vol. 143; p. 1262.  
 Recoil-pad. J. S. Johnson. No. 943,683; Dec. 21; Sp. p. 3570; Gaz. vol. 149; p. 622.  
 Record, Abstract-. W. K. Scarborough. No. 912,179; Feb. 9; Sp. p. 2346; Gaz. vol. 139; p. 406.  
 Record guide, Music-. F. C. Roberts. No. 917,661; Apr. 6; Sp. p. 1355; Gaz. vol. 141; p. 239.  
 Record-holder. A. M. Seeley. No. 921,289; May 11; Sp. p. 2447; Gaz. vol. 142; p. 426.  
 Record-holder. W. T. Long. No. 935,379; Sept. 28; Sp. p. 4838; Gaz. vol. 146; p. 855.  
 Record-packet. G. T. Williams. No. 911,794; Feb. 9; Sp. p. 1508; Gaz. vol. 139; p. 281.  
 Record-tablet. G. A. Eliason. No. 942,627; Dec. 7; Sp. p. 1240; Gaz. vol. 149; p. 203.  
 Recorder: See Depth-recorder; Fare-recorder; Passenger-recorder; Signal-recorder; Speed-recorder; Sound-recorder; Time-recorder; Tire contour-recorder; Velocity-recorder.  
 Recording and printing meter. H. A. Selah. No. 920,088; Apr. 27; Sp. p. 6697; Gaz. vol. 141; p. 1137.  
 Recording and printing meter. H. A. Selah. No. 920,089; Apr. 27; Sp. p. 6699; Gaz. vol. 141; p. 1138.  
 Recording-annunciator. W. B. Woodruff. No. 909,502; Jan. 12; Sp. p. 2162; Gaz. vol. 138; p. 383.

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- Recording apparatus, Comparative. J. M. Boyle. No. 910,493; Jan. 26; Sp. p. 4227; Gaz. vol. 138; p. 778.  
 Recording device. H. Bradford and H. V. Paris. No. 911,435; Feb. 2; Sp. p. 791; Gaz. vol. 139; p. 138.  
 Recording device, Labor-cost. J. T. Quigley. No. 932,575; Aug. 31; Sp. p. 6229; Gaz. vol. 145; p. 1079.  
 Recording-gage. W. Young. No. 910,630; Jan. 26; Sp. p. 4519; Gaz. vol. 138; p. 823.  
 Recording instrument. W. H. Bristol. No. 918,274; Apr. 13; Sp. p. 2677; Gaz. vol. 141; p. 473.  
 Recording instrument. W. H. Pratt. No. 919,459; Apr. 27; Sp. p. 5370; Gaz. vol. 141; p. 927.  
 Recording instrument. W. H. Pratt. No. 920,084; Apr. 27; Sp. p. 6686; Gaz. vol. 141; p. 1136.  
 Recording instrument. J. Harris. No. 926,869; July 6; Sp. p. 3445; Gaz. vol. 144; p. 55.  
 Recording instrument. R. P. Brown. No. 937,047; Oct. 19; Sp. p. 3008; Gaz. vol. 147; p. 528.  
 Recording-lock. C. G. Heyne, J. B. Hayward, and W. M. McCarthy. No. 929,305; July 27; Sp. p. 5411; Gaz. vol. 144; p. 952.  
 Recording-lock. H. S. Hallwood. No. 937,370; Oct. 19; Sp. p. 3677; Gaz. vol. 147; p. 634.  
 Recording-machine. B. Dysart. No. 913,880; Mar. 2; Sp. p. 446; Gaz. vol. 140; p. 73.  
 Recording mechanism. W. H. Pike, Jr. No. 915,883; Mar. 23; Sp. p. 4585; Gaz. vol. 140; p. 814.  
 Recording mechanism. W. H. Pike, Jr. No. 916,589; Mar. 30; Sp. p. 5969; Gaz. vol. 140; p. 1071.  
 Recording mechanism. C. E. W. Gardner. No. 918,529; Apr. 20; Sp. p. 3187; Gaz. vol. 141; p. 584.  
 Recording mechanism. J. M. Johnson. No. 935,661; Oct. 5; Sp. p. 69; Gaz. vol. 147; p. 13.  
 Recording speech. W. J. Kehoe. No. 908,575; Jan. 5; Sp. p. 296; Gaz. vol. 138; p. 50.  
 Rectal apparatus. J. P. Sanborn. No. 942,590; Dec. 7; Sp. p. 1164; Gaz. vol. 149; p. 189.  
 Rectifier. G. W. Pierce. No. 923,700; June 1; Sp. p. 1293; Gaz. vol. 143; p. 201.  
 Rectifier. C. W. Sirsch. No. 931,806; Aug. 24; Sp. p. 4623; Gaz. vol. 145; p. 802.  
 Reducing mechanism. A. A. Day. No. 919,327; Apr. 27; Sp. p. 5086; Gaz. vol. 141; p. 882.  
 Reducing-mill. W. L. Irven and M. O'Brien. No. 934,918; Sept. 21; Sp. p. 3902; Gaz. vol. 146; p. 677.  
 Reed-motion. F. Ott. No. 911,675; Feb. 9; Sp. p. 1301; Gaz. vol. 139; p. 242.  
 Reeds and water-plants growing in ponds and rivers, Device for cutting away. F. C. Ziemsens. No. 911,357; Feb. 2; Sp. p. 657; Gaz. vol. 139; p. 112.  
 Reeds, ratan, &c., Article made from. G. E. Pfennighausen. No. 938,696; Nov. 2; Sp. p. 547; Gaz. vol. 148; p. 85.  
 Reel: See Box-strap reel; Box-strap-supply reel; Clothes-reel; Clothes-line reel; Dressing-machine reel; Evglass-chain reel; Fishing-reel; Harvester-reel; Hose-reel; Paper-reel; Reeling-machine reel; Rope-reel; Ruching-reel; Sand-reel; Vehicle and cable reel; Warping-reel; Winding and drying reel; Wire-reel; Yarn-reel.  
 Reel. H. M. Danker. No. 909,559; Jan. 12; Sp. p. 2276; Gaz. vol. 138; p. 403.  
 Reel. A. V. Lindquist. No. 919,042; Apr. 20; Sp. p. 4328; Gaz. vol. 141; p. 755.  
 Reel. F. J. Moser. No. 923,559; June 1; Sp. p. 992; Gaz. vol. 143; p. 152.  
 Reel. A. Wilson. No. 932,218; Aug. 24; Sp. p. 5504; Gaz. vol. 145; p. 937.  
 Reel-clamp. H. G. Huffman. No. 930,181; Aug. 3; Sp. p. 1175; Gaz. vol. 145; p. 191.  
 Reel for coiling flats or other rolled sections. F. H. Daniels. No. 936,610; Oct. 12; Sp. p. 2134; Gaz. vol. 147; p. 354.  
 Reel-holder. A. J. Chandler. No. 915,333; Mar. 16; Sp. p. 3463; Gaz. vol. 140; p. 604.  
 Reel-holder. J. P. Weaver. No. 934,114; Sept. 14; Sp. p. 2339; Gaz. vol. 146; p. 383.  
 Reels, Making grading-. F. Prinz. No. 937,861; Oct. 26; Sp. p. 4718; Gaz. vol. 147; p. 816.  
 Reeling device. E. S. Petersen. No. 933,337; Sept. 7; Sp. p. 689; Gaz. vol. 146; p. 107.  
 Reeling-machine reel. A. McLane and G. Sipp. No. 943,798; Dec. 21; Sp. p. 3801; Gaz. vol. 149; p. 661.  
 Reflecting device and sound-conveyer, Combination. L. Weglein, Jr. No. 927,910; July 13; Sp. p. 2526; Gaz. vol. 144; p. 431.  
 Reflectograph. M. Monaco. No. 924,089; June 8; Sp. p. 2135; Gaz. vol. 143; p. 356.  
 Reflector. A. J. Brown. No. 908,838; Jan. 5; Sp. p. 848; Gaz. vol. 138; p. 133.  
 Reflector. E. Schmitt and A. Anton. No. 919,780; Apr. 27; Sp. p. 6030; Gaz. vol. 141; p. 1036.  
 Reflector. W. H. Spencer and J. A. Carlstedt. No. 927,011; July 6; Sp. p. 632; Gaz. vol. 144; p. 103.  
 Reflector. L. Zamboni. No. 935,347; Sept. 28; Sp. p. 4783; Gaz. vol. 146; p. 846.  
 Reflector and lamp-receiving socket therefor. W. H. Spencer. No. 929,336; July 27; Sp. p. 5500; Gaz. vol. 144; p. 964.  
 Reflector, Burner-flame. J. G. Harvey. No. 925,182; June 15; Sp. p. 4442; Gaz. vol. 143; p. 758.  
 Reflector for artificial light. K. Booth. No. 925,862; June 22; Sp. p. 5822; Gaz. vol. 143; p. 1008.  
 Reflector for miners' lamps. Z. Hough and L. F. Weaver. No. 923,655; June 1; Sp. p. 1206; Gaz. vol. 143; p. 185.  
 Reflector, Lantern-. O. A. Prunner. No. 931,482; Aug. 17; Sp. p. 3921; Gaz. vol. 145; p. 676.  
 Reflector support and socket, Combined. W. H. Spencer. No. 924,698; June 15; Sp. p. 3449; Gaz. vol. 143; p. 593.  
 Reflectors, Manufacture of. S. O. Cowper-Coles. No. 915,414; Mar. 16; Sp. p. 3621; Gaz. vol. 140; p. 631.  
 Reflectors or shades and electric lamps, Means for use in connection with combined. L. Zamboni. No. 935,348; Sept. 28; Sp. p. 4785; Gaz. vol. 146; p. 846.  
 Reflectors, Skirting for. O. A. Mygatt. No. 939,062; Nov. 2; Sp. p. 1310; Gaz. vol. 148; p. 212.  
 Reflectors, Supporting-socket for. W. H. Spencer. No. 927,818; July 13; Sp. p. 2322; Gaz. vol. 144; p. 400.  
 Refractory brick for metallurgical and other uses. C. E. Pope. No. 944,692; Dec. 28; Sp. p. 5739; Gaz. vol. 149; p. 994.  
 Refractory material and producing same. C. L. Norton. No. 926,820; July 6; Sp. p. 241; Gaz. vol. 144; p. 38.  
 Refractory material, Composition for producing. C. L. Norton. No. 929,003; July 27; Sp. p. 4759; Gaz. vol. 144; p. 852.  
 Refractory substances, Process relating to. R. Tripmacher. No. 930,575; Aug. 10; Sp. p. 1960; Gaz. vol. 145; p. 345.  
 Refrigerating and ice-making plants, Expansion-coil for. R. Whitaker. No. 943,725; Dec. 21; Sp. p. 3662; Gaz. vol. 149; p. 636.  
 Refrigerating apparatus. R. Whitaker. No. 911,635; Feb. 9; Sp. p. 1212; Gaz. vol. 139; p. 229.  
 Refrigerating apparatus. F. A. Rider. No. 920,392; May 4; Sp. p. 619; Gaz. vol. 142; p. 98.  
 Refrigerating apparatus. J. Schneible. No. 928,546; July 20; Sp. p. 3830; Gaz. vol. 144; p. 672.  
 Refrigerating apparatus. F. L. Barkdoll. No. 932,946; Aug. 31; Sp. p. 6991; Gaz. vol. 145; p. 1201.  
 Refrigerating apparatus. R. H. Thomas. No. 938,181; Oct. 26; Sp. p. 5415; Gaz. vol. 147; p. 924.  
 Refrigerating apparatus. C. M. Gay. No. 940,590; Nov. 16; Sp. p. 4759; Gaz. vol. 148; p. 793.  
 Refrigerating apparatus. W. W. Seay. No. 941,733; Nov. 30; Sp. p. 7229; Gaz. vol. 148; p. 1219.  
 Refrigerating apparatus. J. Heinrich. No. 942,445; Dec. 7; Sp. p. 859; Gaz. vol. 149; p. 140.  
 Refrigerating apparatus. J. Heinrich. No. 942,499; Dec. 7; Sp. p. 994; Gaz. vol. 149; p. 160.  
 Refrigerating apparatus, Ammonia. T. C. McKee. No. 943,040; Dec. 14; Sp. p. 2183; Gaz. vol. 149; p. 373.  
 Refrigerating apparatus, Ammonia-condenser for. H. W. Colby. No. 924,738; June 15; Sp. p. 3542; Gaz. vol. 143; p. 607.  
 Refrigerating apparatus, Automatic. R. F. Massa. No. 929,151; July 27; Sp. p. 5073; Gaz. vol. 144; p. 901.  
 Refrigerating apparatus, Compressed-air. C. Tellier. No. 923,604; June 1; Sp. p. 1109; Gaz. vol. 143; p. 169.  
 Refrigerating apparatus, Safety system for ammonia. F. Henneböhle. No. 933,731; Sept. 7; Sp. p. 1537; Gaz. vol. 146; p. 240.  
 Refrigerating cars, Means for. L. M. Lyon. No. 924,620; June 8; Sp. p. 3280; Gaz. vol. 143; p. 534.  
 Refrigerating-counter. E. Carpenter. No. 938,554; Nov. 2; Sp. p. 259; Gaz. vol. 148; p. 38.  
 Refrigerating-machine. R. Whitaker. No. 932,599; Aug. 31; Sp. p. 6284; Gaz. vol. 145; p. 1087.  
 Refrigerating-machine. R. N. Dyer. No. 942,367; Dec. 7; Sp. p. 704; Gaz. vol. 149; p. 114.  
 Refrigerating-machine, Absorption. T. J. Kirm. No. 925,920; June 22; Sp. p. 5942; Gaz. vol. 143; p. 1026.  
 Refrigerating mechanism. F. P. Miller. No. 915,621; Mar. 16; Sp. p. 4054; Gaz. vol. 140; p. 700.  
 Refrigerating-package. A. W. Folsom. No. 942,318; Dec. 7; Sp. p. 619; Gaz. vol. 149; p. 98.  
 Refrigerating system, Multiple-effect absorption. G. T. Voorhees. No. 932,657; Aug. 31; Sp. p. 6413; Gaz. vol. 145; p. 1107.  
 Refrigerating systems, Apparatus for separating oil from ammonia in. C. D. Bauer. No. 930,128; Aug. 3; Sp. p. 1071; Gaz. vol. 145; p. 172.  
 Refrigeration and water-supply, System of. G. Fleming. No. 920,557; May 4; Sp. p. 941; Gaz. vol. 142; p. 152.  
 Refrigeration process. W. W. Seay. No. 925,039; June 15; Sp. p. 4169; Gaz. vol. 143; p. 709.  
 Refrigeration process. W. W. Seay. No. 926,080; June 22; Sp. p. 6264; Gaz. vol. 143; p. 1079.  
 Refrigeration, Process of. W. W. Seay. No. 941,734; Nov. 30; Sp. p. 7231; Gaz. vol. 148; p. 1220.  
 Refrigeration system. R. F. Massa. No. 912,866; Feb. 16; Sp. p. 3822; Gaz. vol. 139; p. 673.  
 Refrigeration system. A. Day. No. 925,625; June 22; Sp. p. 5287; Gaz. vol. 143; p. 929.  
 Refrigerator. A. C. Sample. No. 911,843; Feb. 9; Sp. p. 1597; Gaz. vol. 139; p. 296.  
 Refrigerator. G. Mey. No. 912,868; Feb. 16; Sp. p. 3826; Gaz. vol. 139; p. 674.  
 Refrigerator. A. Finch. No. 913,276; Feb. 23; Sp. p. 4647; Gaz. vol. 139; p. 833.  
 Refrigerator. G. M. Walker. No. 915,515; Mar. 16; Sp. p. 3814; Gaz. vol. 140; p. 663.  
 Refrigerator. J. B. Dunkle. No. 916,282; Mar. 23; Sp. p. 5324; Gaz. vol. 140; p. 943.  
 Refrigerator. M. A. Moody. No. 917,638; Apr. 6; Sp. p. 1314; Gaz. vol. 141; p. 231.  
 Refrigerator. C. Doering, Jr. No. 918,977; Apr. 20; Sp. p. 4211; Gaz. vol. 141; p. 735.  
 Refrigerator. E. A. Kroenke. No. 919,030; Apr. 20; Sp. p. 4303; Gaz. vol. 141; p. 752.  
 Refrigerator. A. V. Rowe. No. 925,727; June 22; Sp. p. 5115; Gaz. vol. 143; p. 962.  
 Refrigerator. W. A. Merralls. No. 927,571; July 13; Sp. p. 1771; Gaz. vol. 144; p. 317.  
 Refrigerator. J. C. Kelly. No. 930,190; Aug. 3; Sp. p. 1189; Gaz. vol. 145; p. 194.



*Alphabetical list of inventions—Continued.*

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 Refrigerator. W. E. Urquhart. No. 933,141; Sept. 7; Sp. p. 212; Gaz. vol. 146; p. 36.  
 Refrigerator. W. Fryzek. No. 933,546; Sept. 7; Sp. p. 1204; Gaz. vol. 146; p. 175.  
 Refrigerator. J. Pfanz. No. 934,011; Sept. 14; Sp. p. 2122; Gaz. vol. 146; p. 550.  
 Refrigerator. W. T. Nicholls. No. 937,635; Oct. 19; Sp. p. 4245; Gaz. vol. 147; p. 723.  
 Refrigerator. E. F. Cramer. No. 939,891; Nov. 9; Sp. p. 3166; Gaz. vol. 147; p. 522.  
 Refrigerator. W. H. Young. No. 940,416; Nov. 16; Sp. p. 4393; Gaz. vol. 148; p. 735.  
 Refrigerator. J. H. Manor. No. 940,700; Nov. 23; Sp. p. 5003; Gaz. vol. 148; p. 854.  
 Refrigerator. W. N. Amsbury. No. 944,353; Dec. 28; Sp. p. 4970; Gaz. vol. 149; p. 876.  
 Refrigerator. E. W. Mitchell. No. 944,369; Dec. 28; Sp. p. 5007; Gaz. vol. 149; p. 881.  
 Refrigerator-can. G. M. Drisdale. No. 929,408; July 27; Sp. p. 5630; Gaz. vol. 144; p. 987.  
 Refrigerator-car. W. R. Stokely. No. 927,820; July 13; Sp. p. 2326; Gaz. vol. 144; p. 401.  
 Refrigerator-car. J. M. Borrowdale and J. Strain. No. 938,958; Nov. 2; Sp. p. 1108; Gaz. vol. 148; p. 177.  
 Refrigerator-car. H. Pries. No. 939,315; Nov. 9; Sp. p. 1916; Gaz. vol. 148; p. 326.  
 Refrigerator-car. A. G. Brown. No. 940,124; Nov. 16; Sp. p. 3722; Gaz. vol. 148; p. 634.  
 Refrigerator-cars, Floor construction for. J. Strain. No. 928,406; July 20; Sp. p. 3556; Gaz. vol. 144; p. 629.  
 Refrigerator drip-cup. A. May. No. 932,878; Aug. 31; Sp. p. 6864; Gaz. vol. 145; p. 1178.  
 Refrigerator drip-pans, Automatic alarm for. J. F. Phillips. No. 939,311; Nov. 9; Sp. p. 1911; Gaz. vol. 148; p. 325.  
 Refrigerator, Locker-. R. L. Tilghman. No. 938,620; Nov. 2; Sp. p. 395; Gaz. vol. 148; p. 59.  
 Refrigerator or cold-storage room. E. J. Wirs. No. 944,117; Dec. 21; Sp. p. 4487; Gaz. vol. 149; p. 771.  
 Refrigerator or cooler. C. Hinrichs. No. 909,597; Jan. 12; Sp. p. 2347; Gaz. vol. 138; p. 416.  
 Refrigerator, Window-. C. C. Hatcher. No. 935,021; Sept. 28; Sp. p. 4111; Gaz. vol. 146; p. 737.  
 Refrigerators, Ice-chamber for. W. H. Carter. No. 923,624; June 1; Sp. p. 1147; Gaz. vol. 143; p. 176.  
 Refuse-burner. B. Fox. No. 920,312; May 4; Sp. p. 465; Gaz. vol. 142; p. 72.  
 Refuse-burner, garbage and ash receptacle, Combined. W. M. Hooper. No. 930,475; Aug. 10; Sp. p. 1713; Gaz. vol. 145; p. 310.  
 Refuse-can. E. Sandstrom. No. 925,232; June 15; Sp. p. 4536; Gaz. vol. 143; p. 774.  
 Refuse-receptacle. V. Azzara. No. 934,262; Sept. 14; Sp. p. 2624; Gaz. vol. 146; p. 434.  
 Regenerative furnace. J. B. McKennan. No. 936,930; Oct. 12; Sp. p. 2757; Gaz. vol. 147; p. 461.  
 Regenerative furnace. E. Kirchberg. No. 944,444; Dec. 28; Sp. p. 5173; Gaz. vol. 149; p. 907.  
 Regenerative reversing-furnace. L. L. Knox. No. 938,246; Oct. 26; Sp. p. 5544; Gaz. vol. 147; p. 947.  
 Regenerative reversing-furnace. L. L. Knox. No. 938,426; Oct. 26; Sp. p. 5945; Gaz. vol. 147; p. 1008.  
 Register. *See* Account-register; Autographic register; Barber's register; Cash-register; Clock-register; Distant register; Expense-register; Fare-register; Filing-register; Foot-register; Game-register; Hot-air register; Passenger-register; Pool-register; Sales and cash register; School-register; Seat-register; Shipping-bill register; Telephone-register; Vehicle fare-register.  
 Register. C. W. Wipfler. No. 911,102; Feb. 2; Sp. p. 153; Gaz. vol. 139; p. 29.  
 Register. J. Frick. No. 922,876; May 25; Sp. p. 5755; Gaz. vol. 142; p. 1003.  
 Register. T. N. Horner. No. 925,636; June 22; Sp. p. 5312; Gaz. vol. 143; p. 934.  
 Register-hook. F. W. Weston. No. 930,582; Aug. 10; Sp. p. 1973; Gaz. vol. 145; p. 347.  
 Register or ventilator. E. D. House. No. 941,367; Nov. 30; Sp. p. 6444; Gaz. vol. 148; p. 1097.  
 Register or ventilator. H. S. Hart. No. 941,413; Nov. 30; Sp. p. 6569; Gaz. vol. 148; p. 1114.  
 Register-securing means. J. J. and S. P. Burgess. No. 935,187; Sept. 28; Sp. p. 4449; Gaz. vol. 146; p. 792.  
 Register stand and cabinet, Revolving. J. F. Woolsey. No. 936,281; Oct. 5; Sp. p. 1399; Gaz. vol. 147; p. 216.  
 Registers, Wall-frame for air-. R. C. Brown. No. 943,298; Dec. 14; Sp. p. 2725; Gaz. vol. 149; p. 460.  
 Registering and calculating machine, Expense. J. G. Ferguson, Jr. No. 930,595; Aug. 10; Sp. p. 2004; Gaz. vol. 145; p. 351.  
 Registering apparatus. R. North. No. 939,296; Nov. 9; Sp. p. 1860; Gaz. vol. 148; p. 319.  
 Registering device. E. Nicholson. No. 927,065; July 6; Sp. p. 774; Gaz. vol. 144; p. 123.  
 Registering device. R. Hunter. (Reissue.) No. 13,052; Dec. 7; Sp. p. 1782; Gaz. vol. 149; p. 287.  
 Registering-machine driving mechanism. C. F. Kettering. No. 910,690; Jan. 26; Sp. p. 4624; Gaz. vol. 138; p. 841.  
 Registering-machine keyboard mechanism. T. Carroll. No. 909,866; Jan. 19; Sp. p. 2886; Gaz. vol. 138; p. 538.  
 Registering-machine keyboard mechanism. T. Carroll. No. 909,867; Jan. 19; Sp. p. 2891; Gaz. vol. 138; p. 538.  
 Registering mechanism. F. L. Cross. No. 912,544; Feb. 16; Sp. p. 3151; Gaz. vol. 139; p. 565.  
 Registering mechanism, Device for the protection of. T. Muller. No. 922,019; May 18; Sp. p. 3978; Gaz. vol. 142; p. 696.  
 Registering mechanisms, Stop device for. C. F. Littlejohn. No. 944,242; Dec. 21; Sp. p. 4724; Gaz. vol. 149; p. 809.  
 Registering the mean working pressure, Indicator for continuously. M. Arndt. No. 922,553; May 25; Sp. p. 5057; Gaz. vol. 142; p. 898.  
 Registry-certificate. L. Wise. No. 934,643; Sept. 21; Sp. p. 3368; Gaz. vol. 146; p. 587.  
 Regulating device. W. D. Hodgson. No. 917,067; Apr. 6; Sp. p. 208; Gaz. vol. 141; p. 39.  
 Regulator. *See* Air-brake regulator; Battery-discharge regulator; Centrifugal regulator; Controller-regulator; Current-regulator; Damper-regulator; Draft-regulator; Electric regulator; Electric-current regulator; Electric current and voltage regulator; Electrothermostatic regulator; Engine-regulator; Feed-regulator; Feed-water regulator; Fluid-pressure regulator; Furnace-regulator; Gas-regulator; Gas-jet regulator; Gas-pressure regulator; Governor-regulator; Heat-regulator; Heating-system regulator; Ignition-regulator; Incubator-regulator; Lamp-light regulator; Musical-instrument regulator; Overheat-regulator; Powdered-material feed-regulator; Pressure-regulator; Pressure-controlled regulator; Pulp-feed regulator; Skirt-regulator; Sound-regulator; Speed-regulator; Stove-regulator; Temperature-regulator; Thermostatic regulator; Turbine-regulator; Valve-regulator; Voltage-regulator; Windmill-regulator.  
 Regulator. W. F. Krichbaum. No. 910,292; Jan. 19; Sp. p. 3805; Gaz. vol. 138; p. 685.  
 Regulator. G. W. Collin. No. 914,115; Mar. 2; Sp. p. 984; Gaz. vol. 140; p. 155.  
 Regulator. R. S. Dimond. No. 938,372; Oct. 26; Sp. p. 5826; Gaz. vol. 147; p. 989.  
 Regulator for producers. P. G. Schmidt. No. 909,949; Jan. 19; Sp. p. 3058; Gaz. vol. 138; p. 567.  
 Rein and hitching-strap holder. W. L. Kunkel. No. 935,999; Oct. 5; Sp. p. 849; Gaz. vol. 147; p. 127.  
 Rein-guide. W. M. Kayser. No. 926,573; June 29; Sp. p. 7226; Gaz. vol. 143; p. 1277.  
 Rein-holder. H. J. Yount. No. 915,528; Mar. 16; Sp. p. 3836; Gaz. vol. 140; p. 667.  
 Rein-holder. T. A. Jones. No. 915,771; Mar. 23; Sp. p. 4391; Gaz. vol. 140; p. 779.  
 Rein-holder. A. Bing. No. 943,376; Dec. 14; Sp. p. 2889; Gaz. vol. 149; p. 486.  
 Rein-holder. H. Green. No. 943,537; Dec. 14; Sp. p. 3227; Gaz. vol. 149; p. 543.  
 Rein-holder. H. F. Schmeckpeper. No. 944,216; Dec. 21; Sp. p. 4669; Gaz. vol. 149; p. 800.  
 Rein-holder and holdback, Combined. C. P. Kertell. No. 935,520; Sept. 28; Sp. p. 5127; Gaz. vol. 146; p. 901.  
 Rein or neck-strap line-terret. S. E. Harsh. No. 931,298; Aug. 17; Sp. p. 3560; Gaz. vol. 145; p. 614.  
 Reinforced fabric, Unwoven. E. D. C. Bayne and L. A. Subers. No. 940,779; Nov. 23; Sp. p. 5190; Gaz. vol. 148; p. 881.  
 Reinforcement-bar. W. G. Hughes. No. 943,878; Dec. 21; Sp. p. 3963; Gaz. vol. 149; p. 688.  
 Reinforcing-bar. A. E. Lindau. No. 931,322; Aug. 17; Sp. p. 3607; Gaz. vol. 145; p. 622.  
 Reinforcing-bar. T. W. Jenks. No. 939,962; Nov. 9; Sp. p. 3322; Gaz. vol. 148; p. 548.  
 Reinforcing device. W. F. Kerlin and E. W. Bowen. No. 926,005; June 22; Sp. p. 6093; Gaz. vol. 143; p. 1054.  
 Reinforcing device. W. F. Kerlin and E. W. Bowen. No. 926,006; June 22; Sp. p. 6095; Gaz. vol. 143; p. 1054.  
 Relay. J. P. Buchanan and F. B. Wiegand. No. 909,146; Jan. 12; Sp. p. 1482; Gaz. vol. 138; p. 269.  
 Relay. E. McClintock. No. 911,746; Feb. 9; Sp. p. 1426; Gaz. vol. 139; p. 265.  
 Relay. F. B. Corey. No. 912,079; Feb. 9; Sp. p. 2167; Gaz. vol. 139; p. 375.  
 Relay. L. H. Thullen. No. 916,505; Mar. 30; Sp. p. 5800; Gaz. vol. 140; p. 1044.  
 Relay. S. Cabot. No. 916,840; Mar. 30; Sp. p. 6428; Gaz. vol. 140; p. 1148.  
 Relay. G. H. Hill. No. 919,578; Apr. 27; Sp. p. 5635; Gaz. vol. 141; p. 968.  
 Relay. F. L. Dodgson. No. 920,036; Apr. 27; Sp. p. 6571; Gaz. vol. 141; p. 1120.  
 Relay. H. C. Rice. No. 922,192; May 18; Sp. p. 4308; Gaz. vol. 142; p. 751.  
 Relay. A. S. Cubitt. No. 923,247; June 1; Sp. p. 263; Gaz. vol. 143; p. 44.  
 Relay. E. McClintock. No. 923,874; June 8; Sp. p. 1738; Gaz. vol. 143; p. 289.  
 Relay. R. H. Manson. No. 927,739; July 13; Sp. p. 2152; Gaz. vol. 144; p. 373.  
 Relay. E. R. Brodton. No. 928,104; July 13; Sp. p. 2892; Gaz. vol. 144; p. 494.  
 Relay. F. R. McBerty. No. 929,319; July 27; Sp. p. 5465; Gaz. vol. 144; p. 959.  
 Relay. F. B. Corey. No. 929,393; July 27; Sp. p. 5603; Gaz. vol. 144; p. 982.  
 Relay. J. F. Webb, Jr. No. 929,525; July 27; Sp. p. 5828; Gaz. vol. 144; p. 1024.  
 Relay. J. Erickson. No. 929,844; Aug. 3; Sp. p. 477; Gaz. vol. 145; p. 76.  
 Relay. J. M. Long. No. 930,552; Aug. 10; Sp. p. 1914; Gaz. vol. 145; p. 337.  
 Relay. T. W. Gleason. No. 941,709; Nov. 30; Sp. p. 7186; Gaz. vol. 148; p. 1211.  
 Relay. E. R. Corwin and C. A. Bals. No. 941,761; Nov. 30; Sp. p. 7295; Gaz. vol. 148; p. 1229.  
 Relay. S. D. Field. No. 942,815; Dec. 7; Sp. p. 1611; Gaz. vol. 149; p. 264.

*Alphabetical list of inventions—Continued.*

- Relay and making the same. J. S. Pevear. No. 923,202; June 1; Sp. p. 175; Gaz. vol. 143; p. 28.
- Relay, Cable-. I. Kitsee. No. 922,780; May 25; Sp. p. 5522; Gaz. vol. 142; p. 971.
- Relay device for electric circuits. C. A. Palmgren. No. 919,066; Apr. 20; Sp. p. 4365; Gaz. vol. 141; p. 762.
- Relay device, Overload and reverse current. F. Conrad. No. 933,746; Sept. 14; Sp. p. 1615; Gaz. vol. 146; p. 266.
- Relay device, Overload and reverse current. F. Conrad. No. 934,390; Sept. 14; Sp. p. 2863; Gaz. vol. 146; p. 478.
- Relay device, Overload and reverse current. F. Conrad. No. 934,391; Sept. 14; Sp. p. 2867; Gaz. vol. 146; p. 478.
- Relay, Electrical. E. E. Clement. No. 928,360; July 20; Sp. p. 3471; Gaz. vol. 144; p. 612.
- Relay, Electromagnetic. D. I. Garretson. No. 939,409; Nov. 9; Sp. p. 2151; Gaz. vol. 148; p. 357.
- Relay, Frequency-. D. J. McCarthy. No. 928,531; July 20; Sp. p. 3809; Gaz. vol. 144; p. 667.
- Relay mechanism. S. B. Fowler. No. 931,854; Aug. 24; Sp. p. 4716; Gaz. vol. 145; p. 817.
- Relay, Mercury-contact. C. F. A. Schuldt and F. H. Nicholson. No. 937,098; Oct. 19; Sp. p. 3104; Gaz. vol. 147; p. 546.
- Relay, Meter-. H. S. Baker. No. 926,312; June 29; Sp. p. 6750; Gaz. vol. 143; p. 1190.
- Relay, Overload and reverse current. P. O. Keilholtz and F. E. Ricketts. No. 944,040; Dec. 21; Sp. p. 4318; Gaz. vol. 149; p. 744.
- Relay, Polarized. H. J. Roberts, C. A. Soans, and A. H. Graves. No. 916,373; Mar. 23; Sp. p. 5487; Gaz. vol. 140; p. 974.
- Relay, Polarized. P. Ribbe. No. 918,199; Apr. 13; Sp. p. 2512; Gaz. vol. 141; p. 449.
- Relay, Polarized. R. L. Dean. No. 922,099; May 18; Sp. p. 4130; Gaz. vol. 142; p. 722.
- Relay, Safety-. F. L. Dodgson. No. 934,896; Sept. 21; Sp. p. 3857; Gaz. vol. 146; p. 669.
- Relay, Self-locking. J. F. Keely. No. 938,588; Nov. 2; Sp. p. 335; Gaz. vol. 148; p. 49.
- Relay transformer, Monotelephone-. P. E. Heina. No. 930,753; Aug. 10; Sp. p. 2323; Gaz. vol. 145; p. 403.
- Releasing device. C. Hunt. No. 931,122; Aug. 17; Sp. p. 3153; Gaz. vol. 145; p. 552.
- Releasing device, Automatic. F. M. Wells. No. 936,202; Oct. 5; Sp. p. 1252; Gaz. vol. 147; p. 190.
- Releasing mechanism. F. Gundorph. No. 919,716; Apr. 27; Sp. p. 5911; Gaz. vol. 141; p. 1015.
- Remainable box. H. W. Randall. No. 910,576; Jan. 26; Sp. p. 4400; Gaz. vol. 138; p. 806.
- Remedy for eczema. W. N. Ringer. No. 925,947; June 22; Sp. p. 5991; Gaz. vol. 143; p. 1035.
- Remedy, Topical. R. von Foregger. No. 916,692; Mar. 30; Sp. p. 6163; Gaz. vol. 140; p. 1104.
- Renovating system. G. Clements and J. M. Hostler. No. 928,940; July 27; Sp. p. 4632; Gaz. vol. 144; p. 831.
- Renovator. J. H. Brown. No. 933,526; Sept. 7; Sp. p. 1170; Gaz. vol. 146; p. 168.
- Renovator, Pneumatic. A. T. Noe. No. 918,896; Apr. 20; Sp. p. 4038; Gaz. vol. 141; p. 709.
- Repair device, Adhesive. W. N. Shelton. No. 941,047; Nov. 23; Sp. p. 5745; Gaz. vol. 148; p. 970.
- Replanter, Corn-. C. A. Lonnecker. No. 935,528; Sept. 28; Sp. p. 5142; Gaz. vol. 146; p. 904.
- Replenishing device. J. Chandler. No. 938,557; Nov. 2; Sp. p. 264; Gaz. vol. 148; p. 39.
- Rerailer. G. C. Headley. No. 932,985; Aug. 31; Sp. p. 7056; Gaz. vol. 145; p. 1213.
- Rerailer. O. B. Grant. No. 938,845; Nov. 2; Sp. p. 845; Gaz. vol. 148; p. 136.
- Resolving metal shapes from old railway-rails. J. E. York. No. 938,197; Oct. 26; Sp. p. 5446; Gaz. vol. 147; p. 930.
- Resawing-machine. H. J. Gilbert. No. 939,903; Nov. 9; Sp. p. 3190; Gaz. vol. 148; p. 527.
- Resawing-machine, Horizontal band. F. T. McDonough. No. 935,805; Oct. 5; Sp. p. 422; Gaz. vol. 147; p. 62.
- Resawing-trap. H. J. Luff. No. 927,419; July 6; Sp. p. 1439; Gaz. vol. 144; p. 239.
- Reservoir, Elevated water-. E. Boermel. No. 929,542; July 27; Sp. p. 5862; Gaz. vol. 144; p. 1030.
- Resilient connection. J. E. Webster. No. 937,346; Oct. 19; Sp. p. 3640; Gaz. vol. 147; p. 626.
- Resilient wheel. A. F. Glaser and J. Olsen. No. 912,305; Feb. 16; Sp. p. 2641; Gaz. vol. 139; p. 485.
- Resilient wheel. R. Gagnard. No. 913,819; Mar. 2; Sp. p. 291; Gaz. vol. 140; p. 50.
- Resilient wheel. F. J. Poths. No. 915,884; Mar. 23; Sp. p. 4587; Gaz. vol. 140; p. 814.
- Resilient wheel. G. M. Eaton. No. 917,855; Apr. 13; Sp. p. 1790; Gaz. vol. 141; p. 329.
- Resilient wheel. F. C. Thomas. No. 920,690; May 4; Sp. p. 1218; Gaz. vol. 142; p. 196.
- Resilient wheel. J. and C. Reuse. No. 924,283; May 11; Sp. p. 2438; Gaz. vol. 142; p. 424.
- Resilient wheel. W. L. Martin. No. 927,154; July 6; Sp. p. 941; Gaz. vol. 144; p. 153.
- Resilient wheel. J. Edman. No. 932,976; Aug. 31; Sp. p. 7041; Gaz. vol. 145; p. 1210.
- Resilient wheel. J. Rountree. No. 939,748; Nov. 9; Sp. p. 2874; Gaz. vol. 148; p. 473.
- Resin and turpentine, Extracting. G. Walker. No. 922,369; May 18; Sp. p. 4659; Gaz. vol. 142; p. 808.
- Resin from rubber, Solution for and method of extracting. C. P. Flora. No. 933,638; Sept. 7; Sp. p. 1376; Gaz. vol. 146; p. 206.
- Resin-like product, New. C. Gentsch. No. 924,449; June 8; Sp. p. 2915; Gaz. vol. 143; p. 477.
- Resinous matter, Recovering. W. J. Hough. No. 931,608; Aug. 17; Sp. p. 4140; Gaz. vol. 145; p. 713.
- Resistance. J. L. Dinsmoor. No. 910,795; Jan. 26; Sp. p. 4843; Gaz. vol. 138; p. 875.
- Resistance. T. von Zweigbergk. No. 912,267; Feb. 9; Sp. p. 2524; Gaz. vol. 139; p. 434.
- Resistance-cup. F. Gottschalk. No. 928,652; July 20; Sp. p. 4061; Gaz. vol. 144; p. 707.
- Resistance device for the rebound of vehicle-springs, Adjustable. G. N. Scott. No. 915,227; Mar. 16; Sp. p. 3257; Gaz. vol. 140; p. 569.
- Resistance material. H. Gelsenhöner. No. 920,861; May 4; Sp. p. 1556; Gaz. vol. 142; p. 251.
- Resistance unit. H. E. Heath. No. 918,547; Apr. 20; Sp. p. 3237; Gaz. vol. 141; p. 590.
- Resistance unit. H. W. Leonard. No. 938,671; Nov. 2; Sp. p. 506; Gaz. vol. 148; p. 77.
- Resistance unit. H. E. Heath. No. 940,151; Nov. 16; Sp. p. 3773; Gaz. vol. 148; p. 643.
- Resistance, Variable. E. Thomson. No. 910,743; Jan. 26; Sp. p. 4730; Gaz. vol. 138; p. 859.
- Resizer. F. W. Moore. No. 942,921; Dec. 14; Sp. p. 1902; Gaz. vol. 149; p. 332.
- Resonator. P. E. Finlay. No. 927,959; July 13; Sp. p. 2631; Gaz. vol. 144; p. 447.
- Respirator. N. Lambert. No. 909,002; Jan. 5; Sp. p. 1175; Gaz. vol. 138; p. 187.
- Respirator. W. Bucklen, Jr. No. 913,688; Mar. 2; Sp. p. 17; Gaz. vol. 140; p. 6.
- Respirator. G. F. Jaubert. No. 914,576; Mar. 9; Sp. p. 1935; Gaz. vol. 140; p. 330.
- Respirator. W. F. Merryman. No. 926,671; June 29; Sp. p. 7423; Gaz. vol. 143; p. 1309.
- Respirator and inhaler, Combined. H. Brat. No. 912,532; Feb. 16; Sp. p. 3124; Gaz. vol. 139; p. 561.
- Respiratory apparatus. E. E. Zerkle. No. 909,979; Jan. 19; Sp. p. 3122; Gaz. vol. 138; p. 577.
- Respiratory apparatus. J. Tissot. No. 932,515; Aug. 31; Sp. p. 6103; Gaz. vol. 145; p. 1059.
- Rest, Steady-. B. M. W. Hanson. No. 915,175; Mar. 16; Sp. p. 3151; Gaz. vol. 140; p. 552.
- Reticule. E. Lazarovich-Hreblianovich. No. 931,627; Aug. 17; Sp. p. 4195; Gaz. vol. 145; p. 719.
- Retinning-machine. A. L. Bernardin. No. 928,172; July 13; Sp. p. 3028; Gaz. vol. 144; p. 517.
- Retort. R. Bennett. No. 912,644; Feb. 16; Sp. p. 3346; Gaz. vol. 139; p. 600.
- Retort. L. Augustin. No. 924,305; June 8; Sp. p. 2647; Gaz. vol. 143; p. 430.
- Retort and shaker and cooler, Combined. J. S. Guibbini. No. 915,428; Mar. 16; Sp. p. 3652; Gaz. vol. 140; p. 636.
- Retort-bench. D. R. Russell. No. 930,494; Aug. 10; Sp. p. 1748; Gaz. vol. 145; p. 315.
- Retort-charger. A. S. B. Little. No. 937,829; Oct. 26; Sp. p. 4651; Gaz. vol. 147; p. 805.
- Retort-charging apparatus. J. A. Murphy. No. 916,578; Mar. 30; Sp. p. 5949; Gaz. vol. 140; p. 1067.
- Retort-charging apparatus. C. Eitle. No. 944,959; Dec. 28; Sp. p. 6294; Gaz. vol. 149; p. 1081.
- Retort-closure. P. Plantinga. No. 911,524; Feb. 2; Sp. p. 954; Gaz. vol. 139; p. 166.
- Retort, Continuous vertical. D. R. Russell. No. 917,363; Apr. 6; Sp. p. 827; Gaz. vol. 141; p. 141.
- Retort for the destructive distillation of resinous woods. P. Brown. No. 917,531; Apr. 6; Sp. p. 1122; Gaz. vol. 141; p. 196.
- Retort-furnace. E. Schmatolla. No. 940,199; Nov. 16; Sp. p. 3887; Gaz. vol. 148; p. 600.
- Retorts and the like, Measuring feed device for. M. Bittrich. No. 938,954; Nov. 2; Sp. p. 1103; Gaz. vol. 148; p. 176.
- Reversible die. W. J. MacFarland and W. G. Eaton. No. 916,930; Mar. 30; Sp. p. 6609; Gaz. vol. 140; p. 1178.
- Reversing apparatus. G. Schulz. No. 931,501; Aug. 17; Sp. p. 3958; Gaz. vol. 145; p. 682.
- Reversing device. C. H. Norton, J. C. Spence, and H. N. Cudworth. No. 940,549; Nov. 16; Sp. p. 4682; Gaz. vol. 148; p. 779.
- Reversing furnace, Regenerative. L. L. Knox. No. 919,185; Apr. 20; Sp. p. 4589; Gaz. vol. 141; p. 801.
- Reversing mechanism. F. Snow. No. 912,196; Feb. 9; Sp. p. 2377; Gaz. vol. 139; p. 410.
- Reversing mechanism. H. A. Budde. No. 912,360; Feb. 16; Sp. p. 2759; Gaz. vol. 139; p. 502.
- Reversing mechanism. J. Esser. No. 919,562; Apr. 27; Sp. p. 5601; Gaz. vol. 141; p. 962.
- Reversing mechanism. F. J. Ball. No. 924,956; June 15; Sp. p. 3984; Gaz. vol. 143; p. 681.
- Reversing mechanism. V. H. Palm. No. 934,343; Sept. 14; Sp. p. 2775; Gaz. vol. 146; p. 461.
- Reversing mechanism. F. J. Ball. No. 936,694; Oct. 12; Sp. p. 2308; Gaz. vol. 147; p. 383.
- Reversing mechanism. J. Petrelli. No. 937,091; Oct. 19; Sp. p. 3091; Gaz. vol. 147; p. 543.
- Reversing mechanism. J. C. Ross. No. 941,275; Nov. 23; Sp. p. 6251; Gaz. vol. 148; p. 1046.
- Reversing mechanism, Automatic. H. O. Evans. No. 938,997; Nov. 2; Sp. p. 1185; Gaz. vol. 148; p. 189.
- Reversing mechanism, Automatic. E. Einfeldt. No. 944,604; Dec. 28; Sp. p. 5560; Gaz. vol. 149; p. 964.
- Reversing-switch. J. Dalziel. No. 915,053; Mar. 9; Sp. p. 2862; Gaz. vol. 140; p. 485.
- Revetment, Reinforced. J. H. Taylor. No. 929,728; Aug. 3; Sp. p. 190; Gaz. vol. 145; p. 33.
- Revolver. W. B. McCarty. No. 913,756; Mar. 2; Sp. p. 168; Gaz. vol. 140; p. 28.



*Alphabetical list of inventions—Continued.*

- Revolver. E. Leggett. No. 933,188; Sept. 7; Sp. p. 339; Gaz. vol. 146; p. 54.  
 Revolver. T. M. Du Bose. No. 943,819; Dec. 21; Sp. p. 3843; Gaz. vol. 149; p. 668.  
 Revolver-frame clamp. J. H. Wesson. No. 923,915; June 8; Sp. p. 1814; Gaz. vol. 143; p. 302.  
 Revolver-loader. M. J. Kellogg. No. 913,393; Feb. 23; Sp. p. 4882; Gaz. vol. 139; p. 874.  
 Revolver, Self-cocking. C. M. Stone. No. 933,797; Sept. 14; Sp. p. 1696; Gaz. vol. 146; p. 281.  
 Revolving and sliding chair. R. W. Butcher and J. L. Perrin. No. 909,751; Jan. 12; Sp. p. 2661; Gaz. vol. 138; p. 469.  
 Revolving furnace for volatilizing zinc ores. H. H. Hughes. No. 920,143; May 4; Sp. p. 103; Gaz. vol. 142; p. 15.  
 Revolving stand. F. N. Robinson. No. 931,960; Aug. 24; Sp. p. 4975; Gaz. vol. 145; p. 852.  
 Revolving stand. F. N. Robinson. No. 931,961; Aug. 24; Sp. p. 4976; Gaz. vol. 145; p. 852.  
 Rewinding mechanism. H. Meyer. No. 923,549; June 1; Sp. p. 961; Gaz. vol. 143; p. 149.  
 Rheostat. W. C. Yates. No. 910,478; Jan. 19; Sp. p. 4193; Gaz. vol. 138; p. 749.  
 Rheostat. L. S. Chapman. No. 917,000; Apr. 6; Sp. p. 71; Gaz. vol. 141; p. 16.  
 Rheostat. F. H. Zimmer. No. 917,700; Apr. 6; Sp. p. 1433; Gaz. vol. 141; p. 252.  
 Rheostat. H. E. Heath. No. 919,575; Apr. 27; Sp. p. 5630; Gaz. vol. 141; p. 967.  
 Rheostat. F. H. Zimmer. No. 925,069; June 15; Sp. p. 4217; Gaz. vol. 143; p. 718.  
 Rheostat. W. G. Abbott, Jr. No. 925,551; June 22; Sp. p. 5135; Gaz. vol. 143; p. 905.  
 Rheostat. H. D. James. No. 926,254; June 29; Sp. p. 6646; Gaz. vol. 143; p. 1173.  
 Rheostat. C. R. Meston and H. E. Finch. No. 928,394; July 20; Sp. p. 3533; Gaz. vol. 144; p. 624.  
 Rheostat. R. E. Noble and L. E. Mitchell. No. 929,001; July 27; Sp. p. 4754; Gaz. vol. 144; p. 851.  
 Rheostat. H. T. Jones. No. 934,973; Sept. 21; Sp. p. 4015; Gaz. vol. 146; p. 698.  
 Rheostat. G. H. Dorgeloh. No. 941,441; Nov. 30; Sp. p. 6621; Gaz. vol. 148; p. 1121.  
 Rheostat. H. L. Truesdale. No. 944,060; Dec. 21; Sp. p. 4360; Gaz. vol. 149; p. 751.  
 Rheostat. R. Head. No. 944,785; Dec. 28; Sp. p. 5936; Gaz. vol. 149; p. 1024.  
 Rheostat and controlling device. H. D. James. No. 925,341; June 15; Sp. p. 4718; Gaz. vol. 143; p. 805.  
 Rheostat, Multiple-switch. O. S. Schairer. No. 931,148; Aug. 17; Sp. p. 3222; Gaz. vol. 145; p. 562.  
 Rheostat, Starting-. P. H. Zimmer. No. 919,998; Apr. 27; Sp. p. 6486; Gaz. vol. 141; p. 1108.  
 Ribbon-attaching device. A. S. Wheeler. No. 930,327; Aug. 3; Sp. p. 1417; Gaz. vol. 145; p. 235.  
 Ribbon, &c., displaying device. H. Wixon. No. 911,280; Feb. 2; Sp. p. 513; Gaz. vol. 139; p. 88.  
 Ribbon fastener, Hair-. W. E. Lemerand. No. 916,339; Mar. 23; Sp. p. 5425; Gaz. vol. 140; p. 964.  
 Ribbon-feed mechanism. C. M. Crook. No. 941,130; Nov. 23; Sp. p. 5931; Gaz. vol. 148; p. 998.  
 Ribbon-feeding mechanism. R. B. Craig and A. Coffman. No. 943,624; Dec. 14; Sp. p. 3434; Gaz. vol. 149; p. 573.  
 Ribbon-holder. J. W. Beck. No. 909,522; Jan. 12; Sp. p. 2204; Gaz. vol. 138; p. 391.  
 Ribbon mechanism. E. G. Latta. No. 934,677; Sept. 21; Sp. p. 3426; Gaz. vol. 146; p. 598.  
 Ribbon pin, Hair-. W. M. Yeomans. No. 926,450; June 29; Sp. p. 7017; Gaz. vol. 143; p. 1236.  
 Ribbon rack and measurer. E. A. Hooton. No. 914,275; Mar. 2; Sp. p. 1322; Gaz. vol. 140; p. 204.  
 Ribbon-reversing mechanism. Automatic ink-. R. E. Benner. No. 941,554; Nov. 30; Sp. p. 6840; Gaz. vol. 148; p. 1158.  
 Ribbon-roll clasp or guard. T. H. O'Brien. No. 914,449; Mar. 9; Sp. p. 1682; Gaz. vol. 140; p. 288.  
 Ribbon-shifting mechanism. C. Spiro. No. 935,280; Sept. 28; Sp. p. 4633; Gaz. vol. 146; p. 823.  
 Rice-huller. D. J. Hayes. No. 918,048; Apr. 13; Sp. p. 2211; Gaz. vol. 141; p. 398.  
 Rice-hulling machine. G. H. A. Lyford. No. 926,991; July 6; Sp. p. 582; Gaz. vol. 144; p. 96.  
 Riddle or sieve. F. Martin and M. V. Haskins. No. 940,338; Nov. 16; Sp. p. 4203; Gaz. vol. 148; p. 708.  
 Ridge-roll. T. H. and F. W. Martin. No. 934,329; Sept. 14; Sp. p. 2750; Gaz. vol. 146; p. 456.  
 Rifle, Automatic. J. Warnant-Créon. No. 908,631; Jan. 5; Sp. p. 418; Gaz. vol. 138; p. 67.  
 Rifle-barrel construction. A. J. Aubrey. No. 918,491; Apr. 20; Sp. p. 3120; Gaz. vol. 141; p. 573.  
 Rifle, Magazine-. J. J. Catron. No. 920,912; May 11; Sp. p. 1675; Gaz. vol. 142; p. 298.  
 Rifle, Magazine-. W. G. Kramer. No. 925,350; June 15; Sp. p. 4740; Gaz. vol. 143; p. 809.  
 Rifle practice, Sand-box for. H. P. Maxim. No. 941,642; Nov. 30; Sp. p. 7017; Gaz. vol. 148; p. 1187.  
 Rifle rear sight. W. R. Hatfield. No. 943,542; Dec. 14; Sp. p. 3235; Gaz. vol. 149; p. 545.  
 Rifle, Recoil-loading. P. Mauser. No. 918,760; Apr. 20; Sp. p. 3739; Gaz. vol. 141; p. 663.  
 Rifle-sight. E. E. Gibbs. No. 915,670; Mar. 16; Sp. p. 4171; Gaz. vol. 140; p. 719.  
 Rifle-sight. J. D. Pedersen. No. 936,807; Oct. 12; Sp. p. 2520; Gaz. vol. 147; p. 421.  
 Rifles and the like, Rod for cleaning. J. H. Blair. No. 933,285; Sept. 7; Sp. p. 582; Gaz. vol. 146; p. 89.  
 Rifles, Stock-magazine for single-shot. W. J. Rodgers. No. 919,641; Apr. 27; Sp. p. 5754; Gaz. vol. 141; p. 990.  
 Rim-compressor. A. F. Hansen. No. 914,949; Mar. 9; Sp. p. 2692; Gaz. vol. 140; p. 451.  
 Rim, Demountable. B. R. Tillson. No. 925,532; June 22; Sp. p. 5102; Gaz. vol. 143; p. 898.  
 Rim-engaging device. H. T. Andrew. No. 912,770; Feb. 16; Sp. p. 3656; Gaz. vol. 139; p. 644.  
 Rim holder, Spare-. B. B. Bradley. No. 941,341; Nov. 23; Sp. p. 6366; Gaz. vol. 148; p. 1065.  
 Rims, Means for attaching demountable. H. H. Ford. No. 940,243; Nov. 16; Sp. p. 3973; Gaz. vol. 148; p. 676.  
 Ring. See Collector-ring; Curtain-ring; Cylinder-ring; Ear-ring; Finger-ring; Furnace-casing ring; Hog-ring; Jai-closure ring; Key-ring; Napkin-ring; Packing-ring; Piston-ring; Spinning-ring; Traverse-ring; Valve-cover ring; Wheel-rim-locking ring; Yoke-ring.  
 Ring-clamp. F. C. Widmann. No. 941,832; Nov. 30; Sp. p. 7460; Gaz. vol. 148; p. 1254.  
 Ring-cutting tool, Finger-. W. Adelman. No. 933,043; Sept. 7; Sp. p. 1; Gaz. vol. 146; p. 3.  
 Ring or loop. R. J. Nicholson. No. 924,492; June 8; Sp. p. 3010; Gaz. vol. 143; p. 491.  
 Ring-snap, Spring. F. E. Forsell. No. 917,038; Apr. 6; Sp. p. 157; Gaz. vol. 141; p. 30.  
 Ring-traveler holding and delivering means. L. S. Burbank. No. 930,935; Aug. 10; Sp. p. 2707; Gaz. vol. 145; p. 463.  
 Ring-traveler holding and delivering means. J. C. Edwards. No. 931,690; Aug. 17; Sp. p. 4359; Gaz. vol. 145; p. 740.  
 Ring-travelers, Holding and delivering means for. L. S. Burbank. No. 928,303; July 20; Sp. p. 3369; Gaz. vol. 144; p. 593.  
 Ring-tray, Safety. C. E. Fowler. No. 914,563; Mar. 9; Sp. p. 1913; Gaz. vol. 140; p. 326.  
 Rings from tubes, Machine for turning. W. D. Mitchell. No. 938,013; Oct. 26; Sp. p. 5036; Gaz. vol. 147; p. 867.  
 Rings on bottles and other objects, Device for shrinking. R. Veeck. No. 934,951; Sept. 21; Sp. p. 3970; Gaz. vol. 146; p. 689.  
 Ringer, Harmonic. M. S. Conner. No. 915,334; Mar. 16; Sp. p. 3464; Gaz. vol. 140; p. 604.  
 Ringing and talking device, Selective. C. O. Sisler and L. D. Smiley. No. 927,816; July 13; Sp. p. 2318; Gaz. vol. 144; p. 400.  
 Ringing-key. K. Weman. No. 913,080; Feb. 23; Sp. p. 4242; Gaz. vol. 139; p. 768.  
 Ripping device. G. E. Post. No. 936,474; Oct. 12; Sp. p. 1852; Gaz. vol. 147; p. 307.  
 River-power, Means for utilizing. H. Flynn. No. 921,687; May 18; Sp. p. 3299; Gaz. vol. 142; p. 586.  
 Rivet. A. H. Farnell and S. Barron. No. 918,305; Apr. 13; Sp. p. 2727; Gaz. vol. 141; p. 484.  
 Rivet. E. B. Stimpson. No. 922,059; May 18; Sp. p. 4048; Gaz. vol. 142; p. 708.  
 Rivet. E. B. Stimpson. No. 935,331; Sept. 28; Sp. p. 4735; Gaz. vol. 146; p. 840.  
 Rivet. W. C. Bray. No. 938,116; Oct. 26; Sp. p. 5253; Gaz. vol. 147; p. 902.  
 Rivet. W. P. Bartel. No. 938,812; Nov. 2; Sp. p. 776; Gaz. vol. 148; p. 125.  
 Rivet. A. L. Eaton. No. 940,442; Nov. 16; Sp. p. 4449; Gaz. vol. 148; p. 744.  
 Rivet-ejector for heading-machines. A. C. Pilcher. No. 929,628; July 27; Sp. p. 6043; Gaz. vol. 144; p. 1057.  
 Rivet-feeding device. J. E. Peters. No. 942,864; Dec. 7; Sp. p. 1732; Gaz. vol. 149; p. 281.  
 Rivet-holder. H. E. Lau. No. 940,467; Nov. 16; Sp. p. 4497; Gaz. vol. 148; p. 752.  
 Rivet holding and driving chuck. D. C. Sassemann. No. 916,026; Mar. 23; Sp. p. 4861; Gaz. vol. 140; p. 861.  
 Rivet-machine rise-and-fall motion. E. S. Ingraham. No. 919,435; Apr. 27; Sp. p. 5315; Gaz. vol. 141; p. 919.  
 Rivet-setting machine. M. W. Wilkins. No. 918,624; Apr. 20; Sp. p. 3409; Gaz. vol. 141; p. 616.  
 Rivet-setting machine. A. R. Havener. No. 931,062; Aug. 17; Sp. p. 3036; Gaz. vol. 145; p. 533.  
 Rivet-spinning machine. W. P. Seng. No. 939,558; Nov. 9; Sp. p. 2452; Gaz. vol. 148; p. 406.  
 Rivet-spinning machine. W. P. Seng. No. 939,559; Nov. 9; Sp. p. 2454; Gaz. vol. 148; p. 407.  
 Rivets, Hand-tool for extracting. H. N. Summers and C. M. Cooper. No. 936,580; Oct. 12; Sp. p. 2069; Gaz. vol. 147; p. 343.  
 Riveter, Portable hand-. P. S. Moe. No. 918,351; Apr. 13; Sp. p. 2818; Gaz. vol. 141; p. 493.  
 Riveting-machine. G. Ermel. No. 912,297; Feb. 16; Sp. p. 2626; Gaz. vol. 139; p. 482.  
 Riveting-machine. W. H. Kennedy. No. 923,852; June 8; Sp. p. 1696; Gaz. vol. 143; p. 282.  
 Riveting-machine. J. A. Mosher. No. 928,783; July 20; Sp. p. 4306; Gaz. vol. 144; p. 751.  
 Riveting-machine. J. R. French. No. 930,952; Aug. 10; Sp. p. 2751; Gaz. vol. 145; p. 468.  
 Riveting-machine. R. Jay. No. 940,533; Nov. 16; Sp. p. 4634; Gaz. vol. 148; p. 773.  
 Riveting-machine. C. Greiner. No. 942,637; Dec. 7; Sp. p. 1264; Gaz. vol. 149; p. 207.  
 Riveting-stake, Adjustable. O. O. and F. Siegler. No. 935,555; Sept. 28; Sp. p. 5207; Gaz. vol. 146; p. 914.  
 Riveting turbine-bucket covers, Machine for. C. C. M. Mortensen. No. 917,100; Apr. 6; Sp. p. 280; Gaz. vol. 141; p. 51.  
 Road and building same. A. L. Barber. No. 915,062; Mar. 16; Sp. p. 2881; Gaz. vol. 140; p. 515.  
 Road and land leveling machine. W. Kaiser. No. 941,929; Nov. 30; Sp. p. 7645; Gaz. vol. 148; p. 1288.

*Alphabetical list of inventions—Continued.*

- Road and street construction. J. H. Amies. No. 941,548; Nov. 30; Sp. p. 6833; Gaz. vol. 148; p. 1157.  
 Road-bed. G. W. R. Culbertson. No. 918,289; Apr. 13; Sp. p. 2701; Gaz. vol. 141; p. 478.  
 Road-bed-cutting apparatus. L. D. Craig. No. 916,676; Mar. 30; Sp. p. 6133; Gaz. vol. 140; p. 1098.  
 Road-bed-cutting apparatus. L. D. Craig. (Reissue.) No. 13,055; Dec. 14; Sp. p. 3486; Gaz. vol. 149; p. 579.  
 Road-bed equipment. J. D. Kneeder and J. C. McGarr. No. 919,183; Apr. 20; Sp. p. 4585; Gaz. vol. 141; p. 800.  
 Road construction. F. F. Williamson and D. Brennan, Jr. No. 909,499; Jan. 12; Sp. p. 2154; Gaz. vol. 138; p. 382.  
 Road construction and making same. F. S. Hutchinson. No. 918,156; Apr. 13; Sp. p. 2427; Gaz. vol. 141; p. 435.  
 Road construction and repair. S. G. Howe. No. 940,971; Nov. 23; Sp. p. 5578; Gaz. vol. 148; p. 944.  
 Road-crossing. L. Frederick. No. 921,223; May 11; Sp. p. 2308; Gaz. vol. 142; p. 405.  
 Road-culvert. L. Blakestad and O. A. Anderson. No. 911,368; Feb. 2; Sp. p. 675; Gaz. vol. 139; p. 116.  
 Road-drag. W. A. Traver. No. 909,966; Jan. 19; Sp. p. 3102; Gaz. vol. 138; p. 573.  
 Road-drag. E. J. Mills. No. 916,179; Mar. 23; Sp. p. 5141; Gaz. vol. 140; p. 909.  
 Road-engine. H. N. Covell and J. H. Dickinson. No. 933,825; Sept. 14; Sp. p. 1756; Gaz. vol. 146; p. 291.  
 Road-float. F. L. Gaines. No. 918,993; Apr. 20; Sp. p. 4240; Gaz. vol. 141; p. 740.  
 Road-grader. L. Ireland. No. 910,384; Jan. 19; Sp. p. 3989; Gaz. vol. 138; p. 716.  
 Road-grader. S. A. Ulrich. No. 917,977; Apr. 13; Sp. p. 2059; Gaz. vol. 141; p. 372.  
 Road grader and scraper. B. A. Fleshman. No. 917,279; Apr. 6; Sp. p. 661; Gaz. vol. 141; p. 112.  
 Road grader or scraper. S. Richardson. No. 916,199; Mar. 23; Sp. p. 5172; Gaz. vol. 140; p. 916.  
 Road-locking block. H. H. Dickson. No. 930,161; Aug. 3; Sp. p. 1138; Gaz. vol. 145; p. 185.  
 Road-machine. M. M. Sickler. No. 915,492; Mar. 16; Sp. p. 3773; Gaz. vol. 140; p. 656.  
 Road-machine. M. M. Sickler. No. 927,887; July 13; Sp. p. 2473; Gaz. vol. 144; p. 422.  
 Road-machine. F. N. Root. No. 934,630; Sept. 21; Sp. p. 3344; Gaz. vol. 146; p. 582.  
 Road-machine. M. and M. Lämpel. No. 938,249; Oct. 26; Sp. p. 5548; Gaz. vol. 147; p. 948.  
 Road-machine. Snow. J. Warcup. No. 913,788; Mar. 2; Sp. p. 238; Gaz. vol. 140; p. 40.  
 Road-making, building, &c., Manufacture of blocks, plates, &c., for use in. H. M. Clifford. No. 917,004; Apr. 6; Sp. p. 79; Gaz. vol. 141; p. 18.  
 Road-making machine. E. L. Lathrop. No. 940,169; Nov. 16; Sp. p. 3821; Gaz. vol. 148; p. 649.  
 Road-repairing machine. W. G. Herring. No. 927,239; July 6; Sp. p. 1114; Gaz. vol. 144; p. 181.  
 Road-roller. J. V. Miller. No. 925,714; June 22; Sp. p. 5489; Gaz. vol. 143; p. 957.  
 Road-scraper, Riding-wheel. S. Robinson and J. A. Saffer. No. 909,228; Jan. 12; Sp. p. 1636; Gaz. vol. 138; p. 294.  
 Road-surface preparation or composition. W. A. and S. C. Meadows. No. 924,086; June 8; Sp. p. 2132; Gaz. vol. 143; p. 355.  
 Road-surfaces, Forming. T. Aitken. No. 918,490; Apr. 20; Sp. p. 3119; Gaz. vol. 141; p. 573.  
 Road-working machine. A. C. Callender. No. 914,241; Mar. 2; Sp. p. 1247; Gaz. vol. 140; p. 195.  
 Road-working machine. M. A. Popkess. No. 942,866; Dec. 7; Sp. p. 1736; Gaz. vol. 149; p. 282.  
 Roads, Combined mixer and sprinkler for making. B. N. Beard. No. 909,134; Jan. 12; Sp. p. 1461; Gaz. vol. 138; p. 265.  
 Roadway, Composition. B. F. Richardson. No. 911,445; Feb. 2; Sp. p. 803; Gaz. vol. 139; p. 140.  
 Roadways, footways, and the like, Construction of. G. A., A. J., and E. E. Mitchell. No. 923,195; June 1; Sp. p. 156; Gaz. vol. 143; p. 26.  
 Roadways, Manufacture of bituminous. C. Richardson. No. 923,891; June 8; Sp. p. 1768; Gaz. vol. 143; p. 295.  
 Roaster: See Coffee-roaster; Peanut-roaster.  
 Roaster for coffee and other material. R. Burns. No. 932,957; Aug. 31; Sp. p. 7008; Gaz. vol. 145; p. 1205.  
 Roasting and like furnace. U. Wedge. No. 939,880; Nov. 9; Sp. p. 3138; Gaz. vol. 148; p. 518.  
 Roasting apparatus, Grain and seed. G. W. Barth. No. 937,914; Oct. 26; Sp. p. 4826; Gaz. vol. 147; p. 834.  
 Roasting chestnuts and the like, Device for. T. E. Attwell. No. 923,756; June 1; Sp. p. 1415; Gaz. vol. 143; p. 220.  
 Roasting-furnace. J. E. Greenawalt. No. 919,000; Apr. 20; Sp. p. 4249; Gaz. vol. 141; p. 742.  
 Roasting-furnace. W. L. Loveland. No. 919,197; Apr. 20; Sp. p. 4613; Gaz. vol. 141; p. 805.  
 Roasting-furnace. F. E. Marcy. No. 920,971; May 11; Sp. p. 1791; Gaz. vol. 142; p. 317.  
 Roasting-furnace. H. A. Hogel. No. 926,942; July 6; Sp. p. 488; Gaz. vol. 144; p. 79.  
 Roasting-furnace. U. Wedge. No. 939,881; Nov. 9; Sp. p. 3141; Gaz. vol. 148; p. 518.  
 Roasting-furnace. A. R. Wilfey. No. 939,936; Nov. 9; Sp. p. 3270; Gaz. vol. 148; p. 540.  
 Roasting-furnace, Mechanical. R. von Zelewski. No. 915,531; Mar. 16; Sp. p. 3846; Gaz. vol. 140; p. 668.  
 Roasting-pan. P. Scott. (Reissue.) No. 13,054; Dec. 7; Sp. p. 1792; Gaz. vol. 149; p. 291.  
 Roasting separation process. H. A. Wentworth. No. 938,732; Nov. 2; Sp. p. 609; Gaz. vol. 148; p. 96.  
 Robe holder, Lap-. C. B. Phillips. No. 924,188; June 8; Sp. p. 2383; Gaz. vol. 143; p. 391.  
 Rock-breaker. C. C. Lane. No. 936,729; Oct. 12; Sp. p. 2374; Gaz. vol. 147; p. 395.  
 Rock-breaker, Subaqueous. C. L. Rowland. (Reissue.) No. 12,933; Mar. 30; Sp. p. 6681; Gaz. vol. 140; p. 1191.  
 Rock-breaker, Subaqueous. B. H. Coffey. No. 918,968; Apr. 20; Sp. p. 4194; Gaz. vol. 141; p. 732.  
 Rock-breaker, Subaqueous. B. H. Coffey. No. 919,422; Apr. 27; Sp. p. 5283; Gaz. vol. 141; p. 915.  
 Rock-breaker, Subaqueous. B. H. Coffey. No. 929,832; Aug. 3; Sp. p. 430; Gaz. vol. 145; p. 71.  
 Rock-chisel machine for channel-excavation. W. D. Cuthbert. No. 920,031; Apr. 27; Sp. p. 6560; Gaz. vol. 141; p. 1118.  
 Rock-crusher. E. S. Phillips. No. 943,455; Dec. 14; Sp. p. 3057; Gaz. vol. 149; p. 513.  
 Rock-cutting apparatus. F. W. Allan. No. 928,574; July 20; Sp. p. 3902; Gaz. vol. 144; p. 681.  
 Rock-drill. L. H. Jenkins. No. 913,389; Feb. 23; Sp. p. 4875; Gaz. vol. 139; p. 873.  
 Rock-drill. B. Hastings. No. 916,703; Mar. 30; Sp. p. 6180; Gaz. vol. 140; p. 1107.  
 Rock-drill. C. Jackson. No. 917,074; Apr. 6; Sp. p. 223; Gaz. vol. 141; p. 41.  
 Rock-drill. C. Jackson. No. 917,731; Apr. 6; Sp. p. 1497; Gaz. vol. 141; p. 262.  
 Rock-drill. H. J. Hibbschle. No. 924,350; June 8; Sp. p. 2736; Gaz. vol. 143; p. 446.  
 Rock-drill. S. Ferguson. No. 925,765; June 22; Sp. p. 5615; Gaz. vol. 143; p. 975.  
 Rock-drill. S. W. Brothers. No. 927,940; July 13; Sp. p. 2586; Gaz. vol. 144; p. 440.  
 Rock-drill. W. E. Porter. No. 931,479; Aug. 17; Sp. p. 3913; Gaz. vol. 145; p. 675.  
 Rock-drill. R. A. Powden. No. 933,702; Sept. 7; Sp. p. 1408; Gaz. vol. 146; p. 227.  
 Rock-drill. W. L. Smith. No. 934,102; Sept. 14; Sp. p. 2313; Gaz. vol. 146; p. 379.  
 Rock-drill. H. W. Burgess and J. Hepworth. No. 937,048; Oct. 19; Sp. p. 3011; Gaz. vol. 147; p. 528.  
 Rock-drill. H. J. Hibbschle. No. 941,251; Nov. 23; Sp. p. 6187; Gaz. vol. 148; p. 1038.  
 Rock-drill. W. C. Stephens. No. 944,750; Dec. 28; Sp. p. 5878; Gaz. vol. 149; p. 1013.  
 Rock-drill, Internal-combustion. L. L. Scott. No. 915,893; Mar. 23; Sp. p. 4604; Gaz. vol. 140; p. 817.  
 Rock-drill, Internal-combustion. L. L. Scott. No. 931,964; Aug. 24; Sp. p. 4980; Gaz. vol. 145; p. 853.  
 Rock-drill, Internal-combustion. L. L. Scott. No. 941,731; Nov. 30; Sp. p. 7223; Gaz. vol. 148; p. 1219.  
 Rock-drill, Internal-combustion. L. L. Scott. No. 941,732; Nov. 30; Sp. p. 7226; Gaz. vol. 148; p. 1219.  
 Rock-drill making and sharpening machine. G. W. Smith. No. 927,181; July 6; Sp. p. 997; Gaz. vol. 144; p. 162.  
 Rock-drill or boring-tool. J. Hutchings. No. 931,611; Aug. 17; Sp. p. 4161; Gaz. vol. 145; p. 714.  
 Rock-drill, Percussive. W. C. Stephens. No. 930,430; Aug. 10; Sp. p. 1627; Gaz. vol. 145; p. 294.  
 Rock-drill, Rotary. C. C. Cox and R. B. Butler. No. 924,743; June 15; Sp. p. 3550; Gaz. vol. 143; p. 609.  
 Rock-drill support, Adjustable. S. W. Brothers. No. 929,826; Aug. 3; Sp. p. 419; Gaz. vol. 145; p. 69.  
 Rock-drills, Self-lubricating air-cock for. C. Senn. No. 933,675; Sept. 7; Sp. p. 1449; Gaz. vol. 146; p. 218.  
 Rock-drilling engine. J. G. Leyner. No. 914,737; Mar. 9; Sp. p. 2287; Gaz. vol. 140; p. 383.  
 Rock-drilling engine, Gasolene-operating. R. S. Trott. No. 915,320; Mar. 16; Sp. p. 3435; Gaz. vol. 140; p. 599.  
 Rock-drilling engine, Water-feed, dust-laying. C. H. Shaw. No. 922,526; May 25; Sp. p. 4993; Gaz. vol. 142; p. 888.  
 Rock-drilling machine. J. E. H. Grosse. No. 937,237; Oct. 19; Sp. p. 3413; Gaz. vol. 147; p. 591.  
 Rock-drilling machine or engine. L. L. Scott. No. 937,872; Oct. 26; Sp. p. 4742; Gaz. vol. 147; p. 819.  
 Rock-drilling machines, Distributing-valve for percussive. A. J. Bant and H. Gullett. No. 910,447; Jan. 19; Sp. p. 4121; Gaz. vol. 138; p. 738.  
 Rock elimination, Apparatus for waste. H. L. Kramer. No. 942,083; Dec. 7; Sp. p. 96; Gaz. vol. 149; p. 17.  
 Rock for refractory material, Reducing. W. Walker and H. W. Croft. No. 909,835; Jan. 12; Sp. p. 2813; Gaz. vol. 138; p. 496.  
 Rock-like substance. A. D. Ney. No. 939,072; Nov. 2; Sp. p. 1326; Gaz. vol. 148; p. 215.  
 Rocker and Morris chair, Combined standing. A. L. Haley. No. 927,234; July 6; Sp. p. 1105; Gaz. vol. 144; p. 179.  
 Rocker, Omnibus-. E. L. Parmenter. No. 915,793; Mar. 23; Sp. p. 4421; Gaz. vol. 140; p. 784.  
 Rocker, Removable and adjustable. C. A. Druhan. No. 921,813; May 18; Sp. p. 3541; Gaz. vol. 142; p. 628.  
 Rocker-ring roller-bearing. R. Siegfried. No. 911,964; Jan. 26; Sp. p. 5158; Gaz. vol. 138; p. 930.  
 Rocking chair. P. Alp. No. 932,235; Aug. 24; Sp. p. 5539; Gaz. vol. 145; p. 943.  
 Rocking chair. S. Haydu. No. 932,389; Aug. 24; Sp. p. 5814; Gaz. vol. 145; p. 994.  
 Rocking chair, Folding. J. L. Peters. No. 933,336; Sept. 7; Sp. p. 687; Gaz. vol. 146; p. 106.  
 Rocking chair, Reclining. M. Brufat. No. 940,233; Nov. 16; Sp. p. 3951; Gaz. vol. 148; p. 672.  
 Rocking device. G. W. Gooding. No. 923,509; June 1; Sp. p. 884; Gaz. vol. 143; p. 134.



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- Rocking-horse, Traveling. C. L. Corcoran. No. 936,092; Oct. 5; Sp. p. 1039; Gaz. vol. 147; p. 157.  
 Rocking-horse, Traveling. S. Spain. No. 937,109; Oct. 19; Sp. p. 3123; Gaz. vol. 147; p. 649.  
 Rod. *See* Awning guide-rod; Conduit-rod; Connecting-rod; Curtain-rod; Extension-rod; Fishing-rod; Lightning-rod; Stadia-rod; Switch-rod; Telemeter-rod.  
 Rod-adjusting device. L. Willis. No. 912,221; Feb. 9; Sp. p. 2419; Gaz. vol. 139; p. 418.  
 Rod-bending tool. J. C. Newlin. No. 919,206; Apr. 20; Sp. p. 4628; Gaz. vol. 141; p. 807.  
 Rod connection. C. G. Sprado. No. 923,724; June 1; Sp. p. 1339; Gaz. vol. 143; p. 208.  
 Rod connection, Tie. P. Monson. No. 914,496; Mar. 9; Sp. p. 1768; Gaz. vol. 140; p. 303.  
 Rod-coupling. B. F. Cole. No. 922,263; May 18; Sp. p. 4468; Gaz. vol. 142; p. 775.  
 Rod-coupling. H. H. Pofahl. No. 925,503; June 22; Sp. p. 5045; Gaz. vol. 143; p. 889.  
 Rod coupling, Sectional-. R. H. Villard. No. 921,487; May 11; Sp. p. 2860; Gaz. vol. 142; p. 492.  
 Rod gripper, Polished-. E. M. Hibbard. No. 930,179; Aug. 3; Sp. p. 1173; Gaz. vol. 145; p. 191.  
 Rod safety appliance, Connecting-. E. D. Church. No. 917,924; Apr. 13; Sp. p. 1949; Gaz. vol. 141; p. 353.  
 Rod, stem, and shaft compound stuffing-box. O. O. Thwing. No. 909,479; Jan. 12; Sp. p. 2115; Gaz. vol. 138; p. 375.  
 Rodent exterminator. D. L. Levey. No. 925,584; June 22; Sp. p. 5206; Gaz. vol. 143; p. 916.  
 Rodents, Composition for eradicating. C. Ellis. No. 944,419; Dec. 28; Sp. p. 5123; Gaz. vol. 149; p. 900.  
 Roll, Drawing-off. J. R. Milson. No. 911,317; Feb. 2; Sp. p. 582; Gaz. vol. 139; p. 99.  
 Roll, Expandible. F. N. Ethridge. No. 934,964; Sept. 21; Sp. p. 3995; Gaz. vol. 146; p. 694.  
 Roll-holder. E. O. Bulman. No. 909,750; Jan. 12; Sp. p. 2660; Gaz. vol. 138; p. 469.  
 Roll-holder. E. O. Bulman. No. 913,099; Feb. 23; Sp. p. 4277; Gaz. vol. 139; p. 775.  
 Roll, Hollow. M. J. Whitlock. No. 921,771; May 18; Sp. p. 3460; Gaz. vol. 142; p. 615.  
 Roll ejecting device, Cutting-. E. G. Staude. No. 909,957; Jan. 19; Sp. p. 3088; Gaz. vol. 138; p. 570.  
 Roll-polisher. T. Lombardi. No. 921,549; May 11; Sp. p. 2981; Gaz. vol. 142; p. 512.  
 Roll-shaping apparatus. W. U. Dennison. No. 939,590; Nov. 9; Sp. p. 2543; Gaz. vol. 148; p. 417.  
 Roller. *See* Baggage-roller; Barrel-scrubber roller; Car-door stay-roller; Corn-husking roller; Curtain-roller; Detachable roller; Field-roller; Harvester snapping-roller; Husking-roller; Land-roller; Line-roller; Mangling-roller; Mill-roller; Printing-press inking-roller; Pulverizing-roller; Road-roller; Shade-roller; Traction and lawn-rolling roller.  
 Roller. B. D. Turner. No. 924,402; June 8; Sp. p. 2835; Gaz. vol. 143; p. 462.  
 Roller. A. Stouffer. No. 924,506; June 8; Sp. p. 3031; Gaz. vol. 143; p. 496.  
 Roller. H. R. Derby. No. 925,308; June 15; Sp. p. 4671; Gaz. vol. 143; p. 797.  
 Roller. A. E. Blight. No. 939,206; Nov. 9; Sp. p. 1628; Gaz. vol. 148; p. 288.  
 Roller-bearing, Self-righting. O. F. Zahn. No. 915,529; Mar. 16; Sp. p. 3837; Gaz. vol. 140; p. 668.  
 Roller, harrow, and cultivator, Combined. O. A. Gallatin. No. 922,469; May 25; Sp. p. 4886; Gaz. vol. 142; p. 870.  
 Roller-mill. J. H. Elspass. No. 916,129; Mar. 23; Sp. p. 5045; Gaz. vol. 140; p. 894.  
 Roller, Road-. M. J. Todd and D. Farquhar. No. 939,877; Nov. 9; Sp. p. 3133; Gaz. vol. 148; p. 517.  
 Rolling apparatus, Car-wheel-. C. Mercader. No. 937,539; Oct. 19; Sp. p. 4072; Gaz. vol. 147; p. 692.  
 Rolling flanged bars. H. Sack. No. 939,168; Nov. 2; Sp. p. 1539; Gaz. vol. 148; p. 249.  
 Rolling flanged bars, Universal rolls for. H. Sack. No. 939,170; Nov. 2; Sp. p. 1544; Gaz. vol. 148; p. 250.  
 Rolling-hoop. E. F. Draper. No. 932,451; Aug. 31; Sp. p. 5953; Gaz. vol. 145; p. 1038.  
 Rolling machine, Metal-form-. W. D. Eynon. No. 924,329; June 8; Sp. p. 2696; Gaz. vol. 143; p. 439.  
 Rolling manganese steel. W. S. Potter. No. 938,893; Nov. 2; Sp. p. 961; Gaz. vol. 148; p. 152.  
 Rolling metal sheets. A. H. Beale. No. 926,233; June 29; Sp. p. 6613; Gaz. vol. 143; p. 1167.  
 Rolling-mill. O. Heer. No. 910,813; Jan. 26; Sp. p. 4886; Gaz. vol. 138; p. 882.  
 Rolling-mill. F. C. Biggert, Jr. No. 915,014; Mar. 9; Sp. p. 2785; Gaz. vol. 140; p. 471.  
 Rolling-mill. H. Stütting. No. 916,052; Mar. 23; Sp. p. 4905; Gaz. vol. 140; p. 869.  
 Rolling-mill. J. R. George. No. 926,863; July 6; Sp. p. 335; Gaz. vol. 144; p. 54.  
 Rolling-mill. H. Keitel. No. 928,768; July 20; Sp. p. 4281; Gaz. vol. 144; p. 746.  
 Rolling-mill. L. R. Custer. No. 929,400; July 27; Sp. p. 5617; Gaz. vol. 144; p. 985.  
 Rolling-mill. J. Fawell. No. 933,701; Sept. 7; Sp. p. 1407; Gaz. vol. 146; p. 227.  
 Rolling-mill. J. E. York. No. 933,812; Sept. 14; Sp. p. 1728; Gaz. vol. 146; p. 287.  
 Rolling-mill. H. Sack. No. 939,169; Nov. 2; Sp. p. 1541; Gaz. vol. 148; p. 249.  
 Rolling-mill. H. Grey. No. 943,633; Dec. 14; Sp. p. 3458; Gaz. vol. 149; p. 576.  
 Rolling-mill feed mechanism. G. Lambert and H. A. Cardozo. No. 923,189; June 1; Sp. p. 144; Gaz. vol. 143; p. 24.  
 Rolling mill, Rod-. H. L. Thompson. No. 923,216; June 1; Sp. p. 198; Gaz. vol. 143; p. 33.  
 Rolling-mill transfer-table. C. L. Huston. No. 942,644; Dec. 7; Sp. p. 1276; Gaz. vol. 149; p. 209.  
 Rolling-mill tube-trough. J. S. Worth and W. F. Harrison. No. 931,543; Aug. 17; Sp. p. 4026; Gaz. vol. 145; p. 694.  
 Rolling-mill, Universal. H. Sack. No. 939,167; Nov. 2; Sp. p. 1537; Gaz. vol. 148; p. 249.  
 Rolling-mill, Universal. H. Sack. No. 939,172; Nov. 2; Sp. p. 1546; Gaz. vol. 148; p. 250.  
 Rolling-mill, Universal. H. Sack. No. 939,173; Nov. 2; Sp. p. 1549; Gaz. vol. 148; p. 251.  
 Rolling-pin. H. E. Fendring. No. 931,691; Aug. 17; Sp. p. 4362; Gaz. vol. 145; p. 740.  
 Rolling-pin. J. Pozsonyi. No. 932,322; Aug. 24; Sp. p. 5702; Gaz. vol. 145; p. 972.  
 Rolling ribbed bars. T. W. Jenks. No. 941,880; Nov. 30; Sp. p. 7552; Gaz. vol. 148; p. 1271.  
 Rolling screen. C. Bauer. No. 930,923; Aug. 10; Sp. p. 2681; Gaz. vol. 145; p. 459.  
 Rolling sheet-metal cylinders, Means for. M. M. Parker. No. 932,168; Aug. 24; Sp. p. 5403; Gaz. vol. 145; p. 922.  
 Rolling sheets. A. Paterson. (Reissue.) No. 12,975; June 15; Sp. p. 4927; Gaz. vol. 143; p. 842.  
 Rolling structural material, Regulating initial strains in. A. H. Emery. No. 939,676; Nov. 9; Sp. p. 2719; Gaz. vol. 148; p. 449.  
 Rolling tie-plate bars. W. J. Williams. No. 921,043; May 11; Sp. p. 1924; Gaz. vol. 142; p. 341.  
 Rolling tin plates, Apparatus for. C. W. Bray. No. 935,356; Sept. 28; Sp. p. 4800; Gaz. vol. 146; p. 848.  
 Roof. T. Kress. No. 924,244; June 8; Sp. p. 2520; Gaz. vol. 143; p. 410.  
 Roof-bracket. W. T. Gallagher and J. W. Bileley. No. 944,185; Dec. 21; Sp. p. 4615; Gaz. vol. 149; p. 792.  
 Roof-carline. A. G. Elvin. No. 934,801; Sept. 21; Sp. p. 3677; Gaz. vol. 146; p. 638.  
 Roof-covering, Metal. F. A. Clark. No. 924,144; June 8; Sp. p. 2271; Gaz. vol. 143; p. 375.  
 Roof-edging. M. Moyer. No. 910,080; Jan. 19; Sp. p. 3319; Gaz. vol. 138; p. 611.  
 Roof-flange, Adjustable. H. C. Folger. No. 936,991; Oct. 12; Sp. p. 2873; Gaz. vol. 147; p. 480.  
 Roof-flashing. F. E. Shaw. No. 917,167; Apr. 6; Sp. p. 420; Gaz. vol. 141; p. 73.  
 Roof-flashing. H. K. Ulrich and B. T. Cubine. No. 921,752; May 18; Sp. p. 3411; Gaz. vol. 142; p. 607.  
 Roof for train-sheds and other buildings. H. J. Schlacks. No. 929,115; July 27; Sp. p. 4996; Gaz. vol. 144; p. 889.  
 Roof, Glass. F. Wessels, Jr. No. 937,667; Oct. 19; Sp. p. 4300; Gaz. vol. 147; p. 733.  
 Roof-guard. S. W. Popel. No. 935,055; Sept. 28; Sp. p. 4187; Gaz. vol. 146; p. 750.  
 Roof-plate and attic foul-air vent. J. L. Fruin. No. 927,034; July 6; Sp. p. 698; Gaz. vol. 144; p. 112.  
 Roof, Temporary. J. C. Gabler. No. 928,039; July 13; Sp. p. 2777; Gaz. vol. 144; p. 473.  
 Roof-truss. D. W. Morrison. No. 915,461; Mar. 16; Sp. p. 3720; Gaz. vol. 140; p. 645.  
 Roof-ventilator. W. W. Birnstock. No. 942,707; Dec. 7; Sp. p. 1394; Gaz. vol. 149; p. 229.  
 Roofing and for like uses, Means for retaining and supporting metallic plates for. H. C. Ferron. No. 935,479; Sept. 28; Sp. p. 5018; Gaz. vol. 146; p. 887.  
 Roofing and producing it, Composition. W. A. Biles. No. 930,524; Aug. 10; Sp. p. 1862; Gaz. vol. 145; p. 328.  
 Roofing fabric, Ready-. J. Ayrault. No. 925,263; June 15; Sp. p. 4585; Gaz. vol. 143; p. 784.  
 Roofing fabrics, Mandrel for reeling ready-. B. G. Casler. No. 925,425; June 15; Sp. p. 4874; Gaz. vol. 143; p. 834.  
 Roofing joint, Metal-. L. B. Hunter. No. 938,869; Nov. 2; Sp. p. 915; Gaz. vol. 148; p. 144.  
 Roofing material. A. J. Cohen. No. 917,543; Apr. 6; Sp. p. 1146; Gaz. vol. 141; p. 200.  
 Roofing-nail. J. Conway. No. 928,630; July 20; Sp. p. 4016; Gaz. vol. 144; p. 700.  
 Roofing or siding sheets or the like, Lap-joint for. E. G. Welch. No. 917,213; Apr. 6; Sp. p. 517; Gaz. vol. 141; p. 90.  
 Roofing-package. F. C. Overbury. No. 942,660; Dec. 7; Sp. p. 1308; Gaz. vol. 149; p. 214.  
 Roofing-stretching device. W. Frank. No. 932,382; Aug. 24; Sp. p. 5803; Gaz. vol. 145; p. 992.  
 Roofing-strip. C. Lagergren. No. 936,139; Oct. 5; Sp. p. 1137; Gaz. vol. 147; p. 173.  
 Room heater and ventilator, Individual. F. H. Schuppener. No. 908,614; Jan. 5; Sp. p. 387; Gaz. vol. 138; p. 62.  
 Roost. T. Thompson. No. 911,920; Feb. 9; Sp. p. 1744; Gaz. vol. 139; p. 323.  
 Roost, Chicken-. H. R. Kaneaster. No. 934,075; Sept. 14; Sp. p. 2250; Gaz. vol. 146; p. 370.  
 Roost, Chicken-. J. L. Herman. No. 938,234; Oct. 26; Sp. p. 5519; Gaz. vol. 147; p. 943.  
 Roost, Movable poultry-. C. Stoner. No. 922,061; May 18; Sp. p. 4051; Gaz. vol. 142; p. 708.  
 Roost, Poultry-. A. J. Baldwin. No. 932,669; Aug. 31; Sp. p. 6446; Gaz. vol. 145; p. 1112.  
 Root-cutting attachment for plowing-machines. J. G. Rountree. No. 915,483; Mar. 16; Sp. p. 3756; Gaz. vol. 140; p. 653.

*Alphabetical list of inventions—Continued.*

- Root-cutting machine. J. G. Rountree. No. 915,484; Mar. 16; Sp. p. 3758; Gaz. vol. 140; p. 654.  
 Root-digging machine. T. H. Maley. No. 911,417; Feb. 2; Sp. p. 763; Gaz. vol. 139; p. 133.  
 Root-extractors, Riddle for. B. G. Patterson. No. 934,345; Sept. 14; Sp. p. 2777; Gaz. vol. 146; p. 462.  
 Rope carrier, Fall-. W. A. Wood and C. W. Kahlerth. No. 944,118; Dec. 21; Sp. p. 4489; Gaz. vol. 149; p. 771.  
 Rope-clamp. N. S. Wheeler. No. 909,352; Jan. 12; Sp. p. 1867; Gaz. vol. 138; p. 335.  
 Rope-clamp. F. J. Hampel. No. 921,241; May 11; Sp. p. 2345; Gaz. vol. 142; p. 411.  
 Rope-clamp. O. Crosby. No. 944,718; Dec. 28; Sp. p. 5796; Gaz. vol. 149; p. 1002.  
 Rope-computing machine. C. A. Benbow. No. 936,078; Oct. 5; Sp. p. 1014; Gaz. vol. 147; p. 153.  
 Rope-coupling. W. Shufflebottom and T. Kenworthy. No. 943,168; Dec. 14; Sp. p. 2449; Gaz. vol. 149; p. 416.  
 Rope-drive elevator. D. L. Lindquist. No. 931,935; Aug. 24; Sp. p. 4911; Gaz. vol. 145; p. 843.  
 Rope-knife. H. A. Beasley. No. 923,482; June 1; Sp. p. 824; Gaz. vol. 143; p. 124.  
 Rope-making machine. H. Personett. No. 939,308; Nov. 9; Sp. p. 1903; Gaz. vol. 148; p. 324.  
 Rope portières, Laying-table for. W. T. Smith. No. 939,873; Nov. 9; Sp. p. 3127; Gaz. vol. 148; p. 516.  
 Rope-reel. G. W. Cavell. No. 908,743; Jan. 5; Sp. p. 669; Gaz. vol. 138; p. 104.  
 Rope-socket clamp. J. N. Johnston. No. 932,556; Aug. 31; Sp. p. 6189; Gaz. vol. 145; p. 1073.  
 Rope-slide. C. Harrell. No. 935,151; Sept. 28; Sp. p. 4282; Gaz. vol. 146; p. 782.  
 Rosette. J. S. Stewart. No. 910,241; Jan. 19; Sp. p. 3668; Gaz. vol. 138; p. 667.  
 Rosette. E. Tregoning. No. 922,977; May 25; Sp. p. 5937; Gaz. vol. 142; p. 1035.  
 Rosette. F. C. De Reamer. No. 937,427; Oct. 19; Sp. p. 3830; Gaz. vol. 147; p. 652.  
 Rosin-applicator. J. Ibbotson. No. 936,133; Oct. 5; Sp. p. 1127; Gaz. vol. 147; p. 171.  
 Rosin, Bleaching. L. C. Minor. No. 939,733; Nov. 9; Sp. p. 2840; Gaz. vol. 148; p. 468.  
 Rosin, Purification of. H. T. Yaryan. No. 934,257; Sept. 14; Sp. p. 2618; Gaz. vol. 146; p. 433.  
 Rosin, Purifying. H. T. Yaryan. No. 915,401; Mar. 16; Sp. p. 3600; Gaz. vol. 140; p. 627.  
 Rosin, Treatment of. H. T. Yaryan. No. 915,402; Mar. 16; Sp. p. 3601; Gaz. vol. 140; p. 627.  
 Rossin-vat. J. H. Tomberlin. No. 934,374; Sept. 14; Sp. p. 2831; Gaz. vol. 146; p. 473.  
 Rossing-machine. J. M. Baldwin. No. 916,651; Mar. 30; Sp. p. 6084; Gaz. vol. 140; p. 1090.  
 Rotating-machine. J. Moreau. No. 924,918; June 15; Sp. p. 3913; Gaz. vol. 143; p. 668.  
 Rotary carrier. F. A. Johnson. No. 939,700; Nov. 9; Sp. p. 2765; Gaz. vol. 148; p. 456.  
 Rotary combustion-engine. F. Fleming. No. 941,507; Nov. 30; Sp. p. 6868; Gaz. vol. 148; p. 1163.  
 Rotary cutter. A. Victor. No. 937,558; Oct. 19; Sp. p. 4107; Gaz. vol. 147; p. 698.  
 Rotary drill, Portable. J. G. St. Germain. No. 936,832; July 6; Sp. p. 267; Gaz. vol. 144; p. 43.  
 Rotary engine. A. J. Charlton. No. 908,955; Jan. 5; Sp. p. 1064; Gaz. vol. 138; p. 172.  
 Rotary engine. F. M. Whitman. No. 909,493; Jan. 12; Sp. p. 2144; Gaz. vol. 138; p. 380.  
 Rotary engine. H. C. Schaefer. No. 909,685; Jan. 12; Sp. p. 2517; Gaz. vol. 138; p. 447.  
 Rotary engine. J. Matthews and G. Veitch. No. 910,007; Jan. 19; Sp. p. 3174; Gaz. vol. 138; p. 587.  
 Rotary engine. F. W. Remer. No. 910,085; Jan. 19; Sp. p. 3326; Gaz. vol. 138; p. 612.  
 Rotary engine. F. A. Cleveland. No. 910,272; Jan. 19; Sp. p. 3767; Gaz. vol. 138; p. 678.  
 Rotary engine. C. Hetherington. No. 911,127; Feb. 2; Sp. p. 198; Gaz. vol. 139; p. 38.  
 Rotary engine. W. D. Tutt. No. 911,852; Feb. 9; Sp. p. 1615; Gaz. vol. 139; p. 300.  
 Rotary engine. H. P. McCann. No. 912,253; Feb. 9; Sp. p. 2487; Gaz. vol. 139; p. 429.  
 Rotary engine. L. L. Lewis. No. 912,315; Feb. 16; Sp. p. 2658; Gaz. vol. 139; p. 488.  
 Rotary engine. C. Ford and D. F. Helmer. No. 912,948; Feb. 16; Sp. p. 3969; Gaz. vol. 139; p. 698.  
 Rotary engine. S. W. Balch. No. 913,255; Feb. 23; Sp. p. 4609; Gaz. vol. 139; p. 827.  
 Rotary engine. G. L. Webster. No. 913,443; Feb. 23; Sp. p. 4979; Gaz. vol. 139; p. 891.  
 Rotary engine. F. Tompkins. No. 913,927; Mar. 2; Sp. p. 554; Gaz. vol. 140; p. 89.  
 Rotary engine. W. H. Reece. No. 914,074; Mar. 2; Sp. p. 897; Gaz. vol. 140; p. 140.  
 Rotary engine. J. S. Alcorn. No. 914,627; Mar. 9; Sp. p. 2039; Gaz. vol. 140; p. 347.  
 Rotary engine. J. Funkhouser. No. 915,091; Mar. 16; Sp. p. 2962; Gaz. vol. 140; p. 525.  
 Rotary engine. A. T. Snodgrass. No. 915,236; Mar. 16; Sp. p. 3273; Gaz. vol. 140; p. 572.  
 Rotary engine. C. C. Holloway. No. 915,296; Mar. 16; Sp. p. 3389; Gaz. vol. 140; p. 592.  
 Rotary engine. A. V. Budd. No. 915,549; Mar. 16; Sp. p. 3902; Gaz. vol. 140; p. 675.  
 Rotary engine. J. J. Tanner. No. 915,635; Mar. 16; Sp. p. 4085; Gaz. vol. 140; p. 706.  
 Rotary engine. E. S. and F. F. Cameron. No. 915,828; Mar. 23; Sp. p. 4486; Gaz. vol. 140; p. 795.  
 Rotary engine. F. Tompkins. No. 916,225; Mar. 23; Sp. p. 5230; Gaz. vol. 140; p. 924.  
 Rotary engine. A. N. Blazer. No. 916,258; Mar. 23; Sp. p. 5283; Gaz. vol. 140; p. 935.  
 Rotary engine. M. White. No. 917,390; Apr. 6; Sp. p. 872; Gaz. vol. 141; p. 150.  
 Rotary engine. L. Holt. No. 917,436; Apr. 6; Sp. p. 950; Gaz. vol. 141; p. 165.  
 Rotary engine. W. D. Quigley and P. Meyer. No. 917,792; Apr. 13; Sp. p. 1667; Gaz. vol. 141; p. 309.  
 Rotary engine. B. F. Hoffman. No. 917,944; Apr. 13; Sp. p. 1983; Gaz. vol. 141; p. 361.  
 Rotary engine. E. B. Trescher. No. 919,496; Apr. 27; Sp. p. 5480; Gaz. vol. 141; p. 941.  
 Rotary engine. A. Crull. No. 919,698; Apr. 27; Sp. p. 5878; Gaz. vol. 141; p. 1009.  
 Rotary engine. W. S. Minor. No. 920,976; May 11; Sp. p. 1797; Gaz. vol. 142; p. 319.  
 Rotary engine. O. Staff. No. 921,478; May 11; Sp. p. 2848; Gaz. vol. 142; p. 490.  
 Rotary engine. A. J. Ruth. No. 922,047; May 18; Sp. p. 4029; Gaz. vol. 142; p. 704.  
 Rotary engine. C. Miller. No. 924,173; June 8; Sp. p. 2354; Gaz. vol. 143; p. 385.  
 Rotary engine. T. Jorgensen. No. 924,556; June 8; Sp. p. 3136; Gaz. vol. 143; p. 512.  
 Rotary engine. R. W. Riordan. No. 924,832; June 15; Sp. p. 3735; Gaz. vol. 143; p. 639.  
 Rotary engine. V. M. Fulcher. No. 924,899; June 15; Sp. p. 3878; Gaz. vol. 143; p. 661.  
 Rotary engine. A. McDonald. No. 925,127; June 15; Sp. p. 4332; Gaz. vol. 143; p. 739.  
 Rotary engine. F. D. Kelly. No. 926,748; July 6; Sp. p. 89; Gaz. vol. 144; p. 14.  
 Rotary engine. W. S. Ferguson. No. 927,227; July 6; Sp. p. 1066; Gaz. vol. 144; p. 176.  
 Rotary engine. J. F. Bearinger, W. M. Donahay, and C. E. Watson. No. 927,929; July 13; Sp. p. 2568; Gaz. vol. 144; p. 437.  
 Rotary engine. F. Wunderlich and L. Koerber. No. 928,094; July 13; Sp. p. 2872; Gaz. vol. 144; p. 490.  
 Rotary engine. F. P. Nichols. No. 928,147; July 13; Sp. p. 2969; Gaz. vol. 144; p. 508.  
 Rotary engine. L. L. Driggs. No. 928,506; July 20; Sp. p. 3749; Gaz. vol. 144; p. 659.  
 Rotary engine. J. F. Studholme. No. 929,512; July 27; Sp. p. 5808; Gaz. vol. 144; p. 1020.  
 Rotary engine. C. McQuown. No. 931,077; Aug. 17; Sp. p. 3068; Gaz. vol. 145; p. 537.  
 Rotary engine. F. Tompkins. No. 931,900; Aug. 24; Sp. p. 4813; Gaz. vol. 145; p. 830.  
 Rotary engine. F. A. Cleveland. No. 933,363; Sept. 7; Sp. p. 749; Gaz. vol. 146; p. 116.  
 Rotary engine. J. S. Da Costa. No. 934,143; Sept. 14; Sp. p. 2408; Gaz. vol. 146; p. 395.  
 Rotary engine. F. O. Bible. No. 934,384; Sept. 14; Sp. p. 2849; Gaz. vol. 146; p. 476.  
 Rotary engine. C. F. Paine. No. 934,830; Sept. 21; Sp. p. 3729; Gaz. vol. 146; p. 648.  
 Rotary engine. A. A. McLaren. No. 935,046; Sept. 28; Sp. p. 4163; Gaz. vol. 146; p. 746.  
 Rotary engine. W. W. Wheeler. No. 935,079; Sept. 28; Sp. p. 4243; Gaz. vol. 146; p. 756.  
 Rotary engine. W. H. H. Morelock. No. 935,160; Sept. 28; Sp. p. 4394; Gaz. vol. 146; p. 784.  
 Rotary engine. G. Westinghouse. No. 935,343; Sept. 28; Sp. p. 4773; Gaz. vol. 146; p. 844.  
 Rotary engine. D. W. Garbrant and J. L. Burdge. No. 935,489; Sept. 28; Sp. p. 5034; Gaz. vol. 146; p. 890.  
 Rotary engine. J. Clark. No. 935,641; Oct. 5; Sp. p. 27; Gaz. vol. 147; p. 6.  
 Rotary engine. J. R. Kinney. No. 936,543; Oct. 12; Sp. p. 2001; Gaz. vol. 147; p. 329.  
 Rotary engine. A. Neumann. No. 936,933; Oct. 12; Sp. p. 2763; Gaz. vol. 147; p. 462.  
 Rotary engine. F. H. Letwich. No. 937,824; Oct. 26; Sp. p. 4636; Gaz. vol. 147; p. 803.  
 Rotary engine. C. A. Burrows. No. 938,211; Oct. 26; Sp. p. 5471; Gaz. vol. 147; p. 935.  
 Rotary engine. R. F. Schmidt. No. 938,714; Nov. 2; Sp. p. 577; Gaz. vol. 148; p. 90.  
 Rotary engine. J. A. Mack. No. 939,609; Nov. 9; Sp. p. 2580; Gaz. vol. 148; p. 424.  
 Rotary engine. J. Marks. No. 939,729; Nov. 9; Sp. p. 2824; Gaz. vol. 148; p. 467.  
 Rotary engine. G. Schulz. No. 939,751; Nov. 9; Sp. p. 2877; Gaz. vol. 148; p. 474.  
 Rotary engine. J. A. Quill. No. 939,801; Nov. 9; Sp. p. 3101; Gaz. vol. 148; p. 512.  
 Rotary engine. J. C. Hagerty. No. 940,246; Nov. 16; Sp. p. 3979; Gaz. vol. 148; p. 677.  
 Rotary engine. H. Roux. No. 942,413; Dec. 7; Sp. p. 794; Gaz. vol. 149; p. 129.  
 Rotary engine. W. W. Wheeler. No. 942,476; Dec. 7; Sp. p. 941; Gaz. vol. 149; p. 152.  
 Rotary engine. C. Guyer. No. 944,361; Dec. 28; Sp. p. 4992; Gaz. vol. 149; p. 879.  
 Rotary engine. L. B. Wishaar. No. 944,400; Dec. 28; Sp. p. 5075; Gaz. vol. 149; p. 893.



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- Rotary engine, Compound. J. A. Eaton. No. 925,467; June 22; Sp. p. 4974; Gaz. vol. 143; p. 878.
- Rotary explosion-engine. W. A. Smith. No. 920,678; May 4; Sp. p. 1198; Gaz. vol. 142; p. 193.
- Rotary explosive-engine. S. H. Conkey. No. 921,802; May 18; Sp. p. 3517; Gaz. vol. 142; p. 624.
- Rotary gas or oil engine, Reversible. A. Finch. No. 937,298; Oct. 19; Sp. p. 3535; Gaz. vol. 147; p. 611.
- Rotary gasolene-engine. T. E. Braley. No. 943,592; Dec. 14; Sp. p. 3325; Gaz. vol. 149; p. 560.
- Rotary kiln. M. G. Semper. No. 909,464; Jan. 12; Sp. p. 2084; Gaz. vol. 138; p. 370.
- Rotary internal-combustion engine. A. P. Plates. No. 932,321; Aug. 24; Sp. p. 5699; Gaz. vol. 145; p. 972.
- Rotary internal-combustion engine. F. W. Goyette. No. 932,463; Aug. 31; Sp. p. 5984; Gaz. vol. 145; p. 1041.
- Rotary internal-combustion motor. F. Kasparek. No. 930,601; Aug. 10; Sp. p. 2014; Gaz. vol. 145; p. 353.
- Rotary machine. L. J. J. Le Rond. No. 919,897; Apr. 27; Sp. p. 6297; Gaz. vol. 141; p. 1075.
- Rotary machine. J. Sveich. No. 926,301; June 29; Sp. p. 6731; Gaz. vol. 143; p. 1187.
- Rotary machine. C. G. Conn. No. 931,038; Aug. 17; Sp. p. 2966; Gaz. vol. 145; p. 524.
- Rotary motor. G. W. Flora. No. 909,774; Jan. 12; Sp. p. 2696; Gaz. vol. 138; p. 477.
- Rotary motor. P. J. Darlington. No. 914,022; Mar. 2; Sp. p. 806; Gaz. vol. 140; p. 123.
- Rotary motor. E. R. Mills and C. A. Conn. No. 914,155; Mar. 2; Sp. p. 1061; Gaz. vol. 140; p. 168.
- Rotary motor. W. S. Elliott, C. A. Conn, and H. B. Holt. No. 917,724; Apr. 6; Sp. p. 1485; Gaz. vol. 141; p. 259.
- Rotary motor. C. R. Wolcott. No. 925,149; June 15; Sp. p. 4372; Gaz. vol. 143; p. 746.
- Rotary motor. A. Brauer. No. 926,846; July 6; Sp. p. 298; Gaz. vol. 144; p. 47.
- Rotary motor. A. B. Chapman and F. A. Shoemaker. No. 927,639; July 13; Sp. p. 1944; Gaz. vol. 144; p. 341.
- Rotary motor. M. Naeder. No. 928,270; July 20; Sp. p. 3283; Gaz. vol. 144; p. 581.
- Rotary motor. J. Ripberger. No. 929,018; July 27; Sp. p. 4795; Gaz. vol. 144; p. 857.
- Rotary motor. J. W. Mooney. No. 930,403; Aug. 10; Sp. p. 1573; Gaz. vol. 145; p. 285.
- Rotary motor. S. T. Holly. No. 931,872; Aug. 24; Sp. p. 4753; Gaz. vol. 145; p. 822.
- Rotary motor. W. S. Elliott. No. 938,228; Oct. 26; Sp. p. 5508; Gaz. vol. 147; p. 941.
- Rotary motor. E. E. Hauert. No. 940,150; Nov. 16; Sp. p. 3771; Gaz. vol. 148; p. 643.
- Rotary motor. R. McGraw. No. 943,783; Dec. 21; Sp. p. 3769; Gaz. vol. 149; p. 656.
- Rotary motor. L. P. Stevens. No. 944,581; Dec. 28; Sp. p. 5507; Gaz. vol. 149; p. 956.
- Rotary motor and pump. J. R. Kinney. No. 942,080; Dec. 7; Sp. p. 85; Gaz. vol. 149; p. 15.
- Rotary motor or pump. M. H. Dowling. No. 926,731; July 6; Sp. p. 22; Gaz. vol. 144; p. 7.
- Rotary motor or pump. J. R. Kinney. No. 936,542; Oct. 12; Sp. p. 1997; Gaz. vol. 147; p. 329.
- Rotary pressure-motor. P. T. Coffield. No. 926,689; June 29; Sp. p. 7462; Gaz. vol. 143; p. 1315.
- Rotary rack. F. J. Panzer. No. 929,324; July 27; Sp. p. 5473; Gaz. vol. 144; p. 960.
- Rotary reversible engine. W. Risley. No. 937,718; Oct. 19; Sp. p. 4414; Gaz. vol. 147; p. 749.
- Rotary shears. F. E. Liebig and R. Ludewig. No. 924,251; June 8; Sp. p. 2532; Gaz. vol. 143; p. 412.
- Rotary steam-engine. P. C. Burhans. No. 920,911; May 11; Sp. p. 1673; Gaz. vol. 142; p. 298.
- Rotary steam-engine. F. J. Waters. No. 926,914; July 6; Sp. p. 439; Gaz. vol. 144; p. 71.
- Rotary steam-engine. W. M. Farrow, Jr. No. 927,781; July 13; Sp. p. 2240; Gaz. vol. 144; p. 387.
- Rotary steam-engine. C. Miller. No. 931,785; Aug. 24; Sp. p. 4584; Gaz. vol. 145; p. 795.
- Rotary steam-engine. J. E. Friend. No. 935,101; Sept. 28; Sp. p. 4286; Gaz. vol. 146; p. 766.
- Rotary steam-engine. J. W. Johnson. No. 942,205; Dec. 7; Sp. p. 380; Gaz. vol. 149; p. 58.
- Rotary steam-engine. W. E. Minue. No. 942,275; Dec. 7; Sp. p. 525; Gaz. vol. 149; p. 83.
- Rotary steam-engine, Reversible. L. Hills. No. 933,037; Aug. 31; Sp. p. 7176; Gaz. vol. 145; p. 1231.
- Rotary steam-motor. H. R. Fisher. No. 934,803; Sept. 21; Sp. p. 3679; Gaz. vol. 146; p. 639.
- Rotary table. J. F. Beatty. No. 937,755; Oct. 26; Sp. p. 4491; Gaz. vol. 147; p. 780.
- Rotary tools, Support and driving mechanism for. E. G. Buchmann. No. 929,282; July 27; Sp. p. 5362; Gaz. vol. 144; p. 944.
- Rotatable spindle. J. V. Cuniff. No. 920,830; May 4; Sp. p. 1490; Gaz. vol. 142; p. 241.
- Rotating parts, Method and means for working eccentrically-. E. Thunberg. No. 923,732; June 1; Sp. p. 1356; Gaz. vol. 143; p. 211.
- Rotation-indicating instrument. H. P. C. Browne and W. H. Palmer, Jr. No. 925,078; June 15; Sp. p. 4233; Gaz. vol. 143; p. 721.
- Rotative motor. E. E. Duschek. No. 915,751; Mar. 23; Sp. p. 4347; Gaz. vol. 140; p. 772.
- Rotor construction. B. A. Behrend. No. 921,505; May 11; Sp. p. 2907; Gaz. vol. 142; p. 499.
- Rotor construction. E. Mattman. No. 922,794; May 25; Sp. p. 5553; Gaz. vol. 142; p. 976.
- Rotor construction. B. A. Behrend. No. 932,097; Aug. 24; Sp. p. 5264; Gaz. vol. 145; p. 897.
- Rotor construction. A. H. Wouters. No. 932,662; Aug. 31; Sp. p. 6427; Gaz. vol. 145; p. 1109.
- Rouge-holder. A. Schneider. No. 911,270; Feb. 2; Sp. p. 494; Gaz. vol. 139; p. 84.
- Rough-rounding and channeling machine. E. Bayard. No. 937,504; Oct. 19; Sp. p. 4000; Gaz. vol. 147; p. 679.
- Roundabout. C. D. Sauvè. No. 922,723; May 25; Sp. p. 5404; Gaz. vol. 142; p. 952.
- Roundabout driving mechanism. A. W. Jones. No. 937,531; Oct. 19; Sp. p. 4055; Gaz. vol. 147; p. 689.
- Roundabout, Vertical. W. A. Sullivan. No. 941,209; Nov. 23; Sp. p. 6108; Gaz. vol. 148; p. 1025.
- Roundhouse system. C. W. Johnson. No. 929,857; Aug. 3; Sp. p. 500; Gaz. vol. 145; p. 80.
- Route-indicator, Automobile. F. J. Lindenthaler and J. Protz. No. 915,976; Mar. 23; Sp. p. 4772; Gaz. vol. 140; p. 844.
- Routing-machine cutter-guiding templet. C. W. Montgomery. No. 909,636; Jan. 12; Sp. p. 2426; Gaz. vol. 138; p. 430.
- Routing-machine guide device. W. H. Ahlers. No. 931,552; Aug. 17; Sp. p. 4045; Gaz. vol. 145; p. 697.
- Roving-frames, &c., Means for cleaning the drawing-rolls of. A. P. Escubos. No. 932,977; Aug. 31; Sp. p. 7042; Gaz. vol. 145; p. 1211.
- Rubber. J. S. Ramlose. No. 912,030; Feb. 9; Sp. p. 2061; Gaz. vol. 139; p. 359.
- Rubber. D. Sandmann. No. 935,414; Sept. 28; Sp. p. 4900; Gaz. vol. 146; p. 866.
- Rubber and cellulose, Manufacture of products containing india-. P. Defaucamberge. No. 943,658; Dec. 21; Sp. p. 3531; Gaz. vol. 149; p. 614.
- Rubber articles, Making hollow. F. J. Gleason. No. 910,370; Jan. 19; Sp. p. 3956; Gaz. vol. 138; p. 712.
- Rubber, ebolic, or vulcanite, Manufacturing goods of. C. C. Immisch. No. 931,310; Aug. 17; Sp. p. 3588; Gaz. vol. 145; p. 618.
- Rubber elastic force-cup. W. F. Schacht. No. 930,236; Aug. 3; Sp. p. 1259; Gaz. vol. 145; p. 208.
- Rubber footwear. G. E. Smith. No. 920,676; May 4; Sp. p. 1195; Gaz. vol. 142; p. 192.
- Rubber footwear, Making. E. A. Saunders. No. 927,287; July 6; Sp. p. 1197; Gaz. vol. 144; p. 197.
- Rubber from rubber-bearing plants, Mechanical separation of. E. Delafond. No. 920,279; May 4; Sp. p. 411; Gaz. vol. 142; p. 62.
- Rubber, gutta-percha, and their artificial substitutes, Agglomeration and regeneration of india-. E. A. L. Rouexville. No. 922,339; May 18; Sp. p. 4594; Gaz. vol. 142; p. 798.
- Rubber heel. R. T. Elwell. No. 909,567; Jan. 12; Sp. p. 2294; Gaz. vol. 138; p. 406.
- Rubber heel, interchangeable. F. G. Sherman. No. 944,287; Dec. 28; Sp. p. 4828; Gaz. vol. 149; p. 852.
- Rubber heel, Removable. J. H. Dempsey. No. 914,810; Mar. 9; Sp. p. 2423; Gaz. vol. 140; p. 407.
- Rubber hose, Machine for applying wrappings to. S. J. Sill. No. 910,871; Jan. 26; Sp. p. 4985; Gaz. vol. 138; p. 900.
- Rubber hose, Making. F. J. Gleason. No. 935,254; Sept. 28; Sp. p. 4582; Gaz. vol. 146; p. 815.
- Rubber-like gum from its vegetable sources, Extracting. E. H. Hunnicke. No. 931,120; Aug. 17; Sp. p. 3149; Gaz. vol. 145; p. 552.
- Rubber-like gum from its vegetable sources, Extracting. F. H. Hunnicke. No. 931,121; Aug. 17; Sp. p. 3151; Gaz. vol. 145; p. 552.
- Rubber, Manufacture of. M. Wilderman. No. 908,925; Jan. 5; Sp. p. 1014; Gaz. vol. 138; p. 163.
- Rubber or caoutchouc, Preparation or regeneration of. F. W. Fassmore. No. 924,101; June 8; Sp. p. 2158; Gaz. vol. 143; p. 360.
- Rubber overshoe and fastening device therefor. L. Reed. No. 927,282; July 6; Sp. p. 1187; Gaz. vol. 144; p. 195.
- Rubber, Reclaiming devulcanized. E. E. A. G. Meyer. No. 913,218; Feb. 23; Sp. p. 4525; Gaz. vol. 139; p. 814.
- Rubber, Reclaiming devulcanized. E. E. A. G. Meyer. No. 936,468; Oct. 12; Sp. p. 1837; Gaz. vol. 147; p. 305.
- Rubber-ring-cutting machine. L. J. Pianarosa. No. 913,558; Feb. 23; Sp. p. 5254; Gaz. vol. 139; p. 930.
- Rubber shoes, Apparatus for varnishing. J. H. Wall. No. 918,228; Apr. 13; Sp. p. 2574; Gaz. vol. 141; p. 459.
- Rubber soles to boots and shoes, Apparatus for applying. E. A. Saunders. No. 939,330; Nov. 9; Sp. p. 1937; Gaz. vol. 148; p. 331.
- Rubber spading-boot. S. V. Van Denburgh and J. H. Glismann. No. 923,718; July 20; Sp. p. 4183; Gaz. vol. 144; p. 729.
- Rubber-stamp device. H. Schmidt and J. Heissenberger. No. 929,501; July 27; Sp. p. 5786; Gaz. vol. 144; p. 1015.
- Rubber stamp, Self-inking. L. P. Lowe. No. 917,781; Apr. 13; Sp. p. 1647; Gaz. vol. 141; p. 306.
- Rubber-treating apparatus. E. Molina. No. 914,156; Mar. 2; Sp. p. 1062; Gaz. vol. 140; p. 169.
- Rubber waste of all kinds, Regenerating. J. H. L. Neilson. No. 921,148; May 11; Sp. p. 2146; Gaz. vol. 142; p. 378.
- Rubbing-post. S. B. Wasson. No. 936,687; Oct. 12; Sp. p. 2294; Gaz. vol. 147; p. 380.
- Ruching-reel. J. C. Schmieder. No. 926,359; June 29; Sp. p. 6854; Gaz. vol. 143; p. 1206.
- Rudder, Jury-. W. Manwaring. No. 928,612; July 20; Sp. p. 3977; Gaz. vol. 144; p. 694.
- Rug-clamp. J. B. Petrie and R. C. Rebholz. No. 913,159; Feb. 23; Sp. p. 4399; Gaz. vol. 139; p. 795.
- Rug-hanger. R. W. and R. M. Kolini. No. 927,053; July 6; Sp. p. 743; Gaz. vol. 144; p. 118.
- Rug-hanger. M. Braynes. No. 938,117; Oct. 26; Sp. p. 5255; Gaz. vol. 147; p. 902.
- Rug-holder, Porous. C. E. Knapp. No. 922,703; May 25; Sp. p. 5371; Gaz. vol. 142; p. 947.
- Rug stiffener and protector. C. E. Lane. No. 926,125; June 29; Sp. p. 6355; Gaz. vol. 143; p. 1129.

*Alphabetical list of inventions—Continued.*

- Rule. C. Hansen. No. 922,580; May 25; Sp. p. 5112; Gaz. vol. 142; p. 907.  
 Rule. W. Klie. No. 924,671; June 15; Sp. p. 3398; Gaz. vol. 143; p. 584.  
 Rule. P. F. Burns. No. 941,492; Nov. 30; Sp. p. 6722; Gaz. vol. 148; p. 1139.  
 Rule. G. A. Monselli. No. 941,936; Nov. 30; Sp. p. 7660; Gaz. vol. 148; p. 1290.  
 Rule. C. E. Jewell and C. H. Westcott. No. 942,327; Dec. 7; Sp. p. 634; Gaz. vol. 149; p. 101.  
 Rule. W. L. Need. No. 942,583; Dec. 7; Sp. p. 1151; Gaz. vol. 149; p. 187.  
 Rule and linotype-slug holder, Election-square. B. D. Deyo. No. 936,612; Oct. 12; Sp. p. 2140; Gaz. vol. 147; p. 355.  
 Rule and square. Combined. H. S. Humes. No. 932,281; Aug. 24; Sp. p. 5621; Gaz. vol. 145; p. 959.  
 Rule-clamp. J. T. Moyer. No. 916,473; Mar. 30; Sp. p. 5725; Gaz. vol. 140; p. 1033.  
 Rule, Combination-. J. D. McCann, Jr. No. 914,359; Mar. 2; Sp. p. 1510; Gaz. vol. 140; p. 233.  
 Rule, Extension-. C. K. Denman and W. H. Murphy. No. 909,068; Jan. 5; Sp. p. 1302; Gaz. vol. 138; p. 209.  
 Rule, Flexible slide-. R. J. Roberts. No. 937,863; Oct. 26; Sp. p. 4722; Gaz. vol. 147; p. 817.  
 Rule-holder. L. N. Stewart. No. 932,346; Aug. 24; Sp. p. 5743; Gaz. vol. 145; p. 980.  
 Rule-joint. T. Prentice. No. 909,819; Jan. 12; Sp. p. 2786; Gaz. vol. 138; p. 490.  
 Rule-joint, Folding-. C. Bodmer. No. 928,174; July 13; Sp. p. 3035; Gaz. vol. 144; p. 518.  
 Ruler. L. Fox. No. 910,523; Jan. 26; Sp. p. 4287; Gaz. vol. 138; p. 787.  
 Ruler and blotter, Combined. J. W. Guillott. No. 937,598; Oct. 19; Sp. p. 4174; Gaz. vol. 147; p. 711.  
 Ruler, Compass-. J. A. Rydman. No. 932,907; Aug. 31; Sp. p. 6913; Gaz. vol. 145; p. 1188.  
 Ruler for drawing curves, Flexible. C. and O. Bartels. No. 940,118; Nov. 16; Sp. p. 3711; Gaz. vol. 148; p. 632.  
 Ruler, Parallel-. H. Van Altena. No. 933,798; Sept. 14; Sp. p. 1698; Gaz. vol. 146; p. 282.  
 Ruler, Parallel-. F. W. Sterling. No. 935,424; Sept. 28; Sp. p. 4917; Gaz. vol. 146; p. 869.  
 Ruler, Parallel-. G. W. Young. No. 937,501; Oct. 19; Sp. p. 3995; Gaz. vol. 147; p. 677.  
 Ruling device. E. A. Auerbach. No. 942,877; Dec. 14; Sp. p. 1796; Gaz. vol. 149; p. 317.  
 Ruling-machine. T. Munzert. No. 918,076; Apr. 13; Sp. p. 2269; Gaz. vol. 141; p. 408.  
 Ruling-machine. R. C. Stevens. No. 927,468; July 6; Sp. p. 1562; Gaz. vol. 144; p. 256.  
 Ruling-machine, Automatic. C. U. Brewster. No. 932,676; Aug. 31; Sp. p. 6461; Gaz. vol. 145; p. 1114.  
 Ruling-machine gage, Paper-. C. O. Whearley. No. 935,716; Oct. 5; Sp. p. 197; Gaz. vol. 147; p. 31.  
 Ruling-machine pen-clamping device. C. Burrows. No. 927,634; July 13; Sp. p. 1937; Gaz. vol. 144; p. 340.  
 Ruling-machine perforating attachment. J. W. Ball. No. 927,400; July 6; Sp. p. 1395; Gaz. vol. 144; p. 231.  
 Ruling mechanism. D. W. Custer. No. 910,460; Jan. 19; Sp. p. 4145; Gaz. vol. 138; p. 743.  
 Runner, Detachable. S. Hand. No. 936,449; Oct. 12; Sp. p. 1801; Gaz. vol. 147; p. 299.  
 Running-gear. C. Wyman. No. 938,196; Oct. 26; Sp. p. 5443; Gaz. vol. 147; p. 930.  
 Running-gear. A. T. Newell. No. 942,182; Dec. 7; Sp. p. 334; Gaz. vol. 149; p. 51.  
 Rural-delivery-box signal. B. Oliver. No. 918,899; Apr. 20; Sp. p. 4045; Gaz. vol. 141; p. 710.  
 Sack-carrier. W. J. Gould. No. 920,453; May 4; Sp. p. 735; Gaz. vol. 142; p. 117.  
 Sack-holder. R. H. West. No. 917,820; Apr. 13; Sp. p. 1724; Gaz. vol. 141; p. 318.  
 Sack-holder. J. E. Hull. No. 939,508; Nov. 9; Sp. p. 2348; Gaz. vol. 148; p. 389.  
 Sack-holder. J. Rix. No. 944,211; Dec. 21; Sp. p. 4661; Gaz. vol. 149; p. 799.  
 Sack-turner. G. R. Bartholomew. No. 925,267; June 15; Sp. p. 4590; Gaz. vol. 143; p. 784.  
 Sacks, Apparatus for automatically filling, weighing, and registering. C. Droz. No. 932,688; Aug. 31; Sp. p. 6484; Gaz. vol. 145; p. 1118.  
 Sacks inside, Apparatus for cleaning. C. O. R. Holmström. No. 920,573; May 4; Sp. p. 970; Gaz. vol. 142; p. 158.  
 Sacker. J. P. McTimmonds. No. 936,149; Oct. 5; Sp. p. 1157; Gaz. vol. 147; p. 175.  
 Sacristy combination-stand for Catholic churches. J. Jacobson. No. 920,576; May 4; Sp. p. 975; Gaz. vol. 142; p. 159.  
 Sad-iron. H. Wonderlich. No. 911,795; Feb. 9; Sp. p. 1510; Gaz. vol. 139; p. 282.  
 Sad-iron. H. Wonderlich. No. 912,222; Feb. 9; Sp. p. 2421; Gaz. vol. 139; p. 418.  
 Sad-iron. E. F. Stenman. No. 915,242; Mar. 16; Sp. p. 3289; Gaz. vol. 140; p. 575.  
 Sad-iron. D. Brightbill. No. 929,545; July 27; Sp. p. 5865; Gaz. vol. 144; p. 1030.  
 Sad-iron. G. P. Clements. No. 932,248; Aug. 24; Sp. p. 5564; Gaz. vol. 145; p. 947.  
 Sad-iron. M. J. Haber. No. 938,762; Nov. 2; Sp. p. 670; Gaz. vol. 148; p. 107.  
 Sad-iron. C. W. Wodnski. No. 942,026; Nov. 30; Sp. p. 7826; Gaz. vol. 148; p. 1318.  
 Sad-iron. J. Kadiera. No. 943,254; Dec. 14; Sp. p. 2629; Gaz. vol. 149; p. 445.  
 Sad-iron. F. W. Emerson. No. 943,302; Dec. 14; Sp. p. 2732; Gaz. vol. 149; p. 461.  
 Sad-iron-edging machine. R. H. Dorsey. No. 927,130; July 6; Sp. p. 901; Gaz. vol. 144; p. 145.  
 Sad-iron, Electrical. W. A. Braun. No. 941,342; Nov. 23; Sp. p. 6367; Gaz. vol. 148; p. 1065.  
 Sad-iron-facing machine. R. H. Dorsey. No. 933,962; Sept. 14; Sp. p. 2036; Gaz. vol. 146; p. 336.  
 Sad-iron, Gas-heated. C. F. Capell. No. 924,037; June 8; Sp. p. 2047; Gaz. vol. 143; p. 340.  
 Sad-iron heater. W. A. Flatt. No. 922,872; May 25; Sp. p. 5748; Gaz. vol. 142; p. 1002.  
 Sad-iron heater. J. M. Harper. No. 935,106; Sept. 28; Sp. p. 4306; Gaz. vol. 146; p. 768.  
 Sad-iron heater and receptacle. F. W. Wantzel. No. 930,003; Aug. 3; Sp. p. 811; Gaz. vol. 145; p. 130.  
 Sad-iron holder. H. F. Moulden. No. 935,123; Sept. 28; Sp. p. 4332; Gaz. vol. 146; p. 773.  
 Sad-iron, Hydrocarbon. F. A. Hoya. No. 937,070; Oct. 19; Sp. p. 3052; Gaz. vol. 147; p. 536.  
 Sad-iron, Self-heated. A. H. Davies. No. 931,686; Aug. 17; Sp. p. 4323; Gaz. vol. 145; p. 738.  
 Sad-iron, Self-heating. C. C. Sprinkle. No. 908,705; Jan. 5; Sp. p. 588; Gaz. vol. 138; p. 91.  
 Sad-iron, Self-heating. J. Borda. No. 944,842; Dec. 28; Sp. p. 6071; Gaz. vol. 149; p. 1044.  
 Sad-iron socket-support, Electric-. M. Griswold, Jr. No. 918,533; Apr. 20; Sp. p. 3202; Gaz. vol. 141; p. 586.  
 Sad-iron support. F. Kuhn. No. 929,093; July 27; Sp. p. 4943; Gaz. vol. 144; p. 881.  
 Sad-iron support. G. Ellstrom. No. 944,182; Dec. 21; Sp. p. 4611; Gaz. vol. 149; p. 791.  
 Sad-iron waxer. L. Will. No. 929,065; July 27; Sp. p. 4890; Gaz. vol. 144; p. 872.  
 Saddle. A. P. Fachiri. No. 909,385; Jan. 12; Sp. p. 1932; Gaz. vol. 138; p. 344.  
 Saddle. E. Krueger. No. 920,347; May 4; Sp. p. 524; Gaz. vol. 142; p. 83.  
 Saddle device, Harness-. A. F. Montin. No. 912,148; Feb. 9; Sp. p. 2286; Gaz. vol. 139; p. 396.  
 Saddle for cart-harness. N. Graziano. No. 918,999; Apr. 20; Sp. p. 4248; Gaz. vol. 141; p. 742.  
 Saddle, Harness-. F. E. Edelbrock. No. 911,299; Feb. 2; Sp. p. 549; Gaz. vol. 139; p. 94.  
 Saddle, Harness-. C. F. Wiesenmeyer. No. 915,520; Mar. 16; Sp. p. 3821; Gaz. vol. 140; p. 665.  
 Saddle mechanism, Top-roll-. L. T. Houghton. No. 927,539; July 13; Sp. p. 1716; Gaz. vol. 144; p. 306.  
 Saddle mechanism, Top-roll-. L. T. Houghton. No. 927,540; July 13; Sp. p. 1719; Gaz. vol. 144; p. 307.  
 Saddle-pad. T. I. Morrish. No. 944,571; Dec. 28; Sp. p. 5487; Gaz. vol. 149; p. 952.  
 Saddle-pad, Harness. J. Mosher. No. 916,352; Mar. 23; Sp. p. 5453; Gaz. vol. 140; p. 968.  
 Saddle-pads, Securing means for. T. I. Morrish. No. 944,572; Dec. 28; Sp. p. 5488; Gaz. vol. 149; p. 952.  
 Saddle, Running-board. J. J. Hoffman. No. 915,351; Mar. 16; Sp. p. 3494; Gaz. vol. 140; p. 609.  
 Saddle spring, Harness-. W. H. Aide. No. 923,102; May 25; Sp. p. 6197; Gaz. vol. 142; p. 1074.  
 Saddle, Top-roll. E. Dixon. No. 912,650; Feb. 16; Sp. p. 3354; Gaz. vol. 139; p. 602.  
 Saddletree. B. F. Amos. No. 914,546; Mar. 9; Sp. p. 1879; Gaz. vol. 140; p. 320.  
 Safe. T. S. Spivey. No. 908,511; Jan. 5; Sp. p. 157; Gaz. vol. 138; p. 29.  
 Safe. O. W. Bedell. No. 909,523; Jan. 12; Sp. p. 2205; Gaz. vol. 138; p. 391.  
 Safe. S. A. Ely. No. 909,568; Jan. 12; Sp. p. 2295; Gaz. vol. 138; p. 406.  
 Safe. H. W. Neal. No. 915,999; Mar. 23; Sp. p. 4814; Gaz. vol. 140; p. 851.  
 Safe and vault doors, Mounting heavy. G. L. Damon. No. 908,448; Jan. 5; Sp. p. 30; Gaz. vol. 138; p. 7.  
 Safe auxiliary locking mechanism. A. Marsh. No. 915,617; Mar. 16; Sp. p. 4039; Gaz. vol. 140; p. 698.  
 Safe-closing means. G. A. Hattersley. No. 916,704; Mar. 30; Sp. p. 6181; Gaz. vol. 140; p. 1107.  
 Safe, Coin-. W. T. Gordon. No. 927,461; July 6; Sp. p. 1548; Gaz. vol. 144; p. 254.  
 Safe, Collection-. G. L. Maw. No. 944,198; Dec. 21; Sp. p. 4641; Gaz. vol. 149; p. 795.  
 Safe, Coupon-. C. F. Jones. No. 923,532; June 1; Sp. p. 930; Gaz. vol. 143; p. 144.  
 Safe-door. W. E. Wilkinson and G. L. Mummert. No. 909,496; Jan. 12; Sp. p. 2150; Gaz. vol. 138; p. 381.  
 Safe-door. J. M. Allen. No. 912,768; Feb. 16; Sp. p. 3653; Gaz. vol. 139; p. 644.  
 Safe-door cam. C. Bartels. No. 938,545; Nov. 2; Sp. p. 239; Gaz. vol. 148; p. 35.  
 Safe-doors, Operating mechanism for bolts of. W. E. Wilkinson. No. 930,328; Aug. 3; Sp. p. 1418; Gaz. vol. 145; p. 236.  
 Safe, Fireproof. P. Adolphs. No. 944,007; Dec. 21; Sp. p. 4262; Gaz. vol. 149; p. 733.  
 Safe, Kitchen-. J. E. Stephens. No. 920,095; Apr. 27; Sp. p. 6717; Gaz. vol. 141; p. 1140.  
 Safe or vault. W. G. Norris. No. 940,268; Nov. 16; Sp. p. 4020; Gaz. vol. 148; p. 685.  
 Safe, Protecting-. F. C. Martin and J. W. Smith. No. 943,437; Dec. 14; Sp. p. 3006; Gaz. vol. 149; p. 507.  
 Safe, Provision-. H. Miller. No. 913,222; Feb. 23; Sp. p. 4533; Gaz. vol. 139; p. 816.  
 Safe, Revolving. J. S. McCormick. No. 941,940; Nov. 30; Sp. p. 7667; Gaz. vol. 148; p. 1291.



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- Safe structure. G. A. Hattersley. No. 912,473; Feb. 16; Sp. p. 2988; Gaz. vol. 139; p. 540.
- Safe, Wall-. H. C. Lowrie. No. 915,979; Mar. 23; Sp. p. 4777; Gaz. vol. 140; p. 844.
- Safe, Wall-. W. H. Reynolds. No. 939,322; Nov. 9; Sp. p. 1925; Gaz. vol. 148; p. 329.
- Safe, Walled. E. C. Kelonge. No. 937,215; Oct. 19; Sp. p. 3361; Gaz. vol. 147; p. 583.
- Safe, Window-. M. H. Schrenkelsen and J. W. Hellion. No. 930,240; Aug. 3; Sp. p. 1268; Gaz. vol. 145; p. 209.
- Safes and strong-rooms. Safety-screen for. E. Branly and H. Laurent. No. 926,385; June 29; Sp. p. 6894; Gaz. vol. 143; p. 1214.
- Safes, Boltwork for circular doors for. W. E. Wilkinson and G. L. Mummert. No. 929,907; Aug. 3; Sp. p. 615; Gaz. vol. 145; p. 97.
- Safety appliance. Q. T. Howard and W. M. Stark. No. 935,605; Sept. 23; Sp. p. 5306; Gaz. vol. 146; p. 930.
- Safety appliance. M. Matzner. No. 936,006; Oct. 5; Sp. p. 5858; Gaz. vol. 147; p. 129.
- Safety-box, Electric. H. A. Fisher. No. 944,605; Dec. 28; Sp. p. 5564; Gaz. vol. 149; p. 965.
- Safety device. D. M. Watkins. No. 918,106; Apr. 13; Sp. p. 2333; Gaz. vol. 141; p. 417.
- Safety device. W. Cooper. No. 928,903; July 20; Sp. p. 4558; Gaz. vol. 144; p. 793.
- Safety device. C. W. Burris. No. 943,862; Dec. 21; Sp. p. 3931; Gaz. vol. 149; p. 683.
- Safety device, Automatic. W. D. Gelsner. No. 922,881; May 25; Sp. p. 5764; Gaz. vol. 142; p. 1005.
- Safety device, Automatic. F. F. Bourdill. No. 930,141; Aug. 3; Sp. p. 1096; Gaz. vol. 145; p. 178.
- Safety-elevator. J. Driscoll. No. 924,750; June 15; Sp. p. 3561; Gaz. vol. 143; p. 611.
- Safety-locking-switch. D. A. Beezley. No. 926,459; June 29; Sp. p. 7031; Gaz. vol. 143; p. 1239.
- Safety-pin. S. Olop. No. 908,693; Jan. 5; Sp. p. 556; Gaz. vol. 138; p. 87.
- Safety-pin. W. H. Farmer. No. 921,684; May 18; Sp. p. 3293; Gaz. vol. 142; p. 586.
- Safety-stop-signal, Automatic. W. E. Adams. No. 928,834; July 20; Sp. p. 4408; Gaz. vol. 144; p. 768.
- Safety-switch. F. Smith. No. 925,395; June 15; Sp. p. 4822; Gaz. vol. 143; p. 824.
- Safety-switch. J. E. Mustard. No. 925,589; June 22; Sp. p. 5217; Gaz. vol. 143; p. 918.
- Safety-switch. J. T. Krieger. No. 931,208; Aug. 17; Sp. p. 3351; Gaz. vol. 145; p. 582.
- Safety-switch. C. M. Parker. No. 933,387; Sept. 7; Sp. p. 805; Gaz. vol. 146; p. 125.
- Safety-switch, Automatic. T. C. King. No. 926,575; June 29; Sp. p. 7228; Gaz. vol. 143; p. 1278.
- Sage-brush and weed cutter. H. E. Gale and E. E. Krengel. No. 939,595; Nov. 9; Sp. p. 2554; Gaz. vol. 148; p. 419.
- Saggar. W. E. Rivers. No. 941,044; Nov. 23; Sp. p. 5740; Gaz. vol. 148; p. 969.
- Sail, Skating-. J. E. Johnson. No. 915,677; Mar. 16; Sp. p. 4186; Gaz. vol. 140; p. 722.
- Sales and cash register. W. H. Stepanek. No. 921,304; May 11; Sp. p. 2477; Gaz. vol. 142; p. 430.
- Salt and pepper box. H. A. Sedgwick. No. 917,804; Apr. 13; Sp. p. 1688; Gaz. vol. 141; p. 313.
- Salt and pepper shaker, Combined. E. M. Hastings and H. C. Bilbro. No. 923,650; June 1; Sp. p. 1198; Gaz. vol. 143; p. 184.
- Salt-cellar. W. E. Snediker. No. 919,483; Apr. 27; Sp. p. 5432; Gaz. vol. 141; p. 936.
- Salt-cellar. H. J. Trimble. No. 922,978; May 25; Sp. p. 5938; Gaz. vol. 142; p. 1035.
- Salt-cellar. C. O. Bouvett. No. 933,690; Sept. 7; Sp. p. 1488; Gaz. vol. 146; p. 224.
- Salt, Manufacture of. B. F. McTeer. No. 933,572; Sept. 7; Sp. p. 1246; Gaz. vol. 146; p. 184.
- Salt-shaker. J. W. Meaker. No. 913,025; Feb. 23; Sp. p. 4130; Gaz. vol. 139; p. 750.
- Salt-shaker. J. W. Meaker. No. 913,026; Feb. 23; Sp. p. 4132; Gaz. vol. 139; p. 750.
- Salt-shaker. J. W. Meaker. No. 913,027; Feb. 23; Sp. p. 4134; Gaz. vol. 139; p. 751.
- Salts, Neutralizing solutions of. B. Diamond. No. 938,128; Oct. 26; Sp. p. 5294; Gaz. vol. 147; p. 905.
- Salve and ointment, Non-odoriferous phenol. N. Sulsberger. No. 938,614; Nov. 2; Sp. p. 391; Gaz. vol. 148; p. 58.
- Sample-case having link-connected trays. W. Schweitzer and H. H. Labadie. No. 923,378; June 1; Sp. p. 608; Gaz. vol. 143; p. 89.
- Sample case, Merchandise-. C. G. Duffy. No. 918,297; Apr. 13; Sp. p. 2716; Gaz. vol. 141; p. 481.
- Samson-post. T. J. Oney. No. 926,959; July 6; Sp. p. 529; Gaz. vol. 144; p. 86.
- Sand and slime separator and classifier. C. Allen. No. 942,697; Dec. 7; Sp. p. 1371; Gaz. vol. 149; p. 225.
- Sand, Apparatus for cleaning and separation of. E. M. Nichols. No. 936,801; Oct. 12; Sp. p. 2512; Gaz. vol. 147; p. 419.
- Sand-band. H. G. Peters. No. 923,995; June 8; Sp. p. 1975; Gaz. vol. 143; p. 327.
- Sand-belt machine. E. J. Jackboice and R. M. Gleason. No. 933,305; Sept. 7; Sp. p. 617; Gaz. vol. 146; p. 96.
- Sand-blast apparatus. D. A. Nichols. No. 911,431; Feb. 2; Sp. p. 786; Gaz. vol. 139; p. 137.
- Sand-blast apparatus. J. C. Pangborn and T. Hall. No. 925,591; June 22; Sp. p. 5220; Gaz. vol. 143; p. 918.
- Sand-blast blower. D. A. M. Doublet. No. 931,579; Aug. 17; Sp. p. 4097; Gaz. vol. 145; p. 705.
- Sand-blast device. S. L. Young. No. 923,100; May 25; Sp. p. 6196; Gaz. vol. 142; p. 1074.
- Sand-blast machine. F. P. Boland. No. 914,105; Mar. 2; Sp. p. 968; Gaz. vol. 140; p. 152.
- Sand-blast machine. F. P. Boland. No. 914,783; Mar. 9; Sp. p. 2375; Gaz. vol. 140; p. 399.
- Sand-box. T. J. Mullen and T. F. Brennan. No. 926,586; June 29; Sp. p. 7248; Gaz. vol. 143; p. 1281.
- Sand, &c., Disposing of tailing-. J. F. Jackson. No. 918,054; Apr. 13; Sp. p. 2227; Gaz. vol. 141; p. 400.
- Sand-drier. C. S. French. No. 933,898; Sept. 14; Sp. p. 1908; Gaz. vol. 146; p. 315.
- Sand-mold flask. J. D. Millar. No. 939,848; Nov. 9; Sp. p. 3074; Gaz. vol. 148; p. 507.
- Sand-molding match-plate. J. Lewis, W. A. Tenhagen, and C. S. Reed. No. 937,704; Oct. 19; Sp. p. 4387; Gaz. vol. 147; p. 745.
- Sand-ramming machine. H. P. Macdonald. No. 941,023; Nov. 23; Sp. p. 5699; Gaz. vol. 148; p. 962.
- Sand-reel. L. C. Sands. No. 938,609; Nov. 2; Sp. p. 377; Gaz. vol. 148; p. 56.
- Sand-screen. J. S. Little and T. A. Jones. No. 937,312; Oct. 19; Sp. p. 3558; Gaz. vol. 147; p. 615.
- Sander, Cylindrical. O. H. Hayward. No. 944,431; Dec. 28; Sp. p. 5147; Gaz. vol. 149; p. 903.
- Sander for rolling-stock. W. H. Quin. No. 929,877; Aug. 3; Sp. p. 539; Gaz. vol. 145; p. 86.
- Sander-head. G. A. Lippincott. No. 923,865; June 8; Sp. p. 1719; Gaz. vol. 143; p. 286.
- Sander, Pneumatic. C. F. Kabisus. No. 933,991; Sept. 14; Sp. p. 2090; Gaz. vol. 146; p. 344.
- Sanding, abrading, or polishing machine. F. Schimmel. No. 941,957; Nov. 30; Sp. p. 7698; Gaz. vol. 148; p. 1297.
- Sanding device. B. C. Loring. No. 913,830; Mar. 2; Sp. p. 310; Gaz. vol. 140; p. 54.
- Sanding device. O. W. Olsson. No. 933,198; Sept. 7; Sp. p. 364; Gaz. vol. 146; p. 57.
- Sanding-machine. L. Lucas. No. 916,740; Mar. 30; Sp. p. 6237; Gaz. vol. 140; p. 1116.
- Sandpaper-wheel. W. G. Liebig. No. 922,491; May 25; Sp. p. 4922; Gaz. vol. 142; p. 877.
- Sandpapering and polishing machine. F. A. Oehm. No. 925,942; June 22; Sp. p. 5982; Gaz. vol. 143; p. 1033.
- Sandwich machine, Cracker-. H. H. Oestreich and A. J. Clark. No. 915,469; Mar. 16; Sp. p. 3732; Gaz. vol. 140; p. 648.
- Sanitary appliance. H. G. Brott. No. 912,280; Feb. 16; Sp. p. 2586; Gaz. vol. 139; p. 476.
- Sanitary closet. J. H. Davis. No. 933,830; Sept. 14; Sp. p. 1769; Gaz. vol. 146; p. 293.
- Sanitary-shield packages, Machine for cutting and folding. A. Stewart. No. 934,368; Sept. 14; Sp. p. 2816; Gaz. vol. 146; p. 470.
- Sanitary trap. F. Richardson. No. 921,460; May 11; Sp. p. 2810; Gaz. vol. 142; p. 483.
- Sanitary ware. J. J. Cosgrove. No. 942,547; Dec. 7; Sp. p. 1089; Gaz. vol. 149; p. 176.
- Santalol esters. E. Sprüngers. No. 922,538; May 25; Sp. p. 5031; Gaz. vol. 142; p. 893.
- Sap-collecting device. F. B. Turner. No. 923,386; June 1; Sp. p. 639; Gaz. vol. 143; p. 92.
- Sap-receiving apron and receptacle. H. Breeden. No. 920,255; May 4; Sp. p. 339; Gaz. vol. 142; p. 54.
- Sap-spout. G. G. Chasse. No. 908,744; Jan. 5; Sp. p. 670; Gaz. vol. 138; p. 104.
- Sap-spout. W. W. Powell. No. 914,456; Mar. 9; Sp. p. 1697; Gaz. vol. 140; p. 291.
- Sap-spout. P. S. Drake. No. 930,361; Aug. 10; Sp. p. 1498; Gaz. vol. 145; p. 272.
- Sapphires and other precious stones, Machine for cupping. J. L. Wennstrom. No. 942,425; Dec. 7; Sp. p. 816; Gaz. vol. 149; p. 133.
- Sarcophagi, Mold for making. G. W. Brown. No. 943,860; Dec. 21; Sp. p. 3925; Gaz. vol. 149; p. 683.
- Sardine-tins and the like, Key for removing lids from. W. A. Read and H. J. Miles. No. 943,459; Dec. 14; Sp. p. 3064; Gaz. vol. 149; p. 518.
- Sash, Adjustable center for window-. O. A. Essig. No. 920,445; May 4; Sp. p. 721; Gaz. vol. 142; p. 115.
- Sash and door check, Combined. G. F. Ehemann. No. 943,401; Dec. 14; Sp. p. 2933; Gaz. vol. 149; p. 494.
- Sash and transom center, Automatic. F. E. Tapling. No. 931,810; Aug. 24; Sp. p. 4637; Gaz. vol. 145; p. 803.
- Sash and window-locking device, Ventilating-. F. W. Hold. No. 922,901; May 25; Sp. p. 5796; Gaz. vol. 142; p. 1011.
- Sash-balance. C. M. Smith. No. 914,319; Mar. 2; Sp. p. 1418; Gaz. vol. 140; p. 219.
- Sash-balance. R. T. Axe. No. 915,405; Mar. 16; Sp. p. 3606; Gaz. vol. 140; p. 628.
- Sash-balance. A. F. Wahlberg. No. 929,805; Aug. 3; Sp. p. 376; Gaz. vol. 145; p. 62.
- Sash-balance. C. H. Craig. No. 931,007; Aug. 10; Sp. p. 2889; Gaz. vol. 145; p. 486.
- Sash-balance. E. Vanderstegen. No. 937,395; Oct. 19; Sp. p. 3752; Gaz. vol. 147; p. 642.
- Sash-balance. F. La Grotta. No. 937,703; Oct. 19; Sp. p. 4386; Gaz. vol. 147; p. 744.
- Sash-balance, Adjustable. E. M. Erb. No. 928,644; July 20; Sp. p. 4047; Gaz. vol. 144; p. 705.
- Sash balance and lock. F. D. Antho. No. 914,692; Mar. 9; Sp. p. 2191; Gaz. vol. 140; p. 368.
- Sash balance, Window-. W. B. and E. M. Greener and D. Cox. No. 943,014; Dec. 14; Sp. p. 2127; Gaz. vol. 149; p. 364.
- Sash-bar construction for skylights in greenhouses. J. F. M. Farquhar. No. 939,592; Nov. 9; Sp. p. 2547; Gaz. vol. 148; p. 418.
- Sash-bower. A. Schroeder. No. 933,587; Sept. 7; Sp. p. 1275; Gaz. vol. 146; p. 189.

*Alphabetical list of inventions—Continued.*

- Sash-chain guide. U. G. McQueen. No. 912,401; Feb. 16; Sp. p. 2851; Gaz. vol. 139; p. 517.  
 Sash-cord fastener. H. M. Hardy. No. 923,168; June 1; Sp. p. 103; Gaz. vol. 143; p. 17.  
 Sash-cord fastener. B. Sheinberg. No. 937,553; Oct. 19; Sp. p. 4098; Gaz. vol. 147; p. 697.  
 Sash-cord holder. F. A. Saunders. No. 918,772; Apr. 20; Sp. p. 3764; Gaz. vol. 141; p. 667.  
 Sash-cord holder. J. M. Downham. No. 933,166; Sept. 7; Sp. p. 274; Gaz. vol. 146; p. 46.  
 Sash-cord socket. F. Degiorgis. No. 919,831; Apr. 27; Sp. p. 6177; Gaz. vol. 141; p. 1053.  
 Sash crossing-bar joint. A. Windeknecht. No. 920,707; May 4; Sp. p. 1267; Gaz. vol. 142; p. 202.  
 Sash-fastener. P. Mulrooney. No. 910,709; Jan. 26; Sp. p. 4662; Gaz. vol. 138; p. 847.  
 Sash-fastener. J. W. Rykard. No. 911,076; Feb. 2; Sp. p. 107; Gaz. vol. 139; p. 20.  
 Sash-fastener. E. L. Thompson. No. 912,631; Feb. 16; Sp. p. 3328; Gaz. vol. 139; p. 596.  
 Sash-fastener. V. A. Kemper. No. 913,395; Feb. 23; Sp. p. 4885; Gaz. vol. 139; p. 875.  
 Sash-fastener. N. A. Buckingham. No. 914,016; Mar. 2; Sp. p. 787; Gaz. vol. 140; p. 121.  
 Sash-fastener. N. Marschall. No. 914,853; Mar. 9; Sp. p. 2523; Gaz. vol. 140; p. 421.  
 Sash-fastener. C. J. Holzer. No. 915,437; Mar. 16; Sp. p. 3669; Gaz. vol. 140; p. 638.  
 Sash-fastener. C. M. Fowler. No. 916,137; Mar. 23; Sp. p. 5057; Gaz. vol. 140; p. 896.  
 Sash-fastener. C. E. Tayntor. No. 917,379; Apr. 6; Sp. p. 855; Gaz. vol. 141; p. 146.  
 Sash-fastener. W. C. Robinson. No. 918,090; Apr. 13; Sp. p. 2301; Gaz. vol. 141; p. 413.  
 Sash-fastener. F. R. Kratzenberg. No. 924,474; June 8; Sp. p. 2963; Gaz. vol. 143; p. 485.  
 Sash-fastener. F. L. Naylor. No. 924,814; June 15; Sp. p. 3696; Gaz. vol. 143; p. 633.  
 Sash-fastener. F. F. Pinnow. No. 925,222; June 15; Sp. p. 4523; Gaz. vol. 143; p. 772.  
 Sash-fastener. C. C. Harlan. No. 927,967; July 13; Sp. p. 2642; Gaz. vol. 144; p. 449.  
 Sash-fastener. R. Henry. No. 930,598; Aug. 10; Sp. p. 2010; Gaz. vol. 145; p. 352.  
 Sash-fastener. C. Singer. No. 934,765; Sept. 21; Sp. p. 3594; Gaz. vol. 146; p. 627.  
 Sash-fastener. H. B. Sutch. No. 935,131; Sept. 28; Sp. p. 4350; Gaz. vol. 146; p. 776.  
 Sash-fastener. G. D. Wheelock. No. 937,348; Oct. 19; Sp. p. 3643; Gaz. vol. 147; p. 627.  
 Sash-fastener. C. A. Hunt. No. 938,584; Nov. 2; Sp. p. 331; Gaz. vol. 148; p. 49.  
 Sash-fastener. J. A. Dillow. No. 943,301; Dec. 14; Sp. p. 2730; Gaz. vol. 149; p. 461.  
 Sash-fastener. G. H. Crease-Williams. No. 944,542; Dec. 28; Sp. p. 5422; Gaz. vol. 149; p. 942.  
 Sash fastener and holder. C. J. Platzler. No. 935,165; Sept. 28; Sp. p. 4408; Gaz. vol. 146; p. 786.  
 Sash fastener, Vehicle. E. R. Mitchell. No. 935,389; Sept. 28; Sp. p. 4856; Gaz. vol. 146; p. 858.  
 Sash fastener, Window-. M. Rodney. No. 916,956; Mar. 30; Sp. p. 6664; Gaz. vol. 140; p. 1187.  
 Sash fastener, Window-. D. S. Reinhart. No. 926,077; June 22; Sp. p. 6257; Gaz. vol. 143; p. 1078.  
 Sash fastening, Window-. P. H. McGrath. No. 909,318; Jan. 12; Sp. p. 1811; Gaz. vol. 138; p. 324.  
 Sash for hotbeds, &c. W. S. Bodley. No. 909,361; Jan. 12; Sp. p. 1883; Gaz. vol. 138; p. 337.  
 Sash hanger, Storm-. H. P. Benton. No. 930,453; Aug. 10; Sp. p. 1667; Gaz. vol. 145; p. 302.  
 Sash, &c., hinge, Storm-. J. G. Ralph. No. 913,429; Feb. 23; Sp. p. 4952; Gaz. vol. 139; p. 886.  
 Sash-holder. A. H. Mix. No. 911,515; Feb. 2; Sp. p. 933; Gaz. vol. 139; p. 163.  
 Sash-holder. G. A. Dowling. No. 912,653; Feb. 16; Sp. p. 3357; Gaz. vol. 139; p. 603.  
 Sash-holder. J. C. Maguire. No. 915,779; Mar. 23; Sp. p. 4402; Gaz. vol. 140; p. 781.  
 Sash-holder. T. H. Wilson. No. 917,827; Apr. 13; Sp. p. 1740; Gaz. vol. 141; p. 320.  
 Sash-holder. J. W. Wooley. No. 925,974; June 22; Sp. p. 6041; Gaz. vol. 143; p. 1044.  
 Sash-holder. B. F. Thompson. No. 929,729; Aug. 3; Sp. p. 191; Gaz. vol. 145; p. 34.  
 Sash-holder. J. N. Hilton. No. 939,500; Nov. 9; Sp. p. 2332; Gaz. vol. 148; p. 387.  
 Sash holder and lock, Combined. J. F. Beatty. No. 930,490; Aug. 10; Sp. p. 1993; Gaz. vol. 145; p. 349.  
 Sash holder and lock. T. Kephart. No. 939,709; Nov. 9; Sp. p. 2781; Gaz. vol. 148; p. 459.  
 Sash holder and lock. K. F. Deskins. No. 942,716; Dec. 7; Sp. p. 1416; Gaz. vol. 149; p. 232.  
 Sash-holder, Gravity. S. D. and L. E. Case. No. 910,113; Jan. 19; Sp. p. 3377; Gaz. vol. 138; p. 621.  
 Sash-holding device. O. M. Edwards. No. 942,720; Dec. 7; Sp. p. 1428; Gaz. vol. 149; p. 233.  
 Sash-holding device, Storm-. W. R. Hallam. No. 933,555; Sept. 7; Sp. p. 1219; Gaz. vol. 146; p. 179.  
 Sash-holding means, Window-. W. S. Wright. No. 911,690; Feb. 9; Sp. p. 1332; Gaz. vol. 139; p. 248.  
 Sash lift and lock, Combined window-. W. J. Hills. No. 917,430; Apr. 6; Sp. p. 941; Gaz. vol. 141; p. 164.  
 Sash-lifter. R. Corbin. No. 931,388; Aug. 17; Sp. p. 3746; Gaz. vol. 145; p. 646.  
 Sash-lifter and ventilator. A. Rosenberg. No. 930,618; Aug. 10; Sp. p. 2049; Gaz. vol. 145; p. 359.  
 Sash-lock. G. Jayme. No. 908,996; Jan. 5; Sp. p. 1163; Gaz. vol. 138; p. 185.  
 Sash-lock. H. K. Hillon. No. 909,901; Jan. 19; Sp. p. 2971; Gaz. vol. 138; p. 550.  
 Sash-lock. H. H. Akers. No. 910,482; Jan. 26; Sp. p. 4209; Gaz. vol. 138; p. 775.  
 Sash-lock. W. E. Petrie. No. 910,850; Jan. 26; Sp. p. 4942; Gaz. vol. 138; p. 892.  
 Sash-lock. C. L. Gano. No. 911,004; Jan. 26; Sp. p. 5232; Gaz. vol. 138; p. 942.  
 Sash-lock. J. C. Schweida and W. Kleinheinz. No. 913,239; Feb. 23; Sp. p. 4579; Gaz. vol. 139; p. 822.  
 Sash-lock. S. J. Newhart. No. 914,065; Mar. 2; Sp. p. 881; Gaz. vol. 140; p. 137.  
 Sash-lock. C. E. Hennies. No. 914,410; Mar. 9; Sp. p. 1613; Gaz. vol. 140; p. 275.  
 Sash-lock. W. F. Webber. No. 915,001; Mar. 9; Sp. p. 2767; Gaz. vol. 140; p. 467.  
 Sash-lock. L. M. Greeno. No. 915,593; Mar. 16; Sp. p. 3996; Gaz. vol. 140; p. 690.  
 Sash-lock. G. Hilpert. No. 915,600; Mar. 16; Sp. p. 4005; Gaz. vol. 140; p. 692.  
 Sash-lock. B. Schnitzler. No. 916,203; Mar. 23; Sp. p. 5179; Gaz. vol. 140; p. 917.  
 Sash-lock. H. W. Covert. No. 916,274; Mar. 23; Sp. p. 5309; Gaz. vol. 140; p. 940.  
 Sash-lock. L. R. Eddy. No. 917,567; Apr. 6; Sp. p. 1183; Gaz. vol. 141; p. 207.  
 Sash-lock. R. T. Jordan. No. 920,875; May 4; Sp. p. 1605; Gaz. vol. 142; p. 256.  
 Sash-lock. J. C. Luden. No. 925,644; June 22; Sp. p. 5344; Gaz. vol. 143; p. 936.  
 Sash-lock. J. P. Cassidy. No. 926,173; June 29; Sp. p. 6472; Gaz. vol. 143; p. 1146.  
 Sash-lock. M. W. Griswold. No. 926,482; June 29; Sp. p. 7067; Gaz. vol. 143; p. 1246.  
 Sash-lock. F. H. Wooley. No. 928,014; July 13; Sp. p. 2722; Gaz. vol. 144; p. 464.  
 Sash-lock. A. A. Solaway. No. 928,339; July 20; Sp. p. 3436; Gaz. vol. 144; p. 605.  
 Sash-lock. R. Taube. No. 928,408; July 20; Sp. p. 3558; Gaz. vol. 144; p. 629.  
 Sash-lock. L. H. Grau. No. 929,419; July 27; Sp. p. 5642; Gaz. vol. 144; p. 990.  
 Sash-lock. J. L. Grether. No. 931,194; Aug. 17; Sp. p. 3317; Gaz. vol. 145; p. 577.  
 Sash-lock. E. D. Farmer and H. B. Church. No. 936,616; Oct. 12; Sp. p. 2149; Gaz. vol. 147; p. 336.  
 Sash-lock. H. G. Voight. No. 937,197; Oct. 19; Sp. p. 3321; Gaz. vol. 147; p. 577.  
 Sash-lock. J. C. Deggin. No. 939,480; Nov. 9; Sp. p. 2300; Gaz. vol. 148; p. 381.  
 Sash-lock. H. Neble. No. 939,854; Nov. 9; Sp. p. 3086; Gaz. vol. 148; p. 510.  
 Sash-lock. O. Pearson and C. E. Lindquist. No. 941,038; Nov. 23; Sp. p. 5730; Gaz. vol. 148; p. 967.  
 Sash-lock. G. M. Blandford. No. 941,059; Nov. 23; Sp. p. 5770; Gaz. vol. 148; p. 974.  
 Sash-lock. F. C. Schaurer. No. 944,152; Dec. 21; Sp. p. 4555; Gaz. vol. 149; p. 781.  
 Sash-lock. P. F. Nissen. No. 944,626; Dec. 28; Sp. p. 5601; Gaz. vol. 149; p. 972.  
 Sash-lock, Adjustable ventilating. N. S. Hillyard and G. M. Booth. No. 913,291; Feb. 23; Sp. p. 4675; Gaz. vol. 139; p. 839.  
 Sash-lock and fastener, Combined. E. F. Kapus. No. 913,730; Mar. 2; Sp. p. 108; Gaz. vol. 140; p. 19.  
 Sash-lock, Automatic. E. Heid. No. 922,894; May 25; Sp. p. 5785; Gaz. vol. 142; p. 1009.  
 Sash-lock, Automatic safety. T. J. Gibson. No. 909,783; Jan. 12; Sp. p. 2711; Gaz. vol. 138; p. 479.  
 Sash lock, Automatic window-. C. E. Poteet. No. 929,244; July 27; Sp. p. 5257; Gaz. vol. 144; p. 931.  
 Sash-lock, Duplex. W. Lipps. No. 909,432; Jan. 12; Sp. p. 2022; Gaz. vol. 138; p. 360.  
 Sash-lock for fireproof windows, Automatic. O. A. Essig. No. 920,444; May 4; Sp. p. 719; Gaz. vol. 142; p. 114.  
 Sash-lock, Gravity. F. Bogenberger. No. 913,096; Feb. 23; Sp. p. 4273; Gaz. vol. 139; p. 774.  
 Sash-lock, Gravity. F. Bogenberger. No. 934,655; Sept. 21; Sp. p. 3392; Gaz. vol. 146; p. 591.  
 Sash lock or fastener. W. M. Shaw. No. 925,042; June 15; Sp. p. 4177; Gaz. vol. 143; p. 710.  
 Sash lock or holder. J. B. Foley. No. 908,987; Jan. 5; Sp. p. 1151; Gaz. vol. 138; p. 182.  
 Sash lock, Window-. D. Reinmiller. No. 914,750; Mar. 9; Sp. p. 2318; Gaz. vol. 140; p. 388.  
 Sash lock, Window-. J. O. Hunt. No. 916,446; Mar. 30; Sp. p. 5660; Gaz. vol. 140; p. 1024.  
 Sash lock, Window-. H. L. Corson. No. 922,670; May 25; Sp. p. 5297; Gaz. vol. 142; p. 936.  
 Sash lock, Window-. F. D. Raforth. No. 925,650; June 22; Sp. p. 5351; Gaz. vol. 143; p. 937.  
 Sash lock, Window-. A. C. J. Roy. No. 926,899; July 6; Sp. p. 399; Gaz. vol. 144; p. 65.  
 Sash-locking device. J. E. Gibbs. No. 922,882; May 25; Sp. p. 5766; Gaz. vol. 142; p. 1005.  
 Sash, Means for attaching glass to window-. G. B. Kohler. No. 919,887; Apr. 27; Sp. p. 6280; Gaz. vol. 141; p. 1072.



*Alphabetical list of inventions—Continued.*

- Sash meeting-rail. R. J. Davis. No. 916,115; Mar. 23; Sp. p. 5020; Gaz. vol. 140; p. 889.
- Sash, Metal. H. H. Forsyth. No. 939,407; Nov. 9; Sp. p. 2146; Gaz. vol. 148; p. 356.
- Sash, Metal window-. F. E. Duering. No. 941,629; Nov. 30; Sp. p. 6996; Gaz. vol. 148; p. 1183.
- Sash operating and locking mechanism. R. H. Jones. No. 928,767; July 20; Sp. p. 4280; Gaz. vol. 144; p. 746.
- Sash-operating device. L. Barbieri. No. 912,779; Feb. 16; Sp. p. 3682; Gaz. vol. 139; p. 647.
- Sash-operating device. L. Barbieri. No. 912,780; Feb. 16; Sp. p. 3684; Gaz. vol. 139; p. 648.
- Sash-operating mechanism. W. Sefton. No. 909,463; Jan. 12; Sp. p. 2083; Gaz. vol. 138; p. 370.
- Sash-operating mechanism. R. B. Browne. No. 926,094; June 29; Sp. p. 6298; Gaz. vol. 143; p. 1119.
- Sash-operating mechanism. S. E. Cibulas. No. 941,343; Nov. 23; Sp. p. 6368; Gaz. vol. 148; p. 1066.
- Sash or screen hanger, Storm. D. T. Peters and A. H. Grant. No. 922,625; May 25; Sp. p. 5207; Gaz. vol. 142; p. 922.
- Sash or screen hanger, Storm. D. T. Peters and A. H. Grant. No. 922,720; May 25; Sp. p. 5401; Gaz. vol. 142; p. 952.
- Sash, Reversible window-. C. M. Smith. No. 909,243; Jan. 12; Sp. p. 1663; Gaz. vol. 138; p. 299.
- Sash, Sliding and swinging. N. P. Sjobring. No. 911,454; Feb. 2; Sp. p. 819; Gaz. vol. 139; p. 143.
- Sash support, Window-. N. H. Conger. No. 928,362; July 20; Sp. p. 3475; Gaz. vol. 144; p. 613.
- Sash supporter and lock. W. W. Sweetland. No. 924,853; June 15; Sp. p. 3776; Gaz. vol. 143; p. 646.
- Sash, Swinging sliding window-. L. Boford. No. 918,270; Apr. 13; Sp. p. 2664; Gaz. vol. 141; p. 472.
- Sash tightener, Window-. P. Forestale. No. 933,425; Sept. 7; Sp. p. 874; Gaz. vol. 146; p. 136.
- Sash ventilator, Window-. A. S. Meek. No. 910,934; Jan. 26; Sp. p. 5100; Gaz. vol. 138; p. 919.
- Sash-weight. P. G. Wiegert. No. 911,352; Feb. 2; Sp. p. 647; Gaz. vol. 139; p. 110.
- Sash-weight. C. M. Conklin. No. 913,470; Feb. 23; Sp. p. 5038; Gaz. vol. 139; p. 900.
- Sash-weight. G. H. McKinley and S. Steenburgh. No. 932,995; Aug. 31; Sp. p. 7077; Gaz. vol. 145; p. 1217.
- Sash-weight-molding apparatus. B. H. Cooper and T. O. Henry. No. 921,640; May 11; Sp. p. 3185; Gaz. vol. 142; p. 545.
- Sash-weight, Sectional. W. S. Sanborn. No. 915,223; Mar. 16; Sp. p. 3251; Gaz. vol. 140; p. 568.
- Sash, Window-. C. S. Smallwood. No. 911,619; Feb. 9; Sp. p. 1181; Gaz. vol. 139; p. 224.
- Sash, Window-. J. Thenser. No. 914,203; Mar. 2; Sp. p. 1172; Gaz. vol. 140; p. 184.
- Sash, Window-. F. C. Borgmeyer. No. 918,271; Apr. 13; Sp. p. 2666; Gaz. vol. 141; p. 472.
- Sash, Window-. H. L. Siel. No. 929,170; July 27; Sp. p. 5111; Gaz. vol. 144; p. 908.
- Sash, Window-. M. Gabriel. No. 929,579; July 27; Sp. p. 5924; Gaz. vol. 144; p. 1041.
- Sash, Window-. W. W. Watson. No. 943,801; Dec. 21; Sp. p. 3809; Gaz. vol. 149; p. 662.
- Sashes and doors, Water-excluding bar for casement-. L. H. Peters. No. 928,065; July 13; Sp. p. 2829; Gaz. vol. 144; p. 482.
- Sashes, Antirattle for window-. P. C. Wiest. No. 934,253; Sept. 14; Sp. p. 2614; Gaz. vol. 146; p. 432.
- Saucerpan-dish. L. S. Hine. No. 922,281; May 18; Sp. p. 4497; Gaz. vol. 142; p. 780.
- Sausage-machine. J. Wundrach. No. 931,363; Aug. 17; Sp. p. 3685; Gaz. vol. 145; p. 637.
- Sausage-stuffing machine. D. Brightbill. No. 932,372; Aug. 24; Sp. p. 5787; Gaz. vol. 145; p. 988.
- Sausage twisting and linking machine. W. J. Collins. No. 938,215; Oct. 26; Sp. p. 5476; Gaz. vol. 147; p. 936.
- Savings, Means for encouraging and facilitating the accumulation of. C. F. Hess. No. 933,754; Sept. 14; Sp. p. 1629; Gaz. vol. 146; p. 268.
- Saw. A. E. Eastwick. No. 917,565; Apr. 6; Sp. p. 1179; Gaz. vol. 141; p. 206.
- Saw. G. A. Zimmermann. No. 921,330; May 11; Sp. p. 2541; Gaz. vol. 142; p. 440.
- Saw. R. Hoe, Jr. No. 941,455; Nov. 30; Sp. p. 6647; Gaz. vol. 148; p. 1126.
- Saw. A. P. Fridstrom. No. 941,705; Nov. 30; Sp. p. 7168; Gaz. vol. 148; p. 1209.
- Saw and like machines, Feed device for. H. J. Hick. No. 940,016; Nov. 16; Sp. p. 3445; Gaz. vol. 148; p. 595.
- Saw attachment. J. I. Matthews. No. 939,051; Nov. 2; Sp. p. 1288; Gaz. vol. 148; p. 207.
- Saw, Automatic wood-. T. P. Pye. No. 909,454; Jan. 12; Sp. p. 2063; Gaz. vol. 138; p. 367.
- Saw, Band-. A. Anderson. No. 936,596; Oct. 12; Sp. p. 2097; Gaz. vol. 147; p. 349.
- Saw-blade. R. E. Martin. No. 942,920; Dec. 14; Sp. p. 1901; Gaz. vol. 149; p. 332.
- Saw-blade lubricator. G. E. Haszinger and S. J. Ronan. No. 930,960; Aug. 10; Sp. p. 2767; Gaz. vol. 145; p. 470.
- Saw-blades and means for attachment of the saw-blade thereto, Cap-plate for cylindrical. G. N. Williams, Jr., and J. Wegner. No. 922,650; May 25; Sp. p. 5259; Gaz. vol. 142; p. 929.
- Saw-blades and the attachment of the saw-blade thereto, Cap-plate for cylindrical. G. N. Williams, Jr., and J. Wegner. No. 922,649; May 25; Sp. p. 5255; Gaz. vol. 142; p. 929.
- Saw-blades or other tools, Forming the clasps of the interlocking portions of extensible frames for. A. M. Remington. No. 928,217; July 13; Sp. p. 3129; Gaz. vol. 144; p. 533.
- Saw, Buck-. H. L. Bornman. No. 934,499; Sept. 21; Sp. p. 3083; Gaz. vol. 146; p. 537.
- Saw, Butcher's. T. A. Tubbs. No. 909,716; Jan. 12; Sp. p. 2594; Gaz. vol. 138; p. 458.
- Saw-carriage. P. J. Murphy. No. 940,470; Nov. 16; Sp. p. 4502; Gaz. vol. 148; p. 753.
- Saw carrier, Crosscut-. W. M. Ruggles. No. 915,384; Mar. 16; Sp. p. 3568; Gaz. vol. 140; p. 621.
- Saw-case. W. Stevenson. No. 925,244; June 15; Sp. p. 4551; Gaz. vol. 143; p. 778.
- Saw-clamp. H. M. Wood. No. 932,224; Aug. 24; Sp. p. 5520; Gaz. vol. 145; p. 940.
- Saw, Crosscut-. E. J. Barnes. No. 913,092; Feb. 23; Sp. p. 4265; Gaz. vol. 139; p. 773.
- Saw, Drag-. D. J. Shea. No. 919,389; Apr. 27; Sp. p. 5208; Gaz. vol. 141; p. 903.
- Saw, Drag-. S. Feller. No. 935,197; Sept. 28; Sp. p. 4473; Gaz. vol. 146; p. 795.
- Saw, Drag-. F. Hornquist. No. 940,876; Nov. 23; Sp. p. 5354; Gaz. vol. 148; p. 912.
- Saw-feeder. L. M. Endres. No. 933,365; Sept. 14; Sp. p. 2042; Gaz. vol. 146; p. 336.
- Saw-feeding mechanism. H. B. Ross, B. D. Stevens, and J. F. Gates. No. 931,223; Aug. 17; Sp. p. 3382; Gaz. vol. 145; p. 587.
- Saw filing and setting machine, Band-. W. Stevnskopf. No. 934,967; Sept. 21; Sp. p. 4001; Gaz. vol. 146; p. 695.
- Saw-filing clamp. G. McKenzie. No. 940,045; Nov. 16; Sp. p. 3538; Gaz. vol. 148; p. 605.
- Saw-filing device. R. E. Blankenburg. No. 924,134; June 8; Sp. p. 2227; Gaz. vol. 143; p. 371.
- Saw-filing device. E. F. Edwards. No. 934,510; Sept. 21; Sp. p. 3099; Gaz. vol. 146; p. 540.
- Saw-filing implement. J. H. Fritz. No. 913,818; Mar. 2; Sp. p. 290; Gaz. vol. 140; p. 50.
- Saw-filing machine. G. K. Kawahara. No. 917,611; Apr. 6; Sp. p. 1265; Gaz. vol. 141; p. 223.
- Saw-filing machine. F. A. Blain. No. 919,814; Apr. 27; Sp. p. 6143; Gaz. vol. 141; p. 1048.
- Saw-filing machine. W. J. Holmes. No. 923,266; June 1; Sp. p. 319; Gaz. vol. 143; p. 50.
- Saw-filing machine. E. D. Keeter. No. 935,912; Oct. 5; Sp. p. 669; Gaz. vol. 147; p. 98.
- Saw-frame. H. J. Leland. No. 925,112; June 15; Sp. p. 4305; Gaz. vol. 143; p. 733.
- Saw-frame, Flexible. C. Kusch. No. 931,435; Aug. 17; Sp. p. 3838; Gaz. vol. 145; p. 661.
- Saw-frame, Folding. A. Luzzatti. No. 923,543; June 1; Sp. p. 948; Gaz. vol. 143; p. 147.
- Saw-gage. E. W. Habermas. No. 926,652; June 29; Sp. p. 7387; Gaz. vol. 143; p. 1303.
- Saw gage, Crosscut-. W. M. Elwood. No. 917,425; Apr. 6; Sp. p. 936; Gaz. vol. 141; p. 163.
- Saw gage, Crosscut-. E. S. Ward and J. A. Hamilton. No. 943,760; Dec. 21; Sp. p. 3725; Gaz. vol. 149; p. 648.
- Saw, Gang-. J. W. Bell. No. 931,912; Aug. 24; Sp. p. 4875; Gaz. vol. 145; p. 835.
- Saw-grinder attachment. G. W. Phippen. No. 922,504; May 25; Sp. p. 4942; Gaz. vol. 142; p. 881.
- Saw-grinding machine. A. L. Lawing. No. 931,777; Aug. 24; Sp. p. 4563; Gaz. vol. 145; p. 792.
- Saw-guide. J. C. Rennie. No. 930,228; Aug. 3; Sp. p. 1240; Gaz. vol. 145; p. 205.
- Saw-guide. C. E. Sees. No. 944,217; Dec. 21; Sp. p. 4670; Gaz. vol. 149; p. 800.
- Saw guide, Adjustable band-. F. T. McDonough. No. 924,622; June 8; Sp. p. 3283; Gaz. vol. 143; p. 535.
- Saw guide, Band-. H. L. Depoy. No. 934,893; Sept. 21; Sp. p. 3851; Gaz. vol. 146; p. 669.
- Saw-guide for ax-handles. C. D. Bryant. No. 938,367; Oct. 26; Sp. p. 5820; Gaz. vol. 147; p. 987.
- Saw-gummer. J. B. Bristow. No. 932,677; Aug. 31; Sp. p. 6465; Gaz. vol. 145; p. 1115.
- Saw gummer and sharpener. J. H. Loughridge. No. 909,916; Jan. 19; Sp. p. 2998; Gaz. vol. 138; p. 555.
- Saw, Hack-. G. H. Couper. No. 925,684; June 22; Sp. p. 5409; Gaz. vol. 143; p. 647.
- Saw, Hand-. L. Balchior. No. 920,414; May 4; Sp. p. 661; Gaz. vol. 142; p. 105.
- Saw, Hand-. E. Wicke and F. Dark. No. 933,867; Sept. 14; Sp. p. 1846; Gaz. vol. 146; p. 305.
- Saw, Hand-. K. Ziegler. No. 938,105; Oct. 26; Sp. p. 5234; Gaz. vol. 147; p. 898.
- Saw-handle. H. M. Rounds. No. 908,501; Jan. 5; Sp. p. 143; Gaz. vol. 138; p. 25.
- Saw-handle. F. L. Blomquist. No. 913,462; Feb. 23; Sp. p. 5024; Gaz. vol. 139; p. 897.
- Saw-handle. J. P. Jensen. No. 917,871; Apr. 13; Sp. p. 1831; Gaz. vol. 141; p. 335.
- Saw-handle. E. T. Kirkpatrick. No. 921,121; May 11; Sp. p. 2094; Gaz. vol. 142; p. 369.
- Saw-handle. R. D. Bower. No. 930,035; Aug. 3; Sp. p. 865; Gaz. vol. 145; p. 139.
- Saw-handle. J. I. Pauley. No. 935,810; Oct. 5; Sp. p. 455; Gaz. vol. 147; p. 64.
- Saw-handle. W. W. Taylor. No. 936,491; Oct. 12; Sp. p. 1891; Gaz. vol. 147; p. 313.
- Saw-handle, Adjustable and detachable. R. E. Martin. No. 938,680; Nov. 2; Sp. p. 522; Gaz. vol. 148; p. 80.
- Saw handle, Crosscut-. J. Kallehner. No. 936,913; Oct. 12; Sp. p. 2732; Gaz. vol. 147; p. 450.

*Alphabetical list of inventions—Continued.*

- Saw-hanger. L. D. Reece. No. 940,728; Nov. 23; Sp. p. 5068; Gaz. vol. 148; p. 865.  
 Saw, Inserted-tooth. J. A. and G. H. Aupperle. No. 912,774; Feb. 16; Sp. p. 3673; Gaz. vol. 139; p. 646.  
 Saw-jointer. J. Bohyer. No. 938,957; Nov. 2; Sp. p. 1107; Gaz. vol. 148; p. 176.  
 Saw jointer and gage. C. C. Du Bose. No. 941,981; Nov. 30; Sp. p. 7744; Gaz. vol. 148; p. 1304.  
 Saw-jointer, Pocket. E. W. Campagna. No. 931,992; Aug. 24; Sp. p. 5032; Gaz. vol. 145; p. 862.  
 Saw leveling and stretching machine. N. L. Botten. No. 913,463; Feb. 23; Sp. p. 5026; Gaz. vol. 139; p. 898.  
 Saw lubricator, Hand-. C. E. Lowe. No. 925,437; June 15; Sp. p. 4908; Gaz. vol. 143; p. 838.  
 Saw lubricator, Hand-. C. E. Lowe. No. 927,866; July 13; Sp. p. 2427; Gaz. vol. 144; p. 415.  
 Saw-machine. P. R. Kramer. No. 927,551; July 13; Sp. p. 1736; Gaz. vol. 144; p. 310.  
 Saw-machine attachment, Band-. F. M. Spayd. No. 931,894; Aug. 24; Sp. p. 4798; Gaz. vol. 145; p. 828.  
 Saw machine, Hack-. A. Gruitsch. No. 924,767; June 15; Sp. p. 3595; Gaz. vol. 143; p. 617.  
 Saw machine, Hack-. H. D. Lanfair. No. 935,665; Oct. 5; Sp. p. 88; Gaz. vol. 147; p. 15.  
 Saw machine, Hack-. E. S. Bradford, Jr., and M. Olson. No. 943,646; Dec. 21; Sp. p. 3508; Gaz. vol. 149; p. 610.  
 Saw machine, Power hack-. C. Rasmussen. No. 927,751; July 13; Sp. p. 2177; Gaz. vol. 144; p. 377.  
 Saw, Metal-. H. G. Miller. No. 921,723; May 18; Sp. p. 3359; Gaz. vol. 142; p. 598.  
 Saw, Metal-cut-off. P. W. Post. No. 937,544; Oct. 19; Sp. p. 4083; Gaz. vol. 147; p. 694.  
 Saw, Metal-cutting. W. H. Lucas. No. 938,158; Oct. 26; Sp. p. 5365; Gaz. vol. 147; p. 916.  
 Saw mill, Horizontal band-. H. G. Dittbenner. No. 919,556; Apr. 27; Sp. p. 5586; Gaz. vol. 141; p. 960.  
 Saw mills, Setting mechanism for twin band-. C. E. Cleveland. No. 922,855; May 25; Sp. p. 5684; Gaz. vol. 142; p. 996.  
 Saw, Motor-driven swing-. C. S. Reno and H. Kaetker. No. 932,324; Aug. 24; Sp. p. 5703; Gaz. vol. 145; p. 973.  
 Saw mounting, Gang-. A. Jones. No. 922,283; May 18; Sp. p. 4499; Gaz. vol. 142; p. 781.  
 Saw-moving machine, Band-. J. E. Hibbert. No. 932,957; Aug. 31; Sp. p. 7060; Gaz. vol. 145; p. 1214.  
 Saw, Power hack-. R. C. Berry. No. 926,802; July 6; Sp. p. 195; Gaz. vol. 144; p. 32.  
 Saw, Power hack-. C. W. Bergmann. No. 944,069; Dec. 21; Sp. p. 4375; Gaz. vol. 149; p. 754.  
 Saw resawing machine, Band-. C. E. Cleveland. No. 941,758; Nov. 30; Sp. p. 7284; Gaz. vol. 148; p. 1227.  
 Saw-set. W. W. Oberg. No. 921,150; May 10; Sp. p. 2148; Gaz. vol. 142; p. 378.  
 Saw-set. R. P. Redifer. No. 930,616; Aug. 11; Sp. p. 2046; Gaz. vol. 145; p. 358.  
 Saw-set. C. S. Shaw and J. M. Spellman. No. 937,651; Oct. 19; Sp. p. 4266; Gaz. vol. 147; p. 728.  
 Saw-set. E. Chainey. No. 944,174; Dec. 21; Sp. p. 4600; Gaz. vol. 149; p. 789.  
 Saw-set. O. R. Taylor. No. 944,391; Dec. 28; Sp. p. 5035; Gaz. vol. 149; p. 889.  
 Saw set and clamp. F. W. McLean. No. 931,076; Aug. 17; Sp. p. 3066; Gaz. vol. 145; p. 537.  
 Saw-setting machine. H. Watkins. No. 937,902; Oct. 26; Sp. p. 4797; Gaz. vol. 147; p. 829.  
 Saw-setting machine. H. Watkins. No. 937,903; Oct. 26; Sp. p. 4800; Gaz. vol. 147; p. 830.  
 Saw-setting machine. H. Watkins. No. 937,904; Oct. 26; Sp. p. 4802; Gaz. vol. 147; p. 830.  
 Saw-setting machine. A. C. Ambler. No. 942,531; Dec. 7; Sp. p. 1054; Gaz. vol. 149; p. 171.  
 Saw-setting tool. L. G. McKam. No. 936,800; Oct. 12; Sp. p. 2510; Gaz. vol. 147; p. 418.  
 Saw-setting tool. J. L'hote. No. 942,573; Dec. 7; Sp. p. 1135; Gaz. vol. 149; p. 184.  
 Saw-sharpener. T. Becker. No. 910,893; Jan. 26; Sp. p. 5029; Gaz. vol. 138; p. 906.  
 Saw-straining mechanism. C. E. Cleveland. No. 919,128; Apr. 20; Sp. p. 4481; Gaz. vol. 141; p. 782.  
 Saw-swage. R. S. Jackson. No. 940,024; Nov. 16; Sp. p. 3460; Gaz. vol. 148; p. 598.  
 Saw-swage attachment. J. P. Hedstrom. No. 909,295; Jan. 12; Sp. p. 1759; Gaz. vol. 138; p. 317.  
 Saw swaging and shaping device. T. W. Cross. No. 941,131; Nov. 23; Sp. p. 5934; Gaz. vol. 148; p. 998.  
 Saw-swaging machine. W. L. Covell. No. 934,046; Sept. 14; Sp. p. 2181; Gaz. vol. 146; p. 361.  
 Saw tension device, Band-. H. G. Dittbenner. No. 920,035; Apr. 27; Sp. p. 6569; Gaz. vol. 141; p. 1120.  
 Saw tension device, Band-. F. T. McDonough. No. 928,211; July 13; Sp. p. 3118; Gaz. vol. 144; p. 531.  
 Saw-tooth. J. W. Dunn and H. J. Randall. No. 940,518; Nov. 16; Sp. p. 4611; Gaz. vol. 148; p. 769.  
 Saw-tooth gage. A. C. Jones. No. 932,612; Aug. 31; Sp. p. 6334; Gaz. vol. 145; p. 1092.  
 Saw-tooth holder. W. B. Sanders. No. 930,235; Aug. 3; Sp. p. 1258; Gaz. vol. 145; p. 207.  
 Saw-tooth, Insertible. J. H. Miner. No. 926,675; June 29; Sp. p. 7428; Gaz. vol. 143; p. 1310.  
 Saw-tooth mold, Diamond-. W. F. Meyers. No. 932,488; Aug. 31; Sp. p. 6051; Gaz. vol. 145; p. 1050.  
 Saw-tooth-setting device. H. B. Foley and F. G. Wright. No. 944,729; Dec. 28; Sp. p. 5813; Gaz. vol. 149; p. 1006.  
 Saw-tooth-setting machine, Automatic. C. S. Tufenkjian. No. 926,785; July 6; Sp. p. 152; Gaz. vol. 144; p. 25.  
 Saw-tooth shaper, Swaged-. W. R. Anthony. No. 935,138; Sept. 28; Sp. p. 4363; Gaz. vol. 146; p. 778.  
 Saw-vise. J. Ljung. No. 918,338; Apr. 13; Sp. p. 2794; Gaz. vol. 141; p. 494.  
 Saw wheel, Band-. C. A. Putnam. No. 942,588; Dec. 7; Sp. p. 1161; Gaz. vol. 149; p. 189.  
 Saws, Double-jack swinging bracket for gang-. L. G. Johnstone. No. 925,191; June 15; Sp. p. 4459; Gaz. vol. 143; p. 761.  
 Saws, Sawdust-catching attachment for circular. D. J. Bemiller. No. 922,840; May 25; Sp. p. 5656; Gaz. vol. 142; p. 991.  
 Saws, Straight-edge for circular. B. Lafleur. No. 940,032; Nov. 16; Sp. p. 3477; Gaz. vol. 148; p. 601.  
 Saws, Tail-guide for band-. F. T. McDonough. No. 936,251; Oct. 5; Sp. p. 1338; Gaz. vol. 147; p. 206.  
 Saws, Top-jointer for band-. C. J. Brey. No. 932,752; Aug. 31; Sp. p. 6614; Gaz. vol. 145; p. 1139.  
 Sawing device. J. Weber. No. 913,078; Feb. 23; Sp. p. 4239; Gaz. vol. 139; p. 768.  
 Sawing-machine. J. J. Meyers. No. 910,562; Jan. 26; Sp. p. 4373; Gaz. vol. 138; p. 801.  
 Sawing-machine. W. S. Overlin. No. 915,210; Mar. 16; Sp. p. 3233; Gaz. vol. 140; p. 565.  
 Sawing-machine. D. I. Keough. No. 925,194; June 15; Sp. p. 4463; Gaz. vol. 143; p. 762.  
 Sawing-machine. D. A. Kennedy. No. 927,248; July 6; Sp. p. 1130; Gaz. vol. 144; p. 184.  
 Sawing-machine. S. M. Krawchenko. No. 928,135; July 13; Sp. p. 2951; Gaz. vol. 144; p. 504.  
 Sawing-machine. A. Fishor. No. 939,488; Nov. 9; Sp. p. 2313; Gaz. vol. 148; p. 383.  
 Sawing-machine. F. N. Trevor. No. 939,760; Nov. 9; Sp. p. 2910; Gaz. vol. 148; p. 478.  
 Sawing-machine, Portable. J. O'Hara. No. 910,145; Jan. 19; Sp. p. 3445; Gaz. vol. 138; p. 631.  
 Sawing-machine, Portable. N. C. Tevis. No. 915,808; Mar. 23; Sp. p. 4443; Gaz. vol. 140; p. 790.  
 Sawing-machine, Portable. C. M. Barker. No. 925,553; June 22; Sp. p. 5138; Gaz. vol. 143; p. 906.  
 Sawing-machine sand-feed. Stone. J. M. Owens, J. A. Rowe, and E. E. Mitchell. No. 912,023; Feb. 9; Sp. p. 2048; Gaz. vol. 139; p. 357.  
 Sawing-machine universal clamp, Cold-. J. J. McCarthy. No. 914,299; Mar. 2; Sp. p. 1369; Gaz. vol. 140; p. 215.  
 Sawing machine, Wood-. W. M. Lee. No. 926,265; June 29; Sp. p. 6665; Gaz. vol. 143; p. 1177.  
 Sawing machine, Wood-. T. Kimura. No. 938,151; Oct. 26; Sp. p. 5343; Gaz. vol. 147; p. 913.  
 Sawmill appliance. J. R. Hodgen. No. 918,152; Apr. 13; Sp. p. 2419; Gaz. vol. 141; p. 433.  
 Sawmill, Band-. H. G. Dittbenner. No. 936,314; Oct. 12; Sp. p. 1467; Gaz. vol. 147; p. 254.  
 Sawmill-carriage-operating mechanism. C. A. Jones. No. 939,204; Nov. 9; Sp. p. 1767; Gaz. vol. 148; p. 307.  
 Sawmill-carriages, Rotating steam-feed for. C. Shoptaw. No. 932,914; Aug. 31; Sp. p. 6921; Gaz. vol. 145; p. 1190.  
 Sawmill-dog. H. M. Lofton. No. 912,696; Feb. 16; Sp. p. 3465; Gaz. vol. 139; p. 618.  
 Sawmill-knees, Taper-movement for. T. S. Wilkin. No. 934,866; Sept. 21; Sp. p. 3801; Gaz. vol. 146; p. 659.  
 Sawmill-nigger. J. A. Gillard. No. 913,640; Feb. 23; Sp. p. 5439; Gaz. vol. 139; p. 957.  
 Sawmill, Railway-tie. E. T. Thomas. No. 933,932; Sept. 14; Sp. p. 1973; Gaz. vol. 146; p. 325.  
 Sawmill set-gear. H. R. Scheidler. No. 916,028; Mar. 23; Sp. p. 4867; Gaz. vol. 140; p. 862.  
 Sawmill set-works. H. M. Lofton. No. 915,198; Mar. 16; Sp. p. 3210; Gaz. vol. 140; p. 561.  
 Sawmill set-works. C. E. Cleveland. No. 923,408; June 1; Sp. p. 674; Gaz. vol. 143; p. 99.  
 Sawmill set-works and dog, Automatic power. N. E. Rice. No. 936,944; Oct. 12; Sp. p. 2780; Gaz. vol. 147; p. 465.  
 Sawmill set-works, Rope-driven. U. Anderson. No. 923,314; June 1; Sp. p. 476; Gaz. vol. 143; p. 68.  
 Sawmill stock-lifter. E. J. Gibson. No. 943,304; Dec. 14; Sp. p. 2735; Gaz. vol. 149; p. 462.  
 Sawmills, Log stopping and holding mechanism for. W. A. Wilkinson. No. 932,217; Aug. 24; Sp. p. 5502; Gaz. vol. 145; p. 937.  
 Scaffold. G. R. Earnest. No. 926,860; July 6; Sp. p. 672; Gaz. vol. 144; p. 53.  
 Scaffold. S. Fichler. No. 942,347; Dec. 7; Sp. p. 672; Gaz. vol. 149; p. 108.  
 Scaffold, Adjustable. B. Muller. No. 944,373; Dec. 28; Sp. p. 5019; Gaz. vol. 149; p. 883.  
 Scaffold and derrick, Adjustable. M. Bailer. No. 923,002; May 25; Sp. p. 5978; Gaz. vol. 142; p. 1043.  
 Scaffold-bracket. S. W. Shue. No. 910,591; Jan. 26; Sp. p. 4448; Gaz. vol. 138; p. 811.  
 Scaffold-bracket. W. R. Sant, O. B. Cooper, and F. P. Clack. No. 931,995; Aug. 24; Sp. p. 5038; Gaz. vol. 145; p. 863.  
 Scaffold-bracket. A. W. Guthat. No. 940,459; Nov. 16; Sp. p. 4483; Gaz. vol. 148; p. 749.  
 Scaffold, Building-. D. A. Murdoch. No. 926,013; June 22; Sp. p. 6110; Gaz. vol. 143; p. 1056.  
 Scaffold-coupling stirrup. E. Whitney. No. 930,110; Aug. 3; Sp. p. 1029; Gaz. vol. 145; p. 166.  
 Scaffold, Flying. H. Martens and W. Schulz. No. 943,486; Dec. 14; Sp. p. 3005; Gaz. vol. 149; p. 507.  
 Scaffold, Folding. F. McCarty. No. 909,012; Jan. 5; Sp. p. 1191; Gaz. vol. 138; p. 190.  
 Scaffold-hanger. D. P. Chesebro. No. 927,946; July 13; Sp. p. 2599; Gaz. vol. 144; p. 443.



*Alphabetical list of inventions—Continued.*

- Scaffold-jack. J. Schwilling. No. 915,226; Mar. 16; Sp. p. 3256; Gaz. vol. 140; p. 569.
- Scaffold or mold for erecting concrete or cement walls for buildings. C. H. Witthoefft. No. 916,083; Mar. 23; Sp. p. 4957; Gaz. vol. 140; p. 879.
- Scaffold, Painter's. W. W. Wheeler. No. 944,529; Dec. 28; Sp. p. 5389; Gaz. vol. 149; p. 938.
- Scaffold, Window-. C. H. Gersch. No. 917,046; Apr. 6; Sp. p. 172; Gaz. vol. 141; p. 33.
- Scaffold, Window-. A. E. Bond. No. 933,740; Sept. 14; Sp. p. 1607; Gaz. vol. 146; p. 264.
- Scaffolding. G. E. Humphries. (Reissue.) No. 13,036; Nov. 9; Sp. p. 3322; Gaz. vol. 148; p. 548.
- Scaffolding. G. E. Humphries. (Reissue.) No. 13,037; Nov. 9; Sp. p. 3325; Gaz. vol. 148; p. 549.
- Scaffolding. D. and L. Barcsal. No. 944,406; Dec. 28; Sp. p. 5100; Gaz. vol. 149; p. 895.
- Scale. G. W. Cope. No. 913,202; Feb. 23; Sp. p. 4495; Gaz. vol. 139; p. 810.
- Scale. M. H. Reed. No. 917,148; Apr. 6; Sp. p. 389; Gaz. vol. 141; p. 68.
- Scale. H. Aue. No. 920,004; Apr. 27; Sp. p. 6500; Gaz. vol. 141; p. 1110.
- Scale. W. R. Mittendorf. No. 921,436; May 11; Sp. p. 2769; Gaz. vol. 142; p. 476.
- Scale. O. O. Ozias. No. 921,881; May 18; Sp. p. 3687; Gaz. vol. 142; p. 650.
- Scale. L. Jaenichen. No. 923,530; June 1; Sp. p. 926; Gaz. vol. 143; p. 143.
- Scale. R. McFarlane. No. 932,050; Aug. 24; Sp. p. 5171; Gaz. vol. 145; p. 882.
- Scale. A. G. Worthington. No. 935,571; Sept. 28; Sp. p. 5241; Gaz. vol. 146; p. 919.
- Scale. F. H. Buckingham. No. 939,213; Nov. 9; Sp. p. 1642; Gaz. vol. 148; p. 290.
- Scale. S. C. Cooper. No. 939,809; Nov. 9; Sp. p. 3005; Gaz. vol. 148; p. 495.
- Scale. J. L. Pipe. No. 939,857; Nov. 9; Sp. p. 3091; Gaz. vol. 148; p. 511.
- Scale. W. F. Stimpson. No. 939,875; Nov. 9; Sp. p. 3130; Gaz. vol. 148; p. 516.
- Scale. C. M. Sturgis. No. 941,208; Nov. 23; Sp. p. 6106; Gaz. vol. 148; p. 1024.
- Scale. W. F. Stimpson. No. 941,590; Nov. 30; Sp. p. 6913; Gaz. vol. 148; p. 1170.
- Scale. D. C. Stauffer. No. 942,945; Dec. 14; Sp. p. 1960; Gaz. vol. 149; p. 340.
- Scale attachment, Weighing-. S. M. Boling. No. 924,962; June 15; Sp. p. 4001; Gaz. vol. 143; p. 683.
- Scale, Automatic. E. W. Wray. No. 910,627; Jan. 26; Sp. p. 4513; Gaz. vol. 138; p. 822.
- Scale, Automatic. A. H. Austin. No. 917,519; Apr. 6; Sp. p. 1098; Gaz. vol. 141; p. 192.
- Scale, Automatic weighing-. J. J. Linden and L. A. Rockwell. No. 913,298; Feb. 23; Sp. p. 4685; Gaz. vol. 139; p. 841.
- Scale, Automatic weighing-. N. Nilson. No. 915,468; Mar. 16; Sp. p. 3729; Gaz. vol. 140; p. 648.
- Scale, Automatic weighing-. M. E. Reisert. No. 941,588; Nov. 30; Sp. p. 6909; Gaz. vol. 148; p. 1169.
- Scale-bar, Tabulating. M. C. Mosher. No. 909,313; Jan. 12; Sp. p. 1803; Gaz. vol. 138; p. 323.
- Scale beam and poise. J. A. Fleming. No. 920,942; May 11; Sp. p. 1739; Gaz. vol. 142; p. 309.
- Scale-beam attachment. S. M. Boling. No. 924,960; June 15; Sp. p. 3994; Gaz. vol. 143; p. 682.
- Scale-beam attachment. S. M. Boling. No. 924,961; June 15; Sp. p. 3997; Gaz. vol. 143; p. 683.
- Scale, Calculating-. R. C. Smith. No. 920,497; May 4; Sp. p. 807; Gaz. vol. 142; p. 131.
- Scale-car. F. K. Hoover and A. J. Mason. No. 933,452; Sept. 7; Sp. p. 934; Gaz. vol. 146; p. 143.
- Scale, Coin-controlled beam-. W. H. Jordan. No. 931,429; Aug. 17; Sp. p. 3817; Gaz. vol. 145; p. 659.
- Scale compensating-rod connection. J. L. Good. No. 910,056; Jan. 19; Sp. p. 3271; Gaz. vol. 138; p. 603.
- Scale, Computing. J. S. Bradley. No. 909,743; Jan. 12; Sp. p. 2646; Gaz. vol. 138; p. 467.
- Scale, Computing. J. S. Bradley. No. 909,745; Jan. 12; Sp. p. 2649; Gaz. vol. 138; p. 467.
- Scale, Computing-. W. R. Mittendorf. No. 916,754; Mar. 30; Sp. p. 6260; Gaz. vol. 140; p. 1120.
- Scale, Computing-. A. De Vilbiss, Jr. No. 936,867; Oct. 12; Sp. p. 2635; Gaz. vol. 147; p. 439.
- Scale, Computing-. L. C. Wetzel. No. 938,096; Oct. 26; Sp. p. 5217; Gaz. vol. 147; p. 894.
- Scale extension. D. N. Collins. No. 940,130; Nov. 16; Sp. p. 3735; Gaz. vol. 148; p. 636.
- Scale, Glass-measuring. C. Pulrich. No. 917,132; Apr. 6; Sp. p. 357; Gaz. vol. 141; p. 62.
- Scale, Ice-box and refrigerator. D. G. and A. H. Sansbury. No. 942,286; Dec. 7; Sp. p. 556; Gaz. vol. 149; p. 87.
- Scale, Mail-weighing. T. F. Emans. No. 929,200; July 27; Sp. p. 5176; Gaz. vol. 144; p. 917.
- Scale, Milk-weighing. G. R. and W. L. Meloney. No. 915,620; Mar. 16; Sp. p. 4050; Gaz. vol. 140; p. 699.
- Scale or educational appliance, Hydrostatic. E. J. Blood. No. 931,840; Aug. 24; Sp. p. 4687; Gaz. vol. 145; p. 812.
- Scale-pan, Butcher's. J. Feldman. No. 944,777; Dec. 28; Sp. p. 5924; Gaz. vol. 149; p. 1021.
- Scale-pendulum. J. W. Culmer. No. 910,646; Jan. 26; Sp. p. 4555; Gaz. vol. 138; p. 829.
- Scale, Platform-. M. H. Winslow. No. 916,818; Mar. 30; Sp. p. 6381; Gaz. vol. 140; p. 1140.
- Scale, Platform-. A. Petrowsky. No. 919,760; Apr. 27; Sp. p. 5987; Gaz. vol. 141; p. 1029.
- Scale, Platform-. A. A. Van Meter. No. 921,920; May 18; Sp. p. 3763; Gaz. vol. 142; p. 663.
- Scale, Platform-. T. V. Malone. No. 923,285; June 1; Sp. p. 399; Gaz. vol. 143; p. 57.
- Scale, Platform-. M. H. Winslow. No. 941,119; Nov. 23; Sp. p. 5896; Gaz. vol. 148; p. 994.
- Scale, Platform computing-. J. S. Bradley. No. 909,744; Jan. 12; Sp. p. 2648; Gaz. vol. 138; p. 467.
- Scale, Platform computing-. J. S. Bradley. No. 909,746; Jan. 12; Sp. p. 2651; Gaz. vol. 138; p. 468.
- Scale, Pocket-. O. G. Sherman. No. 917,169; Apr. 6; Sp. p. 423; Gaz. vol. 141; p. 74.
- Scale, Pocket postal. J. S. Tippery. No. 931,812; Aug. 24; Sp. p. 4639; Gaz. vol. 145; p. 803.
- Scale, Price-. G. Walker. No. 909,486; Jan. 12; Sp. p. 2130; Gaz. vol. 138; p. 378.
- Scale-spring hanger. L. Wilson. No. 937,907; Oct. 26; Sp. p. 4811; Gaz. vol. 147; p. 831.
- Scale-ticket. F. C. Maegly. No. 918,067; Apr. 13; Sp. p. 2253; Gaz. vol. 141; p. 404.
- Scale-ticket. F. C. Maegly. No. 918,346; Apr. 13; Sp. p. 2811; Gaz. vol. 141; p. 497.
- Scale, Weighing-. N. M. Hansen. No. 917,293; Apr. 6; Sp. p. 692; Gaz. vol. 141; p. 118.
- Scale, Weighing-. M. Schwartz. No. 918,777; Apr. 20; Sp. p. 3770; Gaz. vol. 141; p. 669.
- Scale, Weighing-. F. D. West. No. 931,909; Aug. 24; Sp. p. 4870; Gaz. vol. 145; p. 834.
- Scale, Weighing-. J. E. Cochran. No. 937,767; Oct. 26; Sp. p. 4523; Gaz. vol. 147; p. 784.
- Scale, Weighing-. J. E. Cochran. No. 937,768; Oct. 26; Sp. p. 4527; Gaz. vol. 147; p. 785.
- Scale, Weighing-. A. H. Neureuther. No. 941,725; Nov. 30; Sp. p. 7211; Gaz. vol. 148; p. 1216.
- Scales, Automatic cut-off for weighing-. R. W. Romig. No. 940,616; Nov. 16; Sp. p. 4804; Gaz. vol. 148; p. 801.
- Scales, Balance-ball for. M. Ruckes. No. 921,285; May 11; Sp. p. 2441; Gaz. vol. 142; p. 425.
- Scales, Friction and inertia counteracting device for. E. H. Strauss. No. 939,347; Nov. 9; Sp. p. 1981; Gaz. vol. 148; p. 337.
- Scales, Illuminating apparatus for. H. H. Bane and S. G. Crane. No. 937,573; Oct. 19; Sp. p. 4129; Gaz. vol. 147; p. 703.
- Scales, Saddle-block for. J. A. Rishel. No. 918,913; Apr. 20; Sp. p. 4076; Gaz. vol. 141; p. 715.
- Scales, Torsion-balance for. A. Hitt. No. 935,846; Oct. 5; Sp. p. 519; Gaz. vol. 147; p. 75.
- Scales, Weight-recording means for weighing-. G. Guldbrandsen. No. 938,141; Oct. 26; Sp. p. 5317; Gaz. vol. 147; p. 909.
- Sealing device. W. M. Shaw. No. 917,805; Apr. 13; Sp. p. 1689; Gaz. vol. 141; p. 313.
- Sealing-machine. C. H. Overkamp. No. 934,417; Sept. 14; Sp. p. 2914; Gaz. vol. 146; p. 498.
- Searf-sprayer. W. B. Van Eps. No. 910,884; Jan. 26; Sp. p. 5016; Gaz. vol. 138; p. 903.
- Searf-holder. H. A. Bateman. No. 921,663; May 18; Sp. p. 3250; Gaz. vol. 142; p. 578.
- Searf-holder. E. H. Rose. No. 931,147; Aug. 17; Sp. p. 3220; Gaz. vol. 145; p. 561.
- Searf-pin. E. Wagner. No. 940,094; Nov. 16; Sp. p. 3652; Gaz. vol. 148; p. 623.
- Searf-pin, brooch, &c. L. Kantor and W. Sheff. No. 915,678; Mar. 16; Sp. p. 4188; Gaz. vol. 140; p. 722.
- Searf-pin safety attachment. F. S. Reynolds. No. 942,517; Dec. 7; Sp. p. 1025; Gaz. vol. 149; p. 166.
- Scarificator. W. Niergarth. No. 931,791; Aug. 24; Sp. p. 4598; Gaz. vol. 145; p. 797.
- Scene and curtain trimming and hoisting apparatus. C. S. Harding and C. J. Spilman. No. 924,349; June 8; Sp. p. 2733; Gaz. vol. 143; p. 445.
- Scene-shifting mechanism. H. Roberts. No. 912,732; Feb. 16; Sp. p. 3576; Gaz. vol. 139; p. 631.
- Scenery for theaters, Stage-. A. Bernardi. No. 919,308; Apr. 27; Sp. p. 5046; Gaz. vol. 141; p. 876.
- School register, Sunday-. C. Bernst. No. 923,937; June 8; Sp. p. 1850; Gaz. vol. 143; p. 308.
- Scissors. J. L. Bishop. No. 929,749; Aug. 3; Sp. p. 244; Gaz. vol. 145; p. 42.
- Scissors or shears. J. H. Krouse. No. 927,058; July 6; Sp. p. 756; Gaz. vol. 144; p. 120.
- Scissors, Pocket cigar-. H. Claus. No. 921,801; May 18; Sp. p. 3516; Gaz. vol. 142; p. 624.
- Scoop. H. B. and J. A. Sauerman. No. 915,486; Mar. 16; Sp. p. 3762; Gaz. vol. 140; p. 654.
- Scoop and sifter, Combined. A. E. Westburg and G. H. Bates. No. 933,212; Sept. 7; Sp. p. 405; Gaz. vol. 146; p. 63.
- Scoop-board. W. H. Grisel. No. 929,085; July 27; Sp. p. 4930; Gaz. vol. 144; p. 879.
- Scoop, Excavating-. G. H. Dunlop. No. 915,750; Mar. 23; Sp. p. 4343; Gaz. vol. 140; p. 772.
- Scoop, Excavating-. J. W. Page. No. 916,773; Mar. 30; Sp. p. 6290; Gaz. vol. 140; p. 1125.
- Scoop-handle. G. A. Byor. No. 911,291; Feb. 2; Sp. p. 533; Gaz. vol. 139; p. 91.
- Scoop, Power-. E. F. Lorch. No. 925,817; June 22; Sp. p. 5725; Gaz. vol. 143; p. 992.
- Scoop, Self-weighing. A. H. Arnold. No. 916,251; Mar. 23; Sp. p. 5274; Gaz. vol. 140; p. 933.

*Alphabetical list of inventions—Continued.*

- Score-board. G. E. Baird. No. 911,363; Feb. 2; Sp. p. 667; Gaz. vol. 139; p. 114.  
 Score-board. M. J. Shimer. No. 918,207; Apr. 13; Sp. p. 2535; Gaz. vol. 141; p. 452.  
 Score-card, Base-ball. P. Meaney. No. 921,863; May 18; Sp. p. 3660; Gaz. vol. 142; p. 645.  
 Score-card for games. A. E. Roberts. No. 925,029; June 15; Sp. p. 4151; Gaz. vol. 143; p. 706.  
 Score-sheet, Rifleman's. E. N. Johnston. No. 917,732; Apr. 6; Sp. p. 1499; Gaz. vol. 141; p. 262.  
 Scorer, Pork or like. H. Matthews. No. 939,846; Nov. 9; Sp. p. 3070; Gaz. vol. 148; p. 507.  
 Scourer, Cutlery-. M. C. Clark. No. 921,086; May 11; Sp. p. 2027; Gaz. vol. 142; p. 357.  
 Scouring-machine. W. A. Parmenter. No. 932,638; Aug. 31; Sp. p. 6381; Gaz. vol. 145; p. 1101.  
 Scow, Concrete. O. F. Lackey. No. 933,314; Sept. 7; Sp. p. 633; Gaz. vol. 146; p. 98.  
 Scow, Dumping-. F. P. Eastman. No. 927,957; July 13; Sp. p. 2829; Gaz. vol. 144; p. 447.  
 Scow pocket-door and hinge therefor. S. G. Perry. No. 926,597; June 29; Sp. p. 7281; Gaz. vol. 143; p. 1285.  
 Scow, Self-dumping and automatic bailing. G. V. Mitchell. No. 933,657; Sept. 7; Sp. p. 1408; Gaz. vol. 146; p. 211.  
 Scow-unloading apparatus. J. W. Reno. No. 922,190; May 18; Sp. p. 4306; Gaz. vol. 142; p. 751.  
 Scrap-bundler. F. Westwood. No. 944,929; Dec. 28; Sp. p. 6243; Gaz. vol. 149; p. 1072.  
 Scraper. J. D. Vasey. No. 908,629; Jan. 5; Sp. p. 415; Gaz. vol. 138; p. 67.  
 Scraper. N. Keller. No. 913,959; Mar. 2; Sp. p. 635; Gaz. vol. 140; p. 100.  
 Scraper. A. Ekman. No. 917,568; Apr. 6; Sp. p. 1185; Gaz. vol. 141; p. 207.  
 Scraper. J. Ziegler. No. 925,259; June 15; Sp. p. 4576; Gaz. vol. 143; p. 782.  
 Scraper. A. B. Munson. No. 926,997; July 6; Sp. p. 597; Gaz. vol. 144; p. 98.  
 Scraper. J. D., H. A., G. J., and L. Zum Brunnen. No. 932,954; Aug. 31; Sp. p. 7004; Gaz. vol. 145; p. 1204.  
 Scraper. H. J. Bickle and M. Wilson. No. 934,653; Sept. 21; Sp. p. 3388; Gaz. vol. 146; p. 590.  
 Scraper. C. F. Wells. No. 934,777; Sept. 21; Sp. p. 3620; Gaz. vol. 146; p. 631.  
 Scraper. F. J. Dumond and D. W. Hall. No. 939,404; Nov. 9; Sp. p. 2141; Gaz. vol. 148; p. 355.  
 Scraper. H. Bingaman and J. A. Miller. No. 940,666; Nov. 23; Sp. p. 4929; Gaz. vol. 148; p. 843.  
 Scraper-blades, Edge-turning tool for. A. L. Myers. No. 929,690; Aug. 3; Sp. p. 101; Gaz. vol. 145; p. 19.  
 Scraper, Foot-. T. C. Prouty. No. 923,997; June 8; Sp. p. 1979; Gaz. vol. 143; p. 328.  
 Scraper, Forked or tined. G. F. Koenig. No. 936,457; Oct. 12; Sp. p. 1813; Gaz. vol. 147; p. 301.  
 Scraper, Hog-. J. F. Lawson. No. 938,594; Nov. 2; Sp. p. 345; Gaz. vol. 148; p. 52.  
 Scraper, Mechanical. F. R. Abeel. No. 921,331; May 11; Sp. p. 2542; Gaz. vol. 142; p. 440.  
 Scraper, Road-. J. T. Bland. No. 917,528; Apr. 6; Sp. p. 1119; Gaz. vol. 141; p. 195.  
 Scraper, Road-. J. A. Miller. No. 924,810; June 15; Sp. p. 3688; Gaz. vol. 143; p. 632.  
 Scraper, Road-. J. H. Osten. No. 929,699; Aug. 3; Sp. p. 123; Gaz. vol. 145; p. 22.  
 Scraper, Road-. E. G. Hartle. No. 934,071; Sept. 14; Sp. p. 2244; Gaz. vol. 146; p. 369.  
 Scraper, Road-. C. D. Kinsman. No. 937,216; Oct. 19; Sp. p. 3362; Gaz. vol. 147; p. 584.  
 Scraper, Road-. C. H. Casner. No. 939,664; Nov. 9; Sp. p. 2700; Gaz. vol. 148; p. 445.  
 Scraper, Road-. C. H. Casner. No. 939,665; Nov. 9; Sp. p. 2701; Gaz. vol. 148; p. 446.  
 Scraper, Wheel-mounted. L. C. Fasig. No. 943,864; Dec. 21; Sp. p. 3935; Gaz. vol. 149; p. 684.  
 Scraper, Wheeled. T. H. Stagg and J. Anthony. No. 910,025; Jan. 19; Sp. p. 3208; Gaz. vol. 138; p. 592.  
 Scraper, Wheeled. A. H. and L. L. Smith. No. 914,610; Mar. 9; Sp. p. 2003; Gaz. vol. 140; p. 342.  
 Scraper, Wheeled. C. H. Sawyer. No. 925,035; June 15; Sp. p. 4161; Gaz. vol. 143; p. 708.  
 Screen: See Burglar-screen; Burglar-alarm screen; Car wind-screen; Centrifugal screen; Door-screen; Fire-screen; Fish-screen; Fly-screen; Glass shade-screen; Grain-screen; Irrigating-ditch screen; Marine port-screen; Ore-screen; Oven-screen; Pulp-screen; Rolling screen; Sand-screen; Shaker-screen; Sifting-screen; Vibrating screen; Well-screen; Wind-screen; Window-screen; Wire screen.  
 Screen. H. J. Sharp. No. 909,240; Jan. 12; Sp. p. 1659; Gaz. vol. 138; p. 299.  
 Screen. A. Ganzel. No. 910,280; Jan. 19; Sp. p. 3784; Gaz. vol. 138; p. 681.  
 Screen. A. Ganzel. No. 910,281; Jan. 19; Sp. p. 3787; Gaz. vol. 138; p. 682.  
 Screen. W. C. Logan. No. 914,293; Mar. 2; Sp. p. 1360; Gaz. vol. 140; p. 211.  
 Screen. N. Ellwart. No. 928,643; July 20; Sp. p. 4045; Gaz. vol. 144; p. 704.  
 Screen. C. A. Ranney. No. 934,570; Sept. 21; Sp. p. 3210; Gaz. vol. 146; p. 560.  
 Screen. C. J. Jewett. No. 935,516; Sept. 28; Sp. p. 5121; Gaz. vol. 146; p. 900.  
 Screen. N. Brandt. No. 936,859; Oct. 12; Sp. p. 2625; Gaz. vol. 147; p. 437.  
 Screen. F. J. Rembusch. No. 937,550; Oct. 19; Sp. p. 4092; Gaz. vol. 147; p. 696.  
 Screen adjustable frame, Table-. S. Crocker. No. 910,117; Jan. 19; Sp. p. 3381; Gaz. vol. 138; p. 621.  
 Screen and clothes-rack, Combined. M. L. Ramey. No. 921,459; May 11; Sp. p. 2808; Gaz. vol. 142; p. 482.  
 Screen and storm door, Combined. G. Hessler. No. 917,605; Apr. 6; Sp. p. 1252; Gaz. vol. 141; p. 220.  
 Screen corner-piece, Window-. G. E. Ferry. No. 914,126; Mar. 2; Sp. p. 1017; Gaz. vol. 140; p. 160.  
 Screen frame, Metal-and-wood window-. F. E. Schoenberg. No. 929,251; July 27; Sp. p. 5267; Gaz. vol. 144; p. 934.  
 Screen frame, Window and door. A. H. Mix. No. 930,078; Aug. 3; Sp. p. 956; Gaz. vol. 145; p. 155.  
 Screen-frames, Angle-brace for. G. E. Ferry. No. 933,067; Sept. 7; Sp. p. 60; Gaz. vol. 146; p. 10.  
 Screen-hanger. J. T. Leonard. No. 935,267; Sept. 28; Sp. p. 4611; Gaz. vol. 146; p. 820.  
 Screen-hanger, Eaves-trough. W. Feyler. No. 914,650; Mar. 9; Sp. p. 2075; Gaz. vol. 140; p. 353.  
 Screen-holding device, Wire-. W. A. Smitson and A. German. No. 941,282; Nov. 23; Sp. p. 6266; Gaz. vol. 148; p. 1048.  
 Screen mounting, Window-. J. F. Beatty. No. 935,577; Sept. 28; Sp. p. 5253; Gaz. vol. 146; p. 921.  
 Screen-plates, Making. E. J. Welch and A. Crocker. No. 919,505; Apr. 27; Sp. p. 5493; Gaz. vol. 141; p. 944.  
 Screen window or door. W. Flanagan and L. M. Mullinix. No. 937,585; Oct. 19; Sp. p. 4155; Gaz. vol. 147; p. 707.  
 Screens, Apparatus for projecting images on. C. F. de Soria. No. 923,209; June 1; Sp. p. 187; Gaz. vol. 143; p. 31.  
 Screens, Fly attachment for. E. White. No. 942,120; Dec. 7; Sp. p. 197; Gaz. vol. 149; p. 30.  
 Screens, Guide-strip for sliding. H. W. and W. W. Watson. No. 943,800; Dec. 21; Sp. p. 3807; Gaz. vol. 149; p. 662.  
 Screens, Producing polychromatic. A. and L. Lumière. No. 916,467; Mar. 30; Sp. p. 5715; Gaz. vol. 140; p. 1031.  
 Screening apparatus. J. H. Lynch. No. 944,097; Dec. 21; Sp. p. 4429; Gaz. vol. 149; p. 763.  
 Screw. A. C. Aichman. No. 922,072; May 18; Sp. p. 4073; Gaz. vol. 142; p. 712.  
 Screw. O. Rehse. No. 924,273; June 8; Sp. p. 2576; Gaz. vol. 143; p. 419.  
 Screw. A. Umholtz. No. 933,865; Sept. 14; Sp. p. 1843; Gaz. vol. 146; p. 304.  
 Screw and other fastening ornamental cap. R. S. Bowen. No. 915,068; Mar. 16; Sp. p. 2896; Gaz. vol. 140; p. 517.  
 Screw-cap. F. H. Gross. No. 937,238; Oct. 19; Sp. p. 3418; Gaz. vol. 147; p. 591.  
 Screw-coupling. G. Schuhmann. No. 929,027; July 27; Sp. p. 4811; Gaz. vol. 144; p. 860.  
 Screw-cutter. A. R. Weisz. No. 919,271; Apr. 20; Sp. p. 4944; Gaz. vol. 141; p. 824.  
 Screw cutting and turning lathe, Automatic. J. Coulter. No. 908,960; Jan. 5; Sp. p. 1070; Gaz. vol. 138; p. 174.  
 Screw-cutting device. L. F. Hart. No. 925,100; June 15; Sp. p. 4282; Gaz. vol. 143; p. 730.  
 Screw-cutting device. L. F. Hart. No. 925,181; June 15; Sp. p. 4437; Gaz. vol. 143; p. 757.  
 Screw-cutting machine. E. J. Miller. No. 935,315; Sept. 28; Sp. p. 4707; Gaz. vol. 146; p. 835.  
 Screw-cutting machine. R. C. Nugent. No. 942,791; Dec. 7; Sp. p. 1561; Gaz. vol. 149; p. 257.  
 Screw-driver. S. H. Wiesedeppe. No. 909,723; Jan. 12; Sp. p. 2607; Gaz. vol. 138; p. 461.  
 Screw-driver. A. Whisler. No. 915,003; Mar. 9; Sp. p. 2770; Gaz. vol. 140; p. 468.  
 Screw-driver. C. E. Mitchell. No. 918,073; Apr. 13; Sp. p. 2266; Gaz. vol. 141; p. 407.  
 Screw-driver. C. Kummer. No. 924,999; June 15; Sp. p. 4096; Gaz. vol. 143; p. 696.  
 Screw-driver. A. Loewenberg. No. 925,115; June 15; Sp. p. 4313; Gaz. vol. 143; p. 734.  
 Screw-driver. J. B. Ruple. No. 938,341; Oct. 26; Sp. p. 5752; Gaz. vol. 147; p. 979.  
 Screw-driver. B. Presson. No. 942,742; Dec. 7; Sp. p. 1470; Gaz. vol. 149; p. 241.  
 Screw-driver and tweezers, Combined. A. Bjorn and C. E. Cashmore. No. 942,373; Dec. 7; Sp. p. 715; Gaz. vol. 149; p. 116.  
 Screw-driver blades, Former for. C. F. Sullivan. No. 916,215; Mar. 23; Sp. p. 5199; Gaz. vol. 140; p. 921.  
 Screw-driver, Micrometer. G. W. Bowers. No. 922,080; May 18; Sp. p. 4095; Gaz. vol. 142; p. 715.  
 Screw-driver, Pocket. H. J. Borsch. No. 933,878; Sept. 14; Sp. p. 1869; Gaz. vol. 146; p. 308.  
 Screw-driver screw-holder. S. G. North. No. 914,174; Mar. 2; Sp. p. 1121; Gaz. vol. 140; p. 175.  
 Screw-driver, Spiral. J. A. Leland. No. 942,571; Dec. 7; Sp. p. 1129; Gaz. vol. 149; p. 183.  
 Screw-drivers, &c., Operating attachment for. P. S. Peterson. No. 928,003; July 13; Sp. p. 2698; Gaz. vol. 144; p. 460.  
 Screw-driving machine. E. P. Wanner. No. 922,221; May 18; Sp. p. 4390; Gaz. vol. 142; p. 761.  
 Screw-driving machine. J. J. W. Kenan. No. 944,561; Dec. 28; Sp. p. 5466; Gaz. vol. 149; p. 949.  
 Screw-holder. F. M. Jacobs. No. 915,770; Mar. 23; Sp. p. 4390; Gaz. vol. 140; p. 779.  
 Screw, Jack-. J. H. and J. W. Hartley. No. 912,675; Feb. 16; Sp. p. 3406; Gaz. vol. 139; p. 610.  
 Screw-jack. C. V. Fowler. No. 938,840; Nov. 2; Sp. p. 836; Gaz. vol. 148; p. 134.  
 Screw-lock. E. Müller. No. 928,997; July 27; Sp. p. 4748; Gaz. vol. 144; p. 850.



*Alphabetical list of inventions—Continued.*

- Screw, Machine-. J. L. De Steiger. No. 933,831; Sept. 14; Sp. p. 1770; Gaz. vol. 146; p. 294.  
 Screw-machine, Automatic. H. B. Lester. No. 916,461; Mar. 30; Sp. p. 5696; Gaz. vol. 140; p. 1029.  
 Screw-machine, Automatic. H. B. Lester. No. 939,604; Nov. 9; Sp. p. 2568; Gaz. vol. 148; p. 422.  
 Screw, Packing-. H. H. Bales. No. 919,808; Apr. 27; Sp. p. 6081; Gaz. vol. 141; p. 1046.  
 Screw-press. C. M. Adams. No. 931,833; Aug. 24; Sp. p. 4673; Gaz. vol. 145; p. 810.  
 Screw-press mechanisms, Quick return for. A. W. Williams. No. 924,122; June 8; Sp. p. 2204; Gaz. vol. 143; p. 367.  
 Screw-propeller. A. R. Weisz. No. 915,255; Mar. 16; Sp. p. 3315; Gaz. vol. 140; p. 579.  
 Screw-punch, Ratchet. W. Butler. No. 910,902; Jan. 26; Sp. p. 5046; Gaz. vol. 138; p. 908.  
 Screw, Set-. C. G. Lundholm. No. 936,549; Oct. 12; Sp. p. 2011; Gaz. vol. 147; p. 331.  
 Screw. A. Levedahl. No. 942,506; Dec. 7; Sp. p. 1006; Gaz. vol. 149; p. 162.  
 Screw-slotting machine. F. N. Tilton. No. 913,585; Feb. 23; Sp. p. 5302; Gaz. vol. 139; p. 938.  
 Screw-thread-cutting mechanism. W. G. Allen and R. G. Henry. No. 928,489; July 20; Sp. p. 3718; Gaz. vol. 144; p. 654.  
 Screw-thread-finishing tool. A. T. Crane. No. 935,247; Sept. 28; Sp. p. 4570; Gaz. vol. 146; p. 813.  
 Screw-threads, Device for cutting crooked. A. S. Baird. No. 921,501; May 11; Sp. p. 2889; Gaz. vol. 142; p. 497.  
 Screw-threads, Method of and means for forming. L. Markel. No. 936,249; Oct. 5; Sp. p. 1333; Gaz. vol. 147; p. 205.  
 Screw-threaded fastenings, Machine for inserting. O. Ashton. No. 920,241; May 4; Sp. p. 299; Gaz. vol. 142; p. 49.  
 Screw-threading devices, Work-holding means for. L. F. Hart. No. 935,107; Sept. 28; Sp. p. 4307; Gaz. vol. 146; p. 768.  
 Screw-threading implement. G. F. Chapman. No. 938,973; Nov. 2; Sp. p. 1130; Gaz. vol. 148; p. 181.  
 Screws, Lock for machine-. W. Schott. No. 920,399; May 4; Sp. p. 629; Gaz. vol. 142; p. 100.  
 Screws, &c., Machine for making. C. Y. Knight. No. 914,353; Mar. 2; Sp. p. 1482; Gaz. vol. 140; p. 231.  
 Scrubbing-machine. C. H. Henning. No. 920,136; May 4; Sp. p. 93; Gaz. vol. 142; p. 13.  
 Scrubbing-machine. A. F. Fischer. No. 924,443; June 8; Sp. p. 2906; Gaz. vol. 143; p. 475.  
 Scrubbing-machine. O. H. Witt. No. 930,256; Aug. 3; Sp. p. 1292; Gaz. vol. 145; p. 213.  
 Scrubbing-machine. H. F. Ackerman. No. 937,353; Oct. 19; Sp. p. 3649; Gaz. vol. 147; p. 628.  
 Scrubbing machine, Floor-. A. Grub. No. 909,084; Jan. 5; Sp. p. 1336; Gaz. vol. 138; p. 214.  
 Scythe. J. Huss. No. 908,995; Jan. 5; Sp. p. 1162; Gaz. vol. 138; p. 185.  
 Scythe. A. S. and L. D. Orr. No. 912,157; Feb. 9; Sp. p. 2301; Gaz. vol. 139; p. 399.  
 Scythe-fastening device. J. C. Mahan. No. 916,744; Mar. 30; Sp. p. 6245; Gaz. vol. 140; p. 1117.  
 Scythe-snath. H. B. Hewitt. No. 922,139; May 18; Sp. p. 4199; Gaz. vol. 142; p. 734.  
 Scythe-snath. J. N. Radcliff. No. 928,883; July 20; Sp. p. 4512; Gaz. vol. 144; p. 786.  
 Seal. E. J. Brooks. No. 909,363; Jan. 12; Sp. p. 1889; Gaz. vol. 138; p. 338.  
 Seal. E. J. Brooks. No. 917,410; Apr. 6; Sp. p. 910; Gaz. vol. 141; p. 158.  
 Seal. L. V. Mather. No. 918,570; Apr. 20; Sp. p. 3281; Gaz. vol. 141; p. 597.  
 Seal. E. J. Brooks. No. 919,316; Apr. 27; Sp. p. 5059; Gaz. vol. 141; p. 878.  
 Seal. L. A. Foote. No. 920,449; May 4; Sp. p. 728; Gaz. vol. 142; p. 116.  
 Seal. M. H. V. Battenberg. No. 925,416; June 15; Sp. p. 4858; Gaz. vol. 143; p. 830.  
 Seal. J. C. Reister. No. 930,227; Aug. 3; Sp. p. 1239; Gaz. vol. 145; p. 205.  
 Seal. R. A. Baeuerle. No. 931,670; Aug. 17; Sp. p. 4291; Gaz. vol. 145; p. 733.  
 Seal. J. A. Edgar. No. 933,700; Sept. 7; Sp. p. 1507; Gaz. vol. 146; p. 227.  
 Seal. W. Collins. No. 938,979; Nov. 2; Sp. p. 1148; Gaz. vol. 148; p. 183.  
 Seal. A. W. Loshbough. No. 943,834; Dec. 21; Sp. p. 3874; Gaz. vol. 149; p. 674.  
 Seal. W. M. Steele. No. 944,701; Dec. 28; Sp. p. 5754; Gaz. vol. 149; p. 996.  
 Seal. W. M. Steele. No. 944,702; Dec. 28; Sp. p. 5755; Gaz. vol. 149; p. 996.  
 Seal and lock, Window or door. C. E. Lahart. No. 928,466; July 20; Sp. p. 3681; Gaz. vol. 144; p. 647.  
 Seal and protector for knots. J. Shapiro and N. Komow. No. 935,554; Sept. 28; Sp. p. 5206; Gaz. vol. 146; p. 913.  
 Seal and spout for cans and other receptacles. H. A. Truesdale. No. 942,847; Dec. 7; Sp. p. 1699; Gaz. vol. 149; p. 275.  
 Seal, Bag-. E. J. Brooks. No. 912,533; Feb. 16; Sp. p. 3128; Gaz. vol. 139; p. 562.  
 Seal, Box-. E. J. Brooks. No. 925,450; June 22; Sp. p. 4944; Gaz. vol. 143; p. 873.  
 Seal, Box-. E. J. Brooks. No. 925,451; June 22; Sp. p. 4946; Gaz. vol. 143; p. 873.  
 Seal, Box-. E. J. Brooks. No. 927,217; July 6; Sp. p. 1066; Gaz. vol. 144; p. 173.  
 Seal, Box-. W. M. Brooks. No. 928,176; July 13; Sp. p. 3039; Gaz. vol. 144; p. 519.  
 Seal, Box-. W. M. Brooks. No. 938,206; Oct. 26; Sp. p. 5461; Gaz. vol. 147; p. 933.  
 Seal, Box-. J. J. Ferrall and E. Mackray. No. 940,242; Nov. 16; Sp. p. 3972; Gaz. vol. 148; p. 676.  
 Seal, Box-. E. J. Brooks. No. 940,505; Nov. 16; Sp. p. 4582; Gaz. vol. 148; p. 765.  
 Seal, Car-. J. W. Bowers. No. 922,251; May 18; Sp. p. 4441; Gaz. vol. 142; p. 771.  
 Seal, Car-. H. I. Lahr. No. 923,861; June 8; Sp. p. 1713; Gaz. vol. 143; p. 285.  
 Seal, Car-. F. W. Brooks. No. 931,379; Aug. 17; Sp. p. 3724; Gaz. vol. 145; p. 643.  
 Seal, Car-. W. H. Sullivan. No. 932,351; Aug. 24; Sp. p. 5750; Gaz. vol. 145; p. 982.  
 Seal, Car-. W. B. Eichholtz. No. 935,898; Oct. 5; Sp. p. 639; Gaz. vol. 147; p. 93.  
 Seal, Car-. E. L. Sabey. No. 936,042; Oct. 5; Sp. p. 930; Gaz. vol. 147; p. 140.  
 Seal device. E. C. Yeoman. No. 926,161; June 29; Sp. p. 6439; Gaz. vol. 143; p. 1142.  
 Seal-fastening. W. and G. Vickery. No. 917,199; Apr. 6; Sp. p. 486; Gaz. vol. 141; p. 85.  
 Seal for car-doors, shipping-receptacles, &c. J. J. A. Miller. No. 932,159; Aug. 24; Sp. p. 5385; Gaz. vol. 145; p. 918.  
 Seal for packages. H. Worsham. No. 932,228; Aug. 24; Sp. p. 5530; Gaz. vol. 145; p. 941.  
 Seal for rotary apparatus, Liquid. F. Samuelson. No. 924,836; June 15; Sp. p. 3744; Gaz. vol. 143; p. 640.  
 Seal-lock. J. MacKenzie. No. 917,090; Apr. 6; Sp. p. 259; Gaz. vol. 141; p. 47.  
 Seal-lock. E. L. Christian. No. 919,539; Apr. 27; Sp. p. 5555; Gaz. vol. 141; p. 954.  
 Seal-lock. P. Stover and L. Chambers. No. 927,294; July 6; Sp. p. 1212; Gaz. vol. 144; p. 199.  
 Seal-lock. I. J. Palmer. No. 932,492; Aug. 31; Sp. p. 6060; Gaz. vol. 145; p. 1051.  
 Seal-lock. H. Stamm. No. 934,229; Sept. 14; Sp. p. 2564; Gaz. vol. 146; p. 424.  
 Seal-lock. O. Edler. No. 935,195; Sept. 28; Sp. p. 4468; Gaz. vol. 146; p. 795.  
 Seal-lock. W. K. Blodgett. No. 938,813; Nov. 2; Sp. p. 778; Gaz. vol. 148; p. 125.  
 Seal-lock. E. L. Pitts. No. 940,475; Nov. 16; Sp. p. 4512; Gaz. vol. 148; p. 754.  
 Seal, Mechanical. F. P. Pfeighar. No. 919,761; Apr. 27; Sp. p. 5988; Gaz. vol. 141; p. 1029.  
 Seal, Metallic. W. E. Elliott. No. 942,315; Dec. 7; Sp. p. 612; Gaz. vol. 149; p. 97.  
 Seal, Metallic. W. E. Elliott. No. 942,316; Dec. 7; Sp. p. 614; Gaz. vol. 149; p. 98.  
 Seal opener, Crown-. J. D. Coughlin. No. 930,732; Aug. 10; Sp. p. 2280; Gaz. vol. 145; p. 396.  
 Seal-press. H. S. Maidhof. No. 911,251; Feb. 2; Sp. p. 458; Gaz. vol. 139; p. 79.  
 Seal-press. H. C. Pomeroy. No. 914,672; Mar. 9; Sp. p. 2151; Gaz. vol. 140; p. 936.  
 Seal-press. E. J. Brooks. No. 932,438; Aug. 31; Sp. p. 5927; Gaz. vol. 145; p. 1033.  
 Seal, Snap-. E. J. Brooks. No. 912,534; Feb. 16; Sp. p. 3131; Gaz. vol. 139; p. 562.  
 Seal, Snap-. E. J. Brooks. No. 919,316; Apr. 27; Sp. p. 5057; Gaz. vol. 141; p. 878.  
 Seal, Snap-. E. J. Brooks. No. 923,014; May 25; Sp. p. 6009; Gaz. vol. 142; p. 1047.  
 Seal, Snap-. E. J. Brooks. No. 923,015; May 25; Sp. p. 6010; Gaz. vol. 142; p. 1047.  
 Seal, Snap-. E. J. Brooks. No. 937,575; Oct. 19; Sp. p. 4134; Gaz. vol. 147; p. 703.  
 Seal, Snap-. E. J. Brooks. No. 942,774; Dec. 7; Sp. p. 1536; Gaz. vol. 149; p. 252.  
 Seal, Tag-attaching. E. J. Brooks. No. 942,435; Dec. 7; Sp. p. 834; Gaz. vol. 149; p. 137.  
 Seals, Making bottle-. G. H. Gillette. No. 934,399; Sept. 14; Sp. p. 2880; Gaz. vol. 146; p. 481.  
 Seals on paper, Device for impressing. A. L. Webster. No. 909,836; Jan. 12; Sp. p. 2815; Gaz. vol. 138; p. 496.  
 Seals on paper, Device for impressing. F. Gottschalk. No. 938,756; Nov. 2; Sp. p. 662; Gaz. vol. 148; p. 105.  
 Seals on paper, Device for impressing. F. Gottschalk. No. 938,757; Nov. 2; Sp. p. 663; Gaz. vol. 148; p. 105.  
 Seals, Packing and registering. W. E. Elliott. No. 942,317; Dec. 7; Sp. p. 618; Gaz. vol. 149; p. 98.  
 Sealing and stamping machine, Envelop. J. A. Miller. No. 930,400; Aug. 10; Sp. p. 1568; Gaz. vol. 145; p. 284.  
 Sealing and stamping machine, Envelop. C. F. Davis. No. 930,737; Aug. 10; Sp. p. 2288; Gaz. vol. 145; p. 398.  
 Sealing apparatus. J. C. Thom. No. 939,453; Nov. 9; Sp. p. 2237; Gaz. vol. 148; p. 372.  
 Seating apparatus, Vacuum. G. A. Beardsley and D. Wardell. No. 930,025; Aug. 3; Sp. p. 849; Gaz. vol. 145; p. 137.  
 Sealing-band. J. W. Ripper. No. 909,337; Jan. 12; Sp. p. 1843; Gaz. vol. 138; p. 330.  
 Sealing box-fasteners, Tool for. R. Schleicher. No. 942,673; Dec. 7; Sp. p. 1327; Gaz. vol. 149; p. 219.  
 Seam-dampening machine, Turn-down-collar. W. A. Zeidler. No. 942,233; Dec. 7; Sp. p. 442; Gaz. vol. 149; p. 68.  
 Sealing device, Bottle-. R. V. Lyon. No. 928,872; July 20; Sp. p. 4487; Gaz. vol. 144; p. 782.  
 Sealing device, Box-. E. J. Brooks. No. 925,990; June 22; Sp. p. 6067; Gaz. vol. 143; p. 1049.  
 Sealing device, Packing-case-. C. C. Batchelor. No. 936,289; Oct. 12; Sp. p. 1415; Gaz. vol. 147; p. 245.

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- Sealing fruit-cans and the like. W. Plinatus. No. 925,223; June 15; Sp. p. 4524; Gaz. vol. 143; p. 772.
- Sealing machine, Bottle-. E. J. Godman and W. H. Niemeyer. No. 933,549; Sept. 7; Sp. p. 1208; Gaz. vol. 146; p. 176.
- Sealing machine, Envelop-. D. G. Butts. No. 922,255; May 18; Sp. p. 4451; Gaz. vol. 142; p. 773.
- Sealing machine, Envelop-. M. E. Mayo. No. 923,193; June 1; Sp. p. 153; Gaz. vol. 143; p. 25.
- Sealing machine, Envelop-. A. F. Roberts. No. 926,827; July 6; Sp. p. 258; Gaz. vol. 144; p. 41.
- Sealing machine, Envelop-. C. F. G. Umbach. No. 932,920; Aug. 31; Sp. p. 6935; Gaz. vol. 145; p. 1192.
- Sealing machine for containers, Vacuum-. J. Brenzinger. No. 940,123; Nov. 16; Sp. p. 3720; Gaz. vol. 148; p. 634.
- Sealing means. F. A. Winslow. No. 938,193; Oct. 26; Sp. p. 5438; Gaz. vol. 147; p. 928.
- Sealing-nipple for vacuum-jackets. J. L. Fate. No. 926,694; June 29; Sp. p. 7473; Gaz. vol. 143; p. 1317.
- Sealing preserving-jars and other purposes, Composition for. A. H. Kerr. No. 930,481; Aug. 10; Sp. p. 1721; Gaz. vol. 145; p. 311.
- Sealing preserving-jars and other purposes, Composition for. A. H. Kerr. No. 930,482; Aug. 10; Sp. p. 1723; Gaz. vol. 145; p. 311.
- Sealing receptacles from which air or gas has been exhausted, Hermetically. S. Eisenstein. No. 911,387; Feb. 2; Sp. p. 712; Gaz. vol. 139; p. 122.
- Sealing receptacles, Fusible tablet for. W. M. Brownlee. No. 937,565; Oct. 19; Sp. p. 4118; Gaz. vol. 147; p. 701.
- Sealing vessels. J. A. Hicks. No. 936,893; Oct. 12; Sp. p. 2690; Gaz. vol. 147; p. 449.
- Sealing vessels, Means for. J. M. Hicks. No. 934,072; Sept. 14; Sp. p. 2245; Gaz. vol. 146; p. 370.
- Sealing-wax pot. E. E. Saums. No. 928,072; July 13; Sp. p. 2841; Gaz. vol. 144; p. 484.
- Seam body-former, Lap-. L. C. Krummel. No. 934,191; Sept. 14; Sp. p. 2487; Gaz. vol. 146; p. 411.
- Seam-cutting device. W. Trafford. No. 934,585; Sept. 21; Sp. p. 3242; Gaz. vol. 146; p. 565.
- Seam-dampening machine. T. Tothill, Sr. No. 913,245; Feb. 23; Sp. p. 4593; Gaz. vol. 139; p. 823.
- Seam for sewed articles. W. Arbetter. No. 937,274; Oct. 19; Sp. p. 3492; Gaz. vol. 147; p. 604.
- Seam for sewed articles. W. Arbetter. No. 937,275; Oct. 19; Sp. p. 3493; Gaz. vol. 147; p. 604.
- Seam or hem. W. Arbetter. No. 937,272; Oct. 19; Sp. p. 3488; Gaz. vol. 147; p. 603.
- Seam-ripper. T. F. Freeman. No. 914,130; Mar. 2; Sp. p. 1022; Gaz. vol. 140; p. 161.
- Seam-ripper. C. W. Newton. No. 923,567; June 1; Sp. p. 1016; Gaz. vol. 143; p. 155.
- Seaming, Double. V. Odquist and H. H. Lyche. No. 926,591; June 29; Sp. p. 7259; Gaz. vol. 143; p. 1283.
- Seaming machine, Can-. F. Rudolphi. No. 920,658; May 4; Sp. p. 1144; Gaz. vol. 142; p. 185.
- Seaming machine, Double-. O. Ostlin and F. Rudolphi. No. 920,634; May 4; Sp. p. 1094; Gaz. vol. 142; p. 178.
- Seaming machine, Double-. C. J. Nelson and O. Ostlin. No. 923,688; June 1; Sp. p. 1268; Gaz. vol. 143; p. 197.
- Seaming machine, Stationary can-double. C. J. Nelson and O. Ostlin. No. 923,687; June 1; Sp. p. 1263; Gaz. vol. 143; p. 196.
- Seaming machine, Tinner's double-. H. Poell. No. 939,083; Nov. 2; Sp. p. 1346; Gaz. vol. 148; p. 219.
- Seaming mechanism for can-bodies, Head-. L. C. Krummel. No. 934,921; Sept. 21; Sp. p. 3908; Gaz. vol. 146; p. 678.
- Search-lights and the like, Remote electric-control system for. A. Le Blanc. No. 939,719; Nov. 9; Sp. p. 2799; Gaz. vol. 148; p. 463.
- Search-light mounting. E. C. Everett. No. 930,059; Aug. 3; Sp. p. 922; Gaz. vol. 145; p. 148.
- Seasickness, Device for preventing. G. Dittmar. No. 920,441; May 4; Sp. p. 714; Gaz. vol. 142; p. 113.
- Seat: See Adjustable seat; Air-cushion seat; Auditorium-seat; Automobile-seat; Bath-tub seat; Box-seat; Car-seat; Chair-seat; Child's seat; Closet-seat; Commode-seat; Convertible seat; Folding seat; Hammock or swinging seat; Rail-curve seat; Supplemental seat; Toilet-seat; Vehicle-seat; Wagon-seat; Water-closet seat; Water-closet sanitary seat.
- Seat. H. E. Irwin. No. 920,873; May 4; Sp. p. 1602; Gaz. vol. 142; p. 255.
- Seat and desk, Combined school. O. C. Evans. No. 908,653; Jan. 5; Sp. p. 483; Gaz. vol. 138; p. 75.
- Seat attachment. H. H. Schott. No. 910,589; Jan. 26; Sp. p. 4443; Gaz. vol. 138; p. 810.
- Seat attachment. J. Nause. No. 938,329; Oct. 26; Sp. p. 5724; Gaz. vol. 147; p. 975.
- Seat, Convertible cushioned and non-cushioned. H. C. Barrett and L. S. Alter. No. 912,781; Feb. 16; Sp. p. 3685; Gaz. vol. 139; p. 648.
- Seat cover, Sanitary toilet-. P. Ganzhorn. No. 944,854; Dec. 28; Sp. p. 6104; Gaz. vol. 149; p. 1048.
- Seat end. E. G. Budd. No. 916,416; Mar. 30; Sp. p. 5598; Gaz. vol. 140; p. 1014.
- Seat end. E. G. Budd. No. 933,742; Sept. 14; Sp. p. 1610; Gaz. vol. 146; p. 265.
- Seat-fastener, Safety. J. A. Heintz. No. 910,679; Jan. 26; Sp. p. 4606; Gaz. vol. 138; p. 838.
- Seat for sidehill implements, Adjustable. C. and E. G. Young. No. 918,249; Apr. 13; Sp. p. 2629; Gaz. vol. 141; p. 465.
- Seat-frame. E. G. Budd. No. 923,809; June 3; Sp. p. 1618; Gaz. vol. 143; p. 268.
- Seat-frame. E. G. Budd and J. A. Wollé. No. 939,389; Nov. 9; Sp. p. 2100; Gaz. vol. 148; p. 351.
- Seat or stool, Adjustable. A. J. Davis. No. 916,536; Mar. 30; Sp. p. 5870; Gaz. vol. 140; p. 1053.
- Seat-rail attachment, Adjustable. C. R. Allen. No. 918,251; Apr. 13; Sp. p. 2632; Gaz. vol. 141; p. 466.
- Seat-register. W. and S. Barr. No. 921,342; May 11; Sp. p. 2576; Gaz. vol. 142; p. 444.
- Seat-spring. E. L. Bean. No. 921,942; May 18; Sp. p. 3805; Gaz. vol. 142; p. 669.
- Seats, Tufting-button for cushion-. L. A. Young. No. 913,248; Feb. 23; Sp. p. 4597; Gaz. vol. 139; p. 824.
- Secondary battery. H. F. Joel. No. 910,822; Jan. 26; Sp. p. 4900; Gaz. vol. 138; p. 884.
- Secondary battery. H. F. Joel. No. 916,320; Mar. 23; Sp. p. 5390; Gaz. vol. 140; p. 957.
- Secondary battery. H. F. Joel. No. 916,321; Mar. 23; Sp. p. 5392; Gaz. vol. 140; p. 957.
- Secondary battery. W. Morrison. No. 916,575; Mar. 30; Sp. p. 5943; Gaz. vol. 140; p. 1066.
- Secondary battery. E. C. and M. Ekströmer. No. 918,831; Apr. 20; Sp. p. 3892; Gaz. vol. 141; p. 686.
- Secondary battery. H. F. Joel. No. 931,929; Aug. 24; Sp. p. 4901; Gaz. vol. 145; p. 841.
- Secondary battery. W. Morrison. No. 940,043; Nov. 16; Sp. p. 3535; Gaz. vol. 148; p. 605.
- Secondary electric battery or accumulator. W. Moseley. No. 930,213; Aug. 3; Sp. p. 1219; Gaz. vol. 145; p. 200.
- Section-liner. E. B. Kerst. No. 938,769; Nov. 2; Sp. p. 683; Gaz. vol. 148; p. 109.
- Sectional boiler. R. Glogner. No. 913,489; Feb. 23; Sp. p. 5072; Gaz. vol. 139; p. 906.
- Sectional boiler. E. M. Bosley. No. 930,140; Aug. 3; Sp. p. 1093; Gaz. vol. 145; p. 178.
- Sectional stand. F. G. Grimmer. No. 912,308; Feb. 16; Sp. p. 2648; Gaz. vol. 139; p. 486.
- Sectional wheel. E. E. Slick. No. 932,064; Aug. 24; Sp. p. 5199; Gaz. vol. 145; p. 887.
- Securing bodies together, Means for. R. C. Sayer. No. 933,852; Sept. 14; Sp. p. 1819; Gaz. vol. 146; p. 300.
- Sediment-cup, strainer, and drain-plug, Combined. H. E. Coffin. No. 920,271; May 4; Sp. p. 396; Gaz. vol. 142; p. 60.
- Seedbox. A. G. Yates. No. 913,605; Feb. 23; Sp. p. 5340; Gaz. vol. 139; p. 945.
- Seed cleaner, Gin cotton-. H. A. Sugg. No. 932,350; Aug. 24; Sp. p. 5750; Gaz. vol. 145; p. 981.
- Seed conveyer, Cotton-. D. H. Greeson. No. 938,052; Oct. 26; Sp. p. 5117; Gaz. vol. 147; p. 880.
- Seed-corn rack. C. A. Dewey. No. 929,922; Aug. 3; Sp. p. 639; Gaz. vol. 145; p. 102.
- Seed-delinting machine, Cotton-. E. J. O'Brien. No. 927,586; July 13; Sp. p. 1808; Gaz. vol. 144; p. 322.
- Seed-delinting machine, Cotton-. W. E. Worth. No. 936,282; Oct. 5; Sp. p. 1398; Gaz. vol. 147; p. 216.
- Seed-drill. S. L. Allen. No. 932,666; Aug. 31; Sp. p. 6435; Gaz. vol. 145; p. 1111.
- Seed-drill. G. W. Nation. No. 934,828; Sept. 21; Sp. p. 3726; Gaz. vol. 146; p. 647.
- Seed-drill. A. M. Campbell and I. Howard. No. 936,408; Oct. 12; Sp. p. 1694; Gaz. vol. 147; p. 285.
- Seed, Duplex apparatus for delinting cotton-. W. L. Nahm and E. J. O'Brien, Jr. No. 934,336; Sept. 14; Sp. p. 2761; Gaz. vol. 146; p. 458.
- Seed-germinating tester. W. E. Lacy. No. 940,167; Nov. 16; Sp. p. 3518; Gaz. vol. 148; p. 648.
- Seed-planter. H. L. Grisell and H. Haley. No. 909,289; Jan. 12; Sp. p. 1749; Gaz. vol. 138; p. 314.
- Seed-separating machine. E. H. Geise. No. 928,120; July 13; Sp. p. 2918; Gaz. vol. 144; p. 499.
- Seed-stand. R. Nicholson. No. 927,671; July 13; Sp. p. 2022; Gaz. vol. 144; p. 352.
- Seeder. J. Hitchings. No. 924,228; June 8; Sp. p. 2492; Gaz. vol. 143; p. 404.
- Seeder. H. Bessen. No. 935,734; Oct. 5; Sp. p. 233; Gaz. vol. 147; p. 38.
- Seeder. G. A. Knoblock. No. 938,492; Nov. 2; Sp. p. 103; Gaz. vol. 148; p. 16.
- Seeder. C. W. Stark. No. 942,868; Dec. 7; Sp. p. 1742; Gaz. vol. 149; p. 282.
- Seeder, Broom-corn. J. W. Courtney and J. C. Porter. No. 944,178; Dec. 21; Sp. p. 4605; Gaz. vol. 149; p. 790.
- Seeder, Fruit-. T. H. Elliott. No. 934,900; Sept. 21; Sp. p. 3853; Gaz. vol. 146; p. 671.
- Seeder, Fruit-. T. H. Elliott. No. 934,963; Sept. 21; Sp. p. 3993; Gaz. vol. 146; p. 694.
- Seeder, Hand-. S. B. and J. F. Rittenhouse. No. 927,429; July 6; Sp. p. 1463; Gaz. vol. 144; p. 243.
- Seeder, Sugar-beet. G. M. Roos. No. 939,635; Nov. 9; Sp. p. 2632; Gaz. vol. 148; p. 434.
- Seedling and drilling machine. T. J. Thorp. No. 909,478; Jan. 12; Sp. p. 2113; Gaz. vol. 138; p. 375.
- Seedling device. J. Pricer and T. J. Bartow. No. 939,087; Nov. 2; Sp. p. 1354; Gaz. vol. 148; p. 220.
- Seedling device, Combined disk and shoe. N. L. Heckman. No. 943,406; Dec. 14; Sp. p. 2944; Gaz. vol. 149; p. 496.
- Seedling-machine. H. Arnold. No. 939,964; Nov. 16; Sp. p. 3334; Gaz. vol. 148; p. 577.
- Seedling-machine. W. L. Paul. No. 944,578; Dec. 28; Sp. p. 5502; Gaz. vol. 149; p. 955.
- Seedling-machine automatic adjuster. H. F. Deterding. No. 912,825; Feb. 16; Sp. p. 3758; Gaz. vol. 139; p. 662.
- Seedling-machine automatic adjuster. H. F. Deterding. No. 912,826; Feb. 16; Sp. p. 3762; Gaz. vol. 139; p. 662.
- Seedling machine, Fruit-. B. H. and M. Paul. No. 943,955; Dec. 21; Sp. p. 4131; Gaz. vol. 149; p. 716.
- Seedling machine, Raisin-. W. H. Knapp. No. 940,327; Nov. 16; Sp. p. 4176; Gaz. vol. 148; p. 704.



*Alphabetical list of inventions—Continued.*

- Seeding-machines, Means for operating furrow-openers of. H. F. Deterding. No. 912,827; Feb. 16; Sp. p. 3769; Gaz. vol. 139; p. 663.
- Seines, Means for securing the salvage-lines of. A. Yancey. No. 919,108; Apr. 20; Sp. p. 4441; Gaz. vol. 141; p. 776.
- Seining apparatus. A. Yancey. No. 919,107; Apr. 20; Sp. p. 4438; Gaz. vol. 141; p. 775.
- Seining apparatus. A. Yancey. No. 919,109; Apr. 20; Sp. p. 4442; Gaz. vol. 141; p. 776.
- Selsometer. J. M. Wood. No. 923,397; June 1; Sp. p. 655; Gaz. vol. 143; p. 95.
- Selective A.C.-D.C. system. G. H. Hill. No. 935,023; Sept. 28; Sp. p. 4115; Gaz. vol. 146; p. 738.
- Selective A.C.-D.C. system. J. F. Trittle. No. 935,069; Sept. 28; Sp. p. 4220; Gaz. vol. 146; p. 755.
- Selective A.C.-D.C. system. J. F. Trittle. No. 935,070; Sept. 28; Sp. p. 4222; Gaz. vol. 146; p. 755.
- Selective controller. R. Symmonds, Jr. No. 917,973; Apr. 13; Sp. p. 2041; Gaz. vol. 141; p. 371.
- Selective mechanism. L. B. Spencer. No. 929,043; July 27; Sp. p. 4836; Gaz. vol. 144; p. 865.
- Selective ringing-key. C. A. Simpson. No. 936,373; Oct. 12; Sp. p. 1616; Gaz. vol. 147; p. 274.
- Selective systems, Sender for. F. G. Agrell. No. 927,469; July 13; Sp. p. 1571; Gaz. vol. 144; p. 283.
- Self-adjusting wrench. R. H. Anderson. No. 942,992; Dec. 14; Sp. p. 2078; Gaz. vol. 149; p. 357.
- Self-cleaning comb. J. J. Rauh. No. 926,766; July 6; Sp. p. 122; Gaz. vol. 144; p. 20.
- Self-cleaning rake. F. W. Wieman. No. 941,292; Nov. 23; Sp. p. 6287; Gaz. vol. 148; p. 1052.
- Self-cleaning tank. C. H. Vogler. No. 934,246; Sept. 14; Sp. p. 2597; Gaz. vol. 146; p. 430.
- Self-fitting key. H. J. Hjorth. No. 921,401; May 11; Sp. p. 2698; Gaz. vol. 142; p. 463.
- Self-leveling table. R. G. MacKinnon. No. 926,665; June 29; Sp. p. 7413; Gaz. vol. 143; p. 1307.
- Self-locking box. E. K. Davis. No. 914,809; Mar. 9; Sp. p. 2422; Gaz. vol. 140; p. 407.
- Self-lubricating wheel. J. F. King. No. 921,412; May 11; Sp. p. 2717; Gaz. vol. 142; p. 467.
- Self-playing-instrument web-controlling mechanism. C. H. Hamilton and G. R. Thayer. No. 937,933; Oct. 26; Sp. p. 4866; Gaz. vol. 147; p. 840.
- Self-playing instruments, Pneumatic action for. E. C. Hiscock. No. 920,744; May 4; Sp. p. 1319; Gaz. vol. 142; p. 214.
- Self-regulating furnace. M. J. and H. B. Farquhar. No. 923,346; June 1; Sp. p. 547; Gaz. vol. 143; p. 79.
- Self-sealing can. J. F. Ross. No. 941,729; Nov. 30; Sp. p. 7219; Gaz. vol. 148; p. 1218.
- Self-serving table. F. E. Brunson. No. 934,993; Sept. 28; Sp. p. 4058; Gaz. vol. 146; p. 729.
- Self-setting trap. W. W. McGarvey. No. 930,558; Aug. 10; Sp. p. 1923; Gaz. vol. 145; p. 339.
- Selling liquids, Automatic machine for. A. Meinert. No. 938,326; Oct. 26; Sp. p. 5717; Gaz. vol. 147; p. 974.
- Selva-holder, Float-filling. J. Hargreaves. No. 915,027; Mar. 9; Sp. p. 2816; Gaz. vol. 140; p. 477.
- Semaphore-controller. T. F. McAndrews and J. E. Bleibtrey. No. 924,489; June 8; Sp. p. 3004; Gaz. vol. 143; p. 490.
- Semaphore, Illuminated. A. D. Archibald. No. 911,640; Feb. 9; Sp. p. 1224; Gaz. vol. 139; p. 232.
- Semaphore-signal. S. H. Harrington. No. 911,588; Feb. 9; Sp. p. 1099; Gaz. vol. 139; p. 214.
- Semaphore-signal. A. G. Clark. No. 917,003; Apr. 6; Sp. p. 77; Gaz. vol. 141; p. 18.
- Semaphore-signal. S. H. Harrington. No. 924,987; June 15; Sp. p. 4062; Gaz. vol. 143; p. 691.
- Semaphore-signal, Electric. G. W. Pettey. No. 913,974; Mar. 2; Sp. p. 684; Gaz. vol. 140; p. 106.
- Semiplastic substances, Instrument for handling. J. Holtzmann. No. 939,693; Nov. 9; Sp. p. 2753; Gaz. vol. 148; p. 454.
- Separating apparatus. H. G. Parker. No. 934,833; Sept. 21; Sp. p. 3735; Gaz. vol. 146; p. 649.
- Separating-machine. G. H. Rich. No. 914,076; Mar. 2; Sp. p. 902; Gaz. vol. 140; p. 141.
- Separating-machines, Automatic wind-regulator for. T. W. McBride. No. 929,157; July 27; Sp. p. 5081; Gaz. vol. 144; p. 903.
- Separating mechanism. J. Loufek. No. 938,256; Oct. 26; Sp. p. 5561; Gaz. vol. 147; p. 950.
- Separating process, Electrostatic. L. I. Blake and L. M. Morscher. No. 924,032; June 8; Sp. p. 2040; Gaz. vol. 143; p. 339.
- Separating solids from liquids, Centrifugal machine for. A. G. Ericsson. No. 921,814; May 18; Sp. p. 3544; Gaz. vol. 142; p. 629.
- Separation of solids from liquids. H. T. Durant. No. 924,043; June 8; Sp. p. 2056; Gaz. vol. 143; p. 342.
- Separator: *See* Air-separator; Bean-separator; Bearing for centrifugal separator; Bow-separator; Centrifugal separator; Chicken-separator; Coal-separator; Coal and slateseparator; Coin-separator; Corn-separator; Cotton-separator; Cotton-seed separator; Cream-separator; Dry separator; Dust-separator; Egg-separator; Electric separator; Funnel-separator; Gas-separator; Gold-separator; Grain-separator; Grain and seed separator; Hydraulic separator; Liquid-separator; Magnetic separator; Milk pasteurizer and separator; Ore-separator; Paddy-separator; Pea-separator; Pneumatic separator; Pulp-separator; Sand and slime separator; Slime-separator; Steam-separator; Steam and liquid separator; Steam and oil separator; Sugar-separator; Vegetable-separator.
- Separator. D. K. Swartwout. No. 915,505; Mar. 16; Sp. p. 3800; Gaz. vol. 140; p. 661.
- Separator. G. H. Dekker. No. 915,832; Mar. 23; Sp. p. 4495; Gaz. vol. 140; p. 797.
- Separator. R. Stein. No. 916,625; Mar. 30; Sp. p. 6041; Gaz. vol. 140; p. 1083.
- Separator. R. W. Jessup. No. 924,358; June 8; Sp. p. 2752; Gaz. vol. 143; p. 448.
- Separator. E. S. Peck. No. 925,834; June 22; Sp. p. 5767; Gaz. vol. 143; p. 998.
- Separator. J. W. Gamble. No. 926,107; June 29; Sp. p. 6325; Gaz. vol. 143; p. 1123.
- Separator. G. W. Christoph. No. 927,712; July 13; Sp. p. 2103; Gaz. vol. 144; p. 365.
- Separator. G. R. Sherwood. No. 927,885; July 13; Sp. p. 2468; Gaz. vol. 144; p. 422.
- Separator. S., Jr., D., and C. Franks. No. 930,853; Aug. 10; Sp. p. 2528; Gaz. vol. 145; p. 436.
- Separator. A. J. Morlock. No. 931,457; Aug. 17; Sp. p. 3874; Gaz. vol. 145; p. 668.
- Separator. G. W. Christoph. No. 934,042; Sept. 14; Sp. p. 2176; Gaz. vol. 146; p. 360.
- Separator. S. von Grabski. No. 934,966; Sept. 21; Sp. p. 3998; Gaz. vol. 146; p. 695.
- Separator. E. H. Frickey. No. 938,657; Nov. 2; Sp. p. 474; Gaz. vol. 148; p. 72.
- Separator. J. M. Seaver. No. 940,076; Nov. 16; Sp. p. 3617; Gaz. vol. 148; p. 617.
- Separator. J. M. Stone. No. 940,212; Nov. 16; Sp. p. 3917; Gaz. vol. 148; p. 665.
- Separator-bowl liner, Cream-. E. R. Bailey and M. A. Ganiard. No. 929,372; July 27; Sp. p. 5570; Gaz. vol. 144; p. 976.
- Separator-feed-governor, Centrifugal-. J. J. Berrigan. No. 924,308; June 8; Sp. p. 2654; Gaz. vol. 143; p. 432.
- Separator-pans, Guide for. L. Meyer. No. 935,041; Sept. 28; Sp. p. 4154; Gaz. vol. 146; p. 744.
- Separator-sieve. H. Shupert. No. 922,732; May 25; Sp. p. 5420; Gaz. vol. 142; p. 956.
- Separator-tank. A. A. Bowser. No. 932,532; Aug. 31; Sp. p. 6134; Gaz. vol. 145; p. 1065.
- Separators, Centrifugal liner for. J. A. Ohlsson. No. 929,697; Aug. 3; Sp. p. 117; Gaz. vol. 145; p. 22.
- Separators, Cream-cooler for centrifugal. S. O. Rice. No. 931,959; Aug. 24; Sp. p. 4974; Gaz. vol. 145; p. 851.
- Septic tank. H. C. Rogers. No. 917,663; Apr. 6; Sp. p. 1358; Gaz. vol. 141; p. 239.
- Septic tank. A. W. Huhsmann. No. 934,917; Sept. 21; Sp. p. 3899; Gaz. vol. 146; p. 677.
- Service-box. H. C. Hubbell. No. 936,536; Oct. 12; Sp. p. 1982; Gaz. vol. 147; p. 327.
- Service-box lid. H. and P. Mueller and A. C. Schuermann. No. 916,354; Mar. 23; Sp. p. 5456; Gaz. vol. 140; p. 968.
- Serving-cup for beverages. T. J. Clement. No. 929,389; July 27; Sp. p. 5596; Gaz. vol. 144; p. 981.
- Setdigger, Onion-. C. C. Smith. No. 915,233; Mar. 16; Sp. p. 3269; Gaz. vol. 140; p. 571.
- Settee bed and couch, Combined. J. Philippon. No. 910,952; Jan. 26; Sp. p. 5138; Gaz. vol. 138; p. 926.
- Setting. H. Walker. No. 921,759; May 18; Sp. p. 3430; Gaz. vol. 142; p. 610.
- Setting tank, Oil-. O. Zolber. No. 909,733; Jan. 12; Sp. p. 2628; Gaz. vol. 138; p. 464.
- Sewage and the like, Apparatus for the bacteriological treatment of. G. A. Lucas. No. 936,464; Oct. 12; Sp. p. 1827; Gaz. vol. 147; p. 304.
- Sewage-discharge system. T. Ferguson. No. 937,784; Oct. 26; Sp. p. 4565; Gaz. vol. 147; p. 790.
- Sewage-ejector. W. McCintock. No. 911,321; Feb. 2; Sp. p. 592; Gaz. vol. 139; p. 101.
- Sewage-treatment apparatus. K. Imhoff. No. 924,664; June 15; Sp. p. 3378; Gaz. vol. 143; p. 582.
- Sewed articles, Seam for. J. P. Weis. No. 921,189; May 11; Sp. p. 2237; Gaz. vol. 142; p. 393.
- Sewed articles, Seam for. H. H. Fefel. No. 930,368; Aug. 10; Sp. p. 1510; Gaz. vol. 145; p. 274.
- Sewer and drain-tile outlet protector. O. A. and J. A. Tenold. No. 929,514; July 27; Sp. p. 5812; Gaz. vol. 144; p. 1020.
- Sewer and gutter pipe connection. W. G. Cramer. No. 916,275; Mar. 23; Sp. p. 5311; Gaz. vol. 140; p. 940.
- Sewer-cleaning apparatus. W. A. Pierce. No. 917,892; Apr. 13; Sp. p. 1872; Gaz. vol. 141; p. 342.
- Sewer construction. J. H. Zinn. No. 932,743; Aug. 31; Sp. p. 6592; Gaz. vol. 145; p. 1136.
- Sewer-construction block. C. H. Slocumb. No. 912,428; Feb. 16; Sp. p. 2898; Gaz. vol. 139; p. 526.
- Sewer-pipe cleaner. S. E. Barwis. No. 916,654; Mar. 30; Sp. p. 6090; Gaz. vol. 140; p. 1091.
- Sewer-pipe machine, Glazed-cement-. J. Thomas. No. 929,898; Aug. 3; Sp. p. 596; Gaz. vol. 145; p. 93.
- Sewer-pipe. C. M. Stratton. No. 909,344; Jan. 12; Sp. p. 1857; Gaz. vol. 138; p. 333.
- Sewer-plug. W. J. Gleason, J. Zeehenelly, and A. L. Blum. No. 922,275; May 18; Sp. p. 4401; Gaz. vol. 142; p. 779.
- Sewer system, Odorless. J. M. Schofield. No. 933,121; Sept. 7; Sp. p. 174; Gaz. vol. 146; p. 29.
- Sewer-trap. B. Oakes. No. 914,068; Mar. 2; Sp. p. 883; Gaz. vol. 140; p. 137.
- Sewer-traps, Testing-plug for. J. F. Christy. No. 939,804; Nov. 9; Sp. p. 2994; Gaz. vol. 148; p. 493.
- Sewer-vent. H. C. Williams. No. 924,711; June 15; Sp. p. 3476; Gaz. vol. 143; p. 598.
- Sewers, Means of cleaning. F. A. Cerruti. No. 928,938; July 27; Sp. p. 4628; Gaz. vol. 144; p. 830.
- Sewers, &c., System for ventilating and purifying. E. F. Head. No. 913,131; Feb. 23; Sp. p. 4345; Gaz. vol. 139; p. 786.



*Alphabetical list of inventions—Continued.*

- Sewing and cutting machines, Throat-plate for buttonhole. D. Noble and J. S. Finch. No. 920,986; May 11; Sp. p. 1815; Gaz. vol. 142; p. 322.
- Sewing and embroidering machine. R. Cornely. No. 940,788; Nov. 23; Sp. p. 5213; Gaz. vol. 143; p. 885.
- Sewing and embroidering machine. R. Cornely. No. 944,599; Dec. 28; Sp. p. 5552; Gaz. vol. 149; p. 962.
- Sewing and gathering machine. J. R. Moffatt. No. 929,686; Aug. 3; Sp. p. 88; Gaz. vol. 145; p. 17.
- Sewing and similar machines, Fabric-supplying device for book-. F. Harrington. No. 933,439; Sept. 7; Sp. p. 892; Gaz. vol. 146; p. 139.
- Sewing-awl. C. A. Stewart. No. 908,708; Jan. 5; Sp. p. 593; Gaz. vol. 138; p. 92.
- Sewing-awl and combination-tool. T. Holmes. No. 916,708; Mar. 30; Sp. p. 6188; Gaz. vol. 140; p. 1108.
- Sewing-cabinet. M. A. Gensler. No. 925,431; June 15; Sp. p. 4900; Gaz. vol. 143; p. 836.
- Sewing gaging mechanism, Shoe-. A. E. Jerram. No. 917,872; Apr. 13; Sp. p. 1834; Gaz. vol. 141; p. 335.
- Sewing knitted fabrics, Machine for. G. Keyser. No. 925,704; June 22; Sp. p. 5453; Gaz. vol. 143; p. 954.
- Sewing lasting-machine. W. Gordon. No. 912,668; Feb. 16; Sp. p. 3391; Gaz. vol. 139; p. 608.
- Sewing-machine. J. C. Goodwin. No. 909,081; Jan. 5; Sp. p. 1323; Gaz. vol. 138; p. 213.
- Sewing-machine. J. P. White. No. 913,598; Feb. 23; Sp. p. 5325; Gaz. vol. 139; p. 943.
- Sewing-machine. A. V. Abercrombie. No. 915,924; Mar. 23; Sp. p. 4660; Gaz. vol. 140; p. 827.
- Sewing-machine. H. E. La Plant. No. 916,333; Mar. 23; Sp. p. 5410; Gaz. vol. 140; p. 961.
- Sewing-machine. J. E. Miller. No. 918,184; Apr. 13; Sp. p. 2471; Gaz. vol. 141; p. 443.
- Sewing-machine. H. Houston. No. 920,141; May 4; Sp. p. 99; Gaz. vol. 142; p. 15.
- Sewing-machine. J. P. Weis. No. 921,188; May 11; Sp. p. 2234; Gaz. vol. 142; p. 393.
- Sewing-machine. V. Sandahl. No. 922,048; May 18; Sp. p. 4031; Gaz. vol. 142; p. 704.
- Sewing-machine. R. G. Woodward. No. 923,750; June 1; Sp. p. 1390; Gaz. vol. 143; p. 217.
- Sewing-machine. J. E. Miller. No. 924,175; June 8; Sp. p. 2358; Gaz. vol. 143; p. 386.
- Sewing-machine. J. S. Johnston and C. A. Powell. No. 924,236; June 8; Sp. p. 2505; Gaz. vol. 143; p. 407.
- Sewing-machine. M. Hemleb. No. 924,903; June 15; Sp. p. 3888; Gaz. vol. 143; p. 662.
- Sewing-machine. L. F. Fales. No. 925,320; June 15; Sp. p. 4688; Gaz. vol. 143; p. 800.
- Sewing-machine. L. Bulasky. No. 929,119; July 27; Sp. p. 5004; Gaz. vol. 144; p. 890.
- Sewing-machine. C. F. Gray. No. 929,761; Aug. 3; Sp. p. 273; Gaz. vol. 145; p. 47.
- Sewing-machine. H. H. Fefel. No. 930,369; Aug. 10; Sp. p. 1511; Gaz. vol. 145; p. 274.
- Sewing-machine. C. M. Horton. No. 932,391; Aug. 24; Sp. p. 5817; Gaz. vol. 145; p. 994.
- Sewing-machine. C. F. Gray. No. 933,032; Aug. 31; Sp. p. 7161; Gaz. vol. 145; p. 1229.
- Sewing-machine. H. Dreist. No. 935,145; Sept. 28; Sp. p. 4373; Gaz. vol. 146; p. 730.
- Sewing-machine. H. F. Keegan. No. 935,662; Oct. 5; Sp. p. 81; Gaz. vol. 147; p. 14.
- Sewing-machine. F. L. Alley. No. 935,726; Oct. 5; Sp. p. 217; Gaz. vol. 147; p. 35.
- Sewing-machine. J. T. Hogan. No. 935,847; Oct. 5; Sp. p. 520; Gaz. vol. 147; p. 76.
- Sewing-machine. T. G. Plant. No. 940,053; Nov. 16; Sp. p. 3557; Gaz. vol. 148; p. 609.
- Sewing-machine. T. G. Plant. No. 940,724; Nov. 23; Sp. p. 5054; Gaz. vol. 148; p. 863.
- Sewing-machine. W. A. Mack. No. 942,090; Dec. 7; Sp. p. 116; Gaz. vol. 149; p. 19.
- Sewing-machine. C. F. and M. T. Goforth. No. 942,899; Dec. 14; Sp. p. 1845; Gaz. vol. 149; p. 325.
- Sewing-machine. A. L. Madison. No. 944,740; Dec. 28; Sp. p. 5843; Gaz. vol. 149; p. 1009.
- Sewing-machine. E. L. Bowers. No. 944,843; Dec. 28; Sp. p. 6072; Gaz. vol. 149; p. 1044.
- Sewing-machine apron. L. C. Mattell. No. 921,720; May 18; Sp. p. 3352; Gaz. vol. 142; p. 597.
- Sewing-machine attachment. E. J. Miller. No. 912,015; Feb. 9; Sp. p. 2037; Gaz. vol. 139; p. 354.
- Sewing-machine attachment. M. J. Eidam. No. 916,126; Mar. 23; Sp. p. 5040; Gaz. vol. 140; p. 893.
- Sewing-machine attachment. M. J. Eidam. No. 923,824; June 8; Sp. p. 1645; Gaz. vol. 143; p. 273.
- Sewing-machine attachment. C. D. Armstrong. No. 931,369; Aug. 17; Sp. p. 3702; Gaz. vol. 145; p. 639.
- Sewing-machine attachment. C. H. Kleuser. No. 935,794; Oct. 5; Sp. p. 402; Gaz. vol. 147; p. 59.
- Sewing-machine attachment. C. Stafford. No. 937,112; Oct. 19; Sp. p. 3129; Gaz. vol. 147; p. 550.
- Sewing-machine attachment, Shoe-. M. H. Sullivan. No. 935,945; Oct. 5; Sp. p. 738; Gaz. vol. 147; p. 109.
- Sewing-machine attachment, Wax-thread-. W. J. Brennan. No. 935,620; Sept. 28; Sp. p. 5332; Gaz. vol. 146; p. 935.
- Sewing-machine belts, Means for and method of displaying. J. H. Boye. No. 912,796; Feb. 16; Sp. p. 3713; Gaz. vol. 139; p. 652.
- Sewing machine, Binding-. J. P. Weis. No. 922,646; May 25; Sp. p. 5246; Gaz. vol. 142; p. 928.
- Sewing-machine, Blindstitch. W. Arbetter. No. 937,273; Oct. 19; Sp. p. 3489; Gaz. vol. 147; p. 603.
- Sewing-machine bobbin-case and tension combined, Rotary-. C. Winkler. No. 934,869; Sept. 21; Sp. p. 3805; Gaz. vol. 146; p. 670.
- Sewing-machine bobbin-thread controller. D. Mills. No. 927,993; July 13; Sp. p. 2680; Gaz. vol. 144; p. 457.
- Sewing machine, Book-. C. J. Rich. No. 924,274; June 8; Sp. p. 2577; Gaz. vol. 143; p. 420.
- Sewing machine, Book-. J. R. Reynolds. No. 930,229; Aug. 3; Sp. p. 1242; Gaz. vol. 145; p. 205.
- Sewing machine, Buttonhole-. C. A. Dahl. No. 911,551; Feb. 2; Sp. p. 1003; Gaz. vol. 139; p. 175.
- Sewing-machine cabinet. T. Kundtz and J. Rehor. No. 910,003; Jan. 19; Sp. p. 3166; Gaz. vol. 138; p. 585.
- Sewing-machine cabinet. R. R. Brown. No. 920,821; May 4; Sp. p. 1477; Gaz. vol. 142; p. 238.
- Sewing-machine cabinet. W. C. Free. No. 943,866; Dec. 21; Sp. p. 3938; Gaz. vol. 149; p. 685.
- Sewing-machine cabinet. W. C. Free. No. 943,867; Dec. 21; Sp. p. 3940; Gaz. vol. 149; p. 685.
- Sewing-machine channel-moistening device. W. H. Hooper. No. 940,691; Nov. 23; Sp. p. 4987; Gaz. vol. 148; p. 851.
- Sewing-machine channeling device. T. G. Plant. No. 940,723; Nov. 23; Sp. p. 5052; Gaz. vol. 148; p. 863.
- Sewing-machine drawers, Spool-holder for. A. Stewart. No. 930,630; Aug. 10; Sp. p. 2076; Gaz. vol. 145; p. 363.
- Sewing-machine embroidering and darning attachment. H. R. Prall. No. 913,847; Mar. 2; Sp. p. 356; Gaz. vol. 140; p. 60.
- Sewing-machine embroidering attachment. D. C. Lee. No. 939,603; Nov. 9; Sp. p. 2566; Gaz. vol. 148; p. 421.
- Sewing-machine feed mechanism. F. W. Merrick. No. 923,062; May 25; Sp. p. 6117; Gaz. vol. 142; p. 1062.
- Sewing-machine feeding mechanism, Hat-sweat-. C. A. Dearborn. No. 910,463; Jan. 19; Sp. p. 4149; Gaz. vol. 138; p. 744.
- Sewing-machine folding and guiding mechanism. C. McNeill. No. 929,692; Aug. 3; Sp. p. 104; Gaz. vol. 145; p. 19.
- Sewing-machine gage. N. Friedman. No. 942,496; Dec. 7; Sp. p. 988; Gaz. vol. 149; p. 159.
- Sewing-machine, Gas-mantle. L. Gearhart. No. 919,846; Apr. 27; Sp. p. 6199; Gaz. vol. 141; p. 1058.
- Sewing machine, Glove and fur. J. F. Wilhelm. No. 921,774; May 18; Sp. p. 3466; Gaz. vol. 142; p. 616.
- Sewing-machine grinding attachment. W. Cox and P. R. Peterson. No. 926,471; June 29; Sp. p. 7048; Gaz. vol. 143; p. 1243.
- Sewing-machine grinding attachment. G. I. Green. No. 931,597; Aug. 17; Sp. p. 4125; Gaz. vol. 145; p. 710.
- Sewing-machine grinding-wheel attachment. J. N. Moore. No. 933,382; Sept. 7; Sp. p. 799; Gaz. vol. 146; p. 123.
- Sewing-machine guide. K. M. Lacey. No. 926,703; June 29; Sp. p. 7487; Gaz. vol. 143; p. 1320.
- Sewing-machine guide attachment. R. Frank. No. 924,157; June 8; Sp. p. 2317; Gaz. vol. 143; p. 380.
- Sewing-machine guide for hat-sweats. J. C. Ringe. No. 938,436; Oct. 26; Sp. p. 5967; Gaz. vol. 147; p. 1012.
- Sewing-machine guiding device. W. A. Fox. No. 915,761; Mar. 23; Sp. p. 4366; Gaz. vol. 140; p. 776.
- Sewing-machine guiding device. W. A. Fox. No. 925,471; June 22; Sp. p. 4983; Gaz. vol. 143; p. 879.
- Sewing-machine guiding device. W. A. Fox. No. 925,472; June 22; Sp. p. 4985; Gaz. vol. 143; p. 879.
- Sewing-machine hemmer. W. R. Parsons. No. 922,440; May 18; Sp. p. 4815; Gaz. vol. 142; p. 833.
- Sewing-machine hemstitching attachment. W. B. Johnson. No. 918,750; Apr. 20; Sp. p. 3723; Gaz. vol. 141; p. 660.
- Sewing machine, Leather-. G. J. Martin. No. 921,426; May 11; Sp. p. 2741; Gaz. vol. 142; p. 472.
- Sewing machine, Lock-stitch. F. W. Merrick. No. 939,152; Nov. 2; Sp. p. 1501; Gaz. vol. 148; p. 243.
- Sewing machine, Lock-stitch. T. G. Plant. No. 940,726; Nov. 23; Sp. p. 5064; Gaz. vol. 148; p. 864.
- Sewing-machine looper mechanism. F. E. Valois. No. 931,352; Aug. 17; Sp. p. 3668; Gaz. vol. 145; p. 633.
- Sewing-machine looper mechanism. J. P. Weis. No. 933,407; Sept. 7; Sp. p. 837; Gaz. vol. 146; p. 130.
- Sewing-machine looper-movement. L. Onderdonk. No. 926,891; July 6; Sp. p. 387; Gaz. vol. 144; p. 62.
- Sewing-machine looper-thread pull-off. R. G. Woodward. No. 909,839; Jan. 12; Sp. p. 2821; Gaz. vol. 138; p. 497.
- Sewing-machine lubricating device. P. J. Black. No. 937,045; Oct. 19; Sp. p. 3006; Gaz. vol. 147; p. 527.
- Sewing-machine motor. J. Albright. No. 926,720; July 6; Sp. p. 1; Gaz. vol. 144; p. 3.
- Sewing-machine, Multiple-needle. P. Diehl and M. Hemleb. No. 936,426; Oct. 12; Sp. p. 1745; Gaz. vol. 147; p. 291.
- Sewing-machine needle. F. Johnson. No. 925,813; June 22; Sp. p. 5720; Gaz. vol. 143; p. 991.
- Sewing-machine needle. W. F. Lewis. No. 937,310; Oct. 19; Sp. p. 3555; Gaz. vol. 147; p. 615.
- Sewing-machine needle and shuttle operating mechanism. E. H. Craige. No. 933,235; Sept. 7; Sp. p. 469; Gaz. vol. 146; p. 73.
- Sewing-machine needle-bars, Silk-feeding hook attachment for. J. C. Haussler. No. 927,795; July 13; Sp. p. 2270; Gaz. vol. 144; p. 392.
- Sewing-machine needle-clamp. J. P. Weis. No. 914,325; Mar. 2; Sp. p. 1427; Gaz. vol. 140; p. 221.
- Sewing-machine needle-guard. R. G. Woodward. No. 934,954; Sept. 21; Sp. p. 3976; Gaz. vol. 146; p. 690.
- Sewing-machine needle-plate. N. Woolsey. No. 922,744; May 25; Sp. p. 5456; Gaz. vol. 142; p. 960.
- Sewing-machine needle-thread take-up and controlling device. F. W. Merrick. No. 930,980; Aug. 10; Sp. p. 2814; Gaz. vol. 145; p. 476.
- Sewing-machine needle-thread take-up and controlling device. F. W. Merrick. No. 933,479; Sept. 7; Sp. p. 1063; Gaz. vol. 146; p. 154.



*Alphabetical list of inventions—Continued.*

- Sewing-machine needles, Presser-foot attachment for. J. H. Titus. No. 936,386; Oct. 12; Sp. p. 1643; Gaz. vol. 147; p. 278.
- Sewing-machine, Overseaming. R. G. Woodward. No. 920,804; May 4; Sp. p. 1441; Gaz. vol. 142; p. 233.
- Sewing-machine, Overseaming. L. Onderdonk. No. 929,698; Aug. 3; Sp. p. 119; Gaz. vol. 145; p. 22.
- Sewing-machine, Overseaming. A. Grieb. No. 931,058; Aug. 17; Sp. p. 3024; Gaz. vol. 145; p. 531.
- Sewing-machine, Overseaming. A. Grieb. No. 932,272; Aug. 24; Sp. p. 5602; Gaz. vol. 145; p. 956.
- Sewing-machine, Overseaming. E. Prazak. No. 939,548; Nov. 9; Sp. p. 2430; Gaz. vol. 148; p. 403.
- Sewing-machine power-transmitter. A. B. Cohn. No. 941,857; Nov. 30; Sp. p. 7509; Gaz. vol. 148; p. 1262.
- Sewing-machine ruffler. W. R. Parsons. No. 928,792; July 20; Sp. p. 4327; Gaz. vol. 144; p. 754.
- Sewing-machine ruffler. W. R. Parsons. No. 931,641; Aug. 17; Sp. p. 4213; Gaz. vol. 145; p. 723.
- Sewing-machine ruffling device. F. M. Card. No. 926,047; June 22; Sp. p. 6184; Gaz. vol. 146; p. 1068.
- Sewing-machine scale attachment. H. Theiss. No. 919,396; Apr. 27; Sp. p. 5229; Gaz. vol. 141; p. 906.
- Sewing-machine seat. A. Eiben and A. Gyureso. No. 918,024; Apr. 13; Sp. p. 2171; Gaz. vol. 141; p. 389.
- Sewing-machine, Shoe-. A. F. Preston. No. 929,707; Aug. 3; Sp. p. 137; Gaz. vol. 145; p. 25.
- Sewing-machine, Shoe-. J. H. and J. B. Ursbruck. No. 924,019; June 8; Sp. p. 2020; Gaz. vol. 143; p. 335.
- Sewing-machine, Shoe-. F. J. Freese. No. 930,542; Aug. 10; Sp. p. 1891; Gaz. vol. 145; p. 334.
- Sewing-machine, Shoe-. F. E. Valois. No. 933,503; Sept. 7; Sp. p. 1126; Gaz. vol. 146; p. 161.
- Sewing-machine, Shoe-. T. G. Plant. No. 940,725; Nov. 23; Sp. p. 5059; Gaz. vol. 148; p. 864.
- Sewing-machine, Shoe-. J. H. and J. B. Ursbruck. No. 944,751; Dec. 28; Sp. p. 5879; Gaz. vol. 149; p. 1013.
- Sewing-machine shuttle. H. A. Bates. No. 908,833; Jan. 5; Sp. p. 841; Gaz. vol. 138; p. 132.
- Sewing-machine shuttle. A. G. R. Williams. No. 932,929; Aug. 31; Sp. p. 6365; Gaz. vol. 145; p. 1196.
- Sewing-machine shuttle. W. Cochran. No. 933,062; Sept. 7; Sp. p. 49; Gaz. vol. 146; p. 9.
- Sewing-machine shuttle and accessories, Rotary. J. O. Huffman. No. 931,610; Aug. 17; Sp. p. 4159; Gaz. vol. 145; p. 714.
- Sewing-machine, Sole-. T. G. Plant. No. 940,054; Nov. 16; Sp. p. 3560; Gaz. vol. 148; p. 609.
- Sewing-machine, Sole-. T. G. Plant. No. 940,055; Nov. 16; Sp. p. 3566; Gaz. vol. 148; p. 610.
- Sewing-machine, Sole-. L. Goddu. No. 940,637; Nov. 16; Sp. p. 4852; Gaz. vol. 148; p. 808.
- Sewing-machine spool-holder. L. Schreiber. No. 912,739; Feb. 16; Sp. p. 3593; Gaz. vol. 139; p. 634.
- Sewing-machine spool-holder. F. C. Luethy. No. 923,867; June 8; Sp. p. 1723; Gaz. vol. 143; p. 287.
- Sewing-machine structure. V. Bloom. No. 943,623; Dec. 14; Sp. p. 3430; Gaz. vol. 149; p. 572.
- Sewing-machine take-up. F. F. Dorsey. No. 923,031; May 25; Sp. p. 6043; Gaz. vol. 142; p. 1052.
- Sewing-machine take-up. B. Phillips. No. 944,498; Dec. 28; Sp. p. 5316; Gaz. vol. 149; p. 926.
- Sewing-machine tape tension device. C. Weiss. No. 914,769; Mar. 9; Sp. p. 2351; Gaz. vol. 140; p. 394.
- Sewing-machine tension device, Overseaming-. R. G. Woodward. No. 920,805; May 4; Sp. p. 1446; Gaz. vol. 142; p. 234.
- Sewing-machine thread-controlling means. J. Maitland. No. 937,705; Oct. 19; Sp. p. 4388; Gaz. vol. 147; p. 745.
- Sewing-machine thread-controlling mechanism. W. M. Ammerman. No. 912,522; Feb. 16; Sp. p. 3100; Gaz. vol. 139; p. 557.
- Sewing-machine thread-controlling mechanism. J. P. Weis. No. 933,408; Sept. 7; Sp. p. 840; Gaz. vol. 146; p. 131.
- Sewing-machine thread-controlling mechanism, Button-. B. T. Leveque. No. 922,786; May 25; Sp. p. 5538; Gaz. vol. 142; p. 973.
- Sewing-machine thread-cutting device. E. H. A. Habbert and J. L. Allen. No. 924,768; June 15; Sp. p. 3598; Gaz. vol. 143; p. 618.
- Sewing-machine thread-guide. S. P. Poulsen. No. 919,210; Apr. 20; Sp. p. 4634; Gaz. vol. 141; p. 809.
- Sewing-machine thread-trimming device. H. W. Slater. No. 908,619; Jan. 5; Sp. p. 394; Gaz. vol. 138; p. 64.
- Sewing-machine thread-waxing device. F. W. Merrick. No. 937,708; Oct. 19; Sp. p. 4393; Gaz. vol. 147; p. 746.
- Sewing-machine trimming mechanism. R. G. Woodward. No. 909,840; Jan. 12; Sp. p. 2822; Gaz. vol. 138; p. 498.
- Sewing-machine trimming mechanism. A. Grieb. No. 933,033; Aug. 31; Sp. p. 7167; Gaz. vol. 145; p. 1230.
- Sewing-machine tuck-creaser. F. W. Beckert. No. 928,838; July 20; Sp. p. 4417; Gaz. vol. 144; p. 769.
- Sewing-machine tuck-creaser. F. W. Beckert. No. 933,819; Sept. 14; Sp. p. 1743; Gaz. vol. 146; p. 289.
- Sewing-machine, Two-reel. D. Flanagan. No. 931,919; Aug. 24; Sp. p. 4886; Gaz. vol. 145; p. 838.
- Sewing-machine-wheel handle, Detachable. H. J. and C. B. Gorton and J. M. Richards. No. 923,354; June 1; Sp. p. 567; Gaz. vol. 143; p. 81.
- Sewing-machine work-clamp-operating device. T. M. McLaughlin and R. R. Hughes, Jr. No. 931,700; Aug. 17; Sp. p. 4381; Gaz. vol. 145; p. 744.
- Sewing-machine work-holder. A. H. De Voe. No. 939,894; Nov. 9; Sp. p. 3171; Gaz. vol. 148; p. 523.
- Sewing-machines and the like, Motor attachment for. C. E. Johnson. No. 933,710; Sept. 7; Sp. p. 1530; Gaz. vol. 146; p. 231.
- Sewing-machines, Center jaw for mantle-. S. Cohn. No. 918,735; Apr. 20; Sp. p. 3696; Gaz. vol. 141; p. 656.
- Sewing-machines, Purling device for buttonhole-. D. Noble and J. S. Finch. No. 920,625; May 4; Sp. p. 1074; Gaz. vol. 142; p. 174.
- Sewing-material holder, Combination. R. A. Walker and J. V. Parrish. No. 942,802; Dec. 7; Sp. p. 1581; Gaz. vol. 149; p. 260.
- Sewing-mechanism and pull-off device therefor, Overseaming-. R. G. Woodward. No. 909,838; Jan. 12; Sp. p. 2817; Gaz. vol. 138; p. 497.
- Sewing or work basket holder. F. H. Wilson. No. 926,798; July 6; Sp. p. 190; Gaz. vol. 144; p. 31.
- Sewing shank-eyed buttons, Machine for. J. Perley. No. 939,161; Nov. 2; Sp. p. 1527; Gaz. vol. 148; p. 247.
- Sewing-thread and making the same. A. Hendry. No. 908,771; Jan. 5; Sp. p. 721; Gaz. vol. 138; p. 112.
- Sewing-tool. C. E. Betts. No. 928,424; July 20; Sp. p. 3585; Gaz. vol. 144; p. 634.
- Shade-adjuster. T. X. Jones. No. 936,779; Oct. 12; Sp. p. 2468; Gaz. vol. 147; p. 411.
- Shade-adjuster gage, Window-. A. H. Hover and A. N. Fries. No. 934,531; Sept. 21; Sp. p. 3137; Gaz. vol. 146; p. 547.
- Shade-adjuster, Window-. E. Lay. No. 918,872; Apr. 20; Sp. p. 3982; Gaz. vol. 141; p. 700.
- Shade-adjuster, Window-. A. N. Fries and A. H. Hover. No. 924,448; June 8; Sp. p. 2913; Gaz. vol. 143; p. 477.
- Shade-adjusting device, Window-. A. R. Barnett and E. PicKel. No. 940,226; Nov. 16; Sp. p. 3942; Gaz. vol. 148; p. 670.
- Shade and curtain bracket. W. G. Keller. No. 910,069; Jan. 19; Sp. p. 3293; Gaz. vol. 138; p. 607.
- Shade and curtain bracket. H. C. Hepler. No. 921,990; May 18; Sp. p. 3919; Gaz. vol. 142; p. 685.
- Shade and curtain bracket, Adjustable. F. W. Drish. No. 919,703; Apr. 27; Sp. p. 5889; Gaz. vol. 141; p. 1011.
- Shade and curtain bracket, Adjustable. R. D. Lewis. No. 920,969; May 11; Sp. p. 1788; Gaz. vol. 142; p. 317.
- Shade and curtain bracket, Combined window. G. W. White. No. 909,353; Jan. 12; Sp. p. 1868; Gaz. vol. 138; p. 335.
- Shade and curtain bracket, Window-. F. Washburn. No. 909,975; Jan. 19; Sp. p. 3115; Gaz. vol. 138; p. 576.
- Shade and curtain fixture. E. E. Palmer. No. 918,692; Apr. 20; Sp. p. 3609; Gaz. vol. 141; p. 640.
- Shade and curtain fixture, Window. O. C. Patton. No. 930,221; Aug. 3; Sp. p. 1229; Gaz. vol. 145; p. 202.
- Shade and curtain guide, Window-. C. F. Linck. No. 927,864; July 13; Sp. p. 2422; Gaz. vol. 144; p. 414.
- Shade and curtain hanger. C. H. Peterson. No. 908,799; Jan. 5; Sp. p. 766; Gaz. vol. 138; p. 121.
- Shade and curtain hanger. S. O. Dougherty. No. 910,273; Jan. 19; Sp. p. 3770; Gaz. vol. 138; p. 679.
- Shade and curtain hanger. F. Davidson. No. 912,084; Feb. 9; Sp. p. 2174; Gaz. vol. 139; p. 376.
- Shade and curtain hanger. J. E. Hopkins. No. 914,276; Mar. 2; Sp. p. 1323; Gaz. vol. 140; p. 205.
- Shade and curtain hanger. E. Fish. No. 926,181; June 23; Sp. p. 6495; Gaz. vol. 143; p. 1149.
- Shade and curtain hanger. D. S. Masden. No. 937,376; Oct. 19; Sp. p. 3702; Gaz. vol. 147; p. 636.
- Shade and curtain holder device, Window. T. S. Flikerd. No. 909,452; Jan. 12; Sp. p. 2059; Gaz. vol. 138; p. 366.
- Shade and curtain-pole bracket, Adjustable. A. L. and C. L. Renzenbrink. No. 928,329; July 20; Sp. p. 3421; Gaz. vol. 144; p. 601.
- Shade and curtain-pole bracket, Window-. C. M. Tichenor and J. Shoup. No. 931,002; Aug. 10; Sp. p. 2881; Gaz. vol. 145; p. 484.
- Shade and curtain-pole fixture. T. Hafer. No. 933,249; Sept. 7; Sp. p. 508; Gaz. vol. 146; p. 77.
- Shade and curtain-pole hanger. J. A. McCaskey. No. 923,989; June 8; Sp. p. 1964; Gaz. vol. 143; p. 326.
- Shade and curtain-pole support. O. A. Wolfe and W. H. Steinmetz. No. 910,625; Jan. 26; Sp. p. 4509; Gaz. vol. 138; p. 822.
- Shade and curtain-pole support, Combined. A. Hudson. No. 930,380; Aug. 10; Sp. p. 1533; Gaz. vol. 145; p. 278.
- Shade and curtain rack. J. M. Coughlan. No. 925,996; June 22; Sp. p. 6080; Gaz. vol. 143; p. 1051.
- Shade and fixtures, Window-. C. V. Hughes and J. M. Robinson. No. 938,148; Oct. 26; Sp. p. 5333; Gaz. vol. 147; p. 912.
- Shade and lace-curtain holder, Combined window. J. O. Anderson. No. 927,090; July 6; Sp. p. 827; Gaz. vol. 144; p. 132.
- Shade and lace-curtain support, Window-. H. F. Cook. No. 939,808; Nov. 9; Sp. p. 3004; Gaz. vol. 148; p. 494.
- Shade and screen for windows, Combination. C. V. Hughes and J. M. Robinson. No. 938,147; Oct. 26; Sp. p. 5330; Gaz. vol. 147; p. 911.
- Shade and socket holder. W. F. Minor and C. W. Heck. No. 924,260; June 8; Sp. p. 2552; Gaz. vol. 143; p. 415.
- Shade and socket holder. W. F. Minor and C. W. Heck. No. 924,261; June 8; Sp. p. 2554; Gaz. vol. 143; p. 416.
- Shade and umbrella holder, Adjustable. A. E. Staples. No. 923,596; June 1; Sp. p. 1088; Gaz. vol. 143; p. 166.
- Shade, Artificial-light. W. J. Gray. No. 920,732; May 4; Sp. p. 1305; Gaz. vol. 142; p. 210.
- Shade-bracket. H. Arnold. No. 923,000; May 25; Sp. p. 5976; Gaz. vol. 142; p. 1042.
- Shade-bracket. H. Wittmann. No. 928,829; July 20; Sp. p. 4398; Gaz. vol. 144; p. 766.
- Shade-bracket. L. E. McCahan. No. 937,842; Oct. 26; Sp. p. 4677; Gaz. vol. 147; p. 810.
- Shade-bracket. M. Vosseler and M. Schlenker. No. 944,642; Dec. 28; Sp. p. 5629; Gaz. vol. 149; p. 977.
- Shade-bracket, Adjustable. J. M. Hamilton. No. 918,849; Apr. 20; Sp. p. 3931; Gaz. vol. 141; p. 692.
- Shade bracket and curtain-pole holder, Window-. P. McNeil. No. 915,208; Mar. 16; Sp. p. 3231; Gaz. vol. 140; p. 564.
- Shade-bracket and curtain-pole support, Combined. R. B. Jeffery. No. 928,522; July 20; Sp. p. 3782; Gaz. vol. 144; p. 664.



*Alphabetical list of inventions—Continued.*

- Shade-bracket and curtain-pole support, Combined. N. Provencher. No. 929,010; July 27; Sp. p. 4778; Gaz. vol. 144; p. 854.
- Shade-bracket and lace-curtain fixture, Combined. A. Witzal. No. 919,988; Apr. 27; Sp. p. 6462; Gaz. vol. 141; p. 1104.
- Shade-bracket, Extension. C. H. Luening. No. 912,700; Feb. 16; Sp. p. 3479; Gaz. vol. 139; p. 620.
- Shade bracket, Window-. B. L. Young and R. Stokes, Jr. No. 913,798; Mar. 2; Sp. p. 256; Gaz. vol. 140; p. 43.
- Shade bracket, Window-. S. H. Smith. No. 931,968; Aug. 24; Sp. p. 4986; Gaz. vol. 145; p. 854.
- Shade bracket, Window-. A. A. Hazard. No. 937,027; Oct. 12; Sp. p. 2963; Gaz. vol. 147; p. 492.
- Shade bracket, Window-. C. W. Brown. No. 942,775; Dec. 7; Sp. p. 1538; Gaz. vol. 149; p. 252.
- Shade carrier, Reversible window-. F. C. Britting. No. 934,790; Sept. 21; Sp. p. 3656; Gaz. vol. 146; p. 635.
- Shade fixture, Adjustable window-. S. D. Baird. No. 915,151; Mar. 16; Sp. p. 3107; Gaz. vol. 140; p. 545.
- Shade fixture, Window-. F. W. Lowe. No. 927,366; July 6; Sp. p. 1325; Gaz. vol. 144; p. 220.
- Shade fixture, Window-. J. A. Churchill. No. 927,947; July 13; Sp. p. 2601; Gaz. vol. 144; p. 443.
- Shade fixture, Window-. D. Hoyt. No. 928,864; July 20; Sp. p. 4469; Gaz. vol. 144; p. 779.
- Shade fixture, Window-. D. Hoyt. No. 928,865; July 20; Sp. p. 4472; Gaz. vol. 144; p. 779.
- Shade-hanger. C. H. White. No. 926,630; June 29; Sp. p. 7344; Gaz. vol. 143; p. 1296.
- Shade-hanger. J. H. Ormsby. No. 930,789; Aug. 10; Sp. p. 2394; Gaz. vol. 145; p. 414.
- Shade-hanger, Adjustable. W. B. Caswell. No. 940,380; Nov. 16; Sp. p. 4320; Gaz. vol. 148; p. 723.
- Shade-hanger, Adjustable window-. J. Osborne. No. 919,630; Apr. 27; Sp. p. 5736; Gaz. vol. 141; p. 987.
- Shade hanger, Window-. B. F. Gindlesperger. No. 941,987; Nov. 30; Sp. p. 7754; Gaz. vol. 148; p. 1306.
- Shade-holder. W. S. Stapley. No. 915,498; Mar. 16; Sp. p. 3786; Gaz. vol. 140; p. 658.
- Shade-holder. L. R. Hopton. No. 921,992; May 18; Sp. p. 3921; Gaz. vol. 142; p. 685.
- Shade-holder. C. N. Weller. No. 932,927; Aug. 31; Sp. p. 6957; Gaz. vol. 145; p. 1195.
- Shade-holder. C. E. Bergh. No. 932,952; Aug. 31; Sp. p. 7001; Gaz. vol. 145; p. 1203.
- Shade-holder. J. H. Dale. No. 936,421; Oct. 12; Sp. p. 1731; Gaz. vol. 147; p. 290.
- Shade-holder. W. A. Painter. No. 942,738; Dec. 7; Sp. p. 1464; Gaz. vol. 149; p. 239.
- Shade-holder, Combination. J. J. Buschor. No. 916,101; Mar. 23; Sp. p. 4995; Gaz. vol. 140; p. 885.
- Shade holder, Window-. I. S. Sherwin. No. 916,375; Mar. 23; Sp. p. 5494; Gaz. vol. 140; p. 975.
- Shade-holding device. C. L. Hopkins. No. 913,138; Feb. 23; Sp. p. 4364; Gaz. vol. 139; p. 788.
- Shade-machine knife, Window-. E. O. Engberg. No. 943,221; Dec. 14; Sp. p. 2553; Gaz. vol. 149; p. 433.
- Shade-roller. C. M. Eveleth. No. 915,166; Mar. 16; Sp. p. 3132; Gaz. vol. 140; p. 549.
- Shade-roller. E. H. Rose. No. 930,233; Aug. 3; Sp. p. 1255; Gaz. vol. 145; p. 207.
- Shade-roller. W. D. Janes. No. 938,383; Oct. 26; Sp. p. 5854; Gaz. vol. 147; p. 993.
- Shade-roller adjustable support. W. J. Winas. No. 909,269; Jan. 12; Sp. p. 1707; Gaz. vol. 138; p. 308.
- Shade-roller and curtain-bracket, Combined. C. Wright. No. 938,934; Nov. 2; Sp. p. 1063; Gaz. vol. 148; p. 168.
- Shade roller and curtain-pole support, Curtain-. J. A. Haas. No. 926,484; June 29; Sp. p. 7070; Gaz. vol. 143; p. 1247.
- Shade-roller attachment. J. V. Washburne. No. 912,636; Feb. 16; Sp. p. 3335; Gaz. vol. 139; p. 598.
- Shade-roller bracket. C. Lindquest. No. 909,195; Jan. 12; Sp. p. 1578; Gaz. vol. 138; p. 284.
- Shade-roller bracket. J. J. Fleming. No. 926,399; June 29; Sp. p. 6921; Gaz. vol. 143; p. 1219.
- Shade-roller bracket. J. M. Rhett. No. 933,111; Sept. 7; Sp. p. 156; Gaz. vol. 146; p. 26.
- Shade-roller bracket, Adjustable. C. E. Sprague. No. 931,514; Aug. 17; Sp. p. 3979; Gaz. vol. 145; p. 686.
- Shade-roller bracket or support, Curtain-. J. M. and H. H. Bryant. No. 940,507; Nov. 16; Sp. p. 4588; Gaz. vol. 148; p. 765.
- Shade-roller bracket, Window-. V. T. Crawford. No. 938,642; Nov. 2; Sp. p. 436; Gaz. vol. 148; p. 67.
- Shade-roller fixture. N. Fleischaker. No. 939,994; Nov. 16; Sp. p. 3408; Gaz. vol. 148; p. 587.
- Shade-roller fixture, Window-. A. McCanne. No. 930,555; Aug. 10; Sp. p. 1917; Gaz. vol. 145; p. 338.
- Shade-roller frame. J. W. Brewer. No. 930,143; Aug. 3; Sp. p. 1102; Gaz. vol. 145; p. 179.
- Shade-roller, Movable. G. F. Kelsey. No. 922,151; May 18; Sp. p. 4224; Gaz. vol. 142; p. 738.
- Shade-roller package, Unit. S. H. Leach. No. 910,697; Jan. 26; Sp. p. 4640; Gaz. vol. 138; p. 844.
- Shade-roller support and shade-guide. F. A. Fagan. No. 934,661; Sept. 21; Sp. p. 3400; Gaz. vol. 146; p. 593.
- Shade-roller support, Curtain-. J. M. and H. H. Bryant. No. 916,265; Mar. 23; Sp. p. 5298; Gaz. vol. 140; p. 938.
- Shade roller, Window-. W. L. Marion. No. 928,060; July 13; Sp. p. 2823; Gaz. vol. 144; p. 481.
- Shade-roller wrench. W. A. Fox. No. 919,566; Apr. 27; Sp. p. 5611; Gaz. vol. 141; p. 964.
- Shade-support, Adjustable. C. P. Westhauser. No. 930,818; Aug. 10; Sp. p. 2455; Gaz. vol. 145; p. 425.
- Shade-support, Adjustable. J. P. Olson. No. 944,632; Dec. 28; Sp. p. 5612; Gaz. vol. 149; p. 974.
- Shade support, Adjustable window-. N. Fleischaker. No. 910,657; Jan. 26; Sp. p. 4575; Gaz. vol. 138; p. 832.
- Shade support, Window-. C. C. Brown. No. 938,207; Oct. 26; Sp. p. 5463; Gaz. vol. 147; p. 933.
- Shade-supporting device. E. H. Lunken. No. 942,967; Dec. 14; Sp. p. 2012; Gaz. vol. 149; p. 348.
- Shade-trimmer. F. Hoff. No. 915,859; Mar. 23; Sp. p. 4538; Gaz. vol. 140; p. 807.
- Shade trimmer, Extensible-. W. S. Waltz. No. 916,638; Mar. 30; Sp. p. 6060; Gaz. vol. 140; p. 1086.
- Shade-winder. B. Price. No. 915,111; Mar. 16; Sp. p. 3016; Gaz. vol. 140; p. 532.
- Shade, Window-. J. M. Patterson. No. 914,180; Mar. 2; Sp. p. 1131; Gaz. vol. 140; p. 177.
- Shade, Window-. E. W. Webb. No. 918,404; Apr. 13; Sp. p. 2920; Gaz. vol. 141; p. 515.
- Shade, Window-. C. M. Martin. No. 924,255; June 8; Sp. p. 2540; Gaz. vol. 143; p. 413.
- Shade, Window-. F. R. Longstreet. No. 926,200; June 29; Sp. p. 6535; Gaz. vol. 143; p. 1156.
- Shades, &c., Slat for porch-. A. C. Hough. No. 932,127; Aug. 24; Sp. p. 5323; Gaz. vol. 145; p. 908.
- Shaft. G. R. Moore. No. 941,087; Nov. 23; Sp. p. 5828; Gaz. vol. 148; p. 984.
- Shaft-aligner. A. S. Church. No. 915,552; Mar. 16; Sp. p. 3907; Gaz. vol. 140; p. 676.
- Shaft-aligner. A. J. Holmes. No. 922,143; May 18; Sp. p. 4206; Gaz. vol. 142; p. 735.
- Shaft-bearing. R. R. Amos. No. 936,286; Oct. 12; Sp. p. 1409; Gaz. vol. 147; p. 244.
- Shaft-bearing oiler attachment. E. C. Dozier. No. 916,423; Mar. 30; Sp. p. 5608; Gaz. vol. 140; p. 1016.
- Shaft-centering device. R. J. Bustillo y Diego. No. 919,819; Apr. 27; Sp. p. 6153; Gaz. vol. 141; p. 1049.
- Shaft-collar. J. McCaffrey. No. 918,078; Apr. 13; Sp. p. 2276; Gaz. vol. 141; p. 408.
- Shaft-collar. G. A. Donahue. No. 922,463; May 25; Sp. p. 4875; Gaz. vol. 142; p. 868.
- Shaft-collars, Making. H. T. Hollowell. No. 926,000; June 22; Sp. p. 6085; Gaz. vol. 143; p. 1052.
- Shaft construction. F. M. Remmek. No. 931,488; Aug. 17; Sp. p. 3933; Gaz. vol. 145; p. 678.
- Shaft-coupling. W. B. Steen. No. 913,992; Mar. 2; Sp. p. 713; Gaz. vol. 140; p. 112.
- Shaft-coupling. D. T. McNiel. No. 915,370; Mar. 16; Sp. p. 3529; Gaz. vol. 140; p. 616.
- Shaft-coupling. F. Bockemeyer. No. 917,842; Apr. 13; Sp. p. 1765; Gaz. vol. 141; p. 324.
- Shaft-coupling. E. C. Griffin. No. 922,579; May 25; Sp. p. 5110; Gaz. vol. 142; p. 906.
- Shaft-coupling. T. A. Edison. No. 923,633; June 1; Sp. p. 1162; Gaz. vol. 143; p. 178.
- Shaft-coupling. G. S. Searle. No. 923,714; June 1; Sp. p. 1324; Gaz. vol. 143; p. 205.
- Shaft-coupling. C. Schmidt. No. 930,495; Aug. 10; Sp. p. 1750; Gaz. vol. 145; p. 316.
- Shaft-coupling. J. P. Golden. No. 934,160; Sept. 14; Sp. p. 2440; Gaz. vol. 146; p. 401.
- Shaft-coupling. J. Newmann. No. 934,622; Sept. 21; Sp. p. 3330; Gaz. vol. 146; p. 579.
- Shaft-coupling. L. A. Westman. No. 938,531; Nov. 2; Sp. p. 209; Gaz. vol. 148; p. 29.
- Shaft-coupling. F. B. Richardson. No. 939,744; Nov. 9; Sp. p. 2861; Gaz. vol. 148; p. 472.
- Shaft-coupling, Antirattler. J. B. Forster. No. 936,230; Oct. 5; Sp. p. 1301; Gaz. vol. 147; p. 199.
- Shaft-coupling, Extensible. R. S. King. No. 918,062; Apr. 13; Sp. p. 2244; Gaz. vol. 141; p. 403.
- Shaft-coupling, Universal. C. Schmidt. No. 916,032; Mar. 23; Sp. p. 4873; Gaz. vol. 140; p. 862.
- Shaft-detacher. C. Murphy. No. 913,539; Feb. 23; Sp. p. 5179; Gaz. vol. 139; p. 923.
- Shaft-detaching device. M. P. Powell, Jr. No. 938,890; Nov. 2; Sp. p. 953; Gaz. vol. 148; p. 152.
- Shaft, Flexible. E. C. Oliver. No. 910,014; Jan. 19; Sp. p. 3189; Gaz. vol. 138; p. 589.
- Shaft, Flexible. W. G. Bambridge. No. 944,228; Dec. 21; Sp. p. 4692; Gaz. vol. 149; p. 804.
- Shaft-hanger. C. W. Levalley. No. 908,684; Jan. 5; Sp. p. 540; Gaz. vol. 138; p. 84.
- Shaft-hanger. C. W. Levalley. No. 910,296; Jan. 19; Sp. p. 3816; Gaz. vol. 138; p. 687.
- Shaft-hanger. A. Q. Wolf. No. 915,645; Mar. 16; Sp. p. 4107; Gaz. vol. 140; p. 710.
- Shaft-hanger. H. La Casse. No. 931,129; Aug. 17; Sp. p. 3166; Gaz. vol. 145; p. 555.
- Shaft-hanger. J. A. Esco. No. 935,593; Sept. 28; Sp. p. 5281; Gaz. vol. 146; p. 926.
- Shaft lifting and supporting device, Automatic. J. D. Ellison. No. 930,539; Aug. 10; Sp. p. 1887; Gaz. vol. 145; p. 333.
- Shaft or journal lubricator. O. C. Knipe. No. 922,155; May 18; Sp. p. 4232; Gaz. vol. 142; p. 739.
- Shaft or pulley coupling. T. White. No. 943,209; Dec. 14; Sp. p. 2530; Gaz. vol. 149; p. 429.
- Shaft, Pneumatically-operated. P. J. Grebel. No. 942,065; Dec. 7; Sp. p. 48; Gaz. vol. 149; p. 10.
- Shaft-reversing means. H. F. Seybert. No. 943,477; Dec. 14; Sp. p. 3101; Gaz. vol. 149; p. 522.
- Shaft reversing mechanism, Rotating-. W. H. Brown. No. 913,195; Feb. 23; Sp. p. 4482; Gaz. vol. 139; p. 807.



*Alphabetical list of inventions—Continued.*

- Shaft-support. G. E. Stansbury and H. H. Hutchison. No. 943,576; Dec. 14; Sp. p. 3295; Gaz. vol. 149; p. 555.
- Shaft support, Buggy-. J. D. McCabe. No. 939,852; Nov. 9; Sp. p. 3082; Gaz. vol. 148; p. 509.
- Shaft-tug. F. T. Overman. No. 913,842; Mar. 2; Sp. p. 341; Gaz. vol. 140; p. 58.
- Shaft-tug and buckle, Combined. S. E. Winslow. No. 910,759; Jan. 26; Sp. p. 4777; Gaz. vol. 138; p. 864.
- Shaft-tug and hitching device. A. Latourelle. No. 925,488; June 22; Sp. p. 5007; Gaz. vol. 143; p. 884.
- Shaft, Wagon-. C. Erickson. No. 921,528; May 11; Sp. p. 2942; Gaz. vol. 142; p. 505.
- Shaft-work detachable hook. C. O. Vowell. No. 913,589; Feb. 23; Sp. p. 5311; Gaz. vol. 139; p. 940.
- Shafts and the like, Sinking. D. E. Moran. No. 923,984; June 8; Sp. p. 1953; Gaz. vol. 143; p. 325.
- Shafts and the like, Sinking. D. E. Moran, J. W. Doty, and E. S. Jarrett. No. 933,776; Sept. 14; Sp. p. 1660; Gaz. vol. 146; p. 275.
- Shafts, Machine for cutting keyways in. L. Goad, Jr., and C. W. Hayes. No. 922,691; May 25; Sp. p. 5343; Gaz. vol. 142; p. 943.
- Shafts, Means for fixing bosses upon their. S. Masters. No. 923,678; June 1; Sp. p. 1246; Gaz. vol. 143; p. 193.
- Shafts, piston-rods, pins, tools, &c., Emery-wheel drive in machines for grinding, turning, and finishing. A. Macdonald. No. 916,174; Mar. 23; Sp. p. 5130; Gaz. vol. 140; p. 908.
- Shafting-lubricating means. J. Barry. No. 919,679; Apr. 27; Sp. p. 5844; Gaz. vol. 141; p. 1003.
- Shaker-screen, Vibrating. L. C. Dibert. No. 941,862; Nov. 30; Sp. p. 7518; Gaz. vol. 148; p. 1264.
- Shampoo-shield. R. Ernest. No. 926,555; June 29; Sp. p. 7191; Gaz. vol. 143; p. 1271.
- Shampoo-tray. C. B. Lovett. No. 928,313; July 20; Sp. p. 3395; Gaz. vol. 144; p. 597.
- Shaper. A. F. Robinson. No. 930,088; Aug. 3; Sp. p. 981; Gaz. vol. 145; p. 159.
- Shaper attachment, Draw-cut-. H. E. Morton. No. 910,216; Jan. 19; Sp. p. 3611; Gaz. vol. 138; p. 656.
- Shaper-guard. J. Loeffler. No. 925,114; June 15; Sp. p. 4312; Gaz. vol. 143; p. 734.
- Shaper-guard. P. Erickson. No. 925,319; June 15; Sp. p. 4686; Gaz. vol. 143; p. 800.
- Shaper-head. G. V. Fellows. No. 938,135; Oct. 26; Sp. p. 5305; Gaz. vol. 147; p. 907.
- Shapers and analogous machines, Supporting mechanism for draw-cut. M. and H. E. Morton. No. 934,088; Sept. 14; Sp. p. 2284; Gaz. vol. 146; p. 375.
- Shaping irregular forms, Machine for. G. M. Hall. No. 934,437; Sept. 21; Sp. p. 2966; Gaz. vol. 146; p. 517.
- Shaping-machine. A. R. Murray. No. 910,840; Jan. 26; Sp. p. 4928; Gaz. vol. 138; p. 889.
- Shaping-machine. L. W. Anderson. No. 916,962; Apr. 6; Sp. p. 5; Gaz. vol. 141; p. 3.
- Shaping-machines, Combined guard and chip-breaker for. W. S. Richards. No. 938,273; Oct. 26; Sp. p. 5589; Gaz. vol. 147; p. 956.
- Sharp pad, Attachable. S. P. Cleary. No. 912,813; Feb. 16; Sp. p. 3740; Gaz. vol. 139; p. 658.
- Sharpener, Dental-instrument. C. Wiethoff. No. 939,365; Nov. 9; Sp. p. 2028; Gaz. vol. 148; p. 342.
- Sharpener, Disk-. F. H. Klenke. No. 939,713; Nov. 9; Sp. p. 2787; Gaz. vol. 148; p. 460.
- Sharpener, Disk-roller. H. W. Ware. No. 929,904; Aug. 3; Sp. p. 608; Gaz. vol. 145; p. 96.
- Sharpener, File-. J. C. Rink. No. 928,331; July 20; Sp. p. 3424; Gaz. vol. 144; p. 601.
- Sharpener for lawn-mowers. E. Merritt. No. 942,578; Dec. 7; Sp. p. 1145; Gaz. vol. 149; p. 186.
- Sharpener for shears and scissors. M. E. Ingram. No. 927,243; July 6; Sp. p. 1121; Gaz. vol. 144; p. 182.
- Sharpener, Knife-. M. L. Hawks. No. 942,172; Dec. 7; Sp. p. 318; Gaz. vol. 149; p. 48.
- Sharpener, Knife-. B. F. Emery. No. 942,959; Dec. 14; Sp. p. 1994; Gaz. vol. 149; p. 345.
- Sharpener, Lawn-mower-cutter. V. Willimack. No. 939,885; Nov. 9; Sp. p. 3152; Gaz. vol. 148; p. 520.
- Sharpener, Mower-knife. A. M. Beecher. No. 930,924; Aug. 10; Sp. p. 2683; Gaz. vol. 145; p. 459.
- Sharpener, Razor-blade. D. M. Perine. No. 936,935; Oct. 12; Sp. p. 2765; Gaz. vol. 147; p. 462.
- Sharpener, Scraper-. J. B. Ackermann. No. 940,773; Nov. 23; Sp. p. 5181; Gaz. vol. 148; p. 880.
- Sharpener, Sickle-. O. A. Haubenreisser. No. 930,284; Aug. 3; Sp. p. 1342; Gaz. vol. 145; p. 222.
- Sharpener, Skate-. D. B. Dow. No. 927,131; July 6; Sp. p. 903; Gaz. vol. 144; p. 145.
- Sharpener, Tool-. G. W. Burt. No. 944,943; Dec. 28; Sp. p. 6264; Gaz. vol. 149; p. 1076.
- Sharpening and honing device, Razor. T. Doswald. No. 939,402; Nov. 9; Sp. p. 2138; Gaz. vol. 148; p. 355.
- Sharpening and shaping machine, Rock-drill. C. J. Smith. No. 919,969; Apr. 27; Sp. p. 6428; Gaz. vol. 141; p. 1098.
- Sharpening apparatus. D. P. O'Brien. No. 929,785; Aug. 3; Sp. p. 324; Gaz. vol. 145; p. 55.
- Sharpening chuck, Drill-steel-. J. H. and H. L. Sinclair. No. 922,349; May 18; Sp. p. 4609; Gaz. vol. 142; p. 801.
- Sharpening device. M. L. Hawks. No. 918,544; Apr. 20; Sp. p. 3233; Gaz. vol. 141; p. 590.
- Sharpening device. J. M. Michaelson. No. 918,689; Apr. 20; Sp. p. 3603; Gaz. vol. 141; p. 638.
- Sharpening device. A. J. Sturm. No. 919,976; Apr. 27; Sp. p. 6443; Gaz. vol. 141; p. 1101.
- Sharpening device, Blade-. W. D. Chapin. No. 939,215; Nov. 9; Sp. p. 1650; Gaz. vol. 148; p. 291.
- Sharpening device, Razor-. A. D. Benson and J. F. Harris. No. 940,298; Nov. 16; Sp. p. 4108; Gaz. vol. 148; p. 694.
- Sharpening device, Razor-. W. H. Dunn. No. 941,564; Nov. 30; Sp. p. 6862; Gaz. vol. 148; p. 1163.
- Sharpening device, Razor-. J. J. Meehan. No. 942,731; Dec. 7; Sp. p. 1448; Gaz. vol. 149; p. 237.
- Sharpening device, Shears-. G. P. Sheffield. No. 932,586; Aug. 31; Sp. p. 6263; Gaz. vol. 145; p. 1083.
- Sharpening knives in cloth-cutting machines, Means for. A. A. Simon. No. 927,689; July 13; Sp. p. 2056; Gaz. vol. 144; p. 357.
- Sharpening lawn-mowers, skates, &c., Machine for. J. L. Kyle. No. 938,494; Nov. 2; Sp. p. 105; Gaz. vol. 148; p. 16.
- Sharpening-machine. A. M. McLeran. No. 909,319; Jan. 12; Sp. p. 1813; Gaz. vol. 138; p. 325.
- Sharpening machine, Coal-puncher-. J. B. and W. W. Word. No. 941,484; Nov. 30; Sp. p. 6709; Gaz. vol. 148; p. 1136.
- Sharpening machine, Disk-. I. F. Adamson. No. 930,263; Aug. 3; Sp. p. 1303; Gaz. vol. 145; p. 215.
- Sharpening machine, Rock-drill-. C. J. Smith. No. 920,093; Apr. 27; Sp. p. 6713; Gaz. vol. 141; p. 1139.
- Sharpening machine, Saw-. G. H. Robinson. No. 928,332; July 20; Sp. p. 3425; Gaz. vol. 144; p. 603.
- Sharpening machine, Saw-. J. P. Hedstrom. No. 930,178; Aug. 3; Sp. p. 1168; Gaz. vol. 145; p. 190.
- Sharpening means, Band-knife-. W. B. Keighley. No. 937,532; Oct. 19; Sp. p. 4058; Gaz. vol. 147; p. 690.
- Sharpening razors and razor-blades, Device for. F. Myers. No. 941,529; Nov. 30; Sp. p. 6796; Gaz. vol. 148; p. 1151.
- Shaving-appliance case. W. L. Clark. No. 942,483; Dec. 7; Sp. p. 956; Gaz. vol. 149; p. 154.
- Shaving-cup. J. Handel. No. 911,873; Feb. 9; Sp. p. 1655; Gaz. vol. 139; p. 307.
- Shaving-cup. J. Hasselbring. No. 913,380; Feb. 23; Sp. p. 4861; Gaz. vol. 139; p. 870.
- Shaving-cup. H. P. Cook. No. 926,805; July 6; Sp. p. 201; Gaz. vol. 144; p. 34.
- Shaving-mug. A. Toffler. No. 940,409; Nov. 16; Sp. p. 4381; Gaz. vol. 148; p. 733.
- Shaving mug and brush casing. O. Liles. No. 940,883; Nov. 23; Sp. p. 5401; Gaz. vol. 148; p. 915.
- Sheaf-carrier. W. Martindale. No. 918,457; Apr. 13; Sp. p. 3031; Gaz. vol. 141; p. 532.
- Shear, punch, and bending machine, Combined. S. Takacs. No. 942,680; Dec. 7; Sp. p. 1342; Gaz. vol. 149; p. 221.
- Shear-table and actuating mechanism therefor. F. C. Biggert, Jr. No. 923,109; May 25; Sp. p. 6214; Gaz. vol. 142; p. 1077.
- Shear-tables, Transfer apparatus for. J. Simpson. No. 944,972; Dec. 28; Sp. p. 6323; Gaz. vol. 149; p. 1086.
- Shears: See Animal-shears; Metal-shears; Metal-cutting shears; Pruning-shears; Rail-splitting shears; Rotary shears; Sheet-metal shears; Trimming-shears.
- Shears. C. W. Sprague. No. 909,470; Jan. 12; Sp. p. 2095; Gaz. vol. 138; p. 373.
- Shears. H. Melchior. No. 910,008; Jan. 19; Sp. p. 3176; Gaz. vol. 138; p. 587.
- Shears. J. M. Sweet and T. J. Clarke. No. 910,607; Jan. 26; Sp. p. 4478; Gaz. vol. 138; p. 816.
- Shears. L. F. Regan. No. 911,680; Feb. 9; Sp. p. 1311; Gaz. vol. 139; p. 244.
- Shears. G. W. Thorsell. No. 912,072; Feb. 16; Sp. p. 4230; Gaz. vol. 139; p. 766.
- Shears. C. S. Shaw and J. M. Spellman. No. 915,491; Mar. 16; Sp. p. 3772; Gaz. vol. 140; p. 656.
- Shears. A. Westerdahl. No. 916,075; Mar. 23; Sp. p. 4945; Gaz. vol. 140; p. 876.
- Shears. J. J. Alvord. No. 918,942; Apr. 20; Sp. p. 4140; Gaz. vol. 141; p. 724.
- Shears. L. T. Slaughter. No. 920,092; Apr. 27; Sp. p. 6712; Gaz. vol. 141; p. 1139.
- Shears. A. J. Baur. No. 938,630; Nov. 2; Sp. p. 416; Gaz. vol. 148; p. 63.
- Shears. J. R. Seairight. No. 942,043; Nov. 30; Sp. p. 7860; Gaz. vol. 148; p. 1324.
- Shears and cigar-tip cutter, Combined. A. L. Tolman. No. 909,347; Jan. 12; Sp. p. 1861; Gaz. vol. 138; p. 333.
- Shears or scissors handle. C. W. Tindall. No. 923,734; June 1; Sp. p. 1360; Gaz. vol. 143; p. 212.
- Shears or scissors, Tension device for. W. M. Bowes. No. 923,621; June 1; Sp. p. 1143; Gaz. vol. 143; p. 175.
- Shears or the like. F. D. Davies. No. 938,042; Oct. 26; Sp. p. 5092; Gaz. vol. 147; p. 876.
- Shears, Slide-cut-. F. S. Polley. No. 915,697; Mar. 16; Sp. p. 4224; Gaz. vol. 140; p. 728.
- Shears tension device. C. W. Sprague. No. 913,575; Feb. 23; Sp. p. 5282; Gaz. vol. 139; p. 935.
- Shears, Tension device for. W. F. Hobbs. No. 932,390; Aug. 24; Sp. p. 5815; Gaz. vol. 145; p. 994.
- Shears, Tension-regulator for. G. A. Ritzler. No. 933,667; Sept. 7; Sp. p. 1432; Gaz. vol. 146; p. 215.
- Shearing device. T. J. Holden. No. 944,555; Dec. 28; Sp. p. 5443; Gaz. vol. 149; p. 946.
- Shearing device, Automatic. M. Szax. No. 909,476; Jan. 12; Sp. p. 2110; Gaz. vol. 138; p. 875.
- Shearing-machine. F. H. Daniels, F. L. Cogill, and J. A. Fray. No. 915,020; Mar. 9; Sp. p. 2804; Gaz. vol. 140; p. 474.
- Shearing-machine. A. E. Peters. No. 923,293; June 1; Sp. p. 420; Gaz. vol. 143; p. 59.
- Shearing-machine. C. M. Palmer. No. 931,141; Aug. 17; Sp. p. 3206; Gaz. vol. 145; p. 559.



*Alphabetical list of inventions—Continued.*

- Shearing-machine. J. M. Maxwell. No. 932,992; Aug. 31; Sp. p. 7069; Gaz. vol. 145; p. 1215.  
 Sheathing, Metallic. L. J. Berg. No. 936,232; Oct. 5; Sp. p. 1303; Gaz. vol. 147; p. 200.  
 Sheave. F. Jones, C. M. Brown, J. S. Fleming, and W. L. McDonald. No. 917,450; Apr. 6; Sp. p. 978; Gaz. vol. 141; p. 170.  
 Sheave-block. J. T. Kelley. No. 926,878; July 6; Sp. p. 361; Gaz. vol. 144; p. 58.  
 Sheave or pulley. J. E. Bordenkircher. No. 936,213; Oct. 5; Sp. p. 1271; Gaz. vol. 147; p. 193.  
 Sheep-shearing machine. W. Silver. No. 912,064; Feb. 23; Sp. p. 4211; Gaz. vol. 139; p. 762.  
 Sheep-shearing machine. S. Abeyta. No. 935,137; Sept. 28; Sp. p. 4361; Gaz. vol. 146; p. 778.  
 Sheet and shelter-tent, Combined bed-. F. Whitney. No. 929,357; July 27; Sp. p. 5546; Gaz. vol. 144; p. 977.  
 Sheet, Bed and crib. E. R. Carswell, Sr. No. 924,733; June 15; Sp. p. 3523; Gaz. vol. 143; p. 605.  
 Sheet-delivering mechanism. R. Miehle. No. 912,395; Feb. 16; Sp. p. 2837; Gaz. vol. 139; p. 515.  
 Sheet-delivery mechanism. G. E. Pancoast. No. 918,084; Apr. 13; Sp. p. 2285; Gaz. vol. 141; p. 410.  
 Sheet-delivery mechanism. E. W. Dean. No. 923,151; June 1; Sp. p. 69; Gaz. vol. 143; p. 11.  
 Sheet-feeder. A. J. Hodge. No. 937,807; Oct. 26; Sp. p. 4604; Gaz. vol. 147; p. 798.  
 Sheet-feeding apparatus. A. B. Dick. No. 929,292; July 27; Sp. p. 5380; Gaz. vol. 144; p. 948.  
 Sheet-feeding apparatus. A. B. Dick. No. 929,293; July 27; Sp. p. 5386; Gaz. vol. 144; p. 948.  
 Sheet-feeding apparatus. A. S. Allen. No. 939,132; Nov. 2; Sp. p. 1567; Gaz. vol. 148; p. 254.  
 Sheet-feeding device. F. B. Davidson. No. 928,637; July 20; Sp. p. 4030; Gaz. vol. 144; p. 702.  
 Sheet-feeding machine. A. Kent. No. 920,154; May 4; Sp. p. 121; Gaz. vol. 142; p. 19.  
 Sheet-feeding machine. R. L. Hanau. No. 935,496; Sept. 28; Sp. p. 5052; Gaz. vol. 146; p. 892.  
 Sheet-feeding machine. B. R. Stickney. No. 939,177; Nov. 2; Sp. p. 1555; Gaz. vol. 148; p. 252.  
 Sheet-feeding machine. H. K. King. No. 942,078; Dec. 7; Sp. p. 79; Gaz. vol. 149; p. 15.  
 Sheet-feeding-machine controlling mechanism. B. Gustafson. No. 912,562; Feb. 16; Sp. p. 3190; Gaz. vol. 139; p. 572.  
 Sheet-feeding-machine pile-elevator. B. Gustafson. No. 912,563; Feb. 16; Sp. p. 3193; Gaz. vol. 139; p. 572.  
 Sheet-feeding mechanism. B. Gustafson. No. 934,608; Sept. 21; Sp. p. 3292; Gaz. vol. 146; p. 573.  
 Sheet-glass-manufacturing apparatus. F. M. Oppermann. No. 915,879; Mar. 23; Sp. p. 4577; Gaz. vol. 140; p. 812.  
 Sheet-insertor. J. L. Brown. No. 923,325; June 1; Sp. p. 499; Gaz. vol. 143; p. 71.  
 Sheet-metal-bending machine. H. C. Grant. No. 935,906; Oct. 5; Sp. p. 654; Gaz. vol. 147; p. 95.  
 Sheet-metal blanks, Gang-die for cutting. D. P. Robinson. No. 915,042; Mar. 9; Sp. p. 2847; Gaz. vol. 140; p. 483.  
 Sheet-metal blanks, Machine for feeding. A. Slaysman, Jr. No. 934,848; Sept. 21; Sp. p. 3770; Gaz. vol. 146; p. 654.  
 Sheet-metal bodies, Apparatus for forming hollow. B. Adriance and A. Calleson. No. 940,914; Nov. 23; Sp. p. 5460; Gaz. vol. 148; p. 925.  
 Sheet-metal bodies, Forming. I. N. Jones. No. 939,702; Nov. 9; Sp. p. 2770; Gaz. vol. 148; p. 457.  
 Sheet-metal box. A. B. Gonsere. No. 915,850; Mar. 23; Sp. p. 4525; Gaz. vol. 140; p. 803.  
 Sheet-metal box. M. Kamenstein. No. 919,878; Apr. 27; Sp. p. 6267; Gaz. vol. 141; p. 1069.  
 Sheet-metal brace. V. Benedek. No. 929,818; Aug. 3; Sp. p. 406; Gaz. vol. 145; p. 67.  
 Sheet-metal caddy for spices and other articles. G. W. Weber and G. F. Miller. No. 911,859; Feb. 9; Sp. p. 1627; Gaz. vol. 139; p. 302.  
 Sheet-metal can. F. Westerbeck. No. 925,061; June 15; Sp. p. 4206; Gaz. vol. 143; p. 716.  
 Sheet-metal can. A. L. Mahony. No. 929,865; Aug. 3; Sp. p. 512; Gaz. vol. 145; p. 83.  
 Sheet-metal can-opener. B. E. Morse. No. 918,074; Apr. 13; Sp. p. 2267; Gaz. vol. 141; p. 407.  
 Sheet-metal can, Seamless or drawn. G. W. Weber. No. 932,597; Aug. 31; Sp. p. 6280; Gaz. vol. 145; p. 1086.  
 Sheet-metal centering, Permanent. J. H. Schlaflly. No. 934,939; Sept. 21; Sp. p. 3951; Gaz. vol. 146; p. 685.  
 Sheet-metal-coating apparatus. S. E. Andress. No. 908,829; Jan. 5; Sp. p. 831; Gaz. vol. 138; p. 130.  
 Sheet-metal container. H. A. Keiner. (Reissue.) No. 12,955; May 11; Sp. p. 3219; Gaz. vol. 142; p. 550.  
 Sheet-metal container. H. A. Keiner. No. 929,446; July 27; Sp. p. 5682; Gaz. vol. 144; p. 998.  
 Sheet-metal-corrugating machine. S. T. Walton. No. 927,302; July 6; Sp. p. 1222; Gaz. vol. 144; p. 201.  
 Sheet-metal culvert. E. E. Norquist. No. 929,784; Aug. 3; Sp. p. 322; Gaz. vol. 145; p. 55.  
 Sheet-metal culvert, Corrugated-. H. W. Harry. No. 943,306; Dec. 14; Sp. p. 2738; Gaz. vol. 149; p. 462.  
 Sheet-metal disinfectant cabinet or holder. E. W. Carnes. No. 910,270; Jan. 19; Sp. p. 3764; Gaz. vol. 138; p. 678.  
 Sheet-metal-expanding machine. L. E. Curtis. No. 917,715; Apr. 6; Sp. p. 1465; Gaz. vol. 141; p. 257.  
 Sheet-metal folder. J. A. Mason. No. 944,566; Dec. 28; Sp. p. 5478; Gaz. vol. 149; p. 951.  
 Sheet metal, Galvanizing. A. Niedringhaus. No. 943,264; Dec. 14; Sp. p. 2648; Gaz. vol. 149; p. 449.  
 Sheet-metal handle. E. Ohnstrand. No. 936,802; Oct. 12; Sp. p. 2513; Gaz. vol. 147; p. 419.  
 Sheet metal into irregular forms, Machine for cutting. A. W. B. S. Rohde. No. 937,865; Oct. 26; Sp. p. 4729; Gaz. vol. 147; p. 818.  
 Sheet metal, Machine for cutting and corrugating. W. H. Cooley. No. 909,066; Jan. 5; Sp. p. 1296; Gaz. vol. 138; p. 208.  
 Sheet metal, Machine for expanding. W. H. Cooley. No. 909,065; Jan. 5; Sp. p. 1293; Gaz. vol. 138; p. 207.  
 Sheet-metal package. W. L. Goodhue. No. 918,998; Apr. 20; Sp. p. 4248; Gaz. vol. 141; p. 742.  
 Sheet-metal packages, Apparatus for forming. A. R. McArthur. No. 936,799; Oct. 12; Sp. p. 2508; Gaz. vol. 147; p. 418.  
 Sheet-metal packer. R. Richards, H. P. Marley, V. Kovacs, and A. Reves. No. 935,549; Sept. 28; Sp. p. 5195; Gaz. vol. 146; p. 911.  
 Sheet-metal panel. A. J. Thornley. No. 944,059; Dec. 21; Sp. p. 4359; Gaz. vol. 149; p. 751.  
 Sheet-metal-paneled structure. J. Brogden. No. 929,824; Aug. 3; Sp. p. 417; Gaz. vol. 145; p. 69.  
 Sheet-metal piling, Interlocking. S. T. Fiero. No. 912,661; Feb. 16; Sp. p. 3374; Gaz. vol. 139; p. 606.  
 Sheet-metal plates, Apparatus for deforming. G. H. Hyde. No. 926,253; June 29; Sp. p. 6645; Gaz. vol. 143; p. 1172.  
 Sheet-metal plates, Cutting disks from. D. P. Robinson. No. 942,104; Dec. 7; Sp. p. 152; Gaz. vol. 149; p. 24.  
 Sheet-metal-pressing die. C. F. Steiber. No. 927,184; July 6; Sp. p. 1003; Gaz. vol. 144; p. 163.  
 Sheet-metal pulley, Sectional. P. D. Skahan. No. 917,173; Apr. 6; Sp. p. 429; Gaz. vol. 141; p. 75.  
 Sheet-metal putty-container. H. Ross. No. 911,163; Feb. 2; Sp. p. 280; Gaz. vol. 139; p. 49.  
 Sheet-metal shears. C. D. Wagner. No. 935,072; Sept. 28; Sp. p. 4226; Gaz. vol. 146; p. 756.  
 Sheet-metal socket. E. L. Watrous. No. 938,403; Oct. 26; Sp. p. 5898; Gaz. vol. 147; p. 1000.  
 Sheet-metal structural element. P. Kühne. No. 917,082; Apr. 6; Sp. p. 245; Gaz. vol. 141; p. 45.  
 Sheet-metal structures, Uniting the component parts of composite. A. F. Rietzel. No. 928,701; July 20; Sp. p. 4152; Gaz. vol. 144; p. 724.  
 Sheet-metal supporting-arm. B. W. Sweet. No. 941,591; Nov. 30; Sp. p. 6916; Gaz. vol. 148; p. 1170.  
 Sheet-metal tank. C. H. Zwernmann. No. 921,780; May 18; Sp. p. 3478; Gaz. vol. 142; p. 618.  
 Sheet-metal vessel. M. Kamenstein. No. 919,360; Apr. 27; Sp. p. 5151; Gaz. vol. 141; p. 893.  
 Sheet-metal vessels, Mechanism for seaming. J. E. Abrams. No. 930,913; Aug. 10; Sp. p. 2664; Gaz. vol. 145; p. 456.  
 Sheet-metal wheel. J. F. Craven. No. 915,829; Mar. 23; Sp. p. 4490; Gaz. vol. 140; p. 796.  
 Sheet-metal wheel, Sectional. J. F. Craven. No. 928,633; July 20; Sp. p. 4021; Gaz. vol. 144; p. 701.  
 Sheet-metal wheels or pulleys, Making. J. F. Craven. No. 926,643; June 29; Sp. p. 7366; Gaz. vol. 143; p. 1300.  
 Sheet-metal-wiring machine. W. R. Magie. No. 943,118; Dec. 14; Sp. p. 2359; Gaz. vol. 149; p. 400.  
 Sheet-metal-working machine. I. J. Shifley. No. 909,341; Jan. 12; Sp. p. 1850; Gaz. vol. 138; p. 332.  
 Sheet-metal-working press. E. Norton and L. C. Krummel. No. 941,806; Nov. 30; Sp. p. 7390; Gaz. vol. 148; p. 1244.  
 Sheet of material, Composite. L. S. and M. Samuel. No. 937,871; Oct. 26; Sp. p. 4740; Gaz. vol. 147; p. 819.  
 Sheet-piling. A. A. Friestedt. No. 912,949; Feb. 16; Sp. p. 3972; Gaz. vol. 139; p. 699.  
 Sheet-piling and means for driving or sinking the same. F. W. Skinner. No. 912,496; Feb. 16; Sp. p. 3031; Gaz. vol. 139; p. 548.  
 Sheet-piling driving-cap. R. B. Woodworth. No. 914,098; Mar. 2; Sp. p. 954; Gaz. vol. 140; p. 150.  
 Sheet-piling or other structural elements, Locking the joints of adjacent units of. F. W. Skinner. No. 912,497; Feb. 16; Sp. p. 3034; Gaz. vol. 139; p. 549.  
 Sheet-registering mechanism. H. K. King. No. 942,079; Dec. 7; Sp. p. 83; Gaz. vol. 149; p. 15.  
 Sheet-steel keg. C. Stollberg. No. 911,085; Feb. 2; Sp. p. 120; Gaz. vol. 139; p. 23.  
 Sheet-steel keg for white lead. C. Stollberg. No. 918,387; Apr. 13; Sp. p. 2890; Gaz. vol. 141; p. 510.  
 Sheet-steel vessel. C. Stollberg. No. 911,084; Feb. 2; Sp. p. 118; Gaz. vol. 139; p. 22.  
 Sheet-supporting device. F. K. Fernald. No. 936,876; Oct. 12; Sp. p. 2657; Gaz. vol. 147; p. 442.  
 Sheets from cores of palm-trees, Making prepared. V. and L. von Alpenburg. No. 917,516; Apr. 6; Sp. p. 1094; Gaz. vol. 141; p. 191.  
 Sheets, Guide mechanism for traveling. L. B. Doman. No. 939,897; Nov. 9; Sp. p. 3178; Gaz. vol. 148; p. 525.  
 Shelf. A. C. Coons. No. 916,273; Mar. 23; Sp. p. 5308; Gaz. vol. 140; p. 940.  
 Shelf, Adjustable. W. Rhodes and R. Maconochie. No. 932,325; Aug. 24; Sp. p. 5705; Gaz. vol. 145; p. 973.  
 Shelf, Adjustable extension-. B. C. Rowell. No. 916,785; Mar. 30; Sp. p. 6323; Gaz. vol. 140; p. 1129.  
 Shelf and brackets, Sheet-metal. A. Dahl. No. 930,734; Aug. 10; Sp. p. 2283; Gaz. vol. 145; p. 397.  
 Shelf, Barrel-. A. Hughes. No. 920,747; May 4; Sp. p. 1323; Gaz. vol. 142; p. 214.  
 Shelf-bracket. R. R. Kintz. No. 938,000; Oct. 26; Sp. p. 5005; Gaz. vol. 147; p. 863.  
 Shelf-bracket, Metal. J. Oppenheimer. No. 920,633; May 4; Sp. p. 1093; Gaz. vol. 142; p. 177.  
 Shelf, Book-. T. C. Petersen and E. A. Ekedahl. No. 921,884; May 18; Sp. p. 3691; Gaz. vol. 142; p. 651.  
 Shelf, Hanging. J. E. Lee. No. 938,596; Nov. 2; Sp. p. 353; Gaz. vol. 148; p. 53.  
 Shelf-locking device. L. M. Stearns. No. 929,723; Aug. 3; Sp. p. 182; Gaz. vol. 145; p. 31.



*Alphabetical list of inventions—Continued.*

- Shelf or case. A. Grundmann. No. 918,039; Apr. 13; Sp. p. 2198; Gaz. vol. 141; p. 395.
- Shelf or stretcher fastener for knockdown tables, &c. W. J. Maddox. No. 924,084; June 8; Sp. p. 2128; Gaz. vol. 143; p. 355.
- Shelving. H. Hoffmann. No. 908,772; Jan. 5; Sp. p. 723; Gaz. vol. 138; p. 112.
- Shelving. J. E. Bales. No. 910,473; Jan. 19; Sp. p. 4178; Gaz. vol. 138; p. 747.
- Shelving. B. L. Waters. No. 910,616; Jan. 26; Sp. p. 4495; Gaz. vol. 138; p. 819.
- Shelving. G. Holden. No. 914,572; Mar. 9; Sp. p. 1930; Gaz. vol. 140; p. 329.
- Shelving. B. L. Waters. No. 914,685; Mar. 9; Sp. p. 2177; Gaz. vol. 140; p. 365.
- Shelving. F. E. Martin. No. 930,302; Aug. 3; Sp. p. 1372; Gaz. vol. 145; p. 228.
- Shelving. M. Taussig. No. 934,475; Sept. 21; Sp. p. 3034; Gaz. vol. 146; p. 529.
- Shelving. G. Holden. No. 940,017; Nov. 16; Sp. p. 3448; Gaz. vol. 148; p. 595.
- Shelving, Adjustable. A. A. Smith. No. 923,721; June 1; Sp. p. 1334; Gaz. vol. 143; p. 208.
- Shelving construction. R. R. Belcher. No. 919,526; Apr. 27; Sp. p. 5530; Gaz. vol. 141; p. 950.
- Shelving, Metallic. G. H. Hurteau. No. 929,308; July 27; Sp. p. 5425; Gaz. vol. 144; p. 954.
- Shelving, Revolving inclosed. J. A. Dextator. No. 935,249; Sept. 28; Sp. p. 4574; Gaz. vol. 146; p. 813.
- Shell. G. A. Muenzenmaier. No. 932,562; Aug. 31; Sp. p. 6200; Gaz. vol. 145; p. 1075.
- Shell-crimper. L. E. Thompson. No. 943,716; Dec. 21; Sp. p. 3646; Gaz. vol. 149; p. 633.
- Shell, Explosive. F. M. Hale. No. 926,558; June 29; Sp. p. 7196; Gaz. vol. 143; p. 1272.
- Shell extractor, Broken-. O. H. Whitman. No. 929,526; July 27; Sp. p. 5830; Gaz. vol. 144; p. 1024.
- Shell-feeding machine. H. A. Stillwell. No. 941,823; Nov. 30; Sp. p. 7434; Gaz. vol. 148; p. 1250.
- Shell for ordnance. C. Heldt. No. 911,008; Jan. 26; Sp. p. 5236; Gaz. vol. 138; p. 943.
- Shell-loading machine. G. L. Riley. No. 930,231; Aug. 3; Sp. p. 1251; Gaz. vol. 145; p. 206.
- Shell or member, Finishing. J. H. Glauber. No. 923,164; June 1; Sp. p. 93; Gaz. vol. 143; p. 15.
- Sheller: See Corn-sheller; Pea-sheller.
- Sherardizing apparatus. A. F. Schroeder. No. 933,725; Sept. 7; Sp. p. 1564; Gaz. vol. 146; p. 237.
- Sherardizing, Plant for. W. C. Robinson. No. 935,058; Sept. 28; Sp. p. 4190; Gaz. vol. 146; p. 751.
- Shield and burner. N. B. Creighton. No. 916,110; Mar. 23; Sp. p. 5010; Gaz. vol. 140; p. 888.
- Shield and form, Armpit-. F. Baldwin. No. 916,385; Mar. 23; Sp. p. 5511; Gaz. vol. 140; p. 978.
- Shifter. J. K. Voorhees and V. V. Speer. No. 935,711; Oct. 5; Sp. p. 190; Gaz. vol. 147; p. 30.
- Shin-guard. C. H. Deane. No. 930,740; Aug. 10; Sp. p. 2302; Gaz. vol. 145; p. 399.
- Shingle and making the same, Metallic. T. M. Lunan and A. C. Rantsch. No. 942,577; Dec. 7; Sp. p. 1143; Gaz. vol. 149; p. 185.
- Shingle-bracket. J. B. Demary. No. 940,957; Nov. 23; Sp. p. 5554; Gaz. vol. 148; p. 940.
- Shingle carrier and support. M. F. Stowe. No. 926,364; June 29; Sp. p. 6862; Gaz. vol. 143; p. 1207.
- Shingle, Composite. C. W. Young. No. 933,221; Sept. 7; Sp. p. 435; Gaz. vol. 146; p. 67.
- Shingle, Interlocking metallic. G. H. Pedlar. No. 943,888; Dec. 21; Sp. p. 3983; Gaz. vol. 149; p. 692.
- Shingle-machine. C. J. Brandt. No. 944,659; Dec. 28; Sp. p. 5662; Gaz. vol. 149; p. 982.
- Shingle or tile, Roofing. F. W. Meyer. No. 931,329; Aug. 17; Sp. p. 3618; Gaz. vol. 145; p. 624.
- Shingle-painting device. A. L. Condray. No. 911,381; Feb. 2; Sp. p. 698; Gaz. vol. 139; p. 120.
- Shingle-stamp and packer's recorder, Automatic. G. A. Ortwein. No. 942,512; Dec. 7; Sp. p. 1017; Gaz. vol. 149; p. 164.
- Shingles from paper-pulp, Apparatus for making. J. T. Collins. No. 928,501; July 20; Sp. p. 3734; Gaz. vol. 144; p. 657.
- Shingling appliance. F. P. Dillon. No. 917,853; Apr. 13; Sp. p. 1787; Gaz. vol. 141; p. 328.
- Shingling-gage. J. I. O'Brien. No. 936,152; Oct. 5; Sp. p. 1162; Gaz. vol. 147; p. 176.
- Shingling-gage, Adjustable. W. H. Smothers. No. 922,053; May 18; Sp. p. 4039; Gaz. vol. 142; p. 706.
- Ship. H. C. Davis. No. 938,645; Nov. 2; Sp. p. 439; Gaz. vol. 148; p. 68.
- Ship-brake. L. Lacoste. No. 917,618; Apr. 6; Sp. p. 1273; Gaz. vol. 141; p. 225.
- Ship-craner. H. Schwartz. No. 938,794; Nov. 2; Sp. p. 734; Gaz. vol. 148; p. 119.
- Ship-cleaning apparatus. W. B. Bust. No. 910,110; Jan. 19; Sp. p. 3371; Gaz. vol. 138; p. 620.
- Ship-cleaning device. W. Martin. No. 936,466; Oct. 12; Sp. p. 1831; Gaz. vol. 147; p. 304.
- Ship construction. T. M. Rees. No. 935,817; Oct. 5; Sp. p. 468; Gaz. vol. 147; p. 67.
- Ship-repair apparatus. J. H. Reinhardt. No. 932,719; Aug. 31; Sp. p. 6548; Gaz. vol. 145; p. 1128.
- Ship-table. J. W. Slade and B. F. Downs. No. 933,351; Sept. 7; Sp. p. 716; Gaz. vol. 146; p. 111.
- Ship-ventilator and connections thereto. E. O. Blackwell. No. 914,230; Mar. 2; Sp. p. 1231; Gaz. vol. 140; p. 192.
- Ships and other bodies, Apparatus for raising submerged. B. Reinier. No. 934,838; Sept. 21; Sp. p. 3746; Gaz. vol. 146; p. 651.
- Ships and other oscillating bodies, Apparatus for minimizing the oscillatory movements of. E. O. Schlick and M. Wurl. No. 944,511; Dec. 28; Sp. p. 5344; Gaz. vol. 149; p. 931.
- Ships and water-currents, Speed-indicator for. A. Mensing. No. 934,824; Sept. 21; Sp. p. 3722; Gaz. vol. 146; p. 646.
- Ships, Apparatus for lowering and hoisting life-boats from the decks of. C. A. Binks. No. 932,101; Aug. 24; Sp. p. 5270; Gaz. vol. 145; p. 898.
- Ship's ballast-tank. G. Simpson. No. 932,722; Aug. 31; Sp. p. 6555; Gaz. vol. 145; p. 1129.
- Ships' boats, Apparatus for lowering. C. Smith. No. 910,594; Jan. 26; Sp. p. 4452; Gaz. vol. 138; p. 812.
- Ships' bottoms, Apparatus for cleaning. F. Kloecking. No. 918,751; Apr. 20; Sp. p. 3724; Gaz. vol. 141; p. 660.
- Ship's draft-indicating means. F. J. Meno. No. 922,933; May 25; Sp. p. 5864; Gaz. vol. 142; p. 1022.
- Ships' helms, Mechanism for indicating and recording the movements of. F. M. Russell and A. J. Jung. No. 941,955; Nov. 30; Sp. p. 7692; Gaz. vol. 148; p. 1296.
- Ships' hulls, Apparatus for cleaning. F. M. Morten. No. 918,890; Apr. 20; Sp. p. 4026; Gaz. vol. 141; p. 706.
- Ships in foggy weather, Device for controlling the course of. J. Orlay. No. 926,822; July 6; Sp. p. 244; Gaz. vol. 144; p. 39.
- Ships or closing holes therein, Means for buoying. J. H. Reinhardt. No. 932,720; Aug. 31; Sp. p. 6550; Gaz. vol. 145; p. 1128.
- Ships' plates, Making composite. G. C. Berg. No. 936,514; Oct. 12; Sp. p. 1939; Gaz. vol. 147; p. 320.
- Shipping-bill register. T. F. Schirmer. No. 940,481; Nov. 16; Sp. p. 4522; Gaz. vol. 148; p. 757.
- Shipping-box. F. C. Mitchell. (Reissue.) No. 12,968; June 1; Sp. p. 1597; Gaz. vol. 143; p. 240.
- Shipping-box. C. L. Allen. No. 932,086; Aug. 24; Sp. p. 5240; Gaz. vol. 145; p. 893.
- Shipping-box. C. A. Lockerman. No. 934,327; Sept. 14; Sp. p. 2746; Gaz. vol. 146; p. 456.
- Shipping-box. M. B. Claff. No. 941,438; Nov. 30; Sp. p. 6610; Gaz. vol. 148; p. 1120.
- Shipping box or crate. C. Fessler. No. 916,852; Mar. 30; Sp. p. 6447; Gaz. vol. 140; p. 1151.
- Shipping box or crate. H. J. Williams. No. 923,395; June 1; Sp. p. 652; Gaz. vol. 143; p. 95.
- Shipping-can. J. H. Chidester. No. 927,223; July 6; Sp. p. 1076; Gaz. vol. 144; p. 175.
- Shipping-case. E. N. Bagley. No. 926,537; June 29; Sp. p. 7161; Gaz. vol. 143; p. 1265.
- Shipping-case. C. C. Hotchkiss. No. 934,810; Sept. 21; Sp. p. 3689; Gaz. vol. 146; p. 641.
- Shipping-case. S. D. Bedell. No. 944,837; Dec. 28; Sp. p. 6053; Gaz. vol. 149; p. 1042.
- Shipping-case, Collapsible. G. O. Helvig and A. W. Ewing. No. 908,862; Jan. 5; Sp. p. 890; Gaz. vol. 138; p. 141.
- Shipping case or box, Knockdown. W. H. Doble. No. 941,014; Nov. 23; Sp. p. 5679; Gaz. vol. 148; p. 959.
- Shipping case or crate. H. H. Buscher. No. 910,497; Jan. 26; Sp. p. 4236; Gaz. vol. 138; p. 779.
- Shipping case, Piano-. P. B. Dahl. No. 910,792; Jan. 26; Sp. p. 4837; Gaz. vol. 138; p. 874.
- Shipping-crate, Collapsible. T. O. Scott and G. W. Styer. No. 915,704; Mar. 16; Sp. p. 4235; Gaz. vol. 140; p. 730.
- Shipping-cylinder cap. C. Schraudenbach. No. 938,793; Nov. 2; Sp. p. 733; Gaz. vol. 148; p. 118.
- Shipping-package. F. F. East. No. 939,232; Nov. 9; Sp. p. 1706; Gaz. vol. 148; p. 296.
- Shipping-package holder. S. Bonini. No. 914,632; Mar. 9; Sp. p. 2050; Gaz. vol. 140; p. 349.
- Shirt. J. J. Rabinovitch. No. 935,687; Oct. 5; Sp. p. 137; Gaz. vol. 147; p. 23.
- Shirt. W. M. Wolfe. No. 937,498; Oct. 19; Sp. p. 3988; Gaz. vol. 147; p. 677.
- Shirt-front. R. W. Springer. No. 944,292; Dec. 28; Sp. p. 4837; Gaz. vol. 149; p. 854.
- Shirt-suspensory. W. S. Wootton. No. 924,870; June 15; Sp. p. 3817; Gaz. vol. 143; p. 652.
- Shirt-waist adjuster. M. W. Sutherland. No. 926,621; June 29; Sp. p. 7331; Gaz. vol. 143; p. 1293.
- Shock-absorber. R. Huber. No. 908,993; Jan. 5; Sp. p. 1160; Gaz. vol. 138; p. 184.
- Shock-absorber. G. R. Rogers. No. 910,863; Jan. 26; Sp. p. 4965; Gaz. vol. 138; p. 896.
- Shock-absorber. T. Veitch. No. 910,974; Jan. 26; Sp. p. 5174; Gaz. vol. 138; p. 932.
- Shock-absorber. J. Krejci. No. 913,392; Feb. 23; Sp. p. 4881; Gaz. vol. 139; p. 874.
- Shock-absorber. H. Muehlhausen, Jr., and J. Thomsen. No. 924,179; June 8; Sp. p. 2367; Gaz. vol. 143; p. 387.
- Shock-absorber. C. H. Newton. No. 924,817; June 15; Sp. p. 3700; Gaz. vol. 143; p. 634.
- Shock-absorber. G. C. Murray. No. 927,810; July 13; Sp. p. 2299; Gaz. vol. 144; p. 397.
- Shock-absorber. P. M. Freer. No. 930,467; Aug. 10; Sp. p. 1700; Gaz. vol. 145; p. 307.
- Shock-absorber. P. M. Freer. No. 930,468; Aug. 10; Sp. p. 1703; Gaz. vol. 145; p. 308.
- Shock-absorber. G. E. Shippey. No. 930,498; Aug. 10; Sp. p. 1756; Gaz. vol. 145; p. 317.
- Shock-absorber. G. Bank. No. 931,671; Aug. 17; Sp. p. 4292; Gaz. vol. 145; p. 733.

*Alphabetical list of inventions—Continued.*

- Shock-absorber. W. B. Knapp. No. 935,525; Sept. 28; Sp. p. 5138; Gaz. vol. 146; p. 902.  
 Shock-absorber. H. C. Turner. No. 941,594; Nov. 30; Sp. p. 6920; Gaz. vol. 148; p. 1171.  
 Shock-absorber. J. H. Friedenwald. No. 942,896; Dec. 14; Sp. p. 1837; Gaz. vol. 149; p. 324.  
 Shock-absorber hanger. E. Flentie. No. 943,671; Dec. 21; Sp. p. 3549; Gaz. vol. 149; p. 617.  
 Shock-absorbing apparatus. W. H. Son. No. 912,749; Feb. 16; Sp. p. 3623; Gaz. vol. 139; p. 637.  
 Shock-absorbing apparatus. M. Houdaille. No. 933,076; Sept. 7; Sp. p. 78; Gaz. vol. 146; p. 13.  
 Shock-absorbing coupling. H. Villiers-Stuart. No. 925,250; June 15; Sp. p. 4561; Gaz. vol. 143; p. 780.  
 Shock-absorbing device. C. H. Foster. No. 918,429; Apr. 13; Sp. p. 2969; Gaz. vol. 141; p. 523.  
 Shock-absorbing mechanism. E. J. Young. No. 916,822; Mar. 30; Sp. p. 6385; Gaz. vol. 140; p. 1142.  
 Shock-absorbing pad. L. R. Nodine. No. 938,504; Nov. 2; Sp. p. 124; Gaz. vol. 148; p. 20.  
 Shock-absorbing wheel. G. F. Crass. No. 935,622; Sept. 28; Sp. p. 5338; Gaz. vol. 146; p. 936.  
 Shock-binder. T. G. Pool. No. 934,012; Sept. 14; Sp. p. 2123; Gaz. vol. 146; p. 351.  
 Shock-carrier. H. Christianson. No. 927,114; July 6; Sp. p. 872; Gaz. vol. 144; p. 140.  
 Shock-deadener. A. Mayesky and H. Boileau. No. 943,119; Dec. 14; Sp. p. 2361; Gaz. vol. 149; p. 401.  
 Shock-lifter. J. P. Smith. No. 919,650; Apr. 27; Sp. p. 5775; Gaz. vol. 141; p. 993.  
 Shock-loader. J. W. Mueller. No. 910,143; Jan. 19; Sp. p. 3441; Gaz. vol. 138; p. 630.  
 Shock-loader. J. B. Schuman. No. 910,423; Jan. 19; Sp. p. 4073; Gaz. vol. 138; p. 729.  
 Shock-loader. E. Pitcher. No. 913,428; Feb. 23; Sp. p. 4950; Gaz. vol. 139; p. 886.  
 Shock-loader. B. F. Wilson. No. 934,587; Sept. 21; Sp. p. 3247; Gaz. vol. 146; p. 566.  
 Shock-loader. J. B. Alexander. No. 934,646; Sept. 21; Sp. p. 3374; Gaz. vol. 146; p. 588.  
 Shock-loader. J. B. Schuman. No. 938,438; Oct. 26; Sp. p. 5974; Gaz. vol. 147; p. 1012.  
 Shock-loader. J. B. Schuman. No. 938,611; Nov. 2; Sp. p. 381; Gaz. vol. 148; p. 57.  
 Shock-loader. J. B. Schuman. No. 939,335; Nov. 9; Sp. p. 1948; Gaz. vol. 148; p. 333.  
 Shock-loader. J. B. Schuman. No. 943,473; Dec. 14; Sp. p. 3091; Gaz. vol. 149; p. 520.  
 Shock-loading apparatus. S. C. English. No. 921,383; May 11; Sp. p. 2661; Gaz. vol. 142; p. 458.  
 Shock-making machine. G. Marshall. No. 937,454; Oct. 19; Sp. p. 3892; Gaz. vol. 147; p. 662.  
 Shock-protector. J. M. Baker. No. 915,927; Mar. 23; Sp. p. 4667; Gaz. vol. 140; p. 828.  
 Shocking apparatus. M. Kelly. No. 924,079; June 8; Sp. p. 2118; Gaz. vol. 143; p. 354.  
 Shoe. J. M. and M. S. Hanson. No. 910,677; Jan. 26; Sp. p. 4604; Gaz. vol. 138; p. 838.  
 Shoe. A. J. Gabriellian. No. 914,485; Mar. 9; Sp. p. 1749; Gaz. vol. 140; p. 300.  
 Shoe. E. Parent. No. 916,585; Mar. 30; Sp. p. 5963; Gaz. vol. 140; p. 1070.  
 Shoe. G. Krieger. No. 917,316; Apr. 6; Sp. p. 739; Gaz. vol. 141; p. 126.  
 Shoe. C. F. Hefflinger. No. 917,602; Apr. 6; Sp. p. 1246; Gaz. vol. 141; p. 219.  
 Shoe. J. G. Miller. No. 921,433; May 11; Sp. p. 2765; Gaz. vol. 142; p. 475.  
 Shoe. J. W. Leach. No. 922,164; May 18; Sp. p. 4244; Gaz. vol. 142; p. 742.  
 Shoe. J. E. Shawhan. No. 923,083; May 25; Sp. p. 6160; Gaz. vol. 142; p. 1069.  
 Shoe. F. A. Critz, Jr. No. 940,856; Nov. 23; Sp. p. 5348; Gaz. vol. 148; p. 907.  
 Shoe and fastener therefor. L. O. Lindberg. No. 931,441; Aug. 17; Sp. p. 3847; Gaz. vol. 145; p. 663.  
 Shoe and sandal, Combined. S. Borchardt. No. 910,778; Jan. 26; Sp. p. 4811; Gaz. vol. 138; p. 870.  
 Shoe and shank-piece therefor. W. H. Baynard. No. 922,379; May 18; Sp. p. 4676; Gaz. vol. 142; p. 811.  
 Shoe attachment, Rubber-. H. J. Bracken and W. C. Ward. No. 914,477; Mar. 9; Sp. p. 1736; Gaz. vol. 140; p. 298.  
 Shoe-block. W. W. Kimble. No. 943,975; Dec. 21; Sp. p. 4178; Gaz. vol. 149; p. 723.  
 Shoe, Brake-. G. M. Beard. No. 915,408; Mar. 16; Sp. p. 3611; Gaz. vol. 140; p. 629.  
 Shoe-calk. M. M. Schaney. No. 919,082; Apr. 20; Sp. p. 4394; Gaz. vol. 141; p. 767.  
 Shoe-calk. J. S. Kerr. No. 925,638; June 22; Sp. p. 5313; Gaz. vol. 143; p. 934.  
 Shoe-cleaner. F. W. Zenke. No. 919,111; Apr. 20; Sp. p. 4448; Gaz. vol. 141; p. 777.  
 Shoe-cleaner. L. R. Van Kirk. No. 921,485; May 11; Sp. p. 2858; Gaz. vol. 142; p. 492.  
 Shoe-cleaner. S. R. Hatfield. No. 933,303; Sept. 7; Sp. p. 615; Gaz. vol. 146; p. 95.  
 Shoe-cleaning device. R. Henry. No. 922,479; May 25; Sp. p. 4901; Gaz. vol. 142; p. 873.  
 Shoe-cleat. L. J. F. Rooney. No. 912,172; Feb. 9; Sp. p. 2337; Gaz. vol. 139; p. 403.  
 Shoe-closer. F. J. Leggett. No. 926,340; June 29; Sp. p. 6818; Gaz. vol. 143; p. 1200.  
 Shoe-dauber. J. L. Weir. No. 936,590; Oct. 12; Sp. p. 2086; Gaz. vol. 147; p. 346.  
 Shoe draw-strap and horn. W. H. Carroll. No. 913,695; Mar. 2; Sp. p. 29; Gaz. vol. 140; p. 8.  
 Shoe-fastener. C. C. Sprinkle. No. 908,704; Jan. 5; Sp. p. 587; Gaz. vol. 138; p. 91.  
 Shoe-fastener. M. E. Jackson. No. 913,012; Feb. 23; Sp. p. 4111; Gaz. vol. 139; p. 746.  
 Shoe-fastener. O. Mauersberger. No. 918,571; Apr. 20; Sp. p. 3282; Gaz. vol. 141; p. 598.  
 Shoe-fastener. C. P. Topliff. No. 922,976; May 25; Sp. p. 5935; Gaz. vol. 142; p. 1035.  
 Shoe-fastener. J. W. Barna and V. Hoffman. No. 931,836; Aug. 24; Sp. p. 4650; Gaz. vol. 145; p. 811.  
 Shoe-fastener. J. Schacht. No. 936,172; Oct. 5; Sp. p. 1204; Gaz. vol. 147; p. 182.  
 Shoe-fastening. A. Assorati. No. 910,771; Jan. 26; Sp. p. 4794; Gaz. vol. 138; p. 867.  
 Shoe-filler. E. R. Taylor. No. 944,112; Dec. 21; Sp. p. 4475; Gaz. vol. 149; p. 769.  
 Shoe for athletes. G. L. Pierce. No. 921,452; May 11; Sp. p. 2795; Gaz. vol. 142; p. 480.  
 Shoe for runners. T. Corcoran. No. 910,505; Jan. 26; Sp. p. 4257; Gaz. vol. 138; p. 782.  
 Shoe for tie-bands, Steel forged. H. Drum. No. 918,296; Apr. 13; Sp. p. 2715; Gaz. vol. 141; p. 481.  
 Shoe-form. G. A. Minzy. No. 927,157; July 6; Sp. p. 947; Gaz. vol. 144; p. 154.  
 Shoe-form. M. B. Reach. No. 927,280; July 6; Sp. p. 1184; Gaz. vol. 144; p. 195.  
 Shoe-form. M. B. Reach. No. 927,281; July 6; Sp. p. 1186; Gaz. vol. 144; p. 195.  
 Shoe-form. E. C. Wright. No. 944,471; Dec. 28; Sp. p. 5237; Gaz. vol. 149; p. 917.  
 Shoe-forming last. E. J. Bliss and E. F. White. No. 914,331; Mar. 2; Sp. p. 1436; Gaz. vol. 140; p. 222.  
 Shoe-guard. J. Oliver. No. 911,673; Feb. 9; Sp. p. 1298; Gaz. vol. 139; p. 242.  
 Shoe-holder. G. E. Hart. No. 914,952; Mar. 9; Sp. p. 2696; Gaz. vol. 140; p. 452.  
 Shoe-jacks, Table attachment for. J. M. Faulk. No. 925,571; June 22; Sp. p. 5174; Gaz. vol. 143; p. 912.  
 Shoe-lace fastener. J. W. Knause. No. 912,690; Feb. 16; Sp. p. 3453; Gaz. vol. 139; p. 616.  
 Shoe-lace fastener. C. J. Anderson. No. 914,628; Mar. 9; Sp. p. 2043; Gaz. vol. 140; p. 348.  
 Shoe-lace guard and cover. F. M. Peters. No. 910,308; Jan. 19; Sp. p. 3834; Gaz. vol. 138; p. 691.  
 Shoe-lace-holding device. W. F. Shults. No. 912,063; Feb. 23; Sp. p. 4210; Gaz. vol. 139; p. 762.  
 Shoe-lace snap-fastener. H. S. Shafer. No. 912,900; Feb. 16; Sp. p. 3883; Gaz. vol. 139; p. 684.  
 Shoe-lace tip. J. Crooks. No. 911,573; Feb. 9; Sp. p. 1073; Gaz. vol. 139; p. 210.  
 Shoe, Laced. M. Kroell. No. 923,860; June 8; Sp. p. 1712; Gaz. vol. 143; p. 284.  
 Shoe-lining. J. Mitchell. No. 912,398; Feb. 16; Sp. p. 2846; Gaz. vol. 139; p. 516.  
 Shoe-lining-cementing machine. O. J. Lear. No. 921,261; May 11; Sp. p. 2382; Gaz. vol. 142; p. 417.  
 Shoe-machine guide. E. Lapointe. No. 928,988; July 27; Sp. p. 4728; Gaz. vol. 144; p. 848.  
 Shoe-machine jack. A. Bates. No. 933,738; Sept. 14; Sp. p. 1604; Gaz. vol. 146; p. 264.  
 Shoe-machine lubricator. W. A. Banfill. No. 908,935; Jan. 5; Sp. p. 1030; Gaz. vol. 138; p. 166.  
 Shoe-nailing machine. V. Sandahl. No. 942,591; Dec. 7; Sp. p. 1165; Gaz. vol. 149; p. 190.  
 Shoe or socket for loggers' falling-boards. A. McNulty. No. 913,423; Feb. 23; Sp. p. 4944; Gaz. vol. 139; p. 884.  
 Shoe-pattern clamp. J. J. Albrecht. No. 915,925; Mar. 23; Sp. p. 4664; Gaz. vol. 140; p. 827.  
 Shoe-polisher. F. Vaughan. No. 933,504; Sept. 7; Sp. p. 1127; Gaz. vol. 146; p. 162.  
 Shoe-polisher. H. J. Friedrich. No. 944,262; Dec. 28; Sp. p. 4771; Gaz. vol. 149; p. 844.  
 Shoe-polishing device. E. F. Stratton. No. 931,000; Aug. 10; Sp. p. 2866; Gaz. vol. 145; p. 483.  
 Shoe-polishing machine. E. F. Symonds and G. W. Brann. No. 910,740; Jan. 26; Sp. p. 4718; Gaz. vol. 138; p. 858.  
 Shoe-polishing machine. F. Magidson. No. 919,903; Apr. 27; Sp. p. 6307; Gaz. vol. 141; p. 1077.  
 Shoe-polishing machine. E. F. Stratton. No. 928,341; July 20; Sp. p. 3439; Gaz. vol. 144; p. 606.  
 Shoe-polishing machine. F. Humphreville. No. 941,845; Nov. 23; Sp. p. 6372; Gaz. vol. 148; p. 1066.  
 Shoe-polishing stand. F. A. Johnson. No. 932,868; Aug. 31; Sp. p. 6846; Gaz. vol. 145; p. 1175.  
 Shoe-polishing stand. E. H. Germandt. No. 944,990; Dec. 28; Sp. p. 6364; Gaz. vol. 149; p. 1092.  
 Shoe-protector. A. Lendgren. No. 912,862; Feb. 16; Sp. p. 3817; Gaz. vol. 139; p. 672.  
 Shoe-pull. T. Ferry. No. 944,424; Dec. 28; Sp. p. 5134; Gaz. vol. 149; p. 901.  
 Shoe-rack. M. C. Ryan. No. 914,313; Mar. 2; Sp. p. 1393; Gaz. vol. 140; p. 217.  
 Shoe-rack. W. F. Atwood. No. 928,419; July 20; Sp. p. 3578; Gaz. vol. 144; p. 633.  
 Shoe-rack. S. Hermann. No. 940,512; Nov. 23; Sp. p. 5257; Gaz. vol. 148; p. 892.  
 Shoe-rack tag-holder. F. A. Putnam. No. 909,219; Jan. 12; Sp. p. 1622; Gaz. vol. 138; p. 291.



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 Shoe rough-rounder. D. H. Hadsell. No. 918,847; Apr. 20; Sp. p. 3922; Gaz. vol. 141; p. 691.  
 Shoe-scraper. E. R. Thiel. No. 932,514; Aug. 31; Sp. p. 6101; Gaz. vol. 145; p. 1058.  
 Shoe, Sewed. G. L. Pierce. No. 939,624; Nov. 9; Sp. p. 2608; Gaz. vol. 148; p. 429.  
 Shoe-shank. P. F. Sherman. No. 931,965; Aug. 24; Sp. p. 4982; Gaz. vol. 145; p. 853.  
 Shoe-shank and ventilator, Combined. J. Ball. No. 935,883; Oct. 5; Sp. p. 612; Gaz. vol. 147; p. 88.  
 Shoe-shank randing and cutting-in machine. C. S. Gooding and S. E. Taft. No. 939,007; Nov. 2; Sp. p. 1199; Gaz. vol. 148; p. 192.  
 Shoe-shank support. A. E. Block. No. 917,841; Apr. 13; Sp. p. 1764; Gaz. vol. 141; p. 324.  
 Shoe-shining apparatus. C. W. Schell. No. 910,419; Jan. 19; Sp. p. 4064; Gaz. vol. 138; p. 728.  
 Shoe-shining bracket. J. C. Walsh. No. 915,516; Mar. 16; Sp. p. 3815; Gaz. vol. 140; p. 664.  
 Shoe-shining stands, Foot-rest for. G. F. Oliver and R. Rousseau. No. 929,475; July 27; Sp. p. 5743; Gaz. vol. 144; p. 1008.  
 Shoe-sole. C. K. Sharood. No. 909,338; Jan. 12; Sp. p. 1844; Gaz. vol. 138; p. 331.  
 Shoe-sole, Antislipping. J. G. Doughty and J. R. Sanford. No. 911,479; Feb. 2; Sp. p. 858; Gaz. vol. 139; p. 151.  
 Shoe, Sporting-. W. J. Riley. No. 931,343; Aug. 17; Sp. p. 3649; Gaz. vol. 145; p. 630.  
 Shoe, Sporting-. D. J. Golden. No. 938,843; Nov. 2; Sp. p. 841; Gaz. vol. 148; p. 135.  
 Shoe, Spring-heel. J. C. Ivory. No. 929,136; July 27; Sp. p. 5046; Gaz. vol. 144; p. 896.  
 Shoe-stitching machine. H. A. Webster. No. 914,091; Mar. 2; Sp. p. 937; Gaz. vol. 140; p. 147.  
 Shoe-strap cutting and folding machine. V. P. Buck. No. 918,958; Apr. 20; Sp. p. 4174; Gaz. vol. 141; p. 729.  
 Shoe-stretcher. C. B. Kosters. No. 911,506; Feb. 2; Sp. p. 916; Gaz. vol. 139; p. 160.  
 Shoe-stretcher. O. E. Stone. No. 918,087; Apr. 20; Sp. p. 4400; Gaz. vol. 141; p. 769.  
 Shoe-stretcher. C. L. Passmore. No. 921,152; May 11; Sp. p. 2150; Gaz. vol. 142; p. 378.  
 Shoe-stretcher. L. D. Jannell. No. 935,988; Oct. 5; Sp. p. 827; Gaz. vol. 147; p. 123.  
 Shoe-stretcher. J. Udenstock. No. 940,092; Nov. 16; Sp. p. 3647; Gaz. vol. 148; p. 622.  
 Shoe-support. W. O. Chase. No. 932,757; Aug. 31; Sp. p. 6632; Gaz. vol. 145; p. 1141.  
 Shoe-support. M. H. Cazier. No. 935,461; Sept. 28; Sp. p. 4990; Gaz. vol. 146; p. 881.  
 Shoe-supporting jack. E. A. Stiggins. No. 935,065; Sept. 28; Sp. p. 4206; Gaz. vol. 146; p. 753.  
 Shoe, Swimming-. L. Marrotte. No. 915,457; Mar. 16; Sp. p. 3710; Gaz. vol. 140; p. 644.  
 Shoe-tree. J. E. Baker. No. 923,479; June 1; Sp. p. 820; Gaz. vol. 143; p. 123.  
 Shoe-tree. J. E. Baker. No. 923,480; June 1; Sp. p. 821; Gaz. vol. 143; p. 123.  
 Shoe-tree. W. D. Wilder and F. W. Cowan. No. 925,736; June 22; Sp. p. 5535; Gaz. vol. 143; p. 965.  
 Shoe-tree. W. L. Kohler. No. 926,750; July 6; Sp. p. 91; Gaz. vol. 144; p. 14.  
 Shoe-tree. A. H. Taft. No. 938,615; Nov. 2; Sp. p. 392; Gaz. vol. 148; p. 59.  
 Shoe-tree. T. G. Redington. No. 941,947; Nov. 30; Sp. p. 7679; Gaz. vol. 148; p. 1293.  
 Shoe-tree. A. H. Taft. (Reissue). No. 13,057; Dec. 14; Sp. p. 3490; Gaz. vol. 149; p. 580.  
 Shoe-tree and display-form, Ventilating. R. H. Boyd. No. 927,104; July 6; Sp. p. 854; Gaz. vol. 144; p. 137.  
 Shoe tree and stretcher, Combined. A. Spielman and A. P. Post. No. 927,083; July 6; Sp. p. 814; Gaz. vol. 144; p. 130.  
 Shoe-tree, Hygienic. R. F. Van Heusen. No. 921,570; May 11; Sp. p. 3019; Gaz. vol. 142; p. 518.  
 Shoe tree or form. G. W. Whaley. No. 910,102; Jan. 19; Sp. p. 3363; Gaz. vol. 138; p. 618.  
 Shoe tree or form. W. H. Baynard. No. 941,353; Nov. 30; Sp. p. 6411; Gaz. vol. 146; p. 1093.  
 Shoe-trimming machine. S. A. Krewson. No. 933,651; Sept. 7; Sp. p. 1390; Gaz. vol. 146; p. 209.  
 Shoe-trimming machine. A. Vose. No. 942,987; Dec. 14; Sp. p. 2049; Gaz. vol. 149; p. 355.  
 Shoe, Turned. H. C. Rowe. No. 937,471; Oct. 19; Sp. p. 3928; Gaz. vol. 147; p. 668.  
 Shoe-turning machine. B. F. Mayo. No. 935,765; Oct. 5; Sp. p. 313; Gaz. vol. 147; p. 49.  
 Shoe-turning machine. A. Eppler. No. 944,260; Dec. 28; Sp. p. 4768; Gaz. vol. 149; p. 843.  
 Shoe-tying device. P. K. Snyder. No. 914,983; Mar. 9; Sp. p. 2743; Gaz. vol. 140; p. 462.  
 Shoe-upper fastener. W. E. Ellis. No. 915,755; Mar. 23; Sp. p. 4357; Gaz. vol. 140; p. 774.  
 Shoe-upper-fastening device. T. F. Whelan. No. 936,391; Oct. 12; Sp. p. 1651; Gaz. vol. 147; p. 280.  
 Shoe-uppers, Fastener for. M. Bergeron. No. 912,226; Feb. 9; Sp. p. 2426; Gaz. vol. 139; p. 419.  
 Shoe-uppers, Means for tying. W. E. Ellis. No. 920,293; May 4; Sp. p. 436; Gaz. vol. 142; p. 67.  
 Shoe-uppers, Means for tying. W. E. Ellis. No. 920,294; May 4; Sp. p. 437; Gaz. vol. 142; p. 67.  
 Shoe, Ventilated. W. Shaw. No. 908,507; Jan. 5; Sp. p. 151; Gaz. vol. 138; p. 27.  
 Shoe, Ventilated. H. A. Hubert. No. 917,297; Apr. 6; Sp. p. 702; Gaz. vol. 141; p. 119.  
 Shoe-ventilator. H. J. Hicks. No. 925,772; June 22; Sp. p. 5635; Gaz. vol. 143; p. 977.  
 Shoes, Machine for pressing and shaping the backs of. C. S. Smith and D. H. Hadsell. No. 939,105; Nov. 2; Sp. p. 1387; Gaz. vol. 148; p. 226.  
 Shoes, Making. S. A. Baker. No. 914,377; Mar. 9; Sp. p. 1551; Gaz. vol. 140; p. 264.  
 Shoes, Making. K. Engel. No. 931,851; Aug. 24; Sp. p. 4709; Gaz. vol. 145; p. 816.  
 Shoemaker's repair-jack. H. F. Marsh. No. 933,192; Sept. 7; Sp. p. 346; Gaz. vol. 146; p. 55.  
 Shoestring-holder. W. Lorenz. No. 917,323; Apr. 6; Sp. p. 758; Gaz. vol. 141; p. 129.  
 Shooting-gallery. O. R. Paine. No. 922,182; May 18; Sp. p. 4286; Gaz. vol. 142; p. 747.  
 Shooting-glasses. C. E. Cook. No. 936,987; Oct. 12; Sp. p. 2868; Gaz. vol. 147; p. 479.  
 Shooting-glasses for marksmen. F. A. Guilford. No. 935,756; Oct. 5; Sp. p. 281; Gaz. vol. 147; p. 45.  
 Shore-protector. J. C. Keller. No. 909,423; Jan. 12; Sp. p. 2006; Gaz. vol. 138; p. 357.  
 Shot-case. S. Bird. No. 931,723; Aug. 24; Sp. p. 4450; Gaz. vol. 145; p. 775.  
 Shotgun choke attachment. O. B. Snow. No. 918,784; Apr. 20; Sp. p. 3780; Gaz. vol. 141; p. 671.  
 Shotguns, Rear sight for. I. N. Lake. No. 910,395; Jan. 19; Sp. p. 4011; Gaz. vol. 138; p. 720.  
 Shoulder and body brace and hose-supporter, Combined. L. J. Knowles. No. 915,191; Mar. 16; Sp. p. 3199; Gaz. vol. 140; p. 559.  
 Shoulder and body brace, Combined. J. D. Orear. No. 911,324; Feb. 2; Sp. p. 699; Gaz. vol. 139; p. 102.  
 Shoulder-brace. L. M. Gamble. No. 918,664; Apr. 20; Sp. p. 3540; Gaz. vol. 141; p. 630.  
 Shoulder-brace. L. C. Accola. No. 918,940; Apr. 20; Sp. p. 4138; Gaz. vol. 141; p. 724.  
 Shoulder-brace. J. Dorf. No. 921,812; May 18; Sp. p. 3539; Gaz. vol. 142; p. 628.  
 Shoulder-brace. J. U. Adams. No. 940,775; Nov. 23; Sp. p. 5183; Gaz. vol. 148; p. 880.  
 Shoulder-brace and garment-supporter, Combined. I. M. Bond. No. 924,034; June 8; Sp. p. 2043; Gaz. vol. 143; p. 339.  
 Shoulder-brace, suspender, and belt apparatus. J. E. Hart. No. 930,283; Aug. 3; Sp. p. 1341; Gaz. vol. 145; p. 221.  
 Shovel: See Agricultural shovel; Cultivator-shovel; Excavating-shovel; Fire-shovel; Power-shovel; Snow-shovel; Steam-shovel.  
 Shovel. A. Schultze. No. 928,283; July 20; Sp. p. 3320; Gaz. vol. 144; p. 586.  
 Shovel. W. Beehler. No. 931,838; Aug. 24; Sp. p. 4684; Gaz. vol. 145; p. 812.  
 Shovel and hoe, Combined. D. B. Hartwell. No. 939,019; Nov. 2; Sp. p. 1227; Gaz. vol. 148; p. 196.  
 Shovel-blade. H. K. Wood. No. 916,820; Mar. 30; Sp. p. 6383; Gaz. vol. 140; p. 1141.  
 Shovel-board and end-gate, Combined. W. A. Giermann. No. 932,980; Aug. 31; Sp. p. 7047; Gaz. vol. 145; p. 1212.  
 Shovel, Excavating-. J. W. Page. No. 916,772; Mar. 30; Sp. p. 6289; Gaz. vol. 140; p. 1125.  
 Shovel for handling coal. C. C. Goulet. No. 919,850; Apr. 27; Sp. p. 6206; Gaz. vol. 141; p. 1059.  
 Shovel, &c., handle. H. S. Urban. No. 937,894; Oct. 26; Sp. p. 4785; Gaz. vol. 147; p. 827.  
 Shovel, Screen-. R. B. Clement. No. 917,251; Apr. 6; Sp. p. 600; Gaz. vol. 141; p. 103.  
 Shovel, spade, and like implement. T. Norris and E. J. Marshall. No. 933,333; Sept. 7; Sp. p. 682; Gaz. vol. 146; p. 105.  
 Shovel, Surface-cultivating. L. B. Penton. No. 911,437; Feb. 2; Sp. p. 794; Gaz. vol. 139; p. 138.  
 Shovel tripping mechanism, Power-. J. H. Freel. No. 931,747; Aug. 24; Sp. p. 4494; Gaz. vol. 145; p. 783.  
 Shovels, Bolster for steam-. W. Sheppard. No. 934,941; Sept. 21; Sp. p. 3955; Gaz. vol. 146; p. 686.  
 Shovels, scoops, &c., Auxiliary handle for. F. Hunt. No. 933,647; Sept. 7; Sp. p. 1385; Gaz. vol. 146; p. 208.  
 Shovels, spades, and other tools, Handle for. F. Skelton. No. 914,678; Mar. 9; Sp. p. 2163; Gaz. vol. 140; p. 363.  
 Shoveling-board. C. A. Fleming. No. 928,116; July 13; Sp. p. 2911; Gaz. vol. 144; p. 497.  
 Shoveling-board. F. Stewart and E. W. Neiswanger. No. 944,109; Dec. 21; Sp. p. 4469; Gaz. vol. 149; p. 768.  
 Shoveling-machine. W. Whaley. No. 940,997; Nov. 23; Sp. p. 5622; Gaz. vol. 148; p. 953.  
 Shoveling-machine. W. Whaley. No. 940,998; Nov. 23; Sp. p. 5632; Gaz. vol. 148; p. 953.  
 Shoveling-machine. W. Whaley. No. 940,999; Nov. 23; Sp. p. 5635; Gaz. vol. 148; p. 953.  
 Show-card stand. J. C. Webb. No. 934,489; Sept. 21; Sp. p. 3066; Gaz. vol. 146; p. 534.  
 Show-case. P. Thompson. No. 908,710; Jan. 5; Sp. p. 596; Gaz. vol. 138; p. 93.  
 Show-case. S. Himmel. No. 910,817; Jan. 26; Sp. p. 4893; Gaz. vol. 139; p. 883.  
 Show-case. A. C. Ucker. No. 912,921; Feb. 16; Sp. p. 3919; Gaz. vol. 139; p. 690.  
 Show-case. W. H. Shinnamon. No. 920,193; May 4; Sp. p. 203; Gaz. vol. 142; p. 32.  
 Show-case. L. Spady. No. 922,820; May 25; Sp. p. 5620; Gaz. vol. 142; p. 984.  
 Show-case. G. C. Wright. No. 926,374; June 29; Sp. p. 6875; Gaz. vol. 143; p. 1209.

*Alphabetical list of inventions—Continued.*

- Show-case. H. B. Joyce. No. 927,052; July 6; Sp. p. 741; Gaz. vol. 144; p. 117.  
 Show-case. J. H. and J. W. Leslie. No. 927,060; July 6; Sp. p. 761; Gaz. vol. 144; p. 121.  
 Show-case. B. W. Ludeman. No. 933,570; Sept. 7; Sp. p. 1243; Gaz. vol. 146; p. 184.  
 Show-case. A. Johnson. No. 940,251; Nov. 16; Sp. p. 3988; Gaz. vol. 148; p. 679.  
 Show-case. J. F. Bierend. No. 940,299; Nov. 16; Sp. p. 4109; Gaz. vol. 148; p. 695.  
 Show-case and receptacle-cover, Combined. C. A. Piepho. No. 935,054; Sept. 28; Sp. p. 4186; Gaz. vol. 146; p. 749.  
 Show-case and stand, Umbrella. A. and D. Davidson. No. 919,545; Apr. 27; Sp. p. 5569; Gaz. vol. 141; p. 956.  
 Show-case, Fly and dust proof. W. R. Kirk. No. 935,850; Oct. 5; Sp. p. 530; Gaz. vol. 147; p. 77.  
 Show-case frame. A. A. Havenhill. No. 936,451; Oct. 12; Sp. p. 1803; Gaz. vol. 147; p. 299.  
 Show-case lighting attachment. T. E. Clark. No. 918,966; Apr. 20; Sp. p. 4191; Gaz. vol. 141; p. 732.  
 Show or display cases, Apparel-support for. L. G. Dodge. No. 935,095; Sept. 28; Sp. p. 4277; Gaz. vol. 146; p. 764.  
 Show-rack. W. H. Hall. No. 928,964; July 27; Sp. p. 4675; Gaz. vol. 144; p. 839.  
 Show-rack. O. B. Winston. No. 938,194; Oct. 26; Sp. p. 5440; Gaz. vol. 147; p. 929.  
 Shower-bath, Portable. F. H. Schmitt. No. 930,093; Aug. 3; Sp. p. 993; Gaz. vol. 145; p. 160.  
 Shower device. G. B. Rheinfrank and G. J. Gilsdorf. No. 931,890; Aug. 24; Sp. p. 4791; Gaz. vol. 145; p. 827.  
 Shrapnel. R. Wille. No. 911,793; Feb. 9; Sp. p. 1506; Gaz. vol. 139; p. 281.  
 Shrapnel. M. Dreger. No. 932,004; Aug. 24; Sp. p. 5065; Gaz. vol. 145; p. 866.  
 Shredding-machine. W. B. Caminade. No. 912,807; Feb. 16; Sp. p. 3732; Gaz. vol. 139; p. 657.  
 Shredding-machine. H. D. Wilson. No. 920,800; May 4; Sp. p. 1434; Gaz. vol. 142; p. 232.  
 Shredding-machine. M. F. Williams and E. H. Frickey. No. 938,734; Nov. 2; Sp. p. 612; Gaz. vol. 148; p. 96.  
 Shunt-motor, Alternating-current. M. C. A. Latour. No. 918,561; Apr. 20; Sp. p. 3262; Gaz. vol. 141; p. 594.  
 Shut-off, Automatic. J. F. Parker. No. 940,050; Nov. 16; Sp. p. 3550; Gaz. vol. 148; p. 607.  
 Shutter attachment. C. Maechler. No. 918,345; Apr. 13; Sp. p. 2809; Gaz. vol. 141; p. 497.  
 Shutter-bower. H. Zimmerman. No. 921,784; May 18; Sp. p. 3483; Gaz. vol. 142; p. 619.  
 Shutter-bower. H. Zimmerman. No. 921,785; May 18; Sp. p. 3485; Gaz. vol. 142; p. 620.  
 Shutter-bower. L. J. Gardner. No. 929,082; July 27; Sp. p. 4926; Gaz. vol. 144; p. 878.  
 Shutter-bower. H. Zimmerman. No. 930,262; Aug. 3; Sp. p. 1302; Gaz. vol. 145; p. 215.  
 Shutter-bower. O. Frank. No. 936,992; Oct. 12; Sp. p. 2875; Gaz. vol. 147; p. 480.  
 Shutter bower and fastener. H. Zimmerman. No. 930,260; Aug. 3; Sp. p. 1300; Gaz. vol. 145; p. 214.  
 Shutter bower and fastener. H. Zimmerman. No. 930,261; Aug. 3; Sp. p. 1301; Gaz. vol. 145; p. 215.  
 Shutter-bower, &c., bracket. H. Zimmerman. No. 914,773; Mar. 9; Sp. p. 2358; Gaz. vol. 140; p. 395.  
 Shutter-bowers, Sill-plate for. H. Zimmerman. No. 921,782; May 18; Sp. p. 3481; Gaz. vol. 142; p. 619.  
 Shutter, curtain, &c., Fireproof. H. L. Fish. No. 916,288; Mar. 23; Sp. p. 5333; Gaz. vol. 140; p. 945.  
 Shutter-fastener. C. L. Betton. No. 915,929; Mar. 23; Sp. p. 4670; Gaz. vol. 140; p. 828.  
 Shutter-fastener. H. Zimmerman. No. 921,781; May 18; Sp. p. 3480; Gaz. vol. 142; p. 619.  
 Shutter fastener or bower. G. Erwin. No. 938,748; Nov. 2; Sp. p. 642; Gaz. vol. 148; p. 102.  
 Shutter, Fire-resisting. L. G. Wilson. No. 917,983; Apr. 13; Sp. p. 2068; Gaz. vol. 141; p. 374.  
 Shutter-hinge. J. B. Wright. No. 917,698; Apr. 6; Sp. p. 1431; Gaz. vol. 141; p. 251.  
 Shutter-lock, Portable. R. D. Benton. No. 909,525; Jan. 12; Sp. p. 2209; Gaz. vol. 138; p. 392.  
 Shutter-operating device. R. D. Merrill. No. 928,992; July 27; Sp. p. 4737; Gaz. vol. 144; p. 849.  
 Shutter-operator. A. Weber. No. 910,248; Jan. 19; Sp. p. 3698; Gaz. vol. 138; p. 670.  
 Shutter-operator. A. Weber. No. 941,899; Nov. 30; Sp. p. 7592; Gaz. vol. 148; p. 1278.  
 Shutter or curtain, Flexible. A. Rush. No. 926,139; June 29; Sp. p. 6390; Gaz. vol. 143; p. 1134.  
 Shutter-releasing device. H. A. Tierney. No. 941,592; Nov. 30; Sp. p. 6917; Gaz. vol. 148; p. 1171.  
 Shutter, Rolling. J. G. Wilson. No. 918,719; Apr. 20; Sp. p. 3666; Gaz. vol. 141; p. 650.  
 Shutter, Window-. F. E. Domscheit. No. 927,777; July 13; Sp. p. 2229; Gaz. vol. 144; p. 386.  
 Shutter worker, Window-. J. Heeter. No. 932,277; Aug. 24; Sp. p. 5614; Gaz. vol. 145; p. 958.  
 Shutters and elevators, &c., Electrical controlling system for rolling or sliding. L. G. Wilson. No. 939,650; Nov. 9; Sp. p. 2659; Gaz. vol. 148; p. 440.  
 Shutters, Mechanism for operating rolling. L. G. Wilson. No. 929,742; Aug. 3; Sp. p. 222; Gaz. vol. 145; p. 39.  
 Shutters or curtains, Roller for flexible. A. Rush. No. 929,885; Aug. 3; Sp. p. 570; Gaz. vol. 145; p. 89.  
 Shutters, Wicket-door for rolling. L. G. Wilson. No. 929,741; Aug. 3; Sp. p. 221; Gaz. vol. 145; p. 38.  
 Shuttle: See Loom-shuttle.  
 Shuttle. W. F. Clayton. No. 912,935; Feb. 16; Sp. p. 3944; Gaz. vol. 139; p. 694.  
 Shuttle. R. Crompton. No. 914,703; Mar. 9; Sp. p. 2213; Gaz. vol. 140; p. 372.  
 Shuttle. J. H. Morin. No. 924,567; June 8; Sp. p. 3155; Gaz. vol. 143; p. 515.  
 Shuttle. E. H. Sawyer. No. 932,180; Aug. 24; Sp. p. 5428; Gaz. vol. 145; p. 925.  
 Shuttle. J. Robinson. No. 934,017; Sept. 14; Sp. p. 2134; Gaz. vol. 146; p. 353.  
 Shuttle. L. Pavia. No. 940,271; Nov. 16; Sp. p. 4023; Gaz. vol. 148; p. 685.  
 Shuttle. P. Gauthier. No. 944,855; Dec. 28; Sp. p. 6105; Gaz. vol. 149; p. 1049.  
 Shuttle attachment. E. W. Ballantine. No. 920,715; May 4; Sp. p. 1281; Gaz. vol. 142; p. 205.  
 Shuttle, Automatically-threading. E. S. Stimpson. No. 933,497; Sept. 7; Sp. p. 1113; Gaz. vol. 146; p. 159.  
 Shuttle, Automatically-threading. E. S. Stimpson. No. 933,728; Sept. 7; Sp. p. 1573; Gaz. vol. 146; p. 238.  
 Shuttle, Automatically-threading. E. S. Stimpson. No. 933,729; Sept. 7; Sp. p. 1580; Gaz. vol. 146; p. 239.  
 Shuttle-check. R. D. Hunt and J. Riley. No. 921,406; May 11; Sp. p. 2706; Gaz. vol. 142; p. 465.  
 Shuttle for holding shells. H. A. Stillwell. No. 918,606; Apr. 20; Sp. p. 3359; Gaz. vol. 141; p. 609.  
 Shuttle mechanism. A. C. Roebuck. No. 909,677; Jan. 12; Sp. p. 2505; Gaz. vol. 138; p. 444.  
 Shuttle mechanism. J. Larsen. No. 927,152; July 6; Sp. p. 939; Gaz. vol. 144; p. 152.  
 Shuttle-operating device. G. Schwabe. No. 928,802; July 20; Sp. p. 4345; Gaz. vol. 144; p. 757.  
 Shuttle-operating mechanism. C. F. Arnold. No. 942,698; Dec. 7; Sp. p. 1374; Gaz. vol. 149; p. 226.  
 Shuttle, Pinless. J. H. Devin. No. 932,450; Aug. 31; Sp. p. 5952; Gaz. vol. 145; p. 1037.  
 Shuttle tension device. H. W. Owen. No. 920,635; May 4; Sp. p. 1097; Gaz. vol. 142; p. 178.  
 Shuttle-threading device. M. Schoenfeld. No. 920,397; May 4; Sp. p. 626; Gaz. vol. 142; p. 100.  
 Shuttle-threading device. J. Jordan. No. 942,263; Dec. 7; Sp. p. 499; Gaz. vol. 149; p. 78.  
 Shuttle-thrower. V. Bachman. No. 921,658; May 18; Sp. p. 3232; Gaz. vol. 142; p. 576.  
 Shuttles, Quill for narrow-ware. F. E. Mellon. No. 933,319; Sept. 7; Sp. p. 645; Gaz. vol. 146; p. 100.  
 Sickle. J. A. Henry. No. 912,375; Feb. 16; Sp. p. 2790; Gaz. vol. 139; p. 508.  
 Sickle. L. A. Hurlburt. No. 931,764; Aug. 24; Sp. p. 4542; Gaz. vol. 145; p. 788.  
 Sickle-bar. W. L. Kibbe. No. 922,291; May 18; Sp. p. 4512; Gaz. vol. 142; p. 783.  
 Sickle-bar attachment. J. McDermott and J. Yanzick, Jr. No. 911,322; Feb. 2; Sp. p. 596; Gaz. vol. 139; p. 101.  
 Sickle-bar drive connection. G. A. Nissen. No. 934,690; Sept. 21; Sp. p. 3460; Gaz. vol. 146; p. 603.  
 Sickle-bar driving mechanism. M. F. Watkins. No. 937,123; Oct. 19; Sp. p. 3157; Gaz. vol. 147; p. 555.  
 Side-delivery rake. W. R. McGawen. No. 908,601; Jan. 5; Sp. p. 359; Gaz. vol. 138; p. 58.  
 Side-delivery rake. E. C. Blackstone and R. E. Watts. No. 935,456; Sept. 28; Sp. p. 4979; Gaz. vol. 146; p. 880.  
 Sidewalk-squeegee. W. Mack. No. 917,330; Apr. 6; Sp. p. 769; Gaz. vol. 141; p. 131.  
 Siding. I. S. Conover. No. 941,358; Nov. 30; Sp. p. 6422; Gaz. vol. 148; p. 1094.  
 Sieve. W. Williamson and G. Blue. No. 932,930; Aug. 31; Sp. p. 6966; Gaz. vol. 145; p. 1196.  
 Sieve. H. F. Frohman. No. 944,549; Dec. 28; Sp. p. 5435; Gaz. vol. 149; p. 945.  
 Sieve, Adjustable. C. Cloz. No. 909,757; Jan. 12; Sp. p. 2670; Gaz. vol. 138; p. 471.  
 Sieve, Adjustable. C. Cloz. No. 925,623; June 22; Sp. p. 5285; Gaz. vol. 143; p. 929.  
 Sieve-hanger. A. P. Troxell. No. 924,296; June 8; Sp. p. 2624; Gaz. vol. 143; p. 427.  
 Sifter. H. W. Case. No. 934,283; Sept. 14; Sp. p. 2655; Gaz. vol. 146; p. 441.  
 Sifter. M. C. Williams. No. 934,492; Sept. 21; Sp. p. 3071; Gaz. vol. 146; p. 535.  
 Sifter. F. E. Boyle. No. 935,354; Sept. 28; Sp. p. 4797; Gaz. vol. 146; p. 848.  
 Sifter. F. E. Boyle. No. 935,355; Sept. 28; Sp. p. 4798; Gaz. vol. 146; p. 848.  
 Sifter, Ash-. C. E. Devermann. No. 915,078; Mar. 16; Sp. p. 2922; Gaz. vol. 140; p. 520.  
 Sifter, Ash-. M. Froesé. No. 917,042; Apr. 6; Sp. p. 162; Gaz. vol. 141; p. 31.  
 Sifter, Ash-. M. J. Garland. No. 920,318; May 4; Sp. p. 471; Gaz. vol. 142; p. 74.  
 Sifter, Ash-. J. Farnworth. No. 931,191; Aug. 17; Sp. p. 3307; Gaz. vol. 145; p. 576.  
 Sifter, Ash-. J. Markey. No. 931,446; Aug. 17; Sp. p. 3855; Gaz. vol. 145; p. 665.  
 Sifter, Ash-. H. L. Hastings. No. 937,799; Oct. 26; Sp. p. 4591; Gaz. vol. 147; p. 796.  
 Sifter, Ash-. C. Wolfenden. No. 938,103; Oct. 26; Sp. p. 5231; Gaz. vol. 147; p. 897.



*Alphabetical list of inventions—Continued.*

- Sifter, Ash-. J. S. Brown. No. 941,613; Nov. 30; Sp. p. 6963; Gaz. vol. 148; p. 1178.  
 Sifter, Ash-. S. J. Phreaner. No. 943,457; Dec. 14; Sp. p. 3061; Gaz. vol. 149; p. 514.  
 Sifter, Automatic ash-. E. J. Deegan. No. 908,970; Jan. 5; Sp. p. 1092; Gaz. vol. 138; p. 176.  
 Sifter, Cinder-. O. R. Durrant and C. E. Bale. No. 910,048; Jan. 19; Sp. p. 3253; Gaz. vol. 138; p. 600.  
 Sifter control device. A. C. Brantingham. No. 933,055; Sept. 7; Sp. p. 29; Gaz. vol. 146; p. 6.  
 Sifter, Flour-. I. M. Newell. No. 909,649; Jan. 12; Sp. p. 2454; Gaz. vol. 138; p. 435.  
 Sifter, Flour-. C. L. Jones. No. 911,130; Feb. 2; Sp. p. 204; Gaz. vol. 139; p. 38.  
 Sifter, Flour-. I. Wantling. No. 927,697; July 13; Sp. p. 2077; Gaz. vol. 144; p. 360.  
 Sifter for pulverulent material. R. G. Neumann. No. 911,258; Feb. 2; Sp. p. 469; Gaz. vol. 139; p. 81.  
 Sifter for stoves, Ash-. C. E. Devermann. No. 930,052; Aug. 3; Sp. p. 910; Gaz. vol. 145; p. 146.  
 Sifter, One-hand. W. J. Gould and A. K. Jensen. No. 911,493; Feb. 2; Sp. p. 884; Gaz. vol. 139; p. 156.  
 Sifter or screen, Adjustable. H. H. Skagen. No. 908,618; Jan. 5; Sp. p. 393; Gaz. vol. 138; p. 64.  
 Sifter-top can or vessel. G. W. Weber. No. 933,507; Sept. 7; Sp. p. 1133; Gaz. vol. 146; p. 163.  
 Sifters, Control device for. A. C. Brantingham. (Reissue.) No. 13,058; Dec. 21; Sp. p. 4734; Gaz. vol. 149; p. 811.  
 Sifting and mixing machine. J. F. Gedge. No. 934,603; Sept. 21; Sp. p. 3281; Gaz. vol. 146; p. 571.  
 Sifting apparatus. E. A. Reed. No. 929,490; July 27; Sp. p. 5765; Gaz. vol. 144; p. 1012.  
 Sifting-screen, Revolving. E. E. Hanna. No. 928,965; July 27; Sp. p. 4677; Gaz. vol. 144; p. 839.  
 Sight. J. T. Peddie. No. 922,945; May 25; Sp. p. 5887; Gaz. vol. 142; p. 1025.  
 Sight. D. Briant. No. 924,729; June 15; Sp. p. 3514; Gaz. vol. 143; p. 604.  
 Sight, Accurate-aim flash-. D. H. Mosteller. No. 933,095; Sept. 7; Sp. p. 123; Gaz. vol. 146; p. 21.  
 Sight-locating device. J. P. Saxe. No. 936,570; Oct. 12; Sp. p. 2051; Gaz. vol. 147; p. 339.  
 Sight-testing apparatus. J. H. Tomlinson. No. 926,035; June 22; Sp. p. 6162; Gaz. vol. 143; p. 1064.  
 Sighting-machine. B. A. Fiske. (Reissue.) No. 12,916; Feb. 9; Sp. p. 2547; Gaz. vol. 139; p. 437.  
 Sign. J. N. May and C. A. Treat. No. 908,591; Jan. 5; Sp. p. 341; Gaz. vol. 138; p. 55.  
 Sign. L. M. Schoonmaker. No. 908,613; Jan. 5; Sp. p. 386; Gaz. vol. 138; p. 62.  
 Sign. J. Igelstroem. No. 911,991; Feb. 9; Sp. p. 1976; Gaz. vol. 139; p. 346.  
 Sign. G. A. Marsh. No. 913,022; Feb. 23; Sp. p. 4126; Gaz. vol. 139; p. 749.  
 Sign. C. S. Neville. No. 914,064; Mar. 2; Sp. p. 880; Gaz. vol. 140; p. 137.  
 Sign. C. E. Malmquist and O. H. Fredrickson. No. 914,493; Mar. 9; Sp. p. 1764; Gaz. vol. 140; p. 302.  
 Sign. S. L. Aarons. No. 914,775; Mar. 9; Sp. p. 2359; Gaz. vol. 140; p. 396.  
 Sign. S. L. Aarons. No. 914,776; Mar. 9; Sp. p. 2361; Gaz. vol. 140; p. 396.  
 Sign. S. L. Aarons. No. 914,777; Mar. 9; Sp. p. 2364; Gaz. vol. 140; p. 397.  
 Sign. F. E. Caywood. No. 915,268; Mar. 16; Sp. p. 3338; Gaz. vol. 140; p. 582.  
 Sign. N. P. Dazey and G. W. Hall. No. 916,116; Mar. 23; Sp. p. 5021; Gaz. vol. 140; p. 889.  
 Sign. F. F. Barratt. No. 917,988; Apr. 13; Sp. p. 2084; Gaz. vol. 141; p. 376.  
 Sign. G. E. Moray. No. 918,888; Apr. 20; Sp. p. 4023; Gaz. vol. 141; p. 706.  
 Sign. O. Boehm. No. 919,310; Apr. 27; Sp. p. 5048; Gaz. vol. 141; p. 876.  
 Sign. R. P. Schriver. No. 924,585; June 8; Sp. p. 3191; Gaz. vol. 143; p. 522.  
 Sign. F. Hauff. No. 926,326; June 29; Sp. p. 6794; Gaz. vol. 143; p. 1195.  
 Sign. C. C. Townsend. No. 926,781; July 6; Sp. p. 145; Gaz. vol. 144; p. 24.  
 Sign. W. J. Bailey. No. 934,381; Sept. 14; Sp. p. 2846; Gaz. vol. 146; p. 475.  
 Sign. L. L. Walrath. No. 935,713; Oct. 5; Sp. p. 192; Gaz. vol. 147; p. 30.  
 Sign. R. C. Lafferty. No. 940,536; Nov. 16; Sp. p. 4644; Gaz. vol. 148; p. 774.  
 Sign. R. J. Lackner. No. 940,697; Nov. 23; Sp. p. 5000; Gaz. vol. 148; p. 853.  
 Sign, Advertising-. J. W. Ellis. No. 931,188; Aug. 17; Sp. p. 3301; Gaz. vol. 145; p. 575.  
 Sign, Advertising-. H. E. Coffin. No. 933,531; Sept. 7; Sp. p. 1176; Gaz. vol. 146; p. 170.  
 Sign, Advertising-. A. Russell. No. 938,710; Nov. 2; Sp. p. 570; Gaz. vol. 148; p. 89.  
 Sign apparatus, Motor-operated. C. Beile. No. 924,416; June 8; Sp. p. 2857; Gaz. vol. 143; p. 467.  
 Sign apparatus, Repeating mechanical. F. A. Rudolph. No. 959,550; Nov. 9; Sp. p. 2435; Gaz. vol. 148; p. 404.  
 Sign-board. A. B. Warfield. No. 930,509; Aug. 10; Sp. p. 1788; Gaz. vol. 145; p. 321.  
 Sign-board structure. M. P. O'Brien. No. 928,534; July 20; Sp. p. 3814; Gaz. vol. 144; p. 668.  
 Sign-boards, Means for securing glass beads on single perforated. R. F. Venner. No. 936,199; Oct. 5; Sp. p. 1248; Gaz. vol. 147; p. 189.  
 Sign, Changeable-letter. J. P. Bryan. No. 919,816; Apr. 27; Sp. p. 6149; Gaz. vol. 141; p. 1048.  
 Sign construction. J. A. Wiedemann. No. 937,670; Oct. 19; Sp. p. 4303; Gaz. vol. 147; p. 733.  
 Sign, Electric. B. E. Salisbury. No. 913,309; Feb. 23; Sp. p. 4718; Gaz. vol. 139; p. 845.  
 Sign, Electric. R. E. Belcher. No. 916,092; Mar. 23; Sp. p. 4978; Gaz. vol. 140; p. 882.  
 Sign, Electric. F. D. Ammen. No. 927,018; July 6; Sp. p. 650; Gaz. vol. 144; p. 106.  
 Sign, Electric. T. E. Murray. No. 935,803; Oct. 5; Sp. p. 420; Gaz. vol. 147; p. 62.  
 Sign, Electric-lighted. C. F. Ziegler and R. A. Bartling. No. 912,639; Feb. 16; Sp. p. 3339; Gaz. vol. 139; p. 599.  
 Sign, Electrically-illuminated. J. H. Goehst. No. 943,246; Dec. 14; Sp. p. 2610; Gaz. vol. 149; p. 442.  
 Sign-exhibitor and display-rack. E. G. and G. H. Cuny. No. 925,757; June 22; Sp. p. 5601; Gaz. vol. 143; p. 972.  
 Sign for advertising purposes, &c., Changeable. C. D. Chadbourne and W. R. Simpson. No. 941,695; Nov. 30; Sp. p. 7141; Gaz. vol. 148; p. 1205.  
 Sign-holder. G. Huneryager. No. 922,700; May 25; Sp. p. 5365; Gaz. vol. 142; p. 946.  
 Sign-holder, Street-light. A. E. Shaw. No. 914,195; Mar. 2; Sp. p. 1162; Gaz. vol. 140; p. 181.  
 Sign-holding apparatus. C. P. Rall. No. 944,150; Dec. 21; Sp. p. 4553; Gaz. vol. 149; p. 781.  
 Sign, Illuminated. A. H. Hawkes. No. 911,557; Feb. 2; Sp. p. 1024; Gaz. vol. 139; p. 177.  
 Sign, Illuminated. M. Norden. No. 912,721; Feb. 16; Sp. p. 3544; Gaz. vol. 139; p. 628.  
 Sign, Illuminated. M. C. Ryan. No. 922,958; May 25; Sp. p. 5906; Gaz. vol. 142; p. 1029.  
 Sign, Illuminated. R. R. and W. K. Wiley and W. S. Hough, Jr. No. 926,796; July 6; Sp. p. 184; Gaz. vol. 144; p. 31.  
 Sign, Illuminated. J. F. Druar. No. 936,226; Oct. 5; Sp. p. 1294; Gaz. vol. 147; p. 197.  
 Sign, Illuminated. E. J. Chirgwin. No. 936,234; Oct. 5; Sp. p. 1306; Gaz. vol. 147; p. 200.  
 Sign, Illuminated. F. Ward. No. 940,847; Nov. 23; Sp. p. 5331; Gaz. vol. 148; p. 904.  
 Sign, Illuminated. J. W. Crow. No. 944,951; Dec. 28; Sp. p. 6278; Gaz. vol. 149; p. 1079.  
 Sign, Illuminated-letter. C. H. Hulse. No. 928,309; July 20; Sp. p. 3380; Gaz. vol. 144; p. 595.  
 Sign, Illuminated rotary. E. Rappaport. No. 919,380; Apr. 27; Sp. p. 5194; Gaz. vol. 141; p. 901.  
 Sign, Illuminating-. D. Fernald and A. C. Whiting. No. 932,009; Aug. 24; Sp. p. 5079; Gaz. vol. 145; p. 868.  
 Sign, Interchangeable. A. C. Brose. No. 911,699; Feb. 9; Sp. p. 1349; Gaz. vol. 139; p. 251.  
 Sign, Luminous. P. L. Clark. No. 931,036; Aug. 17; Sp. p. 2955; Gaz. vol. 145; p. 523.  
 Sign manufacture, Triple-. T. P. Heinemann. No. 942,498; Dec. 7; Sp. p. 992; Gaz. vol. 149; p. 160.  
 Sign, Movable advertising-. J. H. La Pearl. No. 922,784; May 25; Sp. p. 5534; Gaz. vol. 142; p. 972.  
 Sign, Multiple. R. A. Miller. No. 922,015; May 18; Sp. p. 3971; Gaz. vol. 142; p. 694.  
 Sign-receptacle, Electrical. F. J. Russell. No. 917,145; Apr. 6; Sp. p. 385; Gaz. vol. 141; p. 67.  
 Sign-receptacles, Fastening for electrical. E. H. Freeman. No. 925,168; June 15; Sp. p. 4411; Gaz. vol. 143; p. 753.  
 Sign, Revolvable. A. H. Grove. No. 932,120; Aug. 24; Sp. p. 5311; Gaz. vol. 145; p. 905.  
 Sign, Revolving. M. Heim. No. 925,907; June 22; Sp. p. 5917; Gaz. vol. 143; p. 1022.  
 Sign, Revolving illuminated. J. E. Saunders. No. 935,236; Sept. 28; Sp. p. 4545; Gaz. vol. 146; p. 809.  
 Sign, Rotatable. D. I. Whiteside. No. 939,768; Nov. 9; Sp. p. 2924; Gaz. vol. 148; p. 480.  
 Signs, letters, and designs, Manufacture and painting of. G. M. Ferguson. No. 911,033; Feb. 2; Sp. p. 20; Gaz. vol. 139; p. 6.  
 Signal: See Alarm-signal; Automatic switch-signal; Block-signal; Boiler low-water signal; Compressed-air signal; Crossing-signal; Danger-zone signal; Electric signal; Elevator-signal; Mail-box signal; Post-box signal; Prison-signal; Railway-signal; Railway alarm-signal; Railway-crossing signal; Railway electric signal; Railway semaphore-signal; Rural-delivery-box signal; Safety stop-signal; Semaphore-signal; Switch-signal; Switchboard-signal; Target-signal; Three-position signal; Train-signal; Train-order signal; Vehicle-signal; Warning-signal.  
 Signal. W. H. Parrish, Jr. No. 912,159; Feb. 9; Sp. p. 2304; Gaz. vol. 139; p. 400.  
 Signal. C. N. Brown. No. 914,235; Mar. 2; Sp. p. 1240; Gaz. vol. 140; p. 193.  
 Signal. D. B. Utt. No. 924,403; June 8; Sp. p. 2836; Gaz. vol. 143; p. 462.  
 Signal. J. M. Kennedy and I. W. Gleason. No. 928,666; July 20; Sp. p. 4092; Gaz. vol. 144; p. 713.  
 Signal. H. C. Keays. No. 929,445; July 27; Sp. p. 5682; Gaz. vol. 144; p. 998.  
 Signal. R. L. Cairncross. No. 931,382; Aug. 17; Sp. p. 3729; Gaz. vol. 145; p. 643.  
 Signal. J. M. Kennedy and I. W. Gleason. No. 932,292; Aug. 24; Sp. p. 5648; Gaz. vol. 145; p. 963.  
 Signal. L. A. Hawkins. No. 941,144; Nov. 23; Sp. p. 5961; Gaz. vol. 148; p. 1003.  
 Signal-alarm, Automatic. P. A. Brown. No. 912,359; Feb. 16; Sp. p. 2757; Gaz. vol. 139; p. 502.

*Alphabetical list of inventions—Continued.*

- Signal and air-brake, Combined. A. M. Jones. No. 941,259; Nov. 23; Sp. p. 6200; Gaz. vol. 148; p. 1041.  
Signal and tail light. P. C. Woodnutt. No. 936,394; Oct. 12; Sp. p. 1655; Gaz. vol. 147; p. 281.  
Signal apparatus. C. J. Coleman. No. 909,551; Jan. 12; Sp. p. 2255; Gaz. vol. 138; p. 401.  
Signal apparatus, Electric. C. E. Duffie. No. 920,932; May 11; Sp. p. 1718; Gaz. vol. 142; p. 305.  
Signal apparatus, Visual. R. Einbiger. No. 940,444; Nov. 16; Sp. p. 4453; Gaz. vol. 148; p. 744.  
Signal-blower, Adjustable. E. O. Lawton. No. 910,135; Jan. 19; Sp. p. 3427; Gaz. vol. 138; p. 628.  
Signal-controlling apparatus. W. M. Chapman. No. 942,195; Dec. 7; Sp. p. 360; Gaz. vol. 149; p. 55.  
Signal-controlling device, Electromagnetic. E. B. Craft. No. 923,949; June 8; Sp. p. 1872; Gaz. vol. 143; p. 312.  
Signal-cord hanger. F. J. Borer. No. 930,139; Aug. 3; Sp. p. 1092; Gaz. vol. 145; p. 176.  
Signal device. F. S. Dombrowski. No. 927,129; July 6; Sp. p. 900; Gaz. vol. 144; p. 145.  
Signal device. C. M. Hartwell. No. 929,590; July 27; Sp. p. 5942; Gaz. vol. 144; p. 1045.  
Signal device. H. J. Heeney. No. 931,604; Aug. 17; Sp. p. 4135; Gaz. vol. 145; p. 712.  
Signal-flag holder, Train. B. Willhide. No. 918,626; Apr. 20; Sp. p. 3415; Gaz. vol. 141; p. 616.  
Signal-lantern. C. L. Betts. No. 910,637; Jan. 26; Sp. p. 4534; Gaz. vol. 138; p. 826.  
Signal-light. T. L. Willson. No. 923,474; June 1; Sp. p. 811; Gaz. vol. 143; p. 121.  
Signal-light apparatus. G. Dalén. (Reissue.) No. 12,940; Apr. 13; Sp. p. 3112; Gaz. vol. 141; p. 545.  
Signal-light apparatus. G. Dalén. No. 943,300; Dec. 14; Sp. p. 2728; Gaz. vol. 149; p. 461.  
Signal mechanism. W. V. Moak. No. 925,123; June 15; Sp. p. 3525; Gaz. vol. 143; p. 737.  
Signal mechanism. W. W. Van Horn. No. 936,835; Oct. 12; Sp. p. 2579; Gaz. vol. 147; p. 430.  
Signal mechanism for overhead-trolley systems, Electric. H. A. Lines. No. 924,800; June 15; Sp. p. 3669; Gaz. vol. 143; p. 629.  
Signal recorder, Electric. N. H. Suren. No. 938,285; Oct. 26; Sp. p. 5610; Gaz. vol. 147; p. 960.  
Signal recorder, Electric. N. H. Suren. No. 938,286; Oct. 26; Sp. p. 5610; Gaz. vol. 147; p. 960.  
Signal system. J. R. Walsh. No. 918,229; Apr. 13; Sp. p. 2575; Gaz. vol. 141; p. 459.  
Signal system. J. L. Hall. No. 918,848; Apr. 20; Sp. p. 3923; Gaz. vol. 141; p. 691.  
Signal system. L. A. Hawkins. No. 923,170; June 1; Sp. p. 105; Gaz. vol. 143; p. 17.  
Signal system. W. H. Kirnan. No. 924,670; June 15; Sp. p. 3393; Gaz. vol. 143; p. 584.  
Signal system. E. F. Bliss. No. 928,021; July 13; Sp. p. 2731; Gaz. vol. 144; p. 466.  
Signal system. W. Mears. No. 937,837; Oct. 26; Sp. p. 4664; Gaz. vol. 147; p. 808.  
Signal system, Automatic. J. S. Payne. No. 936,255; Oct. 5; Sp. p. 1345; Gaz. vol. 147; p. 207.  
Signal system, Automatic. P. O. Adams. No. 943,587; Dec. 14; Sp. p. 3311; Gaz. vol. 149; p. 558.  
Signal system, Electric. V. L. Beeman. No. 912,786; Feb. 16; Sp. p. 3094; Gaz. vol. 139; p. 649.  
Signal system, Electric. A. L. Sohm. No. 944,003; Dec. 21; Sp. p. 4248; Gaz. vol. 149; p. 732.  
Signal system, Self-answering. E. R. Gill. No. 934,908; Sept. 21; Sp. p. 3873; Gaz. vol. 146; p. 674.  
Signal system, Supervisory. C. F. Patterson. No. 931,704; Aug. 17; Sp. p. 4388; Gaz. vol. 145; p. 746.  
Signal system, Theatre-chair. P. T. Kenny. No. 943,940; Dec. 21; Sp. p. 4104; Gaz. vol. 149; p. 711.  
Signal transmitting and receiving apparatus, Electrical. A. T. Dawson and G. T. Buckham. No. 938,830; Nov. 2; Sp. p. 819; Gaz. vol. 148; p. 131.  
Signals, Apparatus for receiving submarine. C. H. Mundy. No. 908,877; Jan. 5; Sp. p. 920; Gaz. vol. 138; p. 146.  
Signals, Electrical apparatus for producing sound. C. H. O'Brien. No. 926,284; June 29; Sp. p. 6698; Gaz. vol. 143; p. 1181.  
Signaling. R. A. Fessenden. No. 916,428; Mar. 30; Sp. p. 5616; Gaz. vol. 140; p. 1017.  
Signaling and controlling system, Train-dispatcher's. G. E. Patrick. No. 933,662; Sept. 7; Sp. p. 1418; Gaz. vol. 146; p. 215.  
Signaling and switching apparatus, Electrical. R. H. Manson. No. 934,977; Sept. 21; Sp. p. 4024; Gaz. vol. 146; p. 699.  
Signaling and switching apparatus, Electrical. R. H. Manson. No. 943,883; Dec. 21; Sp. p. 3971; Gaz. vol. 149; p. 690.  
Signaling and train-stopping device, Automatic. H. Davis. No. 918,018; Apr. 13; Sp. p. 2153; Gaz. vol. 141; p. 387.  
Signaling and telephone system, Combined automatic. E. E. Salisbury. No. 921,894; May 18; Sp. p. 3707; Gaz. vol. 142; p. 654.  
Signaling apparatus. J. Melvin. No. 922,014; May 18; Sp. p. 3970; Gaz. vol. 142; p. 694.  
Signaling-apparatus circuit-breaker, Automatic. E. A. Everett. No. 908,654; Jan. 5; Sp. p. 484; Gaz. vol. 138; p. 76.  
Signaling apparatus, Electrical. J. D. Nelson. No. 920,378; May 4; Sp. p. 589; Gaz. vol. 142; p. 94.  
Signaling apparatus, Electrical. O. L. Harrison. No. 933,557; Sept. 7; Sp. p. 1221; Gaz. vol. 146; p. 179.  
Signaling apparatus, Selective. O. M. Leich. No. 943,115; Dec. 14; Sp. p. 2350; Gaz. vol. 149; p. 399.  
Signaling apparatus, Selective electric. J. B. Coe. No. 944,665; Dec. 28; Sp. p. 5675; Gaz. vol. 149; p. 985.  
Signaling apparatus, Submarine. E. C. Wood, F. M. Durkee, W. F. Kelley, and J. B. Millet. No. 921,326; May 11; Sp. p. 2530; Gaz. vol. 142; p. 439.  
Signaling apparatus, Train. G. A. Shoemaker. No. 923,719; June 1; Sp. p. 1331; Gaz. vol. 143; p. 207.  
Signaling apparatus, Wireless. R. A. Fessenden. No. 918,307; Apr. 13; Sp. p. 2731; Gaz. vol. 141; p. 484.  
Signaling device. B. Behr. No. 926,457; June 29; Sp. p. 7028; Gaz. vol. 143; p. 1239.  
Signaling device. W. P. Smith. No. 937,482; Oct. 19; Sp. p. 3952; Gaz. vol. 147; p. 671.  
Signaling device, Electric. R. V. Cheatham. No. 934,284; Sept. 14; Sp. p. 2656; Gaz. vol. 146; p. 441.  
Signaling device for doors. A. H. Long. No. 924,803; June 15; Sp. p. 3673; Gaz. vol. 143; p. 629.  
Signaling device, Mechanical code. F. A. Meissner. No. 942,334; Dec. 7; Sp. p. 646; Gaz. vol. 149; p. 103.  
Signaling means. Z. Wessel. No. 930,446; Aug. 10; Sp. p. 1655; Gaz. vol. 145; p. 300.  
Signaling, Receiver for wireless. H. C. Cayley. No. 925,291; June 15; Sp. p. 4632; Gaz. vol. 143; p. 792.  
Signaling, Submarine. J. B. Millet. No. 933,720; Sept. 7; Sp. p. 1551; Gaz. vol. 146; p. 235.  
Signaling system. S. A. Reed. No. 908,698; Jan. 5; Sp. p. 506; Gaz. vol. 138; p. 89.  
Signaling system. R. H. Marriott. No. 913,528; Feb. 23; Sp. p. 5156; Gaz. vol. 139; p. 919.  
Signaling system. N. B. Cregier. No. 915,075; Mar. 16; Sp. p. 2907; Gaz. vol. 140; p. 519.  
Signaling system. J. B. Edwards. No. 917,270; Apr. 6; Sp. p. 644; Gaz. vol. 141; p. 109.  
Signaling system. H. G. Webster. No. 921,319; May 11; Sp. p. 2510; Gaz. vol. 142; p. 435.  
Signaling system. H. G. Webster. No. 921,320; May 11; Sp. p. 2514; Gaz. vol. 142; p. 436.  
Signaling system. J. Means. No. 922,709; May 25; Sp. p. 5382; Gaz. vol. 142; p. 949.  
Signaling system. J. G. Nolen. No. 927,377; July 6; Sp. p. 1347; Gaz. vol. 144; p. 224.  
Signaling system. H. O. Rugh. No. 927,602; July 13; Sp. p. 1861; Gaz. vol. 144; p. 329.  
Signaling system. J. G. Nolen. No. 933,197; Sept. 7; Sp. p. 356; Gaz. vol. 146; p. 57.  
Signaling system. O. M. Leich. No. 938,155; Oct. 26; Sp. p. 5358; Gaz. vol. 147; p. 914.  
Signaling system. F. E. Smith. No. 942,676; Dec. 7; Sp. p. 1331; Gaz. vol. 149; p. 219.  
Signaling system. O. T. Lademan. No. 944,563; Dec. 28; Sp. p. 5472; Gaz. vol. 149; p. 949.  
Signaling system and magneto hand-generator therefor, Harmonic. R. H. Manson. No. 927,663; July 13; Sp. p. 2009; Gaz. vol. 144; p. 349.  
Signaling system, Composite. H. B. Stone. No. 922,206; May 18; Sp. p. 4350; Gaz. vol. 142; p. 756.  
Signaling system, Electric. S. M. Young and F. Townsend. No. 919,996; Apr. 27; Sp. p. 6480; Gaz. vol. 141; p. 1107.  
Signaling system, Electrical. A. D. T. Libby. No. 922,006; May 18; Sp. p. 3952; Gaz. vol. 142; p. 691.  
Signaling system, Electrical. J. G. Nolen. No. 922,320; May 18; Sp. p. 4561; Gaz. vol. 142; p. 792.  
Signaling system, Electrical. R. H. Manson. No. 922,436; May 18; Sp. p. 4801; Gaz. vol. 142; p. 831.  
Signaling system, Electrical. F. M. Slough. No. 932,505; Aug. 31; Sp. p. 6085; Gaz. vol. 145; p. 1055.  
Signaling system, Electrical. F. M. Slough. No. 938,345; Oct. 26; Sp. p. 5757; Gaz. vol. 147; p. 980.  
Signaling system, Selective. A. W. Jones. No. 921,116; May 11; Sp. p. 2083; Gaz. vol. 142; p. 367.  
Signaling system, Wireless. G. Marconi. No. 924,168; June 8; Sp. p. 2338; Gaz. vol. 143; p. 384.  
Signaling system, Wireless. G. Marconi. No. 924,560; June 8; Sp. p. 3145; Gaz. vol. 143; p. 513.  
Signaling system, Wireless. V. Poulsen. No. 929,487; July 27; Sp. p. 5761; Gaz. vol. 144; p. 1011.  
Signaling, Wireless. R. A. Fessenden. No. 918,306; Apr. 13; Sp. p. 2729; Gaz. vol. 141; p. 484.  
Signature feeding and assembling machine. D. G. Smyth. No. 909,701; Jan. 12; Sp. p. 2551; Gaz. vol. 138; p. 453.  
Signature-gatherer. C. L. Smith. No. 934,365; Sept. 14; Sp. p. 2812; Gaz. vol. 146; p. 469.  
Signatures, Forming. C. A. Sturtevant. No. 908,516; Jan. 5; Sp. p. 168; Gaz. vol. 138; p. 30.  
Silicates of aluminum for the purpose of obtaining valuable products, Treating. A. Sinding-Larsen. No. 927,758; July 13; Sp. p. 2194; Gaz. vol. 144; p. 380.  
Silicon carbide, Producing. F. J. Tone. No. 937,119; Oct. 19; Sp. p. 3146; Gaz. vol. 147; p. 553.  
Silicon carbide, Producing. F. J. Tone. No. 941,339; Nov. 23; Sp. p. 6363; Gaz. vol. 148; p. 1064.  
Silicon nitride, Manufacturing. A. Sinding-Larsen. No. 928,476; July 20; Sp. p. 3698; Gaz. vol. 144; p. 650.  
Silicon, Production of. G. O. Seward and F. von Kugelgen. No. 916,793; Mar. 30; Sp. p. 6334; Gaz. vol. 140; p. 1132.  
Silk filaments, Apparatus for sewing and finishing. E. Pohl. No. 916,367; Mar. 23; Sp. p. 5479; Gaz. vol. 140; p. 972.  
Silk filaments, Apparatus for lustering and finishing. E. Pohl. No. 920,775; May 4; Sp. p. 1375; Gaz. vol. 142; p. 223.  
Silk in hanks, Apparatus for treating. F. Lindenmeyer. No. 926,429; June 29; Sp. p. 6980; Gaz. vol. 143; p. 1229.  
Silk product and treatment of silk. J. Knup. No. 931,433; Aug. 17; Sp. p. 3831; Gaz. vol. 145; p. 661.



*Alphabetical list of inventions—Continued.*

- Silk-thread-finishing machine. E. Pohl. No. 920,776; May 4; Sp. p. 1378; Gaz. vol. 142; p. 223.
- Silk. Treatment of materials containing. T. Boettger and F. Vorn Eysner. No. 935,292; Sept. 28; Sp. p. 4657; Gaz. vol. 146; p. 827.
- Sill-plate. H. Zimmerman. No. 921,783; May 18; Sp. p. 3482; Gaz. vol. 142; p. 619.
- Silo. A. A. Doty. No. 911,217; Feb. 2; Sp. p. 381; Gaz. vol. 139; p. 67.
- Silo. E. M. Wilson. No. 932,737; Aug. 31; Sp. p. 6584; Gaz. vol. 145; p. 1134.
- Silo. D. E. Monta. No. 935,269; Sept. 28; Sp. p. 4615; Gaz. vol. 146; p. 820.
- Silo. F. J. Van Cott. No. 939,355; Nov. 9; Sp. p. 2011; Gaz. vol. 148; p. 339.
- Silo. C. Gminer. No. 939,826; Nov. 9; Sp. p. 3034; Gaz. vol. 148; p. 500.
- Silo. B. F. Lockwood. No. 940,170; Nov. 16; Sp. p. 3824; Gaz. vol. 148; p. 649.
- Silo. G. Moeke. No. 942,095; Dec. 7; Sp. p. 128; Gaz. vol. 149; p. 20.
- Silo. J. H. McCoy. No. 942,340; Dec. 7; Sp. p. 658; Gaz. vol. 149; p. 105.
- Silo. W. R. Harrison and A. C. Jacoby. No. 942,640; Dec. 7; Sp. p. 1268; Gaz. vol. 149; p. 207.
- Silo. P. R. Jensen. No. 944,873; Dec. 28; Sp. p. 6134; Gaz. vol. 149; p. 1055.
- Silo construction. O. Brumbaugh. No. 921,586; May 11; Sp. p. 3044; Gaz. vol. 142; p. 523.
- Silo-door fastener. K. Kleven. No. 921,122; May 11; Sp. p. 2095; Gaz. vol. 142; p. 369.
- Silo-doors, interlocking lever for. W. A. Holnagel. No. 941,679; Nov. 30; Sp. p. 7098; Gaz. vol. 148; p. 1200.
- Silo-packer. G. R. Rogers. No. 931,090; Aug. 17; Sp. p. 3090; Gaz. vol. 145; p. 542.
- Silver, Assaying for. J. C. Hames. No. 939,413; Nov. 9; Sp. p. 2158; Gaz. vol. 148; p. 358.
- Silver from its ores, Extracting. J. C. Pryor. No. 918,908; Apr. 20; Sp. p. 4065; Gaz. vol. 141; p. 713.
- Sinew-extractor. G. A. Congdon. No. 941,759; Nov. 30; Sp. p. 7291; Gaz. vol. 148; p. 1228.
- Singeing-machine. T. Allsop and W. W. Sibson. No. 919,999; Apr. 27; Sp. p. 6489; Gaz. vol. 141; p. 1108.
- Singeing-machine. T. Allsop and W. W. Sibson. No. 930,116; Aug. 3; Sp. p. 1040; Gaz. vol. 145; p. 168.
- Singeing-machine. D. Davis and A. O. Berry. No. 943,657; Dec. 21; Sp. p. 3529; Gaz. vol. 149; p. 614.
- Single-phase commutator-motor. V. A. Fynn. No. 928,438; July 20; Sp. p. 3617; Gaz. vol. 144; p. 638.
- Single-phase motor. F. Eichberg. No. 920,040; Apr. 27; Sp. p. 6594; Gaz. vol. 141; p. 1122.
- Single-phase motor. E. F. W. Alexanderson. No. 920,710; May 4; Sp. p. 1274; Gaz. vol. 142; p. 203.
- Single-phase motor. S. R. Bergman. No. 924,725; June 15; Sp. p. 3509; Gaz. vol. 143; p. 603.
- Single-phase motor. E. F. W. Alexanderson. No. 935,881; Oct. 5; Sp. p. 608; Gaz. vol. 147; p. 87.
- Single-trigger mechanism. E. C. Osgood. No. 934,009; Sept. 14; Sp. p. 2116; Gaz. vol. 146; p. 350.
- Sink. J. F. Kelly. No. 917,454; Apr. 6; Sp. p. 985; Gaz. vol. 141; p. 171.
- Sink. F. H. Caldwell. No. 918,124; Apr. 13; Sp. p. 2368; Gaz. vol. 141; p. 424.
- Sink. E. R. Goode. No. 927,524; July 13; Sp. p. 1692; Gaz. vol. 144; p. 302.
- Sink and washtub, Combination. W. M. De Lory. No. 912,086; Feb. 9; Sp. p. 2176; Gaz. vol. 139; p. 277.
- Sink-flusher, Self-adjusting pressure. W. H. Deidrick. No. 917,717; Apr. 6; Sp. p. 1471; Gaz. vol. 141; p. 257.
- Sink garbage-drainer. J. Tyll. No. 914,090; Mar. 2; Sp. p. 936; Gaz. vol. 140; p. 147.
- Sink, Kitchen-. T. Lydon. No. 910,833; Jan. 26; Sp. p. 4917; Gaz. vol. 138; p. 887.
- Sink, Kitchen-. W. J. Reed. No. 938,607; Nov. 2; Sp. p. 375; Gaz. vol. 148; p. 56.
- Sink or shelf bracket. B. A. Berger. No. 918,415; Apr. 13; Sp. p. 2941; Gaz. vol. 141; p. 518.
- Sink stand or shelf. S. R. Eccleston. No. 916,283; Mar. 23; Sp. p. 5326; Gaz. vol. 140; p. 943.
- Sink-stop. O. J. Deegan. No. 936,313; Oct. 12; Sp. p. 1466; Gaz. vol. 147; p. 254.
- Sink-strainer. J. F. Sullivan. No. 929,727; Aug. 3; Sp. p. 188; Gaz. vol. 145; p. 33.
- Sink, &c., support. J. Rendall. No. 911,611; Feb. 9; Sp. p. 1145; Gaz. vol. 139; p. 221.
- Sink-table and bath-tub, Portable and separable. C. B. Schmitt. No. 923,203; June 1; Sp. p. 176; Gaz. vol. 143; p. 29.
- Sink-trap. T. E. Doyle. No. 926,552; June 29; Sp. p. 7187; Gaz. vol. 143; p. 1270.
- Sink traps to sloop-sinks, Adjustable connection for sloop-. J. H. Gavin and H. M. Hoelscher. No. 925,324; June 15; Sp. p. 4696; Gaz. vol. 143; p. 801.
- Sink, washtub, and similar article. F. H. Caldwell. No. 928,425; July 20; Sp. p. 3586; Gaz. vol. 144; p. 634.
- Sinks, Adjustable support for. F. J. Raehn. No. 939,741; Nov. 9; Sp. p. 2858; Gaz. vol. 148; p. 471.
- Sinker. G. W. Teasdale. No. 942,597; Dec. 7; Sp. p. 1180; Gaz. vol. 149; p. 192.
- Sintering apparatus. R. Palmer. No. 942,513; Dec. 7; Sp. p. 1019; Gaz. vol. 149; p. 164.
- Sintering-machine. A. B. Young. No. 930,259; Aug. 3; Sp. p. 1298; Gaz. vol. 145; p. 214.
- Siphon. J. Frueh. No. 910,054; Jan. 19; Sp. p. 3265; Gaz. vol. 138; p. 602.
- Siphon. J. B. Lee. No. 915,867; Mar. 23; Sp. p. 4552; Gaz. vol. 140; p. 809.
- Siphon. W. Harrison. No. 922,698; May 25; Sp. p. 5361; Gaz. vol. 142; p. 945.
- Siphon. E. Neugebauer. No. 923,879; June 8; Sp. p. 1747; Gaz. vol. 143; p. 291.
- Siphon. S. J. Graham and A. E. Fowler. No. 925,330; June 15; Sp. p. 4704; Gaz. vol. 143; p. 803.
- Siphon. C. F. Plunkett. No. 929,485; July 27; Sp. p. 5757; Gaz. vol. 144; p. 1011.
- Siphon. S. F. Miller. No. 931,453; Aug. 17; Sp. p. 3865; Gaz. vol. 145; p. 666.
- Siphon. F. A. Decker. No. 944,602; Dec. 28; Sp. p. 5557; Gaz. vol. 149; p. 964.
- Siphon, Automatic. H. Buchler. No. 929,192; July 27; Sp. p. 5162; Gaz. vol. 144; p. 915.
- Siphon, Beverage-. H. J. Schmitt. No. 938,517; Nov. 2; Sp. p. 173; Gaz. vol. 148; p. 24.
- Siphon for dispensing liquids. A. Kleinfeldt. No. 943,421; Dec. 14; Sp. p. 2969; Gaz. vol. 149; p. 501.
- Siphon-head. O. L. Koscherak. No. 934,819; Sept. 21; Sp. p. 3714; Gaz. vol. 146; p. 644.
- Siphon, &c., protecting guard. D. Landau. No. 915,364; Mar. 16; Sp. p. 3521; Gaz. vol. 140; p. 614.
- Sizing and shaping. A. F. Rockwell. No. 926,898; July 6; Sp. p. 398; Gaz. vol. 144; p. 65.
- Sizing composition. M. Rossi. No. 937,095; Oct. 19; Sp. p. 3101; Gaz. vol. 147; p. 545.
- Sizing composition. W. Hoskins. No. 940,317; Nov. 16; Sp. p. 4156; Gaz. vol. 148; p. 701.
- Skate. O. Arlund. No. 908,536; Jan. 5; Sp. p. 221; Gaz. vol. 138; p. 38.
- Skate. W. E. Tait and H. Nicoll. No. 911,346; Feb. 2; Sp. p. 632; Gaz. vol. 139; p. 108.
- Skate. A. J. Kennedy. No. 922,774; May 25; Sp. p. 5511; Gaz. vol. 142; p. 959.
- Skate. R. B. Eubank, Jr. No. 926,646; June 29; Sp. p. 7373; Gaz. vol. 143; p. 1301.
- Skate. J. E. Martin. No. 928,528; July 20; Sp. p. 3803; Gaz. vol. 144; p. 666.
- Skate. J. N. Stott. No. 933,929; Sept. 14; Sp. p. 1969; Gaz. vol. 146; p. 324.
- Skate brake, Roller-. S. J. Nesbitt, Sr. No. 939,536; Nov. 9; Sp. p. 2406; Gaz. vol. 148; p. 399.
- Skate, Combined ice and roller. W. H. Fitzgerald. No. 916,289; Mar. 23; Sp. p. 5336; Gaz. vol. 140; p. 945.
- Skate, Combined roller and ice. J. A. Nolan. No. 938,168; Oct. 26; Sp. p. 5384; Gaz. vol. 147; p. 919.
- Skate, Extensible roller-. W. J. Hille. No. 944,991; Dec. 28; Sp. p. 6365; Gaz. vol. 149; p. 1093.
- Skate, Ice-. R. Yates. No. 940,108; Nov. 16; Sp. p. 3690; Gaz. vol. 148; p. 629.
- Skate-roller. T. W. Bryant. No. 913,687; Mar. 2; Sp. p. 16; Gaz. vol. 140; p. 5.
- Skate, Roller-. T. Spacie. No. 917,499; Apr. 6; Sp. p. 1062; Gaz. vol. 141; p. 186.
- Skate, Roller-. W. J. Hille. No. 918,321; Apr. 13; Sp. p. 2759; Gaz. vol. 141; p. 489.
- Skate, Roller-. E. F. Mees. No. 918,575; Apr. 20; Sp. p. 3294; Gaz. vol. 141; p. 599.
- Skate, Roller-. W. J. Hille. No. 920,327; May 4; Sp. p. 485; Gaz. vol. 142; p. 76.
- Skate, Roller-. R. B. Eubank, Jr. No. 920,848; May 4; Sp. p. 1523; Gaz. vol. 142; p. 247.
- Skate, Roller-. M. B. Grount. No. 921,102; May 11; Sp. p. 2063; Gaz. vol. 142; p. 363.
- Skate, Roller-. J. H. Hollar. No. 931,064; Aug. 17; Sp. p. 3044; Gaz. vol. 145; p. 533.
- Skate, Roller-. W. Schoenberg. No. 936,173; Oct. 5; Sp. p. 1205; Gaz. vol. 147; p. 182.
- Skate, Roller-. T. Spacie. No. 939,451; Nov. 9; Sp. p. 2232; Gaz. vol. 148; p. 371.
- Skate, Roller-. W. Lennox. No. 942,333; Dec. 7; Sp. p. 644; Gaz. vol. 149; p. 103.
- Skate, Roller-. J. Nuttall. No. 942,344; Dec. 7; Sp. p. 666; Gaz. vol. 149; p. 107.
- Skate-wheel. J. Nuttall. No. 937,261; Oct. 19; Sp. p. 3472; Gaz. vol. 147; p. 600.
- Skates, Removable brake and guard for roller-. A. R. Rieger. No. 914,458; Mar. 9; Sp. p. 1699; Gaz. vol. 140; p. 291.
- Skater's support. W. S. Miller. No. 923,556; June 1; Sp. p. 987; Gaz. vol. 143; p. 151.
- Skating-ring, Rotary. J. Weil. No. 916,072; Mar. 23; Sp. p. 4941; Gaz. vol. 140; p. 875.
- Skein-holder. F. E. Weightze. No. 935,342; Sept. 28; Sp. p. 4771; Gaz. vol. 146; p. 844.
- Skein-lacing machine. C. Ferenbach. No. 916,690; Mar. 30; Sp. p. 6157; Gaz. vol. 140; p. 1103.
- Skewer. G. L. Stark and A. W. Baxter. No. 935,171; Sept. 28; Sp. p. 4422; Gaz. vol. 146; p. 788.
- Skid. P. Buhl. No. 923,487; June 1; Sp. p. 833; Gaz. vol. 143; p. 126.
- Skid and truck, Combination. E. W. Skipworth. No. 924,282; June 8; Sp. p. 2591; Gaz. vol. 143; p. 422.
- Skid and truck, Combined. R. M. Pearce. No. 922,029; May 18; Sp. p. 4000; Gaz. vol. 142; p. 699.
- Skid, Recording-. C. E. Muhlenberg. No. 917,743; Apr. 6; Sp. p. 1527; Gaz. vol. 141; p. 266.
- Skidding machine, Log-. T. S. Miller and J. H. Dickinson. No. 914,441; Mar. 9; Sp. p. 1667; Gaz. vol. 140; p. 285.

*Alphabetical list of inventions—Continued.*

- Skinning and cutting tool. C. E. Wallder and H. M. Ashton. No. 941,829; Nov. 30; Sp. p. 7450; Gaz. vol. 148; p. 1252.  
 Skinning and dissecting knife. F. L. Putney. No. 912,411; Feb. 16; Sp. p. 2868; Gaz. vol. 139; p. 520.  
 Skins and the like, Machine for the treatment of. F. A. Geipel. No. 941,317; Nov. 23; Sp. p. 6330; Gaz. vol. 148; p. 1058.  
 Skins, Apparatus for washing. C. Dufour. No. 934,961; Sept. 21; Sp. p. 3990; Gaz. vol. 146; p. 693.  
 Skip. O. E. Strehlow. No. 935,282; Sept. 28; Sp. p. 4638; Gaz. vol. 146; p. 824.  
 Skip or load-carrier. A. Lambert. No. 915,363; Mar. 16; Sp. p. 3518; Gaz. vol. 140; p. 614.  
 Skirt. W. and S. Epstein. No. 912,834; Feb. 16; Sp. p. 3779; Gaz. vol. 139; p. 664.  
 Skirt. M. S. Doty. No. 913,815; Mar. 2; Sp. p. 287; Gaz. vol. 140; p. 49.  
 Skirt. W. W. Hook. No. 914,414; Mar. 9; Sp. p. 1619; Gaz. vol. 140; p. 276.  
 Skirt. W. Padernacht. No. 929,106; July 27; Sp. p. 4973; Gaz. vol. 144; p. 885.  
 Skirt. W. Padernacht. No. 929,163; July 27; Sp. p. 5096; Gaz. vol. 144; p. 905.  
 Skirt. W. Padernacht. No. 929,476; July 27; Sp. p. 5744; Gaz. vol. 144; p. 1008.  
 Skirt and coat fitting and turning device, Lady's. L. Curcio. No. 910,508; Jan. 26; Sp. p. 4261; Gaz. vol. 138; p. 782.  
 Skirt and garment supporter. H. F. Tibbetts. No. 930,814; Aug. 10; Sp. p. 2449; Gaz. vol. 145; p. 424.  
 Skirt and shirt-waist pin. S. E. Moore. No. 930,604; Aug. 10; Sp. p. 2021; Gaz. vol. 145; p. 354.  
 Skirt and the like attachment. W. Padernacht. No. 929,005; July 27; Sp. p. 4764; Gaz. vol. 144; p. 852.  
 Skirt-gage. C. Wetz. No. 914,542; Mar. 9; Sp. p. 1875; Gaz. vol. 140; p. 319.  
 Skirt-gage. J. D. Ball. No. 928,239; July 20; Sp. p. 3194; Gaz. vol. 144; p. 570.  
 Skirt-gage. E. M. Weissel and E. A. Hemsteger. No. 931,825; Aug. 24; Sp. p. 4660; Gaz. vol. 145; p. 807.  
 Skirt-gage. D. A. Reynolds. No. 940,615; Nov. 16; Sp. p. 4803; Gaz. vol. 148; p. 800.  
 Skirt-gage. N. Lewsen. No. 944,885; Dec. 28; Sp. p. 6156; Gaz. vol. 149; p. 1059.  
 Skirt-gage and marker. E. A. Howard. No. 917,438; Apr. 6; Sp. p. 955; Gaz. vol. 141; p. 166.  
 Skirt-gage, Dressmaker's. M. Stein. No. 937,335; Oct. 19; Sp. p. 3603; Gaz. vol. 147; p. 622.  
 Skirt hanger and stretcher. W. J. Tetreault. No. 942,525; Dec. 7; Sp. p. 1045; Gaz. vol. 149; p. 169.  
 Skirt-length gage. R. W. Tyler. No. 932,192; Aug. 24; Sp. p. 5460; Gaz. vol. 145; p. 929.  
 Skirt-lifting device. M. Becher. No. 930,026; Aug. 3; Sp. p. 852; Gaz. vol. 145; p. 137.  
 Skirt-marker. M. Ryan. No. 913,433; Feb. 23; Sp. p. 4959; Gaz. vol. 139; p. 888.  
 Skirt-marker. J. L. McKissock. No. 919,921; Apr. 27; Sp. p. 6343; Gaz. vol. 141; p. 1084.  
 Skirt-marker. H. Wells and R. B. Meek. No. 922,740; May 25; Sp. p. 5445; Gaz. vol. 142; p. 958.  
 Skirt-marker. L. D'Elia. No. 923,029; May 25; Sp. p. 6039; Gaz. vol. 142; p. 1052.  
 Skirt-marker. D. Goodale. No. 923,166; June 1; Sp. p. 95; Gaz. vol. 143; p. 16.  
 Skirt-marker. R. Sideman. No. 923,902; June 8; Sp. p. 1793; Gaz. vol. 143; p. 298.  
 Skirt-marker. A. M. Meston. No. 926,276; June 29; Sp. p. 6686; Gaz. vol. 143; p. 1179.  
 Skirt-marker. W. J. Barlow. No. 929,649; Aug. 3; Sp. p. 6; Gaz. vol. 145; p. 4.  
 Skirt-marker. F. C. Luethy. No. 938,677; Nov. 2; Sp. p. 517; Gaz. vol. 148; p. 79.  
 Skirt-marker. S. E. C. Campbell. No. 942,375; Dec. 7; Sp. p. 718; Gaz. vol. 149; p. 117.  
 Skirt-marker. S. S. Moritz. No. 944,570; Dec. 28; Sp. p. 5485; Gaz. vol. 149; p. 952.  
 Skirt-marker. S. C. Sell and A. M. Filthorn. No. 944,639; Dec. 28; Sp. p. 5625; Gaz. vol. 149; p. 976.  
 Skirt-marker, Dressmaker's. F. H. J. Haamann. No. 920,133; May 4; Sp. p. 88; Gaz. vol. 142; p. 12.  
 Skirt-measuring device, Dressmaker's. M. Putney. No. 910,084; Jan. 19; Sp. p. 3325; Gaz. vol. 138; p. 612.  
 Skirt-regulator. T. M. Quisenberry. No. 929,787; Aug. 3; Sp. p. 327; Gaz. vol. 145; p. 56.  
 Skirt-supporter. A. W. Mader. No. 910,077; Jan. 19; Sp. p. 3314; Gaz. vol. 138; p. 610.  
 Skirt-supporter. C. B. Patterson. No. 937,852; Oct. 26; Sp. p. 4099; Gaz. vol. 147; p. 813.  
 Skirt-supporter and waist-holder. J. Sprague. No. 924,011; June 8; Sp. p. 2005; Gaz. vol. 143; p. 332.  
 Skirt-trimmer. E. O. Blechschmidt. No. 931,257; Aug. 17; Sp. p. 3454; Gaz. vol. 145; p. 599.  
 Skirts, Obtaining the correct lengths of. E. A. Howard. No. 917,439; Apr. 6; Sp. p. 956; Gaz. vol. 141; p. 166.  
 Skiving-machine. J. S. Turner. No. 922,214; May 18; Sp. p. 4365; Gaz. vol. 142; p. 759.  
 Skiving-machine. P. R. Glass. No. 924,657; June 15; Sp. p. 3363; Gaz. vol. 143; p. 580.  
 Skiving-machine. W. A. Parmenter and A. B. Alden. No. 944,103; Dec. 21; Sp. p. 4440; Gaz. vol. 149; p. 765.  
 Skiving-machine attachment. G. A. Henderson. No. 928,755; July 20; Sp. p. 4259; Gaz. vol. 144; p. 742.  
 Skiving-machine gage. M. Cavanagh. No. 920,823; May 4; Sp. p. 1480; Gaz. vol. 142; p. 239.  
 Skiving-machine pressure-roll. J. R. Scott. No. 916,037; Mar. 23; Sp. p. 4880; Gaz. vol. 140; p. 864.  
 Sky-rocket. A. L. Due. No. 917,027; Apr. 6; Sp. p. 140; Gaz. vol. 141; p. 27.  
 Sky-rocket. A. L. Due. No. 925,567; June 22; Sp. p. 5168; Gaz. vol. 143; p. 910.  
 Skylight. J. J. Maier. No. 918,876; Apr. 20; Sp. p. 3990; Gaz. vol. 141; p. 707.  
 Skylight and ventilator, Combination. M. W. Pehl. No. 913,556; Feb. 23; Sp. p. 5243; Gaz. vol. 139; p. 929.  
 Skylight and ventilator, Combined. B. G. Steele. No. 909,472; Jan. 12; Sp. p. 2099; Gaz. vol. 138; p. 373.  
 Skylight-bar. C. Schroeder. No. 924,943; June 15; Sp. p. 3960; Gaz. vol. 143; p. 676.  
 Skylight-ventilator. W. J. Smreka. No. 918,210; Apr. 13; Sp. p. 2541; Gaz. vol. 141; p. 453.  
 Slack-adjuster. J. H. Dodson. No. 914,024; Mar. 2; Sp. p. 811; Gaz. vol. 140; p. 124.  
 Slack-adjuster, Automatic. C. O. Anderson. No. 910,262; Jan. 19; Sp. p. 3734; Gaz. vol. 138; p. 674.  
 Slack-adjuster, Automatic. C. O. Anderson. No. 922,552; May 25; Sp. p. 5055; Gaz. vol. 142; p. 898.  
 Slack-adjuster, Automatic. C. O. Anderson. No. 923,927; June 8; Sp. p. 1832; Gaz. vol. 143; p. 306.  
 Slag, cinder, &c., Handling. J. B. Clark. No. 926,242; June 29; Sp. p. 6627; Gaz. vol. 143; p. 1169.  
 Slag from iron-furnaces for fertilizing purposes, Machine for reducing. M. J. Northbrooke. No. 918,768; Apr. 20; Sp. p. 3754; Gaz. vol. 141; p. 666.  
 Slag-handling apparatus. D. T. Croxton. No. 932,765; Aug. 31; Sp. p. 6648; Gaz. vol. 145; p. 1143.  
 Slag-handling table. D. T. Croxton. No. 934,998; Sept. 28; Sp. p. 4079; Gaz. vol. 146; p. 731.  
 Slag-net. J. B. Clark. No. 926,719; June 29; Sp. p. 7533; Gaz. vol. 143; p. 1325.  
 Slag, Treating. S. B. Ladd. No. 929,142; July 27; Sp. p. 5056; Gaz. vol. 144; p. 899.  
 Slags, Deoxidizing. O. Thallner. No. 936,382; Oct. 12; Sp. p. 1637; Gaz. vol. 147; p. 277.  
 Slate-picker. C. S. Farrer. No. 920,939; May 11; Sp. p. 1732; Gaz. vol. 142; p. 307.  
 Slate-picker. W. J. Owens. No. 944,904; Dec. 28; Sp. p. 6193; Gaz. vol. 149; p. 1065.  
 Sled. J. D. Bohanan. No. 913,193; Feb. 23; Sp. p. 4478; Gaz. vol. 139; p. 807.  
 Sled. C. D. Heinebaugh. No. 915,766; Mar. 23; Sp. p. 4378; Gaz. vol. 140; p. 777.  
 Sled. W. L. C. Chambers. No. 930,729; Aug. 10; Sp. p. 2271; Gaz. vol. 145; p. 395.  
 Sled. J. Z. Ducharme. No. 939,231; Nov. 9; Sp. p. 1704; Gaz. vol. 148; p. 295.  
 Sled, Bob-. A. Gunderson. No. 908,661; Jan. 6; Sp. p. 501; Gaz. vol. 138; p. 78.  
 Sled, Bob-. N. S. Doolittle. No. 917,755; Apr. 13; Sp. p. 1575; Gaz. vol. 141; p. 297.  
 Sled, Bob-. R. I. Cowden. No. 930,459; Aug. 10; Sp. p. 1682; Gaz. vol. 145; p. 304.  
 Sled, Bob-. N. Koopman. No. 937,943; Oct. 26; Sp. p. 4887; Gaz. vol. 147; p. 844.  
 Sled-brake. E. G. Doland. No. 930,055; Aug. 3; Sp. p. 915; Gaz. vol. 145; p. 147.  
 Sled-brake. W. H. Stevenson. No. 944,520; Dec. 28; Sp. p. 5368; Gaz. vol. 149; p. 935.  
 Sled-coupling. H. H. Mohr. No. 934,618; Sept. 21; Sp. p. 3319; Gaz. vol. 146; p. 578.  
 Sled, Depressible-runner dirigible. M. Walker. No. 940,221; Nov. 16; Sp. p. 3935; Gaz. vol. 148; p. 669.  
 Sled, Dirigible toboggan-runner. R. H. Doughty. No. 944,848; Dec. 28; Sp. p. 6087; Gaz. vol. 149; p. 1046.  
 Sled, Folding or collapsible. W. H. Coleman. No. 938,300; Oct. 26; Sp. p. 5665; Gaz. vol. 147; p. 965.  
 Sled-propeller. W. J. Wilson. No. 927,912; July 13; Sp. p. 2530; Gaz. vol. 144; p. 431.  
 Sled, Resilient. F. G. McPherson. No. 943,448; Dec. 14; Sp. p. 3044; Gaz. vol. 149; p. 511.  
 Sled-runner. C. M. Ford. No. 909,775; Jan. 12; Sp. p. 2697; Gaz. vol. 138; p. 477.  
 Sled-runner. D. L. Blocher. No. 943,513; Dec. 14; Sp. p. 3183; Gaz. vol. 149; p. 535.  
 Sled, Steerable. F. W. H. Clay. No. 944,773; Dec. 28; Sp. p. 5913; Gaz. vol. 149; p. 1020.  
 Sleds, Wheel attachment for. O. Fylling. No. 944,852; Dec. 28; Sp. p. 6094; Gaz. vol. 149; p. 1048.  
 Sleeper, Cast-iron. W. R. Houghton. No. 944,135; Dec. 21; Sp. p. 4522; Gaz. vol. 149; p. 776.  
 Sleeve-closure. W. S. Barker. No. 931,249; Aug. 17; Sp. p. 3438; Gaz. vol. 145; p. 596.  
 Sleeve-protector. H. Sacks. No. 925,952; June 22; Sp. p. 6000; Gaz. vol. 143; p. 1036.  
 Sleeve, Self-rolling. H. A. Davis. No. 917,931; Apr. 13; Sp. p. 1957; Gaz. vol. 141; p. 355.  
 Sleeve, Splicing-. H. Frankel. No. 922,690; May 25; Sp. p. 5342; Gaz. vol. 142; p. 943.  
 Sleigh. J. E. Hobbs. No. 917,431; Apr. 6; Sp. p. 942; Gaz. vol. 141; p. 164.  
 Sleigh and sled. J. Rantasa. No. 922,332; May 18; Sp. p. 4584; Gaz. vol. 142; p. 796.  
 Sleigh attachment. S. L. Charles. No. 939,666; Nov. 9; Sp. p. 2703; Gaz. vol. 148; p. 446.  
 Sleigh-bob. R. Pintsch. No. 912,050; Feb. 23; Sp. p. 4189; Gaz. vol. 139; p. 758.



*Alphabetical list of inventions—Continued.*

- Sleigh driving-wheel. C. H. C. Hakanson. No. 935,104; Sept. 28; Sp. p. 4296; Gaz. vol. 146; p. 767.  
 Sleigh-knee. P. Gossline. No. 918,441; Apr. 13; Sp. p. 2998; Gaz. vol. 141; p. 527.  
 Sleigh-knee. H. and H. Wesle. No. 933,510; Sept. 7; Sp. p. 1139; Gaz. vol. 146; p. 164.  
 Sleigh or bob for riding. D. Pelletier. No. 932,895; Aug. 31; Sp. p. 6895; Gaz. vol. 145; p. 1184.  
 Sleigh or go-cart, Convertible. H. E. Parker. No. 909,211; Jan. 12; Sp. p. 1607; Gaz. vol. 138; p. 289.  
 Sleigh propelling mechanism. J. D. Frye. No. 918,431; Apr. 13; Sp. p. 2975; Gaz. vol. 141; p. 524.  
 Sleigh-runner. W. E. Turner. No. 914,901; Mar. 9; Sp. p. 2613; Gaz. vol. 140; p. 437.  
 Sleigh-runner for vehicle-wheels. J. Karssen. No. 933,463; Sept. 7; Sp. p. 978; Gaz. vol. 146; p. 148.  
 Sleigh, Self-propelled. J. H. Hayes. No. 939,194; Nov. 2; Sp. p. 1593; Gaz. vol. 148; p. 258.  
 Slicer. F. P. Dunn. No. 914,645; Mar. 9; Sp. p. 2069; Gaz. vol. 140; p. 352.  
 Slicer, Fruit-. A. J. Curtis. No. 922,266; May 18; Sp. p. 4472; Gaz. vol. 142; p. 776.  
 Slicer, Vegetable-. E. P. Lang and C. J. Kalbe. No. 925,111; June 15; Sp. p. 4303; Gaz. vol. 143; p. 733.  
 Slicer, Vegetable-. G. L. Reenstierna. No. 940,063; Nov. 16; Sp. p. 3585; Gaz. vol. 148; p. 612.  
 Slicer, Vegetable-. G. L. Reenstierna. No. 940,064; Nov. 16; Sp. p. 3586; Gaz. vol. 148; p. 613.  
 Slicer, Vegetable-. V. Johnson. No. 940,252; Nov. 16; Sp. p. 3991; Gaz. vol. 148; p. 679.  
 Slicing and cutting machine, Vegetable. H. E. Madden. No. 944,491; Dec. 28; Sp. p. 5293; Gaz. vol. 149; p. 924.  
 Slicing device. J. J. Kaschibufske. No. 910,130; Jan. 19; Sp. p. 3418; Gaz. vol. 138; p. 626.  
 Slicing-machine. E. F. Smith. No. 908,896; Jan. 5; Sp. p. 957; Gaz. vol. 138; p. 153.  
 Slicing-machine. J. F. Nelsen. No. 910,219; Jan. 19; Sp. p. 3617; Gaz. vol. 138; p. 657.  
 Slicing-machine. A. Barth. No. 910,635; Jan. 26; Sp. p. 4529; Gaz. vol. 138; p. 835.  
 Slicing-machine. J. I. McCormick. No. 927,747; July 13; Sp. p. 2165; Gaz. vol. 144; p. 375.  
 Slicing-machine. L. E. Arnold. No. 930,021; Aug. 3; Sp. p. 839; Gaz. vol. 145; p. 135.  
 Slicing-machine. S. L. Garner. No. 940,867; Nov. 23; Sp. p. 5370; Gaz. vol. 148; p. 910.  
 Slicing-machine, Bread-. G. A. Kinder. No. 923,125; May 25; Sp. p. 6259; Gaz. vol. 142; p. 1083.  
 Slicing-machine, Bread-. J. G. Pierce. No. 935,925; Oct. 5; Sp. p. 697; Gaz. vol. 147; p. 102.  
 Slicing-machine, Fruit-. F. E. Caton. No. 931,843; Aug. 24; Sp. p. 4696; Gaz. vol. 145; p. 813.  
 Slicing-machine, Meat-. W. A. van Berkel. No. 920,506; May 4; Sp. p. 834; Gaz. vol. 142; p. 134.  
 Slicing-machine, Meat-. I. Heller. No. 939,417; Nov. 9; Sp. p. 2164; Gaz. vol. 148; p. 359.  
 Slicing machines, Slice-support for meat-. H. Thomas. No. 932,189; Aug. 24; Sp. p. 5456; Gaz. vol. 145; p. 928.  
 Slicing or chopping machine, Fruit and vegetable. W. H. Boutell. No. 943,965; Dec. 21; Sp. p. 4151; Gaz. vol. 149; p. 719.  
 Slide-bearing lubricator. F. P. Ide. No. 926,333; June 29; Sp. p. 6807; Gaz. vol. 143; p. 1197.  
 Sliding gate. G. P. James. No. 911,043; Feb. 2; Sp. p. 37; Gaz. vol. 139; p. 9.  
 Sliding gate. W. W. Wasden. No. 922,548; May 25; Sp. p. 5045; Gaz. vol. 142; p. 896.  
 Sliding gate. F. H. Doering. No. 940,134; Nov. 16; Sp. p. 3741; Gaz. vol. 148; p. 638.  
 Sliding gate. F. H. Doering. No. 941,628; Nov. 30; Sp. p. 6995; Gaz. vol. 148; p. 1183.  
 Sliding gate. J. M. Peterman. No. 942,408; Dec. 7; Sp. p. 786; Gaz. vol. 149; p. 128.  
 Slime-separator, Centrifugal. O. M. Kuchs. No. 943,083; Dec. 14; Sp. p. 2288; Gaz. vol. 149; p. 388.  
 Slimes in ore concentration, Method and apparatus for saving. J. N. Flood. No. 919,709; Apr. 27; Sp. p. 5897; Gaz. vol. 141; p. 1012.  
 Slip-coupling. E. J. Gulick. No. 923,043; May 25; Sp. p. 6067; Gaz. vol. 142; p. 1056.  
 Slip-holding clip. O. H. Root and A. H. Mooser. No. 934,936; Sept. 21; Sp. p. 3946; Gaz. vol. 146; p. 684.  
 Slip-indicator. G. A. Johnstone. No. 941,418; Nov. 30; Sp. p. 6576; Gaz. vol. 148; p. 1115.  
 Slipper or muzzle for drawing-on machines for drawing roll-covers. F. M. Morton and W. H. Dismuke. No. 929,154; July 27; Sp. p. 5078; Gaz. vol. 144; p. 902.  
 Slipper-package. M. Woodbury. No. 926,041; June 22; Sp. p. 6172; Gaz. vol. 143; p. 1066.  
 Slitting-machine. J. R. Pulsifer. No. 929,876; Aug. 3; Sp. p. 537; Gaz. vol. 145; p. 86.  
 Slitting mechanism. N. E. Clark. No. 930,349; Aug. 10; Sp. p. 1466; Gaz. vol. 145; p. 268.  
 Sliver-can. J. P. Crane. No. 923,493; June 1; Sp. p. 843; Gaz. vol. 143; p. 128.  
 Silver lap-machine. W. Harrop and P. F. Farrell. No. 919,008; Apr. 20; Sp. p. 4262; Gaz. vol. 141; p. 745.  
 Slot-machine. N. Gillies. No. 914,344; Mar. 2; Sp. p. 1458; Gaz. vol. 140; p. 227.  
 Slotting device. O. O. Storlie. No. 914,613; Mar. 9; Sp. p. 2015; Gaz. vol. 140; p. 343.  
 Slotting-machine. C. G. Curtis. No. 911,944; Feb. 9; Sp. p. 1794; Gaz. vol. 139; p. 330.  
 Slub detecting and removing mechanism. W. E. Morton. No. 935,676; Oct. 5; Sp. p. 110; Gaz. vol. 147; p. 19.  
 Slub detecting and removing mechanism. W. E. Morton. No. 944,898; Dec. 28; Sp. p. 6175; Gaz. vol. 149; p. 1063.  
 Slug-casting machine. J. R. Rogers. No. 924,939; June 15; Sp. p. 3950; Gaz. vol. 143; p. 675.  
 Slug-catcher. A. L. Willey. No. 917,692; Apr. 6; Sp. p. 1417; Gaz. vol. 141; p. 249.  
 Slugs or fastenings, Machine for inserting. G. A. Ambler. No. 908,437; Jan. 5; Sp. p. 2; Gaz. vol. 138; p. 3.  
 Small-arm. V. Venier. No. 937,396; Oct. 19; Sp. p. 3753; Gaz. vol. 147; p. 642.  
 Small-arm. J. Tambour. No. 939,112; Nov. 2; Sp. p. 1407; Gaz. vol. 148; p. 229.  
 Small-arm, Automatic. W. J. Whiting. No. 936,967; Oct. 12; Sp. p. 2833; Gaz. vol. 147; p. 472.  
 Small-arm automatic safety device. J. Tambour. No. 916,217; Mar. 23; Sp. p. 5203; Gaz. vol. 140; p. 921.  
 Small-arm breech mechanism. H. Borchardt. No. 918,951; Apr. 20; Sp. p. 4160; Gaz. vol. 141; p. 727.  
 Small-arm breech mechanism. K. J. Ebert. No. 924,224; June 8; Sp. p. 2484; Gaz. vol. 143; p. 403.  
 Small-arm, Recoil-operated. P. Mauser. No. 911,315; Feb. 2; Sp. p. 578; Gaz. vol. 139; p. 99.  
 Small-arm strikers or firing-bolts, Automatic safety device for. J. Tambour. No. 938,349; Oct. 26; Sp. p. 5765; Gaz. vol. 147; p. 981.  
 Small-arms, Adjustable wind-gauge rear sight for. W. Bennett. No. 922,077; May 18; Sp. p. 4085; Gaz. vol. 142; p. 714.  
 Smelter-furnace. J. P. Welch. No. 937,030; Oct. 12; Sp. p. 2968; Gaz. vol. 147; p. 493.  
 Smelting, Electric. E. R. Taylor. No. 938,352; Oct. 26; Sp. p. 5783; Gaz. vol. 147; p. 982.  
 Smelting-furnace. A. Koch. No. 915,192; Mar. 16; Sp. p. 3201; Gaz. vol. 140; p. 559.  
 Smelting-furnace. S. B. Ladd. No. 931,775; Aug. 24; Sp. p. 4560; Gaz. vol. 145; p. 792.  
 Smelting-furnace. C. and J. Debus. No. 934,892; Sept. 21; Sp. p. 3849; Gaz. vol. 146; p. 668.  
 Smelting-furnace, Electric. H. C. Harrison. No. 919,165; Apr. 20; Sp. p. 4542; Gaz. vol. 141; p. 794.  
 Smelting-furnace, Electric. C. E. Wilson. No. 921,325; May 11; Sp. p. 2528; Gaz. vol. 142; p. 438.  
 Smelting-furnace, Electric. E. R. Taylor. No. 938,351; Oct. 26; Sp. p. 5769; Gaz. vol. 147; p. 982.  
 Smelting furnace, Ore-. J. T. Jones. (Reissue.) No. 12,928; Mar. 16; Sp. p. 4281; Gaz. vol. 140; p. 736.  
 Smelting furnace, Ore-. W. Kemp. No. 936,781; Oct. 12; Sp. p. 2472; Gaz. vol. 147; p. 411.  
 Smelting-furnace, Transforming. H. Helberger. No. 932,986; Aug. 31; Sp. p. 7058; Gaz. vol. 145; p. 1213.  
 Smelting iron oxides. H. W. Lash. No. 924,677; June 15; Sp. p. 3407; Gaz. vol. 143; p. 586.  
 Smelting of iron oxides, Electric. H. W. Lash. No. 924,676; June 15; Sp. p. 3405; Gaz. vol. 143; p. 586.  
 Smelting ore. J. P. Welch. No. 937,031; Oct. 12; Sp. p. 2970; Gaz. vol. 147; p. 494.  
 Smelting, Pyritic. J. T. Carriek. No. 912,540; Feb. 16; Sp. p. 3143; Gaz. vol. 139; p. 564.  
 Smelting zinc ores. A. G. Betts. No. 918,648; Apr. 20; Sp. p. 3495; Gaz. vol. 141; p. 625.  
 Smoke and spark destroyer. G. Z. Gray. No. 911,817; Feb. 9; Sp. p. 1557; Gaz. vol. 139; p. 290.  
 Smoke, &c., Apparatus for condensing and purifying. S. I. Clawson. No. 922,260; May 18; Sp. p. 4464; Gaz. vol. 142; p. 774.  
 Smoke-bell hanger. O. C. Meadows. No. 920,599; May 4; Sp. p. 1022; Gaz. vol. 142; p. 166.  
 Smoke-bell support. L. S. Long. No. 920,164; May 4; Sp. p. 138; Gaz. vol. 142; p. 22.  
 Smoke-box superheater. M. Fischer. No. 934,151; Sept. 14; Sp. p. 2421; Gaz. vol. 146; p. 397.  
 Smoke-consumer. R. J. W. Dwinell. No. 918,518; Apr. 20; Sp. p. 3172; Gaz. vol. 141; p. 582.  
 Smoke-consumer. S. Hartmann. No. 933,301; Sept. 7; Sp. p. 612; Gaz. vol. 146; p. 94.  
 Smoke-consumer. S. H. North. No. 934,415; Sept. 14; Sp. p. 2910; Gaz. vol. 146; p. 486.  
 Smoke-consumer. A. Kohn. No. 944,196; Dec. 21; Sp. p. 4639; Gaz. vol. 149; p. 795.  
 Smoke-consumer. W. Acheson. No. 944,933; Dec. 28; Sp. p. 6250; Gaz. vol. 149; p. 1074.  
 Smoke-consuming furnace. L. A. Milbank. No. 908,476; Jan. 5; Sp. p. 89; Gaz. vol. 138; p. 16.  
 Smoke-consuming furnace. D. C. Walmsley. No. 910,032; Jan. 19; Sp. p. 3223; Gaz. vol. 138; p. 594.  
 Smoke-consuming furnace. R. L. Walker. No. 911,688; Feb. 9; Sp. p. 1329; Gaz. vol. 139; p. 247.  
 Smoke-consuming furnace. L. Yoksch. No. 912,223; Feb. 9; Sp. p. 2423; Gaz. vol. 139; p. 418.  
 Smoke-consuming furnace. R. Boersig. No. 916,910; Mar. 30; Sp. p. 6568; Gaz. vol. 140; p. 1171.  
 Smoke-consuming furnace. G. Cryser. No. 921,087; May 11; Sp. p. 2028; Gaz. vol. 142; p. 357.  
 Smoke-consuming furnace. P. J. Flanagan. No. 922,871; May 25; Sp. p. 5747; Gaz. vol. 142; p. 1001.  
 Smoke-consuming furnace. A. Gropengieszer. No. 929,212; July 27; Sp. p. 5194; Gaz. vol. 144; p. 921.  
 Smoke-consuming furnace. G. J. Laline. No. 930,423; Aug. 10; Sp. p. 1612; Gaz. vol. 145; p. 292.  
 Smoke-jack. F. J. Lauritzen. No. 920,763; May 4; Sp. p. 1346; Gaz. vol. 142; p. 219.  
 Smoke-preventer, Time-controlled. B. L. Ames. No. 942,131; Dec. 7; Sp. p. 223; Gaz. vol. 149; p. 34.

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- Smoke-preventer, Time-operated. B. L. Ames. No. 932,667; Aug. 31; Sp. p. 6442; Gaz. vol. 145; p. 1111.  
 Smoke-preventing apparatus. R. H. Burns. No. 936,088; Oct. 5; Sp. p. 1034; Gaz. vol. 147; p. 156.  
 Smoke-preventive apparatus. I. M. Sullivan. No. 941,547; Nov. 30; Sp. p. 6831; Gaz. vol. 148; p. 1157.  
 Smoke-producing device. H. and R. Pinegar. No. 928,695; July 20; Sp. p. 4145; Gaz. vol. 144; p. 722.  
 Smoke-shade hanger. G. Bible. No. 927,933; July 13; Sp. p. 2575; Gaz. vol. 144; p. 438.  
 Smoke-stack. C. P. Byers. No. 926,167; June 29; Sp. p. 6455; Gaz. vol. 143; p. 1144.  
 Smoke-stack. N. M. Scharnberg. No. 926,772; July 6; Sp. p. 131; Gaz. vol. 144; p. 21.  
 Smoke-tester, Plumbing. A. F. Philip. No. 933,922; Sept. 14; Sp. p. 1959; Gaz. vol. 146; p. 323.  
 Smoke-washer. J. Altenhofen. No. 942,430; Dec. 7; Sp. p. 825; Gaz. vol. 149; p. 135.  
 Smoker's article. J. H. Thomas. No. 918,928; Apr. 20; Sp. p. 4101; Gaz. vol. 141; p. 719.  
 Smoker's pipe. H. B. Saylor. No. 912,034; Feb. 9; Sp. p. 2068; Gaz. vol. 139; p. 360.  
 Smoker's pipe. P. Talarico. No. 924,508; June 8; Sp. p. 3033; Gaz. vol. 143; p. 496.  
 Smoker's pipe. T. J. Stockton. No. 935,867; Oct. 5; Sp. p. 573; Gaz. vol. 147; p. 83.  
 Smoking appliance. F. A. Tarara. No. 914,991; Mar. 9; Sp. p. 2752; Gaz. vol. 140; p. 464.  
 Smoking-pipe. R. L. Hustis. No. 909,903; Jan. 19; Sp. p. 2973; Gaz. vol. 138; p. 551.  
 Smoking-pipe. E. B. Whitney. No. 942,688; Dec. 7; Sp. p. 1355; Gaz. vol. 149; p. 243.  
 Smoking-pipe and making same. Corncomb. T. J. Tyner. No. 938,443; Oct. 26; Sp. p. 5987; Gaz. vol. 147; p. 1014.  
 Smoking-pipe, Dry. F. Müller. No. 914,498; Mar. 9; Sp. p. 1774; Gaz. vol. 140; p. 304.  
 Smoothing-iron. S. G. Buskard. No. 931,331; Aug. 17; Sp. p. 3728; Gaz. vol. 145; p. 643.  
 Smoothing-iron. J. A. Meyer. No. 933,490; Sept. 7; Sp. p. 1070; Gaz. vol. 146; p. 154.  
 Smoothing-iron. M. Imhoff. No. 944,732; Dec. 28; Sp. p. 5817; Gaz. vol. 149; p. 1006.  
 Smoothing-iron, Electric. A. O. Whitmore. No. 930,638; Aug. 10; Sp. p. 2093; Gaz. vol. 145; p. 365.  
 Smut-machine. R. J. Owens. No. 915,107; Mar. 16; Sp. p. 3009; Gaz. vol. 140; p. 531.  
 Snap. E. A. Benjamin. No. 932,673; Aug. 31; Sp. p. 6452; Gaz. vol. 145; p. 1113.  
 Snap. J. A. Stubblefield. No. 940,213; Nov. 16; Sp. p. 3918; Gaz. vol. 148; p. 666.  
 Snap, Breast-strap. W. Sedlacek. No. 942,289; Dec. 7; Sp. p. 560; Gaz. vol. 149; p. 88.  
 Snap-fastener. G. A. Holmes. No. 911,042; Feb. 2; Sp. p. 36; Gaz. vol. 139; p. 9.  
 Snap-fastener. G. A. Holmes. No. 918,325; Apr. 13; Sp. p. 2768; Gaz. vol. 141; p. 490.  
 Snap-fastener. T. R. Hyde, Jr. No. 920,063; Apr. 27; Sp. p. 6641; Gaz. vol. 141; p. 1130.  
 Snap-fastener. G. A. McCormack. No. 933,194; Sept. 7; Sp. p. 352; Gaz. vol. 146; p. 56.  
 Snap-fastener member. G. A. Holmes. No. 926,871; July 6; Sp. p. 353; Gaz. vol. 144; p. 56.  
 Snap-hook. F. W. Covert. No. 908,842; Jan. 5; Sp. p. 855; Gaz. vol. 138; p. 134.  
 Snap-hook. W. Gronke. No. 922,473; May 25; Sp. p. 4894; Gaz. vol. 142; p. 872.  
 Snap-hook. T. Forstner. No. 931,588; Aug. 17; Sp. p. 4111; Gaz. vol. 145; p. 708.  
 Snap-hook. G. M. Hubbard. No. 933,251; Sept. 7; Sp. p. 511; Gaz. vol. 146; p. 78.  
 Snap-hook. A. L. Strohl. No. 935,174; Sept. 28; Sp. p. 4426; Gaz. vol. 146; p. 789.  
 Snap-hook. T. D. Morrow. No. 939,531; Nov. 9; Sp. p. 2396; Gaz. vol. 148; p. 398.  
 Snap-hook. M. Maki. No. 939,727; Nov. 9; Sp. p. 2822; Gaz. vol. 148; p. 466.  
 Snap-hook and choke-strap connection, Combined. H. S. Burnett. No. 933,957; Sept. 14; Sp. p. 2026; Gaz. vol. 146; p. 334.  
 Snap-hook, Breast-strap. J. C. Covert. No. 908,843; Jan. 5; Sp. p. 857; Gaz. vol. 138; p. 135.  
 Snap-hook, Self-locking. A. B. Doering. No. 944,546; Dec. 28; Sp. p. 5428; Gaz. vol. 149; p. 944.  
 Snap-hook, Spring-tongue. F. W. Covert. No. 917,550; Apr. 6; Sp. p. 1158; Gaz. vol. 141; p. 202.  
 Snap-hook, Swivel. W. A. Schleicher. No. 940,738; Nov. 23; Sp. p. 5090; Gaz. vol. 148; p. 868.  
 Snap-switch. J. H. Wyatt. No. 921,050; May 11; Sp. p. 1941; Gaz. vol. 142; p. 344.  
 Snap-switch. J. H. Wyatt. No. 924,952; June 15; Sp. p. 3975; Gaz. vol. 143; p. 679.  
 Snap-switch. J. H. Wyatt. No. 930,449; Aug. 10; Sp. p. 1659; Gaz. vol. 145; p. 300.  
 Snap-switch, Rotary. G. W. Goodridge. No. 924,609; June 8; Sp. p. 3256; Gaz. vol. 143; p. 531.  
 Snap-switch, Two-pole. L. Kellner. No. 939,599; Nov. 9; Sp. p. 2560; Gaz. vol. 148; p. 420.  
 Snap-switch, Two-pole. L. Kellner. No. 943,831; Dec. 21; Sp. p. 3866; Gaz. vol. 149; p. 673.  
 Snare-curette. F. B. Black. No. 932,103; Aug. 24; Sp. p. 5275; Gaz. vol. 145; p. 899.  
 Snatch-block. E. Martin. No. 942,274; Dec. 7; Sp. p. 522; Gaz. vol. 149; p. 82.  
 Snelled-hook box. M. M. Schaney. No. 920,663; May 4; Sp. p. 1153; Gaz. vol. 142; p. 187.  
 Snow-clearing machine, Railway. F. C. Harris. No. 924,902; June 15; Sp. p. 3886; Gaz. vol. 143; p. 662.  
 Snow from streets and sidewalks, Machine for melting. H. E. Willis. No. 939,461; Nov. 9; Sp. p. 2253; Gaz. vol. 148; p. 374.  
 Snow-guard. J. Gery. No. 927,522; July 13; Sp. p. 1689; Gaz. vol. 144; p. 301.  
 Snow-guard. F. A. Peter. No. 933,784; Sept. 14; Sp. p. 1677; Gaz. vol. 146; p. 277.  
 Snow-guard for roofs. J. M. Laird. No. 939,516; Nov. 9; Sp. p. 2366; Gaz. vol. 148; p. 392.  
 Snow-melter. C. L. Moore. No. 942,337; Dec. 7; Sp. p. 654; Gaz. vol. 149; p. 104.  
 Snow-melting apparatus. J. B. d'Homergue. No. 933,837; Sept. 14; Sp. p. 1783; Gaz. vol. 146; p. 295.  
 Snow-melting machine. G. Dubois. No. 919,328; Apr. 27; Sp. p. 5090; Gaz. vol. 141; p. 883.  
 Snow-plow. W. J. McFarland. No. 925,717; June 22; Sp. p. 5494; Gaz. vol. 143; p. 958.  
 Snow-plow. J. W. Russell. No. 927,682; July 13; Sp. p. 2041; Gaz. vol. 144; p. 355.  
 Snow-plow. C. A. Bellrud. No. 931,559; Aug. 17; Sp. p. 4059; Gaz. vol. 145; p. 699.  
 Snow-plow. J. B. Martin. No. 932,154; Aug. 24; Sp. p. 5375; Gaz. vol. 145; p. 917.  
 Snow-plow. C. F. Dehn. No. 934,798; Sept. 21; Sp. p. 3673; Gaz. vol. 146; p. 638.  
 Snow-plow. A. Drowley and D. D. McLean. No. 937,428; Oct. 19; Sp. p. 3831; Gaz. vol. 147; p. 652.  
 Snow-plow and groove-cutter. S. D. Murphy. No. 929,318; July 27; Sp. p. 5463; Gaz. vol. 144; p. 958.  
 Snow-plow for sidewalks and highways. W. W. Cowan. No. 928,363; July 20; Sp. p. 3478; Gaz. vol. 144; p. 614.  
 Snow-remover. J. W. Weismantel. No. 929,737; Aug. 3; Sp. p. 213; Gaz. vol. 145; p. 37.  
 Snow-road-making machine. F. Alexander and B. A. Muncil. No. 937,561; Oct. 19; Sp. p. 4111; Gaz. vol. 147; p. 699.  
 Snow-shovel. R. Wolf. No. 925,789; June 22; Sp. p. 5665; Gaz. vol. 143; p. 983.  
 Snow-shovel. J. Gifford. No. 930,660; Aug. 10; Sp. p. 2136; Gaz. vol. 145; p. 373.  
 Snow-shovel. G. C. Port. No. 941,271; Nov. 23; Sp. p. 6243; Gaz. vol. 148; p. 1045.  
 Snow-sweeper. W. J. Cooke. No. 942,888; Dec. 14; Sp. p. 1820; Gaz. vol. 149; p. 321.  
 Soap, Antiseptic. W. A. Beaty. No. 942,538; Dec. 7; Sp. p. 1072; Gaz. vol. 149; p. 173.  
 Soap, &c., Apparatus for the manufacture of rosin. A. W. Carmichael. No. 909,058; Jan. 5; Sp. p. 1273; Gaz. vol. 138; p. 205.  
 Soap-dish. T. C. Colton. No. 910,785; Jan. 26; Sp. p. 4825; Gaz. vol. 138; p. 872.  
 Soap-dispensing apparatus, Liquid-. E. M. Frank and J. H. Venners. No. 925,629; June 22; Sp. p. 5298; Gaz. vol. 143; p. 931.  
 Soap-dispensing attachment for washstands, Toilet-. G. A. Schmidt. No. 923,447; June 1; Sp. p. 757; Gaz. vol. 143; p. 447.  
 Soap for washing, cleaning, and bleaching purposes, Substitute for. P. Mausolf. No. 941,158; Nov. 23; Sp. p. 5988; Gaz. vol. 148; p. 1007.  
 Soap-granulator. R. L. Edwards, Jr. No. 936,101; Oct. 5; Sp. p. 1056; Gaz. vol. 147; p. 161.  
 Soap-holder. W. R. Vandewerker. No. 914,619; Mar. 9; Sp. p. 2028; Gaz. vol. 140; p. 345.  
 Soap-holder. P. W. Smith. No. 915,495; Mar. 16; Sp. p. 3779; Gaz. vol. 140; p. 657.  
 Soap-holder. J. J. McNally. No. 915,876; Mar. 23; Sp. p. 4570; Gaz. vol. 140; p. 811.  
 Soap-holder. L. M. Pitsch. No. 919,946; Apr. 27; Sp. p. 6383; Gaz. vol. 141; p. 1091.  
 Soap-holder. W. M. Parker. No. 925,943; June 22; Sp. p. 5984; Gaz. vol. 143; p. 1033.  
 Soap holder, Liquid-. H. W. Burgner. No. 922,453; May 25; Sp. p. 4845; Gaz. vol. 142; p. 865.  
 Soap-making apparatus. A. H. Pritchard. No. 910,083; Jan. 19; Sp. p. 3323; Gaz. vol. 138; p. 611.  
 Soap-making apparatus. W. A. Grant. No. 939,906; Nov. 9; Sp. p. 3204; Gaz. vol. 148; p. 528.  
 Soap, &c., Manufacture of rosin. A. W. Carmichael. No. 908,951; Jan. 5; Sp. p. 1056; Gaz. vol. 138; p. 170.  
 Soap or mixtures containing soap, Manufacture of. M. R. A. Samuel and A. A. Lockwood. No. 918,705; Apr. 20; Sp. p. 3640; Gaz. vol. 141; p. 645.  
 Soap powder, Production of. W. Lürling. No. 940,398; Nov. 16; Sp. p. 4361; Gaz. vol. 148; p. 729.  
 Soap-press. J. A. Keyes. No. 910,543; Jan. 26; Sp. p. 4321; Gaz. vol. 138; p. 793.  
 Soap receptacle, Liquid-. E. E. Ellmann. No. 924,046; June 8; Sp. p. 2059; Gaz. vol. 143; p. 343.  
 Soap receptacle, Liquid-. E. E. Ellmann. No. 924,047; June 8; Sp. p. 2061; Gaz. vol. 143; p. 343.  
 Soap-shaving device. F. Egge. No. 916,125; Mar. 23; Sp. p. 5039; Gaz. vol. 140; p. 893.  
 Soap, Toilet cleaning-. R. Lyon. No. 932,152; Aug. 24; Sp. p. 5372; Gaz. vol. 145; p. 916.  
 Soaps containing peroxides, Manufacture of. R. F. Wolfenstein. No. 917,828; Apr. 13; Sp. p. 1741; Gaz. vol. 141; p. 320.  
 Sock and garter, Combined. L. O. Gitchell. No. 942,552; Dec. 7; Sp. p. 1096; Gaz. vol. 149; p. 178.  
 Sock-supporter. S. W. Bishop. No. 914,380; Mar. 9; Sp. p. 1558; Gaz. vol. 140; p. 265.  
 Socks, Excluder for elastic. F. W. Savage. No. 942,671; Dec. 7; Sp. p. 1325; Gaz. vol. 149; p. 218.



*Alphabetical list of inventions—Continued.*

- Socket-fastener. E. L. Miller. No. 922,936; May 25; Sp. p. 5868; Gaz. vol. 142; p. 1022.
- Socket-piece for studding, &c. W. P. Rice. No. 936,945; Oct. 12; Sp. p. 2786; Gaz. vol. 147; p. 465.
- Socket, Pull-. J. R. Byrne. No. 916,975; Apr. 6; Sp. p. 25; Gaz. vol. 141; p. 8.
- Socket-wrench. C. W. McDaniel. No. 920,372; May 4; Sp. p. 573; Gaz. vol. 142; p. 92.
- Sockets, Detachable chain-guide for pull-. H. Hubbell. No. 943,077; Dec. 14; Sp. p. 2279; Gaz. vol. 149; p. 386.
- Sod-cutting tool. M. Harris. No. 944,859; Dec. 28; Sp. p. 6112; Gaz. vol. 149; p. 1050.
- Soda-fountains, Automatic syrup delivery for. A. R. Gross. No. 932,386; Aug. 24; Sp. p. 5809; Gaz. vol. 145; p. 993.
- Soda-fountains, Syrup-pump for. H. L. Snediker. No. 940,991; Nov. 23; Sp. p. 5612; Gaz. vol. 148; p. 951.
- Soda-water apparatus, Valve-fitting for. P. Bunin. No. 934,037; Sept. 14; Sp. p. 2165; Gaz. vol. 146; p. 358.
- Sodium carbonate, Manufacture of hydrated. W. E. Ridenour. No. 912,622; Feb. 16; Sp. p. 3314; Gaz. vol. 139; p. 594.
- Sodium peroxid, Treating. D. E. Parker. No. 935,542; Sept. 28; Sp. p. 5182; Gaz. vol. 146; p. 909.
- Sodium salt of lactalbumin, Making a neutral. E. Fischer and F. Bergell. No. 941,773; Nov. 30; Sp. p. 7320; Gaz. vol. 148; p. 1233.
- Sodium sulfate and sulfuric acid, Making. O. Zahn. No. 921,329; May 11; Sp. p. 2541; Gaz. vol. 142; p. 440.
- Sodium sulfate, Making. J. D. Pennock. No. 922,031; May 18; Sp. p. 4003; Gaz. vol. 142; p. 699.
- Sodium sulfid. E. H. Strickler. No. 915,633; Mar. 16; Sp. p. 4083; Gaz. vol. 140; p. 705.
- Sodium sulfid, Making infusible. W. Hasenbach. No. 914,271; Mar. 2; Sp. p. 1318; Gaz. vol. 140; p. 204.
- Sofa and bed, Combined. W. J. Fountain. No. 932,264; Aug. 24; Sp. p. 5589; Gaz. vol. 145; p. 953.
- Sofa or settee and pool or billiard table, Combined. J. N. McIntire. No. 921,725; May 18; Sp. p. 3362; Gaz. vol. 142; p. 598.
- Soils, quicksand, &c., Consolidating loose. A. Wolfsholz. No. 935,081; Sept. 28; Sp. p. 4246; Gaz. vol. 146; p. 759.
- Solar attachment. G. N. Saegmuller. No. 917,799; Apr. 13; Sp. p. 1677; Gaz. vol. 141; p. 311.
- Solder, Aluminum-. J. Wirgovits. No. 941,835; Nov. 30; Sp. p. 7465; Gaz. vol. 148; p. 1255.
- Solder-edged caps, Forming. C. W. Graham. No. 924,452; June 8; Sp. p. 2917; Gaz. vol. 143; p. 478.
- Solder for aluminum. Z. Tamassy. No. 931,523; Aug. 17; Sp. p. 3993; Gaz. vol. 145; p. 688.
- Solder for aluminum. J. F. Guggenbuhl. No. 933,433; Sept. 7; Sp. p. 883; Gaz. vol. 146; p. 138.
- Solder for aluminum. L. Goppman. No. 939,494; Nov. 9; Sp. p. 2322; Gaz. vol. 148; p. 385.
- Solder to rims of caps for cans, Machine for applying. R. Flanagan. No. 942,494; Dec. 7; Sp. p. 979; Gaz. vol. 149; p. 158.
- Soldering-clamp, Jeweler's. W. C. Clow. No. 920,111; May 4; Sp. p. 34; Gaz. vol. 142; p. 5.
- Soldering cord chains. K. F. Ungerer and E. Becker. No. 944,640; Dec. 28; Sp. p. 5626; Gaz. vol. 149; p. 976.
- Soldering device. F. S. Chapman. No. 934,711; Sept. 21; Sp. p. 3497; Gaz. vol. 146; p. 609.
- Soldering device. H. G. Mead. No. 944,805; Dec. 28; Sp. p. 5989; Gaz. vol. 149; p. 1031.
- Soldering, Flux for use in. W. Ackermann. No. 940,111; Nov. 16; Sp. p. 3096; Gaz. vol. 148; p. 630.
- Soldering-furnace. E. T. Burgess. No. 942,245; Dec. 7; Sp. p. 467; Gaz. vol. 149; p. 72.
- Soldering-iron. A. P. Olmstead. No. 926,708; June 29; Sp. p. 7494; Gaz. vol. 143; p. 1322.
- Soldering-iron. H. Marshall. No. 933,318; Sept. 7; Sp. p. 644; Gaz. vol. 146; p. 100.
- Soldering-iron, Electric. T. Van Aller. No. 925,056; June 15; Sp. p. 4198; Gaz. vol. 143; p. 715.
- Soldering-iron for can-capping machines, Electrically-heated. M. H. Johnson. No. 934,539; Sept. 21; Sp. p. 3151; Gaz. vol. 146; p. 550.
- Soldering-iron, Self-heating. A. Husson. No. 932,865; Aug. 31; Sp. p. 6841; Gaz. vol. 145; p. 1174.
- Soldering-iron, Self-heating. W. G. Landells and H. J. Hucksion. No. 937,449; Oct. 19; Sp. p. 3879; Gaz. vol. 147; p. 660.
- Soldering-machine. C. W. Graham. No. 920,320; May 4; Sp. p. 474; Gaz. vol. 142; p. 74.
- Soldering-machine. C. W. Graham. No. 924,453; June 8; Sp. p. 2919; Gaz. vol. 143; p. 478.
- Soldering-machine. W. M. Holloway. No. 941,147; Nov. 23; Sp. p. 5969; Gaz. vol. 148; p. 1004.
- Soldering machine, Can-. H. K. Smith. No. 925,045; June 15; Sp. p. 4182; Gaz. vol. 143; p. 711.
- Soldering machine, Can-. G. H. Stewart. No. 926,618; June 29; Sp. p. 7321; Gaz. vol. 143; p. 1292.
- Soldering machine, Can-. E. F. Hartlove. No. 937,524; Oct. 19; Sp. p. 4039; Gaz. vol. 147; p. 686.
- Soldering machine, Can-. C. W. Sleeper. No. 939,104; Nov. 2; Sp. p. 1384; Gaz. vol. 148; p. 226.
- Soldering machine, Can-cap-. J. A. Conbole. No. 935,462; Sept. 28; Sp. p. 4991; Gaz. vol. 146; p. 882.
- Soldering-machine, Electrically-heated. M. H. Johnson. No. 934,538; Sept. 21; Sp. p. 3149; Gaz. vol. 146; p. 549.
- Soldering-stick. L. R. Benson. No. 923,934; June 8; Sp. p. 1844; Gaz. vol. 143; p. 307.
- Soldering-tool. E. L. Seaman. No. 924,110; June 8; Sp. p. 2173; Gaz. vol. 143; p. 363.
- Soldering-tool. J. L. and O. G. Nilsson. No. 929,473; July 27; Sp. p. 5736; Gaz. vol. 144; p. 1007.
- Soldering-tool. L. Schennitz. No. 936,816; Oct. 12; Sp. p. 2532; Gaz. vol. 147; p. 423.
- Soldering-tool, Automatic. B. F. White. No. 941,218; Nov. 23; Sp. p. 6130; Gaz. vol. 148; p. 1027.
- Soldering-tool, Self-heating. J. Wise. No. 930,010; Aug. 3; Sp. p. 823; Gaz. vol. 145; p. 132.
- Sole and heel plate. M. C. McCunn. No. 917,476; Apr. 6; Sp. p. 1023; Gaz. vol. 141; p. 178.
- Sole-channeling machine. E. A. Webster. No. 916,381; Mar. 23; Sp. p. 5505; Gaz. vol. 140; p. 977.
- Sole-edge-burnishing machine. Z. Beaudry. No. 931,558; Aug. 17; Sp. p. 4056; Gaz. vol. 145; p. 699.
- Sole-edge-trimming machine. C. W. Musso. No. 920,488; May 4; Sp. p. 788; Gaz. vol. 142; p. 128.
- Sole, Galvanic. F. Kennedy and J. V. Davis. No. 931,068; Aug. 17; Sp. p. 3051; Gaz. vol. 145; p. 534.
- Sole-gouging machine. J. Busfield. No. 933,820; Sept. 14; Sp. p. 1745; Gaz. vol. 146; p. 290.
- Sole-leveling machine. J. H. Rigby. No. 916,021; Mar. 23; Sp. p. 4852; Gaz. vol. 140; p. 853.
- Sole-leveling machine. J. H. Rigby. No. 925,509; June 22; Sp. p. 5059; Gaz. vol. 143; p. 891.
- Sole-leveling machine. C. L. Parker and W. C. Collier. No. 939,621; Nov. 9; Sp. p. 2599; Gaz. vol. 148; p. 428.
- Sole-leveling machine. H. A. Webster. No. 940,627; Nov. 16; Sp. p. 4831; Gaz. vol. 148; p. 805.
- Sole-plate and means for fastening it to the foot of the wearer, Non-slipping. R. E. Blacklock. No. 919,118; Apr. 20; Sp. p. 4460; Gaz. vol. 141; p. 779.
- Sole-pressing machine. B. F. Mayo. No. 918,573; Apr. 20; Sp. p. 3284; Gaz. vol. 141; p. 598.
- Sole-pressing machine. H. A. Davenport. No. 930,272; Aug. 3; Sp. p. 1317; Gaz. vol. 145; p. 218.
- Sole-pressing machine. E. E. Winkley. No. 932,220; Aug. 24; Sp. p. 5508; Gaz. vol. 145; p. 938.
- Sole-pressing machine. E. E. Winkley. No. 939,462; Nov. 9; Sp. p. 2256; Gaz. vol. 148; p. 375.
- Sole-pressing machine. T. H. A. Holt. No. 944,620; Dec. 28; Sp. p. 5589; Gaz. vol. 149; p. 970.
- Sole-pressing pad. H. A. Davenport. No. 942,133; Dec. 7; Sp. p. 229; Gaz. vol. 149; p. 35.
- Sole-rounding machine. B. F. Mayo and I. C. Buckminster. No. 911,511; Feb. 2; Sp. p. 923; Gaz. vol. 139; p. 162.
- Sole-rounding machines, Knife-mounting for. C. P. Stanbon. No. 944,386; Dec. 28; Sp. p. 5043; Gaz. vol. 149; p. 887.
- Sole, Shoe-. R. C. Ross. No. 913,167; Feb. 23; Sp. p. 4426; Gaz. vol. 139; p. 798.
- Sole stamping and slitting machine. G. E. Ward. No. 921,573; May 11; Sp. p. 3024; Gaz. vol. 142; p. 519.
- Sole, tap, &c., holding rack. P. J. McGrath. No. 917,643; Apr. 6; Sp. p. 1326; Gaz. vol. 141; p. 234.
- Soles, Arch-shank for shoe-. T. F. and C. E. Eaton. No. 921,379; May 11; Sp. p. 2657; Gaz. vol. 142; p. 457.
- Soles, Device for size-marking boot and shoe. W. F. Essick. No. 922,116; May 18; Sp. p. 4157; Gaz. vol. 142; p. 727.
- Soles for boots and shoes, Making. O. C. Davis. No. 938,829; Nov. 2; Sp. p. 817; Gaz. vol. 148; p. 131.
- Soles, Machine for impressing the edges of shoe-. L. W. G. Flynt. No. 934,434; Sept. 21; Sp. p. 2961; Gaz. vol. 146; p. 516.
- Solenoid. C. J. Anderson. No. 919,672; Apr. 27; Sp. p. 5830; Gaz. vol. 141; p. 1000.
- Solenoid-switch. A. W. Berresford. No. 935,733; Oct. 5; Sp. p. 230; Gaz. vol. 147; p. 37.
- Solenoid-switch, Rocking. A. T. Marshall. No. 936,648; Oct. 12; Sp. p. 2217; Gaz. vol. 147; p. 367.
- Solid bodies from liquids by cooling, Apparatus for separating. P. Porges and R. Neumann. No. 914,183; Mar. 2; Sp. p. 1136; Gaz. vol. 140; p. 178.
- Solid matter and liquids, Agitating and separating mixtures of. J. T. Carrick. No. 912,541; Feb. 16; Sp. p. 3145; Gaz. vol. 139; p. 564.
- Solid substances from liquids, Vacuum drum-filter for separating. H. Hencke. No. 915,436; Mar. 16; Sp. p. 3665; Gaz. vol. 140; p. 638.
- Solids from liquids, Apparatus for separating. F. E. and A. S. Elmore. No. 919,144; Apr. 20; Sp. p. 4515; Gaz. vol. 141; p. 788.
- Solitaire-board. F. E. S. Smith. No. 942,667; Dec. 7; Sp. p. 1320; Gaz. vol. 149; p. 217.
- Solution and precipitation processes, Apparatus for use in. W. Hommel. No. 918,749; Apr. 20; Sp. p. 3721; Gaz. vol. 141; p. 660.
- Solutions, Apparatus for concentrating. E. Monti. No. 940,644; Nov. 16; Sp. p. 4868; Gaz. vol. 148; p. 810.
- Solutions, Concentrating. E. Monti. No. 919,616; Apr. 27; Sp. p. 5709; Gaz. vol. 141; p. 982.
- Sorting-machine. C. Harzer. No. 935,976; Oct. 5; Sp. p. 805; Gaz. vol. 147; p. 119.
- Sorting-machine. A. Picken. No. 941,270; Nov. 23; Sp. p. 6232; Gaz. vol. 148; p. 1045.
- Sound-box. W. J. Tanner. No. 908,625; Jan. 5; Sp. p. 407; Gaz. vol. 138; p. 66.
- Sound-box. G. Osten. No. 913,153; Feb. 23; Sp. p. 4389; Gaz. vol. 139; p. 793.
- Sound-box. W. A. Chapman. No. 943,339; Dec. 14; Sp. p. 2815; Gaz. vol. 149; p. 474.
- Sound-box, Counterbalanced. W. N. Dennison. No. 927,505; July 13; Sp. p. 1643; Gaz. vol. 144; p. 295.
- Sound-box for recording and reproducing machines. W. W. Zackey. No. 930,715; Aug. 10; Sp. p. 2241; Gaz. vol. 145; p. 390.
- Sound-box for sound recording and reproducing machines. J. C. English. No. 940,794; Nov. 23; Sp. p. 5225; Gaz. vol. 148; p. 887.
- Sound-box for sound recording and reproducing machines. J. C. English. No. 940,796; Nov. 23; Sp. p. 5231; Gaz. vol. 148; p. 887.
- Sound-box needle-holder. M. A. Possons. No. 931,957; Aug. 24; Sp. p. 4971; Gaz. vol. 145; p. 851.

*Alphabetical list of inventions—Continued.*

- Sound-damper. E. Renz. No. 914,879; Mar. 9; Sp. p. 2576; Gaz. vol. 140; p. 430.
- Sound-intensifier. A. Nikiforoff. No. 920,624; May 4; Sp. p. 1071; Gaz. vol. 142; p. 174.
- Sound-locating device. J. B. Taylor. No. 939,349; Nov. 9; Sp. p. 1989; Gaz. vol. 148; p. 337.
- Sound-modifier. A. N. Pierman. No. 917,654; Apr. 6; Sp. p. 1345; Gaz. vol. 141; p. 237.
- Sound-producing instrument. F. Gottschalk. No. 928,651; July 20; Sp. p. 4060; Gaz. vol. 144; p. 707.
- Sound-record. P. W. Fuller. No. 934,601; Sept. 21; Sp. p. 3276; Gaz. vol. 146; p. 571.
- Sound-record composition. J. W. Aylsworth. No. 944,474; Dec. 28; Sp. p. 5243; Gaz. vol. 149; p. 918.
- Sound-record mold. J. W. Aylsworth. No. 932,237; Aug. 24; Sp. p. 5541; Gaz. vol. 145; p. 944.
- Sound-records, Making. J. O. Prescott and L. J. Schramek. No. 913,765; Mar. 2; Sp. p. 185; Gaz. vol. 140; p. 31.
- Sound-records, Production of double-faced. F. L. Capps. No. 941,975; Nov. 30; Sp. p. 7737; Gaz. vol. 148; p. 1303.
- Sound-recorder. C. R. Borland. No. 911,937; Feb. 9; Sp. p. 1782; Gaz. vol. 139; p. 328.
- Sound, Recording. G. K. Cheney. No. 941,010; Nov. 23; Sp. p. 5666; Gaz. vol. 148; p. 957.
- Sound-recording apparatus. G. K. Cheney. No. 941,011; Nov. 23; Sp. p. 5669; Gaz. vol. 148; p. 957.
- Sound-recording apparatus. T. A. Edison. No. 943,664; Dec. 21; Sp. p. 3538; Gaz. vol. 149; p. 616.
- Sound-regulator. W. W. Young. No. 940,109; Nov. 16; Sp. p. 3692; Gaz. vol. 148; p. 629.
- Sound-reproducer. R. B. Smith. No. 908,897; Jan. 5; Sp. p. 959; Gaz. vol. 138; p. 153.
- Sound-reproducer. R. B. Smith. No. 925,846; June 22; Sp. p. 5790; Gaz. vol. 143; p. 1002.
- Sound-reproducer. A. N. Pierman. No. 940,051; Nov. 16; Sp. p. 3552; Gaz. vol. 148; p. 608.
- Sound-reproducing apparatus. W. O. C. Ellis. No. 918,303; Apr. 13; Sp. p. 2724; Gaz. vol. 141; p. 483.
- Sound-reproducing apparatus. W. O. C. Ellis. No. 918,304; Apr. 13; Sp. p. 2726; Gaz. vol. 141; p. 483.
- Sound-reproducing apparatus. W. O. C. Ellis. No. 918,487; Apr. 13; Sp. p. 3093; Gaz. vol. 141; p. 542.
- Sound-reproducing apparatus. J. Noll. No. 919,293; Apr. 20; Sp. p. 4995; Gaz. vol. 141; p. 837.
- Sound-reproducing apparatus. O. G. Rose. No. 921,465; May 11; Sp. p. 2818; Gaz. vol. 142; p. 484.
- Sound-reproducing-apparatus cabinet. O. G. Rose. No. 916,604; Mar. 30; Sp. p. 5996; Gaz. vol. 140; p. 1076.
- Sound-reproducing instrument. W. H. McCurdy. No. 909,645; Jan. 12; Sp. p. 2441; Gaz. vol. 138; p. 433.
- Sound-reproducing instrument. O. G. Rose. No. 916,603; Mar. 30; Sp. p. 5995; Gaz. vol. 140; p. 1075.
- Sound-reproducing instruments, Attachment for the horns of. O. G. Rose. No. 912,735; Feb. 16; Sp. p. 3583; Gaz. vol. 139; p. 632.
- Sound-reproducing machine. C. I. Lamb. No. 908,778; Jan. 5; Sp. p. 731; Gaz. vol. 138; p. 114.
- Sound-reproducing machine. L. T. Haile. No. 919,856; Apr. 27; Sp. p. 6222; Gaz. vol. 141; p. 1061.
- Sound-reproducing machine. L. T. Haile. No. 924,456; June 8; Sp. p. 2931; Gaz. vol. 143; p. 480.
- Sound-reproducing machine. J. Wellner. No. 928,567; July 20; Sp. p. 3875; Gaz. vol. 144; p. 678.
- Sound-reproducing machine. M. Keen. No. 929,859; Aug. 3; Sp. p. 505; Gaz. vol. 145; p. 81.
- Sound-reproducing machine. F. C. Goodale. No. 914,608; Dec. 28; Sp. p. 5570; Gaz. vol. 149; p. 966.
- Sound-reproducing-machine attachment. T. P. Reed. No. 925,025; June 15; Sp. p. 4142; Gaz. vol. 143; p. 704.
- Sound-reproducing-machine record. R. M. Hunter. No. 937,680; Oct. 19; Sp. p. 4322; Gaz. vol. 147; p. 736.
- Sound-reproducing-machine records, Manufacture of. R. L. Gibson. No. 943,631; Dec. 14; Sp. p. 3452; Gaz. vol. 149; p. 575.
- Sound-reproducing machines, Automatic needle-disengaging and stop mechanism for. G. A. Oppenheimer. No. 936,348; Oct. 12; Sp. p. 1546; Gaz. vol. 147; p. 265.
- Sound-reproducing machines, Feeding device and brake for. F. Sheppy. No. 929,253; July 27; Sp. p. 5270; Gaz. vol. 144; p. 934.
- Sound-reproducing machines, Record for. E. M. Berliner. No. 936,976; Oct. 12; Sp. p. 2851; Gaz. vol. 147; p. 475.
- Sound-reproducing record. E. Leschbrandt. No. 908,683; Jan. 5; Sp. p. 539; Gaz. vol. 138; p. 84.
- Sound-signals in water, Device for producing. H. B. Gale. No. 935,750; Oct. 5; Sp. p. 270; Gaz. vol. 147; p. 43.
- Sound transmitter and receiver. A. J. Mundy. No. 921,141; May 11; Sp. p. 2133; Gaz. vol. 142; p. 375.
- Sound-vibrations, Means for signaling or effecting operations by means of. J. Gardner. No. 913,372; Feb. 23; Sp. p. 4840; Gaz. vol. 139; p. 867.
- Sound-vibrations, Recording. P. W. Fuller. No. 934,600; Sept. 21; Sp. p. 3272; Gaz. vol. 146; p. 570.
- Sound-waves, Device for transmitting. R. Nirenberg. No. 929,623; July 27; Sp. p. 6031; Gaz. vol. 144; p. 1056.
- Sounds, Apparatus for receiving submarine. T. A. Garrett and W. Lucas. No. 942,897; Dec. 14; Sp. p. 1838; Gaz. vol. 149; p. 324.
- Sounding-machine, Navigational. W. Thomson. No. 923,384; June 1; Sp. p. 619; Gaz. vol. 143; p. 91.
- Sounding-machine, Navigational. W. Thomson. No. 928,007; July 13; Sp. p. 2709; Gaz. vol. 144; p. 462.
- Sounding-tackle. O. Gutt and F. H. C. Heyn. No. 938,143; Oct. 26; Sp. p. 5321; Gaz. vol. 147; p. 910.
- Soundings, Gage for deep-sea. J. Mel and L. T. Jones, Jr. No. 934,741; Sept. 21; Sp. p. 3550; Gaz. vol. 146; p. 619.
- Souvenir. E. C. Richmond. No. 926,440; June 23; Sp. p. 7003; Gaz. vol. 143; p. 1233.
- Sower, Seed-. S. A. Plummer. No. 940,891; Nov. 23; Sp. p. 5420; Gaz. vol. 148; p. 918.
- Sowing machine, Seed-. A. Soto. No. 933,134; Sept. 7; Sp. p. 201; Gaz. vol. 146; p. 34.
- Sowing machine, Seed-. J. H. Morris. No. 944,897; Dec. 28; Sp. p. 6173; Gaz. vol. 149; p. 1063.
- Soy or sauce substitute, Manufacturing. K. Okazaki. No. 923,070; May 25; Sp. p. 6139; Gaz. vol. 142; p. 1065.
- Spacer. J. M. Campbell. No. 927,110; July 6; Sp. p. 865; Gaz. vol. 144; p. 138.
- Spacing-machine. G. P. Thomas. No. 908,819; Jan. 5; Sp. p. 805; Gaz. vol. 138; p. 126.
- Spade. E. M. Skinner. No. 926,146; June 29; Sp. p. 6401; Gaz. vol. 143; p. 1136.
- Spade. W. L. Iwan. No. 932,866; Aug. 31; Sp. p. 6843; Gaz. vol. 145; p. 1174.
- Spade or shovel blade. H. Dahlmann. No. 942,616; Dec. 7; Sp. p. 1220; Gaz. vol. 149; p. 199.
- Spades or other tools, Means for attaching shafts to. E. C. M. W. Stjernstedt. No. 941,286; Nov. 23; Sp. p. 6275; Gaz. vol. 148; p. 1050.
- Spangle cutting and attaching machine. G. W. Bingham. No. 940,229; Nov. 16; Sp. p. 3945; Gaz. vol. 148; p. 671.
- Spanner, Adjustable. P. P. Strömberg. No. 940,625; Nov. 16; Sp. p. 4824; Gaz. vol. 148; p. 804.
- Spanner or the like. P. G. Tacchi. No. 912,507; Feb. 16; Sp. p. 3053; Gaz. vol. 139; p. 552.
- Spanner-wrench. F. H. Caven. No. 922,258; May 18; Sp. p. 4461; Gaz. vol. 142; p. 774.
- Spanner-wrench. L. R. Hoffman. No. 943,935; Dec. 21; Sp. p. 4096; Gaz. vol. 149; p. 709.
- Spark-arrester. J. E. Knight. No. 909,610; Jan. 12; Sp. p. 2374; Gaz. vol. 138; p. 421.
- Spark-arrester. F. J. Pierce. No. 909,660; Jan. 12; Sp. p. 2474; Gaz. vol. 138; p. 439.
- Spark-arrester. G. Dam. No. 918,290; Apr. 13; Sp. p. 2702; Gaz. vol. 141; p. 479.
- Spark-arrester. D. M. Ryan. No. 918,703; Apr. 20; Sp. p. 3637; Gaz. vol. 141; p. 644.
- Spark-arrester. H. Liechty. No. 930,200; Aug. 3; Sp. p. 1202; Gaz. vol. 145; p. 196.
- Spark-arrester. L. A. Thompson. No. 934,479; Sept. 21; Sp. p. 3046; Gaz. vol. 146; p. 531.
- Spark-arrester. E. L. Ridgway. No. 939,444; Nov. 9; Sp. p. 2218; Gaz. vol. 148; p. 369.
- Spark-arrester. L. A. Coleman. No. 940,955; Nov. 23; Sp. p. 5551; Gaz. vol. 148; p. 939.
- Spark arrester and extinguisher. A. W. Graham. No. 944,237; Dec. 21; Sp. p. 4709; Gaz. vol. 149; p. 807.
- Spark-arrester attachment. P. M. Low. No. 911,827; Feb. 9; Sp. p. 1573; Gaz. vol. 139; p. 292.
- Spark-arresting appliance for lignite-burning locomotives. W. P. Steele, J. Player, and C. J. Mellin. No. 934,767; Sept. 21; Sp. p. 3597; Gaz. vol. 146; p. 627.
- Spark-arresting appliance for lignite-burning locomotives. W. Dalton. No. 934,795; Sept. 21; Sp. p. 3667; Gaz. vol. 146; p. 637.
- Spark-coil. J. O. Heinze, Jr. No. 909,594; Jan. 12; Sp. p. 2341; Gaz. vol. 138; p. 415.
- Spark-distributor. E. Deniéport. No. 934,715; Sept. 21; Sp. p. 3506; Gaz. vol. 146; p. 610.
- Spark gap and plug, Combination. A. L. Ryder. No. 933,115; Sept. 7; Sp. p. 161; Gaz. vol. 146; p. 27.
- Spark ignition system, Jump-. E. S. Lincoln. No. 917,736; Apr. 6; Sp. p. 1506; Gaz. vol. 141; p. 264.
- Spark-indicator. F. W. Brandow. No. 926,976; July 6; Sp. p. 560; Gaz. vol. 144; p. 92.
- Spark-plug. H. F. Parker. No. 913,045; Feb. 23; Sp. p. 4182; Gaz. vol. 139; p. 757.
- Spark-plug. C. Bateholts. No. 913,453; Feb. 23; Sp. p. 5008; Gaz. vol. 139; p. 895.
- Spark-plug. F. H. Weinbauer. No. 913,595; Feb. 23; Sp. p. 5320; Gaz. vol. 139; p. 942.
- Spark-plug. A. V. Pellet. No. 914,451; Mar. 9; Sp. p. 1687; Gaz. vol. 140; p. 289.
- Spark-plug. F. J. Watt. No. 914,540; Mar. 9; Sp. p. 1872; Gaz. vol. 140; p. 318.
- Spark-plug. E. Santsche. No. 915,485; Mar. 16; Sp. p. 3761; Gaz. vol. 140; p. 654.
- Spark-plug. J. G. Shea. No. 915,896; Mar. 23; Sp. p. 4615; Gaz. vol. 140; p. 818.
- Spark-plug. A. W. S. Herrington. No. 916,313; Mar. 23; Sp. p. 5378; Gaz. vol. 140; p. 954.
- Spark-plug. G. P. B. Hoyt. No. 916,871; Mar. 30; Sp. p. 6478; Gaz. vol. 140; p. 1157.
- Spark-plug. F. Bartl. No. 918,726; Apr. 20; Sp. p. 3682; Gaz. vol. 141; p. 653.
- Spark-plug. J. W. Brown, Jr. No. 919,123; Apr. 20; Sp. p. 4473; Gaz. vol. 141; p. 781.
- Spark-plug. T. Winestock. No. 919,276; Apr. 20; Sp. p. 4961; Gaz. vol. 141; p. 831.
- Spark-plug. A. A. Davis. No. 919,425; Apr. 27; Sp. p. 5296; Gaz. vol. 141; p. 916.
- Spark-plug. F. H. Weinbauer. No. 920,702; May 4; Sp. p. 1255; Gaz. vol. 142; p. 200.
- Spark-plug. F. W. Smith. No. 925,239; June 15; Sp. p. 4546; Gaz. vol. 143; p. 776.
- Spark-plug. A. Clarke. No. 930,351; Aug. 10; Sp. p. 1469; Gaz. vol. 145; p. 269.



*Alphabetical list of inventions—Continued.*

- Spark-plug. W. M. Sleaford. No. 932,338; Aug. 24; Sp. p. 5729; Gaz. vol. 145; p. 977.
- Spark-plug. J. C. Anderson. No. 936,507; Oct. 12; Sp. p. 1926; Gaz. vol. 147; p. 318.
- Spark-plug. O. C. Winestock. No. 937,908; Oct. 26; Sp. p. 4812; Gaz. vol. 147; p. 832.
- Spark-plug. W. S. Bechtold. No. 938,108; Oct. 26; Sp. p. 5239; Gaz. vol. 147; p. 899.
- Spark-plug. F. H. Weinbauer. No. 938,188; Oct. 26; Sp. p. 5429; Gaz. vol. 147; p. 926.
- Spark-plug. A. Helwig. No. 940,594; Nov. 16; Sp. p. 4765; Gaz. vol. 148; p. 794.
- Spark-plug. C. A. Martin. No. 941,157; Nov. 23; Sp. p. 5986; Gaz. vol. 148; p. 1007.
- Spark-plug, High-tension. J. and W. Sharp. No. 935,931; Oct. 5; Sp. p. 709; Gaz. vol. 147; p. 104.
- Spark-plug indicator. A. C. Hall. No. 930,855; Aug. 10; Sp. p. 2532; Gaz. vol. 145; p. 437.
- Spark-plug protecting-hood. R. W. Burnham. No. 920,429; May 4; Sp. p. 694; Gaz. vol. 142; p. 109.
- Spark-timer. H. W. Gabel. No. 916,694; Mar. 30; Sp. p. 6165; Gaz. vol. 140; p. 1104.
- Sparker. G. A. Weidely. No. 928,484; July 20; Sp. p. 3710; Gaz. vol. 144; p. 653.
- Sparkling device. D. D. Peebles and A. R. Thompson. No. 917,651; Apr. 6; Sp. p. 1340; Gaz. vol. 141; p. 236.
- Sparkling igniter. L. H. Wattles. No. 909,264; Jan. 12; Sp. p. 1697; Gaz. vol. 138; p. 306.
- Sparkling mechanism. R. C. Marks. No. 934,978; Sept. 21; Sp. p. 4028; Gaz. vol. 146; p. 700.
- Sparkling plug. R. C. Browne. No. 920,257; May 4; Sp. p. 342; Gaz. vol. 142; p. 54.
- Sparkling plug for hydrocarbon-motors. A. A. Low. No. 927,255; July 6; Sp. p. 1146; Gaz. vol. 144; p. 186.
- Speaking-tube. W. F. Simpson. No. 928,554; July 20; Sp. p. 3851; Gaz. vol. 144; p. 674.
- Spectacle and pince-nez frame. H. P. Frost. No. 932,978; Aug. 31; Sp. p. 7044; Gaz. vol. 145; p. 1211.
- Spectacle contact-pad. W. G. Fay. No. 915,757; Mar. 23; Sp. p. 4360; Gaz. vol. 140; p. 775.
- Spectacle-frames, Manufacturing. R. H. Simonds. No. 931,508; Aug. 17; Sp. p. 3968; Gaz. vol. 145; p. 684.
- Spectacle-temple. S. C. Laffin. No. 931,776; Aug. 24; Sp. p. 4562; Gaz. vol. 145; p. 792.
- Spectacles. J. Savoie. No. 915,487; Mar. 16; Sp. p. 3765; Gaz. vol. 140; p. 655.
- Spectacles, eyeglasses, and the like. S. S. Lawrence. No. 943,085; Dec. 14; Sp. p. 2294; Gaz. vol. 149; p. 389.
- Spectacles, Frameless. J. Savoie. No. 926,293; June 29; Sp. p. 6716; Gaz. vol. 143; p. 1184.
- Spectulum. C. H. Borden. No. 922,845; May 25; Sp. p. 5665; Gaz. vol. 142; p. 993.
- Speculum. Mouth-. G. J. Reed. No. 925,380; June 15; Sp. p. 4793; Gaz. vol. 143; p. 819.
- Speed-adjuster. L. R. Culver. No. 922,674; May 25; Sp. p. 5305; Gaz. vol. 142; p. 937.
- Speed apparatus, Variable-. E. C. Marble. No. 938,679; Nov. 2; Sp. p. 521; Gaz. vol. 148; p. 80.
- Speed-changing device. C. N. Payne. No. 929,977; Aug. 3; Sp. p. 748; Gaz. vol. 145; p. 120.
- Speed-changing device. D. O. James. No. 941,925; Nov. 30; Sp. p. 7639; Gaz. vol. 148; p. 1286.
- Speed-changing mechanism. B. Gmür. No. 912,559; Feb. 16; Sp. p. 3180; Gaz. vol. 139; p. 570.
- Speed-changing mechanism. L. Chevrolet. No. 919,538; Apr. 27; Sp. p. 5549; Gaz. vol. 141; p. 954.
- Speed-changing mechanism. F. C. Brunhouse. No. 921,078; May 11; Sp. p. 2014; Gaz. vol. 142; p. 354.
- Speed-changing mechanism. W. O. Foss. No. 928,648; July 20; Sp. p. 4056; Gaz. vol. 144; p. 706.
- Speed-changing mechanism. R. Symmonds. No. 929,997; Aug. 3; Sp. p. 796; Gaz. vol. 145; p. 127.
- Speed-changing mechanism. F. C. Brunhouse. No. 936,300; Oct. 12; Sp. p. 1431; Gaz. vol. 147; p. 249.
- Speed-changing mechanism. W. A. Pringle. No. 937,034; Oct. 12; Sp. p. 2979; Gaz. vol. 147; p. 495.
- Speed-changing mechanism. G. D. Munsing. No. 937,320; Oct. 19; Sp. p. 3572; Gaz. vol. 147; p. 617.
- Speed-changing mechanism. G. D. Munsing. No. 937,321; Oct. 19; Sp. p. 3576; Gaz. vol. 147; p. 618.
- Speed-changing mechanism. E. H. R. Barton. No. 942,192; Dec. 7; Sp. p. 356; Gaz. vol. 149; p. 54.
- Speed-changing mechanism. E. E. Keller. No. 942,910; Dec. 14; Sp. p. 1869; Gaz. vol. 149; p. 329.
- Speed-changing mechanism. E. E. Keller. No. 942,911; Dec. 14; Sp. p. 1872; Gaz. vol. 149; p. 329.
- Speed-changing mechanism. E. E. Keller. No. 942,912; Dec. 14; Sp. p. 1878; Gaz. vol. 149; p. 330.
- Speed-changing mechanism. E. E. Keller. No. 942,914; Dec. 14; Sp. p. 1887; Gaz. vol. 149; p. 330.
- Speed cone and pulley, Change-. W. E. and P. Rowlands. No. 944,636; Dec. 28; Sp. p. 5619; Gaz. vol. 149; p. 975.
- Speed-controller. W. J. Seitz. No. 922,525; May 25; Sp. p. 4990; Gaz. vol. 142; p. 888.
- Speed-controller and power-transmitter, Fluid-clutch. R. E. Newcomb. No. 923,565; June 1; Sp. p. 1011; Gaz. vol. 143; p. 155.
- Speed-controller, Automatic. C. E. Palmer. No. 924,266; June 8; Sp. p. 2564; Gaz. vol. 143; p. 417.
- Speed-controller, Automatic. W. A. Loomis. No. 940,979; Nov. 23; Sp. p. 5593; Gaz. vol. 148; p. 947.
- Speed-controlling device. J. W. Jones. No. 919,588; Apr. 27; Sp. p. 5659; Gaz. vol. 141; p. 972.
- Speed-controlling device. C. E. Palmer. No. 927,159; July 6; Sp. p. 952; Gaz. vol. 144; p. 154.
- Speed-controlling mechanism. A. M. Wolf. No. 928,727; July 20; Sp. p. 4200; Gaz. vol. 144; p. 732.
- Speed device, Variable-. W. F. Main. No. 939,427; Nov. 9; Sp. p. 2190; Gaz. vol. 148; p. 363.
- Speed driving mechanism, Variable-. P. T. Kenny. No. 936,326; Oct. 12; Sp. p. 1493; Gaz. vol. 147; p. 258.
- Speed-gage. O. D. Munn and J. K. Brachvogel. No. 932,885; Aug. 31; Sp. p. 6881; Gaz. vol. 145; p. 1182.
- Speed-indicating and distance-recording mechanism. T. M. Foote. No. 937,231; Oct. 19; Sp. p. 3400; Gaz. vol. 147; p. 589.
- Speed-indicating machine. S. A. Campbell. No. 927,828; July 13; Sp. p. 2336; Gaz. vol. 144; p. 403.
- Speed indicating or recording device. W. H. Bristol. No. 939,209; Nov. 9; Sp. p. 1634; Gaz. vol. 148; p. 288.
- Speed-indicator. H. Poth. No. 908,495; Jan. 5; Sp. p. 123; Gaz. vol. 138; p. 23.
- Speed-indicator. D. Miller. No. 910,404; Jan. 19; Sp. p. 4029; Gaz. vol. 138; p. 723.
- Speed-indicator. C. A. Jacques. No. 914,145; Mar. 2; Sp. p. 1046; Gaz. vol. 140; p. 165.
- Speed-indicator. W. W. Dudley, L. A. Greenleaf, and W. R. Dudley. No. 917,267; Apr. 6; Sp. p. 636; Gaz. vol. 141; p. 108.
- Speed-indicator. V. Link. No. 917,322; Apr. 6; Sp. p. 756; Gaz. vol. 141; p. 128.
- Speed-indicator. A. L. R. Ellis. No. 926,861; July 6; Sp. p. 331; Gaz. vol. 144; p. 53.
- Speed-indicator. H. Dahl and M. Martin. No. 928,635; July 20; Sp. p. 4026; Gaz. vol. 144; p. 702.
- Speed-indicator. C. Knopf. No. 933,467; Sept. 7; Sp. p. 990; Gaz. vol. 146; p. 149.
- Speed-indicator. W. Schaufelberger. No. 938,898; Nov. 2; Sp. p. 984; Gaz. vol. 148; p. 155.
- Speed-indicator. J. B. Waring. No. 944,709; Dec. 28; Sp. p. 5770; Gaz. vol. 149; p. 998.
- Speed indicator and recorder. A. E. Voss. No. 919,657; Apr. 27; Sp. p. 5803; Gaz. vol. 141; p. 995.
- Speed-indicator governor. A. Grossmann. No. 941,516; Nov. 30; Sp. p. 6773; Gaz. vol. 148; p. 1147.
- Speed-indicator, Self-timing. K. Weiss. No. 916,512; Mar. 30; Sp. p. 5832; Gaz. vol. 140; p. 1046.
- Speed-limiting device. W. D. Pomeroy and A. L. McHugh. No. 934,211; Sept. 14; Sp. p. 2525; Gaz. vol. 146; p. 417.
- Speed-measuring machine. D. F. Comstock and H. T. Kalmus. No. 942,132; Dec. 7; Sp. p. 228; Gaz. vol. 149; p. 35.
- Speed mechanism, Change-. C. B. Elmore. No. 941,506; Nov. 30; Sp. p. 6749; Gaz. vol. 148; p. 1144.
- Speed mechanism, Variable-. A. W. Pupka. No. 908,697; Jan. 5; Sp. p. 562; Gaz. vol. 138; p. 88.
- Speed mechanism, Variable-. A. L. De Leeuw. No. 911,951; Feb. 9; Sp. p. 1809; Gaz. vol. 139; p. 333.
- Speed mechanism, Variable-. P. N. Ramsey. No. 912,487; Feb. 16; Sp. p. 3013; Gaz. vol. 139; p. 545.
- Speed mechanism, Variable-. A. L. De Leeuw. No. 914,643; Mar. 9; Sp. p. 2067; Gaz. vol. 140; p. 352.
- Speed mechanism, Variable-. H. W. Schatz. No. 918,773; Apr. 20; Sp. p. 3765; Gaz. vol. 141; p. 668.
- Speed mechanism, Variable-. J. A. Goodner and A. P. Kendig. No. 921,233; May 11; Sp. p. 2327; Gaz. vol. 142; p. 408.
- Speed mechanism, Variable-. T. J. Bianchi. No. 923,321; June 1; Sp. p. 494; Gaz. vol. 143; p. 70.
- Speed mechanism, Variable-. S. B. Gray. No. 923,788; June 1; Sp. p. 1535; Gaz. vol. 143; p. 231.
- Speed mechanism, Variable-. C. L. Grohmann. No. 927,525; July 13; Sp. p. 1693; Gaz. vol. 144; p. 302.
- Speed mechanism, Variable-. A. G. Mather. No. 928,679; July 20; Sp. p. 4113; Gaz. vol. 144; p. 717.
- Speed mechanism, Variable-. R. E. Rosewarne. No. 936,363; Oct. 12; Sp. p. 1556; Gaz. vol. 147; p. 270.
- Speed mechanism, Variable-. A. F. Rockwell. No. 942,220; Dec. 7; Sp. p. 413; Gaz. vol. 149; p. 63.
- Speed motor, Variable-. J. Burke. No. 913,691; Mar. 2; Sp. p. 22; Gaz. vol. 140; p. 6.
- Speed of prime movers and motors, Means for regulating the. E. Meckelburg. No. 922,175; May 18; Sp. p. 4267; Gaz. vol. 142; p. 745.
- Speed of prime movers, especially turbines, Method and device for electrically regulating the. F. von Merkl. No. 908,474; Jan. 5; Sp. p. 80; Gaz. vol. 138; p. 16.
- Speed power transmission, Variable-. L. G. Bayrer. No. 932,843; Aug. 31; Sp. p. 6800; Gaz. vol. 145; p. 1166.
- Speed-recorder. A. Turner. No. 909,482; Jan. 12; Sp. p. 2121; Gaz. vol. 138; p. 376.
- Speed-recorder. G. A. Lee. No. 912,003; Feb. 9; Sp. p. 2003; Gaz. vol. 139; p. 350.
- Speed-recorder. E. A. Henkle and C. H. de La Monte. No. 914,834; Mar. 9; Sp. p. 2479; Gaz. vol. 140; p. 415.
- Speed-recorder. E. A. Henkle and C. H. de La Monte. No. 914,835; Mar. 9; Sp. p. 2486; Gaz. vol. 140; p. 415.
- Speed-recorder. C. H. de La Monte and E. A. Henkle. No. 914,850; Mar. 9; Sp. p. 2513; Gaz. vol. 140; p. 420.
- Speed-recorder and curve-drawing instrument. L. T. Robinson and C. C. Badeau. No. 919,640; Apr. 27; Sp. p. 5752; Gaz. vol. 141; p. 990.
- Speed-recording device. H. M. P. Murphy. No. 920,487; May 4; Sp. p. 786; Gaz. vol. 142; p. 128.
- Speed-regulating and brake mechanism. F. C. Craw. No. 928,182; July 13; Sp. p. 3049; Gaz. vol. 144; p. 521.
- Speed-regulating mechanism. G. F. Leiger. (Reissue.) No. 13,021; Sept. 14; Sp. p. 2934; Gaz. vol. 146; p. 490.
- Speed-regulator. J. E. Whittaker. No. 944,394; Dec. 28; Sp. p. 5062; Gaz. vol. 149; p. 890.



*Alphabetical list of inventions—Continued.*

- Speed-regulator and brake, Combined. W. N. Dennison. No. 927,504; July 13; Sp. p. 1639; Gaz. vol. 144; p. 295.
- Speed reversing mechanism, Variable. C. E. Henriod. No. 919,576; Apr. 27; Sp. p. 5631; Gaz. vol. 141; p. 967.
- Speed transmission device, Variable. J. R. Anderson. No. 910,983; Jan. 26; Sp. p. 5188; Gaz. vol. 138; p. 935.
- Speed transmission device, Variable. R. Janney. No. 924,787; June 15; Sp. p. 3641; Gaz. vol. 143; p. 624.
- Speed transmission mechanism, Changeable. A. L. Slee. No. 939,643; Nov. 9; Sp. p. 2647; Gaz. vol. 148; p. 437.
- Speed-varying mechanism. A. C. Smith. No. 942,416; Dec. 7; Sp. p. 799; Gaz. vol. 149; p. 130.
- Speedometer. J. H. Bullard. No. 925,992; June 22; Sp. p. 6071; Gaz. vol. 143; p. 1050.
- Speedometer. J. H. and E. W. Bullard. No. 935,583; Sept. 28; Sp. p. 5264; Gaz. vol. 146; p. 923.
- Speedometer. E. Schneider. No. 938,278; Oct. 26; Sp. p. 5597; Gaz. vol. 147; p. 957.
- Speedometer. H. C. Berry. No. 941,223; Nov. 23; Sp. p. 6140; Gaz. vol. 148; p. 1029.
- Speedometer. W. R. Harris. No. 942,497; Dec. 7; Sp. p. 989; Gaz. vol. 149; p. 159.
- Speedometer. J. H. Bullard. No. 944,538; Dec. 28; Sp. p. 5411; Gaz. vol. 149; p. 941.
- Speedometer attachment. J. W. Jones. No. 908,775; Jan. 5; Sp. p. 726; Gaz. vol. 138; p. 113.
- Speedometer-indicators, &c., Maximum-hand for. J. W. Jones. No. 925,814; June 22; Sp. p. 5721; Gaz. vol. 143; p. 991.
- Sphygmomanometer. L. F. Bishop and R. Grace. No. 915,329; Mar. 16; Sp. p. 3453; Gaz. vol. 140; p. 602.
- Spice-box. E. Frank. No. 939,825; Nov. 9; Sp. p. 3033; Gaz. vol. 148; p. 500.
- Spigot-guard. S. B. Davis and E. H. Rabiger. No. 937,570; Oct. 19; Sp. p. 4125; Gaz. vol. 147; p. 702.
- Spike. J. W. Balfour. No. 925,264; June 15; Sp. p. 4587; Gaz. vol. 143; p. 784.
- Spike. C. D. Walcott. No. 927,301; July 6; Sp. p. 1221; Gaz. vol. 144; p. 201.
- Spike-holder. H. O. Crippen. No. 941,621; Nov. 30; Sp. p. 6981; Gaz. vol. 148; p. 1181.
- Spike-puller. R. F. Bramstadt. No. 925,557; June 22; Sp. p. 5147; Gaz. vol. 143; p. 907.
- Spike-puller. G. K. Reiley. No. 932,903; Aug. 31; Sp. p. 6906; Gaz. vol. 145; p. 1186.
- Spike-puller. W. F. Scott. No. 942,415; Dec. 7; Sp. p. 798; Gaz. vol. 149; p. 130.
- Spike-puller. D. Smith. No. 944,920; Dec. 28; Sp. p. 6224; Gaz. vol. 149; p. 1070.
- Spindle: *See* Axle-spindle; Cap-spindle; Knob-spindle; Lathe-spindle; Rotatable spindle; Spinning-spindle.
- Spindle. F. Seymour. No. 909,465; Jan. 12; Sp. p. 2085; Gaz. vol. 138; p. 371.
- Spindle. J. R. Coe. No. 914,794; Mar. 9; Sp. p. 2398; Gaz. vol. 140; p. 402.
- Spindle. C. S. and J. H. Foster. No. 921,218; May 11; Sp. p. 2298; Gaz. vol. 142; p. 403.
- Spindle. J. N. Kelsea. No. 922,912; May 25; Sp. p. 5814; Gaz. vol. 142; p. 1014.
- Spindle appearance. I. E. Palmer. No. 913,044; Feb. 23; Sp. p. 4180; Gaz. vol. 139; p. 756.
- Spindle-bands, Tension-regulating device for. J. S. Berard. No. 941,183; Nov. 23; Sp. p. 6056; Gaz. vol. 148; p. 1016.
- Spindle bobbin-clutching means, Rotatable. P. E. McCullough. No. 916,358; Mar. 23; Sp. p. 5462; Gaz. vol. 140; p. 969.
- Spindle, Compound. F. Seymour. No. 936,672; Oct. 12; Sp. p. 2260; Gaz. vol. 147; p. 376.
- Spindle-driving bands, Mechanism for guiding and applying tension to. J. Boyd. No. 940,502; Nov. 16; Sp. p. 4575; Gaz. vol. 148; p. 764.
- Spindle-locking mechanism. L. Thiel. No. 914,527; Mar. 9; Sp. p. 1840; Gaz. vol. 140; p. 313.
- Spindle machine, Multiple. G. Mellis. No. 921,721; May 18; Sp. p. 3353; Gaz. vol. 142; p. 597.
- Spinning and doubling frames, &c., Apparatus applicable to ring. G. Mongne. No. 910,838; Jan. 26; Sp. p. 4925; Gaz. vol. 138; p. 889.
- Spinning and doubling machine spindle. W. T. Smith. No. 911,170; Feb. 2; Sp. p. 289; Gaz. vol. 139; p. 51.
- Spinning and doubling machinery. J. Robertson. No. 937,647; Oct. 19; Sp. p. 4261; Gaz. vol. 147; p. 727.
- Spinning and like machinery, Thread-guide for cotton-. J. and E. Appleby. No. 942,362; Dec. 7; Sp. p. 697; Gaz. vol. 149; p. 113.
- Spinning and twisting machine. C. E. Lombard. No. 937,450; Oct. 19; Sp. p. 3881; Gaz. vol. 147; p. 660.
- Spinning and twisting machine, Rotary ring. C. T. Atherton. No. 913,654; Feb. 23; Sp. p. 5460; Gaz. vol. 139; p. 961.
- Spinning and twisting machine thread-board and thread-guide support. H. G. Beede. No. 910,450; Jan. 19; Sp. p. 4127; Gaz. vol. 138; p. 740.
- Spinning and twisting machine thread-guide. J. E. Prest. No. 910,312; Jan. 19; Sp. p. 3841; Gaz. vol. 138; p. 692.
- Spinning and winding machine. A. J. and H. A. Foulds. No. 911,815; Feb. 9; Sp. p. 1550; Gaz. vol. 139; p. 288.
- Spinning, Apparatus for washing vegetable fibers for. E. Nemethy. No. 934,564; Sept. 21; Sp. p. 3201; Gaz. vol. 146; p. 558.
- Spinning apparatus, Traverse-motion for yarn-. A. E. Rhoades. No. 941,648; Nov. 30; Sp. p. 7028; Gaz. vol. 148; p. 1189.
- Spinning apparatus, Traverse-motion for yarn-. A. E. Rhoades. No. 941,649; Nov. 30; Sp. p. 7036; Gaz. vol. 148; p. 1190.
- Spinning apparatus, Traverse-motion for yarn-. A. E. Rhoades. No. 941,650; Nov. 30; Sp. p. 7043; Gaz. vol. 148; p. 1190.
- Spinning, apparatus, Yarn-. A. E. Rhoades. No. 913,164; Feb. 23; Sp. p. 4409; Gaz. vol. 139; p. 797.
- Spinning, doubling, and like textile machine. S. Z. de Ferranti. No. 938,375; Oct. 26; Sp. p. 5532; Gaz. vol. 147; p. 990.
- Spinning, doubling, and the like, Apparatus for. S. Z. de Ferranti. No. 930,848; Aug. 10; Sp. p. 2510; Gaz. vol. 145; p. 435.
- Spinning, doubling, and twisting machine. F. Seymour. No. 909,466; Jan. 12; Sp. p. 2086; Gaz. vol. 138; p. 371.
- Spinning, doubling, and twisting machines, Lappet or thread-board for. J. W. Cook. No. 920,026; Apr. 27; Sp. p. 6548; Gaz. vol. 141; p. 1117.
- Spinning-frame attachment. C. N. Childs. No. 921,797; May 18; Sp. p. 3509; Gaz. vol. 142; p. 623.
- Spinning-frame attachment, Ring-. A. A. Lovejoy. No. 932,482; Aug. 31; Sp. p. 6035; Gaz. vol. 145; p. 1047.
- Spinning-frame detachable implement. W. J. Willett. No. 916,940; Mar. 30; Sp. p. 6634; Gaz. vol. 140; p. 1182.
- Spinning frame, Ring-. H. C. Hockenjos. No. 917,865; Apr. 13; Sp. p. 1816; Gaz. vol. 141; p. 332.
- Spinning frames, Disintegrating and delivering magazine for travelers for ring-. A. A. Lovejoy. No. 917,086; Apr. 6; Sp. p. 251; Gaz. vol. 141; p. 46.
- Spinning frames, Receptacle for travelers for ring-. L. S. Burbank. No. 928,177; July 13; Sp. p. 3041; Gaz. vol. 144; p. 519.
- Spinning-machine. T. A. Harrington and A. Barrie. No. 910,377; Jan. 19; Sp. p. 3974; Gaz. vol. 138; p. 714.
- Spinning-machine attachment, Twine-. E. C. Williams. No. 931,827; Aug. 24; Sp. p. 4663; Gaz. vol. 145; p. 808.
- Spinning-machine speed-changing device. F. H. McDevitt and A. Walton. No. 941,645; Nov. 30; Sp. p. 7022; Gaz. vol. 148; p. 1188.
- Spinning-machine thread-board cleaner. R. W. Eaton. No. 919,704; Apr. 27; Sp. p. 5890; Gaz. vol. 141; p. 1011.
- Spinning-machine thread-guide. J. W. Cook. No. 919,697; Apr. 27; Sp. p. 5877; Gaz. vol. 141; p. 1009.
- Spinning-machine traveler, Ring-. V. D'August and N. Deck. No. 924,325; June 8; Sp. p. 2687; Gaz. vol. 143; p. 437.
- Spinning-machine weight-strap. E. Dixon. No. 912,651; Feb. 16; Sp. p. 3355; Gaz. vol. 139; p. 603.
- Spinning machines, Holder for travelers used in cotton-. J. H. Cobb and G. T. Fleming. No. 925,298; June 15; Sp. p. 4652; Gaz. vol. 143; p. 794.
- Spinning-mules, Reversing mechanism for the band-cylinders of. J. H. Ryalls. No. 942,752; Dec. 7; Sp. p. 1486; Gaz. vol. 149; p. 244.
- Spinning or twisting machine. H. G. Beede. No. 916,977; Apr. 6; Sp. p. 28; Gaz. vol. 141; p. 9.
- Spinning or twisting machine. W. P. Wood. No. 928,830; July 20; Sp. p. 4399; Gaz. vol. 144; p. 767.
- Spinning or twisting machine roving-clamp. L. T. Houghton. No. 919,354; Apr. 27; Sp. p. 5133; Gaz. vol. 141; p. 891.
- Spinning or twisting machine thread-guide. J. E. Prest. No. 929,009; July 27; Sp. p. 4775; Gaz. vol. 144; p. 854.
- Spinning-ring. N. Payment. No. 937,089; Oct. 19; Sp. p. 3086; Gaz. vol. 147; p. 542.
- Spinning-ring and adjustable holder therefor, Rotary. J. A. Walton. No. 921,031; May 11; Sp. p. 1903; Gaz. vol. 142; p. 337.
- Spinning-ring base. M. H. Maloney. No. 938,392; Oct. 26; Sp. p. 5874; Gaz. vol. 147; p. 996.
- Spinning-ring holder. B. Hall. No. 920,458; May 4; Sp. p. 743; Gaz. vol. 142; p. 119.
- Spinning-ring-holding apparatus. G. L. Pierce. No. 920,082; Apr. 27; Sp. p. 6681; Gaz. vol. 141; p. 1136.
- Spinning-spindle. J. V. Cuniff. No. 942,777; Dec. 7; Sp. p. 1542; Gaz. vol. 149; p. 253.
- Spinning, twisting, and doubling machinery. S. Z. de Ferranti. No. 927,343; July 6; Sp. p. 1288; Gaz. vol. 144; p. 213.
- Spinning yarn, Mule and twiner for. P. B. Whitehead. No. 921,770; May 18; Sp. p. 3458; Gaz. vol. 142; p. 615.
- Spiral drill. A. Urbscheit. No. 932,071; Aug. 24; Sp. p. 5210; Gaz. vol. 145; p. 889.
- Spittoon. J. Escuder. No. 943,527; Dec. 14; Sp. p. 3206; Gaz. vol. 149; p. 540.
- Spittoon and ash-receiver, Combined. M. Mayer. No. 923,192; June 1; Sp. p. 151; Gaz. vol. 143; p. 25.
- Spittoon-carrier. C. Hilckmann. No. 919,723; Apr. 27; Sp. p. 5928; Gaz. vol. 141; p. 1017.
- Spittoon, Fountain-. A. C. Clark. No. 923,946; June 8; Sp. p. 1866; Gaz. vol. 143; p. 311.
- Splice-bar. M. K. and C. C. Gross. No. 915,952; Mar. 23; Sp. p. 4712; Gaz. vol. 140; p. 836.
- Splice-bar. E. B. Eldridge. No. 923,634; June 1; Sp. p. 1163; Gaz. vol. 143; p. 179.
- Splice-boxing machinery. A. B. Calkins. No. 916,666; Mar. 30; Sp. p. 6108; Gaz. vol. 140; p. 1095.
- Splice-holding frame. W. H. Parker. No. 925,592; June 22; Sp. p. 5221; Gaz. vol. 143; p. 919.
- Spoke. T. H. Walbridge. No. 922,737; May 25; Sp. p. 5441; Gaz. vol. 142; p. 958.
- Spoke-fastener. G. E. Schaeffer. No. 917,158; Apr. 6; Sp. p. 407; Gaz. vol. 141; p. 71.
- Spoke-fastener. W. L. Jett. No. 938,149; Oct. 26; Sp. p. 5337; Gaz. vol. 147; p. 912.
- Spoke-inserting machine, Automatic. J. W. Peplinski and C. F. Thayer. No. 930,986; Aug. 10; Sp. p. 2827; Gaz. vol. 145; p. 478.
- Spoke-lathe. L. G. Robinson and J. J. Meyers. No. 913,769; Mar. 2; Sp. p. 195; Gaz. vol. 140; p. 32.
- Spoke-setter. A. R. Kunzmann. No. 929,957; Aug. 3; Sp. p. 712; Gaz. vol. 145; p. 113.
- Spoke, Vehicle-wheel. H. O. Peck. No. 934,566; Sept. 21; Sp. p. 3204; Gaz. vol. 146; p. 559.
- Spokes, Tenon-forming machine for wheel-. E. and E. E. Davis. No. 941,625; Nov. 30; Sp. p. 6988; Gaz. vol. 148; p. 1182.



*Alphabetical list of inventions—Continued.*

- Sponge indicating and alarm device. F. Mersfelder, Sr. No. 917,095; Apr. 6; Sp. p. 272; Gaz. vol. 141; p. 50.
- Spool. W. E. Evans. No. 936,526; Oct. 12; Sp. p. 1963; Gaz. vol. 147; p. 324.
- Spool and twine holding device. H. Reicherter. No. 941,949; Nov. 30; Sp. p. 7682; Gaz. vol. 148; p. 1294.
- Spool, Compensating-. F. E. Cole. No. 936,306; Oct. 12; Sp. p. 1454; Gaz. vol. 147; p. 251.
- Spool-head. L. T. Houghton. No. 919,355; Apr. 27; Sp. p. 5135; Gaz. vol. 141; p. 891.
- Spool-holder. B. F. Ford. No. 911,964; Feb. 9; Sp. p. 1919; Gaz. vol. 139; p. 337.
- Spool-holder. S. Wertheimer. No. 912,341; Feb. 16; Sp. p. 2724; Gaz. vol. 139; p. 497.
- Spool-holder. F. Mayor. No. 918,180; Apr. 13; Sp. p. 2465; Gaz. vol. 141; p. 441.
- Spool-holder for ribbons and the like. J. Ruesing, Jr. No. 929,790; Aug. 3; Sp. p. 338; Gaz. vol. 145; p. 57.
- Spool, Roping-. H. Mosley. No. 920,611; May 4; Sp. p. 1047; Gaz. vol. 142; p. 170.
- Spool-unwinder. E. J. Rich. No. 909,456; Jan. 12; Sp. p. 2071; Gaz. vol. 138; p. 368.
- Spooler, Multiple. G. A. Clark. No. 916,388; Mar. 23; Sp. p. 5517; Gaz. vol. 140; p. 980.
- Spooler, spinning, or similar machine yarn-cleaner. J. R. and W. B. MacColl. No. 915,300; Mar. 16; Sp. p. 3399; Gaz. vol. 140; p. 593.
- Spooling or winding machine attachment. G. A. Metcalf. No. 913,416; Feb. 23; Sp. p. 4929; Gaz. vol. 139; p. 882.
- Spoon. I. B. Harn. No. 944,091; Dec. 21; Sp. p. 4420; Gaz. vol. 149; p. 762.
- Spoon-clamp, Engraver's. F. W. Crocker. No. 909,759; Jan. 12; Sp. p. 2673; Gaz. vol. 138; p. 472.
- Spoon-holder. W. B. O'Reilly. No. 917,350; Apr. 6; Sp. p. 805; Gaz. vol. 141; p. 138.
- Spoon-rest. E. Wallace. No. 927,088; July 6; Sp. p. 823; Gaz. vol. 144; p. 132.
- Spoon, Souvenir locket-. I. Holsman. No. 939,840; Nov. 9; Sp. p. 3058; Gaz. vol. 148; p. 505.
- Spoon, Trolling-. G. W. Fey. No. 916,691; Mar. 30; Sp. p. 6162; Gaz. vol. 140; p. 1103.
- Spoons, forks, &c., Cleaning-machine for. J. L. Sanders. No. 923,710; June 1; Sp. p. 1320; Gaz. vol. 143; p. 204.
- Spot. S. W. Reynolds. No. 922,191; May 18; Sp. p. 4308; Gaz. vol. 142; p. 751.
- Spot-setter. S. W. Reynolds. No. 926,287; June 29; Sp. p. 6702; Gaz. vol. 143; p. 1182.
- Spout. S. B. Hart. No. 921,696; May 18; Sp. p. 3309; Gaz. vol. 142; p. 589.
- Spout. E. L. Watrous. No. 938,402; Oct. 26; Sp. p. 5897; Gaz. vol. 147; p. 1000.
- Spout, Flexible feed-. L. V. Rathbun. No. 943,891; Dec. 21; Sp. p. 3994; Gaz. vol. 149; p. 693.
- Spouts, conductors, &c., Machine for making elbows for. C. B. Agar. No. 919,804; Apr. 27; Sp. p. 6070; Gaz. vol. 141; p. 1044.
- Spouts, Device for adjustably holding flexible. G. W. Warner. No. 908,715; Jan. 5; Sp. p. 607; Gaz. vol. 138; p. 94.
- Sprag. A. Bendle. No. 912,062; Feb. 9; Sp. p. 2139; Gaz. vol. 139; p. 369.
- Sprag remover and retainer. J. T. Harcarik. No. 943,538; Dec. 14; Sp. p. 3228; Gaz. vol. 149; p. 543.
- Sprag-shaving machine. R. Appleman. No. 944,647; Dec. 28; Sp. p. 5638; Gaz. vol. 149; p. 978.
- Spray-burner. A. Rohrbach, W. Diekmann, A. Gribling, and L. Grote. No. 943,567; Dec. 14; Sp. p. 3281; Gaz. vol. 149; p. 553.
- Spray-trough. F. F. Bentley. No. 930,926; Aug. 10; Sp. p. 2685; Gaz. vol. 145; p. 460.
- Sprayer. C. S. Perry. No. 912,261; Feb. 9; Sp. p. 2508; Gaz. vol. 139; p. 431.
- Sprayer. H. A. Voelker. No. 916,808; Mar. 30; Sp. p. 6359; Gaz. vol. 140; p. 1136.
- Sprayer. H. M. Cramer. No. 918,512; Apr. 20; Sp. p. 3161; Gaz. vol. 141; p. 579.
- Sprayer. D. O. Bowman. No. 931,030; Aug. 17; Sp. p. 2945; Gaz. vol. 145; p. 521.
- Sprayer. E. Harry. No. 938,144; Oct. 26; Sp. p. 5322; Gaz. vol. 147; p. 910.
- Sprayer and sprinkler, Liquid. H. Blyemehl. No. 916,984; Apr. 6; Sp. p. 38; Gaz. vol. 141; p. 11.
- Sprayer for animals, Disinfectant-. E. Goeke. No. 932,858; Aug. 31; Sp. p. 6828; Gaz. vol. 145; p. 1172.
- Sprayer, Portable. A. B. Morgan. No. 941,528; Nov. 30; Sp. p. 6795; Gaz. vol. 148; p. 1151.
- Spraying and coating machine, Compressed-air. R. M. Johnston. No. 921,409; May 11; Sp. p. 2712; Gaz. vol. 142; p. 466.
- Spraying apparatus. E. H. Lamiell and H. L. Hurst. No. 912,966; Feb. 16; Sp. p. 4015; Gaz. vol. 139; p. 704.
- Spraying apparatus. F. and F. Koenigkramer. No. 914,289; Mar. 2; Sp. p. 1348; Gaz. vol. 140; p. 209.
- Spraying apparatus. A. Sala. No. 924,501; June 8; Sp. p. 3024; Gaz. vol. 143; p. 494.
- Spraying apparatus. F. Swearing. No. 929,343; July 27; Sp. p. 5519; Gaz. vol. 144; p. 967.
- Spraying apparatus. H. F. B. Snyder. No. 930,627; Aug. 10; Sp. p. 2070; Gaz. vol. 145; p. 362.
- Spraying apparatus. A. G. Stout. No. 938,084; Oct. 26; Sp. p. 5200; Gaz. vol. 147; p. 891.
- Spraying apparatus, Portable. D. W. Wadsworth. No. 932,520; Aug. 31; Sp. p. 6110; Gaz. vol. 145; p. 1060.
- Spraying appliance. J. C. Ryan. No. 912,894; Feb. 16; Sp. p. 3869; Gaz. vol. 139; p. 682.
- Spraying device. A. Klinger. No. 923,277; June 1; Sp. p. 390; Gaz. vol. 143; p. 54.
- Spraying device. T. P. Watson. No. 926,791; July 6; Sp. p. 168; Gaz. vol. 144; p. 28.
- Spraying-device air-chamber, Liquid-. A. M. Phillips. No. 931,215; Aug. 17; Sp. p. 3365; Gaz. vol. 145; p. 585.
- Spraying-machine. W. D. Knapp. No. 933,039; Aug. 31; Sp. p. 7180; Gaz. vol. 145; p. 1232.
- Spreading materials on edibles, such as cake, biscuit, and the like, Apparatus for. C. Kaufer and F. Schoppe. No. 934,817; Sept. 21; Sp. p. 3709; Gaz. vol. 146; p. 644.
- Spring; See Automobile-spring; Auxiliary spring; Bed-spring; Clock, watch, &c., friction-spring; Cushion-spring; Door-spring; Elliptic spring; Eyeglass-spring; Hydropneumatic spring; Leaf-spring; Mattress and furniture spring; Measuring-instrument tubular spring; Pneumatic spring; Saddle-spring; Seat-spring; Valve-closing spring; Vehicle-spring; Window-spring.
- Spring. J. M. Waugh. No. 908,716; Jan. 5; Sp. p. 610; Gaz. vol. 138; p. 95.
- Spring. F. B. King. No. 912,855; Feb. 16; Sp. p. 3805; Gaz. vol. 139; p. 670.
- Spring. E. H. Wood. No. 936,971; Oct. 12; Sp. p. 2840; Gaz. vol. 147; p. 473.
- Spring-actuated motor. C. A. Elton. No. 920,120; May 4; Sp. p. 66; Gaz. vol. 142; p. 8.
- Spring-hauling machine. R. E. Johnson. No. 929,309; July 27; Sp. p. 5426; Gaz. vol. 144; p. 954.
- Spring Jack, Vehicle-. T. Wright. No. 933,686; Sept. 7; Sp. p. 1479; Gaz. vol. 146; p. 223.
- Spring-bolt, Safety. D. S. Welch. No. 927,824; July 13; Sp. p. 2331; Gaz. vol. 144; p. 402.
- Spring clamping device. J. A. Mudd. No. 932,163; Aug. 24; Sp. p. 5392; Gaz. vol. 145; p. 919.
- Spring-clip construction. M. L. Senderling. No. 911,545; Feb. 2; Sp. p. 991; Gaz. vol. 139; p. 173.
- Spring, Coil-. J. B. Knudsen. No. 917,770; Apr. 13; Sp. p. 1624; Gaz. vol. 141; p. 302.
- Spring-coiling mechanism. H. McCormack. No. 923,563; June 1; Sp. p. 1006; Gaz. vol. 143; p. 154.
- Spring construction. F. E. Holland. No. 911,499; Feb. 2; Sp. p. 902; Gaz. vol. 139; p. 158.
- Spring construction. C. Rutson. No. 914,312; Mar. 2; Sp. p. 1390; Gaz. vol. 140; p. 216.
- Spring construction. W. R. Smith. No. 916,622; Mar. 30; Sp. p. 6036; Gaz. vol. 140; p. 1082.
- Spring construction. W. R. Smith. No. 935,701; Oct. 5; Sp. p. 170; Gaz. vol. 147; p. 27.
- Spring construction. W. R. Smith. No. 935,702; Oct. 5; Sp. p. 173; Gaz. vol. 147; p. 27.
- Spring construction. W. R. Smith. No. 935,703; Oct. 5; Sp. p. 175; Gaz. vol. 147; p. 27.
- Spring construction. G. C. Shoemaker. No. 935,933; Oct. 5; Sp. p. 714; Gaz. vol. 147; p. 105.
- Spring construction. W. R. Smith. No. 935,938; Oct. 5; Sp. p. 724; Gaz. vol. 147; p. 106.
- Spring-controller. H. A. House. No. 927,048; July 6; Sp. p. 734; Gaz. vol. 144; p. 116.
- Spring drill or brace, Reaction. A. McGregor. No. 929,465; July 27; Sp. p. 5721; Gaz. vol. 144; p. 1004.
- Spring-equalizer. F. H. Warner. No. 924,862; June 15; Sp. p. 3805; Gaz. vol. 143; p. 650.
- Spring fabric. H. E. Gates. No. 941,447; Nov. 30; Sp. p. 6631; Gaz. vol. 148; p. 1124.
- Spring-fastener. F. Bowen. No. 941,754; Nov. 30; Sp. p. 7271; Gaz. vol. 148; p. 1226.
- Spring-fastening. K. and M. Gerisch. No. 924,341; June 8; Sp. p. 2722; Gaz. vol. 143; p. 443.
- Spring-forming tool, Spiral-. H. M. Daniels. No. 911,296; Feb. 2; Sp. p. 543; Gaz. vol. 139; p. 92.
- Spring, Furniture-. J. L. Radermacher. No. 917,793; Apr. 13; Sp. p. 1669; Gaz. vol. 141; p. 309.
- Spring-hinge. G. H. Day. No. 911,949; Feb. 9; Sp. p. 1806; Gaz. vol. 139; p. 332.
- Spring-link. A. B. Day. No. 936,865; Oct. 12; Sp. p. 2632; Gaz. vol. 147; p. 439.
- Spring manufacture. S. W. Baldwin. No. 908,440; Jan. 5; Sp. p. 12; Gaz. vol. 138; p. 4.
- Spring-motor. H. Schröder. No. 912,625; Feb. 16; Sp. p. 3321; Gaz. vol. 139; p. 594.
- Spring-motor. J. F. Armstrong. No. 916,523; Mar. 30; Sp. p. 5847; Gaz. vol. 140; p. 1049.
- Spring-motor. W. H. O'Bannon and J. M. Field. No. 935,540; Sept. 28; Sp. p. 5179; Gaz. vol. 146; p. 908.
- Spring-power motor. C. A. Johnson. No. 924,669; June 15; Sp. p. 3391; Gaz. vol. 143; p. 584.
- Spring-relief coaster. W. Van Wie. No. 913,786; Mar. 2; Sp. p. 235; Gaz. vol. 140; p. 39.
- Spring structure. H. Reidenbach. No. 939,090; Nov. 2; Sp. p. 1360; Gaz. vol. 148; p. 221.
- Spring structure, Vehicle-. J. P. Murrey. No. 932,489; Aug. 31; Sp. p. 6055; Gaz. vol. 145; p. 1050.
- Spring suspension. A. P. Brush. No. 923,765; June 1; Sp. p. 1438; Gaz. vol. 143; p. 223.
- Spring-switch. W. M. Brown. No. 920,534; May 4; Sp. p. 897; Gaz. vol. 142; p. 144.
- Spring system for beds, &c. J. A. Staples. No. 944,518; Dec. 28; Sp. p. 5359; Gaz. vol. 149; p. 934.
- Spring-uncoiling machine. H. W. Brashear. No. 918,121; Apr. 13; Sp. p. 2362; Gaz. vol. 141; p. 423.
- Spring-wheel. A. Larson. No. 910,396; Jan. 19; Sp. p. 4012; Gaz. vol. 138; p. 720.
- Spring-wheel. G. A. Gustafson. No. 911,975; Feb. 9; Sp. p. 1946; Gaz. vol. 139; p. 341.

*Alphabetical list of inventions—Continued.*

- Spring-wheel. L. E. L. Themke. No. 916,059; Mar. 23; Sp. p. 4917; Gaz. vol. 140; p. 871.
- Spring-wheel. A. Carlson and O. Karlson. No. 916,842; Mar. 30; Sp. p. 6431; Gaz. vol. 140; p. 1149.
- Spring-wheel. J. J. Collins. No. 917,845; Apr. 13; Sp. p. 1769; Gaz. vol. 141; p. 325.
- Spring-wheel. K. F. Elers. No. 917,856; Apr. 13; Sp. p. 1792; Gaz. vol. 141; p. 329.
- Spring-wheel. W. J. Storrs. No. 919,490; Apr. 27; Sp. p. 5466; Gaz. vol. 141; p. 939.
- Spring-wheel. D. Warner. No. 920,226; May 4; Sp. p. 273; Gaz. vol. 142; p. 43.
- Spring-wheel. E. B. Anderson. No. 922,658; May 25; Sp. p. 5276; Gaz. vol. 142; p. 932.
- Spring-wheel. J. Fliegel. No. 923,161; June 1; Sp. p. 89; Gaz. vol. 143; p. 14.
- Spring-wheel. T. W. Gratz, Jr. No. 923,643; June 1; Sp. p. 1180; Gaz. vol. 143; p. 182.
- Spring-wheel. J. E. Rielly. No. 923,707; June 1; Sp. p. 1316; Gaz. vol. 143; p. 203.
- Spring-wheel. R. H. Burgess. No. 924,036; June 8; Sp. p. 2046; Gaz. vol. 143; p. 340.
- Spring-wheel. J. W. Benson. No. 924,724; June 15; Sp. p. 3507; Gaz. vol. 143; p. 603.
- Spring-wheel. W. G. Marr. No. 925,005; June 15; Sp. p. 4104; Gaz. vol. 143; p. 698.
- Spring-wheel. J. E. Rielly. No. 926,769; July 6; Sp. p. 127; Gaz. vol. 144; p. 21.
- Spring-wheel. J. D. Sower. No. 927,009; July 6; Sp. p. 628; Gaz. vol. 144; p. 102.
- Spring-wheel. C. L. Drier. No. 929,570; July 27; Sp. p. 5911; Gaz. vol. 144; p. 1039.
- Spring-wheel. W. Eckert. No. 929,572; July 27; Sp. p. 5913; Gaz. vol. 144; p. 1039.
- Spring-wheel. R. McFarland. No. 930,557; Aug. 10; Sp. p. 1921; Gaz. vol. 145; p. 339.
- Spring-wheel. L. Flum. No. 931,048; Aug. 17; Sp. p. 2992; Gaz. vol. 145; p. 528.
- Spring-wheel. W. H. Wildrick. No. 931,241; Aug. 17; Sp. p. 3421; Gaz. vol. 145; p. 593.
- Spring-wheel. H. J. Wildhagen. No. 933,807; Sept. 14; Sp. p. 1716; Gaz. vol. 146; p. 285.
- Spring-wheel. F. N. Gibb. No. 934,159; Sept. 14; Sp. p. 2438; Gaz. vol. 146; p. 400.
- Spring-wheel. H. J. Herbert and D. Ward. No. 935,982; Oct. 5; Sp. p. 815; Gaz. vol. 147; p. 121.
- Spring-wheel. H. H. Taylor. No. 939,565; Nov. 9; Sp. p. 2470; Gaz. vol. 148; p. 409.
- Spring-wheel. A. R. Miskin. No. 941,329; Nov. 23; Sp. p. 6346; Gaz. vol. 148; p. 1061.
- Spring-wheel. C. W. Baeder. No. 941,550; Nov. 30; Sp. p. 6836; Gaz. vol. 148; p. 1157.
- Spring-wheel. A. Moore. No. 942,276; Dec. 7; Sp. p. 530; Gaz. vol. 149; p. 83.
- Spring-wheel. J. A. Dieterich. No. 943,397; Dec. 14; Sp. p. 2925; Gaz. vol. 149; p. 493.
- Spring-winding tool. A. Worcester. No. 922,656; May 25; Sp. p. 5271; Gaz. vol. 142; p. 932.
- Springs, Machine for making coiled. F. H. Sleeper. No. 940,828; Nov. 23; Sp. p. 5291; Gaz. vol. 148; p. 898.
- Springs, Machine for squaring ends of spiral. C. W. Peck. No. 919,758; Apr. 27; Sp. p. 5985; Gaz. vol. 141; p. 1029.
- Springs, Supporting and stretching device for woven-wire. S. W. Bennett. No. 916,655; Mar. 30; Sp. p. 6091; Gaz. vol. 140; p. 1092.
- Springs to corrugated cross-bars, Clamp for attaching. W. H. Bates. No. 926,381; June 29; Sp. p. 6888; Gaz. vol. 143; p. 1212.
- Springwork. W. Shannon. No. 929,333; July 27; Sp. p. 5496; Gaz. vol. 144; p. 963.
- Sprinkler. See Automatic sprinkler; Lawn-sprinkler; Street-sprinkler.
- Sprinkler. B. J. Sweney. No. 917,377; Apr. 6; Sp. p. 851; Gaz. vol. 141; p. 146.
- Sprinkler. J. W. Campbell. No. 941,671; Nov. 30; Sp. p. 7085; Gaz. vol. 148; p. 1197.
- Sprinkler alarm and indicator, Automatic. F. W. Milliken. No. 909,311; Jan. 12; Sp. p. 1797; Gaz. vol. 138; p. 322.
- Sprinkler alarm device. E. L. Thompson. No. 929,051; July 27; Sp. p. 4854; Gaz. vol. 144; p. 868.
- Sprinkler and hose-reel, Lawn-. C. Buehler. No. 917,999; Apr. 13; Sp. p. 2122; Gaz. vol. 141; p. 381.
- Sprinkler emergency-stopper, Automatic-. J. P. Casey. No. 917,923; Apr. 13; Sp. p. 1947; Gaz. vol. 141; p. 353.
- Sprinkler-head. H. Gibbs. No. 911,717; Feb. 9; Sp. p. 1383; Gaz. vol. 139; p. 257.
- Sprinkler-head. A. Blauvelt. No. 920,252; May 4; Sp. p. 334; Gaz. vol. 142; p. 52.
- Sprinkler-head. T. Lennox. No. 920,592; May 4; Sp. p. 1013; Gaz. vol. 142; p. 165.
- Sprinkler-head, Automatic. G. E. Hibbard. No. 922,140; May 18; Sp. p. 4200; Gaz. vol. 142; p. 734.
- Sprinkler-system alarm. M. G. Young. No. 941,053; Nov. 23; Sp. p. 5757; Gaz. vol. 148; p. 972.
- Sprinkler system, Automatic. G. M. Demarest. No. 911,705; Feb. 9; Sp. p. 1362; Gaz. vol. 139; p. 253.
- Sprinkler system, Automatic. W. F. Hanke and F. Eha. No. 917,292; Apr. 6; Sp. p. 690; Gaz. vol. 141; p. 117.
- Sprinkler system, Automatic. J. P. Casey. No. 922,456; May 25; Sp. p. 4848; Gaz. vol. 142; p. 866.
- Sprinkler-system automatic alarm. G. O. Haskell. No. 914,569; Mar. 9; Sp. p. 1927; Gaz. vol. 140; p. 328.
- Sprinkling-machine. E. Tomer. No. 937,660; Oct. 19; Sp. p. 4277; Gaz. vol. 147; p. 730.
- Sprinkling machine, Rotary barrel-. J. Müller, Jr. No. 911,320; Feb. 2; Sp. p. 589; Gaz. vol. 139; p. 100.
- Sprinkling of liquids, Device for the uniform. H. Mikorey. No. 923,550; June 1; Sp. p. 963; Gaz. vol. 143; p. 149.
- Sprinkling system. O. J. Kennedy. No. 917,614; Apr. 6; Sp. p. 1268; Gaz. vol. 141; p. 224.
- Spur. G. Kirby. No. 916,718; Mar. 30; Sp. p. 6201; Gaz. vol. 140; p. 1111.
- Spur. J. W. Fields. No. 930,655; Aug. 10; Sp. p. 2125; Gaz. vol. 145; p. 371.
- Spur. F. C. Monier. No. 934,559; Sept. 21; Sp. p. 3189; Gaz. vol. 146; p. 556.
- Spur, Folding. J. D. Hayes. No. 931,063; Aug. 17; Sp. p. 3042; Gaz. vol. 145; p. 533.
- Spur, Riding-. A. Muth. No. 929,099; July 27; Sp. p. 4952; Gaz. vol. 144; p. 882.
- Sputa-cup and holder. F. C. Jonah. No. 914,725; Mar. 9; Sp. p. 2255; Gaz. vol. 140; p. 379.
- Sputum-cup. H. J. Potter. No. 912,263; Feb. 9; Sp. p. 2512; Gaz. vol. 139; p. 432.
- Sputum-cup. H. J. Potter. No. 920,180; May 4; Sp. p. 172; Gaz. vol. 142; p. 27.
- Square. L. V. Shepherd. No. 909,694; Jan. 12; Sp. p. 2541; Gaz. vol. 138; p. 451.
- Square. B. M. and R. R. Randall. No. 911,330; Feb. 2; Sp. p. 605; Gaz. vol. 139; p. 103.
- Square. C. F. Barwick and W. J. Brennen. No. 916,971; Apr. 6; Sp. p. 20; Gaz. vol. 141; p. 7.
- Square. E. A. King. No. 919,883; Apr. 27; Sp. p. 6275; Gaz. vol. 141; p. 1071.
- Square. T. C. Howland. No. 927,972; July 13; Sp. p. 2649; Gaz. vol. 144; p. 450.
- Square. S. B. and O. J. Easley. No. 941,313; Nov. 23; Sp. p. 6325; Gaz. vol. 148; p. 1057.
- Square. T. C. Howland. No. 943,351; Dec. 14; Sp. p. 2843; Gaz. vol. 149; p. 478.
- Square and bevel, Combined. E. A. Williams. No. 928,569; July 20; Sp. p. 3886; Gaz. vol. 144; p. 679.
- Square, Bevel-. D. E. Brandt. No. 937,020; Oct. 12; Sp. p. 2944; Gaz. vol. 147; p. 490.
- Square, Carpenter's. A. Linder. No. 929,146; July 27; Sp. p. 5066; Gaz. vol. 144; p. 900.
- Square, Carpenter's. L. E. Bailey. No. 937,202; Oct. 19; Sp. p. 3329; Gaz. vol. 147; p. 579.
- Square, Combination center-. P. H. Allison. No. 934,260; Sept. 14; Sp. p. 2621; Gaz. vol. 146; p. 434.
- Square, Foldable carpenter's. C. L. Ruehs. No. 912,174; Feb. 9; Sp. p. 2339; Gaz. vol. 139; p. 404.
- Square, Folding. E. Bennett. No. 927,096; July 6; Sp. p. 838; Gaz. vol. 144; p. 134.
- Square, Folding. W. N. Craig. No. 944,541; Dec. 28; Sp. p. 5419; Gaz. vol. 149; p. 942.
- Square, Magnetic T-. J. C. Draper and J. W. Reid. No. 926,247; June 29; Sp. p. 6635; Gaz. vol. 143; p. 1171.
- Square, Rustic. F. A. Virtue. No. 921,488; May 11; Sp. p. 2863; Gaz. vol. 142; p. 493.
- Square, Separable. W. J. Stuart. No. 911,846; Feb. 9; Sp. p. 1603; Gaz. vol. 139; p. 298.
- Square, T-. J. N. Whaley. No. 914,211; Mar. 2; Sp. p. 1183; Gaz. vol. 140; p. 186.
- Square, Tailor's. H. W. Ratner. No. 909,023; Jan. 5; Sp. p. 1210; Gaz. vol. 138; p. 194.
- Square, Tailor's. J. A. Carlstrom. No. 918,279; Apr. 13; Sp. p. 2685; Gaz. vol. 141; p. 475.
- Square, Try-. C. G. Larson. No. 927,556; July 13; Sp. p. 1745; Gaz. vol. 144; p. 311.
- Squeezer. W. M. Holloway. No. 941,146; Nov. 23; Sp. p. 5966; Gaz. vol. 148; p. 1003.
- Squib-igniter. J. A. Wranischar. No. 921,049; May 11; Sp. p. 1939; Gaz. vol. 142; p. 344.
- Stack-former. C. A. Hitchcock. No. 923,844; June 8; Sp. p. 1683; Gaz. vol. 143; p. 279.
- Stacker. E. A. Keesling. No. 910,131; Jan. 19; Sp. p. 3419; Gaz. vol. 138; p. 626.
- Stacker. W. T. McCall and D. L. Orendorff. No. 926,587; June 29; Sp. p. 7250; Gaz. vol. 143; p. 1281.
- Stacker. J. J. Schrag. No. 930,239; Aug. 3; Sp. p. 1266; Gaz. vol. 145; p. 208.
- Stacker. L. M. Blackman. No. 932,751; Aug. 31; Sp. p. 6613; Gaz. vol. 145; p. 1139.
- Stacker, Automatic hay-. H. N. Renner. No. 943,786; Dec. 21; Sp. p. 3775; Gaz. vol. 149; p. 657.
- Stacker, Hay-. J. H. Cope. No. 924,534; June 8; Sp. p. 3090; Gaz. vol. 143; p. 505.
- Stacker, Hay-. D. R. Long. No. 925,816; June 22; Sp. p. 5724; Gaz. vol. 143; p. 992.
- Stacker, Hay-. J. Dain. No. 935,298; Sept. 28; Sp. p. 4666; Gaz. vol. 146; p. 829.
- Stacker, Hay-. L. J. Lindsay. No. 936,332; Oct. 12; Sp. p. 1504; Gaz. vol. 147; p. 260.
- Stacker, Hay-. E. G. Carter. No. 938,461; Nov. 2; Sp. p. 18; Gaz. vol. 148; p. 5.
- Stacker, Hay-. A. B. and M. A. Clippinger. No. 939,393; Nov. 9; Sp. p. 2110; Gaz. vol. 148; p. 352.
- Stacker, Hay-. E. Barnes. No. 940,657; Nov. 23; Sp. p. 4906; Gaz. vol. 148; p. 840.
- Stacker, Hay-. F. M. Erwin. No. 941,238; Nov. 23; Sp. p. 6166; Gaz. vol. 148; p. 1034.
- Stacker, Hay-. C. A. Hagadone. No. 944,263; Dec. 28; Sp. p. 4772; Gaz. vol. 149; p. 844.
- Stacker, Pneumatic. P. Miller. No. 941,583; Nov. 30; Sp. p. 6901; Gaz. vol. 148; p. 1168.
- Stacker, Pneumatic straw-. S. M. O. Bangen. No. 921,341; May 11; Sp. p. 2572; Gaz. vol. 142; p. 444.



*Alphabetical list of inventions—Continued.*

- Stacker, Pneumatic straw-. S. D. Felsing. (Reissue.) No. 13,039; Nov. 16; Sp. p. 4888; Gaz. vol. 148; p. 814.  
 Stacker, Pneumatic straw-. G. H. Bathrick. No. 941,606; Nov. 30; Sp. p. 6945; Gaz. vol. 148; p. 1175.  
 Stacker, Portable hay-. C. V. Kahoa. No. 928,232; July 13; Sp. p. 3155; Gaz. vol. 144; p. 538.  
 Stacker, Rotary. R. T. Dye. No. 909,166; Jan. 12; Sp. p. 1521; Gaz. vol. 138; p. 275.  
 Stacker, Telescoping straw-. J. R. Buckwalter. No. 908,739; Jan. 5; Sp. p. 661; Gaz. vol. 138; p. 102.  
 Stacker turn-tables, Friction-wheel for. H. T. Seburn. No. 923,204; June 1; Sp. p. 180; Gaz. vol. 143; p. 29.  
 Stackers, Hay-retainer for hay-. J. Dain and J. L. Jackson. No. 921,954; May 18; Sp. p. 3841; Gaz. vol. 142; p. 972.  
 Stackers, Hay-retaining device for hay-. J. O. McCreery. No. 934,827; Sept. 21; Sp. p. 3725; Gaz. vol. 146; p. 647.  
 Stadia-reading apparatus. E. J. Young. No. 922,833; May 25; Sp. p. 5644; Gaz. vol. 142; p. 989.  
 Stadia-rod. J. H. Granbery. No. 940,007; Nov. 16; Sp. p. 3431; Gaz. vol. 148; p. 592.  
 Stage border-light. J. C. Bronaugh. No. 913,805; Mar. 2; Sp. p. 266; Gaz. vol. 140; p. 45.  
 Stage-noise cabinet. J. C. S. Rousselot. No. 928,070; July 13; Sp. p. 2836; Gaz. vol. 144; p. 483.  
 Stage-scenery, &c., Apparatus for raising and lowering. A. Williams. No. 915,523; Mar. 16; Sp. p. 3826; Gaz. vol. 140; p. 666.  
 Stage-setting. C. F. de Soria and J. F. Corrigan. No. 915,631; Mar. 16; Sp. p. 4079; Gaz. vol. 140; p. 705.  
 Staging, Adjustable. J. E. Miller. No. 921,431; May 11; Sp. p. 2754; Gaz. vol. 142; p. 474.  
 Stain-indicator. E. Eckart. No. 935,474; Sept. 28; Sp. p. 5011; Gaz. vol. 146; p. 885.  
 Stair-carpet clamp, Invisible. C. H. Seelye. No. 911,767; Feb. 9; Sp. p. 1466; Gaz. vol. 139; p. 273.  
 Stair, Counterbalanced. P. L. Larson. No. 908,782; Jan. 5; Sp. p. 737; Gaz. vol. 138; p. 116.  
 Stair, Folding. J. A. Flynn. No. 943,672; Dec. 21; Sp. p. 3550; Gaz. vol. 149; p. 618.  
 Stair-guard. J. Lalonde. No. 938,771; Nov. 2; Sp. p. 686; Gaz. vol. 148; p. 110.  
 Stair, Metal. C. F. Steiber. No. 919,789; Apr. 27; Sp. p. 6046; Gaz. vol. 141; p. 1039.  
 Stair-rail-projecting device. C. F. Weichold. No. 908,526; Jan. 5; Sp. p. 197; Gaz. vol. 138; p. 34.  
 Stair-tread. R. T. Kanski. No. 943,418; Dec. 14; Sp. p. 2965; Gaz. vol. 149; p. 500.  
 Stairs or other supports, Newel-post for. C. E. Paulson. No. 912,260; Feb. 9; Sp. p. 2507; Gaz. vol. 139; p. 431.  
 Stairway. J. N. Coleman. No. 932,679; Aug. 31; Sp. p. 6471; Gaz. vol. 145; p. 1115.  
 Stairway, Basement-. J. T. Cowles. No. 920,274; May 4; Sp. p. 401; Gaz. vol. 142; p. 61.  
 Stairway, Fireproof. F. A. Winslow. No. 913,087; Feb. 23; Sp. p. 4256; Gaz. vol. 139; p. 771.  
 Stake-holder. J. S. Whitworth. No. 916,239; Mar. 23; Sp. p. 5258; Gaz. vol. 140; p. 929.  
 Stake, Spring-. M. R. Jenkins. No. 937,942; Oct. 26; Sp. p. 4886; Gaz. vol. 147; p. 844.  
 Staking-machine. F. J. Perkins. No. 926,826; July 6; Sp. p. 255; Gaz. vol. 144; p. 40.  
 Staking-tool. F. R. Cunningham. No. 923,495; June 1; Sp. p. 846; Gaz. vol. 143; p. 129.  
 Stalk-cutter. F. P. Chapa. No. 912,072; Feb. 9; Sp. p. 2158; Gaz. vol. 139; p. 373.  
 Stalk-cutter. O. N. Owen. No. 920,636; May 4; Sp. p. 1098; Gaz. vol. 142; p. 178.  
 Stalk-cutter. J. A. McKay. No. 931,635; Aug. 17; Sp. p. 4203; Gaz. vol. 145; p. 721.  
 Stalk-cutter. J. R. Weatherly. No. 939,573; Nov. 9; Sp. p. 2486; Gaz. vol. 148; p. 412.  
 Stalk-cutter. T. J. Love. No. 940,171; Nov. 16; Sp. p. 3826; Gaz. vol. 148; p. 650.  
 Stalk-cutter and plow, Combined. R. P. Peeples. No. 929,873; Aug. 3; Sp. p. 532; Gaz. vol. 145; p. 85.  
 Stalk-cutter, Double-row. F. M. Peden. No. 921,448; May 11; Sp. p. 2788; Gaz. vol. 142; p. 479.  
 Stalk-cutter, Raspberry and similar. M. B. Sherman. No. 922,529; May 25; Sp. p. 6009; Gaz. vol. 142; p. 890.  
 Stalk-rake. W. Nicholson. No. 925,129; June 15; Sp. p. 4335; Gaz. vol. 143; p. 739.  
 Stall, Cow-. C. S. Torrey. No. 943,489; Dec. 14; Sp. p. 3120; Gaz. vol. 149; p. 526.  
 Stall-floor. J. W. Fargo. No. 927,467; July 6; Sp. p. 1561; Gaz. vol. 144; p. 256.  
 Stamp-affixer. E. W. Nielsen. No. 939,537; Nov. 9; Sp. p. 2408; Gaz. vol. 148; p. 399.  
 Stamp-affixing device. C. L. Peters. No. 927,749; July 13; Sp. p. 2168; Gaz. vol. 144; p. 376.  
 Stamp-affixing machine. D. Carter. No. 933,158; Sept. 7; Sp. p. 247; Gaz. vol. 146; p. 42.  
 Stamp-affixing machine. W. A. Partie. No. 933,262; Sept. 7; Sp. p. 530; Gaz. vol. 146; p. 82.  
 Stamp-affixing machine. E. H. Hotchkiss and C. Beach. No. 936,630; Oct. 12; Sp. p. 2182; Gaz. vol. 147; p. 361.  
 Stamp-affixing machine. E. H. Hotchkiss and C. Beach. No. 936,631; Oct. 12; Sp. p. 2185; Gaz. vol. 147; p. 361.  
 Stamp-affixing machine. J. F. Monaghan. No. 942,454; Dec. 7; Sp. p. 884; Gaz. vol. 149; p. 144.  
 Stamp-affixing machine. J. W. McCann. No. 943,952; Dec. 21; Sp. p. 4126; Gaz. vol. 149; p. 715.  
 Stamp-affixing machine, Postage-. C. Elliot. No. 920,844; May 4; Sp. p. 1517; Gaz. vol. 142; p. 246.  
 Stamp, Atmospheric. C. H. Krause. No. 915,362; Mar. 16; Sp. p. 3516; Gaz. vol. 140; p. 613.  
 Stamp box, Postage-. P. H. Jung. No. 927,655; July 13; Sp. p. 1983; Gaz. vol. 144; p. 346.  
 Stamp, Canceling-. E. Z. Wilkoshesky. No. 938,098; Oct. 26; Sp. p. 5222; Gaz. vol. 147; p. 895.  
 Stamp-canceling-machineinking mechanism. S. J. Evans. No. 909,071; Jan. 5; Sp. p. 1308; Gaz. vol. 138; p. 210.  
 Stamp-cushion. F. E. Frost. No. 921,224; May 11; Sp. p. 2310; Gaz. vol. 142; p. 405.  
 Stamp, Dating-. A. D. Joslin. No. 918,555; Apr. 20; Sp. p. 3253; Gaz. vol. 141; p. 593.  
 Stamp, Dating-. H. E. Liddle. No. 937,251; Oct. 19; Sp. p. 3450; Gaz. vol. 147; p. 596.  
 Stamp-distributing device. H. Barry. No. 909,861; Jan. 19; Sp. p. 2872; Gaz. vol. 138; p. 536.  
 Stamp gage device, Time-. H. C. Vizens. No. 909,731; Jan. 12; Sp. p. 2624; Gaz. vol. 138; p. 463.  
 Stamp, Hand-. A. D. Joslin. No. 939,513; Nov. 9; Sp. p. 2356; Gaz. vol. 148; p. 391.  
 Stamp, Hand-. J. C. Otteson. No. 940,186; Nov. 16; Sp. p. 3856; Gaz. vol. 148; p. 655.  
 Stamp-lifter. B. F. Coleman. No. 925,156; June 15; Sp. p. 4387; Gaz. vol. 143; p. 749.  
 Stamp-mill. J. P. Rinker. No. 929,328; July 27; Sp. p. 5488; Gaz. vol. 144; p. 962.  
 Stamp-mill. O. C. Purkeypile. No. 934,354; Sept. 14; Sp. p. 2790; Gaz. vol. 146; p. 464.  
 Stamp-mortar. M. P. Boss. No. 939,208; Nov. 9; Sp. p. 1631; Gaz. vol. 148; p. 288.  
 Stamp-pad and treating the same. J. F. Selleck, Jr. No. 910,323; Jan. 19; Sp. p. 3871; Gaz. vol. 138; p. 696.  
 Stamp-sticker and envelop-sealer. J. T. F. Baeyertz. No. 921,059; May 11; Sp. p. 1956; Gaz. vol. 142; p. 347.  
 Stamp-strip. S. L. W. Coe. No. 943,653; Dec. 21; Sp. p. 3519; Gaz. vol. 149; p. 613.  
 Stamp, Time-. F. Purdy. No. 917,893; Apr. 13; Sp. p. 1873; Gaz. vol. 141; p. 342.  
 Stamp, Time-. G. E. Perry. No. 919,072; Apr. 20; Sp. p. 4374; Gaz. vol. 141; p. 764.  
 Stamp, Time-. C. M. Crook. No. 920,113; May 4; Sp. p. 37; Gaz. vol. 142; p. 6.  
 Stamp, Time-. C. S. Perry. No. 920,173; May 4; Sp. p. 153; Gaz. vol. 142; p. 25.  
 Stamp, Time-. G. E. Perry. No. 920,174; May 4; Sp. p. 157; Gaz. vol. 142; p. 25.  
 Stamp, Time-. G. E. Perry. No. 920,175; May 4; Sp. p. 162; Gaz. vol. 142; p. 26.  
 Stamp, Time-. J. J. Busenbenz. No. 938,410; Oct. 26; Sp. p. 5908; Gaz. vol. 147; p. 1002.  
 Stamps, Automatic machine for attaching postage-. H. S. Brewington. No. 938,820; Nov. 2; Sp. p. 793; Gaz. vol. 148; p. 128.  
 Stamps, Reversible ribbon-feed for dating-. B. B. Hill. No. 942,827; Dec. 7; Sp. p. 1643; Gaz. vol. 149; p. 268.  
 Stamps to letters, Device for affixing postage-. A. Tebbitt. No. 928,713; July 20; Sp. p. 4174; Gaz. vol. 144; p. 728.  
 Stamping apparatus. L. W. Unger. No. 933,733; Sept. 7; Sp. p. 1591; Gaz. vol. 146; p. 240.  
 Stamping apparatus. K. Hubert. No. 935,509; Sept. 28; Sp. p. 5103; Gaz. vol. 146; p. 897.  
 Stamping devices, Cushioned support for. J. Dubisee. No. 943,342; Dec. 14; Sp. p. 2824; Gaz. vol. 149; p. 475.  
 Stamping-machine. E. B. Wilhelm. No. 931,170; Aug. 17; Sp. p. 3265; Gaz. vol. 145; p. 569.  
 Stamping-machine. A. Van Brunt. No. 937,661; Oct. 19; Sp. p. 4279; Gaz. vol. 147; p. 730.  
 Stamping-machine. R. W. Munk. No. 944,742; Dec. 28; Sp. p. 5847; Gaz. vol. 149; p. 1010.  
 Stamping machine, Card-. W. W. Hodgson. No. 908,863; Jan. 5; Sp. p. 893; Gaz. vol. 138; p. 142.  
 Stanchion. M. A. Miley. No. 933,775; Sept. 14; Sp. p. 1658; Gaz. vol. 146; p. 274.  
 Stanchion. F. G. and A. E. Harris. No. 942,639; Dec. 7; Sp. p. 1267; Gaz. vol. 149; p. 207.  
 Stanchion, Cattle-. C. Norlie. No. 918,582; Apr. 20; Sp. p. 3307; Gaz. vol. 141; p. 601.  
 Stanchion, Cattle-. M. F. George. No. 930,069; Aug. 3; Sp. p. 938; Gaz. vol. 145; p. 151.  
 Stanchion, Cattle-. J. D. Flack. No. 933,424; Sept. 7; Sp. p. 872; Gaz. vol. 146; p. 136.  
 Stanchion, Hog-. W. C. Garnett. No. 932,384; Aug. 24; Sp. p. 5806; Gaz. vol. 145; p. 992.  
 Stanchion, Swing-. R. Logan. No. 927,562; July 13; Sp. p. 1756; Gaz. vol. 144; p. 314.  
 Stand: See Adding-machine stand; Adjustable stand; Barrel-stand; Bicycle-stand; Boiler-stand; Camera-stand; Card-holding stand; Churn-stand; Cycle-stand; Cycle and bicycle stand; Desk-stand; Disappearing stand; Display-stand; Dressing-stand; Flat-iron stand; Flower-stand; Flower-pot stand; Folding stand; Fruit-stand; Hammock-stand; Horseshoer's stand; Light-stand; Measuring-stand; Microphone desk-stand; Mirror-stand; Music-stand; Nut-stand; Pail-stand; Parrot-stand; Post-card stand; Railway-switch stand; Register-stand; Revolving stand; Sectional stand; Seed-stand; Shoe-polishing stand; Show-card stand; Sink-stand; Storage-battery stand; Stove-stand; Switch-stand; Talking-machine stand; Telephone-stand; Telephone desk-stand; Trolley-stand; Washtub-stand; Washtub and wringer stand.  
 Stand. J. A. Clark. No. 909,547; Jan. 12; Sp. p. 2249; Gaz. vol. 138; p. 399.  
 Stand. S. S. Eccleston. No. 913,110; Feb. 23; Sp. p. 4300; Gaz. vol. 139; p. 779.

*Alphabetical list of inventions—Continued.*

- Stand. W. B. Le Bourgeois. No. 930,394; Aug. 10; Sp. p. 1559; Gaz. vol. 145 p. 282.  
 Stand-boiler. L. S. Lawson. No. 925,202; June 15; Sp. p. 4478; Gaz. vol. 143; p. 764.  
 Staple-driver. K. G. Kafer. No. 913,014; Feb. 23; Sp. p. 4114; Gaz. vol. 139; p. 747.  
 Staple-driving mechanism. W. A. Kilmer. No. 922,153; May 18; Sp. p. 4227; Gaz. vol. 142; p. 739.  
 Staple forming and discharging mechanism. V. Hoxie. No. 942,904; Dec. 14; Sp. p. 1856; Gaz. vol. 149; p. 326.  
 Staple forming and discharging mechanism. V. Hoxie. No. 942,905; Dec. 14; Sp. p. 1857; Gaz. vol. 149; p. 327.  
 Staple forming and discharging mechanism. V. Hoxie. No. 942,906; Dec. 14; Sp. p. 1861; Gaz. vol. 149; p. 327.  
 Staple-machine. J. Buckley. No. 943,235; Dec. 14; Sp. p. 2589; Gaz. vol. 149; p. 438.  
 Staple-puller. C. W. Cochran. No. 910,173; Jan. 19; Sp. p. 3505; Gaz. vol. 138; p. 641.  
 Stapling-machine. A. R. Tiffany. No. 925,531; June 22; Sp. p. 5099; Gaz. vol. 143; p. 898.  
 Stapling-machine. E. T. Greenfield. No. 936,996; Oct. 12; Sp. p. 2888; Gaz. vol. 147; p. 482.  
 Stapling mechanism. W. N. Hunter. No. 915,862; Mar. 23; Sp. p. 4544; Gaz. vol. 140; p. 807.  
 Starch, Production of soluble. F. Fritsche. No. 910,524; Jan. 26; Sp. p. 4288; Gaz. vol. 138; p. 787.  
 Starch, Soluble. A. E. Militz. No. 941,159; Nov. 23; Sp. p. 5990; Gaz. vol. 148; p. 1007.  
 Starch, Treating. F. Supf. No. 918,925; Apr. 20; Sp. p. 4097; Gaz. vol. 141; p. 718.  
 Starching-machine. W. C. Straszer. No. 918,481; Apr. 13; Sp. p. 3076; Gaz. vol. 141; p. 540.  
 Starting and separating gate. R. V. Jones. No. 939,703; Nov. 9; Sp. p. 2771; Gaz. vol. 148; p. 457.  
 Starting device, Electrically-operated. H. H. Brown. No. 920,724; May 4; Sp. p. 1293; Gaz. vol. 142; p. 207.  
 Statement-delivery roll. R. W. Gallagher. No. 932,851; Aug. 31; Sp. p. 6816; Gaz. vol. 145; p. 1169.  
 Static induction generator. B. E. Baker. No. 937,691; Oct. 19; Sp. p. 4343; Gaz. vol. 147; p. 740.  
 Station-indicator. T. R. Clark. No. 912,992; Feb. 23; Sp. p. 4073; Gaz. vol. 139; p. 739.  
 Station-indicator. C. B. Casner. No. 914,550; Mar. 9; Sp. p. 1886; Gaz. vol. 140; p. 322.  
 Station-indicator. J. G. Harris. No. 918,044; Apr. 13; Sp. p. 2204; Gaz. vol. 141; p. 396.  
 Station-indicator. T. Tanner. No. 921,181; May 11; Sp. p. 2216; Gaz. vol. 142; p. 390.  
 Station-indicator. H. C. Wallace. No. 922,984; May 25; Sp. p. 5948; Gaz. vol. 142; p. 1037.  
 Station-indicator. C. H. Duede. No. 927,405; July 6; Sp. p. 1409; Gaz. vol. 144; p. 233.  
 Station-indicator. C. O. Frick. No. 937,207; Oct. 19; Sp. p. 3338; Gaz. vol. 147; p. 581.  
 Station-indicator. E. L. Pitts. No. 944,207; Dec. 21; Sp. p. 4657; Gaz. vol. 149; p. 798.  
 Station or street indicator. E. W. McCutchen. No. 911,059; Feb. 2; Sp. p. 74; Gaz. vol. 139; p. 14.  
 Stave-cutting machine. E. C. Thorschmidt. No. 934,769; Sept. 21; Sp. p. 3603; Gaz. vol. 146; p. 628.  
 Stave-formed structures, Machine for tying bands in. D. E. Vanvactor. No. 928,290; July 20; Sp. p. 3334; Gaz. vol. 144; p. 588.  
 Stave-jointing machine. N. M. Taylor. No. 942,799; Dec. 7; Sp. p. 1577; Gaz. vol. 149; p. 259.  
 Stave-machine. S. R. Anderson. No. 923,477; June 1; Sp. p. 815; Gaz. vol. 143; p. 122.  
 Stave-punching machine. D. E. Vanvactor. No. 928,289; July 20; Sp. p. 3328; Gaz. vol. 144; p. 588.  
 Staves, Machine for threading bands in. D. E. Vanvactor. No. 927,696; July 13; Sp. p. 2072; Gaz. vol. 144; p. 360.  
 Stay-bolt. W. M. Smith. No. 930,805; Aug. 10; Sp. p. 2422; Gaz. vol. 145; p. 420.  
 Stay-bolt. W. M. Smith. No. 930,807; Aug. 10; Sp. p. 2426; Gaz. vol. 145; p. 421.  
 Stay-bolt. W. M. Smith. No. 930,810; Aug. 10; Sp. p. 2435; Gaz. vol. 145; p. 422.  
 Stay-bolt. W. M. Smith. No. 932,342; Aug. 24; Sp. p. 5736; Gaz. vol. 145; p. 978.  
 Stay-bolt, Flexible. W. M. Smith. No. 930,809; Aug. 10; Sp. p. 2430; Gaz. vol. 145; p. 422.  
 Stay-bolts, &c., Machine for making. J. A. Eden, Jr. No. 927,514; July 13; Sp. p. 1670; Gaz. vol. 144; p. 298.  
 Stay-strip. J. R. Carter. No. 910,271; Jan. 19; Sp. p. 3766; Gaz. vol. 138; p. 678.  
 Stays, Plicing. B. V. Kershner. No. 909,608; Jan. 12; Sp. p. 2370; Gaz. vol. 138; p. 421.  
 Steady-rest. H. C. McCullough. No. 944,630; Dec. 28; Sp. p. 5608; Gaz. vol. 149; p. 973.  
 Steam and analogous system, Low-pressure. B. R. Doody. No. 930,650; Aug. 10; Sp. p. 2116; Gaz. vol. 145; p. 369.  
 Steam and hot-water boiler. T. Wheatley. No. 943,761; Dec. 21; Sp. p. 3727; Gaz. vol. 149; p. 648.  
 Steam and liquid pressure regulating device. C. P. McMullen. No. 944,689; Dec. 28; Sp. p. 5731; Gaz. vol. 149; p. 992.  
 Steam and liquid separator. C. E. Hylander. No. 934,727; Sept. 21; Sp. p. 3527; Gaz. vol. 146; p. 614.  
 Steam and oil separator. H. J. Gebhardt. No. 911,969; Feb. 9; Sp. p. 1932; Gaz. vol. 139; p. 339.  
 Steam, Apparatus for utilizing exhaust-. H. H. Wait. No. 938,357; Oct. 26; Sp. p. 5800; Gaz. vol. 147; p. 984.  
 Steam-boiler. P. Barnes. No. 918,260; Apr. 13; Sp. p. 2648; Gaz. vol. 141; p. 469.  
 Steam-boiler. W. A. Berry. No. 919,528; Apr. 27; Sp. p. 5533; Gaz. vol. 141; p. 950.  
 Steam-boiler. W. Kane. No. 933,370; Sept. 7; Sp. p. 764; Gaz. vol. 146; p. 119.  
 Steam-boiler. E. F. Edgar. No. 934,718; Sept. 21; Sp. p. 3513; Gaz. vol. 146; p. 611.  
 Steam-boiler. J. C. Parker. No. 943,452; Dec. 14; Sp. p. 3050; Gaz. vol. 149; p. 512.  
 Steam-boiler. E. F. Edgar. No. 944,669; Dec. 28; Sp. p. 5682; Gaz. vol. 149; p. 986.  
 Steam-boiler, Multitubular. J. H. Plumen. No. 915,379; Mar. 16; Sp. p. 3553; Gaz. vol. 140; p. 619.  
 Steam-controller, Vacuum. F. A. Simonds. No. 921,172; May 11; Sp. p. 2194; Gaz. vol. 142; p. 386.  
 Steam-cooker for oil-bearing meal, &c. M. W. Faherty. No. 909,773; Jan. 12; Sp. p. 2693; Gaz. vol. 138; p. 476.  
 Steam-cooker for oil-bearing meal, &c. A. W. French. No. 909,778; Jan. 12; Sp. p. 2703; Gaz. vol. 138; p. 478.  
 Steam cooking appliance. G. W. Ferguson. No. 911,654; Feb. 9; Sp. p. 1261; Gaz. vol. 139; p. 237.  
 Steam crab or winch. L. L. Tyrrell. No. 916,633; Mar. 30; Sp. p. 6052; Gaz. vol. 140; p. 1085.  
 Steam-drier. C. H. Noyes. No. 943,840; Dec. 21; Sp. p. 3886; Gaz. vol. 149; p. 676.  
 Steam-engine. J. Stumpf. No. 908,624; Jan. 5; Sp. p. 404; Gaz. vol. 138; p. 65.  
 Steam-engine. T. F. Scollard. No. 912,163; Feb. 9; Sp. p. 2352; Gaz. vol. 139; p. 406.  
 Steam-engine. J. F. Chuse. No. 912,991; Feb. 23; Sp. p. 4071; Gaz. vol. 139; p. 738.  
 Steam-engine. D. Farquhar. No. 914,256; Mar. 2; Sp. p. 1287; Gaz. vol. 140; p. 199.  
 Steam-engine. J. A. and M. W. Hill. No. 921,400; May 11; Sp. p. 2696; Gaz. vol. 142; p. 463.  
 Steam-engine. A. F. Hall. No. 930,282; Aug. 3; Sp. p. 1339; Gaz. vol. 145; p. 221.  
 Steam-engine. E. F. Edgar. No. 935,194; Sept. 28; Sp. p. 4467; Gaz. vol. 146; p. 794.  
 Steam-engine. E. J. Hamilton. No. 944,035; Dec. 21; Sp. p. 4311; Gaz. vol. 149; p. 743.  
 Steam-engine, Duplex. E. W. Conkell. No. 929,658; Aug. 3; Sp. p. 24; Gaz. vol. 145; p. 7.  
 Steam-engine, Rotary. W. Owen. No. 917,116; Apr. 6; Sp. p. 310; Gaz. vol. 141; p. 57.  
 Steam-equalizer. H. H. Wait. No. 938,356; Oct. 26; Sp. p. 5797; Gaz. vol. 147; p. 984.  
 Steam generating and superheating apparatus. G. R. Prowse. No. 920,181; May 4; Sp. p. 174; Gaz. vol. 142; p. 28.  
 Steam-generating system. C. Fero. No. 937,297; Oct. 19; Sp. p. 3534; Gaz. vol. 147; p. 610.  
 Steam-generator. G. A. Walton. No. 910,615; Jan. 26; Sp. p. 4490; Gaz. vol. 138; p. 819.  
 Steam-generator. T. G. Aldrich. No. 913,249; Feb. 23; Sp. p. 4598; Gaz. vol. 139; p. 824.  
 Steam-generator. F. N. Tilton. No. 913,442; Feb. 23; Sp. p. 4978; Gaz. vol. 139; p. 891.  
 Steam-generator. C. L. Thudichum. No. 914,618; Mar. 9; Sp. p. 2025; Gaz. vol. 140; p. 345.  
 Steam-generator. J. N. Leach. No. 917,621; Apr. 6; Sp. p. 1279; Gaz. vol. 141; p. 226.  
 Steam-generator. H. L. Van Zile and F. Chrysler. No. 921,486; May 11; Sp. p. 2859; Gaz. vol. 142; p. 492.  
 Steam-generator. H. Ritchie. No. 922,817; May 25; Sp. p. 5606; Gaz. vol. 142; p. 983.  
 Steam-generator. C. Cretors. No. 923,145; June 1; Sp. p. 47; Gaz. vol. 143; p. 8.  
 Steam-generator. J. G. A. Donnelly. No. 929,294; July 27; Sp. p. 5395; Gaz. vol. 144; p. 949.  
 Steam-generator. G. A. Sims. No. 929,887; Aug. 3; Sp. p. 574; Gaz. vol. 145; p. 90.  
 Steam-generator. A. Wallerstein. No. 930,817; Aug. 10; Sp. p. 2453; Gaz. vol. 145; p. 424.  
 Steam-generator. F. N. Tilton. No. 939,759; Nov. 9; Sp. p. 2909; Gaz. vol. 148; p. 477.  
 Steam-generator. J. C. Parker. No. 941,462; Nov. 30; Sp. p. 6660; Gaz. vol. 148; p. 1129.  
 Steam-generator. B. F. Silliman. No. 943,277; Dec. 14; Sp. p. 2678; Gaz. vol. 149; p. 453.  
 Steam-generator. M. Connor. No. 943,916; Dec. 21; Sp. p. 4058; Gaz. vol. 149; p. 703.  
 Steam generator and heater. F. L. Dutcher. No. 923,034; May 25; Sp. p. 6049; Gaz. vol. 142; p. 1053.  
 Steam generator and superheater combined. C. A. Hammel. No. 931,866; Aug. 24; Sp. p. 4741; Gaz. vol. 145; p. 821.  
 Steam-generator, Electric-arc. W. W. Wonne. No. 915,526; Mar. 16; Sp. p. 3832; Gaz. vol. 140; p. 667.  
 Steam-generator, Electrical. E. I. Rains. No. 944,050; Dec. 21; Sp. p. 4338; Gaz. vol. 149; p. 748.  
 Steam-generator, flue. C. F. Jenkins. No. 926,700; June 29; Sp. p. 7481; Gaz. vol. 143; p. 1319.  
 Steam-generator, flue. C. F. Jenkins. No. 926,701; June 29; Sp. p. 7484; Gaz. vol. 143; p. 1319.  
 Steam-generator for motor-cars. H. A. Turnbull and A. Goding. No. 921,315; May 11; Sp. p. 2499; Gaz. vol. 142; p. 434.  
 Steam-generator for submarine boats. R. D. Montjustin. No. 943,153; Dec. 14; Sp. p. 2427; Gaz. vol. 149; p. 412.  
 Steam-generator, Petrol-heated. M. A. Normand. No. 926,958; July 6; Sp. p. 528; Gaz. vol. 144; p. 86.  
 Steam-generator, superheater, and feed-water heater. F. A. Houghton. No. 943,189; Dec. 14; Sp. p. 2489; Gaz. vol. 149; p. 422.  
 Steam-generators, &c., Door for. T. Downie. No. 923,156; June 1; Sp. p. 78; Gaz. vol. 143; p. 12.



*Alphabetical list of inventions—Continued.*

- Steam-jetting device. E. A. Wildt. No. 924,121; June 8; Sp. p. 2202; Gaz. vol. 143; p. 367.
- Steam, Means for facilitating the production of. J. L. M. A. Reis. No. 934,572; Sept. 21; Sp. p. 3212; Gaz. vol. 146; p. 560.
- Steam-motor, Rotary. F. W. Meyer. No. 915,200; Mar. 16; Sp. p. 3219; Gaz. vol. 140; p. 561.
- Steam or other fluid pressure regulator. W. H. O'Connor. No. 941,092; Nov. 23; Sp. p. 5837; Gaz. vol. 148; p. 985.
- Steam-pressure gage. G. C. Ostermann. No. 918,900; Apr. 20; Sp. p. 4047; Gaz. vol. 141; p. 710.
- Steam-regenerative apparatus. L. P. L. Battu. No. 925,797; June 22; Sp. p. 5691; Gaz. vol. 143; p. 986.
- Steam-separator. P. A. Johnson. No. 918,326; Apr. 13; Sp. p. 2769; Gaz. vol. 141; p. 490.
- Steam-separator. F. L. Allen. No. 935,772; Oct. 5; Sp. p. 334; Gaz. vol. 147; p. 51.
- Steam separator and heater. G. R. Sisterson. No. 918,479; Apr. 13; Sp. p. 3073; Gaz. vol. 141; p. 540.
- Steam-separator, Automatic. W. Austin. No. 917,400; Apr. 6; Sp. p. 894; Gaz. vol. 141; p. 154.
- Steam-shovel. G. E. Turner. No. 922,213; May 18; Sp. p. 4361; Gaz. vol. 142; p. 758.
- Steam-siren. E. Hoenow. No. 916,707; Mar. 30; Sp. p. 6186; Gaz. vol. 140; p. 1108.
- Steam-superheater. H. W. Jacobs. No. 911,993; Feb. 9; Sp. p. 1980; Gaz. vol. 139; p. 347.
- Steam-superheater. E. H. Foster. No. 913,277; Feb. 23; Sp. p. 4648; Gaz. vol. 139; p. 834.
- Steam-superheater. W. Schmidt. No. 917,494; Apr. 6; Sp. p. 1051; Gaz. vol. 141; p. 184.
- Steam-superheater. L. B. Nutting. No. 921,878; May 18; Sp. p. 3683; Gaz. vol. 142; p. 649.
- Steam-supply to producers, Means for automatically controlling the. H. F. Smith. No. 933,592; Sept. 7; Sp. p. 1289; Gaz. vol. 146; p. 191.
- Steam-trap. T. J. Cookson. No. 911,031; Feb. 2; Sp. p. 18; Gaz. vol. 139; p. 5.
- Steam-trap. J. E. Purser. No. 911,268; Feb. 2; Sp. p. 489; Gaz. vol. 139; p. 84.
- Steam-trap. G. M. Hilger. No. 913,498; Feb. 23; Sp. p. 5089; Gaz. vol. 139; p. 909.
- Steam-trap. J. J. and J. W. Kelly. No. 913,509; Feb. 23; Sp. p. 5110; Gaz. vol. 139; p. 912.
- Steam-trap. A. Malcolm. No. 915,780; Mar. 23; Sp. p. 4402; Gaz. vol. 140; p. 781.
- Steam-trap. N. English. No. 918,134; Apr. 13; Sp. p. 2389; Gaz. vol. 141; p. 428.
- Steam-trap. N. English. No. 920,552; May 4; Sp. p. 933; Gaz. vol. 142; p. 150.
- Steam-trap. E. Miller and C. F. Ryer. No. 921,865; May 18; Sp. p. 3664; Gaz. vol. 142; p. 646.
- Steam-trap. A. D. Horne. No. 925,773; June 22; Sp. p. 5636; Gaz. vol. 143; p. 977.
- Steam-trap. H. D. Singer and H. V. D. Pratt. No. 930,699; Aug. 10; Sp. p. 2206; Gaz. vol. 145; p. 385.
- Steam-trap. H. Enz and G. Weinschenker. No. 933,538; Sept. 7; Sp. p. 1189; Gaz. vol. 146; p. 173.
- Steam-trap. C. Stickle. No. 935,426; Sept. 28; Sp. p. 4922; Gaz. vol. 146; p. 870.
- Steam-trap. E. Gofferje. No. 935,753; Oct. 5; Sp. p. 277; Gaz. vol. 147; p. 44.
- Steam-trap. W. Wanstall. No. 936,963; Oct. 12; Sp. p. 2828; Gaz. vol. 147; p. 471.
- Steam-trap. M. J. Boyle. No. 937,505; Oct. 19; Sp. p. 4002; Gaz. vol. 147; p. 679.
- Steam-trap. H. D. Singer and H. V. Pratt. No. 939,450; Nov. 9; Sp. p. 2231; Gaz. vol. 148; p. 371.
- Steam-trap. N. English. No. 939,677; Nov. 9; Sp. p. 2720; Gaz. vol. 148; p. 450.
- Steam-trap. J. W. Barton. No. 941,846; Nov. 30; Sp. p. 7489; Gaz. vol. 148; p. 1259.
- Steam-trap. J. W. Barton. No. 941,847; Nov. 30; Sp. p. 7490; Gaz. vol. 148; p. 1259.
- Steam-trap. C. Stickle. No. 944,295; Dec. 28; Sp. p. 4850; Gaz. vol. 149; p. 855.
- Steam-utilizing system, Exhaust-. Y. Wadagaki. No. 913,330; Feb. 23; Sp. p. 4764; Gaz. vol. 139; p. 853.
- Steam-washer, Automatic. R. E. Jack. No. 940,694; Nov. 23; Sp. p. 4995; Gaz. vol. 148; p. 852.
- Steamer and cooker. R. R. Jensen. No. 911,408; Feb. 2; Sp. p. 745; Gaz. vol. 139; p. 129.
- Steamer, Egg-. B. Wells. No. 936,965; Oct. 12; Sp. p. 2831; Gaz. vol. 147; p. 472.
- Steamer, Wheat-. A. A. Brooks. No. 926,465; June 29; Sp. p. 7041; Gaz. vol. 143; p. 1241.
- Steaming-table. F. Yosi. No. 910,629; Jan. 26; Sp. p. 4518; Gaz. vol. 138; p. 823.
- Steaming tray, Food-. G. S. Walker. No. 935,177; Sept. 28; Sp. p. 4434; Gaz. vol. 146; p. 790.
- Steamship or vessel, Twin. D. M. Pfautz. No. 931,016; Aug. 10; Sp. p. 2907; Gaz. vol. 145; p. 489.
- Steel. H. D. Booth. No. 914,633; Mar. 9; Sp. p. 2051; Gaz. vol. 140; p. 349.
- Steel blades to solid white-metal handles, Attaching. T. B. Lashar. No. 915,777; Mar. 23; Sp. p. 4398; Gaz. vol. 140; p. 780.
- Steel castings, Manufacture of. J. K. Griffith. No. 936,623; Oct. 12; Sp. p. 2170; Gaz. vol. 147; p. 358.
- Steel, Consolidating fine-dust for use in the manufacture of. W. Thomlinson. No. 923,605; June 1; Sp. p. 1113; Gaz. vol. 143; p. 169.
- Steel free from protoxids, Producing. O. Thallner. No. 937,486; Oct. 19; Sp. p. 3962; Gaz. vol. 147; p. 673.
- Steel from low-grade material, Producing high-grade. W. R. Palmer. No. 924,818; June 15; Sp. p. 3702; Gaz. vol. 143; p. 634.
- Steel from low-grade material, Producing high-grade. W. R. Palmer. No. 924,925; June 15; Sp. p. 3922; Gaz. vol. 143; p. 670.
- Steel holding and packing means, Drill-. D. S. Waugh. No. 942,869; Dec. 7; Sp. p. 1744; Gaz. vol. 149; p. 283.
- Steel ingots, Treating manganese-. W. S. Potter. No. 938,892; Nov. 2; Sp. p. 958; Gaz. vol. 148; p. 152.
- Steel, Making. L. M. Atha. No. 943,171; Dec. 14; Sp. p. 2455; Gaz. vol. 149; p. 417.
- Steel, Manganese. W. S. Potter. No. 939,084; Nov. 2; Sp. p. 1349; Gaz. vol. 148; p. 219.
- Steel, Manufacture of. G. J. Stock. No. 933,596; Sept. 7; Sp. p. 1297; Gaz. vol. 146; p. 193.
- Steel, Manufacture of. W. R. Walker. No. 934,247; Sept. 14; Sp. p. 2599; Gaz. vol. 146; p. 430.
- Steel, Manufacture of open-hearth. T. S. Blair, Jr. No. 927,097; July 6; Sp. p. 840; Gaz. vol. 144; p. 134.
- Steel, Metallurgy of. W. S. Simpson and H. Oviatt. No. 918,382; Apr. 13; Sp. p. 2880; Gaz. vol. 141; p. 509.
- Steel, Method and apparatus for treating. W. E. Nickerson. No. 931,332; Aug. 17; Sp. p. 3624; Gaz. vol. 145; p. 625.
- Steel mold, Manganese-. H. M. Howe. No. 913,728; Mar. 2; Sp. p. 105; Gaz. vol. 140; p. 19.
- Steel piling. G. G. Kriwoschein. No. 918,064; Apr. 13; Sp. p. 2247; Gaz. vol. 141; p. 403.
- Steel pipe with a double-armored concrete coating. A. J. Bonna. No. 921,354; May 11; Sp. p. 2601; Gaz. vol. 142; p. 448.
- Steel plant. J. C. Cromwell and H. W. Lash. No. 935,964; Oct. 5; Sp. p. 772; Gaz. vol. 147; p. 115.
- Steel plates, Treating. C. Davis. No. 935,358; Sept. 28; Sp. p. 4803; Gaz. vol. 146; p. 849.
- Steel, Producing and refining. F. C. Perkins. No. 937,855; Oct. 26; Sp. p. 4705; Gaz. vol. 147; p. 814.
- Steel, Producing finished shapes from manganese. W. S. Potter. No. 939,164; Nov. 2; Sp. p. 1532; Gaz. vol. 148; p. 248.
- Steel, Producing finished shapes of manganese. W. S. Potter. No. 938,891; Nov. 2; Sp. p. 955; Gaz. vol. 148; p. 152.
- Steel, Refining. O. Thallner. No. 919,493; Apr. 27; Sp. p. 5476; Gaz. vol. 141; p. 940.
- Steel, Refining. E. Humbert. No. 943,192; Dec. 14; Sp. p. 2498; Gaz. vol. 149; p. 424.
- Steel scrap, Recovering nickel-. R. H. Watson. No. 934,864; Sept. 21; Sp. p. 3798; Gaz. vol. 146; p. 689.
- Steel tie. O. L. Roberts. No. 933,392; Sept. 7; Sp. p. 812; Gaz. vol. 146; p. 126.
- Steel, Tool-. J. M. Darke. No. 919,544; Apr. 27; Sp. p. 5567; Gaz. vol. 141; p. 956.
- Steel, Toughening. S. S. Wales. No. 928,347; July 20; Sp. p. 3449; Gaz. vol. 144; p. 608.
- Steel, Treating manganese. W. S. Potter. No. 939,163; Nov. 2; Sp. p. 1530; Gaz. vol. 148; p. 248.
- Steels for industrial purposes, Treatment of. E. Schneider. No. 931,499; Aug. 17; Sp. p. 3954; Gaz. vol. 145; p. 682.
- Steeping apparatus. A. W. H. Lenders. No. 925,583; June 22; Sp. p. 5201; Gaz. vol. 143; p. 916.
- Steering apparatus, Vessel-. S. Yeager. No. 921,777; May 18; Sp. p. 3472; Gaz. vol. 142; p. 617.
- Steering device. C. E. Brooks. No. 918,122; Apr. 13; Sp. p. 2364; Gaz. vol. 141; p. 423.
- Steering-gear. C. F. Strawn. No. 923,210; June 1; Sp. p. 188; Gaz. vol. 143; p. 31.
- Steering-gear. A. D. Wilt, Jr. No. 923,230; June 1; Sp. p. 226; Gaz. vol. 143; p. 37.
- Steering-gear. R. S. Riley. No. 939,337; Nov. 9; Sp. p. 1926; Gaz. vol. 148; p. 329.
- Steering-gear, Gyroscopic. F. M. Leavitt. No. 925,709; June 22; Sp. p. 5475; Gaz. vol. 143; p. 956.
- Steering mechanism. J. A. Seely. No. 916,893; Mar. 30; Sp. p. 6520; Gaz. vol. 140; p. 1165.
- Steering mechanism. L. Gabettl. No. 928,957; July 27; Sp. p. 4660; Gaz. vol. 144; p. 836.
- Steering mechanism. A. Mauksch. No. 935,610; Sept. 28; Sp. p. 5315; Gaz. vol. 146; p. 932.
- Steering-wheel. E. S. Bryant. No. 920,018; Apr. 21; Sp. p. 6525; Gaz. vol. 141; p. 1114.
- Stemmer and raisin-cleaner, Cap-. W. H. Noland. No. 939,073; Nov. 2; Sp. p. 1323; Gaz. vol. 148; p. 216.
- Stencil. T. C. Hough. No. 931,809; Aug. 17; Sp. p. 3587; Gaz. vol. 145; p. 618.
- Stencil-cutting machine. S. Elliott. No. 927,842; July 13; Sp. p. 2380; Gaz. vol. 144; p. 407.
- Stencil-machine. A. J. Bradley. No. 920,530; May 4; Sp. p. 881; Gaz. vol. 142; p. 143.
- Stencil-machine. G. Remmsnider. No. 922,815; May 25; Sp. p. 5600; Gaz. vol. 142; p. 982.
- Stencils, Making. J. C. Udall. No. 929,730; Aug. 3; Sp. p. 193; Gaz. vol. 145; p. 34.
- Stenciling apparatus. O. James. No. 932,867; Aug. 31; Sp. p. 6844; Gaz. vol. 145; p. 1175.
- Stenciling-machine. E. F. Kunath. No. 934,077; Sept. 14; Sp. p. 2253; Gaz. vol. 146; p. 371.
- Stenographic machine. W. J. Kehoe. No. 940,255; Nov. 16; Sp. p. 3996; Gaz. vol. 148; p. 680.
- Step-by-step motor. L. C. Davidson. No. 934,889; Sept. 21; Sp. p. 3842; Gaz. vol. 146; p. 667.
- Step, Extension-. E. F. Howell. No. 925,476; June 22; Sp. p. 4991; Gaz. vol. 143; p. 881.
- Step or platform attachment. A. L. Wilson. No. 933,148; Sept. 7; Sp. p. 224; Gaz. vol. 146; p. 38.
- Step or running-board. W. Cairns. No. 937,415; Oct. 19; Sp. p. 3812; Gaz. vol. 147; p. 649.
- Step or running-board. G. W. Morse. No. 938,163; Oct. 26; Sp. p. 5374; Gaz. vol. 147; p. 917.

*Alphabetical list of inventions—Continued.*

- Step-switch, Regulating. B. M. McInnerney. No. 925,495; June 22; Sp. p. 5021; Gaz. vol. 143; p. 886.
- Steps, Safety device for treads of. A. I. Davis. No. 942,031; Nov. 30; Sp. p. 7833; Gaz. vol. 148; p. 1320.
- Stereopticon, Dissolving-. C. F. Dutton, Jr. No. 935,193; Sept. 28; Sp. p. 4465; Gaz. vol. 146; p. 794.
- Stereopticon-slide carrier. F. R. Hoy. No. 941,712; Nov. 30; Sp. p. 7190; Gaz. vol. 148; p. 1212.
- Stereoscope. C. H. Graves. No. 932,271; Aug. 24; Sp. p. 5601; Gaz. vol. 145; p. 955.
- Stereoscope, Knockdown. H. E. Richmond. No. 910,087; Jan. 19; Sp. p. 3331; Gaz. vol. 138; p. 613.
- Stereoscopic appliance. G. A. H. Kellner. No. 933,844; Sept. 14; Sp. p. 1805; Gaz. vol. 146; p. 297.
- Stereotype-casting box. S. G. Goss. No. 933,172; Sept. 7; Sp. p. 285; Gaz. vol. 146; p. 47.
- Stereotype-casting device. H. A. W. Wood. No. 932,225; Aug. 24; Sp. p. 5522; Gaz. vol. 145; p. 940.
- Stereotype-matrices, Machine for the production of. F. Mäurer. No. 911,421; Feb. 2; Sp. p. 774; Gaz. vol. 139; p. 134.
- Stereotype metal, Facing. W. R. Fisher. No. 925,321; June 15; Sp. p. 4691; Gaz. vol. 143; p. 801.
- Stereotype plate and base, Separable. A. F. Herbsleb. No. 937,803; Oct. 26; Sp. p. 4597; Gaz. vol. 147; p. 797.
- Stereotype-plate-casting apparatus. H. F. Bechman. No. 925,208; June 15; Sp. p. 4593; Gaz. vol. 143; p. 785.
- Stereotype-trimmer. C. W. Baeder. No. 941,549; Nov. 30; Sp. p. 6835; Gaz. vol. 148; p. 1157.
- Sterilization vessel. G. van Eyck. No. 936,767; Oct. 12; Sp. p. 2446; Gaz. vol. 147; p. 407.
- Sterilizer. W. A. Wiley and J. E. and G. F. Hall. No. 918,409; Apr. 13; Sp. p. 2929; Gaz. vol. 141; p. 516.
- Sterilizer. A. J. Gero. No. 919,710; Apr. 27; Sp. p. 5900; Gaz. vol. 141; p. 1013.
- Sterilizer. R. P. Barnstead. No. 927,764; July 13; Sp. p. 2209; Gaz. vol. 144; p. 382.
- Sterilizer and irrigator, Combination. M. H. Evans. No. 912,452; Feb. 16; Sp. p. 2945; Gaz. vol. 139; p. 535.
- Sterilizer, Utensil-. G. Holden. No. 929,307; July 27; Sp. p. 5422; Gaz. vol. 144; p. 953.
- Sterilizing. A. J. Baldwin and J. F. Lester. No. 920,811; May 4; Sp. p. 1456; Gaz. vol. 142; p. 235.
- Sterilizing apparatus. J. Schoettl. No. 916,611; Mar. 30; Sp. p. 6015; Gaz. vol. 140; p. 1078.
- Sterilizing apparatus. E. Kronman. No. 934,190; Sept. 14; Sp. p. 2485; Gaz. vol. 146; p. 410.
- Sterilizing attachment for the mouthpieces of speaking instruments. W. Williams. No. 944,297; Dec. 28; Sp. p. 5068; Gaz. vol. 149; p. 892.
- Sterilizing fluids. C. B. Bartley. No. 930,023; Aug. 3; Sp. p. 845; Gaz. vol. 145; p. 136.
- Stethoscope. C. J. Pilling. No. 910,854; Jan. 26; Sp. p. 4949; Gaz. vol. 138; p. 894.
- Stick-pin and pencil, Combined. F. A. Rojas. No. 918,475; Apr. 13; Sp. p. 3066; Gaz. vol. 141; p. 539.
- Stiffening materials, Machine for preparing. W. Webster. No. 926,790; July 6; Sp. p. 163; Gaz. vol. 144; p. 28.
- Still, Domestic. F. R. Daley. No. 915,273; Mar. 16; Sp. p. 3344; Gaz. vol. 140; p. 584.
- Still for distilling crude bituminous products. H. W. Ash. No. 917,702; Apr. 6; Sp. p. 1439; Gaz. vol. 141; p. 252.
- Still, Water-. H. J. Behrens. No. 932,950; Aug. 31; Sp. p. 6998; Gaz. vol. 145; p. 1202.
- Stills, Cut-off gate for. R. W. Southerland. No. 926,905; July 6; Sp. p. 419; Gaz. vol. 144; p. 67.
- Stipple member. F. C. Newell. No. 909,444; Jan. 12; Sp. p. 2043; Gaz. vol. 138; p. 363.
- Stirring device. E. Weiss. No. 913,864; Mar. 2; Sp. p. 412; Gaz. vol. 140; p. 67.
- Stirrup. T. E. Alter. No. 909,735; Jan. 12; Sp. p. 2631; Gaz. vol. 138; p. 465.
- Stirrup. J. W. Haddock. No. 911,718; Feb. 9; Sp. p. 1385; Gaz. vol. 139; p. 257.
- Stirrup. G. W. Hooks. No. 931,607; Aug. 17; Sp. p. 4139; Gaz. vol. 145; p. 713.
- Stirrup. F. L. Putney. No. 932,574; Aug. 31; Sp. p. 6227; Gaz. vol. 145; p. 1079.
- Stirrup. F. M. Carter. No. 933,958; Sept. 14; Sp. p. 2027; Gaz. vol. 146; p. 334.
- Stirrup. J. Matsek. No. 944,889; Dec. 28; Sp. p. 6162; Gaz. vol. 149; p. 1060.
- Stirrup, Climbing-. P. H. Speerstra. No. 938,905; Nov. 2; Sp. p. 1006; Gaz. vol. 148; p. 158.
- Stirrup, Safety-. J. A. Batson. No. 914,630; Mar. 9; Sp. p. 2047; Gaz. vol. 140; p. 348.
- Stirrup, Safety-. J. Solatinow. No. 918,212; Apr. 13; Sp. p. 2545; Gaz. vol. 141; p. 453.
- Stirrup, Safety-. J. C. McClure. No. 932,886; Aug. 31; Sp. p. 6884; Gaz. vol. 145; p. 1182.
- Stirrup, Safety-. J. L. James. No. 939,697; Nov. 9; Sp. p. 2762; Gaz. vol. 148; p. 455.
- Stirrup, Safety-. W. V. Johnston. No. 942,731; Dec. 7; Sp. p. 1547; Gaz. vol. 149; p. 254.
- Stirrup, Sulky-. L. D. Morton. No. 908,599; Jan. 5; Sp. p. 356; Gaz. vol. 138; p. 58.
- Stitch machine, Impression or imitation-. A. C. Spencer. No. 917,807; Apr. 13; Sp. p. 1692; Gaz. vol. 141; p. 314.
- Stitch-making machine, Imitation-. J. B. Hadaway. No. 933,174; Sept. 7; Sp. p. 289; Gaz. vol. 146; p. 48.
- Stitch separating and indenting machine. J. B. Hadaway. No. 933,175; Sept. 7; Sp. p. 292; Gaz. vol. 146; p. 48.
- Stitch-separating machine. F. P. Taylor. No. 938,400; Oct. 26; Sp. p. 5891; Gaz. vol. 147; p. 999.
- Stitching apparatus, Book-. M. Christensen. No. 937,925; Oct. 26; Sp. p. 4850; Gaz. vol. 147; p. 838.
- Stitching horse, Harness or leather. H. J. Bowman. No. 926,975; July 6; Sp. p. 557; Gaz. vol. 144; p. 91.
- Stitching machine, Book-. F. Kugler. No. 936,643; Oct. 12; Sp. p. 2206; Gaz. vol. 147; p. 365.
- Stitching machine for pamphlets and similar articles, Thread-. H. L. Roberts. No. 944,051; Dec. 21; Sp. p. 4341; Gaz. vol. 149; p. 748.
- Stitching machine, Wire-. R. H. Brown. No. 923,134; June 1; Sp. p. 16; Gaz. vol. 143; p. 15.
- Stitching machines, Trimming attachment for. C. A. Bonney. No. 929,653; Aug. 3; Sp. p. 14; Gaz. vol. 145; p. 5.
- Stock and die. J. E. Dundore. No. 935,311; Oct. 12; Sp. p. 1464; Gaz. vol. 147; p. 253.
- Stock and poultry fountain. A. A. Kramer. No. 940,259; Nov. 16; Sp. p. 4005; Gaz. vol. 148; p. 682.
- Stock, Cushioned. B. F. Schmidt. No. 935,822; Oct. 5; Sp. p. 478; Gaz. vol. 147; p. 68.
- Stock-detaching device, Live-. C. I. Aggerbeck. No. 943,641; Dec. 21; Sp. p. 3493; Gaz. vol. 149; p. 609.
- Stock-dipping tank, Automatic. E. M. Records. No. 934,571; Sept. 21; Sp. p. 3211; Gaz. vol. 146; p. 500.
- Stock-feeding device, Automatic. F. Olsen. No. 911,674; Feb. 9; Sp. p. 1299; Gaz. vol. 139; p. 242.
- Stock-fountain. J. B. Hawkins. No. 914,570; Mar. 9; Sp. p. 1928; Gaz. vol. 140; p. 329.
- Stock gripping and marking device. G. Deno. No. 916,661; Mar. 30; Sp. p. 6141; Gaz. vol. 140; p. 1100.
- Stock-marker. G. M. Jackson. No. 915,355; Mar. 16; Sp. p. 3500; Gaz. vol. 140; p. 611.
- Stock-marker. C. F. Moffitt. No. 917,961; Apr. 13; Sp. p. 2017; Gaz. vol. 141; p. 366.
- Stock-releaser. L. F. Lemon and J. C. Stoops. No. 942,875; Dec. 7; Sp. p. 1767; Gaz. vol. 149; p. 285.
- Stock-releasing device. A. W. Thompson. No. 930,505; Aug. 10; Sp. p. 1778; Gaz. vol. 145; p. 320.
- Stock-salting device. B. R. Bonney. No. 925,619; June 22; Sp. p. 5277; Gaz. vol. 143; p. 928.
- Stock tying and releasing device, Live-. G. Dani. No. 920,923; May 11; Sp. p. 1702; Gaz. vol. 142; p. 302.
- Stocking. G. T. Dreunann. No. 940,585; Nov. 16; Sp. p. 4751; Gaz. vol. 148; p. 791.
- Stocking, Self-supporting. G. Graham. No. 941,193; Nov. 23; Sp. p. 6076; Gaz. vol. 148; p. 1019.
- Stocking-shaping-board holder. F. C. Winkelspecht. No. 919,412; Apr. 27; Sp. p. 5265; Gaz. vol. 141; p. 911.
- Stocking-supporter. J. F. Graham. No. 917,591; Apr. 6; Sp. p. 1231; Gaz. vol. 141; p. 216.
- Stockings, Holder for mending. H. R. Graf. No. 916,926; Mar. 30; Sp. p. 6603; Gaz. vol. 140; p. 1177.
- Stockings, Knitting. J. Black. No. 910,896; Jan. 26; Sp. p. 5034; Gaz. vol. 138; p. 906.
- Stockings, Knitting. J. Black. No. 912,934; Feb. 16; Sp. p. 3943; Gaz. vol. 139; p. 694.
- Stoker. G. Andersen. No. 941,486; Nov. 30; Sp. p. 6713; Gaz. vol. 148; p. 1137.
- Stoker, Automatic. H. Clouston. No. 908,747; Jan. 5; Sp. p. 677; Gaz. vol. 135; p. 105.
- Stoker, Automatic. J. M. Roe. No. 913,771; Mar. 2; Sp. p. 200; Gaz. vol. 140; p. 33.
- Stoker, Automatic. J. M. Fleming. No. 944,778; Dec. 28; Sp. p. 5925; Gaz. vol. 149; p. 1021.
- Stoker, Boiler-. J. E. Bell. No. 932,369; Aug. 24; Sp. p. 5782; Gaz. vol. 145; p. 987.
- Stoker for furnaces, Mechanical. F. W. Seyboth. No. 939,869; Nov. 9; Sp. p. 3116; Gaz. vol. 148; p. 514.
- Stoker for locomotive-boilers, Mechanical. J. H. Lowe. No. 924,364; June 8; Sp. p. 2763; Gaz. vol. 143; p. 450.
- Stoker, Locomotive mechanical. D. F. Crawford. No. 941,698; Nov. 30; Sp. p. 7148; Gaz. vol. 148; p. 1207.
- Stoker, Mechanical. J. A. Caldwell. No. 917,750; Apr. 13; Sp. p. 1565; Gaz. vol. 141; p. 295.
- Stoker, Mechanical. W. H. Strouse. No. 918,217; Apr. 13; Sp. p. 2554; Gaz. vol. 141; p. 455.
- Stoker, Mechanical. W. H. Strouse. No. 918,482; Apr. 13; Sp. p. 3078; Gaz. vol. 141; p. 541.
- Stoker, Mechanical. J. and W. Reagan. No. 925,723; June 22; Sp. p. 5503; Gaz. vol. 143; p. 960.
- Stoker, Mechanical. T. V. Elliott. No. 942,060; Dec. 7; Sp. p. 34; Gaz. vol. 149; p. 8.
- Stoker, Mechanical. H. Snyder and J. T. Hume. No. 943,712; Dec. 21; Sp. p. 3627; Gaz. vol. 149; p. 631.
- Stoker, Mechanical. P. J. Harleman. No. 944,551; Dec. 28; Sp. p. 5437; Gaz. vol. 149; p. 945.
- Stoker, Underfeed fuel-. G. Weiland. No. 931,536; Aug. 17; Sp. p. 4016; Gaz. vol. 145; p. 692.
- Stone and stump removing machine. A. Villeneuve. No. 935,132; Sept. 28; Sp. p. 4352; Gaz. vol. 146; p. 776.
- Stone, Artificial. C. A. Begle. No. 916,409; Mar. 30; Sp. p. 5583; Gaz. vol. 140; p. 1011.
- Stone blocks, Mold for forming artificial-. E. M. Lane. No. 919,891; Apr. 27; Sp. p. 6287; Gaz. vol. 141; p. 1074.
- Stone composition, Artificial-. E. W. Anderson. No. 927,312; July 6; Sp. p. 1240; Gaz. vol. 144; p. 204.
- Stone composition, Artificial-. B. Hövermann. No. 932,706; Aug. 31; Sp. p. 6519; Gaz. vol. 145; p. 1123.
- Stone-crusher. J. M. Stone. No. 921,749; May 18; Sp. p. 3406; Gaz. vol. 142; p. 606.
- Stone-crusher head. W. G. Nichols. No. 940,352; Nov. 16; Sp. p. 4228; Gaz. vol. 148; p. 713.
- Stone-cutting machine. E. A. Chase. No. 916,104; Mar. 23; Sp. p. 5001; Gaz. vol. 140; p. 886.



*Alphabetical list of inventions—Continued.*

- Stone-cutting machine. W. F. Meyers. No. 939,528; Nov. 9; Sp. p. 2388; Gaz. vol. 148; p. 396.  
 Stone-drill. C. E. Hall. No. 927,723; July 13; Sp. p. 2127; Gaz. vol. 144; p. 369.  
 Stone, Facing artificial. J. C. Henderson. No. 906,792; Jan. 12; Sp. p. 2738; Gaz. vol. 138; p. 482.  
 Stone-fluting machine. G. N. Williams, Jr. No. 939,577; Nov. 9; Sp. p. 2497; Gaz. vol. 148; p. 413.  
 Stone-gatherer. J. M. Rorabaw. No. 940,558; Nov. 16; Sp. p. 4698; Gaz. vol. 148; p. 782.  
 Stone, Manufacture of artificial. W. Lake. No. 938,248; Oct. 26; Sp. p. 5547; Gaz. vol. 147; p. 948.  
 Stone, Manufacturing artificial. A. Brany. No. 934,710; Sept. 21; Sp. p. 3496; Gaz. vol. 146; p. 609.  
 Stone mold, Artificial-. T. V. Galassi. No. 935,483; Sept. 28; Sp. p. 5024; Gaz. vol. 146; p. 888.  
 Stone-molding apparatus. J. E. W. Bryning. No. 934,791; Sept. 21; Sp. p. 3657; Gaz. vol. 146; p. 635.  
 Stone or concrete post mold, Artificial-. O. Dougherty, J. W. and A. E. Armstrong. No. 912,367; Feb. 16; Sp. p. 2772; Gaz. vol. 139; p. 505.  
 Stone or rock channeling machine. A. Ball. No. 927,444; July 6; Sp. p. 1499; Gaz. vol. 144; p. 248.  
 Stone-polishing wheel. S. H. Mills. No. 930,778; Aug. 10; Sp. p. 2372; Gaz. vol. 145; p. 410.  
 Stone press, Artificial-. J. Draenert. No. 924,540; June 8; Sp. p. 3111; Gaz. vol. 143; p. 507.  
 Stone-saw. A. W. Livingston. No. 918,874; Apr. 20; Sp. p. 3986; Gaz. vol. 141; p. 700.  
 Stone-saw. J. Gillies. No. 933,473; Nov. 2; Sp. p. 38; Gaz. vol. 148; p. 9.  
 Stone-saw, Circular. C. C. Griswold and E. C. Chambers. No. 925,333; June 15; Sp. p. 4707; Gaz. vol. 143; p. 804.  
 Stone-sawing machine. A. W. Livingston. No. 919,194; Apr. 20; Sp. p. 4606; Gaz. vol. 141; p. 804.  
 Stone-sawing machine. A. W. Livingston. No. 919,195; Apr. 20; Sp. p. 4609; Gaz. vol. 141; p. 804.  
 Stone-sawing machine. G. L. Fuller. No. 925,767; June 22; Sp. p. 5621; Gaz. vol. 143; p. 975.  
 Stone-sawing machine. M. Walner and M. Owens. No. 936,748; Oct. 12; Sp. p. 2408; Gaz. vol. 147; p. 401.  
 Stone-tooling machine. J. B. Heighington. No. 909,296; Jan. 12; Sp. p. 1762; Gaz. vol. 138; p. 317.  
 Stoneworking-tool. G. N. Williams, Jr. No. 925,546; June 22; Sp. p. 5125; Gaz. vol. 143; p. 903.  
 Stony or earthy materials, Apparatus for the treatment of. H. E. Rüsager. No. 933,669; Sept. 7; Sp. p. 1435; Gaz. vol. 146; p. 216.  
 Stool. F. K. Crumb. No. 938,219; Oct. 26; Sp. p. 5490; Gaz. vol. 147; p. 938.  
 Stool and foot-rest, Combined. M. L. Porter. No. 942,975; Dec. 14; Sp. p. 2026; Gaz. vol. 149; p. 351.  
 Stool, Collapsible. J. A. A. Johnson. No. 908,999; Jan. 5; Sp. p. 1170; Gaz. vol. 138; p. 186.  
 Stool, Folding. C. A. Bufington. No. 914,239; Mar. 2; Sp. p. 1245; Gaz. vol. 140; p. 194.  
 Stool, Kitchen and laundry. B. A. Massey. No. 911,893; Feb. 9; Sp. p. 1695; Gaz. vol. 139; p. 314.  
 Stool, Outing-. R. H. Durand. No. 925,314; June 15; Sp. p. 4679; Gaz. vol. 143; p. 799.  
 Stool, Shoe-fitting. H. H. Kramer. No. 942,965; Dec. 14; Sp. p. 2006; Gaz. vol. 149; p. 348.  
 Stop mechanism, Automatic. F. Snow. No. 912,042; Feb. 9; Sp. p. 2084; Gaz. vol. 139; p. 362.  
 Stop mechanism, Automatic. V. Hoxie. No. 943,411; Dec. 14; Sp. p. 2954; Gaz. vol. 149; p. 498.  
 Stop-motion mechanism, Thread-controlled. C. H. Whitcher. No. 918,803; Apr. 20; Sp. p. 3819; Gaz. vol. 141; p. 676.  
 Stop-motion mechanism, Thread-controlled. C. H. Whitcher. (Reissue.) No. 13,018; Aug. 31; Sp. p. 7189; Gaz. vol. 145; p. 1234.  
 Stop-motion, Rotary. F. Snow. No. 912,040; Feb. 9; Sp. p. 2077; Gaz. vol. 139; p. 362.  
 Stop-motion, Twister. A. E. Rhoades. No. 941,463; Nov. 30; Sp. p. 6654; Gaz. vol. 148; p. 1129.  
 Stop, Non-reversing. R. J. Moulton. No. 925,715; June 22; Sp. p. 5491; Gaz. vol. 143; p. 958.  
 Stopper. See Bottle-stopper; Bottle and jar stopper; Flue-stopper; Jar or bottle stopper; Sprinkler emergency-stopper; Stovepipe-thimble and flue-stopper.  
 Stopper. K. Friedman. No. 931,406; Aug. 17; Sp. p. 3777; Gaz. vol. 145; p. 652.  
 Stopper. B. J. Morrison. No. 931,458; Aug. 17; Sp. p. 3876; Gaz. vol. 145; p. 668.  
 Stepper. O. A. Borden. No. 941,302; Nov. 23; Sp. p. 6304; Gaz. vol. 148; p. 1054.  
 Stopping mechanism. T. G. Plant. No. 940,052; Nov. 16; Sp. p. 3555; Gaz. vol. 148; p. 608.  
 Stoppole-mold. W. F. Schacht. No. 923,585; June 1; Sp. p. 1065; Gaz. vol. 143; p. 162.  
 Stoppole-puller. E. Sanborn. No. 923,897; June 8; Sp. p. 1780; Gaz. vol. 143; p. 296.  
 Storage and dispensing vessel. G. E. Walton. No. 927,195; July 6; Sp. p. 1023; Gaz. vol. 144; p. 166.  
 Storage battery. T. A. Edison. No. 914,342; Mar. 2; Sp. p. 1452; Gaz. vol. 140; p. 226.  
 Storage battery. E. C. Ekströmer. No. 914,646; Mar. 9; Sp. p. 2070; Gaz. vol. 140; p. 352.  
 Storage battery. E. C. and M. Ekströmer. No. 918,832; Apr. 20; Sp. p. 3894; Gaz. vol. 141; p. 686.  
 Storage battery. J. Stirlen and W. Gardiner. No. 926,649; June 29; Sp. p. 7380; Gaz. vol. 143; p. 1302.  
 Storage battery. R. N. Chamberlain. No. 929,121; July 27; Sp. p. 5008; Gaz. vol. 144; p. 891.  
 Storage battery. R. N. Chamberlain. No. 930,727; Aug. 10; Sp. p. 2267; Gaz. vol. 145; p. 394.  
 Storage battery. R. N. Chamberlain, H. E. Pratt, and A. S. Hubbard. No. 930,728; Aug. 10; Sp. p. 2269; Gaz. vol. 145; p. 395.  
 Storage battery. L. H. Flanders. No. 937,586; Oct. 19; Sp. p. 4156; Gaz. vol. 147; p. 707.  
 Storage battery. G. M. W. Goetting. No. 939,006; Nov. 2; Sp. p. 1197; Gaz. vol. 148; p. 192.  
 Storage battery. A. O. Tate. No. 940,288; Nov. 16; Sp. p. 4076; Gaz. vol. 148; p. 691.  
 Storage battery. D. P. Perry. No. 942,279; Dec. 7; Sp. p. 543; Gaz. vol. 149; p. 84.  
 Storage battery. L. H. Flanders. No. 943,345; Dec. 14; Sp. p. 2831; Gaz. vol. 149; p. 476.  
 Storage battery, Electric. C. S. Cole. No. 910,991; Jan. 26; Sp. p. 5203; Gaz. vol. 138; p. 938.  
 Storage battery, Electric. H. K. Hess. No. 912,242; Feb. 9; Sp. p. 2465; Gaz. vol. 139; p. 425.  
 Storage battery, Electric. B. Ford. No. 930,065; Aug. 3; Sp. p. 933; Gaz. vol. 145; p. 150.  
 Storage-battery electrodes, Making. T. A. Edison. No. 914,343; Mar. 2; Sp. p. 1454; Gaz. vol. 140; p. 227.  
 Storage-battery jar. C. W. Bentley. No. 915,328; Mar. 16; Sp. p. 3451; Gaz. vol. 140; p. 602.  
 Storage-battery stand and means for raising and supporting plates, &c. O. H. Nelson. No. 914,301; Mar. 2; Sp. p. 1375; Gaz. vol. 140; p. 213.  
 Storage-bin. G. W. Boll. No. 932,243; Aug. 24; Sp. p. 5556; Gaz. vol. 145; p. 946.  
 Storage-chamber stuffing-box. F. A. Dailey and B. Long. No. 934,289; Sept. 14; Sp. p. 2668; Gaz. vol. 146; p. 443.  
 Storage-receptacle. E. Herrmann. No. 944,435; Dec. 28; Sp. p. 5153; Gaz. vol. 149; p. 904.  
 Store-front and show-case construction. A. G. Higgins. No. 915,599; Mar. 16; Sp. p. 4003; Gaz. vol. 140; p. 601.  
 Store-front construction. E. S. Rhoads. No. 921,163; May 11; Sp. p. 2171; Gaz. vol. 142; p. 382.  
 Store-front construction. E. S. Rhoads. No. 934,696; Sept. 21; Sp. p. 3472; Gaz. vol. 146; p. 605.  
 Store-house for vegetables. M. E. Bradley. No. 934,274; Sept. 14; Sp. p. 2640; Gaz. vol. 146; p. 438.  
 Store-service apparatus. C. J. Miller. No. 910,141; Jan. 19; Sp. p. 3438; Gaz. vol. 138; p. 630.  
 Store-service apparatus. G. Staib. No. 936,052; Oct. 5; Sp. p. 961; Gaz. vol. 147; p. 144.  
 Store-service credit-system apparatus. C. F. Kettering. No. 939,267; Nov. 9; Sp. p. 1772; Gaz. vol. 148; p. 308.  
 Storm-front cleaner. L. A. Wilson. No. 910,624; Jan. 26; Sp. p. 4508; Gaz. vol. 138; p. 821.  
 Storm-shield. A. L. Brown. No. 924,424; June 8; Sp. p. 2874; Gaz. vol. 143; p. 469.  
 Storm-shield. C. F. Wensinger. No. 940,413; Nov. 16; Sp. p. 4388; Gaz. vol. 148; p. 734.  
 Stove. G. M. Adams. No. 908,436; Jan. 5; Sp. p. 1; Gaz. vol. 138; p. 3.  
 Stove. A. McNulty. No. 913,149; Feb. 23; Sp. p. 4384; Gaz. vol. 139; p. 792.  
 Stove. E. R. Cahoon. No. 914,922; Mar. 9; Sp. p. 2640; Gaz. vol. 140; p. 442.  
 Stove. S. Boal. No. 916,660; Mar. 30; Sp. p. 6100; Gaz. vol. 140; p. 1093.  
 Stove. G. W. Cope and H. R. Gummer. No. 916,915; Mar. 30; Sp. p. 6577; Gaz. vol. 140; p. 1172.  
 Stove. E. B. Hammond. No. 918,042; Apr. 13; Sp. p. 2201; Gaz. vol. 141; p. 396.  
 Stove. M. M. Dillon. No. 919,553; Apr. 27; Sp. p. 5581; Gaz. vol. 141; p. 959.  
 Stove. E. R. Cahoon. No. 932,959; Aug. 31; Sp. p. 7011; Gaz. vol. 145; p. 1205.  
 Stove. F. S. Lang. No. 934,445; Sept. 21; Sp. p. 2982; Gaz. vol. 146; p. 520.  
 Stove. F. Madsen. No. 934,739; Sept. 21; Sp. p. 3548; Gaz. vol. 146; p. 618.  
 Stove. E. C. Cole. No. 934,887; Sept. 21; Sp. p. 3840; Gaz. vol. 146; p. 666.  
 Stove. C. S. Davis. No. 934,891; Sept. 21; Sp. p. 3847; Gaz. vol. 146; p. 668.  
 Stove. E. W. Anthony. No. 938,543; Nov. 2; Sp. p. 236; Gaz. vol. 148; p. 34.  
 Stove. L. Moore. No. 939,529; Nov. 9; Sp. p. 2391; Gaz. vol. 148; p. 396.  
 Stove. J. E. Choltus and H. Jeannesson. No. 939,890; Nov. 9; Sp. p. 3165; Gaz. vol. 148; p. 522.  
 Stove. J. M. Johnson and G. W. Noble. No. 941,321; Nov. 23; Sp. p. 6335; Gaz. vol. 148; p. 1059.  
 Stove. E. R. Cahoon. No. 941,974; Nov. 30; Sp. p. 7733; Gaz. vol. 148; p. 1302.  
 Stove. W. G. Shoals. No. 944,154; Dec. 21; Sp. p. 4558; Gaz. vol. 149; p. 782.  
 Stove, Air-tight heating-. L. W. Hemp. No. 918,318; Apr. 13; Sp. p. 2754; Gaz. vol. 141; p. 488.  
 Stove and fireplace backboard, Gas-. H. Rosamyer. No. 909,678; Jan. 12; Sp. p. 2507; Gaz. vol. 138; p. 445.  
 Stove and hot-water heater, Gas-. J. L. Levering. No. 909,624; Jan. 12; Sp. p. 2407; Gaz. vol. 138; p. 426.  
 Stove and range top, Cooking. B. B. Culver. No. 941,064; Nov. 23; Sp. p. 5779; Gaz. vol. 148; p. 975.  
 Stove and the like. C. W. Smith. No. 910,876; Jan. 26; Sp. p. 4996; Gaz. vol. 138; p. 901.  
 Stove and water-boiler, Combination gas-. R. Schneider. No. 938,021; Oct. 26; Sp. p. 5053; Gaz. vol. 147; p. 869.  
 Stove antirust compound. C. F. Green. No. 913,208; Feb. 23; Sp. p. 4503; Gaz. vol. 139; p. 811.

*Alphabetical list of inventions—Continued.*

- Stove attachment. C. A. Notman. (Reissue.) No. 12,984; July 6; Sp. p. 1564; Gaz. vol. 144; p. 257.  
 Stove attachment. M. Carney. No. 944,317; Dec. 28; Sp. p. 4897; Gaz. vol. 149; p. 863.  
 Stove attachment, Cook-. O. Deschamps. No. 940,238; Nov. 16; Sp. p. 3962; Gaz. vol. 148; p. 674.  
 Stove attachment, Gas-. H. Knudsen. No. 928,770; July 20; Sp. p. 4285; Gaz. vol. 144; p. 747.  
 Stove auxiliary heater. W. Pett. No. 912,883; Feb. 16; Sp. p. 3848; Gaz. vol. 139; p. 678.  
 Stove, Coal-burning. G. G. Kaiser. No. 914,847; Mar. 9; Sp. p. 2508; Gaz. vol. 140; p. 419.  
 Stove combined canopy and ventilator. J. P. Hahn. No. 916,699; Mar. 30; Sp. p. 6172; Gaz. vol. 140; p. 1105.  
 Stove, Combined gas and coal heating-. A. C. Mott, Jr. No. 926,585; June 29; Sp. p. 7247; Gaz. vol. 143; p. 1281.  
 Stove, Cooking-. H. S. Cleveland. No. 918,734; Apr. 20; Sp. p. 3694; Gaz. vol. 141; p. 655.  
 Stove, Cooking-. H. S. Cleveland. No. 918,826; Apr. 20; Sp. p. 3881; Gaz. vol. 141; p. 684.  
 Stove, Cooking-. H. A. Winterknight. No. 944,757; Dec. 28; Sp. p. 5891; Gaz. vol. 149; p. 1015.  
 Stove damper, Gas and gasoline. G. E. Davis. No. 913,626; Feb. 23; Sp. p. 5390; Gaz. vol. 139; p. 952.  
 Stove-deflector. E. Stombaugh. No. 921,481; May 11; Sp. p. 2852; Gaz. vol. 142; p. 491.  
 Stove, Dismountable petroleum or the like. A. F. Chiesanova. No. 935,639; Oct. 5; Sp. p. 23; Gaz. vol. 147; p. 6.  
 Stove-door. B. A. Baxter. No. 944,475; Dec. 28; Sp. p. 5244; Gaz. vol. 149; p. 918.  
 Stove-door fender. J. W. Chauncey. No. 920,270; May 4; Sp. p. 394; Gaz. vol. 142; p. 59.  
 Stove-door latch, Gas-. R. Hoffman. No. 927,240; July 6; Sp. p. 1116; Gaz. vol. 144; p. 181.  
 Stove draft apparatus. A. J. Kampe. No. 913,826; Mar. 2; Sp. p. 302; Gaz. vol. 140; p. 52.  
 Stove, Electrically-operated. H. Hertzberg and M. J. Wohl. No. 918,747; Apr. 20; Sp. p. 3716; Gaz. vol. 141; p. 659.  
 Stove, Flat-iron. E. L. Hegarty and H. L. Moody. No. 920,569; May 4; Sp. p. 966; Gaz. vol. 142; p. 157.  
 Stove, Folding camp-. C. L. Swinney. No. 937,890; Oct. 26; Sp. p. 4777; Gaz. vol. 147; p. 825.  
 Stove frame, Gas-. F. Graff, Jr. No. 941,141; Nov. 23; Sp. p. 5956; Gaz. vol. 148; p. 1002.  
 Stove, furnace, and the like. H. Gerdes. No. 924,548; June 8; Sp. p. 3127; Gaz. vol. 143; p. 510.  
 Stove, Gas-. C. L. Dickerman and W. Newman. No. 908,451; Jan. 5; Sp. p. 37; Gaz. vol. 138; p. 8.  
 Stove, Gas-. A. B. Clunies. No. 910,503; Jan. 26; Sp. p. 4253; Gaz. vol. 138; p. 781.  
 Stove, Gas-. W. Thompson. No. 917,186; Apr. 6; Sp. p. 455; Gaz. vol. 141; p. 80.  
 Stove, Gas-. M. O'Brien. No. 924,183; June 8; Sp. p. 2373; Gaz. vol. 143; p. 389.  
 Stove, Gas-. C. P. Hensley. No. 928,048; July 13; Sp. p. 2803; Gaz. vol. 144; p. 477.  
 Stove, Gas-. J. I. Orkin. No. 937,951; Oct. 26; Sp. p. 4900; Gaz. vol. 147; p. 847.  
 Stove, Gas-. S. H. Blodgett. No. 941,908; Nov. 30; Sp. p. 7608; Gaz. vol. 148; p. 1281.  
 Stove, Gas-consuming heating-. W. C. Hilliker. No. 910,536; Jan. 26; Sp. p. 4307; Gaz. vol. 138; p. 791.  
 Stove, Gas cooking-. L. Kahn. No. 931,312; Aug. 17; Sp. p. 3591; Gaz. vol. 145; p. 619.  
 Stove-grate. J. Jefferson. No. 913,211; Feb. 23; Sp. p. 4508; Gaz. vol. 139; p. 812.  
 Stove, Heating. C. W. Baker. No. 910,109; Jan. 19; Sp. p. 3370; Gaz. vol. 138; p. 619.  
 Stove, Heating-. E. B. Colby. No. 912,077; Feb. 9; Sp. p. 2165; Gaz. vol. 139; p. 374.  
 Stove, Heating-. E. R. Cahoon. No. 914,923; Mar. 9; Sp. p. 2642; Gaz. vol. 140; p. 443.  
 Stove, Heating-. J. A. Tynan. (Reissue.) No. 12,937; Apr. 6; Sp. p. 1536; Gaz. vol. 141; p. 268.  
 Stove, Heating-. E. R. Cahoon. No. 918,823; Apr. 20; Sp. p. 3875; Gaz. vol. 141; p. 683.  
 Stove, Heating-. W. H. Jones and D. W. Shepherd. No. 921,612; May 11; Sp. p. 3118; Gaz. vol. 142; p. 533.  
 Stove, Heating-. E. R. Cahoon. No. 928,737; July 20; Sp. p. 4225; Gaz. vol. 144; p. 736.  
 Stove, Heating-. A. K. Beckwith. No. 931,374; Aug. 17; Sp. p. 3712; Gaz. vol. 145; p. 641.  
 Stove, Heating-. H. F. Arenberg. No. 942,805; Dec. 7; Sp. p. 1585; Gaz. vol. 149; p. 261.  
 Stove-hood. A. Brouillet. No. 913,465; Feb. 23; Sp. p. 5028; Gaz. vol. 139; p. 898.  
 Stove, Hot-blast. J. I. Larimer. No. 912,967; Feb. 16; Sp. p. 4017; Gaz. vol. 139; p. 705.  
 Stove-ld. E. J. Renkenberger. No. 914,306; Mar. 2; Sp. p. 1384; Gaz. vol. 140; p. 215.  
 Stove-lifter. R. H. Hall. No. 910,810; Jan. 26; Sp. p. 4882; Gaz. vol. 138; p. 881.  
 Stove, Oil-. W. R. Jeavons. No. 908,997; Jan. 5; Sp. p. 1165; Gaz. vol. 138; p. 185.  
 Stove oil-burner attachment. J. M. Barnes. No. 909,132; Jan. 12; Sp. p. 1458; Gaz. vol. 138; p. 265.  
 Stove, Oil-gas cooking-. O. E. V. Ericson. No. 938,747; Nov. 2; Sp. p. 640; Gaz. vol. 148; p. 102.  
 Stove or furnace grate. J. A. Tynan. No. 917,382; Apr. 6; Sp. p. 860; Gaz. vol. 141; p. 147.  
 Stove or range. D. D. Berry. No. 917,239; Apr. 6; Sp. p. 566; Gaz. vol. 141; p. 99.  
 Stove or range, Gas-. W. A. Mills. No. 910,301; Jan. 19; Sp. p. 3822; Gaz. vol. 138; p. 688.  
 Stove or range top, Kitchen. J. Lauer and J. Demeter. No. 935,313; Sept. 28; Sp. p. 4703; Gaz. vol. 146; p. 835.  
 Stove oven-burners, Valve-locking device for gas-. A. C. Pope and H. Kahl. No. 926,603; June 29; Sp. p. 7293; Gaz. vol. 143; p. 1287.  
 Stove, Pocket-. B. Scamardi. No. 943,569; Dec. 14; Sp. p. 3294; Gaz. vol. 149; p. 553.  
 Stove, Portable. W. B. Seeley. No. 936,482; Oct. 12; Sp. p. 1873; Gaz. vol. 147; p. 310.  
 Stove, Regenerative. A. C. Nelson. No. 925,827; June 22; Sp. p. 5754; Gaz. vol. 143; p. 996.  
 Stove regulator, Gas-. C. H. Herr. No. 929,090; July 27; Sp. p. 4936; Gaz. vol. 144; p. 880.  
 Stove regulator, Gas-. A. M. Johnson. No. 940,391; Nov. 16; Sp. p. 4343; Gaz. vol. 148; p. 727.  
 Stove, Reversible-draft. E. R. Stasch. No. 915,500; Mar. 16; Sp. p. 3790; Gaz. vol. 140; p. 659.  
 Stove stand, Gas-. W. F. Krumsee. No. 941,524; Nov. 30; Sp. p. 6785; Gaz. vol. 148; p. 1149.  
 Stove-top-plate lift. C. Hofmeister. No. 922,428; May 18; Sp. p. 4788; Gaz. vol. 142; p. 829.  
 Stove-tray. W. C. and M. Bihler. No. 916,657; Mar. 30; Sp. p. 6093; Gaz. vol. 140; p. 1092.  
 Stove, Vapor-. G. E. Savage and E. A. Gutermann. No. 909,945; Jan. 19; Sp. p. 3052; Gaz. vol. 138; p. 565.  
 Stove, Vapor-. G. E. Savage and E. A. Gutermann. No. 909,946; Jan. 19; Sp. p. 3054; Gaz. vol. 138; p. 566.  
 Stove, Vapor-. G. E. Savage and J. W. Chapman. No. 913,649; Feb. 23; Sp. p. 5452; Gaz. vol. 139; p. 960.  
 Stove ventilator and hood, Cook-. P. Bernstein. No. 944,170; Dec. 21; Sp. p. 4593; Gaz. vol. 149; p. 788.  
 Stoves, Automatic regulator for gas-. H. Junkers. No. 926,194; June 29; Sp. p. 6522; Gaz. vol. 143; p. 1153.  
 Stoves, Checker-brick for hot-blast. D. Lamond. No. 935,372; Sept. 28; Sp. p. 4823; Gaz. vol. 146; p. 853.  
 Stoves, Electric igniter for gas-. R. Hofmeister. No. 933,450; Sept. 7; Sp. p. 927; Gaz. vol. 146; p. 142.  
 Stoves, Heat-storing attachment for. L. R. Smith. No. 944,515; Dec. 28; Sp. p. 5354; Gaz. vol. 149; p. 933.  
 Stoves, lamps, &c., Attachment for gas-. W. A. Caldwell, Jr. No. 922,666; May 25; Sp. p. 5290; Gaz. vol. 142; p. 935.  
 Stoves, Making bottom cleats on. W. E. Wood. No. 910,254; Jan. 19; Sp. p. 3720; Gaz. vol. 138; p. 672.  
 Stoves, Manifold for gas-. W. Thompson. No. 926,835; July 6; Sp. p. 270; Gaz. vol. 144; p. 43.  
 Stoves, Oven for gas or vapor burning. W. Thompson. No. 938,914; Nov. 2; Sp. p. 1022; Gaz. vol. 148; p. 162.  
 Stoves, ranges, &c., Oven-door for. W. G. Moore. No. 910,142; Jan. 19; Sp. p. 3440; Gaz. vol. 138; p. 630.  
 Stovepipe. J. T. Rider. No. 912,490; Feb. 16; Sp. p. 3022; Gaz. vol. 139; p. 546.  
 Stovepipe. E. U. Phillips. No. 915,039; Mar. 9; Sp. p. 2844; Gaz. vol. 140; p. 431.  
 Stovepipe. E. Lohs and. No. 927,253; July 6; Sp. p. 1143; Gaz. vol. 144; p. 186.  
 Stovepipe. F. Schmidt. No. 940,406; Nov. 16; Sp. p. 4376; Gaz. vol. 148; p. 732.  
 Stovepipe. W. W. Graham. No. 940,927; Nov. 23; Sp. p. 5484; Gaz. vol. 148; p. 930.  
 Stovepipe-anchor. J. Murchie. No. 943,037; Dec. 14; Sp. p. 2177; Gaz. vol. 149; p. 372.  
 Stovepipe attachment. C. E. Mathews. No. 940,542; Nov. 16; Sp. p. 4669; Gaz. vol. 148; p. 776.  
 Stovepipe-cleaner. F. B. Thayer. No. 919,395; Apr. 27; Sp. p. 5228; Gaz. vol. 141; p. 906.  
 Stovepipe-cleaner. G. J. Weyh. No. 934,491; Sept. 21; Sp. p. 3070; Gaz. vol. 146; p. 335.  
 Stovepipe-coupling. E. C. Ramsey. No. 919,213; Apr. 20; Sp. p. 4637; Gaz. vol. 141; p. 809.  
 Stovepipe-coupling. E. C. Ramsey. No. 933,350; Sept. 14; Sp. p. 1317; Gaz. vol. 146; p. 300.  
 Stovepipe-cutter. C. H. Hanshue. No. 936,450; Oct. 12; Sp. p. 1802; Gaz. vol. 147; p. 299.  
 Stovepipe device. T. J. Holden. No. 936,130; Oct. 5; Sp. p. 1120; Gaz. vol. 147; p. 170.  
 Stovepipe-elbow. D. Witt. No. 941,836; Nov. 30; Sp. p. 7466; Gaz. vol. 148; p. 1255.  
 Stovepipe-fastener. W. R. Phares. No. 923,441; June 1; Sp. p. 744; Gaz. vol. 143; p. 110.  
 Stovepipe-fastener. J. L. Ellis. No. 930,652; Aug. 10; Sp. p. 2120; Gaz. vol. 145; p. 370.  
 Stovepipe-holder. J. N. Queen. No. 931,086; Aug. 17; Sp. p. 3083; Gaz. vol. 145; p. 541.  
 Stovepipe-joint. J. T. Sappenfield. No. 925,033; June 15; Sp. p. 4158; Gaz. vol. 143; p. 707.  
 Stovepipe-joint. J. T. Sappenfield. No. 925,034; June 15; Sp. p. 4159; Gaz. vol. 143; p. 707.  
 Stovepipe-joints, Package of nested or knockdown. R. A. Metzger. No. 929,618; July 27; Sp. p. 6032; Gaz. vol. 144; p. 1054.  
 Stovepipe-locking device. A. W. Hoyer. No. 913,822; Mar. 2; Sp. p. 296; Gaz. vol. 140; p. 51.  
 Stovepipe-thimble and flue-stopper. D. G. Lilley. No. 914,596; Mar. 9; Sp. p. 1957; Gaz. vol. 140; p. 334.  
 Straight-edge or ruler. I. Lucas. No. 935,120; Sept. 28; Sp. p. 4329; Gaz. vol. 146; p. 772.  
 Straightening-machine. E. A. Lane. No. 928,672; July 20; Sp. p. 4101; Gaz. vol. 144; p. 715.  
 Strain-resisting mechanism. G. H. Forsythe. No. 923,040; May 25; Sp. p. 6063; Gaz. vol. 142; p. 1055.  
 Strainer. H. F. Fowles and J. A. Forsythe. No. 909,076; Jan. 5; Sp. p. 1314; Gaz. vol. 138; p. 211.



*Alphabetical list of inventions—Continued.*

- Strainer. W. H. Waid. No. 919,797; Apr. 27; Sp. p. 6059; Gaz. vol. 141; p. 1042.  
 Strainer. W. H. Heard. No. 923,651; June 1; Sp. p. 1199; Gaz. vol. 143; p. 184.  
 Strainer. W. T. Russell. No. 925,032; June 15; Sp. p. 4157; Gaz. vol. 143; p. 707.  
 Strainer. J. Levy. No. 926,704; June 29; Sp. p. 7489; Gaz. vol. 143; p. 1320.  
 Strainer. R. H. Carlisle. No. 931,564; Aug. 17; Sp. p. 4070; Gaz. vol. 145; p. 701.  
 Strainer. G. F. Grimm. No. 936,997; Oct. 12; Sp. p. 2892; Gaz. vol. 147; p. 482.  
 Strainer. W. S. Elliott. No. 937,676; Oct. 19; Sp. p. 4314; Gaz. vol. 147; p. 735.  
 Strainer. T. Richardson. No. 938,274; Oct. 26; Sp. p. 5591; Gaz. vol. 147; p. 956.  
 Strainer. M. C. White. No. 942,121; Dec. 7; Sp. p. 200; Gaz. vol. 149; p. 31.  
 Strainer, Bottle-. A. Tonini. No. 920,791; May 4; Sp. p. 1417; Gaz. vol. 142; p. 229.  
 Strainer for coffee-pots. J. E. Willetts. No. 938,099; Oct. 26; Sp. p. 5224; Gaz. vol. 147; p. 895.  
 Strainer for coffee and tea pots. M. H. Franzen. No. 917,281; Apr. 6; Sp. p. 664; Gaz. vol. 141; p. 113.  
 Strainer for lubricating systems. C. H. Worsey. No. 922,657; May 25; Sp. p. 5273; Gaz. vol. 142; p. 932.  
 Strainer for milk-cans. H. Edner. No. 921,525; May 11; Sp. p. 2939; Gaz. vol. 142; p. 505.  
 Strainer for sinks, bath-tubs, &c. S. E. Horner. No. 926,417; June 29; Sp. p. 6955; Gaz. vol. 143; p. 1225.  
 Strainer for teapots. A. Newman. No. 937,168; Oct. 19; Sp. p. 3266; Gaz. vol. 147; p. 569.  
 Strainer, Liquid-. A. Schwieger. No. 925,517; June 22; Sp. p. 5078; Gaz. vol. 143; p. 894.  
 Strainer, Liquid-. M. Arruebarrena. No. 932,842; Aug. 31; Sp. p. 6798; Gaz. vol. 145; p. 1166.  
 Strainer, Liquid-. F. L. Williams. No. 942,428; Dec. 7; Sp. p. 821; Gaz. vol. 149; p. 134.  
 Strainer or cooker, Vegetable. W. Leetten. No. 931,070; Aug. 17; Sp. p. 3054; Gaz. vol. 145; p. 535.  
 Strainer, Sink-. A. W. Andrews. No. 928,236; July 20; Sp. p. 3191; Gaz. vol. 144; p. 569.  
 Strainer stopper, Sink-. S. E. Horner. No. 927,047; July 6; Sp. p. 733; Gaz. vol. 144; p. 115.  
 Strainer-tube, Locked. W. H. McNutt. No. 929,973; Aug. 3; Sp. p. 740; Gaz. vol. 145; p. 118.  
 Strainer, Vegetable-. J. McDonald. No. 944,144; Dec. 21; Sp. p. 4537; Gaz. vol. 149; p. 779.  
 Straining apparatus, Continuous centrifugal. A. J. Ericsson. No. 939,993; Nov. 16; Sp. p. 3406; Gaz. vol. 148; p. 587.  
 Straining apparatus, Liquid-. F. Bailey and F. H. Jackson. No. 943,908; Dec. 21; Sp. p. 4036; Gaz. vol. 149; p. 699.  
 Straining, mashing, grating, and chopping machine. E. Hubert. No. 938,766; Nov. 2; Sp. p. 675; Gaz. vol. 148; p. 108.  
 Strands with viscose, and the article, Applying and treating. L. M. Chorier. No. 912,812; Feb. 16; Sp. p. 3739; Gaz. vol. 139; p. 658.  
 Strap: See Box-strap; Breast-strap; Bridle winker-strap; Car-strap; Elastic connecting-strap; Garment-supporting strap; Hand-strap; Mattress-strap; Race-strap; Shoe draw-strap; Trunk-strap; Vehicle safety-strap; Undertaker's lifting-strap.  
 Strap. S. F. Blackburn. No. 925,986; June 22; Sp. p. 6061; Gaz. vol. 143; p. 1048.  
 Strap-fastener, &c. W. H. Davidson. No. 918,829; Apr. 20; Sp. p. 3887; Gaz. vol. 141; p. 685.  
 Strap holder, Hitch-. W. W. Plowman. No. 919,947; Apr. 27; Sp. p. 6384; Gaz. vol. 141; p. 1091.  
 Strap-seal. S. Baruch and M. Dessauer. No. 936,852; Oct. 12; Sp. p. 2613; Gaz. vol. 147; p. 436.  
 Strapping-machine. W. M. Kidney. No. 913,397; Feb. 23; Sp. p. 4886; Gaz. vol. 139; p. 875.  
 Strata, such as muck, sand, &c. Device for sinking through soft. A. B. Dowell. No. 912,941; Feb. 16; Sp. p. 3954; Gaz. vol. 139; p. 696.  
 Straw and manure spreader. W. G. Detwiler and J. E. Firebaugh. No. 934,146; Sept. 14; Sp. p. 2413; Gaz. vol. 146; p. 396.  
 Straw-cutting machine feeder. W. T. Bond. No. 944,172; Dec. 21; Sp. p. 4595; Gaz. vol. 149; p. 788.  
 Straw-holder. T. S. and A. L. Lewis. No. 926,581; June 29; Sp. p. 7240; Gaz. vol. 143; p. 1280.  
 Straw of flax or other plants, Chemical process for the treatment of the. A. M. D. de Ballore. No. 921,502; May 11; Sp. p. 2891; Gaz. vol. 142; p. 497.  
 Straws, Dust-proof receptacle for tubular. J. Hurley. No. 943,879; Dec. 21; Sp. p. 3964; Gaz. vol. 149; p. 689.  
 Stream-motor. R. Wilson. No. 922,652; May 25; Sp. p. 5263; Gaz. vol. 142; p. 930.  
 Stream-motor. P. J. Hansen. No. 922,890; May 25; Sp. p. 5778; Gaz. vol. 142; p. 1008.  
 Street and road building, Composition for binding, surfacing, and resurfacing purposes in. J. H. Amies. No. 935,572; Sept. 28; Sp. p. 5242; Gaz. vol. 146; p. 920.  
 Street and road construction, Preparing mineral materials and the like for. J. H. Amies. No. 942,235; Dec. 7; Sp. p. 449; Gaz. vol. 149; p. 69.  
 Street-cleaning and conveying machine. B. Valiquet. No. 944,705; Dec. 28; Sp. p. 5759; Gaz. vol. 149; p. 997.  
 Street-cleaning apparatus. C. F. Speice. No. 908,620; Jan. 5; Sp. p. 398; Gaz. vol. 138; p. 64.  
 Street-cleaning machine. F. B. Dickason. No. 922,677; May 25; Sp. p. 5310; Gaz. vol. 142; p. 938.  
 Street-cleaning machine. J. E. Briggs. No. 926,723; July 6; Sp. p. 200; Gaz. vol. 144; p. 4.  
 Street-crossing. S. B. Minnich. No. 910,705; Jan. 26; Sp. p. 4657; Gaz. vol. 138; p. 846.  
 Street-indicating device. C. E. Greenfield. No. 938,478; Nov. 2; Sp. p. 53; Gaz. vol. 148; p. 11.  
 Street-indicator. A. P. Jordan. No. 930,186; Aug. 3; Sp. p. 1183; Gaz. vol. 145; p. 192.  
 Street-indicator and advertising device, Combined. J. H. Goodier. No. 940,963; Nov. 23; Sp. p. 5564; Gaz. vol. 148; p. 942.  
 Street-inlet and water-closet flush, Automatic, odorless, self-cleaning. J. Pratt. No. 931,481; Aug. 17; Sp. p. 3919; Gaz. vol. 145; p. 676.  
 Street pavement or roadway. A. E. Schutte. No. 912,898; Feb. 16; Sp. p. 3874; Gaz. vol. 139; p. 683.  
 Street-sprinkler. C. F. Bierbach. No. 944,253; Dec. 28; Sp. p. 4750; Gaz. vol. 149; p. 840.  
 Street-sweeper. O. Schumann. No. 910,321; Jan. 19; Sp. p. 3866; Gaz. vol. 138; p. 696.  
 Street-sweeper. F. A. Bishop. No. 913,460; Feb. 23; Sp. p. 5020; Gaz. vol. 139; p. 897.  
 Street-sweeper. G. Remnissner. No. 918,910; Apr. 20; Sp. p. 4068; Gaz. vol. 141; p. 713.  
 Street-sweeper. A. S. Emerson. No. 920,295; May 4; Sp. p. 438; Gaz. vol. 142; p. 67.  
 Street-sweeper. F. D. Rappee. No. 929,109; July 27; Sp. p. 4981; Gaz. vol. 144; p. 887.  
 Street-sweeper. S. Conrath. No. 930,269; Aug. 3; Sp. p. 1313; Gaz. vol. 145; p. 217.  
 Street-sweeper. E. W. Liberty and W. J. McElroy. No. 935,798; Oct. 5; Sp. p. 408; Gaz. vol. 147; p. 60.  
 Street-sweeper. M. J. Kane. No. 935,991; Oct. 5; Sp. p. 834; Gaz. vol. 147; p. 124.  
 Street-sweeper. M. F. Adkins. No. 938,361; Oct. 26; Sp. p. 5807; Gaz. vol. 147; p. 986.  
 Street-sweeper. J. F. Wurzer and J. G. Hartman. No. 941,838; Nov. 30; Sp. p. 7468; Gaz. vol. 148; p. 1255.  
 Street-sweeper. J. R. Pollock. No. 943,122; Dec. 14; Sp. p. 2367; Gaz. vol. 149; p. 402.  
 Street-sweeping apparatus. G. W. and C. W. Baker and R. McLennan. No. 911,196; Feb. 2; Sp. p. 339; Gaz. vol. 139; p. 59.  
 Street-sweeping machine. C. H. Butler. No. 909,865; Jan. 19; Sp. p. 2880; Gaz. vol. 138; p. 537.  
 Street-sweeping machine. J. Banser. No. 911,696; Feb. 9; Sp. p. 1343; Gaz. vol. 139; p. 250.  
 Street-sweeping machine. V. D. Carroll. No. 911,702; Feb. 9; Sp. p. 1353; Gaz. vol. 139; p. 252.  
 Street-sweeping machine. W. Seymour. No. 918,602; Apr. 20; Sp. p. 3347; Gaz. vol. 141; p. 608.  
 Street-sweeping machine. V. F. Pretorius. No. 926,709; June 29; Sp. p. 7495; Gaz. vol. 143; p. 1322.  
 Street-sweeping machine. J. Santin. No. 935,821; Oct. 5; Sp. p. 476; Gaz. vol. 147; p. 68.  
 Street-sweeping machine. B. Kern, Jr. No. 943,881; Dec. 21; Sp. p. 3967; Gaz. vol. 149; p. 689.  
 Street-sweeping vehicle. A. Verschuren. No. 932,195; Aug. 24; Sp. p. 5465; Gaz. vol. 145; p. 930.  
 Streets, roads, and other places, Machine for the formation of coverings on. J. E. Behmer. No. 910,636; Jan. 26; Sp. p. 4530; Gaz. vol. 138; p. 825.  
 Strength-testing apparatus. J. L. Perkins. No. 924,579; June 8; Sp. p. 3180; Gaz. vol. 143; p. 520.  
 Strength-testing machine. C. W. Putnam. No. 924,625; June 8; Sp. p. 3289; Gaz. vol. 143; p. 536.  
 Stress-indicator. W. P. Chapman. No. 924,427; June 8; Sp. p. 2877; Gaz. vol. 143; p. 470.  
 Stretcher. F. L. Goddard. No. 919,159; Apr. 20; Sp. p. 4535; Gaz. vol. 141; p. 793.  
 Stretcher. F. C. Rheubottom and R. B. Rayner. No. 935,056; Sept. 28; Sp. p. 4188; Gaz. vol. 146; p. 750.  
 Stretcher-frame. C. P. Freestate. No. 914,261; Mar. 2; Sp. p. 1293; Gaz. vol. 140; p. 201.  
 Stretcher-support. J. Linxweller. No. 932,479; Aug. 31; Sp. p. 6029; Gaz. vol. 145; p. 1046.  
 Striking-bag. A. J. Austin. No. 944,648; Dec. 28; Sp. p. 5639; Gaz. vol. 149; p. 978.  
 Striking-bag platform, Portable. F. G. Armitage. No. 923,928; June 8; Sp. p. 1836; Gaz. vol. 143; p. 306.  
 Stringed and wind instrument music-rack. A. T. Rowlands. No. 917,491; Apr. 6; Sp. p. 1047; Gaz. vol. 141; p. 183.  
 Stringed-instrument attachment, Picked-. L. A. Williams. No. 916,906; Mar. 30; Sp. p. 5561; Gaz. vol. 140; p. 1169.  
 Strip, Parallel. W. B. Rumbeck. No. 910,959; Jan. 26; Sp. p. 5150; Gaz. vol. 138; p. 928.  
 Strip-perforator. J. S. Bancroft and M. C. Indahl. No. 915,537; Mar. 16; Sp. p. 3588; Gaz. vol. 140; p. 670.  
 Strip-serving apparatus. E. L. Brownson. No. 913,614; Feb. 23; Sp. p. 5366; Gaz. vol. 139; p. 948.  
 Strip-serving device. E. L. Brownson. No. 919,280; Apr. 20; Sp. p. 4975; Gaz. vol. 141; p. 834.  
 Stopping device. J. Schnurr. No. 924,278; June 8; Sp. p. 2584; Gaz. vol. 143; p. 421.  
 Stopping-handle. J. C. Morgan. No. 928,140; July 13; Sp. p. 2960; Gaz. vol. 144; p. 506.  
 Stopping-machine. J. Lorenzen. No. 919,738; Apr. 27; Sp. p. 5953; Gaz. vol. 141; p. 1022.  
 Stopping-machine. J. Lorenzen. No. 943,311; Dec. 14; Sp. p. 2746; Gaz. vol. 149; p. 464.  
 Structural parts, Means for preserving. A. Knapen. No. 931,318; Aug. 17; Sp. p. 3599; Gaz. vol. 145; p. 621.  
 Stud. C. W. Noble. No. 917,478; Apr. 6; Sp. p. 1025; Gaz. vol. 141; p. 178.  
 Stud, Lacing-. A. F. Littlefield. No. 920,356; May 4; Sp. p. 543; Gaz. vol. 142; p. 86.

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- Stud, Metallic partition-. H. I. Jeffers. No. 927,050; July 6; Sp. p. 738; Gaz. vol. 144; p. 117.  
 Stud or button. A. Herman. No. 919,864; Apr. 27; Sp. p. 6239; Gaz. vol. 141; p. 1064.  
 Stud or button. E. L. Anderson. No. 928,622; July 20; Sp. p. 3996; Gaz. vol. 144; p. 697.  
 Stud or rivet. E. B. Stimpson. No. 940,083; Nov. 16; Sp. p. 3631; Gaz. vol. 148; p. 620.  
 Stud-pin and seat therefor. W. H. Fothergill. No. 909,575; Jan. 12; Sp. p. 2308; Gaz. vol. 138; p. 409.  
 Stud, Self-centering fixture-. J. L. Corey. No. 917,847; Apr. 13; Sp. p. 1773; Gaz. vol. 141; p. 325.  
 Stud, Separable. H. C. Ward. No. 931,822; Aug. 24; Sp. p. 4657; Gaz. vol. 145; p. 807.  
 Studs, Automatic machine for manufacturing lower parts of press-. A. Prym. No. 921,160; May 11; Sp. p. 2164; Gaz. vol. 142; p. 381.  
 Studs, Machine for covering. J. Lizotte. No. 917,627; Apr. 6; Sp. p. 1292; Gaz. vol. 141; p. 228.  
 Studs, pins, &c., Retaining device for. R. H. Low. No. 908,787; Jan. 5; Sp. p. 745; Gaz. vol. 138; p. 117.  
 Stud-setter, Automatically-opening. F. A. Errington. No. 927,028; July 6; Sp. p. 680; Gaz. vol. 144; p. 110.  
 Stud-wrench. T. Longdin. No. 909,101; Jan. 5; Sp. p. 1373; Gaz. vol. 138; p. 220.  
 Studding, Metallic. C. S. Mooney and J. Jantusek. No. 943,696; Dec. 21; Sp. p. 3595; Gaz. vol. 149; p. 625.  
 Stuffing-box. J. W. Walters. No. 909,263; Jan. 12; Sp. p. 1695; Gaz. vol. 138; p. 306.  
 Stuffing-box. S. E. Condon. No. 932,444; Feb. 9; Sp. p. 1535; Gaz. vol. 139; p. 286.  
 Stuffing-box. E. L. Mills. No. 916,573; Mar. 30; Sp. p. 5941; Gaz. vol. 140; p. 1065.  
 Stuffing-box. J. W. Ladd. No. 923,671; June 1; Sp. p. 1231; Gaz. vol. 143; p. 190.  
 Stuffing-box. G. Strance, R. S. Bull, and W. P. Norris. No. 933,400; Sept. 7; Sp. p. 825; Gaz. vol. 146; p. 128.  
 Stuffing-box gland. F. Keeler. No. 943,356; Dec. 14; Sp. p. 2851; Gaz. vol. 149; p. 479.  
 Stuffing-box, Safety. J. H. Keeter. No. 911,047; Feb. 2; Sp. p. 45; Gaz. vol. 139; p. 10.  
 Stuffing-boxes, Smoothing and truing ring for. A. H. Franke. No. 924,755; June 15; Sp. p. 3570; Gaz. vol. 143; p. 613.  
 Stuffing-machines, &c., Feeder for. P. F. Cox. No. 924,637; June 15; Sp. p. 3326; Gaz. vol. 143; p. 573.  
 Stump-burner. W. W. Pope. No. 932,743; Aug. 31; Sp. p. 6226; Gaz. vol. 145; p. 1078.  
 Stump-extractor. J. Bradley. No. 914,920; Mar. 9; Sp. p. 2637; Gaz. vol. 140; p. 442.  
 Stump-extractor. A. P. Bernin and E. J. Ware. No. 944,766; Dec. 28; Sp. p. 5905; Gaz. vol. 149; p. 1018.  
 Stump-puller. C. Pederson and T. Simmons. No. 916,191; Mar. 23; Sp. p. 5160; Gaz. vol. 140; p. 913.  
 Stump-puller. S. Chambers. No. 932,444; Aug. 31; Sp. p. 5939; Gaz. vol. 145; p. 1035.  
 Stump-pulling and stone-lifting device. O. F. Nelson. No. 910,567; Jan. 26; Sp. p. 4383; Gaz. vol. 138; p. 803.  
 Stump-pulling machine. J. Ducrest. No. 929,661; Aug. 3; Sp. p. 33; Gaz. vol. 145; p. 8.  
 Submarine operations, Apparatus for. P. E. Galoffre. No. 935,485; Sept. 28; Sp. p. 5026; Gaz. vol. 146; p. 888.  
 Submergible motor. A. C. Durdin, Jr. No. 931,008; Aug. 10; Sp. p. 2891; Gaz. vol. 145; p. 486.  
 Suction apparatus. M. Lebenberg. No. 943,426; Dec. 14; Sp. p. 2977; Gaz. vol. 149; p. 502.  
 Suction apparatus, Hydraulic air and other gas. W. J. Frame. No. 924,335; June 8; Sp. p. 2708; Gaz. vol. 143; p. 441.  
 Suction-box. J. Whisner. No. 920,100; Apr. 27; Sp. p. 6723; Gaz. vol. 141; p. 1141.  
 Suction-cleaner. O. H. Mohr. No. 913,966; Mar. 2; Sp. p. 651; Gaz. vol. 140; p. 102.  
 Sugar-bowl. S. Juel. No. 911,995; Feb. 9; Sp. p. 1988; Gaz. vol. 139; p. 348.  
 Sugar-cane and similar substances, Treating. G. D. Burton. No. 909,987; Jan. 19; Sp. p. 3141; Gaz. vol. 138; p. 580.  
 Sugar-cane mill. J. and C. McNeil. No. 915,036; Mar. 9; Sp. p. 2836; Gaz. vol. 140; p. 480.  
 Sugar from whey, Extracting milk-. J. A. R. Nilsson and S. A. Hellqvist. No. 938,017; Oct. 26; Sp. p. 5048; Gaz. vol. 147; p. 868.  
 Sugar-holder. J. F. Martier. No. 932,623; Aug. 31; Sp. p. 6351; Gaz. vol. 145; p. 1096.  
 Sugar, Making. G. W. McMullen. No. 913,758; Mar. 2; Sp. p. 175; Gaz. vol. 140; p. 29.  
 Sugar, Making. S. von Grabski. No. 934,965; Sept. 21; Sp. p. 3997; Gaz. vol. 146; p. 694.  
 Sugar, Making. C. P. Stewart. No. 935,942; Oct. 5; Sp. p. 730; Gaz. vol. 147; p. 108.  
 Sugar or candy or other substances of a similar plastic nature, Apparatus for pulling. E. W. Barratt. No. 929,374; July 27; Sp. p. 5573; Gaz. vol. 144; p. 977.  
 Sugar, Producing. M. Altolaguirre and J. Zubillaga. No. 910,037; Jan. 19; Sp. p. 3233; Gaz. vol. 138; p. 596.  
 Sugar, Producing from ligno-cellulose fermentable. M. F. Ewen and G. H. Tomlinson. No. 938,308; Oct. 26; Sp. p. 5682; Gaz. vol. 147; p. 967.  
 Sugar, Producing milk-. A. A. Dunham. No. 931,584; Aug. 17; Sp. p. 4106; Gaz. vol. 145; p. 707.  
 Sugar-separator. A. Maassen. No. 934,000; Sept. 14; Sp. p. 2104; Gaz. vol. 146; p. 347.  
 Suit-case. B. F. Becker. No. 943,333; Dec. 14; Sp. p. 2795; Gaz. vol. 149; p. 471.  
 Suit-case and the like. E. Ludescher. No. 943,753; Dec. 21; Sp. p. 3712; Gaz. vol. 149; p. 646.  
 Suit-case and valise, Combination. C. Billburg and S. Chandler. No. 930,032; Aug. 3; Sp. p. 861; Gaz. vol. 145; p. 138.  
 Suit-case attachment. T. Cosgrove. No. 922,567; May 25; Sp. p. 5089; Gaz. vol. 142; p. 903.  
 Suit-case frame. A. Peterson. No. 910,849; Jan. 26; Sp. p. 4941; Gaz. vol. 138; p. 892.  
 Suit-case handle-connecting device. G. W. Wood. No. 928,619; July 20; Sp. p. 3990; Gaz. vol. 144; p. 696.  
 Suit case or box, One-piece folding. J. Regenstein. No. 922,334; May 18; Sp. p. 4588; Gaz. vol. 142; p. 797.  
 Suit, Combination-. F. J. Pfaffner. No. 932,640; Aug. 31; Sp. p. 6385; Gaz. vol. 145; p. 1101.  
 Suit, Girl's combination. S. H. Burket. No. 933,236; Sept. 7; Sp. p. 584; Gaz. vol. 146; p. 90.  
 Suit, Lady's rain-. D. Hurley. No. 927,542; July 13; Sp. p. 1723; Gaz. vol. 144; p. 307.  
 Sulfates, Making metal. O. Meurer. No. 920,601; May 4; Sp. p. 1025; Gaz. vol. 142; p. 167.  
 Sulfocyanids, Manufacture of. K. M. Chance. No. 922,564; May 25; Sp. p. 5084; Gaz. vol. 142; p. 902.  
 Sulfur-burner. F. H. Grimm. No. 924,980; June 15; Sp. p. 4046; Gaz. vol. 143; p. 689.  
 Sulfur-burner. G. A. Stebbins. No. 934,700; Sept. 21; Sp. p. 3477; Gaz. vol. 146; p. 605.  
 Sulfur-burner, Agitating. J. C. Wise. (Reissue). No. 12,921; Feb. 16; Sp. p. 4054; Gaz. vol. 139; p. 712.  
 Sulfur dioxide, Making. C. W. Lyman. No. 911,735; Feb. 9; Sp. p. 1414; Gaz. vol. 139; p. 263.  
 Sulfur, &c., from furnace-gases, Obtaining. F. R. Carpenter. No. 925,751; June 22; Sp. p. 5561; Gaz. vol. 143; p. 970.  
 Sulfur from sulfur-bearing gases, Recovering. P. S. Smith. No. 912,743; Feb. 16; Sp. p. 3597; Gaz. vol. 139; p. 635.  
 Sulfur from sulfur-bearing gases, Recovering. P. S. Smith. No. 912,744; Feb. 16; Sp. p. 3601; Gaz. vol. 139; p. 635.  
 Sulfur, Recovering. W. Field and A. Jahl. No. 927,342; July 6; Sp. p. 1286; Gaz. vol. 144; p. 213.  
 Sulfur trioxide, Apparatus for making. G. Eschellmann and A. Harmuth. No. 937,148; Oct. 19; Sp. p. 3216; Gaz. vol. 147; p. 563.  
 Sulfur trioxide, Making. G. Eschellmann and A. Harmuth. No. 937,147; Oct. 19; Sp. p. 3215; Gaz. vol. 147; p. 562.  
 Sulky. T. Wilson. No. 915,008; Mar. 9; Sp. p. 2777; Gaz. vol. 140; p. 470.  
 Sullage from molten metals, Treating and utilizing. W. H. Carpenter. No. 913,874; Mar. 2; Sp. p. 436; Gaz. vol. 140; p. 71.  
 Sunbonnet. N. H. Cuddeback. No. 932,968; Aug. 31; Sp. p. 7027; Gaz. vol. 145; p. 1208.  
 Sunshade for hats, &c., Collapsible. C. M. Baum. No. 913,937; Mar. 2; Sp. p. 584; Gaz. vol. 140; p. 93.  
 Sunshade-holder. E. H. Atkinson. No. 931,371; Aug. 17; Sp. p. 3704; Gaz. vol. 145; p. 640.  
 Superheat-gage. T. M. Lothrop and G. D. Bradshaw. No. 943,260; Dec. 14; Sp. p. 2639; Gaz. vol. 149; p. 447.  
 Superheater. S. Munson. No. 916,180; Mar. 23; Sp. p. 5143; Gaz. vol. 140; p. 910.  
 Superheater. W. Schmidt. No. 917,668; Apr. 6; Sp. p. 1367; Gaz. vol. 141; p. 241.  
 Superheater. S. M. Vanclain. No. 922,366; May 18; Sp. p. 4644; Gaz. vol. 142; p. 807.  
 Superheater. H. W. Jacobs. No. 934,729; Sept. 21; Sp. p. 3530; Gaz. vol. 146; p. 615.  
 Superheater. F. D. Potter. No. 943,606; Dec. 14; Sp. p. 3354; Gaz. vol. 149; p. 566.  
 Superheater. H. Göhrig. No. 944,428; Dec. 28; Sp. p. 5141; Gaz. vol. 149; p. 902.  
 Superheater-boiler. J. C. Parker. No. 908,882; Jan. 5; Sp. p. 933; Gaz. vol. 138; p. 148.  
 Superheater-boiler. J. E. Bell. No. 908,939; Jan. 5; Sp. p. 1037; Gaz. vol. 138; p. 166.  
 Superheater-boiler. J. E. Bell. No. 925,076; June 15; Sp. p. 4231; Gaz. vol. 143; p. 721.  
 Superheater-boiler. E. H. Wells. No. 938,449; Oct. 26; Sp. p. 5995; Gaz. vol. 147; p. 1016.  
 Superheater for use in connection with vulcanizers and other apparatus. J. Berliner. No. 939,956; Nov. 9; Sp. p. 3311; Gaz. vol. 148; p. 546.  
 Superheater, Steam-. E. H. Foster and J. Primrose. No. 938,568; Nov. 2; Sp. p. 290; Gaz. vol. 148; p. 42.  
 Supplemental seat. A. Reineke. No. 942,793; Dec. 7; Sp. p. 1565; Gaz. vol. 149; p. 258.  
 Supply and waste apparatus, Combination. W. Bunting, Jr. No. 922,253; May 18; Sp. p. 4445; Gaz. vol. 142; p. 753.  
 Support, Adjustable. J. A. Walden. No. 919,405; Apr. 27; Sp. p. 5246; Gaz. vol. 141; p. 909.  
 Support and hanger, Curtain. W. Luft. No. 909,004; Jan. 5; Sp. p. 1179; Gaz. vol. 138; p. 188.  
 Support and insulator. E. F. Lindsay. No. 942,086; Dec. 7; Sp. p. 109; Gaz. vol. 149; p. 18.  
 Support, gage, and marking device, Combined. W. H. Sitton. No. 944,919; Dec. 28; Sp. p. 6223; Gaz. vol. 149; p. 1070.  
 Support or bracket. J. H. Cook. No. 943,237; Dec. 14; Sp. p. 2593; Gaz. vol. 149; p. 439.  
 Supports, Adjusting device for. P. Collidge. No. 942,545; Dec. 7; Sp. p. 1084; Gaz. vol. 149; p. 176.  
 Supports, frames, &c., Means for securing flexible material to. J. C. Fulton. No. 917,726; Apr. 6; Sp. p. 1490; Gaz. vol. 141; p. 260.  
 Supporter. H. Bierhoff. No. 930,031; Aug. 3; Sp. p. 860; Gaz. vol. 145; p. 138.



- Supporting device. H. Bagaason. No. 926,840; July 6; Sp. p. 279; Gaz. vol. 144; p. 45.  
 Supporting device, Extensible. E. A. Clark. No. 909,990; Jan. 19; Sp. p. 3147; Gaz. vol. 138; p. 581.  
 Supporting frame, Mattress-. G. W. Bent. No. 915,064; Mar. 16; Sp. p. 2886; Gaz. vol. 140; p. 515.  
 Surface finish. P. Neymann. No. 911,606; Feb. 9; Sp. p. 1139; Gaz. vol. 139; p. 220.  
 Surface-gage for parallel lining. C. O. Dost. No. 943,010; Dec. 14; Sp. p. 2116; Gaz. vol. 149; p. 363.  
 Surface-indicator. W. A. James. No. 917,444; Apr. 6; Sp. p. 965; Gaz. vol. 141; p. 168.  
 Surface-indicator. F. Brink. No. 928,492; July 20; Sp. p. 3723; Gaz. vol. 144; p. 655.  
 Surfaces, Treating. J. Spelta. No. 911,171; Feb. 2; Sp. p. 292; Gaz. vol. 139; p. 51.  
 Surfacing and polishing machine. J. H. Prugh. No. 928,154; July 13; Sp. p. 2985; Gaz. vol. 144; p. 511.  
 Surfacing-machine. H. Edlund. No. 915,752; Mar. 23; Sp. p. 4347; Gaz. vol. 140; p. 773.  
 Surfacing-machine. A. H. Whitley. No. 939,363; Nov. 9; Sp. p. 2024; Gaz. vol. 148; p. 342.  
 Surfacing-machine. F. R. Allen. No. 939,373; Nov. 9; Sp. p. 2072; Gaz. vol. 148; p. 345.  
 Surfacing-machine, Pneumatic. G. L. Badger. No. 940,297; Nov. 16; Sp. p. 4096; Gaz. vol. 148; p. 694.  
 Surfacing-roll. F. R. Allen. No. 933,946; Sept. 14; Sp. p. 2003; Gaz. vol. 146; p. 330.  
 Surfacing-tool. C. W. Thompson. No. 944,523; Dec. 28; Sp. p. 5375; Gaz. vol. 149; p. 936.  
 Surgeon's glove. H. W. Warren. No. 919,406; Apr. 27; Sp. p. 5247; Gaz. vol. 141; p. 909.  
 Surgical appliance. H. Tunnessen. No. 934,240; Sept. 14; Sp. p. 2585; Gaz. vol. 146; p. 428.  
 Surgical appliance and forming the same. A. M. Cordley. No. 920,112; May 4; Sp. p. 36; Gaz. vol. 142; p. 5.  
 Surgical applicator. E. H. Eastman. No. 940,519; Nov. 16; Sp. p. 4612; Gaz. vol. 148; p. 769.  
 Surgical bandage. J. Nord and N. T. Hillen. No. 933,916; Sept. 14; Sp. p. 1952; Gaz. vol. 146; p. 321.  
 Surgical device. C. E. Eckrode. No. 923,118; May 25; Sp. p. 6233; Gaz. vol. 132; p. 1080.  
 Surgical draining apparatus. A. J. A. Hamilton. No. 920,459; May 4; Sp. p. 744; Gaz. vol. 142; p. 119.  
 Surgical forceps. E. Moraweck. No. 943,263; Dec. 14; Sp. p. 2646; Gaz. vol. 149; p. 448.  
 Surgical head-holder. S. M. Langworthy. No. 923,862; June 8; Sp. p. 1716; Gaz. vol. 143; p. 285.  
 Surgical instrument. B. S. Stephenson. No. 911,627; Feb. 9; Sp. p. 1195; Gaz. vol. 139; p. 226.  
 Surgical instrument. W. A. Whitlock. No. 928,011; July 13; Sp. p. 2716; Gaz. vol. 144; p. 463.  
 Surgical instrument. R. L. Combs. No. 929,833; Aug. 3; Sp. p. 431; Gaz. vol. 145; p. 72.  
 Surgical instrument. J. W. Kolb. No. 939,034; Nov. 2; Sp. p. 1261; Gaz. vol. 148; p. 202.  
 Surgical instrument. J. W. Kolb. No. 939,035; Nov. 2; Sp. p. 1262; Gaz. vol. 148; p. 202.  
 Surgical instruments, Holder for. T. S. Walling. No. 934,486; Sept. 21; Sp. p. 3063; Gaz. vol. 146; p. 533.  
 Surgical knife. E. Hüttmann. No. 931,612; Aug. 17; Sp. p. 4166; Gaz. vol. 145; p. 715.  
 Surgical ligatures, Manufacture of. A. W. Clark. No. 923,768; June 1; Sp. p. 1442; Gaz. vol. 143; p. 224.  
 Surgical needle. C. A. Drake and S. W. Dodd. No. 919,138; Apr. 20; Sp. p. 4502; Gaz. vol. 141; p. 786.  
 Surgical-needle holder. C. O. Gause. No. 919,152; Apr. 20; Sp. p. 4524; Gaz. vol. 141; p. 790.  
 Surgical splints, Material for. S. C. Sims. No. 937,478; Oct. 19; Sp. p. 3946; Gaz. vol. 147; p. 670.  
 Surgical stocking or casing. F. W. Smith. No. 932,066; Aug. 24; Sp. p. 5202; Gaz. vol. 145; p. 888.  
 Surgical table. J. O. Hunter. No. 923,656; June 1; Sp. p. 1207; Gaz. vol. 143; p. 186.  
 Surveying instrument. W. H. Whitney. No. 916,238; Mar. 23; Sp. p. 5256; Gaz. vol. 140; p. 930.  
 Surveying instrument. G. N. Saegmuller. No. 917,800; Apr. 13; Sp. p. 1679; Gaz. vol. 141; p. 311.  
 Surveying-instrument lateral adjuster. W. A. Berger. No. 918,617; Apr. 20; Sp. p. 3863; Gaz. vol. 141; p. 682.  
 Surveying or leveling instrument. W. Nugent. No. 919,934; Apr. 27; Sp. p. 6363; Gaz. vol. 141; p. 1088.  
 Surveyor's target. G. T. Stephenson. No. 912,069; Feb. 23; Sp. p. 4224; Gaz. vol. 139; p. 764.  
 Suspender-check. F. B. Hawes. No. 939,687; Nov. 9; Sp. p. 2741; Gaz. vol. 148; p. 452.  
 Suspenders. A. F. Motsch. No. 911,743; Feb. 9; Sp. p. 1424; Gaz. vol. 139; p. 265.  
 Suspenders. A. Oppenheim. No. 911,903; Feb. 9; Sp. p. 1710; Gaz. vol. 139; p. 317.  
 Suspenders. W. D. Corder. No. 914,021; Mar. 2; Sp. p. 805; Gaz. vol. 140; p. 123.  
 Suspenders. W. Freeman. No. 914,404; Mar. 9; Sp. p. 1606; Gaz. vol. 140; p. 273.  
 Suspenders. W. Freeman. No. 915,089; Mar. 16; Sp. p. 2948; Gaz. vol. 140; p. 524.  
 Suspenders. J. Weis. No. 928,722; July 20; Sp. p. 4192; Gaz. vol. 144; p. 730.  
 Suspenders. G. M. Edgerton. No. 939,898; Nov. 9; Sp. p. 3181; Gaz. vol. 148; p. 525.  
 Suspenders. S. S. Kornreich. No. 943,976; Dec. 21; Sp. p. 4178; Gaz. vol. 149; p. 723.  
 Suspenders cast-off. W. B. Murphy. No. 912,251; Feb. 9; Sp. p. 2484; Gaz. vol. 139; p. 428.  
 Suspending device, Portable. C. F. Redman. No. 939,318; Nov. 9; Sp. p. 1919; Gaz. vol. 148; p. 327.  
 Suspension-hook. J. B. McIntire. No. 908,602; Jan. 5; Sp. p. 362; Gaz. vol. 138; p. 58.  
 Suspension of high-tension lines. H. W. Buck and E. M. Hewlett. No. 925,561; June 22; Sp. p. 5153; Gaz. vol. 143; p. 908.  
 Suspensory. E. A. Schmertz. No. 909,948; Jan. 19; Sp. p. 3057; Gaz. vol. 138; p. 566.  
 Suspensory. G. C. Johnson. No. 919,875; Apr. 27; Sp. p. 6262; Gaz. vol. 141; p. 1068.  
 Suspensory sack or pouch. H. C. Shaw. No. 913,855; Mar. 2; Sp. p. 373; Gaz. vol. 140; p. 63.  
 Swaging-tool. R. Schuebel. No. 933,588; Sept. 7; Sp. p. 1277; Gaz. vol. 146; p. 189.  
 Swarm-catcher. D. I. Combs. No. 916,108; Mar. 23; Sp. p. 5006; Gaz. vol. 140; p. 887.  
 Sweat-band. E. M. Johnson. No. 917,873; Apr. 13; Sp. p. 1836; Gaz. vol. 141; p. 335.  
 Sweep-rake. S. F. Martin. No. 927,740; July 13; Sp. p. 2155; Gaz. vol. 144; p. 373.  
 Sweep-rake. J. W. Brown and E. J. Keithly. No. 931,675; Aug. 17; Sp. p. 4298; Gaz. vol. 145; p. 735.  
 Sweep-stock. J. Stone. No. 940,905; Nov. 23; Sp. p. 5441; Gaz. vol. 148; p. 922.  
 Sweeper. J. F. Stevens. No. 920,209; May 4; Sp. p. 239; Gaz. vol. 142; p. 38.  
 Sweeper, Pneumatic. W. P. Leister. No. 915,618; Mar. 16; Sp. p. 4032; Gaz. vol. 140; p. 696.  
 Sweeper, Vacuum-. E. E. Moorhead. No. 927,668; July 13; Sp. p. 2018; Gaz. vol. 144; p. 351.  
 Sweeper, Vacuum-. F. J. Matchette and C. Monkos. No. 936,465; Oct. 12; Sp. p. 1828; Gaz. vol. 147; p. 304.  
 Sweeping apparatus. J. Cable. No. 941,494; Nov. 30; Sp. p. 6726; Gaz. vol. 148; p. 1140.  
 Sweeping compound. F. D. Wolfram and E. Klausman. No. 939,369; Nov. 9; Sp. p. 2039; Gaz. vol. 148; p. 344.  
 Sweeping-machine. J. O. Johnson. No. 928,456; July 20; Sp. p. 3658; Gaz. vol. 144; p. 644.  
 Sweeping-machine. B. Nathan and G. Heuser. No. 942,970; Dec. 14; Sp. p. 2617; Gaz. vol. 149; p. 349.  
 Sweeping-machine, Cremating. A. S. Emerson. No. 931,741; Aug. 24; Sp. p. 4485; Gaz. vol. 145; p. 781.  
 Swill-can. M. Haney. No. 926,325; June 29; Sp. p. 6793; Gaz. vol. 143; p. 1195.  
 Swimming and life-saving apparatus. L. E. Clawson. No. 923,407; June 1; Sp. p. 672; Gaz. vol. 143; p. 98.  
 Swimming appliance. W. A. Glazier. No. 941,244; Nov. 23; Sp. p. 6178; Gaz. vol. 148; p. 1036.  
 Swimming-suit. F. B. Maslen. No. 930,303; Aug. 3; Sp. p. 1373; Gaz. vol. 145; p. 228.  
 Swing. W. Johnson. No. 909,906; Jan. 19; Sp. p. 2977; Gaz. vol. 138; p. 552.  
 Swing. G. Dittmar. No. 910,994; Jan. 26; Sp. p. 5211; Gaz. vol. 138; p. 939.  
 Swing. T. D. Montague. No. 911,426; Feb. 2; Sp. p. 780; Gaz. vol. 139; p. 135.  
 Swing. C. W. Ift. No. 914,143; Mar. 2; Sp. p. 1044; Gaz. vol. 140; p. 165.  
 Swing. R. O. Neville. No. 920,379; May 4; Sp. p. 593; Gaz. vol. 142; p. 94.  
 Swing. W. Johnson. No. 923,974; June 8; Sp. p. 1933; Gaz. vol. 143; p. 322.  
 Swing. G. W. Schilling. No. 936,818; Oct. 12; Sp. p. 2536; Gaz. vol. 147; p. 424.  
 Swing. E. V. Lewis. No. 941,081; Nov. 23; Sp. p. 5816; Gaz. vol. 148; p. 981.  
 Swing attachment. M. R. Grant. No. 922,886; May 25; Sp. p. 5771; Gaz. vol. 142; p. 1006.  
 Swing-gate. G. I. Kendrick and J. Carroll. No. 928,387; July 20; Sp. p. 3518; Gaz. vol. 144; p. 622.  
 Swing, Lawn-. J. C. McVey. No. 908,689; Jan. 5; Sp. p. 548; Gaz. vol. 138; p. 85.  
 Swing-post and releasing-iron. A. E. Rosenberger. No. 929,499; July 27; Sp. p. 5784; Gaz. vol. 144; p. 1015.  
 Swing, Scoot-. E. K. Hood. No. 913,642; Feb. 23; Sp. p. 5442; Gaz. vol. 139; p. 958.  
 Swing-support. T. A. McPherson and J. E. Gamble. No. 921,441; May 11; Sp. p. 2778; Gaz. vol. 142; p. 438.  
 Swinging chair. W. Gerlach. No. 929,207; July 27; Sp. p. 5187; Gaz. vol. 144; p. 919.  
 Swingletree. W. E. Forwood. No. 918,840; Apr. 20; Sp. p. 3907; Gaz. vol. 141; p. 689.  
 Swingletree. M. M. Wheeler. No. 925,735; June 22; Sp. p. 5535; Gaz. vol. 143; p. 965.  
 Swingletree. C. V. Anthenat. No. 930,118; Aug. 3; Sp. p. 1049; Gaz. vol. 145; p. 168.  
 Swingletree. G. F. Thompson. No. 944,114; Dec. 21; Sp. p. 4478; Gaz. vol. 149; p. 769.  
 Swingletree attachment. W. A. Koch. No. 934,189; Sept. 14; Sp. p. 2484; Gaz. vol. 146; p. 410.  
 Swingletree-clip. S. Rogers. No. 917,899; Apr. 13; Sp. p. 1894; Gaz. vol. 141; p. 344.  
 Swingletree-guard. T. L. Harris. No. 908,666; Jan. 5; Sp. p. 507; Gaz. vol. 138; p. 79.  
 Swingletree safety-clip. E. Graham. No. 940,388; Nov. 16; Sp. p. 4339; Gaz. vol. 148; p. 726.  
 Swingletree safety-socket. W. G. Graham. No. 921,692; May 18; Sp. p. 3304; Gaz. vol. 142; p. 588.

*Alphabetical list of inventions—Continued.*

- Switch: See Automatic switch; Automatic time-switch; Bell-switch; Car-switch; Centrifugal switch; Circuit-controlling switch; Control-switch; Controlling-switch; Derailing-switch; Double-acting switch; Electric switch; Electric-circuit switch; Electric igniter-switch; Electric time-switch; Electrical switch; Electrically-operated switch; Electrolier-switch; Electromagnetic switch; Interlocking switch; Intermittent line-switch; Key-socket switch; Knife-switch; Lamp-switch; Lamp-socket switch; Lever-controlled switch; Lock-switch; Multiple-pendant switch; Oil-switch; Pendant switch; Pneumatic-tube switch; Push-button switch; Railway-switch; Railway electric switch; Railway frog and switch; Reversing-switch; Safety-switch; Safety locking-switch; Snap-switch; Solenoid-switch; Spring-switch; Step-switch; Tank-float-controlled switch; Time-switch; Tongue-switch; Train-switch; Tramway-switch; Trolley-switch; Trolley-wire switch; Unit-switch; Wall-switch; Water-switch.
- Switch. R. W. Borchert. No. 909,742; Jan. 12; Sp. p. 2644; Gaz. vol. 138; p. 467.
- Switch. A. L. Vissat. No. 912,049; Feb. 9; Sp. p. 2115; Gaz. vol. 139; p. 365.
- Switch. B. F. Nickerson. No. 913,037; Feb. 23; Sp. p. 4148; Gaz. vol. 139; p. 753.
- Switch. C. D. Rolfe and C. F. Fox. No. 914,515; Mar. 9; Sp. p. 1814; Gaz. vol. 140; p. 310.
- Switch. W. C. Dunn. No. 917,564; Apr. 6; Sp. p. 1177; Gaz. vol. 141; p. 205.
- Switch. G. W. Hart. No. 917,760; Apr. 13; Sp. p. 1584; Gaz. vol. 141; p. 298.
- Switch. L. H. Moulthrop. No. 918,353; Apr. 13; Sp. p. 2822; Gaz. vol. 141; p. 499.
- Switch. G. Gaglio and L. Villani. No. 918,434; Apr. 13; Sp. p. 2986; Gaz. vol. 141; p. 525.
- Switch. A. E. Squyers. No. 919,261; Apr. 20; Sp. p. 4919; Gaz. vol. 141; p. 825.
- Switch. O. J. Wyler and D. C. Reidy. No. 921,051; May 11; Sp. p. 1942; Gaz. vol. 142; p. 345.
- Switch. L. Quattebaum. No. 925,225; June 15; Sp. p. 4527; Gaz. vol. 143; p. 772.
- Switch. G. W. Hart. No. 926,001; June 22; Sp. p. 6087; Gaz. vol. 143; p. 1052.
- Switch. W. J. Clark. No. 927,115; July 6; Sp. p. 874; Gaz. vol. 144; p. 140.
- Switch. H. F. Roach. No. 929,788; Aug. 3; Sp. p. 329; Gaz. vol. 145; p. 56.
- Switch. F. McKnight. No. 933,100; Sept. 7; Sp. p. 134; Gaz. vol. 146; p. 22.
- Switch. O. P. Noism and C. J. Lindewald. No. 934,340; Sept. 14; Sp. p. 2768; Gaz. vol. 146; p. 460.
- Switch. C. Carson. No. 936,601; Oct. 12; Sp. p. 2111; Gaz. vol. 147; p. 350.
- Switch. H. N. Motsinger. No. 937,709; Oct. 19; Sp. p. 4395; Gaz. vol. 147; p. 746.
- Switch. A. G. Rhodes. No. 938,336; Oct. 26; Sp. p. 5739; Gaz. vol. 147; p. 977.
- Switch. A. L. Vissat. No. 940,566; Nov. 16; Sp. p. 4713; Gaz. vol. 148; p. 785.
- Switch. L. H. Moulthrop. No. 940,645; Nov. 16; Sp. p. 4873; Gaz. vol. 148; p. 811.
- Switch and blow-out, Combination. W. C. Hafemeister. No. 910,811; Nov. 16; Sp. p. 4142; Gaz. vol. 148; p. 699.
- Switch and cut-out, Combined. H. R. Sargent. No. 919,473; Apr. 27; Sp. p. 5418; Gaz. vol. 141; p. 933.
- Switch and detector-bar throwing mechanism. C. R. Keeran. No. 925,345; June 15; Sp. p. 4729; Gaz. vol. 143; p. 807.
- Switch and fuse-plug, Combined. F. Mackintosh. No. 940,174; Nov. 16; Sp. p. 3833; Gaz. vol. 148; p. 650.
- Switch and signal, Combined. P. Kyle and C. Long. No. 920,348; May 4; Sp. p. 524; Gaz. vol. 142; p. 83.
- Switch and signal operating lines, Multiple-unit deflecting-bar stand for. W. E. Foster. No. 911,003; Jan. 26; Sp. p. 5230; Gaz. vol. 138; p. 942.
- Switch and stand for pressing-irons, Automatic. F. E. Emery. No. 913,480; Feb. 23; Sp. p. 5050; Gaz. vol. 139; p. 902.
- Switch and stand for pressing-irons, Automatic electromagnetic. F. E. Emery. No. 913,481; Feb. 23; Sp. p. 5053; Gaz. vol. 139; p. 903.
- Switch construction. H. W. Cheney. No. 917,542; Apr. 6; Sp. p. 1142; Gaz. vol. 141; p. 199.
- Switch contact device. J. A. York. No. 931,911; Aug. 24; Sp. p. 4874; Gaz. vol. 145; p. 835.
- Switch-frog. J. W. Walls. No. 909,351; Jan. 12; Sp. p. 1865; Gaz. vol. 138; p. 334.
- Switch-handle. C. Schuster. No. 943,124; Dec. 14; Sp. p. 2370; Gaz. vol. 149; p. 402.
- Switch handle, Electric. C. D. Platt. No. 928,152; July 13; Sp. p. 2980; Gaz. vol. 144; p. 510.
- Switch handle, Electric. J. G. Peterson. No. 941,534; Nov. 30; Sp. p. 6806; Gaz. vol. 148; p. 1153.
- Switch-hook-controlling device. M. M. Kahn. No. 932,557; Aug. 31; Sp. p. 6190; Gaz. vol. 145; p. 1073.
- Switch-indicator. C. A. Clark. No. 934,421; Sept. 14; Sp. p. 2928; Gaz. vol. 146; p. 489.
- Switch-indicator. C. A. Clark. No. 943,914; Dec. 21; Sp. p. 4053; Gaz. vol. 149; p. 702.
- Switch-key. N. H. Holland. No. 931,202; Aug. 17; Sp. p. 3341; Gaz. vol. 145; p. 580.
- Switch-keys, Bank of locking. E. R. Corwin and C. A. Bals. No. 941,763; Nov. 30; Sp. p. 7300; Gaz. vol. 148; p. 1230.
- Switch-lever lock. A. A. Strom. No. 934,853; Sept. 21; Sp. p. 3780; Gaz. vol. 146; p. 655.
- Switch-lock. H. M. Rice. No. 910,533; Jan. 26; Sp. p. 4417; Gaz. vol. 138; p. 808.
- Switch-lock. T. Lyckett and C. D. Houseman. No. 914,294; Mar. 2; Sp. p. 1362; Gaz. vol. 140; p. 211.
- Switch-lock, Automatic. C. E. Duffie. No. 908,979; Jan. 5; Sp. p. 1139; Gaz. vol. 138; p. 180.
- Switch lock, Railway. J. O. Hale. No. 924,984; June 15; Sp. p. 4054; Gaz. vol. 143; p. 690.
- Switch-lock, Safety. A. Haddock and A. Schmitt. No. 935,972; Oct. 5; Sp. p. 792; Gaz. vol. 147; p. 118.
- Switch-locking mechanism, Automatic. H. F. Roach. No. 926,211; June 29; Sp. p. 6555; Gaz. vol. 143; p. 1159.
- Switch mechanism. L. B. Gamble. No. 917,284; Apr. 6; Sp. p. 664; Gaz. vol. 141; p. 114.
- Switch mechanism. F. F. Young. No. 930,018; Aug. 3; Sp. p. 834; Gaz. vol. 145; p. 134.
- Switch mechanism. G. W. Fisher and F. Hoyland, Jr. No. 930,370; Aug. 10; Sp. p. 1514; Gaz. vol. 145; p. 275.
- Switch mechanism and actuating means therefor. J. C. Phillips. No. 913,427; Feb. 23; Sp. p. 4949; Gaz. vol. 139; p. 886.
- Switch mechanism, Automatic. F. M. Oeder. No. 924,687; June 15; Sp. p. 3427; Gaz. vol. 143; p. 590.
- Switch mechanism, Electric. J. G. Peterson. No. 937,957; Oct. 26; Sp. p. 4911; Gaz. vol. 147; p. 848.
- Switch mechanism, Electric snap. C. G. Perkins. No. 932,056; Aug. 24; Sp. p. 5183; Gaz. vol. 145; p. 884.
- Switch-operating apparatus. A. Vaitauer. No. 929,522; July 27; Sp. p. 5823; Gaz. vol. 144; p. 1023.
- Switch-operating device. A. L. Huber. No. 911,988; Feb. 9; Sp. p. 1972; Gaz. vol. 139; p. 346.
- Switch-operating device. T. H. Lord. No. 916,738; Mar. 30; Sp. p. 6234; Gaz. vol. 140; p. 1116.
- Switch-operating device. G. M. Spalding. No. 923,590; June 1; Sp. p. 1074; Gaz. vol. 143; p. 164.
- Switch-operating device. C. C. Johnson. No. 926,570; June 29; Sp. p. 7215; Gaz. vol. 143; p. 1276.
- Switch-operating device. G. A. and J. F. Schwebel. No. 927,684; July 13; Sp. p. 2047; Gaz. vol. 144; p. 356.
- Switch-operating device. W. N. Glosser. No. 943,928; Dec. 21; Sp. p. 4081; Gaz. vol. 149; p. 707.
- Switch operating device, Automatic. R. E. Miller. No. 932,046; Aug. 24; Sp. p. 5164; Gaz. vol. 145; p. 881.
- Switch-operating means. W. J. and O. J. Williams. No. 916,817; Mar. 30; Sp. p. 6378; Gaz. vol. 140; p. 1140.
- Switch-operating mechanism. A. De Witt. No. 908,756; Jan. 5; Sp. p. 695; Gaz. vol. 138; p. 108.
- Switch-operating mechanism. J. W. Eads. No. 915,944; Mar. 23; Sp. p. 4693; Gaz. vol. 140; p. 834.
- Switch-operating mechanism. H. C. Kinsel. No. 920,964; May 11; Sp. p. 1776; Gaz. vol. 142; p. 316.
- Switch-operating mechanism. A. B. Allen. No. 922,233; May 18; Sp. p. 4408; Gaz. vol. 142; p. 765.
- Switch-operating mechanism. C. E. Fryburg. No. 935,843; Oct. 5; Sp. p. 514; Gaz. vol. 147; p. 74.
- Switch-operating mechanism. G. C. Porter. No. 936,161; Oct. 5; Sp. p. 1176; Gaz. vol. 147; p. 179.
- Switch-point lock. J. M. Shaul. No. 941,735; Nov. 30; Sp. p. 7235; Gaz. vol. 148; p. 1220.
- Switch-point thrower. C. Weiss. No. 915,396; Mar. 16; Sp. p. 3590; Gaz. vol. 140; p. 625.
- Switch-point-throwing mechanism. G. E. Berray. No. 916,941; Mar. 30; Sp. p. 6635; Gaz. vol. 140; p. 1182.
- Switch-points, Mechanism for rolling. W. D. Eynon. No. 936,436; Oct. 12; Sp. p. 1778; Gaz. vol. 147; p. 295.
- Switch-rod. H. M. Mitchell. No. 919,056; Apr. 20; Sp. p. 4354; Gaz. vol. 141; p. 760.
- Switch-rod. E. W. Brown. No. 937,506; Oct. 19; Sp. p. 4003; Gaz. vol. 147; p. 679.
- Switch-rod adjustment. P. B. Blish and C. M. Bruff. No. 928,931; July 27; Sp. p. 4615; Gaz. vol. 144; p. 828.
- Switch-rod connection. J. G. Wise. No. 915,524; Mar. 16; Sp. p. 3830; Gaz. vol. 140; p. 666.
- Switch-shifting mechanism. L. Devers. No. 937,055; Oct. 19; Sp. p. 3021; Gaz. vol. 147; p. 530.
- Switch-signal. R. B. Cunningham. No. 920,050; Apr. 27; Sp. p. 6558; Gaz. vol. 141; p. 1118.
- Switch signaling and operating mechanism. W. R. Oyler. No. 942,099; Dec. 7; Sp. p. 133; Gaz. vol. 149; p. 21.
- Switch-stand. C. W. Reinehl and M. W. Long. No. 913,163; Feb. 23; Sp. p. 4405; Gaz. vol. 139; p. 796.
- Switch-stand. F. C. Anderson. No. 913,185; Feb. 23; Sp. p. 4460; Gaz. vol. 139; p. 804.
- Switch-stand. E. N. Strom. No. 913,926; Mar. 2; Sp. p. 552; Gaz. vol. 140; p. 89.
- Switch-stand. H. H. Lloyd. No. 927,364; July 6; Sp. p. 1323; Gaz. vol. 144; p. 220.
- Switch-stand. W. O. Hardage. No. 928,124; July 13; Sp. p. 2928; Gaz. vol. 144; p. 500.
- Switch-stand. H. F. Roach. No. 929,881; Aug. 3; Sp. p. 549; Gaz. vol. 145; p. 88.
- Switch-stand. W. M. Brown. No. 930,645; Aug. 10; Sp. p. 2106; Gaz. vol. 145; p. 367.
- Switch-stand. A. A. Strom. No. 934,851; Sept. 21; Sp. p. 3777; Gaz. vol. 146; p. 655.
- Switch-stand. A. A. Strom. No. 934,852; Sept. 21; Sp. p. 3779; Gaz. vol. 146; p. 655.
- Switch-stand. J. T. Farrell. No. 935,005; Sept. 28; Sp. p. 4089; Gaz. vol. 146; p. 733.
- Switch-stand. B. R. Scott. No. 936,819; Oct. 12; Sp. p. 2538; Gaz. vol. 147; p. 424.
- Switch-stand. S. K. Blair. No. 937,758; Oct. 26; Sp. p. 4496; Gaz. vol. 147; p. 781.
- Switch-stand. C. Raiter. No. 941,813; Nov. 30; Sp. p. 7412; Gaz. vol. 148; p. 1246.



*Alphabetical list of inventions—Continued.*

- Switch-stand. C. W. Reimoehl and C. W. Long. No. 941,814; Nov. 30; Sp. p. 7414; Gaz. vol. 148; p. 1246.
- Switch-stand, Automatic. E. E. Staggs. No. 930,897; Aug. 10; Sp. p. 2631; Gaz. vol. 145; p. 451.
- Switch-stand safety-lock. R. F. Jacob. No. 921,544; May 11; Sp. p. 2972; Gaz. vol. 142; p. 511.
- Switch starter, Multiple. J. T. Janette. No. 911,592; Feb. 9; Sp. p. 1107; Gaz. vol. 139; p. 215.
- Switch starter, Multiple. H. J. Wiegand. No. 913,865; Mar. 2; Sp. p. 414; Gaz. vol. 140; p. 67.
- Switch starter, Multiple. H. J. Wiegand. No. 913,999; Mar. 2; Sp. p. 723; Gaz. vol. 140; p. 115.
- Switch starter, Multiple. T. E. Barnum. No. 918,493; Apr. 20; Sp. p. 3123; Gaz. vol. 141; p. 573.
- Switch starter, Multiple. L. L. Tatum. No. 918,608; Apr. 20; Sp. p. 3365; Gaz. vol. 141; p. 610.
- Switch starter, Multiple. L. L. Tatum. No. 918,609; Apr. 20; Sp. p. 3370; Gaz. vol. 141; p. 610.
- Switch structure. F. Nather. No. 920,619; May 4; Sp. p. 1063; Gaz. vol. 142; p. 172.
- Switch-thrower, Automatic. T. Baham and S. Carr. No. 915,709; Mar. 16; Sp. p. 4243; Gaz. vol. 140; p. 731.
- Switch-thrower, Automatic. C. E. Moody. No. 921,555; May 11; Sp. p. 2993; Gaz. vol. 142; p. 514.
- Switch-thrower for electric railways. T. C. Reynolds. No. 924,830; June 15; Sp. p. 3731; Gaz. vol. 143; p. 638.
- Switch-throwing device. P. Healy. No. 915,857; Mar. 23; Sp. p. 4536; Gaz. vol. 140; p. 806.
- Switch-throwing device. P. H. Petersen. No. 917,652; Apr. 6; Sp. p. 1341; Gaz. vol. 141; p. 236.
- Switch-throwing device. D. D. Arehart, Jr. No. 921,638; May 11; Sp. p. 3177; Gaz. vol. 142; p. 543.
- Switch-throwing device, Automatic. A. M. Mitchell. No. 935,043; Sept. 28; Sp. p. 4157; Gaz. vol. 146; p. 745.
- Switch-throwing, track sanding and sweeping device, Automatic. S. A. Johnson. No. 920,066; Apr. 27; Sp. p. 6646; Gaz. vol. 141; p. 1131.
- Switch-throwing, track sanding and sweeping device, Automatic. S. A. Johnson. No. 943,938; Dec. 21; Sp. p. 4102; Gaz. vol. 149; p. 711.
- Switches, Actuating and locking mechanism for tongue-. A. B. Davenport, Jr., and C. Reigart. No. 922,396; May 15; Sp. p. 4721; Gaz. vol. 142; p. 818.
- Switches and for other purposes, Mechanism for controlling time-. J. N. Reynolds and F. E. Buddington. No. 911,072; Feb. 2; Sp. p. 99; Gaz. vol. 139; p. 18.
- Switches, Control of electrically-operated. A. S. Cubitt. No. 941,408; Nov. 30; Sp. p. 6556; Gaz. vol. 148; p. 1112.
- Switching apparatus. M. S. Conner. No. 926,175; June 29; Sp. p. 6475; Gaz. vol. 143; p. 1147.
- Switching apparatus, Thermostatic. W. V. D. Kelley. No. 908,679; Jan. 5; Sp. p. 534; Gaz. vol. 138; p. 82.
- Switching device. J. B. Bostwick. No. 921,945; May 18; Sp. p. 3807; Gaz. vol. 142; p. 970.
- Switching device. O. Rennert. No. 936,666; Oct. 12; Sp. p. 2251; Gaz. vol. 147; p. 374.
- Switching device, Fluid-pressure. R. V. Cheatham. No. 934,138; Sept. 14; Sp. p. 2398; Gaz. vol. 146; p. 393.
- Switchboard. A. L. Goldschmidt. No. 918,845; Apr. 20; Sp. p. 3918; Gaz. vol. 141; p. 690.
- Switchboard. R. C. Livingston. No. 933,716; Sept. 7; Sp. p. 1543; Gaz. vol. 146; p. 234.
- Switchboard and cut-out. T. E. Murray. No. 943,699; Dec. 21; Sp. p. 3602; Gaz. vol. 149; p. 627.
- Switchboard, Automatic. A. and P. Jambor. No. 932,132; Aug. 24; Sp. p. 5332; Gaz. vol. 145; p. 909.
- Switchboard panel construction. A. F. Dixon. No. 918,513; Apr. 20; Sp. p. 3164; Gaz. vol. 141; p. 580.
- Switchboard-signal. O. M. Leich. No. 918,682; Apr. 20; Sp. p. 3581; Gaz. vol. 141; p. 636.
- Swivel. H. M. Rounds. No. 913,056; Feb. 23; Sp. p. 4201; Gaz. vol. 139; p. 760.
- Swivel. A. Opsal. No. 917,349; Apr. 6; Sp. p. 804; Gaz. vol. 141; p. 137.
- Swivel. J. Wennstrom. No. 925,406; June 15; Sp. p. 4541; Gaz. vol. 143; p. 827.
- Swivel. J. S. Augustine. No. 929,535; July 27; Sp. p. 5844; Gaz. vol. 144; p. 1027.
- Swivel. W. R. Clarkson. No. 933,625; Sept. 7; Sp. p. 1356; Gaz. vol. 146; p. 202.
- Swivel. J. G. Owen. No. 935,627; Sept. 28; Sp. p. 5346; Gaz. vol. 146; p. 938.
- Swivel, &c. H. M. Eldridge. No. 916,127; Mar. 23; Sp. p. 5042; Gaz. vol. 140; p. 893.
- Swivel, Chain-. A. J. Pollock. No. 912,323; Feb. 16; Sp. p. 2682; Gaz. vol. 139; p. 491.
- Swivel connection. G. Guild. No. 937,301; Oct. 19; Sp. p. 3539; Gaz. vol. 147; p. 612.
- Swivel-coupling. M. H. Hart. No. 918,542; Apr. 20; Sp. p. 3231; Gaz. vol. 141; p. 589.
- Swivel-coupling. B. Henley. No. 923,519; June 1; Sp. p. 902; Gaz. vol. 143; p. 138.
- Swivel, Detachable. D. M. Carson and G. T. Gilkerson. No. 943,299; Dec. 14; Sp. p. 2727; Gaz. vol. 149; p. 460.
- Swivel-hook. W. R. Clarkson. No. 931,270; Aug. 17; Sp. p. 3493; Gaz. vol. 145; p. 605.
- Swivel-hook. C. G. Theiling. No. 942,681; Dec. 7; Sp. p. 1344; Gaz. vol. 149; p. 221.
- Swivel, Hydraulic. H. G. Johnston. No. 929,953; Aug. 3; Sp. p. 705; Gaz. vol. 145; p. 112.
- Swivel-joint for speedometer-driving connections. J. K. Stewart. No. 930,431; Aug. 10; Sp. p. 1630; Gaz. vol. 145; p. 295.
- Synchrionizer, Automatic. H. Marshall. No. 932,877; Aug. 31; Sp. p. 6859; Gaz. vol. 145; p. 1178.
- Synchronizing apparatus. P. Pierini. No. 941,891; Nov. 30; Sp. p. 7572; Gaz. vol. 148; p. 1274.
- Syringe. F. S. Honsinger. No. 911,724; Feb. 9; Sp. p. 1393; Gaz. vol. 139; p. 259.
- Syringe. H. F. Ong. No. 914,871; Mar. 9; Sp. p. 2564; Gaz. vol. 140; p. 428.
- Syringe. J. R. Harris. No. 914,950; Mar. 9; Sp. p. 2693; Gaz. vol. 140; p. 452.
- Syringe. P. L. Wilbur. No. 915,917; Mar. 23; Sp. p. 4647; Gaz. vol. 140; p. 825.
- Syringe. H. A. Mather. No. 916,177; Mar. 23; Sp. p. 5135; Gaz. vol. 140; p. 909.
- Syringe. C. F. Welsh. No. 918,234; Apr. 13; Sp. p. 2586; Gaz. vol. 141; p. 461.
- Syringe. P. J. McElroy. No. 919,918; Apr. 27; Sp. p. 6340; Gaz. vol. 141; p. 1083.
- Syringe. B. F. Lockwood. No. 921,130; May 11; Sp. p. 2112; Gaz. vol. 142; p. 372.
- Syringe. E. T. Pearl. No. 926,960; July 6; Sp. p. 531; Gaz. vol. 144; p. 87.
- Syringe. A. Bean. No. 931,113; Aug. 17; Sp. p. 3137; Gaz. vol. 145; p. 549.
- Syringe. F. A. Stahl. No. 933,398; Sept. 7; Sp. p. 820; Gaz. vol. 146; p. 127.
- Syringe. C. Remhof. No. 933,490; Sept. 7; Sp. p. 1094; Gaz. vol. 146; p. 157.
- Syringe. J. W. Short. No. 942,015; Nov. 30; Sp. p. 7808; Gaz. vol. 148; p. 1315.
- Syringe, Antiseptic. C. Piers. No. 911,523; Feb. 2; Sp. p. 953; Gaz. vol. 139; p. 166.
- Syringe case, Physician's hypodermic-. S. Sinkler. No. 933,791; Sept. 14; Sp. p. 1687; Gaz. vol. 146; p. 280.
- Syringe for hypodermic and intramuscular injections. R. Lombardo. No. 938,597; Nov. 2; Sp. p. 355; Gaz. vol. 148; p. 53.
- Syringe, Hot-air. H. E. Vogel. No. 911,687; Feb. 9; Sp. p. 1325; Gaz. vol. 139; p. 246.
- Syringe, Hypodermic. T. M. Quarles. No. 922,331; May 18; Sp. p. 4582; Gaz. vol. 142; p. 796.
- Syringe, Hypodermic. J. B. Woodruff. No. 936,205; Oct. 5; Sp. p. 1257; Gaz. vol. 147; p. 190.
- Syringe, Hypodermic. W. Ball. No. 938,544; Nov. 2; Sp. p. 238; Gaz. vol. 148; p. 34.
- Syringe, Hypodermic. F. D. Bell. No. 938,951; Nov. 2; Sp. p. 1097; Gaz. vol. 148; p. 174.
- Syringe, Irrigating-. W. S. Sawyer. No. 942,523; Dec. 7; Sp. p. 1043; Gaz. vol. 149; p. 168.
- Syringe-nozzle. J. W. Perkins. No. 933,578; Sept. 7; Sp. p. 1262; Gaz. vol. 146; p. 186.
- Syringe or the like. C. P. Leyner. No. 939,520; Nov. 9; Sp. p. 2371; Gaz. vol. 148; p. 393.
- Syringe, Vaginal. F. A. Neveu. No. 930,312; Aug. 3; Sp. p. 1391; Gaz. vol. 145; p. 231.
- Syringe, Vaginal. C. S. Eichholtz. No. 937,292; Oct. 19; Sp. p. 3523; Gaz. vol. 147; p. 609.
- Syringe, Vaginal. C. P. Leyner. No. 937,311; Oct. 19; Sp. p. 3556; Gaz. vol. 147; p. 615.
- Syringe, Vaginal. E. H. Keske. No. 939,266; Nov. 9; Sp. p. 1771; Gaz. vol. 148; p. 307.
- Syringe, Vaginal. W. Herschlay. No. 944,136; Dec. 21; Sp. p. 4524; Gaz. vol. 149; p. 776.
- Syringe, Water-bag. G. E. Kim. No. 926,197; June 29; Sp. p. 6527; Gaz. vol. 143; p. 1154.
- Syringes, &c., Nozzle for. H. A. Kaysan. No. 908,573; Jan. 5; Sp. p. 292; Gaz. vol. 138; p. 49.
- Syringes, &c., Nozzle for. H. A. Kaysan. No. 909,093; Jan. 5; Sp. p. 1350; Gaz. vol. 138; p. 217.
- Syrup, Apparatus for the manufacture of simple. S. T. Hensel. No. 912,959; Feb. 16; Sp. p. 3986; Gaz. vol. 139; p. 702.
- Syrup, Refining. C. B. Duryea. No. 916,683; Mar. 30; Sp. p. 6142; Gaz. vol. 140; p. 1101.
- T-slot bar. G. H. Vining. No. 931,164; Aug. 17; Sp. p. 3254; Gaz. vol. 145; p. 567.
- Table: See Automobile turn-table; Bath-table; Billiard-table; Brick and tile cutting table; Card-table; Cigarmaker's table; Cigar-rolling table; Coal-picking table; Collapsible table; Combination-table; Computing-table; Concentrating table; Convertible table; Desk-table; Dining-table; Disappearing table; Drafting-table; Drawing-table; Dressing-table; Drilling-machine table; Embalming-table; Extension-table; Fitting-table; Foldable table; Folding table; Game-table; Glass-cutting table; Glazier's table; Grinding-machine feed-table; Invalid-table; Invalid's table; Ironing-table; Knockdown table; Library-table; Marine table; Mill roller-table; Operating-table; Osteopathic table; Pedestal-table; Pool-table; Pool or billiard table; Post-mortem table; Punching-press dividing-table; Rolling-mill transfer-table; Rotary table; Self-levelling table; Self-serving table; Shear-table; Ship-table; Slag-handling table; Steaming-table; Surgical table; Tilt-table; Turn-table; Veterinary operating-table; Work-table.
- Table. W. Hanley. No. 909,787; Jan. 12; Sp. p. 2729; Gaz. vol. 138; p. 481.
- Table. O. J. Rogers. No. 914,514; Mar. 9; Sp. p. 1813; Gaz. vol. 140; p. 309.
- Table. C. Van Horne. No. 915,910; Mar. 23; Sp. p. 4634; Gaz. vol. 140; p. 822.
- Table. G. A. Myers. No. 925,370; June 15; Sp. p. 4776; Gaz. vol. 143; p. 815.
- Table. H. J. Sharp. No. 929,989; Aug. 3; Sp. p. 781; Gaz. vol. 145; p. 124.
- Table. A. J. Iwan. No. 932,552; Aug. 31; Sp. p. 6182; Gaz. vol. 145; p. 1072.

*Alphabetical list of inventions—Continued.*

- Table. L. Welker, Jr. No. 940,490; Nov. 16; Sp. p. 4545; Gaz. vol. 148; p. 760.  
 Table. C. Van Horne. No. 943,718; Dec. 21; Sp. p. 3648; Gaz. vol. 149; p. 634.  
 Table and desk, Combined. N. W. Schrunner. No. 943,794; Dec. 21; Sp. p. 3789; Gaz. vol. 149; p. 660.  
 Table and ironing-board, Combined. R. H. Relinghaus. No. 930,884; Aug. 10; Sp. p. 2611; Gaz. vol. 145; p. 446.  
 Table and lamp-stand, Combined. M. F. and M. Koch. No. 926,426; June 29; Sp. p. 6975; Gaz. vol. 143; p. 1228.  
 Table and support. P. E. Joseph. No. 944,560; Dec. 28; Sp. p. 5465; Gaz. vol. 149; p. 948.  
 Table attachment. J. A. Chow. No. 942,613; Dec. 7; Sp. p. 1213; Gaz. vol. 149; p. 198.  
 Table, chair, and ice-chest, Combined. M. J. Mullikin. No. 929,689; Aug. 3; Sp. p. 99; Gaz. vol. 145; p. 18.  
 Table fiddle or guard, Ship's-. W. W. Lang. No. 915,776; Mar. 23; Sp. p. 4396; Gaz. vol. 140; p. 780.  
 Table-knife. T. B. Lashar. No. 920,762; May 4; Sp. p. 1344; Gaz. vol. 142; p. 219.  
 Table-leg fastener. H. S. Gingrich. No. 918,665; Apr. 20; Sp. p. 3541; Gaz. vol. 141; p. 631.  
 Table leg or support. M. McCann. No. 930,982; Aug. 10; Sp. p. 2822; Gaz. vol. 145; p. 477.  
 Table-lever. A. Kovács. No. 934,546; Sept. 21; Sp. p. 3165; Gaz. vol. 146; p. 552.  
 Table lock, Extension-. W. Koester. No. 923,795; June 1; Sp. p. 1559; Gaz. vol. 143; p. 233.  
 Table lock, Extension-. E. Tyden. (Reissue.) No. 13,014; Aug. 24; Sp. p. 5887; Gaz. vol. 145; p. 1004.  
 Table lock, Extension-. J. A. Barbrake. No. 939,379; Nov. 9; Sp. p. 2083; Gaz. vol. 148; p. 347.  
 Table lock, Pedestal-extension-. W. Dickinson. No. 913,271; Feb. 23; Sp. p. 4638; Gaz. vol. 139; p. 832.  
 Table lock, Pedestal-extension-. J. A. Barbrake. No. 918,725; Apr. 20; Sp. p. 3680; Gaz. vol. 141; p. 652.  
 Table locking device, Folding-. D. Buel. No. 927,773; July 13; Sp. p. 2221; Gaz. vol. 144; p. 385.  
 Table-mat. H. M. Kaylor. No. 928,129; July 13; Sp. p. 2941; Gaz. vol. 144; p. 502.  
 Table-mat. H. F. Galbraith and C. F. Black. No. 932,267; Aug. 24; Sp. p. 5593; Gaz. vol. 145; p. 954.  
 Table safety device, Round-. A. F. Elkins. No. 938,561; Nov. 2; Sp. p. 273; Gaz. vol. 148; p. 40.  
 Table-slide. L. A. Wiedeman. No. 937,731; Oct. 19; Sp. p. 4441; Gaz. vol. 147; p. 753.  
 Table-slides, Making steel. O. G. Franks. No. 927,456; July 6; Sp. p. 1536; Gaz. vol. 144; p. 252.  
 Table support, Concentrator-. W. L. and F. S. Card. No. 917,247; Apr. 6; Sp. p. 592; Gaz. vol. 141; p. 102.  
 Table support, Drafting-. N. W. Dexter. No. 915,418; Mar. 16; Sp. p. 3627; Gaz. vol. 140; p. 632.  
 Table-tops and cores for veneered work, Apparatus for assembling and gluing up. O. O. Felts. No. 926,180; June 29; Sp. p. 6493; Gaz. vol. 143; p. 1149.  
 Table upon which to open coin-receptacles. A. Shepard. No. 917,672; Apr. 6; Sp. p. 1377; Gaz. vol. 141; p. 243.  
 Tables and chairs, Fastening device for legs of. J. Phelps. No. 930,793; Aug. 10; Sp. p. 2401; Gaz. vol. 145; p. 416.  
 Tablet, Erasive. J. S. Rapson. No. 923,576; June 1; Sp. p. 1028; Gaz. vol. 143; p. 158.  
 Tabulating mechanism. S. J. Quincy. No. 922,812; May 25; Sp. p. 5586; Gaz. vol. 142; p. 981.  
 Tabulator. E. B. Cram. No. 932,763; Aug. 31; Sp. p. 6640; Gaz. vol. 145; p. 1142.  
 Tabulator mechanism. G. C. Blickensderfer. No. 930,136; Aug. 3; Sp. p. 1083; Gaz. vol. 145; p. 175.  
 Tack-driver. E. W. Keith and E. Danner. No. 926,658; June 29; Sp. p. 7399; Gaz. vol. 143; p. 1305.  
 Tack-feeding device. B. B. Waterman. No. 924,707; June 15; Sp. p. 3470; Gaz. vol. 143; p. 597.  
 Tack-puller. J. S. Swan, Jr. No. 918,219; Apr. 13; Sp. p. 2559; Gaz. vol. 141; p. 456.  
 Tack puller, Insole-. L. G. Freeman. No. 923,828; June 8; Sp. p. 1657; Gaz. vol. 143; p. 274.  
 Tack-pulling machine. L. V. Miller. No. 931,946; Aug. 24; Sp. p. 4937; Gaz. vol. 145; p. 847.  
 Tack-pulling machine, Insole-. W. F. Reulmann. No. 912,730; Feb. 16; Sp. p. 3572; Gaz. vol. 139; p. 631.  
 Tack-separating device. F. J. Redemann. No. 919,636; Apr. 27; Sp. p. 5745; Gaz. vol. 141; p. 988.  
 Tack, Window-shade. L. B. Girard. No. 942,321; Dec. 7; Sp. p. 625; Gaz. vol. 149; p. 99.  
 Tag. S. C. Hull. No. 911,306; Feb. 2; Sp. p. 559; Gaz. vol. 139; p. 96.  
 Tag. W. G. Keene. No. 913,732; Mar. 2; Sp. p. 113; Gaz. vol. 140; p. 20.  
 Tag. W. L. Hall. No. 915,054; Mar. 9; Sp. p. 2864; Gaz. vol. 140; p. 485.  
 Tag. C. C. Blake. No. 915,157; Mar. 16; Sp. p. 3120; Gaz. vol. 140; p. 547.  
 Tag. G. H. Pierce. No. 916,588; Mar. 30; Sp. p. 5968; Gaz. vol. 140; p. 1071.  
 Tag. R. Kepner. No. 916,716; Mar. 30; Sp. p. 6196; Gaz. vol. 140; p. 1110.  
 Tag. G. H. Taylor. No. 924,946; June 15; Sp. p. 3964; Gaz. vol. 143; p. 677.  
 Tag. A. F. Pine. No. 944,744; Dec. 28; Sp. p. 5867; Gaz. vol. 149; p. 1011.  
 Tag and buckle, Combined. R. G. Hitt. No. 936,896; Oct. 12; Sp. p. 2696; Gaz. vol. 147; p. 450.  
 Tag-fastener. J. Kaufman. No. 915,357; Mar. 16; Sp. p. 3507; Gaz. vol. 140; p. 611.  
 Tag-fastener. J. C. Harris and W. J. Flood. No. 931,420; Aug. 17; Sp. p. 3802; Gaz. vol. 145; p. 657.  
 Tag-fastener. G. A. Wadsworth. No. 938,446; Oct. 26; Sp. p. 5991; Gaz. vol. 147; p. 1015.  
 Tag for neckwear, &c. E. S. Bachrach. No. 912,225; Feb. 9; Sp. p. 2425; Gaz. vol. 139; p. 419.  
 Tag-holder. E. S. Coy. No. 917,010; Apr. 6; Sp. p. 89; Gaz. vol. 141; p. 20.  
 Tag-holder. O. Anderson. No. 938,946; Nov. 2; Sp. p. 1089; Gaz. vol. 148; p. 173.  
 Tag holder and stringer and loop-knotter therefor. W. A. Haywood. No. 943,972; Dec. 21; Sp. p. 4166; Gaz. vol. 149; p. 721.  
 Tag, Key-ring. H. E. Milleson. No. 930,776; Aug. 10; Sp. p. 2369; Gaz. vol. 145; p. 410.  
 Tag, Laundry-. G. A. Willard. No. 916,939; Mar. 30; Sp. p. 6632; Gaz. vol. 140; p. 1181.  
 Tag, Laundry-. W. J. Baker. No. 920,412; May 4; Sp. p. 657; Gaz. vol. 142; p. 104.  
 Tag or check. A. S. Rheuma. No. 922,510; May 25; Sp. p. 4955; Gaz. vol. 142; p. 883.  
 Tag, Shipping-. G. C. Carman. No. 911,206; Feb. 2; Sp. p. 361; Gaz. vol. 139; p. 63.  
 Tag, Shipping-. J. W. Foster. No. 938,310; Oct. 26; Sp. p. 5688; Gaz. vol. 147; p. 968.  
 Tags, Seal-lock fastener for. E. W. Worley. No. 929,359; July 27; Sp. p. 5550; Gaz. vol. 144; p. 977.  
 Tails's indicator. H. H. Woolson. No. 909,046; Jan. 5; Sp. p. 1249; Gaz. vol. 138; p. 201.  
 Talking-machine. T. Kraemer. No. 910,208; Jan. 19; Sp. p. 3596; Gaz. vol. 138; p. 653.  
 Talking-machine. L. P. Valiquet. No. 914,765; Mar. 9; Sp. p. 2342; Gaz. vol. 140; p. 393.  
 Talking-machine. D. S. Edmonds. No. 915,022; Mar. 9; Sp. p. 2809; Gaz. vol. 140; p. 475.  
 Talking-machine. H. Hinks-Martin, A. W. Camron, and P. J. Packman. No. 921,835; May 18; Sp. p. 3605; Gaz. vol. 142; p. 636.  
 Talking-machine. J. M. Landon. No. 922,297; May 18; Sp. p. 4520; Gaz. vol. 142; p. 785.  
 Talking-machine. A. Keller. No. 925,346; June 15; Sp. p. 4734; Gaz. vol. 143; p. 808.  
 Talking-machine. F. Shaffer. No. 929,505; July 27; Sp. p. 5792; Gaz. vol. 144; p. 1016.  
 Talking-machine. A. Keller. No. 930,294; Aug. 3; Sp. p. 1362; Gaz. vol. 145; p. 225.  
 Talking-machine. H. F. Cook. No. 933,234; Sept. 7; Sp. p. 466; Gaz. vol. 146; p. 72.  
 Talking-machine. R. L. Gibson. No. 936,531; Oct. 12; Sp. p. 1972; Gaz. vol. 147; p. 325.  
 Talking-machine. L. P. Valiquet. No. 938,185; Oct. 26; Sp. p. 5425; Gaz. vol. 147; p. 926.  
 Talking-machine. W. W. Wooster. No. 939,781; Nov. 9; Sp. p. 2940; Gaz. vol. 148; p. 485.  
 Talking-machine attachment. H. F. Wittig. No. 910,103; Jan. 19; Sp. p. 3364; Gaz. vol. 138; p. 618.  
 Talking-machine automatic brake. G. Buelna. No. 911,202; Feb. 2; Sp. p. 355; Gaz. vol. 139; p. 62.  
 Talking-machine horn. T. A. Edison. No. 943,663; Dec. 21; Sp. p. 3597; Gaz. vol. 149; p. 616.  
 Talking-machine, Magazine. C. E. and W. H. Krueger. No. 915,448; Mar. 16; Sp. p. 3687; Gaz. vol. 140; p. 642.  
 Talking-machine mechanism. H. Sheble. No. 912,425; Feb. 16; Sp. p. 2894; Gaz. vol. 139; p. 525.  
 Talking-machine mechanism. T. Kraemer. No. 913,828; Mar. 2; Sp. p. 306; Gaz. vol. 140; p. 53.  
 Talking-machine needle. J. E. and W. B. Sullivan. No. 918,389; Apr. 13; Sp. p. 2892; Gaz. vol. 141; p. 511.  
 Talking-machine needle-holder. W. B. Claffin. No. 917,925; Apr. 13; Sp. p. 1951; Gaz. vol. 141; p. 354.  
 Talking-machine reproducing-stylus. G. K. Cheney. No. 915,936; Mar. 23; Sp. p. 4678; Gaz. vol. 140; p. 830.  
 Talking-machine sectional horn. E. A. Hawthorne. No. 935,980; Oct. 5; Sp. p. 809; Gaz. vol. 147; p. 120.  
 Talking-machine sound-box. T. Kraemer. No. 912,857; Feb. 16; Sp. p. 3810; Gaz. vol. 139; p. 671.  
 Talking-machine sound-box. H. Jardé. No. 917,076; Apr. 6; Sp. p. 227; Gaz. vol. 141; p. 42.  
 Talking-machine sound-box. M. Keen. No. 940,161; Nov. 16; Sp. p. 3792; Gaz. vol. 148; p. 646.  
 Talking-machine sound-box. J. C. English. No. 940,795; Nov. 23; Sp. p. 5229; Gaz. vol. 148; p. 887.  
 Talking-machine sound-box. A. Fischer. No. 942,810; Dec. 7; Sp. p. 1613; Gaz. vol. 149; p. 265.  
 Talking-machine sound-modifier. E. F. Shepard. No. 925,958; June 22; Sp. p. 6011; Gaz. vol. 143; p. 1038.  
 Talking-machine sound-modifying means. E. S. Oliver. No. 932,055; Aug. 24; Sp. p. 5179; Gaz. vol. 145; p. 884.  
 Talking-machine sound-reproducing box, Disk-. F. de Beaux. No. 916,976; Apr. 6; Sp. p. 26; Gaz. vol. 141; p. 8.  
 Talking-machine stand and horn, Combined. H. C. Miller. (Reissue.) No. 12,963; May 25; Sp. p. 6289; Gaz. vol. 142; p. 1098.  
 Talking-machine stand and horn, Combined. H. C. Miller. (Reissue.) No. 13,044; Nov. 23; Sp. p. 6404; Gaz. vol. 148; p. 1071.  
 Talking-machine stylus-replenishing mechanism. G. Beulina and A. E. Burson. No. 931,676; Aug. 17; Sp. p. 4299; Gaz. vol. 145; p. 735.  
 Talking-machines, Apparatus for making sound-records for. C. S. Wickes. No. 941,291; Nov. 23; Sp. p. 6281; Gaz. vol. 148; p. 1052.  
 Talking-machines, Brake mechanism for. G. Buelna and A. E. Burson. No. 930,038; Aug. 3; Sp. p. 870; Gaz. vol. 145; p. 140.  
 Tally-box. E. K. Hood. No. 909,185; Jan. 12; Sp. p. 1554; Gaz. vol. 138; p. 281.



*Alphabetical list of inventions—Continued.*

- Tally-card. E. D. McKenna. No. 927,581; July 13; Sp. p. 1797; Gaz. vol. 144; p. 320.
- Tam-o'-shanter and hood, Combined. O. Hurlbert. No. 927,144; July 6; Sp. p. 927; Gaz. vol. 144; p. 149.
- Tamping-machine. C. O. Brandell. No. 943,966; Dec. 21; Sp. p. 4153; Gaz. vol. 149; p. 719.
- Tamping tool, Dirt-. H. A. Sherman. No. 940,370; Nov. 16; Sp. p. 4281; Gaz. vol. 148; p. 719.
- Tank: See Battery-tank; Causticizing-tank; Cooking and canning tank; Developing-tank; Dipping-tank; Dispensing-tank; Dust-separating tank; Electroplating-tank; Expansion-tank; Flush-tank; Flushing-tank; Gas-storing tank; Grain-tank; Measuring-tank; Pasteurizing holding-tank; Photographic washing-tank; Self-cleaning tank; Separator-tank; Septic tank; Settling-tank; Sheet-metal tank; Ship's ballast-tank; Stock-dipping tank; Valve flush-tank; Water-tank; Water-closet tank; Water-closet, &c., tank; Water-closet flush-tank; Watering-tank; Wood tank.
- Tank. A. R. Beal and A. Hettel. No. 919,306; Apr. 27; Sp. p. 5043; Gaz. vol. 141; p. 875.
- Tank. C. H. Zwermann. No. 932,530; Aug. 31; Sp. p. 6128; Gaz. vol. 145; p. 1063.
- Tank. E. E. Straw. No. 941,895; Nov. 30; Sp. p. 7584; Gaz. vol. 148; p. 1276.
- Tank and spray pump. W. L. Deming. No. 916,920; Mar. 30; Sp. p. 6587; Gaz. vol. 140; p. 1174.
- Tank automatic refilling apparatus, Pressure-. T. P. and T. B. Ford. No. 909,574; Jan. 12; Sp. p. 2306; Gaz. vol. 138; p. 408.
- Tank-band fastener. F. C. Stuckel. No. 933,211; June 1; Sp. p. 189; Gaz. vol. 143; p. 31.
- Tank device, Widow's-Cruse. P. W. Morris. No. 933,484; Sept. 7; Sp. p. 1076; Gaz. vol. 146; p. 155.
- Tank-float. F. M. Stevens. No. 924,398; June 8; Sp. p. 2829; Gaz. vol. 143; p. 461.
- Tank for gasoline, &c. A. A. Augustus. No. 930,334; Aug. 10; Sp. p. 1439; Gaz. vol. 145; p. 263.
- Tank hanger, Closet-. P. M. Nevius. No. 919,204; Apr. 20; Sp. p. 4626; Gaz. vol. 141; p. 807.
- Tank-heater. S. S. Woodbury. No. 931,980; Aug. 24; Sp. p. 5012; Gaz. vol. 145; p. 858.
- Tank-heater and feed-cooker. J. S. Christensen. No. 922,457; May 25; Sp. p. 4851; Gaz. vol. 142; p. 866.
- Tank indicator, Liquid-fuel-. S. H. Peckham. No. 923,073; May 25; Sp. p. 6143; Gaz. vol. 142; p. 1066.
- Tank-lug. J. Reichert. No. 911,071; Feb. 2; Sp. p. 97; Gaz. vol. 139; p. 18.
- Tank-operating device, Flush-. B. O. Tilden. No. 12,910; Jan. 12; Sp. p. 2853; Gaz. vol. 138; p. 503.
- Tank-operating device, Flush-. B. O. Tilden. No. 915,636; Mar. 16; Sp. p. 4090; Gaz. vol. 140; p. 706.
- Tank-operating device, Flush-. B. O. Tilden. No. 915,637; Mar. 16; Sp. p. 4093; Gaz. vol. 140; p. 707.
- Tank safety device, Pressure-. H. C. Hanson. No. 925,699; June 22; Sp. p. 5441; Gaz. vol. 143; p. 952.
- Tanks and other appliances, Apparatus for controlling the admission and relief of pressure to. E. C. Moore. No. 914,497; Mar. 9; Sp. p. 1769; Gaz. vol. 140; p. 304.
- Tanks, Float-controlled switch for filling. S. W. Netherton. No. 916,183; Mar. 23; Sp. p. 5146; Gaz. vol. 140; p. 911.
- Tanks from bursting by freezing, Means to prevent. A. Ballard. No. 931,112; Aug. 17; Sp. p. 3136; Gaz. vol. 145; p. 549.
- Tanks or cans, Safety attachment for. N. B. Ippolito. No. 928,660; July 20; Sp. p. 4075; Gaz. vol. 144; p. 710.
- Tanks, &c., Overflow device for pressure-. W. H. Ridgway. No. 914,978; Mar. 9; Sp. p. 2736; Gaz. vol. 140; p. 461.
- Tanks used in skimming sillage from crucibles into water, Cover for. W. H. Carpenter. No. 938,555; Nov. 2; Sp. p. 261; Gaz. vol. 148; p. 38.
- Tanned fabric and making same, Artificial. E. Weinheim. No. 926,527; June 29; Sp. p. 7143; Gaz. vol. 143; p. 1261.
- Tanned fabric with finish coating and making same, Artificial. E. Weinheim. No. 926,525; June 29; Sp. p. 7137; Gaz. vol. 143; p. 1260.
- Tannin-containing extract and producing same. A. Kumpfmiller. No. 940,394; Nov. 16; Sp. p. 4348; Gaz. vol. 148; p. 728.
- Tanning and depilating hides and skins, Means for. C. J. Glasel. No. 931,858; Aug. 24; Sp. p. 4724; Gaz. vol. 145; p. 818.
- Tanning composition. I. I. Burrows. No. 914,382; Mar. 9; Sp. p. 1560; Gaz. vol. 140; p. 265.
- Tanning extracts, Manufacture of. D. Stewart. No. 909,343; Jan. 12; Sp. p. 1855; Gaz. vol. 138; p. 332.
- Tanning-machine. F. H. Yocum. No. 916,821; Mar. 30; Sp. p. 6384; Gaz. vol. 140; p. 1141.
- Tanning machine, Automatic hide-. C. J. Glasel. No. 922,415; May 18; Sp. p. 4756; Gaz. vol. 142; p. 825.
- Tanning skins and hides. H. Schmid. No. 937,720; Oct. 19; Sp. p. 4420; Gaz. vol. 147; p. 750.
- Tantalum, Hardening. W. von Bolton. No. 925,988; June 22; Sp. p. 6064; Gaz. vol. 143; p. 1048.
- Tap. A. F. Turner and F. M. Digman. No. 931,526; Aug. 17; Sp. p. 4002; Gaz. vol. 145; p. 689.
- Tap, Adjustable collapsing. F. L. Brown and I. W. Sprink. No. 909,749; Jan. 12; Sp. p. 2656; Gaz. vol. 138; p. 468.
- Tap for drawing liquids from casks, &c. M. Lebold and J. Rath. No. 932,146; Aug. 24; Sp. p. 5362; Gaz. vol. 145; p. 914.
- Tap for tanks, oil-drums, and the like. M. Goodwin. No. 924,762; June 15; Sp. p. 3588; Gaz. vol. 143; p. 616.
- Tap-head, Automatic. I. A. Douglas. No. 915,568; Mar. 16; Sp. p. 3946; Gaz. vol. 140; p. 681.
- Tap socket, Nut-. W. L. Clouse. No. 943,863; Dec. 21; Sp. p. 3934; Gaz. vol. 149; p. 684.
- Taps in receptacles for holding liquids, Securing. E. O. Blackwell. No. 918,117; Apr. 13; Sp. p. 2356; Gaz. vol. 141; p. 422.
- Tapper, Beer-. R. B. Spikes. No. 928,813; July 20; Sp. p. 4363; Gaz. vol. 144; p. 760.
- Tapping and drilling tool. J. H. Dorman. No. 943,009; Dec. 14; Sp. p. 2113; Gaz. vol. 149; p. 362.
- Tapping device. H. Hildenbrand. No. 915,961; Mar. 23; Sp. p. 4729; Gaz. vol. 140; p. 839.
- Tapping-die. G. Ermold. No. 913,001; Feb. 23; Sp. p. 4092; Gaz. vol. 139; p. 742.
- Tapping-furnace. G. O. Seward. No. 940,561; Nov. 16; Sp. p. 4703; Gaz. vol. 148; p. 783.
- Tapping-head or thread-cutter. G. A. and L. E. Miller. No. 915,201; Mar. 16; Sp. p. 3220; Gaz. vol. 140; p. 562.
- Tapping-machine. C. A. Mercier. No. 909,437; Jan. 12; Sp. p. 2030; Gaz. vol. 138; p. 361.
- Tapping-machine. H. Bilgram. No. 922,248; May 18; Sp. p. 4432; Gaz. vol. 142; p. 769.
- Tapping-machine. J. M. Larson. No. 934,407; Sept. 14; Sp. p. 2899; Gaz. vol. 146; p. 484.
- Tapping machine, Main-. W. H. Van Winkle. No. 921,029; May 11; Sp. p. 1901; Gaz. vol. 142; p. 337.
- Tapping means, Liquor-. J. F. Terry. No. 936,877; Oct. 12; Sp. p. 2658; Gaz. vol. 147; p. 443.
- Tape. T. F. Himes. No. 939,839; Nov. 9; Sp. p. 3057; Gaz. vol. 148; p. 504.
- Tape-applying mechanism. M. B. Diskin. No. 912,545; Feb. 16; Sp. p. 3154; Gaz. vol. 139; p. 566.
- Tape-feeding device. J. A. Poirier. No. 920,644; May 4; Sp. p. 1111; Gaz. vol. 142; p. 181.
- Tape-grip. L. D. Richardson. No. 925,384; June 15; Sp. p. 4803; Gaz. vol. 143; p. 820.
- Tape, Loop-. L. M. Victorius. No. 938,028; Oct. 26; Sp. p. 5066; Gaz. vol. 147; p. 871.
- Tape-moistener. F. E. Francis. No. 910,808; Jan. 26; Sp. p. 4879; Gaz. vol. 138; p. 880.
- Tape-scoring apparatus. C. Thibodeau. No. 936,383; Oct. 12; Sp. p. 1637; Gaz. vol. 147; p. 277.
- Taper-roughing tool. B. M. W. Hanson. No. 938,484; Nov. 2; Sp. p. 71; Gaz. vol. 148; p. 13.
- Tar and debris trap. G. R. Evans. No. 943,628; Dec. 14; Sp. p. 3448; Gaz. vol. 149; p. 574.
- Tare-weight. J. W. Ford. No. 928,745; July 20; Sp. p. 4241; Gaz. vol. 144; p. 739.
- Target. H. M. Stern. No. 913,317; Feb. 23; Sp. p. 4734; Gaz. vol. 139; p. 848.
- Target. H. C. Peffer. No. 925,785; June 22; Sp. p. 5658; Gaz. vol. 143; p. 981.
- Target. F. J. Johnston. No. 926,003; June 22; Sp. p. 6091; Gaz. vol. 143; p. 1053.
- Target. A. Müller. No. 926,955; July 6; Sp. p. 520; Gaz. vol. 144; p. 85.
- Target-carrier. W. F. Pinkston. No. 919,378; Apr. 27; Sp. p. 5190; Gaz. vol. 141; p. 900.
- Target, Drop-. J. Krček. No. 918,170; Apr. 13; Sp. p. 2449; Gaz. vol. 141; p. 439.
- Target-holder. C. P. Worrell. No. 937,733; Oct. 19; Sp. p. 4443; Gaz. vol. 147; p. 754.
- Target-practice aiming-machine. C. Monroe. No. 938,327; Oct. 26; Sp. p. 5720; Gaz. vol. 147; p. 974.
- Target-practice apparatus. H. H. Cummings. No. 920,029; Apr. 27; Sp. p. 6551; Gaz. vol. 141; p. 1117.
- Target-practice apparatus. H. H. Cummings. No. 936,418; Oct. 12; Sp. p. 1714; Gaz. vol. 147; p. 289.
- Target-practice apparatus. H. H. Cummings. No. 936,419; Oct. 12; Sp. p. 1723; Gaz. vol. 147; p. 289.
- Target-practice apparatus. H. H. Cummings. No. 942,615; Dec. 7; Sp. p. 1217; Gaz. vol. 149; p. 199.
- Target-practice apparatus, Coin-controlled. H. H. Cummings. No. 941,360; Nov. 30; Sp. p. 6424; Gaz. vol. 148; p. 1095.
- Target-signal. E. F. Bliss. No. 924,727; June 15; Sp. p. 3511; Gaz. vol. 143; p. 604.
- Target-throwing trap. E. D. Fulford. No. 918,432; Apr. 13; Sp. p. 2978; Gaz. vol. 141; p. 524.
- Target-trap. J. A. Crenshaw. No. 917,850; Apr. 13; Sp. p. 1779; Gaz. vol. 141; p. 327.
- Target-trap. F. H. Merrick. No. 920,362; May 4; Sp. p. 552; Gaz. vol. 142; p. 88.
- Target-trap. S. A. Huntley. No. 922,588; May 25; Sp. p. 5126; Gaz. vol. 142; p. 909.
- Target-trap. W. H. Hiestand. No. 938,861; Nov. 2; Sp. p. 882; Gaz. vol. 148; p. 141.
- Target-trap carrier. W. B. Cosby. No. 917,009; Apr. 6; Sp. p. 87; Gaz. vol. 141; p. 20.
- Target-trap throwing-arm. P. North. No. 934,093; Sept. 14; Sp. p. 2292; Gaz. vol. 146; p. 376.
- Tarsia-work, Manufacturing. F. Kohn. No. 943,309; Dec. 14; Sp. p. 2743; Gaz. vol. 149; p. 463.
- Taxameter. C. Hammer. No. 931,756; Aug. 24; Sp. p. 4518; Gaz. vol. 145; p. 785.
- Taximeter. C. H. Pearson. No. 936,559; Oct. 12; Sp. p. 2030; Gaz. vol. 147; p. 334.
- Tea and coffee percolator. J. S. Gordon and S. P. Mumma. No. 909,178; Jan. 12; Sp. p. 1546; Gaz. vol. 138; p. 279.
- Tea, coffee, grain, or other substances, Apparatus for drying. S. C. Davidson. No. 921,206; May 11; Sp. p. 2272; Gaz. vol. 142; p. 399.
- Tea or coffee pot. C. F. Smith and G. E. Curtiss. No. 940,081; Nov. 16; Sp. p. 3629; Gaz. vol. 148; p. 619.
- Tea-strainer. C. S. Rollins. No. 913,055; Feb. 23; Sp. p. 4200; Gaz. vol. 139; p. 760.
- Teapot-cover. T. J. Clement. No. 930,938; Aug. 10; Sp. p. 2712; Gaz. vol. 145; p. 464.

*Alphabetical list of inventions—Continued.*

- Teapots and other vessels, Hinge for lids of. G. W. Knapp. No. 921,614; May 11; Sp. p. 3122; Gaz. vol. 142; p. 534.
- Teaching penmanship. Device for. S. R. Smith. No. 940,744; Nov. 23; Sp. p. 5101; Gaz. vol. 148; p. 870.
- Teaching shooting. Apparatus for. J. A. Martens. No. 944,368; Dec. 28; Sp. p. 5005; Gaz. vol. 149; p. 881.
- Teat-cups, Pulsating. A. Gillies. No. 918,438; Apr. 13; Sp. p. 2992; Gaz. vol. 141; p. 526.
- Teazeling cloth, &c., Device for. S. Grimson. No. 922,887; May 25; Sp. p. 5772; Gaz. vol. 142; p. 1006.
- Teeter-board, Revolving. R. Barrett. No. 937,753; Oct. 26; Sp. p. 4487; Gaz. vol. 147; p. 779.
- Teeth, Composition for treating. R. Matweiff. No. 937,683; Oct. 19; Sp. p. 4326; Gaz. vol. 147; p. 737.
- Teeth, Composition of matter for nerve-canals in. H. J. Bowerfind. No. 908,942; Jan. 5; Sp. p. 1041; Gaz. vol. 138; p. 168.
- Teeth, Making artificial. J. Humphrey. No. 940,599; Nov. 16; Sp. p. 4773; Gaz. vol. 148; p. 795.
- Teeth, Mounting for artificial. E. J. Greenfield. No. 943,113; Dec. 14; Sp. p. 2347; Gaz. vol. 149; p. 398.
- Teeth upon bridgework, Attachment for artificial. W. M. Jackson. No. 921,709; May 18; Sp. p. 3332; Gaz. vol. 142; p. 593.
- Telautograph. C. F. Jenkins. No. 909,421; Jan. 12; Sp. p. 2003; Gaz. vol. 138; p. 356.
- Telautograph. E. Belin. No. 915,154; Mar. 16; Sp. p. 3110; Gaz. vol. 140; p. 546.
- Telautograph. A. M. and K. Knudsen. No. 920,966; May 11; Sp. p. 1779; Gaz. vol. 142; p. 316.
- Telautograph. G. S. Tiffany. No. 923,385; June 1; Sp. p. 620; Gaz. vol. 143; p. 91.
- Telautograph. G. S. Tiffany. No. 924,512; June 8; Sp. p. 3040; Gaz. vol. 143; p. 498.
- Telegraph and other poles, Protector for. R. B. Lamb. No. 937,448; Oct. 19; Sp. p. 3878; Gaz. vol. 147; p. 669.
- Telegraph and selective system therefor, Automatic. A. C. Gilmore. No. 931,055; Aug. 17; Sp. p. 3004; Gaz. vol. 145; p. 530.
- Telegraph and telephone pole. J. H. Hile. No. 931,425; Aug. 17; Sp. p. 3809; Gaz. vol. 145; p. 658.
- Telegraph and telephone wires, Guard for. C. J. Elliott. No. 928,431; July 20; Sp. p. 3595; Gaz. vol. 144; p. 636.
- Telegraph, Automatic. L. M. Potts. No. 942,844; Dec. 7; Sp. p. 1672; Gaz. vol. 149; p. 274.
- Telegraph-circuit at a distant key, Means for closing an open. C. B. Jewell. No. 908,868; Jan. 5; Sp. p. 905; Gaz. vol. 138; p. 143.
- Telegraph-key. F. W. De Tray. No. 916,538; Mar. 30; Sp. p. 5873; Gaz. vol. 140; p. 1054.
- Telegraph-key. R. I. Leef. No. 916,727; Mar. 30; Sp. p. 6218; Gaz. vol. 140; p. 1113.
- Telegraph-key. L. Wilson. No. 925,737; June 22; Sp. p. 5537; Gaz. vol. 143; p. 965.
- Telegraph-key. J. A. Hulit. No. 932,019; Aug. 24; Sp. p. 5097; Gaz. vol. 145; p. 871.
- Telegraph-key. F. W. Smith and D. C. Conkling. No. 933,726; Sept. 7; Sp. p. 1566; Gaz. vol. 146; p. 237.
- Telegraph-key. G. S. Perry. No. 935,164; Sept. 28; Sp. p. 4404; Gaz. vol. 146; p. 786.
- Telegraph-machine. G. C. Read. No. 929,984; Aug. 3; Sp. p. 766; Gaz. vol. 145; p. 123.
- Telegraph, Multiplex. S. D. Field. No. 942,814; Dec. 7; Sp. p. 1606; Gaz. vol. 149; p. 264.
- Telegraph operators, Transmitting device for. W. C. Achgill. No. 926,162; June 29; Sp. p. 6440; Gaz. vol. 143; p. 1142.
- Telegraph or cable code. M. L. Sweeney. No. 933,679; Sept. 7; Sp. p. 1460; Gaz. vol. 146; p. 220.
- Telegraph-pole. W. H. and H. R. Smalley. No. 928,478; July 20; Sp. p. 3701; Gaz. vol. 144; p. 651.
- Telegraph-pole arm. L. Tyreman. No. 931,661; Aug. 17; Sp. p. 4278; Gaz. vol. 145; p. 730.
- Telegraph, Printing. A. C. Crehore. No. 917,011; Apr. 6; Sp. p. 90; Gaz. vol. 141; p. 20.
- Telegraph, Printing. I. Kitsee. No. 922,781; May 25; Sp. p. 5526; Gaz. vol. 142; p. 971.
- Telegraph, Printing. H. W. Bull. No. 923,488; June 1; Sp. p. 834; Gaz. vol. 143; p. 127.
- Telegraph, Printing. J. C. Barclay. No. 936,849; Oct. 12; Sp. p. 2603; Gaz. vol. 147; p. 434.
- Telegraph, Printing. J. C. Barclay. No. 937,032; Oct. 12; Sp. p. 2972; Gaz. vol. 147; p. 494.
- Telegraph receiver, Wireless. W. M. Way. No. 918,618; Apr. 20; Sp. p. 3391; Gaz. vol. 141; p. 614.
- Telegraph relay and sounder, Combined. A. J. Meyer. No. 909,198; Jan. 12; Sp. p. 1582; Gaz. vol. 138; p. 285.
- Telegraph-repeater. G. L. Rawdon. No. 914,877; Mar. 9; Sp. p. 2571; Gaz. vol. 140; p. 429.
- Telegraph-repeater. C. E. Davies. No. 917,263; Apr. 6; Sp. p. 627; Gaz. vol. 141; p. 107.
- Telegraph-repeater. E. Longoria. No. 926,663; June 29; Sp. p. 7410; Gaz. vol. 143; p. 1307.
- Telegraph sending-machine. J. A. Hulit. No. 939,507; Nov. 9; Sp. p. 2343; Gaz. vol. 148; p. 389.
- Telegraph-sounder intensifier. R. W. Crawford, Jr., R. H. Beck, and L. W. Davies. No. 928,589; July 20; Sp. p. 3927; Gaz. vol. 144; p. 686.
- Telegraph system. G. E. Hines. No. 918,322; Apr. 13; Sp. p. 2760; Gaz. vol. 141; p. 489.
- Telegraph system. W. Leivesley. No. 936,140; Oct. 5; Sp. p. 1138; Gaz. vol. 147; p. 173.
- Telegraph system and apparatus. T. B. Dixon. No. 939,401; Nov. 9; Sp. p. 2125; Gaz. vol. 148; p. 354.
- Telegraph-system antenna, Wireless. C. D. Babcock. No. 919,115; Apr. 20; Sp. p. 4457; Gaz. vol. 141; p. 778.
- Telegraph system, Multiplex. T. Giara. No. 914,713; Mar. 9; Sp. p. 2229; Gaz. vol. 140; p. 375.
- Telegraph system, Quadplex. C. J. App. No. 909,511; Jan. 12; Sp. p. 2186; Gaz. vol. 138; p. 388.
- Telegraph system, Wireless. C. R. Underhill. No. 929,349; July 27; Sp. p. 5532; Gaz. vol. 144; p. 969.
- Telegraph system, Wireless. V. C. De Ybarrodo. No. 935,721; Oct. 5; Sp. p. 209; Gaz. vol. 147; p. 34.
- Telegraph-transmitter. T. J. Dunn. No. 923,033; May 25; Sp. p. 6046; Gaz. vol. 142; p. 1053.
- Telegraph-transmitter. C. W. Leiser. No. 925,925; June 22; Sp. p. 5954; Gaz. vol. 143; p. 1027.
- Telegraph-transmitter. B. F. Bellows. No. 939,383; Nov. 9; Sp. p. 2089; Gaz. vol. 148; p. 349.
- Telegraph-transmitter. G. M. Goddard. No. 939,683; Nov. 9; Sp. p. 2728; Gaz. vol. 148; p. 451.
- Telegraph transmitter, Wireless. C. P. Steinmetz. No. 910,430; Jan. 19; Sp. p. 4086; Gaz. vol. 138; p. 732.
- Telegraph transmitter, Wireless. L. De Forest. No. 926,935; July 6; Sp. p. 474; Gaz. vol. 144; p. 77.
- Telegraph transmitter, Wireless. C. D. Babcock. No. 934,875; Sept. 21; Sp. p. 3815; Gaz. vol. 146; p. 662.
- Telegraph transmitting-machine. J. C. J. Alderson. No. 913,183; Feb. 23; Sp. p. 4457; Gaz. vol. 139; p. 803.
- Telegraph tuning device, Wireless. L. De Forest. No. 926,934; July 6; Sp. p. 472; Gaz. vol. 144; p. 77.
- Telegraphs and the like, Transmitter for electric. C. L. Krum. No. 929,602; July 27; Sp. p. 5972; Gaz. vol. 144; p. 1049.
- Telegraphs, Transmitter for automatic. C. L. Krum. No. 929,603; July 27; Sp. p. 5981; Gaz. vol. 144; p. 1049.
- Telegraphic apparatus, Morse. G. Boggi. No. 932,105; Aug. 24; Sp. p. 5281; Gaz. vol. 145; p. 900.
- Telegraphic instrument. J. J. Ghegan. No. 927,347; July 6; Sp. p. 1299; Gaz. vol. 144; p. 214.
- Telegraphic key or transmitter. H. O. Futt. No. 912,029; Feb. 9; Sp. p. 2056; Gaz. vol. 139; p. 358.
- Telegraphic receiving-tape. P. B. Delany. No. 924,538; June 8; Sp. p. 3101; Gaz. vol. 143; p. 507.
- Telegraphic repeating apparatus. W. E. Athearn. No. 942,807; Dec. 7; Sp. p. 1590; Gaz. vol. 149; p. 262.
- Telegraphic transmitter. P. Dinger. No. 920,034; Apr. 27; Sp. p. 5667; Gaz. vol. 141; p. 1119.
- Telegraphic transmitter, Keyboard. P. B. Delany. No. 911,584; Feb. 2; Sp. p. 701; Gaz. vol. 139; p. 120.
- Telegraphphone. F. Schaefer. No. 934,843; Sept. 21; Sp. p. 3753; Gaz. vol. 146; p. 652.
- Telegraphphone. H. R. Stuart. No. 936,490; Oct. 12; Sp. p. 1890; Gaz. vol. 147; p. 312.
- Telegraphphone apparatus. E. A. Hytten. No. 909,414; Jan. 12; Sp. p. 1983; Gaz. vol. 138; p. 353.
- Telegraphy. P. B. Delany. (Reissue.) No. 12,906; Jan. 5; Sp. p. 1446; Gaz. vol. 138; p. 230.
- Telegraphy. T. A. Edison. No. 909,877; Jan. 19; Sp. p. 2912; Gaz. vol. 138; p. 542.
- Telegraphy. P. B. Delany. No. 918,292; Apr. 13; Sp. p. 2708; Gaz. vol. 141; p. 480.
- Telegraphy. P. B. Delany. No. 918,293; Apr. 13; Sp. p. 2709; Gaz. vol. 141; p. 480.
- Telegraphy. I. Kitsee. No. 921,715; May 18; Sp. p. 3343; Gaz. vol. 142; p. 595.
- Telegraphy. T. B. Dixon. No. 922,462; May 25; Sp. p. 4859; Gaz. vol. 142; p. 868.
- Telegraphy. J. F. Richardson. No. 938,337; Oct. 26; Sp. p. 5742; Gaz. vol. 147; p. 977.
- Telegraphy and telephony, Receiver for wireless. S. Eisenstein. No. 931,586; Aug. 17; Sp. p. 4109; Gaz. vol. 145; p. 707.
- Telegraphy, Antenna for wireless. H. E. Athearn. No. 918,255; Apr. 13; Sp. p. 2639; Gaz. vol. 141; p. 468.
- Telegraphy, Apparatus for wireless. G. Marconi. No. 935,382; Sept. 28; Sp. p. 4844; Gaz. vol. 146; p. 856.
- Telegraphy, Apparatus for wireless. G. Marconi. No. 935,383; Sept. 28; Sp. p. 4845; Gaz. vol. 146; p. 856.
- Telegraphy detecting device, Wireless. R. A. Fessenden. No. 917,574; Apr. 6; Sp. p. 1194; Gaz. vol. 141; p. 209.
- Telegraphy, Duplex cable. I. Kitsee. No. 942,208; Dec. 7; Sp. p. 386; Gaz. vol. 149; p. 59.
- Telegraphy, Electric. J. A. L. Dearlove. No. 942,620; Dec. 7; Sp. p. 1228; Gaz. vol. 149; p. 200.
- Telegraphy, Instrument, Combination wireless. J. E. Ostrander. No. 916,483; Mar. 30; Sp. p. 5741; Gaz. vol. 140; p. 1036.
- Telegraphy, Mast for space or wireless. A. E. Brown. No. 921,075; May 11; Sp. p. 2010; Gaz. vol. 142; p. 353.
- Telegraphy, Radio. H. R. von Traubenberg. No. 912,209; Feb. 9; Sp. p. 2401; Gaz. vol. 139; p. 414.
- Telegraphy, Receiver for space. W. Schloemilch. No. 936,258; Oct. 5; Sp. p. 1352; Gaz. vol. 147; p. 208.
- Telegraphy, Space. S. Cabot. No. 908,742; Jan. 5; Sp. p. 666; Gaz. vol. 138; p. 103.
- Telegraphy, Space. J. S. Stone. No. 908,815; Jan. 5; Sp. p. 796; Gaz. vol. 138; p. 125.
- Telegraphy, Space. L. de Forest. No. 913,718; Mar. 2; Sp. p. 86; Gaz. vol. 140; p. 16.
- Telegraphy, Space. J. S. Stone. No. 916,595; Mar. 30; Sp. p. 6524; Gaz. vol. 140; p. 1166.
- Telegraphy, Space. L. De Forest. No. 926,936; July 6; Sp. p. 476; Gaz. vol. 144; p. 77.
- Telegraphy, Space. S. Cabot. No. 937,281; Oct. 19; Sp. p. 3503; Gaz. vol. 147; p. 606.
- Telegraphy, Space. S. Cabot. No. 937,282; Oct. 19; Sp. p. 3507; Gaz. vol. 147; p. 606.
- Telegraphy, Space. L. De Forest. No. 943,969; Dec. 21; Sp. p. 4159; Gaz. vol. 149; p. 720.
- Telegraphy, System of. R. L. Dean. No. 920,833; May 4; Sp. p. 1493; Gaz. vol. 142; p. 242.



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- Telegraphy, Transmitting apparatus for wireless. G. Marconi. No. 935,381; Sept. 28; Sp. p. 4841; Gaz. vol. 146; p. 856.
- Telegraphy, Tuner for wireless. H. Dunwoody. No. 934,296; Sept. 14; Sp. p. 2685; Gaz. vol. 146; p. 446.
- Telegraphy, Wireless. J. Murgas. No. 915,993; Mar. 23; Sp. p. 4801; Gaz. vol. 140; p. 848.
- Telegraphy, Wireless. J. Murgas. No. 917,103; Apr. 6; Sp. p. 284; Gaz. vol. 141; p. 52.
- Telegraphy, Wireless. G. W. Pierce. No. 923,699; June 1; Sp. p. 1289; Gaz. vol. 143; p. 201.
- Telegraphy, Wireless. R. A. Fessenden. No. 923,962; June 8; Sp. p. 1903; Gaz. vol. 143; p. 318.
- Telegraphy, Wireless. R. A. Fessenden. No. 923,963; June 8; Sp. p. 1904; Gaz. vol. 143; p. 318.
- Telegraphy, Wireless. L. De Forest. No. 926,933; July 6; Sp. p. 477; Gaz. vol. 144; p. 76.
- Telegraphy, Wireless. J. H. Cuntz. No. 927,641; July 13; Sp. p. 1947; Gaz. vol. 144; p. 341.
- Telegraphy, Wireless. S. G. Brown. No. 934,883; Sept. 21; Sp. p. 3832; Gaz. vol. 146; p. 665.
- Telegraphy, Wireless. W. W. Massie. No. 935,386; Sept. 28; Sp. p. 4851; Gaz. vol. 146; p. 858.
- Telemeter. H. Wild. No. 939,366; Nov. 9; Sp. p. 2030; Gaz. vol. 148; p. 343.
- Telemeter. O. Eppenstein. No. 943,109; Dec. 14; Sp. p. 2340; Gaz. vol. 149; p. 397.
- Telemeter, Coincidence. O. Eppenstein. No. 940,137; Nov. 16; Sp. p. 3746; Gaz. vol. 148; p. 639.
- Telemeter for two successive observations. C. Pulfrich. No. 941,812; Nov. 30; Sp. p. 7410; Gaz. vol. 148; p. 1246.
- Telemeter-rod. C. E. Flanagan. No. 939,489; Nov. 9; Sp. p. 2314; Gaz. vol. 148; p. 383.
- Telemeter, Separating-prism. A. König. No. 940,166; Nov. 16; Sp. p. 3516; Gaz. vol. 148; p. 648.
- Telemeter, Stereoscopic. C. von Hofe. No. 914,838; Mar. 9; Sp. p. 2493; Gaz. vol. 140; p. 416.
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- Telemeters, Ocular prism for base-line. H. Jacob. No. 934,440; Sept. 21; Sp. p. 2971; Gaz. vol. 146; p. 598.
- Telemotor apparatus. W. G. Gibbons. No. 930,955; Aug. 10; Sp. p. 2755; Gaz. vol. 145; p. 469.
- Teletobjective. E. Wandersleb. No. 943,105; Dec. 14; Sp. p. 2331; Gaz. vol. 149; p. 396.
- Telephone. O. Frazier. No. 911,714; Feb. 9; Sp. p. 1379; Gaz. vol. 139; p. 256.
- Telephone. A. G. Kaufman and L. J. Lippmann. No. 921,119; May 11; Sp. p. 2091; Gaz. vol. 142; p. 368.
- Telephone. E. Koehler. No. 922,001; May 18; Sp. p. 3943; Gaz. vol. 142; p. 689.
- Telephone. H. Eccles. No. 936,432; Oct. 12; Sp. p. 1766; Gaz. vol. 147; p. 293.
- Telephone. F. G. Sargent. No. 940,284; Nov. 16; Sp. p. 4071; Gaz. vol. 148; p. 690.
- Telephone and protective alarm system, Combined. J. G. Nolen. No. 944,575; Dec. 28; Sp. p. 5495; Gaz. vol. 149; p. 953.
- Telephone and telegraph cables and other electrical conductors, Suspension device for. E. C. Read. No. 940,555; Nov. 16; Sp. p. 4693; Gaz. vol. 148; p. 781.
- Telephone and telegraph transmitting apparatus. H. Shoemaker. No. 932,821; Aug. 31; Sp. p. 6767; Gaz. vol. 145; p. 1160.
- Telephone antiseptic mouthpiece. J. M. Hafl. No. 932,545; Aug. 31; Sp. p. 6166; Gaz. vol. 145; p. 1069.
- Telephone apparatus. C. H. Viggars and E. H. Stolz. No. 911,531; Feb. 2; Sp. p. 970; Gaz. vol. 139; p. 169.
- Telephone apparatus. F. S. Weyts. No. 915,518; Mar. 16; Sp. p. 3819; Gaz. vol. 140; p. 664.
- Telephone apparatus. C. Adams-Randall. No. 919,113; Apr. 20; Sp. p. 4450; Gaz. vol. 141; p. 777.
- Telephone apparatus. C. E. Bilton. No. 919,812; Apr. 27; Sp. p. 6141; Gaz. vol. 141; p. 1047.
- Telephone apparatus. J. L. Creveling. No. 920,277; May 4; Sp. p. 407; Gaz. vol. 142; p. 62.
- Telephone apparatus. W. H. Taylor. No. 923,603; June 1; Sp. p. 1108; Gaz. vol. 143; p. 169.
- Telephone apparatus. K. M. Turner and H. W. Hafl. No. 933,404; Sept. 7; Sp. p. 832; Gaz. vol. 146; p. 129.
- Telephone apparatus, Coin-freed locking device for. H. Janke. No. 935,515; Sept. 28; Sp. p. 5120; Gaz. vol. 146; p. 900.
- Telephone appliance. M. F. Flack. No. 923,637; June 1; Sp. p. 1170; Gaz. vol. 143; p. 180.
- Telephone attachment. N. B. Parsons and A. Beutler. No. 908,490; Jan. 5; Sp. p. 110; Gaz. vol. 138; p. 21.
- Telephone attachment. J. C. Fox. No. 910,189; Jan. 19; Sp. p. 3550; Gaz. vol. 138; p. 646.
- Telephone attachment. A. W. Lyda and E. C. Robinson. No. 912,701; Feb. 16; Sp. p. 3480; Gaz. vol. 139; p. 620.
- Telephone attachment. R. E. Pedigo. No. 923,882; June 8; Sp. p. 1751; Gaz. vol. 143; p. 292.
- Telephone attachment. H. F. Hansell, Jr. No. 929,128; July 27; Sp. p. 5026; Gaz. vol. 144; p. 894.
- Telephone attachment. B. B. Detrick. No. 929,404; July 27; Sp. p. 5623; Gaz. vol. 144; p. 986.
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- Telephone attachment. N. B. Parsons. No. 936,254; Oct. 5; Sp. p. 1344; Gaz. vol. 147; p. 207.
- Telephone attachment. H. R. Palmer. No. 939,439; Nov. 9; Sp. p. 2213; Gaz. vol. 148; p. 368.
- Telephone attachment. J. W. Nilsson. No. 940,047; Nov. 16; Sp. p. 3543; Gaz. vol. 148; p. 606.
- Telephone attachment. C. B. Mitchell. No. 941,086; Nov. 23; Sp. p. 5526; Gaz. vol. 148; p. 983.
- Telephone-box. W. M. Bruce, Jr. No. 944,412; Dec. 28; Sp. p. 5111; Gaz. vol. 149; p. 897.
- Telephone-cabinet. A. Larsson. No. 928,989; July 27; Sp. p. 4731; Gaz. vol. 144; p. 848.
- Telephone-cabinet. C. E. Oxford. No. 941,336; Nov. 23; Sp. p. 6358; Gaz. vol. 148; p. 1064.
- Telephone-cables, Distributing-terminal for. F. J. Beaucond. No. 923,933; June 8; Sp. p. 1843; Gaz. vol. 143; p. 307.
- Telephone call mechanism. W. E. Zabst. No. 913,607; Feb. 23; Sp. p. 5342; Gaz. vol. 139; p. 945.
- Telephone-call-recording device. G. R. Fawkes. No. 940,140; Nov. 16; Sp. p. 3753; Gaz. vol. 148; p. 639.
- Telephone-call-recording machine. H. Fascher. No. 915,578; Mar. 16; Sp. p. 3961; Gaz. vol. 140; p. 684.
- Telephone-call-registering system. W. J. Klbb. No. 943,081; Dec. 14; Sp. p. 2285; Gaz. vol. 149; p. 387.
- Telephone-circuit supply system. J. L. Hall. No. 925,093; June 15; Sp. p. 4265; Gaz. vol. 143; p. 727.
- Telephone-circuits, Means for reducing the reactance of electromagnetic devices for. W. K. Howe. No. 934,811; Sept. 21; Sp. p. 3690; Gaz. vol. 146; p. 641.
- Telephone coin-box. C. S. Ellis. No. 928,188; July 13; Sp. p. 3073; Gaz. vol. 144; p. 523.
- Telephone coin-box. F. D. Powell. No. 929,629; July 27; Sp. p. 6044; Gaz. vol. 144; p. 1058.
- Telephone-connecting apparatus. E. C. Molina. No. 926,994; July 6; Sp. p. 587; Gaz. vol. 144; p. 97.
- Telephone-connector, Intermediate. C. A. Hearn and W. H. Feddejoehann. No. 941,519; Nov. 30; Sp. p. 6778; Gaz. vol. 148; p. 1148.
- Telephone constructions, Wall distributing-ring for. J. H. Wilson. No. 934,255; Sept. 14; Sp. p. 2616; Gaz. vol. 146; p. 433.
- Telephone-cord protector. E. T. Baner. No. 912,778; Feb. 16; Sp. p. 3680; Gaz. vol. 139; p. 647.
- Telephone-currents, Method of and apparatus for repeating. P. A. Campbell. No. 942,885; Dec. 14; Sp. p. 1813; Gaz. vol. 149; p. 320.
- Telephone cut-out and lightning-arrester. W. E. Ashby. No. 919,519; Apr. 27; Sp. p. 5517; Gaz. vol. 141; p. 948.
- Telephone, Desk-. E. R. Corwin and C. A. Bals. No. 911,866; Feb. 9; Sp. p. 1639; Gaz. vol. 139; p. 304.
- Telephone, Desk-. E. R. Corwin and C. A. Bals. No. 941,762; Nov. 30; Sp. p. 7298; Gaz. vol. 148; p. 1229.
- Telephone desk set. C. D. Enochs. No. 943,773; Dec. 21; Sp. p. 3747; Gaz. vol. 149; p. 652.
- Telephone desk-stand. J. A. Birsfield. No. 931,179; Aug. 17; Sp. p. 3280; Gaz. vol. 145; p. 572.
- Telephone detector device. T. W. Ralph. No. 940,359; Nov. 16; Sp. p. 4242; Gaz. vol. 148; p. 715.
- Telephone-dial, Illuminated. R. B. Hallock. No. 943,305; Dec. 14; Sp. p. 2736; Gaz. vol. 149; p. 462.
- Telephone-directory index attachment. E. F. Morton. No. 909,641; Jan. 12; Sp. p. 2434; Gaz. vol. 138; p. 432.
- Telephone-disinfecting attachment. R. B. and L. Adams. No. 944,066; Dec. 21; Sp. p. 4372; Gaz. vol. 149; p. 753.
- Telephone-disinfecter. M. A. Dohney. No. 914,395; Mar. 9; Sp. p. 1585; Gaz. vol. 140; p. 269.
- Telephone divided multiple-switchboard system. W. Aitken. No. 927,470; July 13; Sp. p. 1573; Gaz. vol. 144; p. 283.
- Telephone-exchange. C. A. Anderson and W. Hagstrom. No. 938,943; Nov. 2; Sp. p. 1077; Gaz. vol. 148; p. 171.
- Telephone-exchange calling device. C. A. Anderson and W. Hagstrom. No. 938,944; Nov. 2; Sp. p. 1082; Gaz. vol. 148; p. 172.
- Telephone-exchange details, Call-distributing. S. H. Browne. No. 913,613; Feb. 23; Sp. p. 5359; Gaz. vol. 139; p. 948.
- Telephone-exchange selector, Automatic. F. H. Loveridge. No. 931,072; Aug. 17; Sp. p. 3058; Gaz. vol. 145; p. 536.
- Telephone-exchange switchboard apparatus. J. L. McQuarrie. No. 931,330; Aug. 17; Sp. p. 3619; Gaz. vol. 145; p. 624.
- Telephone-exchange system. W. A. Wynne. No. 911,798; Feb. 9; Sp. p. 1515; Gaz. vol. 139; p. 283.
- Telephone-exchange system. G. Babeock. No. 913,451; Feb. 23; Sp. p. 5002; Gaz. vol. 139; p. 894.
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- Telephone-exchange system. H. G. Webster. No. 921,187; May 11; Sp. p. 2227; Gaz. vol. 142; p. 392.
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- Telephone-exchange system. W. A. Fricke. No. 925,573; June 22; Sp. p. 5176; Gaz. vol. 143; p. 912.
- Telephone-exchange system. H. G. Webster. No. 930,512; Aug. 10; Sp. p. 1794; Gaz. vol. 145; p. 322.
- Telephone-exchange system. H. G. Webster. No. 930,513; Aug. 10; Sp. p. 1802; Gaz. vol. 145; p. 323.
- Telephone-exchange system. H. G. Webster. No. 930,514; Aug. 10; Sp. p. 1814; Gaz. vol. 145; p. 324.
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- Telephone-exchange system. H. G. Webster. No. 930,517; Aug. 10; Sp. p. 1831; Gaz. vol. 145; p. 325.
- Telephone-exchange system. H. G. Webster. No. 930,519; Aug. 10; Sp. p. 1844; Gaz. vol. 145; p. 326.
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- Telephone-exchange system. C. L. Zahm. No. 938,541; Nov. 2; Sp. p. 226; Gaz. vol. 148; p. 33.
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- Telephone-exchange system, Automatic. J. W. Lattig and C. L. Goodrum. No. 920,350; May 4; Sp. p. 527; Gaz. vol. 142; p. 84.
- Telephone-exchange system, Call-distributing. S. H. Browne. No. 920,259; May 4; Sp. p. 354; Gaz. vol. 142; p. 55.
- Telephone-exchange system, Call-distributing. S. H. Browne. No. 927,025; July 6; Sp. p. 670; Gaz. vol. 144; p. 109.
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- Telephone-exchanges, Automatic ringing-circuit and apparatus for. R. H. Manson. No. 926,950; July 6; Sp. p. 509; Gaz. vol. 144; p. 83.
- Telephone-exchanges, Calling device for. N. E. Norstrom. No. 935,049; Sept. 28; Sp. p. 4169; Gaz. vol. 146; p. 747.
- Telephone-exchanges, Means for counting conversations at. J. H. Meyer. No. 921,429; May 11; Sp. p. 2748; Gaz. vol. 142; p. 473.
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- Telephone-exchanges, Toll apparatus for. S. J. Larned. No. 926,199; June 29; Sp. p. 6531; Gaz. vol. 143; p. 1155.
- Telephone-extension-call. A. R. Marcotte. No. 929,965; Aug. 3; Sp. p. 724; Gaz. vol. 145; p. 115.
- Telephone-hood. H. L. Burrhus. No. 908,444; Jan. 5; Sp. p. 21; Gaz. vol. 138; p. 5.
- Telephone-instrument mounting. H. E. Shreeve. No. 931,231; Aug. 17; Sp. p. 3407; Gaz. vol. 145; p. 591.
- Telephone instrument, Subscriber's-. A. H. Weiss. No. 916,235; Mar. 23; Sp. p. 5249; Gaz. vol. 140; p. 927.
- Telephone, Intercommunicating. H. C. Thomson. No. 911,181; Feb. 2; Sp. p. 305; Gaz. vol. 139; p. 54.
- Telephone-jack. A. L. Sohm. No. 926,831; July 6; Sp. p. 266; Gaz. vol. 144; p. 42.
- Telephone-jack-box. J. B. Taylor and W. S. Bralley. No. 919,354; Apr. 27; Sp. p. 5227; Gaz. vol. 141; p. 905.
- Telephone-key. J. L. McQuarrie. No. 931,931; Aug. 17; Sp. p. 3622; Gaz. vol. 145; p. 625.
- Telephone-key and means for actuating the same. W. Christensen. No. 940,673; Nov. 23; Sp. p. 4939; Gaz. vol. 148; p. 845.
- Telephone-line, Four-party. K. Weman. No. 937,899; Oct. 19; Sp. p. 3758; Gaz. vol. 147; p. 643.
- Telephone-line selective switch device. J. H. Swanson. No. 941,743; Nov. 30; Sp. p. 7246; Gaz. vol. 148; p. 1222.
- Telephone-line-testing system. C. S. Winston. No. 913,795; Mar. 2; Sp. p. 251; Gaz. vol. 140; p. 42.
- Telephone-line-testing system. W. W. Dean. No. 916,117; Mar. 23; Sp. p. 5022; Gaz. vol. 140; p. 890.
- Telephone-line-testing system. A. N. Chenoweth. No. 938,974; Nov. 2; Sp. p. 1131; Gaz. vol. 148; p. 182.
- Telephone-lines, Means for disconnecting. M. Bowman. No. 925,420; June 15; Sp. p. 4864; Gaz. vol. 143; p. 832.
- Telephone lock-out, Party-line-. W. F. Wagner and W. E. Shiels. No. 914,468; Mar. 9; Sp. p. 1716; Gaz. vol. 140; p. 295.
- Telephone metering system. R. M. Eaton. No. 928,115; July 13; Sp. p. 2910; Gaz. vol. 144; p. 497.
- Telephone-mouthpiece. W. Gibson. No. 913,947; Mar. 2; Sp. p. 604; Gaz. vol. 140; p. 96.
- Telephone-mouthpiece. G. H. Reed. No. 932,323; Aug. 24; Sp. p. 5702; Gaz. vol. 145; p. 973.
- Telephone-mouthpiece. E. H. Long. No. 943,946; Dec. 21; Sp. p. 4116; Gaz. vol. 149; p. 713.
- Telephone-mouthpiece. Antiseptic. G. Rowlands. No. 941,173; Nov. 23; Sp. p. 6025; Gaz. vol. 148; p. 1012.
- Telephone-mouthpiece guard. L. H. Webster. No. 935,618; Sept. 28; Sp. p. 5329; Gaz. vol. 146; p. 935.
- Telephone party-line switching apparatus. A. J. Farmer. No. 920,043; Apr. 27; Sp. p. 6698; Gaz. vol. 141; p. 1123.
- Telephone pay-station. G. A. Long. No. 917,742; Apr. 6; Sp. p. 1517; Gaz. vol. 141; p. 266.
- Telephone pay-station. T. H. Roland. No. 922,045; May 18; Sp. p. 4025; Gaz. vol. 142; p. 703.
- Telephone pay-station, Automatic. F. X. Bee. No. 938,949; Nov. 2; Sp. p. 1093; Gaz. vol. 148; p. 173.
- Telephone-pole. E. J. Newhall. No. 915,305; Mar. 16; Sp. p. 3408; Gaz. vol. 140; p. 595.
- Telephone, Portable. O. L. Mulot. No. 942,401; Dec. 7; Sp. p. 773; Gaz. vol. 149; p. 125.
- Telephone-receiver. J. T. Curtis. No. 908,846; Jan. 5; Sp. p. 862; Gaz. vol. 138; p. 136.
- Telephone-receiver. H. R. Stuart. No. 910,244; Jan. 19; Sp. p. 3673; Gaz. vol. 138; p. 668.
- Telephone-receiver. A. Stromberg. No. 910,603; Jan. 26; Sp. p. 4471; Gaz. vol. 138; p. 815.
- Telephone-receiver. H. W. Sullivan. No. 911,178; Feb. 2; Sp. p. 301; Gaz. vol. 139; p. 54.
- Telephone-receiver. W. E. Peters. No. 911,438; Feb. 2; Sp. p. 795; Gaz. vol. 139; p. 139.
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- Telephone-receiver. A. Rector. No. 915,625; Mar. 16; Sp. p. 4062; Gaz. vol. 140; p. 701.
- Telephone-receiver support. R. S. Griffith. No. 910,918; Jan. 26; Sp. p. 5074; Gaz. vol. 138; p. 914.
- Telephone-receiver support. W. J. Mogridge. No. 943,033; Dec. 14; Sp. p. 2168; Gaz. vol. 149; p. 371.
- Telephone-register. W. O. Weissich. No. 919,662; Apr. 27; Sp. p. 5812; Gaz. vol. 141; p. 997.
- Telephone registers, Locking and signaling system for. A. S. Spiegel. No. 938,026; Oct. 26; Sp. p. 5061; Gaz. vol. 147; p. 870.
- Telephone registering mechanism. W. D. Greene and K. W. Fort. No. 914,715; Mar. 9; Sp. p. 2235; Gaz. vol. 140; p. 375.
- Telephone-repeater. M. R. Gilson. No. 930,854; Aug. 10; Sp. p. 2530; Gaz. vol. 145; p. 437.
- Telephone repeater apparatus. N. G. Wartin. No. 937,901; Oct. 26; Sp. p. 4793; Gaz. vol. 147; p. 829.
- Telephone repeating apparatus and circuit. J. J. Skidmore. No. 912,908; Feb. 16; Sp. p. 3897; Gaz. vol. 139; p. 686.
- Telephone repeating system. H. E. Shreeve. No. 937,189; Oct. 19; Sp. p. 3308; Gaz. vol. 147; p. 575.
- Telephone-ringer. J. A. Birsfield. No. 924,030; June 8; Sp. p. 2037; Gaz. vol. 143; p. 338.
- Telephone-ringer. N. F. Jensen. No. 935,792; Oct. 5; Sp. p. 399; Gaz. vol. 147; p. 59.
- Telephone ringing system for party-lines. C. A. Simpson. No. 910,873; Jan. 26; Sp. p. 4989; Gaz. vol. 138; p. 900.
- Telephone sanitary shield. O. H. Huden. No. 910,383; Jan. 19; Sp. p. 3988; Gaz. vol. 138; p. 716.
- Telephone service, Apparatus and system for measuring. D. S. Hulfish. No. 930,547; Aug. 10; Sp. p. 1901; Gaz. vol. 145; p. 336.
- Telephone service, Apparatus and system for measuring. S. H. Browne. No. 938,039; Oct. 26; Sp. p. 5056; Gaz. vol. 147; p. 875.
- Telephone-service rent-collecting means. R. Yearneau. No. 910,628; Jan. 26; Sp. p. 4514; Gaz. vol. 138; p. 823.
- Telephone-service rent-collecting means. R. Yearneau. No. 931,547; Aug. 17; Sp. p. 4035; Gaz. vol. 145; p. 695.
- Telephone set, Substation. R. Hansen. No. 916,552; Mar. 30; Sp. p. 5904; Gaz. vol. 140; p. 1059.
- Telephone slug-holder. M. J. Stark, Jr. No. 930,100; Aug. 3; Sp. p. 1012; Gaz. vol. 145; p. 163.
- Telephone-stand. C. R. Schafer. No. 929,025; July 27; Sp. p. 4808; Gaz. vol. 144; p. 860.
- Telephone-stand. C. S. Coom. No. 933,824; Sept. 14; Sp. p. 1755; Gaz. vol. 146; p. 291.
- Telephone-stand. E. A. Metcalf. No. 936,009; Oct. 5; Sp. p. 862; Gaz. vol. 147; p. 130.
- Telephone supervisory system. W. S. Paca. No. 933,335; Sept. 7; Sp. p. 684; Gaz. vol. 146; p. 106.
- Telephone-switchboard attachment. H. S. Janes. No. 916,710; Mar. 30; Sp. p. 6190; Gaz. vol. 140; p. 1109.
- Telephone-switchboard cable. W. L. Runzel. No. 919,384; Apr. 27; Sp. p. 5201; Gaz. vol. 141; p. 902.
- Telephone-switchboard clear-out system. K. Weman and T. S. Hemenway. No. 919,409; Apr. 27; Sp. p. 5253; Gaz. vol. 141; p. 910.
- Telephone-switchboard connecting-jack. C. H. Smith. No. 911,338; Feb. 2; Sp. p. 617; Gaz. vol. 139; p. 106.
- Telephone-switchboards, Self-restoring clear-out drop for. C. D. Enoch. No. 921,384; May 11; Sp. p. 2664; Gaz. vol. 142; p. 458.
- Telephone-switchboards, Wiring. C. S. Winston. No. 937,909; Oct. 26; Sp. p. 4814; Gaz. vol. 147; p. 832.
- Telephone system. W. W. Dean. No. 912,822; Feb. 16; Sp. p. 3753; Gaz. vol. 139; p. 661.
- Telephone system. F. W. Wood. No. 914,690; Mar. 9; Sp. p. 2185; Gaz. vol. 140; p. 367.
- Telephone system. R. H. Manson. (Reissue.) No. 12,929; Mar. 23; Sp. p. 5560; Gaz. vol. 140; p. 985.
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- Telephone system. H. G. Webster. No. 921,318; May 11; Sp. p. 2506; Gaz. vol. 142; p. 435.
- Telephone system. H. G. Webster. No. 921,321; May 11; Sp. p. 2517; Gaz. vol. 142; p. 437.
- Telephone system. A. H. Dyson. No. 923,035; May 25; Sp. p. 6052; Gaz. vol. 142; p. 1054.
- Telephone system. E. E. Yaxley. No. 924,714; June 15; Sp. p. 3481; Gaz. vol. 143; p. 599.
- Telephone system. J. M. Latimer. No. 927,414; July 6; Sp. p. 1424; Gaz. vol. 144; p. 237.
- Telephone system. M. Baumer. No. 928,171; July 13; Sp. p. 3024; Gaz. vol. 144; p. 516.
- Telephone system. D. W. May. No. 928,680; July 20; Sp. p. 4114; Gaz. vol. 144; p. 717.
- Telephone system. H. G. Webster. No. 930,516; Aug. 10; Sp. p. 1823; Gaz. vol. 145; p. 325.
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- Telephone system. H. G. Webster. No. 930,520; Aug. 10; Sp. p. 1849; Gaz. vol. 145; p. 327.
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- Telephone system. E. R. Brodton. No. 933,018; Aug. 31; Sp. p. 7125; Gaz. vol. 145; p. 1224.
- Telephone system. C. S. Winston. No. 933,150; Sept. 7; Sp. p. 229; Gaz. vol. 146; p. 39.
- Telephone system. F. C. Unger. No. 936,495; Oct. 12; Sp. p. 1899; Gaz. vol. 147; p. 314.
- Telephone system. H. F. Clausen. No. 937,050; Oct. 19; Sp. p. 3012; Gaz. vol. 147; p. 529.
- Telephone system. O. M. Leich. No. 938,154; Oct. 26; Sp. p. 5356; Gaz. vol. 147; p. 914.
- Telephone system. F. E. Summers. No. 939,756; Nov. 9; Sp. p. 2900; Gaz. vol. 148; p. 476.
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 Telephone system and the like. R. Hamilton. No. 935,105; Sept. 28; Sp. p. 4297; Gaz. vol. 146; p. 768.  
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 Telephone system, Private branch intercommunicating. J. L. McQuarrie. No. 931,138; Aug. 17; Sp. p. 3192; Gaz. vol. 145; p. 558.  
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 Telescope-lens adapter. A. C. Young. No. 910,344; Jan. 19; Sp. p. 3911; Gaz. vol. 138; p. 703.  
 Telescope-level. H. Wild. No. 921,773; May 18; Sp. p. 3465; Gaz. vol. 142; p. 616.  
 Telescope-mounting. F. L. Smith. No. 928,555; July 20; Sp. p. 3852; Gaz. vol. 144; p. 675.  
 Telescope mounting, Rifle-. F. L. Smith. No. 911,621; Feb. 9; Sp. p. 1183; Gaz. vol. 139; p. 224.  
 Telescope or field-glass. S. Widmar. No. 937,351; Oct. 19; Sp. p. 3647; Gaz. vol. 147; p. 627.  
 Telescope, Prism-. C. S. Hastings. No. 918,147; Apr. 13; Sp. p. 2410; Gaz. vol. 141; p. 432.  
 Telescope sighting attachment, Transit-. G. N. Saegmüller. No. 914,754; Mar. 9; Sp. p. 2324; Gaz. vol. 140; p. 389.  
 Telescope, Terrestrial. G. A. H. Kellner. No. 936,541; Oct. 12; Sp. p. 1995; Gaz. vol. 147; p. 328.  
 Telescope with double hinge, Binocular. R. Straubel. No. 911,776; Feb. 9; Sp. p. 1477; Gaz. vol. 139; p. 275.  
 Telescopes, Focusing-cap for. H. C. Mustin. No. 924,488; June 8; Sp. p. 2997; Gaz. vol. 143; p. 490.  
 Telescopic article. W. J. Dunn. No. 942,490; Dec. 7; Sp. p. 969; Gaz. vol. 149; p. 156.  
 Telescoping elevator, Portable. S. B. Minnich. No. 937,256; Oct. 19; Sp. p. 3462; Gaz. vol. 147; p. 598.  
 Tellurian. L. H. Van Syckle. No. 913,074; Feb. 23; Sp. p. 4234; Gaz. vol. 139; p. 767.  
 Tellurian. G. T. Huff. No. 921,706; May 18; Sp. p. 3325; Gaz. vol. 142; p. 592.  
 Tellurian. D. F. Nickols. No. 940,546; Nov. 16; Sp. p. 4677; Gaz. vol. 148; p. 778.  
 Telpher system. B. W. Harris. No. 925,179; June 15; Sp. p. 4430; Gaz. vol. 143; p. 756.  
 Telpher system. B. T. Hitch. No. 933,564; Sept. 7; Sp. p. 1234; Gaz. vol. 146; p. 181.  
 Telpherage system. O. J. Davy and C. W. Dauber. No. 937,581; Oct. 19; Sp. p. 4143; Gaz. vol. 147; p. 706.  
 Telpherage system. H. Müller. No. 941,938; Nov. 30; Sp. p. 7665; Gaz. vol. 148; p. 1291.  
 Temperature-annunciator. N. D. Wyman. No. 913,180; Feb. 23; Sp. p. 4448; Gaz. vol. 139; p. 802.  
 Temperature-controlling device. W. B. D. Penniman. No. 933,577; Sept. 7; Sp. p. 1253; Gaz. vol. 146; p. 186.  
 Temperature-indicator, Automatic. W. E. Campbell. No. 934,281; Sept. 14; Sp. p. 2652; Gaz. vol. 146; p. 440.  
 Temperature-regulating apparatus. A. M. Butz. No. 910,269; Jan. 19; Sp. p. 3760; Gaz. vol. 138; p. 677.



*Alphabetical list of inventions—Continued.*

- Temperature-regulating apparatus. J. M. Pullen. No. 939,858; Nov. 9; Sp. p. 3094; Gaz. vol. 148; p. 511.  
 Temperature-regulating device. W. W. Curtis. No. 912,293; Feb. 16; Sp. p. 2618; Gaz. vol. 139; p. 481.  
 Temperature-regulating system. C. D. Knight and W. O. Lum. No. 932,711; Aug. 31; Sp. p. 6528; Gaz. vol. 145; p. 1125.  
 Temperature-regulator. A. Beler. No. 917,704; Apr. 6; Sp. p. 1444; Gaz. vol. 141; p. 253.  
 Temperature-regulator. H. Sandvoss. No. 934,632; Sept. 21; Sp. p. 3352; Gaz. vol. 146; p. 583.  
 Temperature-regulator, Thermostatic. W. J. Ruff. No. 920,833; May 4; Sp. p. 1617; Gaz. vol. 142; p. 258.  
 Tempering apparatus. J. G. Matthews. No. 908,590; Jan. 5; Sp. p. 337; Gaz. vol. 138; p. 55.  
 Tempering-furnace, Electric. V. Royle. No. 924,109; June 8; Sp. p. 2169; Gaz. vol. 143; p. 362.  
 Tempering-furnace, Electric. V. and V. E. Royle. No. 943,272; Dec. 14; Sp. p. 2664; Gaz. vol. 149; p. 451.  
 Templet. W. C. West. No. 930,637; Aug. 10; Sp. p. 2092; Gaz. vol. 145; p. 365.  
 Templet, Cross-section. H. Z. Osborne, Jr. No. 944,462; Dec. 28; Sp. p. 5222; Gaz. vol. 149; p. 914.  
 Templet for infolding-machines for collars, cuffs, &c. G. J. Dormandy. No. 918,023; Apr. 13; Sp. p. 2161; Gaz. vol. 141; p. 389.  
 Tennis apparatus. G. W. Senn. No. 927,179; July 6; Sp. p. 994; Gaz. vol. 144; p. 161.  
 Tennis-court marker. H. M. Bangert and J. A. Oakley. No. 922,074; May 18; Sp. p. 4076; Gaz. vol. 142; p. 713.  
 Tennis-court marker. A. Johnson. No. 929,597; July 27; Sp. p. 5964; Gaz. vol. 144; p. 1047.  
 Tenoning and boring machine, Combination. A. E. Root. No. 922,338; May 18; Sp. p. 4593; Gaz. vol. 142; p. 798.  
 Tenpin-spotting machine. F. W. Coffin. No. 930,353; Aug. 10; Sp. p. 1472; Gaz. vol. 145; p. 269.  
 Tension device. E. Belcher. No. 913,680; Mar. 2; Sp. p. 5; Gaz. vol. 140; p. 3.  
 Tension device. G. N. Williams, Jr., and J. Tinlin. No. 916,081; Mar. 23; Sp. p. 4955; Gaz. vol. 140; p. 878.  
 Tension mechanism. J. A. Groebli. No. 926,250; June 29; Sp. p. 6639; Gaz. vol. 143; p. 1171.  
 Tent. H. J. Saunders. No. 932,909; Aug. 31; Sp. p. 6916; Gaz. vol. 145; p. 1188.  
 Tent-bag, Combination. A. L. Strawn and F. C. Spencer. No. 921,751; May 18; Sp. p. 3410; Gaz. vol. 142; p. 607.  
 Tent, Folding. H. G. Hergelroth. No. 928,448; July 20; Sp. p. 3646; Gaz. vol. 144; p. 642.  
 Tent pin or anchor. J. F. Miles. No. 928,469; July 20; Sp. p. 3685; Gaz. vol. 144; p. 648.  
 Tent, Portable. A. F. Leach. No. 941,458; Nov. 30; Sp. p. 6651; Gaz. vol. 148; p. 1127.  
 Tent-support. E. C. Cook. No. 917,007; Apr. 6; Sp. p. 84; Gaz. vol. 141; p. 19.  
 Tent-window. W. E. Walsh. No. 922,067; May 18; Sp. p. 4061; Gaz. vol. 142; p. 710.  
 Tent-window. W. E. Walsh. No. 922,069; May 18; Sp. p. 4066; Gaz. vol. 142; p. 711.  
 Tent, Window-. W. E. Walsh. No. 922,068; May 18; Sp. p. 4063; Gaz. vol. 142; p. 710.  
 Tenter-frame. D. J. Tavenner. No. 918,220; Apr. 13; Sp. p. 2559; Gaz. vol. 141; p. 456.  
 Terminal-connector. W. C. Tregeon. No. 909,481; Jan. 12; Sp. p. 2119; Gaz. vol. 138; p. 376.  
 Terminal-connector construction. C. Cuno. No. 937,052; Oct. 19; Sp. p. 3017; Gaz. vol. 147; p. 530.  
 Terminal-look arrangement, Subway-. G. W. Jackson. No. 916,160; Mar. 23; Sp. p. 5107; Gaz. vol. 140; p. 903.  
 Terret-rod holder. E. Wesp. No. 910,334; Jan. 19; Sp. p. 3890; Gaz. vol. 138; p. 700.  
 Test-indicator. A. Montan. No. 910,708; Jan. 26; Sp. p. 4659; Gaz. vol. 138; p. 847.  
 Test-indicator. P. G. Wheeler. No. 937,978; Oct. 26; Sp. p. 4955; Gaz. vol. 147; p. 854.  
 Test-indicator. R. L. Smith. No. 943,282; Dec. 14; Sp. p. 2695; Gaz. vol. 149; p. 455.  
 Tester. H. L. Scott. No. 940,482; Nov. 16; Sp. p. 4524; Gaz. vol. 148; p. 757.  
 Testing apparatus. F. H. Stillman. No. 908,623; Jan. 5; Sp. p. 402; Gaz. vol. 138; p. 65.  
 Testing apparatus. F. Schreidt. No. 909,950; Jan. 19; Sp. p. 3062; Gaz. vol. 138; p. 567.  
 Testing apparatus. F. E. Ricketts. No. 920,652; May 4; Sp. p. 1128; Gaz. vol. 142; p. 183.  
 Testing-machine. A. H. Emery. No. 918,488; Apr. 13; Sp. p. 3095; Gaz. vol. 141; p. 543.  
 Testing-machine. W. W. Duncan. No. 919,140; Apr. 20; Sp. p. 4506; Gaz. vol. 141; p. 787.  
 Testing-machine. T. Y. Olsen. No. 925,131; June 15; Sp. p. 4338; Gaz. vol. 143; p. 740.  
 Tetrabromindigo and making same. W. Bauer and A. Herre. No. 937,041; Oct. 19; Sp. p. 2998; Gaz. vol. 147; p. 520.  
 Textile-conditioning apparatus. I. E. Palmer. No. 941,382; Nov. 30; Sp. p. 6477; Gaz. vol. 148; p. 1102.  
 Textile fabric. J. G. Elliott. No. 928,642; July 20; Sp. p. 4044; Gaz. vol. 144; p. 704.  
 Textile fabric. J. C. Brooks. No. 944,125; Dec. 21; Sp. p. 4504; Gaz. vol. 149; p. 773.  
 Textile fabrics, Apparatus for treating coated. A. Sydenham and J. Meade. No. 940,563; Nov. 16; Sp. p. 4706; Gaz. vol. 148; p. 784.  
 Textile fabrics, Schreiner finish of. P. M. Krals. No. 922,295; May 18; Sp. p. 4518; Gaz. vol. 142; p. 784.  
 Textile-machine traverse-bar movement. P. J. Dockray. No. 917,719; Apr. 6; Sp. p. 1474; Gaz. vol. 141; p. 258.  
 Textile machinery, Cloth-clamp for. T. W. France. No. 943,067; Dec. 14; Sp. p. 2259; Gaz. vol. 149; p. 383.  
 Textile-material-combing machine. C. Kröger. No. 915,194; Mar. 16; Sp. p. 3204; Gaz. vol. 140; p. 560.  
 Textile material, Guide for. I. E. Palmer. No. 932,315; Aug. 24; Sp. p. 5682; Gaz. vol. 145; p. 970.  
 Textile materials, Sizing. J. Boyeux. No. 934,034; Sept. 14; Sp. p. 2162; Gaz. vol. 146; p. 357.  
 Textile stock, Composition for dressing. E. Dath. No. 941,361; Nov. 30; Sp. p. 6429; Gaz. vol. 148; p. 1095.  
 Thawing device for frozen ground. W. T. Ross. No. 944,382; Dec. 28; Sp. p. 5035; Gaz. vol. 149; p. 886.  
 Thawing-machine, Steam. E. R. Bennett and M. I. Ekern. No. 930,131; Aug. 3; Sp. p. 1075; Gaz. vol. 145; p. 173.  
 Thawing-point. A. H. Hakes. No. 910,375; Jan. 19; Sp. p. 3971; Gaz. vol. 138; p. 713.  
 Theatrical apparatus. I. M. Weingarden and A. Cummings. No. 938,927; Nov. 2; Sp. p. 1051; Gaz. vol. 148; p. 166.  
 Theatrical appliance. R. Chandler and C. F. Autenrieth. No. 943,651; Dec. 21; Sp. p. 3516; Gaz. vol. 149; p. 612.  
 Theatrical effects, Means for producing. A. F. Sallé. No. 922,722; May 25; Sp. p. 5403; Gaz. vol. 142; p. 952.  
 Theobromin double salts. C. Mezger and A. Weller. No. 917,096; Apr. 6; Sp. p. 275; Gaz. vol. 141; p. 50.  
 Theodolite, &c. L. H. Cooke. No. 943,063; Dec. 14; Sp. p. 2251; Gaz. vol. 149; p. 382.  
 Theophyllin compound. R. Grüter. No. 919,161; Apr. 20; Sp. p. 4537; Gaz. vol. 141; p. 793.  
 Therapeutic device. S. T. Yount. No. 938,808; Nov. 2; Sp. p. 772; Gaz. vol. 148; p. 124.  
 Therapeutic instrument, Electric. C. W. Gaston. No. 932,775; Aug. 31; Sp. p. 6681; Gaz. vol. 145; p. 1147.  
 Therapeutic apparatus. A. H. Shoemaker. No. 911,528; Feb. 2; Sp. p. 965; Gaz. vol. 139; p. 168.  
 Thermal cut-out. F. D. Reynolds and J. Sachs. No. 926,962; July 6; Sp. p. 534; Gaz. vol. 144; p. 87.  
 Thermal cut-out, Rechargeable and non-interchangeable inclosed. T. A. Miller. No. 931,947; Aug. 24; Sp. p. 4940; Gaz. vol. 145; p. 847.  
 Thermal protector. S. B. Fowler. No. 937,062; Oct. 19; Sp. p. 3037; Gaz. vol. 147; p. 533.  
 Thermic controller. E. H. Richardson. No. 937,332; Oct. 19; Sp. p. 3597; Gaz. vol. 147; p. 621.  
 Thermo-electric control, Automatic. H. W. Leonard. No. 915,974; Mar. 23; Sp. p. 4764; Gaz. vol. 140; p. 843.  
 Thermo-electric generation. J. D. Taylor. No. 941,826; Nov. 30; Sp. p. 7442; Gaz. vol. 148; p. 1251.  
 Thermo-electric pile. A. Rittershausen. No. 911,446; Feb. 2; Sp. p. 805; Gaz. vol. 139; p. 140.  
 Thermo-expansion meter. C. D. Babcock. No. 926,536; June 29; Sp. p. 7159; Gaz. vol. 143; p. 1264.  
 Thermometer. H. W. Maurer. No. 925,120; June 15; Sp. p. 4320; Gaz. vol. 143; p. 736.  
 Thermometer. R. W. Mattox. No. 926,993; July 6; Sp. p. 585; Gaz. vol. 144; p. 96.  
 Thermometer. C. P. Steinmetz. No. 935,940; Oct. 5; Sp. p. 727; Gaz. vol. 147; p. 107.  
 Thermometer bulb-protector. A. Roesch. No. 924,276; June 8; Sp. p. 2581; Gaz. vol. 143; p. 420.  
 Thermometer-case. M. W. Reed. No. 918,472; Apr. 13; Sp. p. 3059; Gaz. vol. 141; p. 537.  
 Thermometer-case and instrument-holder. M. P. Hermann. No. 943,676; Dec. 21; Sp. p. 3558; Gaz. vol. 149; p. 620.  
 Thermometer, Oven-. L. S. White. No. 941,667; Nov. 30; Sp. p. 7080; Gaz. vol. 148; p. 1196.  
 Thermoplastic compound and making same. B. B. Goldsmith. No. 924,057; June 8; Sp. p. 2078; Gaz. vol. 143; p. 346.  
 Thermoplastic compound of blood or egg proteid. B. B. Goldsmith. No. 923,353; June 1; Sp. p. 565; Gaz. vol. 143; p. 81.  
 Thermoplastic keratin composition. B. B. Goldsmith. No. 922,692; May 25; Sp. p. 5345; Gaz. vol. 142; p. 943.  
 Thermostat. E. W. Comfort. No. 912,286; Feb. 16; Sp. p. 2505; Gaz. vol. 139; p. 478.  
 Thermostat. E. W. Comfort. No. 912,287; Feb. 16; Sp. p. 2600; Gaz. vol. 139; p. 479.  
 Thermostat. E. W. Comfort. No. 912,288; Feb. 16; Sp. p. 2604; Gaz. vol. 139; p. 479.  
 Thermostat. G. A. Moore. No. 914,859; Mar. 9; Sp. p. 2535; Gaz. vol. 140; p. 423.  
 Thermostat. J. H. Swan. No. 921,308; May 11; Sp. p. 2485; Gaz. vol. 142; p. 431.  
 Thermostat. W. Enterline. No. 929,081; July 27; Sp. p. 4924; Gaz. vol. 144; p. 877.  
 Thermostat. G. A. Weld. No. 934,116; Sept. 14; Sp. p. 2344; Gaz. vol. 146; p. 384.  
 Thermostat. J. H. Brady. No. 938,548; Nov. 2; Sp. p. 244; Gaz. vol. 148; p. 36.  
 Thermostat. H. G. Geissinger. No. 939,957; Nov. 3; Sp. p. 3312; Gaz. vol. 148; p. 546.  
 Thermostat. J. F. Williams. No. 942,870; Dec. 7; Sp. p. 1748; Gaz. vol. 149; p. 283.  
 Thermostat-controlled heater. J. F. Williams. No. 918,804; Apr. 20; Sp. p. 3825; Gaz. vol. 141; p. 677.  
 Thermostat-controller. J. McCartin. No. 924,095; June 8; Sp. p. 2144; Gaz. vol. 143; p. 358.  
 Thermostat, Electric. J. R. Carpenter. No. 935,460; Sept. 28; Sp. p. 4989; Gaz. vol. 146; p. 881.  
 Thermostatic instrument. C. S. Johnson. No. 912,573; Feb. 16; Sp. p. 3212; Gaz. vol. 139; p. 576.  
 Thermostatic motor. E. S. Halsey. No. 916,861; Mar. 30; Sp. p. 6463; Gaz. vol. 140; p. 1154.  
 Thermostatic regulating device. W. H. Carrier and E. W. Comfort. No. 929,655; Aug. 3; Sp. p. 17; Gaz. vol. 145; p. 5.



*Alphabetical list of inventions—Continued.*

- Thermostatic regulator. C. J. Balthasar. No. 919,522; Apr. 27; Sp. p. 5524; Gaz. vol. 141; p. 948.
- Thill-coupling. T. A. Moran. No. 911,897; Feb. 9; Sp. p. 1701; Gaz. vol. 139; p. 315.
- Thill-coupling. F. Dean. No. 913,945; Mar. 2; Sp. p. 603; Gaz. vol. 140; p. 96.
- Thill-coupling. C. N. Jackson. No. 914,575; Mar. 9; Sp. p. 1934; Gaz. vol. 140; p. 330.
- Thill-coupling. H. E. Vosburgh. No. 930,246; Aug. 3; Sp. p. 1281; Gaz. vol. 145; p. 211.
- Thill-coupling. V. B. Henby and H. Fintel, Jr. No. 930,286; Aug. 3; Sp. p. 1345; Gaz. vol. 145; p. 222.
- Thill coupling and support. A. E. Brown. No. 913,806; Mar. 2; Sp. p. 268; Gaz. vol. 140; p. 46.
- Thill-coupling, Antirattling. S. N. Burdsall. No. 933,691; Sept. 7; Sp. p. 1489; Gaz. vol. 146; p. 224.
- Thill-support. S. H. Story. No. 911,775; Feb. 9; Sp. p. 1476; Gaz. vol. 139; p. 275.
- Thill-support. M. E. Covey. No. 925,157; June 15; Sp. p. 4389; Gaz. vol. 143; p. 749.
- Thill-support. W. Judd. No. 930,187; Aug. 3; Sp. p. 1185; Gaz. vol. 145; p. 193.
- Thill, Vehicle. P. E. Ebreznz. No. 927,778; July 13; Sp. p. 2232; Gaz. vol. 144; p. 386.
- Thimble. B. C. Callender. No. 925,801; June 22; Sp. p. 5697; Gaz. vol. 143; p. 987.
- Thimble. T. Weigle. No. 926,040; June 22; Sp. p. 6172; Gaz. vol. 143; p. 1066.
- Thimble, Sewing. C. E. Lies. No. 936,902; Oct. 12; Sp. p. 2711; Gaz. vol. 147; p. 452.
- Thin-plate detector. T. J. McDaniel. No. 916,955; Mar. 30; Sp. p. 6662; Gaz. vol. 140; p. 1187.
- Thioindigo leuco compounds, Making. E. Münch. No. 910,839; Jan. 26; Sp. p. 4927; Gaz. vol. 138; p. 889.
- Thionous precipitation. G. C. Westby. No. 923,916; June 8; Sp. p. 1815; Gaz. vol. 143; p. 303.
- Thiosalicylic compound and making same. E. Münch. No. 943,560; Dec. 14; Sp. p. 3268; Gaz. vol. 149; p. 551.
- Thiosalicylic compound and making same. E. Münch. No. 943,561; Dec. 14; Sp. p. 3270; Gaz. vol. 149; p. 551.
- Thistle-eradicator. O. Murk. No. 944,900; Dec. 28; Sp. p. 6178; Gaz. vol. 149; p. 1064.
- Thorium sulfid, Making. J. L. Huber. No. 941,071; Nov. 23; Sp. p. 5799; Gaz. vol. 148; p. 978.
- Thread and tape holder. G. W. Weiss. No. 934,251; Sept. 14; Sp. p. 2610; Gaz. vol. 146; p. 431.
- Thread-board. W. O. Aldrich. No. 938,202; Oct. 26; Sp. p. 5456; Gaz. vol. 147; p. 932.
- Thread-board. W. O. Aldrich. No. 942,607; Dec. 7; Sp. p. 1199; Gaz. vol. 149; p. 196.
- Thread, Coating. E. D. C. Bayne and L. A. Subers. No. 929,651; Aug. 3; Sp. p. 10; Gaz. vol. 145; p. 4.
- Thread-cop. A. N. Chartier. No. 939,667; Nov. 9; Sp. p. 2705; Gaz. vol. 148; p. 446.
- Thread-cutter. J. W. Klemm. No. 932,788; Aug. 31; Sp. p. 6705; Gaz. vol. 145; p. 1150.
- Thread-cutter. T. J. Handrahan. No. 934,439; Sept. 21; Sp. p. 2970; Gaz. vol. 146; p. 518.
- Thread-cutters, Reamer for. A. L. Maxwell. No. 926,272; June 29; Sp. p. 6680; Gaz. vol. 143; p. 1179.
- Thread-cutting clip. H. R. Benda. No. 940,228; Nov. 16; Sp. p. 3944; Gaz. vol. 148; p. 671.
- Thread-cutting die. L. Castracane. No. 934,139; Sept. 14; Sp. p. 2401; Gaz. vol. 146; p. 393.
- Thread-cutting mechanism, Filling. E. H. Ryon. No. 939,445; Nov. 9; Sp. p. 2220; Gaz. vol. 148; p. 369.
- Thread-cutting tool. B. Borden. No. 924,221; June 8; Sp. p. 2475; Gaz. vol. 143; p. 402.
- Thread-cutting tool. W. Murchey. No. 939,735; Nov. 9; Sp. p. 2842; Gaz. vol. 148; p. 469.
- Thread finishing and lustering machine, Silk. E. Pohl. No. 911,907; Feb. 9; Sp. p. 1717; Gaz. vol. 139; p. 318.
- Thread-finishing machine, Silk. E. Pohl. No. 909,332; Jan. 12; Sp. p. 1831; Gaz. vol. 138; p. 329.
- Thread-finishing machine, Silk. E. Pohl. No. 936,473; Oct. 12; Sp. p. 1850; Gaz. vol. 147; p. 307.
- Thread-guide. J. R. Mitchell. No. 920,486; May 4; Sp. p. 785; Gaz. vol. 142; p. 127.
- Thread-knotting apparatus, Pile. E. Paruszewski. No. 921,446; May 11; Sp. p. 2784; Gaz. vol. 142; p. 479.
- Thread, Means for detecting enlargements in. J. Eastwood. No. 943,662; Dec. 21; Sp. p. 3536; Gaz. vol. 149; p. 615.
- Thread or yarn lubricating device. F. C. Scholler. No. 918,776; Apr. 20; Sp. p. 3769; Gaz. vol. 141; p. 668.
- Thread-protector. B. C. White. No. 944,643; Dec. 28; Sp. p. 5630; Gaz. vol. 149; p. 977.
- Thread-singeing device. G. Gin and V. Courteuisse. No. 923,425; June 1; Sp. p. 706; Gaz. vol. 143; p. 104.
- Thread, Spool of. J. J. Drury. No. 928,507; July 20; Sp. p. 3750; Gaz. vol. 144; p. 659.
- Thread-waxing device. F. L. Alley. No. 930,115; Aug. 3; Sp. p. 1037; Gaz. vol. 145; p. 163.
- Thread-winding mechanism. E. Pohl. No. 910,415; Jan. 19; Sp. p. 4056; Gaz. vol. 138; p. 727.
- Threads by twisting, Joining. W. R. Landfear. No. 911,886; Feb. 9; Sp. p. 1679; Gaz. vol. 139; p. 311.
- Threads, Lustering and finishing silk. E. Pohl. No. 911,906; Feb. 9; Sp. p. 1716; Gaz. vol. 139; p. 318.
- Threads or artificial silk, Apparatus for producing and treating viscose. A. Delubac. No. 923,777; June 1; Sp. p. 1479; Gaz. vol. 143; p. 226.
- Threads, Producing cellulose. E. Thiele. No. 909,257; Jan. 12; Sp. p. 1685; Gaz. vol. 138; p. 304.
- Threading-die. M. H. Treadwell and C. P. Astrom. No. 944,584; Dec. 28; Sp. p. 5518; Gaz. vol. 149; p. 957.
- Threading-machine. A. Emerson. No. 930,653; Aug. 10; Sp. p. 2122; Gaz. vol. 145; p. 370.
- Three-position signal. W. V. Moak. No. 919,450; Apr. 27; Sp. p. 5347; Gaz. vol. 141; p. 924.
- Thresher-concave. C. E. Storer. No. 934,106; Sept. 14; Sp. p. 2324; Gaz. vol. 146; p. 381.
- Thresher-feeder carrier. J. W. Kennedy. No. 938,871; Nov. 2; Sp. p. 917; Gaz. vol. 148; p. 144.
- Thresher screen-leveling device. J. Martyn. No. 915,688; Mar. 16; Sp. p. 4207; Gaz. vol. 140; p. 725.
- Thresher-tooth. G. H. Rechtenbach. No. 911,157; Feb. 2; Sp. p. 267; Gaz. vol. 139; p. 47.
- Thresher, Traveling. G. O. Walters. No. 925,967; June 22; Sp. p. 6026; Gaz. vol. 143; p. 1041.
- Thresher yielding concave. C. W. Clark. No. 918,285; Apr. 13; Sp. p. 2694; Gaz. vol. 141; p. 477.
- Threshing-cylinder. T. G. Leavell. No. 925,358; June 15; Sp. p. 4758; Gaz. vol. 143; p. 812.
- Threshing-cylinder tooth. T. Dagel. No. 927,331; July 6; Sp. p. 1270; Gaz. vol. 144; p. 210.
- Threshing-machine. E. M. Peterson. No. 912,610; Feb. 16; Sp. p. 3286; Gaz. vol. 139; p. 589.
- Threshing-machine. J. J. Sullivan. No. 916,216; Mar. 23; Sp. p. 5200; Gaz. vol. 140; p. 921.
- Threshing-machine. R. M. Johnston. No. 917,308; Apr. 6; Sp. p. 725; Gaz. vol. 141; p. 124.
- Threshing-machine. F. S. Holley. No. 917,434; Apr. 6; Sp. p. 948; Gaz. vol. 141; p. 165.
- Threshing-machine. F. Lytle. No. 926,201; June 29; Sp. p. 6536; Gaz. vol. 143; p. 1156.
- Threshing-machine. P. H. Graber. No. 930,174; Aug. 3; Sp. p. 1162; Gaz. vol. 145; p. 189.
- Threshing-machine. H. O. Sageng. No. 931,347; Aug. 17; Sp. p. 3655; Gaz. vol. 145; p. 631.
- Threshing-machine. R. W. Crippen. No. 931,731; Aug. 24; Sp. p. 4466; Gaz. vol. 145; p. 778.
- Threshing-machine. T. S. Haynes. No. 933,035; Aug. 31; Sp. p. 7172; Gaz. vol. 145; p. 1231.
- Threshing-machine. R. W. Gotshall. No. 938,138; Oct. 26; Sp. p. 5310; Gaz. vol. 147; p. 908.
- Threshing-machine. R. W. Gotshall. No. 938,139; Oct. 26; Sp. p. 5313; Gaz. vol. 147; p. 909.
- Threshing-machine. O. A. Amble. No. 938,624; Nov. 2; Sp. p. 406; Gaz. vol. 148; p. 61.
- Threshing-machine attachment. C. O. Fredrickson. No. 918,139; Apr. 13; Sp. p. 2397; Gaz. vol. 141; p. 429.
- Threshing-machine attachment. C. A. Brost. No. 923,324; June 1; Sp. p. 498; Gaz. vol. 143; p. 71.
- Threshing-machine cleaning and sorting device. G. Erlinger, Jr. No. 937,783; Oct. 26; Sp. p. 4564; Gaz. vol. 147; p. 790.
- Threshing-machine concave. O. H. Paschke. No. 941,037; Nov. 23; Sp. p. 5728; Gaz. vol. 148; p. 967.
- Threshing-machine feeder. J. H. Schletter. No. 922,520; May 25; Sp. p. 4984; Gaz. vol. 142; p. 887.
- Threshing-machine feeder. J. M. Sailer. No. 926,353; June 29; Sp. p. 6850; Gaz. vol. 143; p. 1205.
- Threshing-machine feeder. A. F. and H. C. Johnson. No. 940,026; Nov. 16; Sp. p. 3465; Gaz. vol. 148; p. 599.
- Threshing machine, Garbanzon-. F. Garver. No. 942,063; Dec. 7; Sp. p. 45; Gaz. vol. 149; p. 9.
- Threshing-machine grain-header attachment. J. L. Shipman, W. L. Bankston, and J. P. Shipman. No. 934,847; Sept. 21; Sp. p. 3768; Gaz. vol. 146; p. 653.
- Threshing-machine level attachment. A. Ferguson. No. 913,206; Feb. 23; Sp. p. 4500; Gaz. vol. 139; p. 811.
- Threshing-machine leveling device. F. W. and E. P. Gross. No. 919,854; Apr. 27; Sp. p. 6218; Gaz. vol. 141; p. 1061.
- Threshing-machine mounting. E. R. Grams. No. 910,528; Jan. 26; Sp. p. 4296; Gaz. vol. 138; p. 785.
- Threshing-machine self-feeder. H. Heikka. No. 926,117; June 29; Sp. p. 6343; Gaz. vol. 143; p. 1126.
- Threshing-machine separator. R. McLaughlin. No. 922,615; May 25; Sp. p. 5188; Gaz. vol. 142; p. 918.
- Threshing-machine teeth, Fastening for. O. Wallachlaeger. No. 923,221; June 1; Sp. p. 210; Gaz. vol. 143; p. 35.
- Threshing-machine wind-board governor. R. F. Klaasen. No. 920,753; May 4; Sp. p. 1331; Gaz. vol. 142; p. 216.
- Threshing-machines, Automatic self-guiding coupling for. L. A. Davis. No. 929,920; Aug. 3; Sp. p. 636; Gaz. vol. 145; p. 101.
- Threshing or separating machine. H. W. Eisenhart. No. 930,166; Aug. 3; Sp. p. 1145; Gaz. vol. 145; p. 186.
- Threshing-rigs and other purposes, Coupling for. T. E. Stoa. No. 929,046; July 27; Sp. p. 4847; Gaz. vol. 144; p. 866.
- Throw-out mechanism. A. J. Ford. No. 913,119; Feb. 23; Sp. p. 4323; Gaz. vol. 139; p. 782.
- Ticket. E. A. Hoen. No. 911,406; Feb. 2; Sp. p. 743; Gaz. vol. 139; p. 129.
- Ticket and card case. V. H. Pollock. No. 933,663; Sept. 7; Sp. p. 1425; Gaz. vol. 146; p. 214.
- Ticket and holder for same, Continuous railway. J. A. Proctor and M. H. Elkin. No. 936,354; Oct. 12; Sp. p. 1562; Gaz. vol. 147; p. 267.
- Ticket-case. G. T. Haines. No. 914,040; Mar. 2; Sp. p. 839; Gaz. vol. 140; p. 129.
- Ticket-case. H. Stephan. No. 930,429; Aug. 10; Sp. p. 1626; Gaz. vol. 145; p. 294.
- Ticket-cutter. E. D. Fritch. No. 924,655; June 15; Sp. p. 3359; Gaz. vol. 143; p. 579.

*Alphabetical list of inventions—Continued.*

- Ticket-holder. J. J. O'Neill. No. 909,110; Jan. 5; Sp. p. 1403; Gaz. vol. 138; p. 223.  
 Ticket-holder. J. J. Walsh. No. 909,972; Jan. 19; Sp. p. 3111; Gaz. vol. 138; p. 576.  
 Ticket-holder. C. C. Gill. No. 912,110; Feb. 9; Sp. p. 2227; Gaz. vol. 139; p. 385.  
 Ticket-holder. C. L. Brush. No. 912,804; Feb. 16; Sp. p. 3729; Gaz. vol. 139; p. 656.  
 Ticket-holder. A. V. Sims. No. 912,905; Feb. 16; Sp. p. 3891; Gaz. vol. 139; p. 685.  
 Ticket-holder. W. A. Downing and J. T. McHugh. No. 917,024; Apr. 6; Sp. p. 133; Gaz. vol. 141; p. 25.  
 Ticket-holder. F. J. Garrod. No. 922,272; May 18; Sp. p. 4485; Gaz. vol. 142; p. 778.  
 Ticket-holder. F. F. Sayles. No. 934,220; Sept. 14; Sp. p. 2544; Gaz. vol. 146; p. 420.  
 Ticket-holder. K. Blekastad. No. 934,386; Sept. 14; Sp. p. 2855; Gaz. vol. 146; p. 476.  
 Ticket holder and counter, Combined. L. S. Frambes. No. 933,943; Sept. 14; Sp. p. 1996; Gaz. vol. 146; p. 329.  
 Ticket holder and theater-seat diagram, Combined. L. B. Tration. No. 916,227; Mar. 23; Sp. p. 5236; Gaz. vol. 140; p. 924.  
 Ticket holder, Milk-. J. H. Rackmyer. No. 912,412; Feb. 16; Sp. p. 2869; Gaz. vol. 139; p. 520.  
 Ticket-punch. C. B. Livermore. No. 912,142; Feb. 9; Sp. p. 2275; Gaz. vol. 139; p. 394.  
 Ticket, Railway-. R. A. Smith. No. 922,818; May 25; Sp. p. 5612; Gaz. vol. 142; p. 983.  
 Ticket, Railway-. T. A. Rousseau. No. 944,995; Dec. 28; Sp. p. 6370; Gaz. vol. 149; p. 1094.  
 Ticket, Railway or other. A. Moyon. No. 936,925; Oct. 12; Sp. p. 2750; Gaz. vol. 147; p. 460.  
 Ticket, Transfer-. R. C. Osman. No. 940,048; Nov. 16; Sp. p. 3545; Gaz. vol. 148; p. 606.  
 Ticket, Transportation-. E. A. Denham. No. 913,107; Feb. 23; Sp. p. 4291; Gaz. vol. 139; p. 778.  
 Tide and wave motor. C. S. Kendall. No. 925,581; June 22; Sp. p. 5197; Gaz. vol. 143; p. 915.  
 Tide-motor. W. J. White. No. 917,823; Apr. 13; Sp. p. 1731; Gaz. vol. 141; p. 319.  
 Tide-power device. J. Hall, Jr. No. 926,408; June 29; Sp. p. 6934; Gaz. vol. 143; p. 1221.  
 Tie: See Bag-tie; Bale-tie; Bale and package tie; Bundle-tie; Concrete railway-tie; Cow-tie; Cross-tie; Fence-tie; Fodder-tie; Metal tie; Metallic tie; Necktie; Package-tie; Rail-tie; Rail and beam tie; Railway-tie; Railway composite cross-tie; Railway cross-tie; Railway-rail tie; Railway steel tie; Steel tie; Timber-tie; Track-tie; Wall-tie.  
 Tie. J. H. Stewart. No. 915,244; Mar. 16; Sp. p. 3291; Gaz. vol. 140; p. 575.  
 Tie and means for fastening rails thereon. I. C. Catton. No. 942,438; Dec. 7; Sp. p. 841; Gaz. vol. 149; p. 138.  
 Tie and rail-fastener. M. H. Eells and E. E. Anderson. No. 913,368; Feb. 23; Sp. p. 4834; Gaz. vol. 139; p. 866.  
 Tie and rail-fastener. W. N. Haring. No. 922,421; May 18; Sp. p. 4766; Gaz. vol. 142; p. 826.  
 Tie and rail-fastener. A. M. Moylan. No. 941,937; Nov. 30; Sp. p. 7663; Gaz. vol. 148; p. 1291.  
 Tie attachment. W. T. Huilscher. No. 914,416; Mar. 9; Sp. p. 1622; Gaz. vol. 140; p. 277.  
 Tie-bands or hoops for silos, &c., Lug for. E. Hillard. No. 920,742; May 4; Sp. p. 1317; Gaz. vol. 142; p. 213.  
 Tie-clasp. L. C. Hicks. No. 915,176; Mar. 16; Sp. p. 3154; Gaz. vol. 140; p. 553.  
 Tie for packing-boxes. E. P. Lehmann. No. 910,551; Jan. 26; Sp. p. 4342; Gaz. vol. 138; p. 797.  
 Tie-holder. G. Bullock. No. 915,550; Mar. 16; Sp. p. 3904; Gaz. vol. 140; p. 676.  
 Tie-holder. A. A. Felix. No. 939,678; Nov. 9; Sp. p. 2722; Gaz. vol. 148; p. 450.  
 Tie lifter and holder, Combined. T. Warren. No. 938,528; Nov. 2; Sp. p. 199; Gaz. vol. 148; p. 28.  
 Tie-loader. E. Platter. No. 932,571; Aug. 31; Sp. p. 6222; Gaz. vol. 145; p. 1078.  
 Tie-out. W. H. MacGill. No. 926,664; June 29; Sp. p. 7412; Gaz. vol. 143; p. 1307.  
 Tie-plate. W. Goldie, Jr. No. 911,230; Feb. 2; Sp. p. 411; Gaz. vol. 139; p. 71.  
 Tie-plate. C. E. Shade. No. 916,794; Mar. 30; Sp. p. 6335; Gaz. vol. 140; p. 1132.  
 Tie-plate. G. W. Whiteman and H. R. Leonard. No. 916,904; Mar. 30; Sp. p. 6549; Gaz. vol. 140; p. 1169.  
 Tie-plate. L. A. Hopkins. No. 919,867; Apr. 27; Sp. p. 6248; Gaz. vol. 141; p. 1065.  
 Tie-plate. M. Bartley. No. 921,062; May 11; Sp. p. 1963; Gaz. vol. 142; p. 348.  
 Tie-plate. J. R. Keller. No. 922,150; May 18; Sp. p. 4222; Gaz. vol. 142; p. 738.  
 Tie-plate. J. H. King. No. 928,869; July 20; Sp. p. 4481; Gaz. vol. 144; p. 780.  
 Tie-plate. A. L. Stanford. No. 931,517; Aug. 17; Sp. p. 3984; Gaz. vol. 145; p. 687.  
 Tie-plate. W. L. De Remer. No. 933,164; Sept. 7; Sp. p. 271; Gaz. vol. 146; p. 45.  
 Tie-plate and brace, Combined. I. L. Edwards. No. 920,842; May 4; Sp. p. 1514; Gaz. vol. 142; p. 245.  
 Tie-plate and guard-rail brace, Combined. C. W. Reimoehl and B. L. Weaver. No. 909,670; Jan. 12; Sp. p. 2491; Gaz. vol. 138; p. 442.  
 Tie-plate and rail-anticreep, Combined. B. R. Scott. No. 933,123; Sept. 7; Sp. p. 178; Gaz. vol. 146; p. 30.  
 Tie-plate and rail-anticreep, Combined. M. S. Clarke. No. 942,307; Dec. 7; Sp. p. 597; Gaz. vol. 149; p. 94.  
 Tie-plate and rail-joint support, Anticreeping. L. R. Zollinger. No. 921,576; May 11; Sp. p. 3029; Gaz. vol. 142; p. 520.  
 Tie plate, Rail-. W. J. Williams. No. 921,044; May 11; Sp. p. 1926; Gaz. vol. 142; p. 342.  
 Tie-plate washer. J. W. Kendrick. No. 933,182; Sept. 7; Sp. p. 318; Gaz. vol. 146; p. 51.  
 Tie-plates, Making rolled-metal. W. L. De Remer. No. 936,423; Oct. 12; Sp. p. 1733; Gaz. vol. 147; p. 290.  
 Tie-plates, Manufacturing. E. H. Bell. No. 938,109; Oct. 26; Sp. p. 5241; Gaz. vol. 147; p. 899.  
 Tie-tamper. F. J. Gilroy. No. 917,860; Apr. 13; Sp. p. 1797; Gaz. vol. 141; p. 330.  
 Tie, track-fastener, and brace. J. J. Griffin. No. 923,969; June 8; Sp. p. 1917; Gaz. vol. 143; p. 320.  
 Ties, Means for securing splice-bars to. M. F. Bonzano. No. 923,007; May 25; Sp. p. 5985; Gaz. vol. 142; p. 1044.  
 Tightening device. H. English. No. 923,960; June 8; Sp. p. 1900; Gaz. vol. 143; p. 317.  
 Tile. A. S. Janin. No. 909,603; Jan. 12; Sp. p. 2361; Gaz. vol. 138; p. 419.  
 Tile. J. A. McKee. No. 914,862; Mar. 9; Sp. p. 2545; Gaz. vol. 140; p. 425.  
 Tile. F. R. Elbert. No. 925,316; June 15; Sp. p. 4681; Gaz. vol. 143; p. 799.  
 Tile. W. T. Nicholls. No. 926,282; June 29; Sp. p. 6694; Gaz. vol. 143; p. 1181.  
 Tile. J. R. Miller and U. S. Huggins. No. 927,869; July 13; Sp. p. 2433; Gaz. vol. 144; p. 416.  
 Tile. H. C. Moore. No. 928,320; July 20; Sp. p. 3405; Gaz. vol. 144; p. 599.  
 Tile. H. C. Moore. No. 928,321; July 20; Sp. p. 3407; Gaz. vol. 144; p. 599.  
 Tile and sewer-outlet protector, Drain-. O. A. and J. A. Tenold. No. 928,481; July 20; Sp. p. 3706; Gaz. vol. 144; p. 652.  
 Tile and tile-faced surface. W. P. Meeker. No. 943,950; Dec. 21; Sp. p. 4122; Gaz. vol. 149; p. 715.  
 Tile-coating machine. F. E. Goldsmith. No. 917,586; Apr. 6; Sp. p. 1222; Gaz. vol. 141; p. 214.  
 Tile-coating machine. F. E. Goldsmith. No. 926,182; June 29; Sp. p. 6496; Gaz. vol. 143; p. 1150.  
 Tile-coating machinery. F. E. Goldsmith. No. 944,607; Dec. 28; Sp. p. 5566; Gaz. vol. 149; p. 965.  
 Tile, Composite. J. A. Wheeler. No. 921,036; May 11; Sp. p. 1913; Gaz. vol. 142; p. 339.  
 Tile-ditching machine. E. A. Anderson. No. 911,564; Feb. 9; Sp. p. 1048; Gaz. vol. 139; p. 206.  
 Tile, Drain-. W. H. Booth. No. 914,231; Mar. 2; Sp. p. 1234; Gaz. vol. 140; p. 192.  
 Tile-faced blocks, Machine for molding. W. P. Meeker and M. S. Drake. No. 940,983; Nov. 23; Sp. p. 5599; Gaz. vol. 148; p. 948.  
 Tilefloor. F. Parsons. No. 916,007; Mar. 23; Sp. p. 4825; Gaz. vol. 140; p. 853.  
 Tile greenhouse-bench. B. P. Wise. No. 923,921; June 8; Sp. p. 1821; Gaz. vol. 143; p. 304.  
 Tile-machine. J. M. Schenk and J. H. Stewart. No. 908,611; Jan. 5; Sp. p. 381; Gaz. vol. 138; p. 62.  
 Tile-machine. W. W. Myers and J. R. Royer. No. 921,142; May 11; Sp. p. 2135; Gaz. vol. 142; p. 376.  
 Tile-machine. H. H. Gibson. No. 924,450; June 8; Sp. p. 2915; Gaz. vol. 143; p. 478.  
 Tile-machine. J. H. Stewart and J. M. Schenk. No. 927,895; July 13; Sp. p. 2488; Gaz. vol. 144; p. 425.  
 Tile-machine plunger. G. F. Keil and C. F. Mickelson. No. 911,245; Feb. 2; Sp. p. 444; Gaz. vol. 139; p. 76.  
 Tile-making machine. H. P. Holman. No. 918,855; Apr. 20; Sp. p. 3946; Gaz. vol. 141; p. 694.  
 Tile-making machine. W. J. McCracken. No. 936,928; Oct. 12; Sp. p. 2754; Gaz. vol. 147; p. 460.  
 Tile-making machine, Cement-. T. P. Hackett. No. 943,971; Dec. 21; Sp. p. 4165; Gaz. vol. 149; p. 721.  
 Tile-mold. J. H. Stewart. No. 928,162; July 13; Sp. p. 3001; Gaz. vol. 144; p. 513.  
 Tile mold, Glass-. J. S. Lukasko. No. 917,469; Apr. 6; Sp. p. 1011; Gaz. vol. 141; p. 176.  
 Tile mold, Roofing-. H. H. Katz. No. 934,734; Sept. 21; Sp. p. 3539; Gaz. vol. 146; p. 616.  
 Tile, Molding-. W. T. Nicholls. No. 921,727; May 18; Sp. p. 3368; Gaz. vol. 142; p. 599.  
 Tile-mounting. O. M. Landis. No. 915,973; Mar. 23; Sp. p. 4763; Gaz. vol. 140; p. 843.  
 Tile press-mould. W. P. Meeker. No. 925,782; June 22; Sp. p. 5650; Gaz. vol. 143; p. 980.  
 Tile, Roofing-. B. L. Bacot. No. 912,353; Feb. 16; Sp. p. 2750; Gaz. vol. 139; p. 501.  
 Tile sign. F. M. Ross and O. Wolff. No. 910,586; Jan. 26; Sp. p. 4438; Gaz. vol. 138; p. 809.  
 Tiles, Building-clip for. A. J. Eken. No. 944,022; Dec. 21; Sp. p. 4288; Gaz. vol. 149; p. 738.  
 Tiles, Composition of matter to be used for. B. and A. Gustiana. No. 933,979; Sept. 14; Sp. p. 2068; Gaz. vol. 146; p. 341.  
 Tiles, Forming glass. W. P. Meeker. No. 915,733; Mar. 23; Sp. p. 4405; Gaz. vol. 140; p. 782.  
 Tiles, Method and apparatus for forming glass. J. S. Lukasko. No. 917,470; Apr. 6; Sp. p. 1012; Gaz. vol. 141; p. 176.  
 Tiling machine, Block-. W. P. Meeker. No. 941,792; Nov. 30; Sp. p. 7351; Gaz. vol. 148; p. 1239.  
 Tiling-machine. G. Spalding. No. 942,469; Dec. 7; Sp. p. 926; Gaz. vol. 149; p. 149.  
 Tiling machine, Farm and garden. F. H. Kerr. No. 926,498; June 29; Sp. p. 7091; Gaz. vol. 143; p. 1251.  
 Tilt-table, Automatic traveling. J. W. Fonner. No. 916,853; Mar. 30; Sp. p. 6448; Gaz. vol. 140; p. 1151.



*Alphabetical list of inventions—Continued.*

- Tilting gate. E. Sample. No. 913,434; Feb. 23; Sp. p. 4960; Gaz. vol. 139; p. 888.
- Timber felling and sawing machine. J. W. Smith. No. 935,128; Sept. 28; Sp. p. 4343; Gaz. vol. 146; p. 774.
- Timber-felling machine. E. S. Cuyler. No. 938,659; Nov. 2; Sp. p. 268; Gaz. vol. 148; p. 40.
- Timber-tie. R. R. Clem. No. 911,208; Feb. 2; Sp. p. 364; Gaz. vol. 139; p. 64.
- Time-controlled apparatus. J. T. Callaway. No. 922,256; May 18; Sp. p. 4457; Gaz. vol. 142; p. 773.
- Time-controller, Electric. H. K. Wood. No. 912,347; Feb. 16; Sp. p. 2738; Gaz. vol. 139; p. 499.
- Time cut-out. J. Gardner. No. 912,555; Feb. 16; Sp. p. 3171; Gaz. vol. 139; p. 569.
- Time-indicating device. S. P. Thrasher. No. 914,534; Mar. 9; Sp. p. 1856; Gaz. vol. 140; p. 316.
- Time-indicating system. A. A. Radtke. No. 921,280; May 11; Sp. p. 2432; Gaz. vol. 142; p. 423.
- Time-limit annunciator and register. A. Sanders. No. 908,503; Jan. 5; Sp. p. 145; Gaz. vol. 138; p. 26.
- Time-lock. E. M. Benham. No. 939,384; Nov. 9; Sp. p. 2091; Gaz. vol. 148; p. 349.
- Time-movement. W. H. Taylor. No. 944,159; Dec. 21; Sp. p. 4568; Gaz. vol. 149; p. 784.
- Time-record sheet. W. D. Hawley. No. 923,265; June 1; Sp. p. 316; Gaz. vol. 143; p. 50.
- Time-recorder. J. and A. Dey. No. 908,972; Jan. 5; Sp. p. 1100; Gaz. vol. 138; p. 177.
- Time-recorder. J. and A. Dey. No. 908,973; Jan. 5; Sp. p. 1107; Gaz. vol. 138; p. 178.
- Time-recorder. J. and A. Dey. No. 908,975; Jan. 5; Sp. p. 1123; Gaz. vol. 138; p. 178.
- Time-recorder. J. and A. Dey. No. 908,976; Jan. 5; Sp. p. 1129; Gaz. vol. 138; p. 179.
- Time-recorder. A. W. M. Ewering. No. 910,517; Jan. 26; Sp. p. 4280; Gaz. vol. 138; p. 785.
- Time-recorder. A. P. Schmucker. No. 922,633; May 25; Sp. p. 5225; Gaz. vol. 142; p. 924.
- Time-recorder. J. F. Kiely. No. 929,227; July 27; Sp. p. 5218; Gaz. vol. 144; p. 925.
- Time-recorder. J. F. Kiely. No. 929,228; July 27; Sp. p. 5225; Gaz. vol. 144; p. 926.
- Time-recorder. W. Beresford. No. 931,254; Aug. 17; Sp. p. 3445; Gaz. vol. 145; p. 598.
- Time-recorder. C. E. Larrabee. No. 935,312; Sept. 28; Sp. p. 4696; Gaz. vol. 146; p. 834.
- Time-recorder. J. Alsens. No. 936,691; Oct. 12; Sp. p. 2303; Gaz. vol. 147; p. 382.
- Time-recorder. W. H. Bundy. No. 937,920; Oct. 26; Sp. p. 4838; Gaz. vol. 147; p. 836.
- Time-recorder. W. H. Bundy. No. 937,921; Oct. 26; Sp. p. 4841; Gaz. vol. 147; p. 836.
- Time-recorder and the like. R. Bürk. No. 934,038; Sept. 14; Sp. p. 2168; Gaz. vol. 146; p. 359.
- Time-recorder, Autograph. F. H. Cottrill and A. Leiharmer. No. 912,230; Feb. 9; Sp. p. 2434; Gaz. vol. 139; p. 420.
- Time-recorder, Watchman's. J. and A. Dey. No. 908,974; Jan. 5; Sp. p. 1110; Gaz. vol. 138; p. 178.
- Time-recorder, Workman's. C. T. Hawley. No. 917,761; Apr. 13; Sp. p. 1588; Gaz. vol. 141; p. 299.
- Time-recorder, Workman's. C. T. Hawley. No. 920,866; May 4; Sp. p. 1564; Gaz. vol. 142; p. 253.
- Time-recorder, Workman's. F. G. Lake. No. 927,805; July 13; Sp. p. 2285; Gaz. vol. 144; p. 395.
- Time-recorders, Registration regulation for. G. W. Phillips. No. 930,416; Aug. 10; Sp. p. 1595; Gaz. vol. 145; p. 289.
- Time-recording apparatus, Intermittently-operated. A. F. A. J. Plasschaert. No. 929,107; July 27; Sp. p. 4975; Gaz. vol. 144; p. 886.
- Time-recording device. E. S. Bassett. No. 928,170; July 13; Sp. p. 3022; Gaz. vol. 144; p. 516.
- Time-recording mechanism. J. and A. Dey. No. 930,357; Aug. 10; Sp. p. 1480; Gaz. vol. 145; p. 271.
- Time-relay for selective signaling. H. A. Watson. No. 917,916; Apr. 13; Sp. p. 1931; Gaz. vol. 141; p. 350.
- Time-stamp. M. W. Obermiller. No. 916,001; Mar. 23; Sp. p. 4816; Gaz. vol. 140; p. 852.
- Time-switch. C. A. Mann. No. 944,802; Dec. 28; Sp. p. 5974; Gaz. vol. 149; p. 1030.
- Time-switch, Automatic. J. and J. Jones, Jr. No. 927,803; July 13; Sp. p. 2281; Gaz. vol. 144; p. 394.
- Timer. F. A. Putnam. No. 925,649; June 22; Sp. p. 5350; Gaz. vol. 143; p. 937.
- Timer. A. S. Krotz. No. 930,196; Aug. 3; Sp. p. 1197; Gaz. vol. 145; p. 195.
- Timer and distributor. H. L. Radford. No. 923,442; June 1; Sp. p. 746; Gaz. vol. 143; p. 110.
- Timer and distributor, Combined. G. T. Brown. No. 938,208; Oct. 26; Sp. p. 5465; Gaz. vol. 147; p. 934.
- Timing and ignition device. W. H. Saunders. No. 942,936; Dec. 14; Sp. p. 1936; Gaz. vol. 149; p. 337.
- Timing-machine for use in pigeon-races, &c. W. McMillan. No. 937,845; Oct. 26; Sp. p. 4685; Gaz. vol. 147; p. 811.
- Timepiece. E. Aufero. No. 927,472; July 13; Sp. p. 1579; Gaz. vol. 144; p. 284.
- Timepiece, Solar. H. Hansen. No. 933,556; Sept. 7; Sp. p. 1220; Gaz. vol. 146; p. 179.
- Tin from waste, Recovering. A. Nodon. No. 940,471; Nov. 16; Sp. p. 4503; Gaz. vol. 148; p. 753.
- Tin oxid used for enameling metal ware, Substitute for. R. Weimer. No. 932,839; Aug. 31; Sp. p. 6795; Gaz. vol. 145; p. 1165.
- Tin-plate by means of chlorin, Detinning. H. von Schütz. No. 940,898; Nov. 23; Sp. p. 5431; Gaz. vol. 148; p. 920.
- Tin-plate-finishing machine. E. Norton. No. 940,715; Nov. 23; Sp. p. 5034; Gaz. vol. 148; p. 860.
- Tin-plate, &c., Holder for shipment of. J. G. Hodgson. No. 921,699; May 18; Sp. p. 3314; Gaz. vol. 142; p. 590.
- Tin-plate, &c., Holder for shipment of. J. G. Hodgson. No. 921,700; May 18; Sp. p. 3317; Gaz. vol. 142; p. 590.
- Tin-plate, Holder for shipment of. F. Rudolph and E. W. Carnes. No. 921,743; May 18; Sp. p. 3392; Gaz. vol. 142; p. 604.
- Tin-plate or other thin metal sheets, Package or holder for shipment of. F. Rudolph and E. W. Carnes. No. 921,742; May 18; Sp. p. 3391; Gaz. vol. 142; p. 604.
- Tin, Removing and recovering. J. Elkes. No. 919,839; Apr. 27; Sp. p. 6190; Gaz. vol. 141; p. 1056.
- Tin scraps and producing tin compounds, Detinning. O. K. Zwingerberger. No. 943,508; Dec. 14; Sp. p. 3172; Gaz. vol. 149; p. 533.
- Tin-transferring machine. F. P. Boninie. No. 930,138; Aug. 3; Sp. p. 1091; Gaz. vol. 145; p. 176.
- Tins, Machine for forming. S. Opsal. No. 913,841; Mar. 2; Sp. p. 340; Gaz. vol. 140; p. 58.
- Tins or canisters for preserves, Apparatus for flanging. A. Wilzin. No. 928,618; July 20; Sp. p. 3987; Gaz. vol. 144; p. 696.
- Tinned sheet-iron boxes, &c., for detinning, Preparing. E. Goldschmidt. (Reissue.) No. 13,042; Nov. 16; Sp. p. 4893; Gaz. vol. 148; p. 815.
- Tinning or coating machine. C. C. Roberts. No. 911,613; Feb. 9; Sp. p. 1165; Gaz. vol. 139; p. 222.
- Tinware and for the recovery of solder therefrom, Method and apparatus for cleansing articles of refuse. J. W. Evans. No. 935,477; Sept. 28; Sp. p. 5016; Gaz. vol. 146; p. 886.
- Tip-cat. J. F. Carey. No. 910,903; Jan. 26; Sp. p. 5048; Gaz. vol. 138; p. 909.
- Tipple. J. L. Green. No. 919,852; Apr. 27; Sp. p. 6213; Gaz. vol. 141; p. 1060.
- Tire. E. T. Greenfield. No. 909,180; Jan. 12; Sp. p. 1547; Gaz. vol. 138; p. 279.
- Tire. L. M. Nelson. No. 911,257; Feb. 2; Sp. p. 467; Gaz. vol. 139; p. 80.
- Tire. T. Midgley. No. 913,220; Feb. 23; Sp. p. 4529; Gaz. vol. 139; p. 815.
- Tire. R. R. Brown. No. 916,264; Mar. 23; Sp. p. 5297; Gaz. vol. 140; p. 937.
- Tire. J. T. Carithers. No. 916,668; Mar. 30; Sp. p. 6116; Gaz. vol. 140; p. 1095.
- Tire. H. E. Schindler. No. 917,493; Apr. 6; Sp. p. 1050; Gaz. vol. 141; p. 184.
- Tire. E. Kempshall. No. 917,734; Apr. 6; Sp. p. 1504; Gaz. vol. 141; p. 263.
- Tire. N. Macbeth. No. 918,684; Apr. 20; Sp. p. 3588; Gaz. vol. 141; p. 637.
- Tire. F. J. Gostlin and L. Mueller, Jr. No. 918,846; Apr. 20; Sp. p. 3921; Gaz. vol. 141; p. 691.
- Tire. J. C. Taylor. No. 920,216; May 4; Sp. p. 252; Gaz. vol. 142; p. 40.
- Tire. G. T. Beckers. No. 920,523; May 4; Sp. p. 870; Gaz. vol. 142; p. 140.
- Tire. C. H. Keiffer. No. 925,580; June 22; Sp. p. 5195; Gaz. vol. 143; p. 915.
- Tire. J. C. Raymond. No. 926,439; June 29; Sp. p. 7002; Gaz. vol. 143; p. 1233.
- Tire. C. L. Schwarz. No. 927,006; July 6; Sp. p. 624; Gaz. vol. 144; p. 102.
- Tire. K. Karlström and G. Holmqvist. No. 927,355; July 6; Sp. p. 1309; Gaz. vol. 144; p. 217.
- Tire. J. C. Barker. No. 927,477; July 13; Sp. p. 1588; Gaz. vol. 144; p. 286.
- Tire. S. S. Childs. No. 929,122; July 27; Sp. p. 5011; Gaz. vol. 144; p. 891.
- Tire. G. H. Gillette. No. 929,418; July 27; Sp. p. 5640; Gaz. vol. 144; p. 990.
- Tire. G. E. Miller and C. M. Wheaton. No. 929,620; July 27; Sp. p. 6026; Gaz. vol. 144; p. 1055.
- Tire. W. H. Bachtel. No. 931,716; Aug. 24; Sp. p. 4433; Gaz. vol. 145; p. 772.
- Tire. J. A. Bowden. No. 931,989; Aug. 24; Sp. p. 5028; Gaz. vol. 145; p. 861.
- Tire. J. S. Stevenson. No. 934,472; Sept. 21; Sp. p. 3031; Gaz. vol. 146; p. 528.
- Tire. V. E. Van Cantfort. No. 934,639; Sept. 21; Sp. p. 3361; Gaz. vol. 146; p. 585.
- Tire. C. F. McLean. No. 935,126; Sept. 28; Sp. p. 4336; Gaz. vol. 146; p. 774.
- Tire. D. F. Dinkle. No. 935,192; Sept. 28; Sp. p. 4463; Gaz. vol. 146; p. 794.
- Tire. L. M. Nelson. No. 935,396; Sept. 28; Sp. p. 4868; Gaz. vol. 146; p. 861.
- Tire. G. W. Sharpe. No. 935,613; Sept. 28; Sp. p. 5320; Gaz. vol. 146; p. 933.
- Tire. W. B. Connell. No. 936,416; Oct. 12; Sp. p. 1711; Gaz. vol. 147; p. 288.
- Tire. H. L. Walbridge. No. 936,837; Oct. 12; Sp. p. 2583; Gaz. vol. 147; p. 431.
- Tire. D. Moriarty. No. 936,924; Oct. 12; Sp. p. 2748; Gaz. vol. 147; p. 459.
- Tire. W. D. Harris. No. 940,528; Nov. 16; Sp. p. 4628; Gaz. vol. 148; p. 772.
- Tire. A. T. Tizard. No. 941,289; Nov. 23; Sp. p. 6279; Gaz. vol. 148; p. 1051.

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 Tire. J. C. Taylor. No. 942,149; Dec. 7; Sp. p. 270; Gaz. vol. 149; p. 41.  
 Tire. W. R. and T. S. Stewart. No. 942,418; Dec. 7; Sp. p. 804; Gaz. vol. 149; p. 131.  
 Tire. J. G. Maxwell. No. 942,654; Dec. 7; Sp. p. 1297; Gaz. vol. 149; p. 212.  
 Tire. F. W. Litchfield. No. 943,358; Dec. 14; Sp. p. 2855; Gaz. vol. 149; p. 480.  
 Tire-adjuster. A. A. Long. No. 927,254; July 6; Sp. p. 1145; Gaz. vol. 144; p. 186.  
 Tire air-tube. J. Rees. No. 913,850; Mar. 2; Sp. p. 362; Gaz. vol. 140; p. 61.  
 Tire and tightening means, Pneumatic. H. M. Hartman. No. 927,793; July 13; Sp. p. 2267; Gaz. vol. 144; p. 391.  
 Tire and tightening means therefor, Vehicle. G. A. Krohn. No. 939,037; Nov. 2; Sp. p. 1264; Gaz. vol. 148; p. 203.  
 Tire antiskid device. F. A. Fox. No. 915,943; Mar. 23; Sp. p. 4512; Gaz. vol. 140; p. 801.  
 Tire, Antiskidding. E. Kempshall. No. 917,612; Apr. 6; Sp. p. 1266; Gaz. vol. 141; p. 223.  
 Tire antiskidding attachment, Wheel. G. A. Lyon. No. 924,806; June 15; Sp. p. 3680; Gaz. vol. 143; p. 631.  
 Tire antiskidding device. T. I. Duffy. No. 931,284; Aug. 17; Sp. p. 3529; Gaz. vol. 145; p. 609.  
 Tire antislipping attachment. M. J. Frambach. No. 939,491; Nov. 9; Sp. p. 2317; Gaz. vol. 148; p. 384.  
 Tire-armor. W. O'Neil. No. 924,924; June 15; Sp. p. 3921; Gaz. vol. 143; p. 670.  
 Tire-armor. R. W. Welty. No. 925,405; June 15; Sp. p. 4840; Gaz. vol. 143; p. 827.  
 Tire-armor. W. J. Belyea. No. 927,447; July 6; Sp. p. 1505; Gaz. vol. 144; p. 249.  
 Tire-armor. R. E. Johnson. No. 937,812; Oct. 26; Sp. p. 4614; Gaz. vol. 147; p. 799.  
 Tire-armor. B. F. Ginn. No. 940,591; Nov. 16; Sp. p. 4761; Gaz. vol. 148; p. 793.  
 Tire-armor. S. S. Childs. No. 943,002; Dec. 14; Sp. p. 2096; Gaz. vol. 149; p. 360.  
 Tire armor, Pneumatic. C. E. Evans. No. 928,433; July 20; Sp. p. 3600; Gaz. vol. 144; p. 637.  
 Tire armor, Pneumatic. L. W. Galloway. No. 938,311; Oct. 26; Sp. p. 5689; Gaz. vol. 147; p. 968.  
 Tire, Armored. S. T. Moser. No. 928,064; July 13; Sp. p. 2828; Gaz. vol. 144; p. 482.  
 Tire, Automobile. F. E. Modlin. No. 912,399; Feb. 16; Sp. p. 2848; Gaz. vol. 139; p. 517.  
 Tire, Automobile. J. Shaw. No. 912,422; Feb. 16; Sp. p. 2889; Gaz. vol. 139; p. 524.  
 Tire, Automobile. B. R. G. Darré. No. 916,678; Mar. 30; Sp. p. 6136; Gaz. vol. 140; p. 1099.  
 Tire, Automobile. M. Hanford and D. L. Taylor. No. 920,735; May 4; Sp. p. 1307; Gaz. vol. 142; p. 211.  
 Tire, Automobile. H. Parsons. No. 921,151; May 11; Sp. p. 2149; Gaz. vol. 142; p. 378.  
 Tire, Automobile. C. E. La Fleur. No. 931,879; Aug. 24; Sp. p. 4768; Gaz. vol. 145; p. 824.  
 Tire, Automobile. I. B. Kempshall. No. 942,567; Dec. 7; Sp. p. 1124; Gaz. vol. 149; p. 182.  
 Tire, Automobile. I. B. Kempshall. No. 943,025; Dec. 14; Sp. p. 2148; Gaz. vol. 149; p. 368.  
 Tire, Automobile. W. G. Dicker. No. 943,396; Dec. 14; Sp. p. 2924; Gaz. vol. 149; p. 493.  
 Tire, Automobile. C. E. W. Woodward. No. 943,505; Dec. 14; Sp. p. 3166; Gaz. vol. 149; p. 532.  
 Tire, Automobile. W. J. Bauer. No. 944,308; Dec. 28; Sp. p. 4879; Gaz. vol. 149; p. 860.  
 Tire-bolt. J. M. Fellows. No. 916,133; Mar. 23; Sp. p. 5052; Gaz. vol. 140; p. 895.  
 Tire-bolt wrench. B. Langlotz. No. 923,538; June 1; Sp. p. 939; Gaz. vol. 143; p. 146.  
 Tire-bolt wrench. G. Lindahl. No. 937,944; Oct. 26; Sp. p. 4889; Gaz. vol. 147; p. 844.  
 Tire-case. F. E. Bowers. No. 915,069; Mar. 16; Sp. p. 2898; Gaz. vol. 140; p. 517.  
 Tire-case. P. Evans. No. 935,647; Oct. 5; Sp. p. 41; Gaz. vol. 147; p. 9.  
 Tire case, Spare. F. E. Bowers. No. 915,265; Mar. 16; Sp. p. 3330; Gaz. vol. 140; p. 582.  
 Tire case, Spare. A. H. Kinder. No. 926,499; June 29; Sp. p. 7094; Gaz. vol. 143; p. 1252.  
 Tire case, Spare. J. J. Murray. No. 940,543; Nov. 16; Sp. p. 4671; Gaz. vol. 148; p. 777.  
 Tire-casing. J. F. Palmer. No. 924,186; June 8; Sp. p. 2380; Gaz. vol. 143; p. 390.  
 Tire-casing. J. F. Palmer. No. 924,267; June 8; Sp. p. 2566; Gaz. vol. 143; p. 413.  
 Tire-casing. J. F. Palmer. No. 924,268; June 8; Sp. p. 2569; Gaz. vol. 143; p. 413.  
 Tire-casing. J. F. Palmer. No. 924,571; June 8; Sp. p. 3163; Gaz. vol. 143; p. 517.  
 Tire casing, Pneumatic. J. H. Seiberling. No. 932,815; Aug. 31; Sp. p. 6753; Gaz. vol. 145; p. 1158.  
 Tire construction. G. E. Garon. No. 937,787; Oct. 26; Sp. p. 4572; Gaz. vol. 147; p. 792.  
 Tire-contour-recorder, Wheel. W. C. Arp and F. F. Hildreth. No. 935,728; Oct. 5; Sp. p. 220; Gaz. vol. 147; p. 36.  
 Tire-cover and fastening therefor. G. R. Brown. No. 931,674; Aug. 17; Sp. p. 4296; Gaz. vol. 145; p. 734.  
 Tire cover, Spare. H. Cohen. No. 922,669; May 25; Sp. p. 5295; Gaz. vol. 142; p. 936.  
 Tire, Cushion. C. Weiland. No. 919,661; Apr. 27; Sp. p. 5810; Gaz. vol. 141; p. 997.  
 Tire, Cushion. W. E. Marengo. No. 939,524; Nov. 9; Sp. p. 2379; Gaz. vol. 148; p. 395.  
 Tire, Cushion. G. G. Hayes. No. 940,460; Nov. 16; Sp. p. 4484; Gaz. vol. 148; p. 749.  
 Tire, Cushion. C. O. Baughman. No. 940,919; Nov. 23; Sp. p. 5468; Gaz. vol. 148; p. 927.  
 Tire detachable securing means. J. Baker. No. 913,251; Feb. 23; Sp. p. 4602; Gaz. vol. 139; p. 825.  
 Tire detachable securing means. J. Baker. No. 913,252; Feb. 23; Sp. p. 4605; Gaz. vol. 139; p. 826.  
 Tire detachable securing means. J. Baker. No. 913,253; Feb. 23; Sp. p. 4606; Gaz. vol. 139; p. 826.  
 Tire detachable securing means. J. Baker. No. 913,254; Feb. 23; Sp. p. 4607; Gaz. vol. 139; p. 826.  
 Tire detachable tread, Automobile. T. M. Davey. No. 938,371; Oct. 26; Sp. p. 5825; Gaz. vol. 147; p. 989.  
 Tire, Elastic. A. Bonnaz. No. 942,881; Dec. 14; Sp. p. 1803; Gaz. vol. 149; p. 319.  
 Tire, Elastic vehicle. C. Motz. No. 925,937; June 22; Sp. p. 5973; Gaz. vol. 143; p. 1031.  
 Tire, Elastic vehicle. C. A. Motz. No. 926,012; June 22; Sp. p. 6109; Gaz. vol. 143; p. 1056.  
 Tire, Elastic wheel. J. Dheyne and A. Bovy. No. 943,964; Dec. 21; Sp. p. 4150; Gaz. vol. 149; p. 719.  
 Tire fabrics, Weaving. E. Herkner. No. 923,520; June 1; Sp. p. 904; Gaz. vol. 143; p. 138.  
 Tire-fastener. L. M. Nelson. No. 939,619; Nov. 9; Sp. p. 2596; Gaz. vol. 148; p. 427.  
 Tire-filling compound. F. M. Willett. No. 927,304; July 6; Sp. p. 1228; Gaz. vol. 144; p. 202.  
 Tire-fluid container. C. E. Singleton. No. 929,255; July 27; Sp. p. 5274; Gaz. vol. 144; p. 935.  
 Tire for automobiles and other vehicles, Pneumatic. C. A. Lewis. No. 933,715; Sept. 7; Sp. p. 1541; Gaz. vol. 146; p. 233.  
 Tire for vehicle-wheels, Cushion. J. H. Poole. No. 942,842; Dec. 7; Sp. p. 1668; Gaz. vol. 149; p. 273.  
 Tire for vehicle-wheels, Elastic. B. M. de Sá. No. 939,327; Nov. 9; Sp. p. 1933; Gaz. vol. 148; p. 330.  
 Tire for vehicles, Cushion. E. E. Euchenhofer. No. 941,508; Nov. 30; Sp. p. 6757; Gaz. vol. 148; p. 1144.  
 Tire for vehicles, Metallic elastic. G. Magaldi. No. 936,142; Oct. 5; Sp. p. 1147; Gaz. vol. 147; p. 174.  
 Tire for vehicles, Removable. A. M. Condit. No. 924,429; June 8; Sp. p. 2881; Gaz. vol. 143; p. 471.  
 Tire for vehicles, Resilient. G. O. Draper. No. 941,015; Nov. 23; Sp. p. 5681; Gaz. vol. 148; p. 959.  
 Tire grip-tread, Elastic. T. H. Curtis. No. 925,161; June 15; Sp. p. 4398; Gaz. vol. 143; p. 751.  
 Tire grip-tread, Pneumatic. W. P. Shattuck. No. 913,674; Feb. 23; Sp. p. 5496; Gaz. vol. 139; p. 968.  
 Tire grip, Vehicle. E. J. Williams. No. 917,228; Apr. 6; Sp. p. 544; Gaz. vol. 141; p. 95.  
 Tire-heater. G. M. Smallwood. No. 916,209; Mar. 23; Sp. p. 5191; Gaz. vol. 140; p. 919.  
 Tire-inflating device. E. Hayne. No. 929,020; Nov. 2; Sp. p. 1280; Gaz. vol. 148; p. 196.  
 Tire-inflation mechanism. F. A. Deunert. No. 930,273; Aug. 3; Sp. p. 1319; Gaz. vol. 145; p. 218.  
 Tire inner tube, Pneumatic. M. Culmore. No. 919,135; Apr. 20; Sp. p. 4496; Gaz. vol. 141; p. 785.  
 Tire inner tube, Pneumatic. H. K. Raymond. No. 931,648; Aug. 17; Sp. p. 4247; Gaz. vol. 145; p. 726.  
 Tire, Metallic. G. E. Fortescue. No. 924,156; June 8; Sp. p. 2315; Gaz. vol. 143; p. 380.  
 Tire metallic tread, Pneumatic. M. C. St. John. No. 909,475; Jan. 12; Sp. p. 2109; Gaz. vol. 138; p. 374.  
 Tire-mold. P. D. Thropp. No. 911,182; Feb. 2; Sp. p. 307; Gaz. vol. 139; p. 55.  
 Tire mounting, Pneumatic. C. G. Hawley and E. K. Baker. No. 915,954; Mar. 23; Sp. p. 4714; Gaz. vol. 140; p. 837.  
 Tire, Non-puncturable pneumatic. E. A. Storey. No. 910,094; Jan. 19; Sp. p. 3346; Gaz. vol. 138; p. 616.  
 Tire, Non-skid. E. Kempshall. No. 928,868; July 20; Sp. p. 4479; Gaz. vol. 144; p. 780.  
 Tire, Non-skidding. E. Kempshall. No. 917,613; Apr. 6; Sp. p. 1267; Gaz. vol. 141; p. 223.  
 Tire outer cover, Pneumatic. P. L. Desprez. No. 909,992; Jan. 19; Sp. p. 3150; Gaz. vol. 138; p. 582.  
 Tire-patch. J. A. Wheeler. No. 925,969; June 22; Sp. p. 6030; Gaz. vol. 143; p. 1042.  
 Tire patch, Vehicle. O. W. Wiles. No. 915,918; Mar. 23; Sp. p. 4649; Gaz. vol. 140; p. 825.  
 Tire-plug. R. Sampson. No. 923,896; June 8; Sp. p. 1779; Gaz. vol. 143; p. 296.  
 Tireplug, Pneumatic. J. Glanz. No. 931,056; Aug. 17; Sp. p. 3021; Gaz. vol. 145; p. 531.  
 Tire, Pneumatic. J. L. Newell. No. 908,488; Jan. 5; Sp. p. 108; Gaz. vol. 138; p. 20.  
 Tire, Pneumatic. C. E. W. Woodward. No. 910,441; Jan. 19; Sp. p. 4106; Gaz. vol. 138; p. 736.  
 Tire, Pneumatic. E. J. Hicks. No. 911,041; Feb. 2; Sp. p. 35; Gaz. vol. 139; p. 8.  
 Tire, Pneumatic. G. J. Paynter. No. 912,725; Feb. 16; Sp. p. 3556; Gaz. vol. 139; p. 629.  
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 Tire, Pneumatic. J. T. Kennelly. No. 919,594; Apr. 27; Sp. p. 5669; Gaz. vol. 141; p. 975.  
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Tire, Pneumatic. G. Jacobs. No. 921,710; May 18; Sp. p. 3333; Gaz. vol. 142; p. 593.  
Tire, Pneumatic. F. Reddaway. No. 922,631; May 25; Sp. p. 5221; Gaz. vol. 143; p. 924.  
Tire, Pneumatic. A. Latimer. No. 923,279; June 1; Sp. p. 393; Gaz. vol. 143; p. 55.  
Tire, Pneumatic. F. H. Perry. No. 924,102; June 8; Sp. p. 2159; Gaz. vol. 143; p. 361.  
Tire, Pneumatic. J. F. Palmer. No. 924,572; June 8; Sp. p. 3167; Gaz. vol. 143; p. 517.  
Tire, Pneumatic. D. McArthur. No. 924,812; June 15; Sp. p. 3692; Gaz. vol. 143; p. 632.  
Tire, Pneumatic. M. Marcell. No. 926,347; June 29; Sp. p. 6830; Gaz. vol. 143; p. 1202.  
Tire, Pneumatic. R. J. Ruths. No. 928,334; July 20; Sp. p. 3430; Gaz. vol. 144; p. 604.  
Tire, Pneumatic. P. I. Viel. No. 929,351; July 27; Sp. p. 5536; Gaz. vol. 144; p. 970.  
Tire, Pneumatic. J. L. Maitland. No. 939,428; Nov. 9; Sp. p. 2191; Gaz. vol. 148; p. 364.  
Tire, Pneumatic. C. M. Gautier. No. 941,871; Nov. 30; Sp. p. 7537; Gaz. vol. 148; p. 1268.  
Tire, Pneumatic. P. G. Muenchinger. No. 942,734; Dec. 7; Sp. p. 1452; Gaz. vol. 149; p. 238.  
Tire, Pneumatic. A. F. Angelicola. No. 943,371; Dec. 14; Sp. p. 2877; Gaz. vol. 149; p. 484.  
Tire, Pneumatic. A. Latimer. No. 943,640; Dec. 14; Sp. p. 3485; Gaz. vol. 149; p. 579.  
Tire, Pneumatic wheel. J. Neff, Sr. No. 932,310; Aug. 24; Sp. p. 5675; Gaz. vol. 145; p. 968.  
Tire pressure-gage, Pneumatic. C. R. Twitchell. No. 927,298; July 6; Sp. p. 1217; Gaz. vol. 144; p. 200.  
Tire protective cover or armor, Pneumatic. F. J. Moran. No. 913,752; Mar. 2; Sp. p. 162; Gaz. vol. 140; p. 27.  
Tire protective device, Rubber. H. W. Harding. No. 914,141; Mar. 2; Sp. p. 1040; Gaz. vol. 140; p. 164.  
Tire protective rivet. E. B. Stimpson. No. 925,052; June 15; Sp. p. 4192; Gaz. vol. 143; p. 713.  
Tire protective rivet. E. B. Stimpson. No. 935,332; Sept. 28; Sp. p. 4736; Gaz. vol. 146; p. 840.  
Tire protective rivet. E. B. Stimpson. No. 940,085; Nov. 16; Sp. p. 3635; Gaz. vol. 148; p. 620.  
Tire-protector. G. C. Hoskin. No. 911,984; Feb. 9; Sp. p. 1965; Gaz. vol. 139; p. 345.  
Tire-protector. E. J. Weidner. No. 922,739; May 25; Sp. p. 5444; Gaz. vol. 142; p. 958.  
Tire-protector. F. H. Davis. No. 926,104; June 29; Sp. p. 6320; Gaz. vol. 143; p. 1122.  
Tire-protector. W. Green. No. 927,787; July 13; Sp. p. 2253; Gaz. vol. 144; p. 389.  
Tire-protector. C. E. Kimball. No. 927,980; July 13; Sp. p. 2661; Gaz. vol. 144; p. 453.  
Tire-protector. D. Day. No. 933,748; Sept. 14; Sp. p. 1621; Gaz. vol. 146; p. 267.  
Tire-protector. F. R. and C. R. Colvin. No. 939,474; Nov. 9; Sp. p. 2290; Gaz. vol. 148; p. 379.  
Tire-protector. F. Vacher. No. 942,682; Dec. 7; Sp. p. 1345; Gaz. vol. 149; p. 221.  
Tire-protector. C. E. King. No. 943,026; Dec. 14; Sp. p. 2149; Gaz. vol. 149; p. 368.  
Tire-protector. J. Richardson. No. 943,463; Dec. 14; Sp. p. 3070; Gaz. vol. 149; p. 516.  
Tire-protector anchor. S. G. Wolfe. No. 938,587; Nov. 2; Sp. p. 220; Gaz. vol. 143; p. 32.  
Tire protector and reinforcement, Pneumatic. W. J. O'Neill. No. 919,938; Apr. 27; Sp. p. 6368; Gaz. vol. 141; p. 1088.  
Tire protector, Automobile. A. B. Boughan. No. 923,322; June 1; Sp. p. 495; Gaz. vol. 143; p. 71.  
Tire protector, Pneumatic. J. O. Getz. No. 909,884; Jan. 19; Sp. p. 2926; Gaz. vol. 138; p. 545.  
Tire protector, Rubber. H. R. Palmer. (Reissue.) No. 13,045; Nov. 23; Sp. p. 6406; Gaz. vol. 148; p. 1071.  
Tire puncture-indicating device. J. L. Marmaud. No. 926,757; July 6; Sp. p. 104; Gaz. vol. 144; p. 16.  
Tire, Puncture-proof. E. J. C. Timmerman. No. 923,733; June 1; Sp. p. 1357; Gaz. vol. 143; p. 212.  
Tire-remover. H. B. Young and R. Palomino. No. 944,760; Dec. 28; Sp. p. 5896; Gaz. vol. 149; p. 1016.  
Tire remover and replacer. H. M. Owens. No. 933,106; Sept. 7; Sp. p. 145; Gaz. vol. 146; p. 24.  
Tire-repair device. O. C. Reich. No. 928,069; July 13; Sp. p. 2835; Gaz. vol. 144; p. 483.  
Tire repairer, Rubber. J. M. Padgett. No. 913,043; Feb. 23; Sp. p. 4178; Gaz. vol. 139; p. 756.  
Tire-repairing apparatus, Pneumatic. W. J. Stark. No. 919,391; Apr. 27; Sp. p. 5218; Gaz. vol. 141; p. 904.  
Tire, Resilient. J. Guetton. No. 916,440; Mar. 30; Sp. p. 5641; Gaz. vol. 140; p. 1022.  
Tire, Resilient. N. H. Hassel. No. 923,516; June 1; Sp. p. 898; Gaz. vol. 143; p. 137.  
Tire, Resilient. O. L. Leach. No. 926,338; June 29; Sp. p. 6816; Gaz. vol. 143; p. 1199.  
Tire, Resilient. H. Klingler. (Reissue.) No. 13,028; Oct. 26; Sp. p. 6032; Gaz. vol. 147; p. 1018.  
Tire, Resilient. W. H. Rowling. No. 939,638; Nov. 9; Sp. p. 2638; Gaz. vol. 148; p. 435.  
Tire-retaining flanges, Securing device for. R. S. Bryant. No. 912,537; Feb. 16; Sp. p. 3138; Gaz. vol. 139; p. 563.  
Tire-rim, Demountable. A. Dow. No. 922,402; May 18; Sp. p. 4732; Gaz. vol. 142; p. 820.  
Tire-rim, Demountable. A. Dow. No. 922,404; May 18; Sp. p. 4738; Gaz. vol. 142; p. 821.  
Tire-rims, Locking device for demountable. A. Dow. No. 922,403; May 18; Sp. p. 4736; Gaz. vol. 142; p. 821.  
Tire, Rubber vehicle. C. O. Henderson. No. 918,550; Apr. 20; Sp. p. 3245; Gaz. vol. 141; p. 591.  
Tire sealing composition, Vehicle. W. W. McCord, G. F. Clark, and P. M. Hall. No. 918,189; Apr. 13; Sp. p. 2484; Gaz. vol. 141; p. 444.  
Tire-setter. H. M. Lourie, J. W. Devero, and J. C. Ford. No. 928,264; July 20; Sp. p. 3262; Gaz. vol. 144; p. 579.  
Tire setter, Rubber. C. A. Maynard. No. 929,617; July 27; Sp. p. 6020; Gaz. vol. 144; p. 1054.  
Tire-setting machine. H. T. Henderson and H. M. Lourie. No. 933,834; Sept. 14; Sp. p. 1775; Gaz. vol. 146; p. 294.  
Tire-setting machine. D. R. Evans. No. 936,435; Oct. 12; Sp. p. 1775; Gaz. vol. 147; p. 295.  
Tire-sheathing. J. Marti. No. 918,350; Apr. 13; Sp. p. 2817; Gaz. vol. 141; p. 498.  
Tire-shield. J. Burmeister. No. 911,203; Feb. 2; Sp. p. 356; Gaz. vol. 139; p. 62.  
Tire-shield. A. V. Nutt. No. 919,752; Apr. 27; Sp. p. 5976; Gaz. vol. 141; p. 1027.  
Tire-shield. J. H. Fletcher. No. 929,203; July 27; Sp. p. 5179; Gaz. vol. 144; p. 918.  
Tire-shield. O. A. F. Mittelstädt. No. 940,343; Nov. 16; Sp. p. 4212; Gaz. vol. 148; p. 710.  
Tire shield, Pneumatic. F. W. Kruger. No. 928,986; July 27; Sp. p. 4723; Gaz. vol. 144; p. 847.  
Tire shield, Rubber. D. E. Walker. No. 920,699; May 4; Sp. p. 1251; Gaz. vol. 142; p. 199.  
Tire shield, Rubber. D. E. Walker. No. 920,795; May 4; Sp. p. 1423; Gaz. vol. 142; p. 230.  
Tire shoe-manufacturing machine, Pneumatic. W. C. State. No. 941,962; Nov. 30; Sp. p. 7708; Gaz. vol. 148; p. 1299.  
Tire signal, Pneumatic. S. Silverman and J. E. Trahan. No. 928,553; July 20; Sp. p. 3849; Gaz. vol. 144; p. 674.  
Tire, Single-tube pneumatic. J. A. Swinehart. No. 909,962; Jan. 19; Sp. p. 3095; Gaz. vol. 138; p. 572.  
Tire, Spring. R. M. Spencer. No. 940,904; Nov. 23; Sp. p. 5440; Gaz. vol. 148; p. 922.  
Tire, Spring. W. L. Johns. No. 941,926; Nov. 30; Sp. p. 7641; Gaz. vol. 148; p. 1287.  
Tire-supporter. S. T. Coate and J. T. Saris. No. 943,341; Dec. 14; Sp. p. 2821; Gaz. vol. 149; p. 475.  
Tire-tool. J. A. Swinehart. No. 922,541; May 25; Sp. p. 5037; Gaz. vol. 142; p. 894.  
Tire-tool. A. C. Webber. No. 929,905; Aug. 3; Sp. p. 610; Gaz. vol. 145; p. 96.  
Tire-tool. H. J. Phillips. No. 934,461; Sept. 21; Sp. p. 3014; Gaz. vol. 146; p. 525.  
Tire, Traction. C. Stephens. No. 924,701; June 15; Sp. p. 3458; Gaz. vol. 143; p. 595.  
Tire-tread. J. R. Sanford and J. G. Doughty. No. 929,632; July 27; Sp. p. 6052; Gaz. vol. 144; p. 1059.  
Tire-tread. C. L. Rempes. No. 933,110; Sept. 7; Sp. p. 155; Gaz. vol. 146; p. 26.  
Tire-tread attachment. F. A. Fox. No. 915,839; Mar. 23; Sp. p. 4505; Gaz. vol. 140; p. 800.  
Tire-tread attachment. F. A. Fox. No. 915,840; Mar. 23; Sp. p. 4507; Gaz. vol. 140; p. 800.  
Tire-tread attachment. F. A. Fox. No. 915,841; Mar. 23; Sp. p. 4508; Gaz. vol. 140; p. 800.  
Tire-tread attachment. F. A. Fox. No. 915,842; Mar. 23; Sp. p. 4510; Gaz. vol. 140; p. 801.  
Tire tubes or covers, Vulcanizing apparatus for. W. R. S. Frost. No. 926,695; June 29; Sp. p. 7474; Gaz. vol. 143; p. 1317.  
Tire-upsetter. J. H. MacDonald. No. 931,325; Aug. 17; Sp. p. 3612; Gaz. vol. 145; p. 623.  
Tire-upsetting and wire-twisting machine, Automatic. J. W. Peplinski. No. 930,987; Aug. 10; Sp. p. 2831; Gaz. vol. 145; p. 478.  
Tire valve, Pneumatic. E. Dubied. No. 929,571; July 27; Sp. p. 5912; Gaz. vol. 144; p. 1039.  
Tire, Vehicle. W. A. Kóneman. No. 913,295; Feb. 23; Sp. p. 4682; Gaz. vol. 139; p. 840.  
Tire, Vehicle. W. D. McNaull. No. 914,599; Mar. 9; Sp. p. 1984; Gaz. vol. 140; p. 338.  
Tire, Vehicle. B. Ross. No. 916,784; Mar. 30; Sp. p. 6322; Gaz. vol. 140; p. 1129.  
Tire, Vehicle. D. P. Boyd. No. 918,820; Apr. 20; Sp. p. 3869; Gaz. vol. 141; p. 682.  
Tire, Vehicle. J. Lend. No. 919,603; Apr. 27; Sp. p. 5685; Gaz. vol. 141; p. 977.  
Tire, Vehicle. A. M. MacFarland. No. 923,059; May 25; Sp. p. 6112; Gaz. vol. 142; p. 1061.  
Tire, Vehicle. B. C. Swinehart. No. 926,969; July 6; Sp. p. 544; Gaz. vol. 144; p. 89.  
Tire, Vehicle. J. G. Cramer. No. 927,122; July 6; Sp. p. 886; Gaz. vol. 144; p. 143.  
Tire, Vehicle. D. Pollard. No. 927,676; July 13; Sp. p. 2031; Gaz. vol. 144; p. 353.  
Tire, Vehicle. W. A. Kóneman. No. 928,611; July 20; Sp. p. 3976; Gaz. vol. 144; p. 694.  
Tire, Vehicle. M. Behrer. No. 928,731; July 20; Sp. p. 4210; Gaz. vol. 144; p. 733.  
Tire, Vehicle. C. H. Knecht. No. 935,033; Sept. 28; Sp. p. 4134; Gaz. vol. 146; p. 741.  
Tire, Vehicle. C. F. Fisk. No. 938,999; Nov. 2; Sp. p. 1187; Gaz. vol. 148; p. 190.  
Tire, Vehicle. C. O. Henderson. No. 940,014; Nov. 16; Sp. p. 3443; Gaz. vol. 148; p. 594.

*Alphabetical list of inventions—Continued.*

- Tire, Vehicle-. T. H. Banks. No. 943,173; Dec. 14; Sp. p. 2457; Gaz. vol. 149; p. 417.  
 Tire, Vehicle-. T. W. Lucke. No. 943,430; Dec. 14; Sp. p. 2991; Gaz. vol. 149; p. 504.  
 Tire, Vehicle-wheel. E. Kempshall. No. 917,733; Apr. 6; Sp. p. 1503; Gaz. vol. 141; p. 263.  
 Tire, Vehicle-wheel. G. W. Lilley. No. 925,711; June 22; Sp. p. 5481; Gaz. vol. 143; p. 951.  
 Tire, Vehicle-wheel. H. M. and T. J. Deeth. No. 935,093; Sept. 28; Sp. p. 4273; Gaz. vol. 146; p. 763.  
 Tire, Vehicle-wheel. F. A. Seiberling. No. 937,186; Oct. 19; Sp. p. 3302; Gaz. vol. 147; p. 574.  
 Tire, Vehicle-wheel. T. Midgley. No. 939,610; Nov. 9; Sp. p. 2581; Gaz. vol. 148; p. 424.  
 Tire, Vehicle-wheel. T. Midgley. No. 939,611; Nov. 9; Sp. p. 2583; Gaz. vol. 148; p. 424.  
 Tire, Vehicle-wheel. J. A. Boyejean. No. 942,364; Dec. 7; Sp. p. 701; Gaz. vol. 149; p. 114.  
 Tire, Wheel-. R. F. Bryant. No. 910,457; Jan. 19; Sp. p. 4139; Gaz. vol. 138; p. 742.  
 Tire, Wheel-. J. Christy. No. 914,551; Mar. 9; Sp. p. 1891; Gaz. vol. 140; p. 322.  
 Tire, Wheel-. A. R. Bangs. No. 923,104; May 25; Sp. p. 6201; Gaz. vol. 142; p. 1075.  
 Tire, Wheel-. J. D. Marvil. No. 925,930; June 22; Sp. p. 5963; Gaz. vol. 143; p. 1029.  
 Tire, Wheel-. A. Birnbaum. No. 925,965; June 22; Sp. p. 6059; Gaz. vol. 143; p. 1048.  
 Tire, Wheel-. F. L. Berg. No. 941,058; Nov. 23; Sp. p. 5769; Gaz. vol. 148; p. 974.  
 Tire, Wheel-. H. L. McDuffee. No. 943,446; Dec. 14; Sp. p. 3041; Gaz. vol. 149; p. 511.  
 Tire, Wheel-. J. S. Cushing. No. 943,816; Dec. 21; Sp. p. 3837; Gaz. vol. 149; p. 667.  
 Tires and tubes, Making rubber. F. A. Magowan. No. 917,958; Apr. 13; Sp. p. 2006; Gaz. vol. 141; p. 365.  
 Tires, Apparatus for manufacturing wheel-. J. K. Williams. No. 943,054; Dec. 14; Sp. p. 2233; Gaz. vol. 149; p. 379.  
 Tires, &c., Chuck for boring and turning locomotive-. G. L. Bennett. No. 921,066; May 11; Sp. p. 1988; Gaz. vol. 142; p. 350.  
 Tires, Coupling for the inflating-valves of pneumatic. C. McNellis. No. 935,048; Sept. 28; Sp. p. 4167; Gaz. vol. 146; p. 747.  
 Tires, Cover for pneumatic and like. H. W. Cave-Browne-Cave. No. 929,193; July 27; Sp. p. 5164; Gaz. vol. 144; p. 915.  
 Tires, cushions, buffers, upholstery, &c., Manufacture of an elastic cellular or spongy material for use as a filling for vehicle-. F. Pfeumer. No. 932,318; Aug. 24; Sp. p. 5693; Gaz. vol. 145; p. 971.  
 Tires, Detachable rim for pneumatic. P. Petracchi. No. 944,906; Dec. 28; Sp. p. 6198; Gaz. vol. 149; p. 1066.  
 Tires, Detachable rim for pneumatic or other. M. A. Lemerclier. No. 932,876; Aug. 31; Sp. p. 6857; Gaz. vol. 145; p. 1177.  
 Tires, Device for inserting balls in. J. S. Summers. No. 912,917; Feb. 16; Sp. p. 3910; Gaz. vol. 139; p. 689.  
 Tires, Flexible and elastic band for pneumatic. P. Roussillon. No. 943,998; Dec. 21; Sp. p. 4241; Gaz. vol. 149; p. 730.  
 Tires for wheels, Manufacturing elastic. T. L. Carbone. No. 931,503; Aug. 17; Sp. p. 4069; Gaz. vol. 145; p. 700.  
 Tires, Gaiter or patch for repairing pneumatic. H. Marles. No. 928,678; July 20; Sp. p. 4112; Gaz. vol. 144; p. 716.  
 Tires, &c., Hose connection for wheel-. E. J. Rohrbacher. No. 928,797; July 20; Sp. p. 4338; Gaz. vol. 144; p. 756.  
 Tires, Machine for beveling air-tubes for pneumatic. A. Olier. No. 918,360; Apr. 13; Sp. p. 2832; Gaz. vol. 141; p. 501.  
 Tires, Making. E. T. Greenfield. No. 909,181; Jan. 12; Sp. p. 1549; Gaz. vol. 138; p. 279.  
 Tires, Making casings for pneumatic vehicle. J. O. King. No. 931,207; Aug. 17; Sp. p. 3350; Gaz. vol. 145; p. 582.  
 Tires, Making inner liners for. B. S. Eshelman. No. 944,722; Dec. 28; Sp. p. 5801; Gaz. vol. 149; p. 1003.  
 Tires, Means for holding and inflating pneumatic. F. W. Stanley. No. 937,884; Oct. 26; Sp. p. 4764; Gaz. vol. 147; p. 824.  
 Tires, Metallic protector for pneumatic. E. A. Hultberg. No. 942,500; Dec. 7; Sp. p. 997; Gaz. vol. 149; p. 160.  
 Tires of automobiles and other vehicles, Means for securing the. A. J. Michelin. No. 927,266; July 6; Sp. p. 1162; Gaz. vol. 144; p. 190.  
 Tires, Portable apparatus and process for vulcanized repairs of pneumatic. E. Anselmi. No. 918,943; Apr. 20; Sp. p. 4141; Gaz. vol. 141; p. 724.  
 Tires, Puncture-proof attachment for. J. B. Oatman. No. 921,444; May 11; Sp. p. 2782; Gaz. vol. 142; p. 478.  
 Tires, Signal for pneumatic. S. Silverman and J. E. Trahan. No. 944,971; Dec. 28; Sp. p. 6321; Gaz. vol. 149; p. 1086.  
 Tires to rims of wheels, Means to connect. E. B. Mergoux. No. 936,008; Oct. 5; Sp. p. 861; Gaz. vol. 147; p. 130.  
 Tires to wheels, Machine for attaching. H. L. Stoup. No. 930,502; Aug. 10; Sp. p. 1769; Gaz. vol. 145; p. 318.  
 Tires, Valve for pneumatic. G. De Vigne. No. 928,411; July 20; Sp. p. 3563; Gaz. vol. 144; p. 630.  
 Tires, Valve for pneumatic. F. T. Clayton. No. 935,837; Oct. 5; Sp. p. 505; Gaz. vol. 147; p. 72.  
 Tires, Wheel-rim for pneumatic. J. Haynes. No. 944,964; Dec. 28; Sp. p. 6309; Gaz. vol. 149; p. 1083.  
 Tires with spongy material, Filling hollow elastic vehicle-. A. T. Collier. No. 917,545; Apr. 6; Sp. p. 1148; Gaz. vol. 141; p. 200.  
 Tires with viscous liquids, Apparatus for filling rubber. A. D. Ray. No. 944,278; Dec. 28; Sp. p. 4813; Gaz. vol. 149; p. 849.  
 Tires, Woven wrapper for. J. Marcet y Marti. No. 943,557; Dec. 14; Sp. p. 3263; Gaz. vol. 149; p. 549.  
 Titanium oxides, Production of. F. A. J. Fitz Gerald and P. M. Bennie. No. 921,686; May 18; Sp. p. 3297; Gaz. vol. 142; p. 586.  
 Toast-rack. C. P. Conger. No. 940,303; Nov. 16; Sp. p. 4128; Gaz. vol. 148; p. 696.  
 Toaster. O. Schellert. No. 932,584; Aug. 31; Sp. p. 6259; Gaz. vol. 145; p. 1082.  
 Toaster. J. C. Huffman. No. 935,510; Sept. 28; Sp. p. 5105; Gaz. vol. 146; p. 898.  
 Toaster. W. J. Stewart. No. 937,887; Oct. 26; Sp. p. 4771; Gaz. vol. 147; p. 825.  
 Toaster. H. P. Knoblock. No. 943,555; Dec. 14; Sp. p. 3258; Gaz. vol. 149; p. 549.  
 Toaster, Bread-. F. B. Schuyler. No. 944,283; Dec. 28; Sp. p. 4823; Gaz. vol. 149; p. 851.  
 Toaster, Electric. H. E. Bradley. No. 926,714; June 29; Sp. p. 7522; Gaz. vol. 143; p. 1324.  
 Toaster, Electric. W. S. Andrews. No. 936,597; Oct. 12; Sp. p. 2098; Gaz. vol. 147; p. 349.  
 Toaster, Electric. W. S. Andrews. (Reissue.) No. 13,060; Dec. 28; Sp. p. 6404; Gaz. vol. 149; p. 1098.  
 Tobacco, Aging and curing. S. G. Martin. W. O. Bartholomew, and E. Schaaf. No. 942,838; Dec. 7; Sp. p. 1662; Gaz. vol. 149; p. 272.  
 Tobacco-box. I. J. Marcuse and E. S. Clarke. No. 919,742; Apr. 27; Sp. p. 5960; Gaz. vol. 141; p. 1023.  
 Tobacco-box. C. R. Hope. No. 926,944; July 6; Sp. p. 494; Gaz. vol. 144; p. 80.  
 Tobacco-box and cutter, Combined. H. C. Moses. No. 924,569; June 8; Sp. p. 3158; Gaz. vol. 143; p. 516.  
 Tobacco-box, Sheet-metal. G. W. Weber. No. 919,659; Apr. 27; Sp. p. 5807; Gaz. vol. 141; p. 996.  
 Tobacco-box, Sheet-metal. F. Eberhart. No. 928,951; July 27; Sp. p. 4650; Gaz. vol. 144; p. 835.  
 Tobacco-box, Sheet-metal pocket. F. Eberhart. No. 918,519; Apr. 20; Sp. p. 3174; Gaz. vol. 141; p. 582.  
 Tobacco-box, Sheet-metal pocket. F. Rudolph. No. 919,643; Apr. 27; Sp. p. 5757; Gaz. vol. 141; p. 991.  
 Tobacco-box, Sheet-metal pocket. G. W. Weber. No. 919,660; Apr. 27; Sp. p. 5809; Gaz. vol. 141; p. 997.  
 Tobacco-box, Sheet-metal pocket. W. J. Chambers. No. 927,638; July 13; Sp. p. 1943; Gaz. vol. 144; p. 341.  
 Tobacco-cartridge and stem, Combined. B. Ziegler. No. 932,937; Aug. 31; Sp. p. 6977; Gaz. vol. 145; p. 1198.  
 Tobacco-curing stick. J. G. Sharon. No. 912,902; Feb. 16; Sp. p. 3885; Gaz. vol. 139; p. 684.  
 Tobacco-cutter, Rotary. W. A. Hagemeier. No. 931,295; Aug. 17; Sp. p. 3555; Gaz. vol. 145; p. 613.  
 Tobacco-cutting machine. E. Lefevre. No. 920,879; May 4; Sp. p. 1612; Gaz. vol. 142; p. 257.  
 Tobacco-cutting machine. R. E. Rosewarne. No. 925,512; June 22; Sp. p. 5068; Gaz. vol. 143; p. 892.  
 Tobacco-cutting machine. F. M. Beall and P. A. Parker. No. 942,372; Dec. 7; Sp. p. 714; Gaz. vol. 149; p. 116.  
 Tobacco extract, Manufacture of concentrated. C. F. Gloystein. (Reissue.) No. 12,994; July 27; Sp. p. 6087; Gaz. vol. 144; p. 1064.  
 Tobacco-leaf-feeding device. L. P. Whitaker. No. 937,906; Oct. 26; Sp. p. 4807; Gaz. vol. 147; p. 831.  
 Tobacco-leaf-stemming machine. H. R. Gerrie and W. Pender. No. 915,342; Mar. 16; Sp. p. 3476; Gaz. vol. 140; p. 607.  
 Tobacco-leaf-stemming machine. G. P. Butler. No. 920,264; May 4; Sp. p. 367; Gaz. vol. 142; p. 57.  
 Tobacco-leaves, Machine for threading. W. T. Muggli. No. 918,075; Apr. 13; Sp. p. 2268; Gaz. vol. 141; p. 407.  
 Tobacco-pipe. A. Boisaubin. No. 908,940; Jan. 5; Sp. p. 1039; Gaz. vol. 138; p. 167.  
 Tobacco-pipe. C. H. Schroeder. No. 911,766; Feb. 9; Sp. p. 1464; Gaz. vol. 139; p. 273.  
 Tobacco-pipe. W. E. Elam. No. 921,527; May 11; Sp. p. 2941; Gaz. vol. 142; p. 505.  
 Tobacco-pipe. A. L. Drake and D. R. Smith. No. 923,419; June 1; Sp. p. 698; Gaz. vol. 143; p. 103.  
 Tobacco-pipe. H. Lutz. No. 923,674; June 1; Sp. p. 1239; Gaz. vol. 143; p. 191.  
 Tobacco-pipe. G. D. W. Schmidt. No. 924,192; June 8; Sp. p. 2396; Gaz. vol. 143; p. 392.  
 Tobacco-pipe. F. Regenold. No. 925,381; June 15; Sp. p. 4795; Gaz. vol. 143; p. 819.  
 Tobacco-pipe. E. C. Berriman. No. 926,091; June 29; Sp. p. 6294; Gaz. vol. 143; p. 1118.  
 Tobacco-pipe. J. E. Irving. No. 926,873; July 6; Sp. p. 355; Gaz. vol. 144; p. 57.  
 Tobacco-pipe. H. R. White. No. 927,015; July 6; Sp. p. 645; Gaz. vol. 144; p. 105.  
 Tobacco-pipe. T. H. Kerins. No. 932,293; Aug. 24; Sp. p. 5649; Gaz. vol. 145; p. 963.  
 Tobacco-pipe. A. E. Matson. No. 933,091; Sept. 7; Sp. p. 113; Gaz. vol. 146; p. 19.  
 Tobacco-pipe. J. C. Drucklieb. No. 933,240; Sept. 7; Sp. p. 484; Gaz. vol. 146; p. 74.  
 Tobacco-pipe. J. N. Courtney. No. 933,628; Sept. 7; Sp. p. 1360; Gaz. vol. 146; p. 203.  
 Tobacco-pipe. R. Wojan. No. 935,950; Oct. 5; Sp. p. 744; Gaz. vol. 147; p. 110.  
 Tobacco-pipe. J. A. Irving. No. 937,073; Oct. 19; Sp. p. 3057; Gaz. vol. 147; p. 537.  
 Tobacco-pipe. J. E. Irving. No. 939,134; Nov. 2; Sp. p. 1453; Gaz. vol. 148; p. 236.  
 Tobacco-pipe, Magazine. C. A. Allen. No. 919,515; Apr. 27; Sp. p. 5508; Gaz. vol. 141; p. 946.  
 Tobacco-press. A. I. Fjelsted. No. 909,174; Jan. 12; Sp. p. 1533; Gaz. vol. 138; p. 277.  
 Tobacco-press. C. H. Hammond. No. 940,803; Nov. 23; Sp. p. 5242; Gaz. vol. 148; p. 890.  
 Tobacco press, Lump-. C. R. Mahone. No. 911,312; Feb. 2; Sp. p. 569; Gaz. vol. 139; p. 98.



*Alphabetical list of inventions—Continued.*

- Tobacco, Renovating, cleansing, and aromatizing. S. B. Heddles. No. 937,801; Oct. 26; Sp. p. 4594; Gaz. vol. 147; p. 796.
- Tobacco, &c., Sheet-metal pocket-box for. F. Eberhart. No. 918,520; Apr. 20; Sp. p. 3175; Gaz. vol. 141; p. 582.
- Tobacco-sizing machine. K. H. Robinson and C. M. Hubbard. No. 932,327; Aug. 24; Sp. p. 5708; Gaz. vol. 145; p. 974.
- Tobacco-smoking pipe. J. Drew. No. 944,418; Dec. 28; Sp. p. 5122; Gaz. vol. 149; p. 899.
- Tobacco-spearling machine. H. Shinn. No. 933,127; Sept. 7; Sp. p. 186; Gaz. vol. 146; p. 32.
- Tobacco-stemming machine. W. D. Doremus. No. 933,065; Sept. 7; Sp. p. 54; Gaz. vol. 146; p. 10.
- Tobacco-stemming machine. A. Grodsky. No. 933,978; Sept. 14; Sp. p. 2064; Gaz. vol. 146; p. 341.
- Tobacco-stemming machine. F. K. Heupel. No. 937,602; Oct. 19; Sp. p. 4180; Gaz. vol. 147; p. 712.
- Tobacco-stemming machine stemming-roller. F. K. Heupel. No. 937,601; Oct. 19; Sp. p. 4179; Gaz. vol. 147; p. 712.
- Tobacco-stick holder. J. H. Thackston. No. 909,255; Jan. 12; Sp. p. 1682; Gaz. vol. 138; p. 303.
- Tobacco-stick holder. A. B. Lewis. No. 925,585; June 22; Sp. p. 5208; Gaz. vol. 143; p. 916.
- Tobacco-stripper. F. Salomon. No. 919,297; Apr. 20; Sp. p. 5002; Gaz. vol. 141; p. 838.
- Tobacco, Treating. F. S. Smith. No. 924,284; June 8; Sp. p. 2593; Gaz. vol. 143; p. 423.
- Tobacco, &c., Treating. G. Montag. No. 940,181; Nov. 16; Sp. p. 3844; Gaz. vol. 148; p. 653.
- Toe-calk machine. D. G. Wyman. No. 931,364; Aug. 17; Sp. p. 3688; Gaz. vol. 145; p. 637.
- Toe-calks, Apparatus for making. J. C. Snider. No. 911,912; Feb. 9; Sp. p. 1733; Gaz. vol. 139; p. 320.
- Toe-tip protector. G. S. Burgan. No. 938,299; Oct. 26; Sp. p. 5664; Gaz. vol. 147; p. 964.
- Toe-weight. C. J. Geterman. No. 915,849; Mar. 23; Sp. p. 4523; Gaz. vol. 140; p. 803.
- Toggle-lever flask-hinge. S. N. Touchman. No. 933,401; Sept. 7; Sp. p. 828; Gaz. vol. 146; p. 129.
- Toilet. G. J. Burkhardt. No. 933,619; Sept. 7; Sp. p. 1347; Gaz. vol. 146; p. 200.
- Toilet article. C. F. Kohler. No. 912,001; Feb. 9; Sp. p. 2000; Gaz. vol. 139; p. 349.
- Toilet article. H. Straus. No. 914,682; Mar. 9; Sp. p. 2168; Gaz. vol. 140; p. 364.
- Toilet article. G. M. Irwin. No. 918,053; Apr. 13; Sp. p. 2225; Gaz. vol. 141; p. 400.
- Toilet article. G. M. Irwin. No. 920,147; May 4; Sp. p. 110; Gaz. vol. 142; p. 17.
- Toilet article. J. Babst. No. 925,675; June 22; Sp. p. 5394; Gaz. vol. 143; p. 914.
- Toilet-case. E. Erickson. No. 911,300; Feb. 2; Sp. p. 550; Gaz. vol. 139; p. 94.
- Toilet-case. E. B. Pike. No. 928,694; July 20; Sp. p. 4143; Gaz. vol. 144; p. 722.
- Toilet-chair. W. F. Hedstrom. No. 927,531; July 13; Sp. p. 1703; Gaz. vol. 144; p. 304.
- Toilet-closet. R. A. Brooks. No. 936,516; Oct. 12; Sp. p. 1941; Gaz. vol. 147; p. 321.
- Toilet-composition. J. C. Sherman. No. 933,395; Sept. 7; Sp. p. 816; Gaz. vol. 146; p. 126.
- Toilet-cover. E. Goddard. No. 909,885; Jan. 19; Sp. p. 2928; Gaz. vol. 138; p. 545.
- Toilet-seat, Infant's. M. Stein. No. 932,592; Aug. 31; Sp. p. 6271; Gaz. vol. 145; p. 1085.
- Toilet set, Pocket. A. S. Yorks. No. 909,273; Jan. 12; Sp. p. 1718; Gaz. vol. 138; p. 309.
- Toll-box. J. M. Baker. No. 912,776; Feb. 16; Sp. p. 3675; Gaz. vol. 139; p. 646.
- Tomato-knife. F. L. Smiley. No. 908,894; Jan. 5; Sp. p. 955; Gaz. vol. 138; p. 152.
- Tomatoes, Treating. O. Schreen. No. 942,287; Dec. 7; Sp. p. 558; Gaz. vol. 149; p. 88.
- Tongs. E. J. Walker. No. 928,090; July 13; Sp. p. 2866; Gaz. vol. 144; p. 489.
- Tongs. A. G. Carlson. No. 928,849; July 20; Sp. p. 4434; Gaz. vol. 144; p. 773.
- Tongs. A. G. Kjellerstedt. No. 931,317; Aug. 17; Sp. p. 3598; Gaz. vol. 145; p. 620.
- Tongs. A. Bing. No. 936,980; Oct. 12; Sp. p. 2857; Gaz. vol. 147; p. 477.
- Tongs. J. L. Munsill. No. 938,409; Nov. 2; Sp. p. 114; Gaz. vol. 148; p. 18.
- Tongs, Blacksmith's. W. L. Davis. No. 943,818; Dec. 21; Sp. p. 3841; Gaz. vol. 149; p. 668.
- Tongs, Clinker-. W. W. Church. No. 913,619; Feb. 23; Sp. p. 5376; Gaz. vol. 139; p. 950.
- Tongs, Lifting-. J. Parrett. No. 937,028; Oct. 12; Sp. p. 2964; Gaz. vol. 147; p. 493.
- Tongs, Pipe-. E. M. Hedlund. No. 936,319; Oct. 12; Sp. p. 1481; Gaz. vol. 147; p. 256.
- Tongs, Pipe and casing. T. Mills. No. 934,332; Sept. 14; Sp. p. 2754; Gaz. vol. 146; p. 451.
- Tongs, Shelf-. E. S. Savage. No. 923,376; June 1; Sp. p. 603; Gaz. vol. 143; p. 88.
- Tongs, Shelf-. A. Rydquist. No. 944,214; Dec. 21; Sp. p. 4664; Gaz. vol. 149; p. 800.
- Tongue-depressor. E. Hubbell. No. 914,415; Mar. 9; Sp. p. 1621; Gaz. vol. 140; p. 276.
- Tongue-depressor. C. B. Benson. No. 922,078; May 18; Sp. p. 4087; Gaz. vol. 142; p. 715.
- Tongue, Draft-. T. Pojar. No. 939,547; Nov. 9; Sp. p. 2428; Gaz. vol. 148; p. 403.
- Tongue for farm implements. A. W. Mader. No. 910,076; Jan. 19; Sp. p. 3313; Gaz. vol. 138; p. 610.
- Tongue for quarry-trucks, Detachable draft-. L. W. Statler. No. 944,387; Dec. 28; Sp. p. 5045; Gaz. vol. 149; p. 888.
- Tongue-hound. P. A. Gehring. No. 918,035; Apr. 13; Sp. p. 2193; Gaz. vol. 141; p. 393.
- Tongue-hound. P. A. Gehring. No. 934,518; Sept. 21; Sp. p. 3114; Gaz. vol. 146; p. 543.
- Tongue-shaping machine. C. W. Borg. No. 909,530; Jan. 12; Sp. p. 2216; Gaz. vol. 138; p. 394.
- Tongue-support. W. C. D. Evans. No. 940,960; Nov. 23; Sp. p. 5557; Gaz. vol. 148; p. 941.
- Tongue-switch. E. T. Alburger, Jr. No. 927,920; July 13; Sp. p. 2549; Gaz. vol. 144; p. 434.
- Tongue-switch. C. E. Fink. No. 932,010; Aug. 24; Sp. p. 5079; Gaz. vol. 145; p. 868.
- Tongue-switch. J. B. Strong and J. D. McPherson. No. 942,295; Dec. 7; Sp. p. 569; Gaz. vol. 149; p. 96.
- Tongue-truck. A. C. Dann and R. L. Ford. No. 919,325; Apr. 27; Sp. p. 5078; Gaz. vol. 141; p. 881.
- Tongue, Vehicle-. M. R. Lunn. No. 934,080; Sept. 14; Sp. p. 2271; Gaz. vol. 146; p. 372.
- Tongue, Wagon-. F. A. and N. C. Long. No. 924,480; June 8; Sp. p. 2971; Gaz. vol. 143; p. 487.
- Tongue, Wagon-. E. Gunderson. No. 936,125; Oct. 5; Sp. p. 1108; Gaz. vol. 147; p. 168.
- Tonnage-equating machine. J. M. Daly. No. 939,222; Nov. 9; Sp. p. 1671; Gaz. vol. 148; p. 293.
- Tool. M. H. Stevens. No. 912,752; Feb. 16; Sp. p. 3630; Gaz. vol. 139; p. 639.
- Tool. I. E. Stump. No. 918,483; Apr. 13; Sp. p. 3079; Gaz. vol. 141; p. 541.
- Tool. H. G. Kahl and A. Keppler. No. 926,496; June 29; Sp. p. 7089; Gaz. vol. 143; p. 1251.
- Tool. E. Bartels. No. 937,754; Oct. 26; Sp. p. 4490; Gaz. vol. 147; p. 779.
- Tool. J. Spaar. No. 938,083; Oct. 26; Sp. p. 5199; Gaz. vol. 147; p. 890.
- Tool. C. F. Riesenweber. No. 938,339; Oct. 26; Sp. p. 5746; Gaz. vol. 147; p. 978.
- Tool. F. H. Gruer. No. 939,496; Nov. 9; Sp. p. 2325; Gaz. vol. 148; p. 386.
- Tool. D. C. Southworth. No. 942,293; Dec. 7; Sp. p. 567; Gaz. vol. 149; p. 90.
- Tool. G. A. Barnes. No. 944,306; Dec. 28; Sp. p. 4877; Gaz. vol. 149; p. 859.
- Tool, Adjustable boring-. G. C. Barnes. No. 914,328; Mar. 2; Sp. p. 1431; Gaz. vol. 140; p. 221.
- Tool and apparatus for dressing, turning, and shaping stone, emery-wheels, and the like. F. Trier. No. 908,908; Jan. 5; Sp. p. 983; Gaz. vol. 138; p. 157.
- Tool, Board-setting. W. R. Harris. No. 911,404; Feb. 2; Sp. p. 741; Gaz. vol. 139; p. 128.
- Tool, Button-cutting. N. Barry, Jr. No. 916,407; Mar. 30; Sp. p. 5579; Gaz. vol. 140; p. 1011.
- Tool, Centering-. S. Saner. No. 918,378; Apr. 13; Sp. p. 2873; Gaz. vol. 141; p. 508.
- Tool-centering device. C. E. Kennedy. No. 932,476; Aug. 31; Sp. p. 6025; Gaz. vol. 145; p. 1045.
- Tool, Centering or marking. O. L. Albertson. No. 912,052; Feb. 9; Sp. p. 2120; Gaz. vol. 139; p. 366.
- Tool, Combination-. B. F. Bird. No. 913,191; Feb. 23; Sp. p. 4475; Gaz. vol. 139; p. 806.
- Tool, Combination-. E. H. Nylin. No. 914,601; Mar. 9; Sp. p. 1988; Gaz. vol. 140; p. 339.
- Tool, Combination-. H. E. Shaul. No. 916,620; Mar. 30; Sp. p. 6034; Gaz. vol. 140; p. 1081.
- Tool, Combination-. A. B. Schofield. No. 920,087; Apr. 27; Sp. p. 6696; Gaz. vol. 141; p. 1137.
- Tool, Combination-. W. F. Howard. No. 920,746; May 4; Sp. p. 1322; Gaz. vol. 142; p. 214.
- Tool, Combination-. P. E. Shortt. No. 921,171; May 11; Sp. p. 2191; Gaz. vol. 142; p. 386.
- Tool, Combination-. J. F. O'Malley. No. 922,322; May 18; Sp. p. 4565; Gaz. vol. 142; p. 793.
- Tool, Combination-. A. J. Hathcox. No. 926,410; June 29; Sp. p. 6938; Gaz. vol. 143; p. 1222.
- Tool, Combination-. C. E. Bonner. No. 929,821; Aug. 3; Sp. p. 412; Gaz. vol. 145; p. 68.
- Tool, Combination-. R. J. Kennedy. No. 930,385; Aug. 10; Sp. p. 1542; Gaz. vol. 145; p. 279.
- Tool, Combination-. J. E. Nordlie. No. 930,411; Aug. 10; Sp. p. 1588; Gaz. vol. 145; p. 288.
- Tool, Combination-. R. C. Kleffman. No. 930,973; Aug. 10; Sp. p. 2796; Gaz. vol. 145; p. 474.
- Tool, Combination-. R. C. Johnson. No. 932,710; Aug. 31; Sp. p. 6527; Gaz. vol. 145; p. 1124.
- Tool, Combination-. G. H. Waters. No. 933,278; Sept. 7; Sp. p. 569; Gaz. vol. 146; p. 87.
- Tool, Combination-. F. J. Stolle. No. 933,860; Sept. 14; Sp. p. 1836; Gaz. vol. 146; p. 303.
- Tool, Combination-. W. H. Carr. No. 935,459; Sept. 28; Sp. p. 4987; Gaz. vol. 146; p. 881.
- Tool, Combination-. W. J. Tweedale. No. 936,194; Oct. 5; Sp. p. 1240; Gaz. vol. 147; p. 188.
- Tool, Combination-. T. B. Huestis. No. 938,583; Nov. 2; Sp. p. 330; Gaz. vol. 148; p. 48.
- Tool, Combination-. J. Norquist. No. 944,812; Dec. 28; Sp. p. 6003; Gaz. vol. 149; p. 1033.
- Tool, Compound. J. N. Ramstad. No. 910,019; Jan. 19; Sp. p. 3199; Gaz. vol. 138; p. 591.

*Alphabetical list of inventions—Continued.*

- Tool, Compound. R. P. Hansen. No. 918,672; Apr. 20; Sp. p. 3553; Gaz. vol. 141; p. 633.  
 Tool, Compound. G. T. Hastings. No. 933,442; Sept. 7; Sp. p. 899; Gaz. vol. 146; p. 140.  
 Tool, Counterboring-. E. E. Veley. No. 911,787; Feb. 9; Sp. p. 1494; Gaz. vol. 139; p. 279.  
 Tool coupling, Pneumatic-. A. Hebert. No. 909,790; Jan. 12; Sp. p. 2735; Gaz. vol. 138; p. 482.  
 Tool coupling, Pneumatic-. A. Hebert. No. 933,561; Sept. 7; Sp. p. 1230; Gaz. vol. 146; p. 181.  
 Tool, Cutting-. C. T. Ridgely. No. 908,499; Jan. 5; Sp. p. 135; Gaz. vol. 138; p. 24.  
 Tool, Detachable-jaw. C. L. Mueller. No. 929,868; Aug. 3; Sp. p. 519; Gaz. vol. 145; p. 83.  
 Tool-driver, Spiral. J. I. Baron. No. 924,878; June 15; Sp. p. 3833; Gaz. vol. 143; p. 654.  
 Tool, Electrically-heated. M. J. Wohl and A. A. Low. No. 912,765; Feb. 16; Sp. p. 3645; Gaz. vol. 139; p. 643.  
 Tool, Electrically-heated. H. Hertzberg and M. J. Wohl. No. 918,748; Apr. 20; Sp. p. 3719; Gaz. vol. 141; p. 660.  
 Tool, Electrically-heated. G. E. Stevens. No. 943,483; Dec. 14; Sp. p. 3110; Gaz. vol. 149; p. 524.  
 Tool, Electropneumatic. W. Z. Ward. No. 923,913; June 8; Sp. p. 1811; Gaz. vol. 143; p. 302.  
 Tool, Engraving-. H. W. Wells. No. 914,621; Mar. 9; Sp. p. 2030; Gaz. vol. 140; p. 346.  
 Tool, Finishing-. J. J. Barth. No. 936,695; Oct. 12; Sp. p. 2310; Gaz. vol. 147; p. 383.  
 Tool, Fluid-operated. C. B. Richards. No. 929,111; July 27; Sp. p. 4984; Gaz. vol. 144; p. 887.  
 Tool, Fluid-pressure. F. Polzer. No. 914,602; Mar. 9; Sp. p. 1989; Gaz. vol. 140; p. 339.  
 Tool for breaking bands, wire, and the like. J. M. Heckman. No. 927,653; July 13; Sp. p. 1980; Gaz. vol. 144; p. 346.  
 Tool for removing eyes from vegetables. J. D. Houck. No. 911,010; Jan. 26; Sp. p. 5240; Gaz. vol. 138; p. 944.  
 Tool for securing the covers in paint-tins, &c. G. W. Taylor and J. P. Muller. No. 909,254; Jan. 12; Sp. p. 1681; Gaz. vol. 138; p. 303.  
 Tool, Glass-severing. L. J. Pierce. No. 909,451; Jan. 12; Sp. p. 2058; Gaz. vol. 138; p. 366.  
 Tool, Hand-. A. G. Lamb. No. 922,602; May 25; Sp. p. 5161; Gaz. vol. 142; p. 914.  
 Tool, Hand-controlled. C. B. Simmons. No. 916,497; Mar. 30; Sp. p. 5784; Gaz. vol. 140; p. 1041.  
 Tool-handle. G. E. Wood. No. 913,339; Feb. 23; Sp. p. 4777; Gaz. vol. 139; p. 855.  
 Tool-handle. W. H. Hornberger. No. 915,675; Mar. 16; Sp. p. 4183; Gaz. vol. 140; p. 721.  
 Tool-handle. C. B. Stanley. No. 928,227; July 13; Sp. p. 3148; Gaz. vol. 144; p. 536.  
 Tool-handle. E. Zinn. No. 941,901; Nov. 30; Sp. p. 7595; Gaz. vol. 148; p. 1278.  
 Tool-handle. E. Kener, Jr. No. 942,077; Dec. 7; Sp. p. 76; Gaz. vol. 149; p. 14.  
 Tool-handle, Detachable extension. F. M. Jacobs. No. 921,840; May 18; Sp. p. 3614; Gaz. vol. 142; p. 637.  
 Tool handle-lock, Pneumatic-. G. L. Brown. No. 915,735; Mar. 23; Sp. p. 4315; Gaz. vol. 140; p. 767.  
 Tool handle, Pneumatic-. W. O. Duntley. No. 912,655; Feb. 16; Sp. p. 3362; Gaz. vol. 139; p. 604.  
 Tool-head, Rotary. A. E. Church. No. 928,180; July 13; Sp. p. 3046; Gaz. vol. 144; p. 520.  
 Tool-holder. W. M. Rhoades. No. 908,804; Jan. 5; Sp. p. 775; Gaz. vol. 138; p. 122.  
 Tool-holder. C. E. Brown. No. 911,537; Feb. 2; Sp. p. 977; Gaz. vol. 139; p. 170.  
 Tool-holder. G. F. Krieger. No. 911,999; Feb. 9; Sp. p. 1998; Gaz. vol. 139; p. 349.  
 Tool-holder. C. E. Bown. No. 913,804; Mar. 2; Sp. p. 265; Gaz. vol. 140; p. 45.  
 Tool-holder. G. T. Reiss. No. 920,998; May 11; Sp. p. 1842; Gaz. vol. 142; p. 326.  
 Tool-holder. C. L. Goodrich. No. 921,977; May 18; Sp. p. 3888; Gaz. vol. 142; p. 680.  
 Tool-holder. J. D. Thompson. No. 922,210; May 18; Sp. p. 4357; Gaz. vol. 142; p. 758.  
 Tool-holder. G. R. Lang. No. 926,882; July 6; Sp. p. 368; Gaz. vol. 144; p. 59.  
 Tool-holder. I. Larson. No. 927,362; July 6; Sp. p. 1319; Gaz. vol. 144; p. 219.  
 Tool-holder. C. Karpa. No. 928,057; July 13; Sp. p. 2819; Gaz. vol. 144; p. 480.  
 Tool-holder. J. H. Jones. No. 932,286; Aug. 24; Sp. p. 5638; Gaz. vol. 145; p. 961.  
 Tool-holder. H. W. Haskell. No. 935,977; Oct. 5; Sp. p. 806; Gaz. vol. 147; p. 119.  
 Tool-holder. L. T. Harkness. No. 937,241; Oct. 19; Sp. p. 3422; Gaz. vol. 147; p. 592.  
 Tool-holder. S. Lowe. No. 938,600; Nov. 2; Sp. p. 364; Gaz. vol. 148; p. 54.  
 Tool-holder. W. A. Peck. No. 939,079; Nov. 2; Sp. p. 1339; Gaz. vol. 148; p. 218.  
 Tool-holder. H. C. Norrick. No. 940,185; Nov. 16; Sp. p. 3855; Gaz. vol. 148; p. 655.  
 Tool-holder. W. J. Powell. No. 941,272; Nov. 23; Sp. p. 6244; Gaz. vol. 148; p. 1045.  
 Tool-holder. C. Grunder. No. 942,034; Nov. 30; Sp. p. 7837; Gaz. vol. 148; p. 1321.  
 Tool-holder. A. F. Liden. No. 943,087; Dec. 14; Sp. p. 2296; Gaz. vol. 149; p. 389.  
 Tool-holder. C. B. Wells. No. 943,499; Dec. 14; Sp. p. 3142; Gaz. vol. 149; p. 530.  
 Tool-holder and means for setting the tools therein. M. Morton. No. 940,938; Nov. 23; Sp. p. 5519; Gaz. vol. 148; p. 934.  
 Tool-holder, Friction. B. F. Vickery. No. 925,854; June 22; Sp. p. 5805; Gaz. vol. 143; p. 1005.  
 Tool holder, Machine-. H. O. Evans. No. 938,995; Nov. 2; Sp. p. 1182; Gaz. vol. 148; p. 188.  
 Tool holder or chuck. A. McGregor. No. 929,466; July 27; Sp. p. 5722; Gaz. vol. 144; p. 1004.  
 Tool holder-securing device. G. H. Hollm. No. 922,429; May 18; Sp. p. 4789; Gaz. vol. 142; p. 829.  
 Tool-holding appliance. E. J. Belknap. No. 921,579; May 11; Sp. p. 3034; Gaz. vol. 142; p. 521.  
 Tool-holding device. G. B. Ford. No. 935,361; Sept. 28; Sp. p. 4806; Gaz. vol. 146; p. 850.  
 Tool, Impact-. C. B. Richards. No. 910,860; Jan. 26; Sp. p. 4956; Gaz. vol. 138; p. 895.  
 Tool, Individual trenching or prospector's. E. T. Conley. No. 919,132; Apr. 20; Sp. p. 4490; Gaz. vol. 141; p. 784.  
 Tool, Jeweler's. C. W. Pillars. No. 910,953; Jan. 26; Sp. p. 5140; Gaz. vol. 138; p. 926.  
 Tool, Knife-sharpening. A. F. Moneuse. No. 917,472; Apr. 6; Sp. p. 1015; Gaz. vol. 141; p. 177.  
 Tool lubricator, Pneumatic-. J. C. Beckfeld. No. 909,740; Jan. 12; Sp. p. 2640; Gaz. vol. 138; p. 466.  
 Tool, Machine-. W. L. Haynes. No. 915,856; Mar. 23; Sp. p. 4534; Gaz. vol. 140; p. 806.  
 Tool, Machine-. B. Franz. No. 917,577; Apr. 6; Sp. p. 1198; Gaz. vol. 141; p. 210.  
 Tool, Machine-. G. Kuwada. No. 934,079; Sept. 14; Sp. p. 2268; Gaz. vol. 146; p. 372.  
 Tool, Mechanic's. J. O. Anderson. No. 923,313; June 1; Sp. p. 474; Gaz. vol. 143; p. 67.  
 Tool, Molder's. J. H. Casson. No. 909,150; Jan. 12; Sp. p. 1491; Gaz. vol. 138; p. 271.  
 Tool, Mortising-. F. C. Lehmann. No. 910,929; Jan. 26; Sp. p. 5091; Gaz. vol. 138; p. 918.  
 Tool, Mortising-. J. Anderson. No. 912,623; Feb. 16; Sp. p. 3103; Gaz. vol. 139; p. 558.  
 Tool, Motive-fluid-operated. D. S. Waugh. No. 915,813; Mar. 23; Sp. p. 4452; Gaz. vol. 140; p. 791.  
 Tool, Motor-. C. C. Allen. No. 911,562; Feb. 9; Sp. p. 1037; Gaz. vol. 139; p. 205.  
 Tool, Motor-actuated hand-. W. C. Whitcomb. No. 908,920; Jan. 5; Sp. p. 1005; Gaz. vol. 138; p. 161.  
 Tool, Motor-actuated hand-. W. C. Whitcomb. No. 908,921; Jan. 5; Sp. p. 1007; Gaz. vol. 138; p. 161.  
 Tool, Multiple. F. R. Cunningham. No. 910,789; Jan. 26; Sp. p. 4830; Gaz. vol. 138; p. 873.  
 Tool, Percussively-operated hand-. G. E. Wood. No. 913,340; Feb. 23; Sp. p. 4778; Gaz. vol. 139; p. 856.  
 Tool, Pneumatic. W. Wheeler. (Reissue). No. 12,945; Apr. 20; Sp. p. 5021; Gaz. vol. 141; p. 844.  
 Tool, Pneumatic. A. Schum. No. 934,096; Sept. 14; Sp. p. 2298; Gaz. vol. 146; p. 377.  
 Tool, Pneumatic. H. H. Van Sickle. No. 934,640; Sept. 21; Sp. p. 3363; Gaz. vol. 146; p. 585.  
 Tool, Pneumatic. H. Leinweber. No. 938,774; Nov. 2; Sp. p. 698; Gaz. vol. 148; p. 111.  
 Tool, Pneumatic. C. Christiansen. No. 939,803; Nov. 9; Sp. p. 2992; Gaz. vol. 148; p. 492.  
 Tool, Pneumatic. R. H. Wallace. No. 941,748; Nov. 30; Sp. p. 7258; Gaz. vol. 148; p. 1224.  
 Tool, Portable electrical. F. J. Backscheider. No. 908,726; Jan. 5; Sp. p. 633; Gaz. vol. 138; p. 99.  
 Tool, Pressure-driven reciprocating. A. Palmros. No. 937,009; Oct. 12; Sp. p. 2917; Gaz. vol. 147; p. 486.  
 Tool-rack. M. H. Brede. No. 944,312; Dec. 28; Sp. p. 4888; Gaz. vol. 149; p. 861.  
 Tool, Refilling-. J. E. Graybill. No. 928,044; July 13; Sp. p. 2793; Gaz. vol. 144; p. 476.  
 Tool, Rock-drilling. H. G. Williams. No. 912,925; Feb. 16; Sp. p. 3929; Gaz. vol. 139; p. 691.  
 Tool, Screw-thread-cutting. F. E. Ross. No. 915,383; Mar. 16; Sp. p. 3566; Gaz. vol. 140; p. 621.  
 Tool sectional tubular handle. W. H. Cooley and H. E. Marks. No. 914,552; Mar. 9; Sp. p. 1893; Gaz. vol. 140; p. 322.  
 Tool-shank. C. F. Sullivan. No. 927,821; July 13; Sp. p. 2328; Gaz. vol. 144; p. 401.  
 Tool-sharpener. E. F. Kirksey and J. T. Stegall. No. 916,328; Mar. 23; Sp. p. 5402; Gaz. vol. 140; p. 959.  
 Tool, Smoothing-. C. R. Uebelmesser. No. 913,327; Feb. 23; Sp. p. 4758; Gaz. vol. 139; p. 852.  
 Tool, Staking-. A. S. Koch. No. 926,123; June 29; Sp. p. 6351; Gaz. vol. 143; p. 1128.  
 Tool, Stay-wire-applying. J. F. Shelton. No. 917,168; Apr. 6; Sp. p. 422; Gaz. vol. 141; p. 74.  
 Tool-support for tools or tool-holders. G. C. Barnes. No. 941,845; Nov. 30; Sp. p. 7487; Gaz. vol. 148; p. 1258.  
 Tool, Tire-. W. James. No. 913,897; Mar. 2; Sp. p. 490; Gaz. vol. 140; p. 79.  
 Tool tubular handle. W. H. Cooley and H. E. Marks. No. 914,554; Mar. 9; Sp. p. 1896; Gaz. vol. 140; p. 323.  
 Tool, Valveless pneumatic. F. S. Graham. No. 922,135; May 18; Sp. p. 4192; Gaz. vol. 142; p. 733.  
 Tool, Valveless pneumatic. J. F. Clement. No. 928,181; July 13; Sp. p. 3047; Gaz. vol. 144; p. 520.  
 Tool, Wire-fence. S. Guth. No. 918,670; Apr. 20; Sp. p. 3552; Gaz. vol. 141; p. 633.  
 Tools, Feed for pneumatic. M. Hardsocg. No. 942,066; Dec. 7; Sp. p. 51; Gaz. vol. 149; p. 11.  
 Tools, Fence-making attachment for combination-. T. Poese. No. 916,780; Mar. 30; Sp. p. 6304; Gaz. vol. 140; p. 1128.



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- Tools, Making hand-. G. E. Wood. No. 924,210; June 8; Sp. p. 2457; Gaz. vol. 143; p. 398.  
 Tools, Manufacturing. G. E. Wood. No. 932,223; Aug. 24; Sp. p. 5518; Gaz. vol. 145; p. 939.  
 Tools, Protecting arrangement for rotary. F. G. C. Lundberg. No. 941,427; Nov. 30; Sp. p. 6597; Gaz. vol. 148; p. 1118.  
 Tooth and blade cutter, High-speed. J. Lehmann. No. 910,137; Jan. 19; Sp. p. 3430; Gaz. vol. 138; p. 628.  
 Tooth, Artificial. S. S. Bloom. No. 908,643; Jan. 5; Sp. p. 448; Gaz. vol. 138; p. 72.  
 Tooth, Artificial. G. Sibley. No. 910,370; Jan. 26; Sp. p. 4984; Gaz. vol. 138; p. 899.  
 Tooth, Artificial. F. Sheinman. No. 911,078; Feb. 2; Sp. p. 110; Gaz. vol. 139; p. 20.  
 Tooth, Artificial. J. W. Ivory. No. 911,398; Feb. 2; Sp. p. 731; Gaz. vol. 139; p. 126.  
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 Tooth, Artificial. T. McCullough. No. 917,886; Apr. 13; Sp. p. 1863; Gaz. vol. 141; p. 340.  
 Tooth, Artificial. F. W. MacDonald. No. 920,768; May 4; Sp. p. 1355; Gaz. vol. 142; p. 220.  
 Tooth, Artificial. F. Rose. No. 936,361; Oct. 12; Sp. p. 1574; Gaz. vol. 147; p. 269.  
 Tooth, Artificial. J. W. Ivory. No. 936,903; Oct. 12; Sp. p. 2712; Gaz. vol. 147; p. 452.  
 Tooth, Artificial. J. W. Ivory. No. 943,354; Dec. 14; Sp. p. 2848; Gaz. vol. 149; p. 479.  
 Tooth, Artificial. J. A. Williams. No. 944,836; Dec. 28; Sp. p. 6051; Gaz. vol. 149; p. 1042.  
 Tooth-bender. J. D. Ge Bott. No. 919,153; Apr. 20; Sp. p. 4525; Gaz. vol. 141; p. 791.  
 Tooth-brush case. P. A. Rohr. No. 918,372; Apr. 13; Sp. p. 2854; Gaz. vol. 141; p. 505.  
 Tooth-cleaning device. E. C. Chambers. No. 918,281; Apr. 13; Sp. p. 2690; Gaz. vol. 141; p. 476.  
 Tooth-crown. J. L. Benson. No. 921,791; May 18; Sp. p. 3492; Gaz. vol. 142; p. 621.  
 Tooth-crown matrices, Forming. F. O. Jacques, Jr. No. 934,536; Sept. 21; Sp. p. 3146; Gaz. vol. 146; p. 549.  
 Tooth-crowns, &c., Molding. S. Shimura and Y. Minagawa. No. 909,696; Jan. 12; Sp. p. 2544; Gaz. vol. 138; p. 451.  
 Tooth, Dipper-. V. C. Thomas. No. 915,809; Mar. 23; Sp. p. 4445; Gaz. vol. 140; p. 790.  
 Tooth, Excavating-. G. Conibear. No. 916,271; Mar. 23; Sp. p. 5305; Gaz. vol. 140; p. 939.  
 Tooth-regulating device. C. S. Case. No. 934,958; Sept. 21; Sp. p. 3986; Gaz. vol. 146; p. 692.  
 Tooth-regulating device. J. Aderer. No. 941,840; Nov. 30; Sp. p. 7477; Gaz. vol. 148; p. 1257.  
 Tooth, Stacker-. J. Dain. No. 913,702; Mar. 2; Sp. p. 50; Gaz. vol. 140; p. 11.  
 Toothpick. A. C. Perkins. No. 911,068; Feb. 2; Sp. p. 89; Gaz. vol. 139; p. 16.  
 Toothpick-boxing machine. C. C. Freeman. No. 911,227; Feb. 2; Sp. p. 405; Gaz. vol. 139; p. 70.  
 Toothpick-machine cutter. H. A. Dorr. No. 931,044; Aug. 17; Sp. p. 2987; Gaz. vol. 145; p. 527.  
 Top. B. Ziepel. No. 924,718; June 15; Sp. p. 3491; Gaz. vol. 143; p. 601.  
 Top. S. Gropper and G. P. Schmidt. No. 928,257; July 20; Sp. p. 3251; Gaz. vol. 144; p. 577.  
 Top. T. N. Reed. No. 931,487; Aug. 17; Sp. p. 3931; Gaz. vol. 145; p. 678.  
 Top, Double. E. Vuillaume. No. 926,083; June 22; Sp. p. 6270; Gaz. vol. 143; p. 1080.  
 Top, Gyroscopic. M. L. Hawks. No. 918,545; Apr. 20; Sp. p. 3234; Gaz. vol. 141; p. 590.  
 Top, Gyroscopic. M. L. Hawks. No. 919,349; Apr. 27; Sp. p. 5125; Gaz. vol. 141; p. 889.  
 Top, Gyroscopic. M. L. Hawks. No. 930,669; Aug. 3; Sp. p. 51; Gaz. vol. 145; p. 11.  
 Top-lift-flattening machine. A. J. Bolton. No. 937,983; Oct. 26; Sp. p. 4969; Gaz. vol. 147; p. 856.  
 Top mechanical demonstrator, Color-changing-. C. V. Cunningham. No. 917,260; Apr. 6; Sp. p. 621; Gaz. vol. 141; p. 106.  
 Top-roll mechanism. L. T. Houghton. No. 908,464; Jan. 5; Sp. p. 58; Gaz. vol. 138; p. 12.  
 Top, Self-spinning. O. E. Frear. No. 933,544; Sept. 7; Sp. p. 1200; Gaz. vol. 146; p. 175.  
 Torch. C. W. Akers. No. 922,232; May 18; Sp. p. 4407; Gaz. vol. 142; p. 764.  
 Torch, Alcohol-. A. W. Straight. No. 911,086; Feb. 2; Sp. p. 121; Gaz. vol. 139; p. 23.  
 Torch and soldering-iron, Blow-. F. J. Mann. No. 937,622; Oct. 19; Sp. p. 4221; Gaz. vol. 147; p. 719.  
 Torch burner, Blow-. E. Beyer. No. 913,611; Feb. 23; Sp. p. 5352; Gaz. vol. 139; p. 947.  
 Torch, Camper's. J. F. Menge. No. 918,070; Apr. 13; Sp. p. 2261; Gaz. vol. 141; p. 406.  
 Torch, Gasolene-. K. Dougan. No. 915,836; Mar. 23; Sp. p. 4501; Gaz. vol. 140; p. 799.  
 Torch, Vapor-. W. Chausse. No. 918,006; Apr. 13; Sp. p. 2131; Gaz. vol. 141; p. 383.  
 Torches, Air-pump for blow-. O. Bernz. No. 937,757; Oct. 26; Sp. p. 4494; Gaz. vol. 147; p. 780.  
 Torpedo. E. O'Toole. No. 909,321; Jan. 12; Sp. p. 1817; Gaz. vol. 138; p. 325.  
 Torpedo. E. P. S. Andrews. No. 925,857; June 22; Sp. p. 5812; Gaz. vol. 143; p. 1006.  
 Torpedo. M. Larsen. No. 940,033; Nov. 16; Sp. p. 3478; Gaz. vol. 148; p. 601.  
 Torpedo. J. Tasto. No. 941,111; Nov. 23; Sp. p. 5880; Gaz. vol. 148; p. 991.  
 Torpedo, Automobile. H. Maxim. No. 937,217; Oct. 19; Sp. p. 3363; Gaz. vol. 147; p. 584.  
 Torpedo-controlling means, Dirigible-. L. E. Custer. No. 913,814; Mar. 2; Sp. p. 284; Gaz. vol. 140; p. 49.  
 Torpedo-firing means. C. Davis. No. 914,371; Mar. 2; Sp. p. 1535; Gaz. vol. 140; p. 237.  
 Torpedo, Gas-propelled. I. N. Lewis. No. 933,086; Sept. 7; Sp. p. 99; Gaz. vol. 146; p. 17.  
 Torpedo-launching device. S. Lake. No. 925,707; June 22; Sp. p. 5463; Gaz. vol. 143; p. 955.  
 Torpedo, Railway-. F. Dutcher. No. 938,465; Nov. 2; Sp. p. 26; Gaz. vol. 148; p. 6.  
 Torpedo, Self-propelled. A. E. Jones. No. 910,823; Jan. 26; Sp. p. 4902; Gaz. vol. 138; p. 884.  
 Torpedo, Self-propelled. A. E. Jones. No. 917,449; Apr. 6; Sp. p. 976; Gaz. vol. 141; p. 170.  
 Torpedo-steering mechanism. F. M. Leavitt. No. 925,710; June 22; Sp. p. 5477; Gaz. vol. 143; p. 956.  
 Torpedo-tube. C. Laurenti. No. 934,192; Sept. 14; Sp. p. 2496; Gaz. vol. 146; p. 411.  
 Torpedoes, Air-heater for automobile. F. M. Leavitt. No. 943,833; Dec. 21; Sp. p. 3872; Gaz. vol. 149; p. 673.  
 Torpedoes, Starting device for the compressed-air motors of self-propelled. A. E. Jones. No. 929,954; Aug. 3; Sp. p. 706; Gaz. vol. 145; p. 112.  
 Torpedoes, Turbine installation for. S. Z. de Ferranti. No. 925,889; June 22; Sp. p. 5883; Gaz. vol. 143; p. 1016.  
 Torpedoes under water, Apparatus for launching. A. E. Jones. No. 916,164; Mar. 23; Sp. p. 5113; Gaz. vol. 140; p. 905.  
 Torque-opposing device. G. M. Eaton. No. 937,290; Oct. 19; Sp. p. 3520; Gaz. vol. 147; p. 608.  
 Torque-opposing device. C. A. Psilander. No. 937,329; Oct. 19; Sp. p. 3593; Gaz. vol. 147; p. 621.  
 Tourist's and traveler's cap. H. C. Harrison and W. M. O'Brien. No. 911,126; Feb. 2; Sp. p. 197; Gaz. vol. 139; p. 37.  
 Tow-boat and system of towage. J. S. Lane and J. L. Mathews. No. 922,160; May 18; Sp. p. 4239; Gaz. vol. 142; p. 741.  
 Towing device. C. W. Larson. No. 942,450; Dec. 7; Sp. p. 871; Gaz. vol. 149; p. 142.  
 Towing-post. W. F. Johnstone. No. 928,766; July 20; Sp. p. 4277; Gaz. vol. 144; p. 745.  
 Towel-rack. H. B. Rose. No. 909,679; Jan. 12; Sp. p. 2508; Gaz. vol. 138; p. 445.  
 Towel-rack. J. C. Burton. No. 916,417; Mar. 30; Sp. p. 5595; Gaz. vol. 140; p. 1014.  
 Towel-rack. B. S. Gruener. No. 925,473; June 22; Sp. p. 4987; Gaz. vol. 143; p. 880.  
 Tower. J. G. Kreer. No. 920,157; May 4; Sp. p. 127; Gaz. vol. 142; p. 19.  
 Tower or pole. F. Milliken. No. 923,557; June 1; Sp. p. 988; Gaz. vol. 143; p. 152.  
 Tower, Transmission-. D. R. Scholes. No. 933,493; Sept. 7; Sp. p. 1105; Gaz. vol. 146; p. 158.  
 Toy. J. H. Rese. No. 908,498; Jan. 5; Sp. p. 134; Gaz. vol. 138; p. 24.  
 Toy. J. C. Schweida and C. Stapf. No. 911,451; Feb. 2; Sp. p. 814; Gaz. vol. 139; p. 142.  
 Toy. A. C. Tylter. No. 911,462; Feb. 2; Sp. p. 833; Gaz. vol. 139; p. 146.  
 Toy. J. J. Mahan and J. F. Moran. No. 911,602; Feb. 9; Sp. p. 1131; Gaz. vol. 139; p. 218.  
 Toy. T. Harris. No. 912,844; Feb. 16; Sp. p. 3791; Gaz. vol. 139; p. 667.  
 Toy. P. S. Hay. No. 913,381; Feb. 23; Sp. p. 4861; Gaz. vol. 139; p. 870.  
 Toy. M. T. C. Wing. No. 916,243; Mar. 23; Sp. p. 5264; Gaz. vol. 140; p. 930.  
 Toy. S. Bober. No. 916,661; Mar. 30; Sp. p. 6101; Gaz. vol. 140; p. 1093.  
 Toy. W. Barclay. No. 916,970; Apr. 6; Sp. p. 18; Gaz. vol. 141; p. 6.  
 Toy. J. W. Elliott and H. C. Moss. No. 917,271; Apr. 6; Sp. p. 645; Gaz. vol. 141; p. 110.  
 Toy. I. Lawrence. No. 920,764; May 4; Sp. p. 1347; Gaz. vol. 142; p. 219.  
 Toy. R. E. Petet. No. 921,450; May 11; Sp. p. 2791; Gaz. vol. 142; p. 480.  
 Toy. G. W. King. No. 921,847; May 18; Sp. p. 3632; Gaz. vol. 142; p. 640.  
 Toy. R. Glaser and R. Myers. No. 922,416; May 18; Sp. p. 4759; Gaz. vol. 142; p. 825.  
 Toy. L. W. King. No. 922,775; May 25; Sp. p. 5514; Gaz. vol. 142; p. 970.  
 Toy. C. W. Beiser. No. 925,273; June 15; Sp. p. 4603; Gaz. vol. 143; p. 787.  
 Toy. C. W. Carey. No. 925,290; June 15; Sp. p. 4631; Gaz. vol. 143; p. 791.  
 Toy. J. Minor. No. 925,369; June 15; Sp. p. 4775; Gaz. vol. 143; p. 815.  
 Toy. H. T. Trimbur. No. 926,784; July 6; Sp. p. 151; Gaz. vol. 144; p. 25.  
 Toy. J. C. Turner. No. 928,228; July 13; Sp. p. 3149; Gaz. vol. 144; p. 537.  
 Toy. O. S. Meyer. No. 928,777; July 20; Sp. p. 4296; Gaz. vol. 144; p. 749.  
 Toy. F. E. Lyon. No. 929,455; July 27; Sp. p. 5700; Gaz. vol. 144; p. 1000.  
 Toy. J. C. Turner. No. 930,107; Aug. 3; Sp. p. 1025; Gaz. vol. 145; p. 165.  
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 Toy. S. H. Rogers. No. 931,221; Aug. 17; Sp. p. 3379; Gaz. vol. 145; p. 587.  
 Toy. A. Gregory. No. 932,982; Aug. 31; Sp. p. 7050; Gaz. vol. 145; p. 1212.  
 Toy. W. C. L. Ireland and A. W. Werkiser. No. 934,615; Sept. 21; Sp. p. 3315; Gaz. vol. 146; p. 577.  
 Toy. E. J. Seward. No. 935,865; Oct. 5; Sp. p. 571; Gaz. vol. 147; p. 82.  
 Toy. J. G. McConaghy. No. 937,323; Oct. 19; Sp. p. 3580; Gaz. vol. 147; p. 619.  
 Toy. R. R. Essig. No. 938,417; Oct. 26; Sp. p. 5928; Gaz. vol. 147; p. 1005.  
 Toy. H. R. Graham, Jr. No. 938,844; Nov. 2; Sp. p. 842; Gaz. vol. 148; p. 135.  
 Toy. A. Klink. No. 938,874; Nov. 2; Sp. p. 922; Gaz. vol. 148; p. 145.  
 Toy. G. Henery. No. 939,022; Nov. 2; Sp. p. 1234; Gaz. vol. 148; p. 197.  
 Toy. J. B. Bowman. No. 939,586; Nov. 9; Sp. p. 2522; Gaz. vol. 148; p. 416.  
 Toy. F. B. Whitchee. No. 940,223; Nov. 16; Sp. p. 3939; Gaz. vol. 148; p. 669.  
 Toy. A. H. Cotton. No. 941,311; Nov. 23; Sp. p. 6323; Gaz. vol. 148; p. 1057.  
 Toy. P. Phillips, C. Diplerno, and S. Mongell. No. 943,456; Dec. 14; Sp. p. 3060; Gaz. vol. 149; p. 514.  
 Toy. B. B., M. P., and A. S. Exline. No. 943,528; Dec. 14; Sp. p. 3207; Gaz. vol. 149; p. 540.  
 Toy. J. G. Stclair. No. 943,575; Dec. 14; Sp. p. 3294; Gaz. vol. 149; p. 555.  
 Toy. R. Kirkby. No. 944,096; Dec. 21; Sp. p. 4427; Gaz. vol. 149; p. 763.  
 Toy. J. S. Lester. No. 944,623; Dec. 28; Sp. p. 5595; Gaz. vol. 149; p. 971.  
 Toy. Aerial. J. W. Foster. No. 929,759; Aug. 3; Sp. p. 270; Gaz. vol. 145; p. 46.  
 Toy air-gun. S. T. Allen. No. 931,553; Aug. 17; Sp. p. 4046; Gaz. vol. 145; p. 697.  
 Toy and game trap-shooter. C. A. Evans. No. 941,864; Nov. 30; Sp. p. 7522; Gaz. vol. 148; p. 1265.  
 Toy, Automatic. C. W. Cheney. No. 936,602; Oct. 12; Sp. p. 2113; Gaz. vol. 147; p. 351.  
 Toy-bank lock. C. Hansen. No. 925,900; June 22; Sp. p. 5904; Gaz. vol. 143; p. 1020.  
 Toy, Basket-ball. E. S. Staples. No. 942,944; Dec. 14; Sp. p. 1959; Gaz. vol. 149; p. 340.  
 Toy block. L. Johnson. No. 927,545; July 13; Sp. p. 1728; Gaz. vol. 144; p. 308.  
 Toy cannon. C. L. Wood. No. 936,689; Oct. 12; Sp. p. 2297; Gaz. vol. 147; p. 381.  
 Toy cannon. W. H. Cornford. No. 938,982; Nov. 2; Sp. p. 1153; Gaz. vol. 148; p. 184.  
 Toy, Collapsible. A. Klein. No. 908,777; Jan. 5; Sp. p. 730; Gaz. vol. 138; p. 114.  
 Toy derrick. M. T. C. Wing. No. 942,229; Dec. 7; Sp. p. 432; Gaz. vol. 149; p. 66.  
 Toy, Detonating. J. A. Dainty. No. 927,775; July 13; Sp. p. 2224; Gaz. vol. 144; p. 385.  
 Toy dumping-cart. H. T. Kingsbury. No. 944,443; Dec. 28; Sp. p. 5171; Gaz. vol. 149; p. 907.  
 Toy, Explosive. M. Armstrong. No. 935,083; Sept. 28; Sp. p. 4231; Gaz. vol. 146; p. 760.  
 Toy, Figure. W. H. Fisher. No. 928,744; July 20; Sp. p. 4239; Gaz. vol. 144; p. 738.  
 Toy, Figure. B. A. Beal and T. G. Gray. No. 932,428; Aug. 31; Sp. p. 5911; Gaz. vol. 145; p. 1030.  
 Toy, Figure. C. H. Clark. No. 932,962; Aug. 31; Sp. p. 7015; Gaz. vol. 145; p. 1206.  
 Toy, Figure. G. T. Hall. No. 938,318; Oct. 26; Sp. p. 5698; Gaz. vol. 147; p. 970.  
 Toy flying-machine. E. H. Eichenfels. No. 911,538; Feb. 2; Sp. p. 978; Gaz. vol. 139; p. 171.  
 Toy flying-machine. J. Stomberg. No. 942,020; Nov. 30; Sp. p. 7814; Gaz. vol. 148; p. 1316.  
 Toy fountain. F. S. Kroenung. No. 917,459; Apr. 6; Sp. p. 992; Gaz. vol. 141; p. 173.  
 Toy gun. J. B. Griffith. No. 918,444; Apr. 13; Sp. p. 3002; Gaz. vol. 141; p. 528.  
 Toy, Illusion. F. L. Oleson. No. 927,748; July 13; Sp. p. 2167; Gaz. vol. 144; p. 376.  
 Toy, Locomotive. D. P. Clark. No. 919,540; Apr. 27; Sp. p. 5556; Gaz. vol. 141; p. 955.  
 Toy, Magnet. W. J. Kerr. No. 920,895; May 4; Sp. p. 1642; Gaz. vol. 142; p. 262.  
 Toy, Mechanical. W. H. Hobdoy. No. 916,151; Mar. 23; Sp. p. 5089; Gaz. vol. 140; p. 901.  
 Toy, Mechanical. C. W. Clark. No. 921,364; May 11; Sp. p. 2626; Gaz. vol. 142; p. 452.  
 Toy, Mechanical. W. I. Towne. No. 931,901; Aug. 24; Sp. p. 4816; Gaz. vol. 145; p. 831.  
 Toy, Mechanical. R. E. Cecil. No. 933,623; Sept. 7; Sp. p. 1352; Gaz. vol. 146; p. 201.  
 Toy, Mechanical. E. Eastman. No. 937,780; Oct. 26; Sp. p. 4557; Gaz. vol. 147; p. 789.  
 Toy, Mechanical. E. J. Pearce. No. 943,096; Dec. 14; Sp. p. 2313; Gaz. vol. 149; p. 392.  
 Toy motor, Electric. H. C. Grant. No. 931,417; Aug. 17; Sp. p. 3798; Gaz. vol. 145; p. 656.  
 Toy, Moving-picture. E. W. Davis. No. 931,184; Aug. 17; Sp. p. 3294; Gaz. vol. 145; p. 574.  
 Toy, Musical. O. Ekincke. No. 931,286; Aug. 17; Sp. p. 3533; Gaz. vol. 145; p. 610.  
 Toy musical instrument. S. R. Divine. No. 931,578; Aug. 17; Sp. p. 4096; Gaz. vol. 145; p. 705.  
 Toy operated by static electricity, Puzzle. E. A. Sullivan. No. 930,704; Aug. 10; Sp. p. 2223; Gaz. vol. 145; p. 387.  
 Toy, Optical. A. Deperdussin. No. 935,646; Oct. 5; Sp. p. 40; Gaz. vol. 147; p. 8.  
 Toy or ornament. E. A. Shaw. No. 909,467; Jan. 12; Sp. p. 2088; Gaz. vol. 138; p. 372.  
 Toy, Oscillating. J. E. L. Larson. No. 932,988; Aug. 31; Sp. p. 7061; Gaz. vol. 145; p. 1214.  
 Toy pistol. M. D. Greenwood. No. 920,565; May 4; Sp. p. 958; Gaz. vol. 142; p. 156.  
 Toy pistol. C. V. Wertz. No. 926,306; June 29; Sp. p. 6745; Gaz. vol. 143; p. 1189.  
 Toy pistol, Coin-receiving. J. H. Bevington. No. 934,957; Sept. 21; Sp. p. 3981; Gaz. vol. 146; p. 692.  
 Toy pistol, Match-shooting. G. A. Reynolds and H. E. Bennett. No. 924,936; June 15; Sp. p. 3944; Gaz. vol. 143; p. 674.  
 Toy pistols and rifles, Paper primer for. L. F. Mauny. No. 934,740; Sept. 21; Sp. p. 3549; Gaz. vol. 146; p. 619.  
 Toy push-wheel. J. Hanley. No. 937,523; Oct. 19; Sp. p. 4038; Gaz. vol. 147; p. 686.  
 Toy, Pyrotechnic. A. and C. Weinrich. No. 909,265; Jan. 12; Sp. p. 1700; Gaz. vol. 138; p. 306.  
 Toy railway-stations, Dome for. H. C. Ives. No. 935,110; Sept. 28; Sp. p. 4313; Gaz. vol. 146; p. 769.  
 Toy rifle, gun, and like arm. G. Schrödel. No. 938,081; Oct. 26; Sp. p. 5196; Gaz. vol. 147; p. 890.  
 Toy, Rolling. O. Prior. No. 941,946; Nov. 30; Sp. p. 7677; Gaz. vol. 148; p. 1293.  
 Toy savings-bank. F. P. Huyck and J. D. R. Lamson. No. 944,038; Dec. 21; Sp. p. 4314; Gaz. vol. 149; p. 744.  
 Toy, Sounding. J. Berg. No. 942,162; Dec. 7; Sp. p. 291; Gaz. vol. 149; p. 45.  
 Toy, Sounding. W. Bartholomae. No. 942,610; Dec. 7; Sp. p. 1208; Gaz. vol. 149; p. 197.  
 Toy, Sounding. M. P., B. B., and A. S. Exline. No. 943,529; Dec. 14; Sp. p. 3208; Gaz. vol. 149; p. 540.  
 Toy spinner. W. Bohn. No. 922,842; May 25; Sp. p. 5659; Gaz. vol. 142; p. 992.  
 Toy top. J. A. Irving. No. 925,479; June 22; Sp. p. 4995; Gaz. vol. 143; p. 882.  
 Toy tree-holder. E. Barton. No. 926,638; June 29; Sp. p. 7356; Gaz. vol. 143; p. 1298.  
 Toy vehicle. H. T. Kingsbury. No. 922,914; May 25; Sp. p. 5819; Gaz. vol. 142; p. 1015.  
 Toy water-mill. J. and R. Gaube. No. 923,640; June 1; Sp. p. 1176; Gaz. vol. 143; p. 181.  
 Toy, Wheel. H. T. Kingsbury. No. 921,258; May 11; Sp. p. 2378; Gaz. vol. 142; p. 416.  
 Toy, Wheeled. J. B. Spencer. No. 922,639; May 25; Sp. p. 5236; Gaz. vol. 142; p. 926.  
 Toy, Windmill. G. Masulla. No. 929,316; July 27; Sp. p. 5445; Gaz. vol. 144; p. 958.  
 Toys, Joint connection for mechanical. R. Steiff. No. 934,025; Sept. 14; Sp. p. 2145; Gaz. vol. 146; p. 355.  
 Trace attachment. J. Wittner. No. 922,373; May 18; Sp. p. 4668; Gaz. vol. 142; p. 810.  
 Trace attachment, Harness-. G. Goldbach. No. 926,249; June 29; Sp. p. 6638; Gaz. vol. 143; p. 1171.  
 Trace-carrier. S. Wold. No. 913,601; Feb. 23; Sp. p. 5331; Gaz. vol. 139; p. 944.  
 Trace-carrier. R. W. Brooks. No. 922,384; May 18; Sp. p. 4685; Gaz. vol. 142; p. 813.  
 Trace-connector, Adjustable. A. R. Erwin. No. 908,984; Jan. 5; Sp. p. 1147; Gaz. vol. 138; p. 181.  
 Trace-fastener. B. F. Woodhouse. No. 922,992; May 25; Sp. p. 5962; Gaz. vol. 142; p. 1040.  
 Trace-holder. J. S. Douglass. No. 911,218; Feb. 2; Sp. p. 382; Gaz. vol. 139; p. 67.  
 Trace-holder. J. W. and J. T. Tracy. No. 916,063; Mar. 23; Sp. p. 4923; Gaz. vol. 140; p. 872.  
 Trace-holder. A. L. Ludwig. No. 926,706; June 29; Sp. p. 7492; Gaz. vol. 143; p. 1320.  
 Trace-hook. A. P. Hoard. No. 941,520; Nov. 30; Sp. p. 6780; Gaz. vol. 148; p. 1148.  
 Trace-releaser. W. J. Parvin. No. 938,072; Oct. 26; Sp. p. 5161; Gaz. vol. 147; p. 886.  
 Trace-support and skirt-end loop, Adjustable. H. M. Dingsley. No. 919,554; Apr. 27; Sp. p. 5584; Gaz. vol. 141; p. 960.  
 Tracing instrument. H. M. C. Jahnholz. No. 933,759; Sept. 14; Sp. p. 1637; Gaz. vol. 146; p. 270.  
 Track-aligning apparatus. R. and F. B. Shaw. No. 916,040; Mar. 23; Sp. p. 4886; Gaz. vol. 140; p. 865.  
 Track-board support. G. C. Blossom. No. 919,119; Apr. 20; Sp. p. 4462; Gaz. vol. 141; p. 779.  
 Track-brace. M. P. Bardon. No. 925,981; June 22; Sp. p. 6051; Gaz. vol. 143; p. 1046.  
 Track-brake. W. W. Allen. No. 924,720; June 15; Sp. p. 3495; Gaz. vol. 143; p. 601.  
 Track, Carrier-. W. and J. F. Mitchell. No. 931,455; Aug. 17; Sp. p. 3870; Gaz. vol. 145; p. 667.  
 Track-cleaner. H. Quertier. No. 936,256; Oct. 5; Sp. p. 1348; Gaz. vol. 147; p. 207.  
 Track construction. H. C. Grant. No. 925,332; June 15; Sp. p. 4706; Gaz. vol. 143; p. 804.  
 Track construction. W. A. Braden. No. 927,216; July 6; Sp. p. 1065; Gaz. vol. 144; p. 173.  
 Track construction. H. Ehman. No. 941,674; Nov. 30; Sp. p. 7090; Gaz. vol. 148; p. 1198.



*Alphabetical list of inventions—Continued.*

- Track construction and electric signaling and controlling equipment thereof. G. Thompson. No. 923,800; June 1; Sp. p. 1574; Gaz. vol. 143; p. 233.
- Track-fastening. H. C. Stickel. No. 910,027; Jan. 19; Sp. p. 3213; Gaz. vol. 138; p. 593.
- Track-fastening and tie. D. A. Brubaker. No. 909,144; Jan. 12; Sp. p. 1480; Gaz. vol. 138; p. 269.
- Track-gage. F. S. Roller. No. 926,770; July 6; Sp. p. 128; Gaz. vol. 144; p. 21.
- Track-gage. G. B. Perkins and J. S. Forbes. No. 930,791; Aug. 10; Sp. p. 2397; Gaz. vol. 145; p. 415.
- Track hanger, Elevated-. H. B. Callander. No. 933,416; Sept. 7; Sp. p. 356; Gaz. vol. 146; p. 133.
- Track-inspector, Automatic. T. Ellis, G. H. Purvis, and J. S. Creech. No. 938,993; Nov. 2; Sp. p. 1176; Gaz. vol. 148; p. 188.
- Track-joint. H. A. Myers. No. 914,443; Mar. 9; Sp. p. 1672; Gaz. vol. 140; p. 286.
- Track-joint. H. A. Myers. No. 936,016; Oct. 5; Sp. p. 878; Gaz. vol. 147; p. 132.
- Track-laying apparatus. H. W. Jacobs. No. 934,728; Sept. 21; Sp. p. 3528; Gaz. vol. 146; p. 614.
- Track-laying apparatus. R. C. Spandau. No. 936,679; Oct. 12; Sp. p. 2276; Gaz. vol. 147; p. 378.
- Track-laying machine. J. H. White. No. 931,166; Aug. 17; Sp. p. 3256; Gaz. vol. 145; p. 568.
- Track-leveling device. E. A. Warren. No. 932,076; Aug. 24; Sp. p. 5224; Gaz. vol. 145; p. 891.
- Track-lifter. R. B. Wakeley. No. 941,476; Nov. 30; Sp. p. 6692; Gaz. vol. 148; p. 1134.
- Track, Overhead. A. H. Neller. No. 941,805; Nov. 30; Sp. p. 7388; Gaz. vol. 148; p. 1243.
- Track-rail support. J. W. Kemmerle. No. 931,206; Aug. 17; Sp. p. 3348; Gaz. vol. 145; p. 582.
- Track-raising machine. L. Tanner. No. 932,829; Aug. 31; Sp. p. 6779; Gaz. vol. 145; p. 1167.
- Track-sander. J. W. Brady. No. 909,056; Jan. 5; Sp. p. 1270; Gaz. vol. 138; p. 204.
- Track-sander. C. W. G. King. No. 914,425; Mar. 9; Sp. p. 1638; Gaz. vol. 140; p. 280.
- Track-sander. F. W. Cole. No. 935,778; Oct. 5; Sp. p. 354; Gaz. vol. 147; p. 53.
- Track-sander. P. J. Coady. No. 942,377; Dec. 7; Sp. p. 721; Gaz. vol. 149; p. 118.
- Track-sander. A. W. Ham. No. 942,726; Dec. 7; Sp. p. 1440; Gaz. vol. 149; p. 235.
- Track-sander. H. Vissering. No. 943,288; Dec. 14; Sp. p. 2705; Gaz. vol. 149; p. 457.
- Track-sander. D. Tauriello. No. 943,487; Dec. 14; Sp. p. 3117; Gaz. vol. 149; p. 525.
- Track-sanding apparatus. F. L. Robinson and J. McCabe. No. 910,726; Jan. 26; Sp. p. 4690; Gaz. vol. 138; p. 853.
- Track-sanding apparatus. I. A. Gibbs. No. 920,863; May 4; Sp. p. 1559; Gaz. vol. 142; p. 252.
- Track-sanding apparatus. I. A. Gibbs. No. 927,459; July 6; Sp. p. 1542; Gaz. vol. 144; p. 253.
- Track-sanding apparatus. C. P. White. No. 930,008; Aug. 3; Sp. p. 819; Gaz. vol. 145; p. 131.
- Track-sanding apparatus. J. W. Stickley. No. 940,375; Nov. 16; Sp. p. 4293; Gaz. vol. 148; p. 721.
- Track-sanding device. C. P. White. No. 920,230; May 4; Sp. p. 279; Gaz. vol. 142; p. 45.
- Track-sanding device. E. A. Longmire. No. 931,444; Aug. 17; Sp. p. 3851; Gaz. vol. 145; p. 664.
- Track-sanding device. M. A. Brown. No. 937,358; Oct. 19; Sp. p. 3657; Gaz. vol. 147; p. 629.
- Track-sanding device. E. L. Larson. No. 939,718; Nov. 9; Sp. p. 2798; Gaz. vol. 148; p. 462.
- Track-sanding device. W. H. Prendergast. No. 940,476; Nov. 16; Sp. p. 4513; Gaz. vol. 148; p. 755.
- Track-section tram-rail system, Movable-. J. Hyslop. No. 915,604; Mar. 16; Sp. p. 4017; Gaz. vol. 140; p. 693.
- Track-straightener. M. E. Loehr. No. 910,209; Jan. 19; Sp. p. 3597; Gaz. vol. 138; p. 653.
- Track structure. C. W. Kutz. No. 941,324; Nov. 23; Sp. p. 6339; Gaz. vol. 148; p. 1060.
- Track-supporting device, Overhead-. A. H. Neller and W. Louden. No. 939,618; Nov. 9; Sp. p. 2594; Gaz. vol. 148; p. 427.
- Track-surfacing level. O. H. Tolley and J. T. Taylor. No. 931,973; Aug. 24; Sp. p. 4995; Gaz. vol. 145; p. 856.
- Track-tamping implement. A. F. Hart. No. 935,757; Oct. 5; Sp. p. 284; Gaz. vol. 147; p. 46.
- Track-tie, Reinforced-concrete. W. Gabriel. No. 908,765; Jan. 5; Sp. p. 711; Gaz. vol. 138; p. 110.
- Tracker-bar. G. P. Brand. No. 909,532; Jan. 12; Sp. p. 2222; Gaz. vol. 138; p. 394.
- Tracker-bar. R. W. Pain. No. 916,584; Mar. 30; Sp. p. 5961; Gaz. vol. 140; p. 1069.
- Tracker-bar. R. J. Kelin. No. 925,777; June 22; Sp. p. 5644; Gaz. vol. 143; p. 979.
- Tracker-board. R. S. Gourlay. No. 909,082; Jan. 5; Sp. p. 1325; Gaz. vol. 138; p. 213.
- Tracker-board. R. W. Pain. No. 911,064; Feb. 2; Sp. p. 82; Gaz. vol. 139; p. 15.
- Tracker-board. F. C. White. No. 939,178; Nov. 2; Sp. p. 1559; Gaz. vol. 148; p. 253.
- Tracker mechanism, Double. T. P. Brown. No. 919,317; Apr. 27; Sp. p. 5061; Gaz. vol. 141; p. 879.
- Traction and lawn-rolling roller. H. T. Coldwell. No. 933,292; Sept. 7; Sp. p. 594; Gaz. vol. 146; p. 91.
- Traction apparatus for field operations. S. C. McCandless. No. 910,217; Jan. 19; Sp. p. 3614; Gaz. vol. 138; p. 657.
- Traction-coupling. M. J. Todd. No. 910,329; Jan. 19; Sp. p. 3881; Gaz. vol. 138; p. 698.
- Traction-coupling. M. Westra. No. 942,764; Dec. 7; Sp. p. 1514; Gaz. vol. 149; p. 248.
- Traction device. E. W. Wickey. No. 920,510; May 4; Sp. p. 845; Gaz. vol. 142; p. 136.
- Traction device. M. E. Schmidt. No. 939,334; Nov. 9; Sp. p. 1945; Gaz. vol. 148; p. 332.
- Traction device and emergency-brake, Electromagnetic. C. A. Wells. (Reissue.) No. 12,950; Apr. 27; Sp. p. 6761; Gaz. vol. 141; p. 1145.
- Traction-engine. G. R. Goughnour. No. 914,137; Mar. 2; Sp. p. 1031; Gaz. vol. 140; p. 163.
- Traction-engine. D. Roberts and C. James. No. 916,601; Mar. 30; Sp. p. 5992; Gaz. vol. 140; p. 1075.
- Traction-engine. J. A. Graft. No. 917,590; Apr. 6; Sp. p. 1229; Gaz. vol. 141; p. 215.
- Traction-engine. D. T. Timberlake. No. 927,085; July 6; Sp. p. 818; Gaz. vol. 144; p. 131.
- Traction-engine. F. H. Graham. No. 931,753; Aug. 24; Sp. p. 4510; Gaz. vol. 145; p. 785.
- Traction-engine. J. P. Davis. No. 935,589; Sept. 28; Sp. p. 5275; Gaz. vol. 146; p. 925.
- Traction-engine. A. O. Espe. No. 944,236; Dec. 21; Sp. p. 4707; Gaz. vol. 149; p. 807.
- Traction-increasing device. A. E. Kintner. No. 938,490; Nov. 2; Sp. p. 96; Gaz. vol. 148; p. 15.
- Traction system, Electromagnetic. G. L. Stanbro and A. D. Wagner. No. 940,487; Nov. 16; Sp. p. 4534; Gaz. vol. 148; p. 759.
- Traction-wheel. D. L. Brownfield. No. 913,257; Feb. 23; Sp. p. 4612; Gaz. vol. 139; p. 827.
- Traction-wheel. C. T. Bangs. No. 926,313; June 29; Sp. p. 6752; Gaz. vol. 143; p. 1191.
- Traction-wheel. C. M. Bell. No. 926,844; July 6; Sp. p. 294; Gaz. vol. 144; p. 47.
- Traction-wheel. N. Campbell. No. 928,848; July 20; Sp. p. 4432; Gaz. vol. 144; p. 772.
- Traction-wheel. W. L. Martin. No. 932,798; Aug. 31; Sp. p. 6726; Gaz. vol. 145; p. 1153.
- Train at definite points of a track, Apparatus for indicating the passage of a. J. E. Colas. No. 926,098; June 29; Sp. p. 6306; Gaz. vol. 143; p. 1120.
- Train-controlling mechanism. J. G. Schlee. No. 914,521; Mar. 9; Sp. p. 1829; Gaz. vol. 140; p. 312.
- Train-controlling mechanism. O. Gibson. No. 936,443; Oct. 12; Sp. p. 1790; Gaz. vol. 147; p. 297.
- Train-despatcher's chart. P. J. Simmen. No. 940,079; Nov. 16; Sp. p. 3624; Gaz. vol. 148; p. 618.
- Train-door fastening, Freight-. M. C. Devine. No. 933,632; Sept. 7; Sp. p. 1367; Gaz. vol. 146; p. 204.
- Train-indicator. P. Ferrari. No. 918,028; Apr. 13; Sp. p. 2181; Gaz. vol. 141; p. 391.
- Train-indicator. F. Ehretzman. No. 925,164; June 15; Sp. p. 4403; Gaz. vol. 143; p. 752.
- Train interlocker and cross-bridge. J. Cooperstock. No. 938,980; Nov. 2; Sp. p. 1149; Gaz. vol. 148; p. 183.
- Train-lighting system. D. C. Jackson. No. 931,613; Aug. 17; Sp. p. 4167; Gaz. vol. 145; p. 715.
- Train-line coupling, Automatic. J. W. Jackson. No. 938,585; Nov. 2; Sp. p. 332; Gaz. vol. 148; p. 49.
- Train manipulation, System and device for indicating. L. B. Stillwell. No. 936,488; Oct. 12; Sp. p. 1885; Gaz. vol. 147; p. 312.
- Train-number indicator for locomotives. H. J. Small. No. 920,403; May 4; Sp. p. 635; Gaz. vol. 142; p. 102.
- Train or vehicle, Electric. J. L. Creveling. No. 922,752; May 25; Sp. p. 5471; Gaz. vol. 142; p. 962.
- Train-order cabinet, Safety. C. B. Hanley. No. 924,772; June 15; Sp. p. 3610; Gaz. vol. 143; p. 619.
- Train-order-delivering apparatus. J. M. Butcher. No. 908,839; Jan. 5; Sp. p. 849; Gaz. vol. 138; p. 133.
- Train-order-delivering apparatus. W. W. Allen. No. 935,632; Oct. 5; Sp. p. 9; Gaz. vol. 147; p. 4.
- Train-order-delivering device. T. E. McCann. No. 914,158; Mar. 2; Sp. p. 1066; Gaz. vol. 140; p. 169.
- Train-order holding and delivering device. L. J. Greene and G. Burdett. No. 909,585; Jan. 12; Sp. p. 2327; Gaz. vol. 138; p. 412.
- Train-order signal. W. T. Gates. No. 922,273; May 18; Sp. p. 4486; Gaz. vol. 142; p. 778.
- Train orders and messages, Device for handling. S. Kipp. No. 932,873; Aug. 31; Sp. p. 6854; Gaz. vol. 145; p. 1177.
- Train-position indicator. O. Halvorsen. No. 918,537; Apr. 20; Sp. p. 3208; Gaz. vol. 141; p. 587.
- Train-shed. F. A. Berne. No. 910,776; Jan. 26; Sp. p. 4806; Gaz. vol. 138; p. 869.
- Train signal and stopping system, Automatic compressed-air. R. B. Robinson. No. 911,161; Feb. 2; Sp. p. 273; Gaz. vol. 139; p. 48.
- Train-signal system. H. H. Sharp and W. R. Vanaman. No. 916,038; Mar. 23; Sp. p. 4882; Gaz. vol. 140; p. 864.
- Train stop and signal, Automatic. W. H. Harris. No. 933,440; Sept. 7; Sp. p. 897; Gaz. vol. 146; p. 140.
- Train-stop, Automatic. H. W. Wilson and N. H. Tallman. No. 910,338; Jan. 19; Sp. p. 3895; Gaz. vol. 138; p. 701.
- Train-stop, Automatic. W. J. Sosene. No. 942,189; Dec. 7; Sp. p. 344; Gaz. vol. 149; p. 53.
- Train-stop, Time-limit. W. Brewer. No. 925,355; July 20; Sp. p. 3462; Gaz. vol. 144; p. 611.
- Train-stopping device. J. E. Maloney, J. Harvey, and C. Paul. No. 924,482; June 8; Sp. p. 2980; Gaz. vol. 143; p. 487.
- Train-stopping mechanism. J. F. Webb, Jr. No. 925,733; June 22; Sp. p. 5527; Gaz. vol. 143; p. 964.
- Train-stopping system. J. F. Webb, Jr. No. 932,923; Aug. 31; Sp. p. 6940; Gaz. vol. 145; p. 1193.

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- Train-stopping system. J. F. Webb, Jr. No. 932,926; Aug. 31; Sp. p. 6952; Gaz. vol. 145; p. 1194.
- Train-switching systems, Closed-circuit wiring for automatic. J. F. Webb, Jr. No. 932,925; Aug. 31; Sp. p. 6946; Gaz. vol. 145; p. 1193.
- Train-switch, Electrically-actuated. J. Y. Porter. No. 939,626; Nov. 9; Sp. p. 2612; Gaz. vol. 148; p. 430.
- Trains and signaling the engineer in charge, Apparatus for automatically stopping steam and electric. G. P. Burke. No. 921,793; May 18; Sp. p. 3495; Gaz. vol. 142; p. 621.
- Trains, Apparatus for announcing the approach and destination of. J. P. Coleman. No. 920,435; May 4; Sp. p. 701; Gaz. vol. 142; p. 111.
- Trains, Apparatus for automatically controlling the speed of. J. G. Schreuder and V. K. Spicer. No. 912,897; Feb. 16; Sp. p. 3872; Gaz. vol. 139; p. 683.
- Trains, Means for controlling the operation of. J. F. and J. F. Webb, Jr. No. 928,350; July 20; Sp. p. 3452; Gaz. vol. 144; p. 609.
- Trains, Means for transferring passengers to and from moving. J. Ross. No. 941,954; Nov. 30; Sp. p. 7690; Gaz. vol. 148; p. 1296.
- Trains, Resetting mechanism for recording. O. White. No. 936,591; Oct. 12; Sp. p. 2087; Gaz. vol. 147; p. 347.
- Training-machine, Mechanical. T. Volk. No. 921,755; May 18; Sp. p. 3418; Gaz. vol. 142; p. 608.
- Trammel, Folding. C. O. Carrier. No. 916,912; Mar. 30; Sp. p. 6572; Gaz. vol. 140; p. 1171.
- Trammel-point. A. Turnbull. No. 913,993; Mar. 2; Sp. p. 714; Gaz. vol. 140; p. 113.
- Tramway, Aerial. C. A. Dunlavy, E. G. W. Ferguson, and B. Thoens. No. 914,397; Mar. 9; Sp. p. 1589; Gaz. vol. 140; p. 270.
- Tramway, Aerial. W. S. La Shells. No. 916,335; Mar. 23; Sp. p. 5414; Gaz. vol. 140; p. 962.
- Tramway, Aerial. H. S. Robinson. No. 942,518; Dec. 7; Sp. p. 1026; Gaz. vol. 149; p. 166.
- Tramway buckets, Traction-rope-gripping device for aerial wire-rope. J. H. Montgomery. No. 915,104; Mar. 16; Sp. p. 3001; Gaz. vol. 140; p. 529.
- Tramway, Elevated. W. C. Lawson. No. 921,718; May 18; Sp. p. 3350; Gaz. vol. 142; p. 597.
- Tramway-point. E. Veevers and G. H. Butterworth. No. 917,197; Apr. 6; Sp. p. 482; Gaz. vol. 141; p. 84.
- Tramway-switch. N. Schwarz. No. 942,288; Dec. 7; Sp. p. 560; Gaz. vol. 149; p. 88.
- Tramways, Construction of electric. S. G. Bennett. No. 921,665; May 18; Sp. p. 3253; Gaz. vol. 142; p. 578.
- Tramways, Point-operating mechanism for. T. N. Atkinson. No. 939,939; Nov. 9; Sp. p. 3274; Gaz. vol. 148; p. 540.
- Tramways, Rope-grip for aerial wire-rope. J. H. Montgomery. No. 937,319; Oct. 19; Sp. p. 3570; Gaz. vol. 147; p. 617.
- Transfer-hanger. T. E. and E. Hudson. No. 942,326; Dec. 7; Sp. p. 633; Gaz. vol. 149; p. 101.
- Transfer mechanism. V. Ross. No. 921,165; May 11; Sp. p. 2179; Gaz. vol. 142; p. 383.
- Transfer-press. W. L. Sloane and J. S. Owsley. No. 936,954; Oct. 12; Sp. p. 2813; Gaz. vol. 147; p. 469.
- Transfer-table. J. M. Elder. No. 922,114; May 18; Sp. p. 4154; Gaz. vol. 142; p. 726.
- Transferring material from a high to a lower level, Apparatus for. A. C. Johnston. No. 942,449; Dec. 7; Sp. p. 868; Gaz. vol. 149; p. 142.
- Transformer. H. B. Smith. No. 914,981; Mar. 9; Sp. p. 2740; Gaz. vol. 140; p. 462.
- Transformer. H. F. Selinger. No. 916,792; Mar. 30; Sp. p. 6331; Gaz. vol. 140; p. 1131.
- Transformer. J. J. Frank. No. 919,338; Apr. 27; Sp. p. 5109; Gaz. vol. 141; p. 886.
- Transformer. F. M. Slough. No. 937,877; Oct. 26; Sp. p. 4751; Gaz. vol. 147; p. 821.
- Transformer-furnace. E. A. A. Grönwall, A. R. Lindblad, and O. Stålhane. No. 942,961; Dec. 14; Sp. p. 1996; Gaz. vol. 149; p. 346.
- Transformer structure. C. L. Fortescue. No. 914,941; Mar. 9; Sp. p. 2678; Gaz. vol. 140; p. 449.
- Transformer system. K. C. Randall. No. 917,794; Apr. 13; Sp. p. 1670; Gaz. vol. 141; p. 309.
- Transit. P. Ferber. No. 933,897; Sept. 14; Sp. p. 1906; Gaz. vol. 146; p. 315.
- Transits and hand-levels, Attachment for engineers'. F. W. Austin. No. 925,674; June 22; Sp. p. 5392; Gaz. vol. 143; p. 914.
- Transmission and chain-adjustment mechanism, Combined. J. M. Michaelson. No. 913,531; Feb. 23; Sp. p. 5164; Gaz. vol. 139; p. 921.
- Transmission apparatus. J. O. Forker. No. 927,961; July 13; Sp. p. 2633; Gaz. vol. 144; p. 448.
- Transmission-controller. C. E. Cox. No. 941,407; Nov. 30; Sp. p. 6553; Gaz. vol. 148; p. 1111.
- Transmission mechanism. M. Bouchet. No. 914,108; Mar. 2; Sp. p. 974; Gaz. vol. 140; p. 153.
- Transmission mechanism. B. F. Seymour. No. 920,190; May 4; Sp. p. 194; Gaz. vol. 142; p. 31.
- Transmission mechanism. B. F. Seymour. No. 920,192; May 4; Sp. p. 200; Gaz. vol. 142; p. 32.
- Transmission mechanism. F. H. Merrill. No. 920,363; May 4; Sp. p. 554; Gaz. vol. 142; p. 89.
- Transmission mechanism. M. Drapier. No. 924,749; June 15; Sp. p. 3560; Gaz. vol. 143; p. 611.
- Transmission mechanism. J. W. R. Andrews. No. 935,882; Oct. 5; Sp. p. 610; Gaz. vol. 147; p. 87.
- Transmission mechanism. E. Bonneau. No. 942,882; Dec. 14; Sp. p. 1804; Gaz. vol. 149; p. 319.
- Transmission mechanism. Friction. J. P. Davis. No. 911,947; Feb. 9; Sp. p. 1801; Gaz. vol. 139; p. 332.
- Transmission mechanism. Friction. J. Becker. No. 941,402; Nov. 30; Sp. p. 6532; Gaz. vol. 148; p. 1109.
- Transmission mechanism. Temperature-controlled. H. H. Taylor. No. 939,566; Nov. 9; Sp. p. 2472; Gaz. vol. 148; p. 410.
- Transmission system. E. Riecke. No. 925,385; June 15; Sp. p. 4804; Gaz. vol. 143; p. 821.
- Transmission system. J. Schlig. No. 930,419; Aug. 10; Sp. p. 1602; Gaz. vol. 145; p. 290.
- Transmitter. R. Hansen. No. 916,950; Mar. 30; Sp. p. 6654; Gaz. vol. 140; p. 1186.
- Transmitter-mouthpiece. W. W. Dean. No. 927,643; July 13; Sp. p. 1953; Gaz. vol. 144; p. 342.
- Transmitter, Multiplex. J. J. Comer. No. 943,915; Dec. 21; Sp. p. 4055; Gaz. vol. 149; p. 702.
- Transmitting apparatus. H. Shoemaker. No. 918,208; Apr. 13; Sp. p. 2537; Gaz. vol. 141; p. 452.
- Transmitting apparatus. H. Shoemaker. No. 921,013; May 11; Sp. p. 1869; Gaz. vol. 142; p. 331.
- Transmitting apparatus. H. Shoemaker. No. 921,293; May 11; Sp. p. 2454; Gaz. vol. 142; p. 427.
- Transmitting apparatus. H. Shoemaker. No. 926,900; July 6; Sp. p. 401; Gaz. vol. 144; p. 65.
- Transmitting apparatus. H. Shoemaker. No. 927,433; July 6; Sp. p. 1475; Gaz. vol. 144; p. 244.
- Transmitting apparatus. H. Shoemaker. No. 932,820; Aug. 31; Sp. p. 6763; Gaz. vol. 145; p. 1160.
- Transmitting instrument. G. E. Winslow. No. 911,354; Feb. 2; Sp. p. 650; Gaz. vol. 139; p. 111.
- Transom. J. H. Gilman. No. 924,656; June 15; Sp. p. 3361; Gaz. vol. 143; p. 579.
- Transom and window operating mechanism. F. A. Bickley. No. 925,555; June 22; Sp. p. 5144; Gaz. vol. 143; p. 907.
- Transom draft-gear. E. P. Kinne. No. 926,812; July 6; Sp. p. 212; Gaz. vol. 144; p. 35.
- Transom-lifter. A. C. Goethel. No. 938,475; Nov. 2; Sp. p. 46; Gaz. vol. 148; p. 10.
- Transom-operating device. G. Dickie. No. 921,596; May 11; Sp. p. 3064; Gaz. vol. 142; p. 526.
- Transom-operating device, Self-locking. G. Dickie. No. 925,163; June 15; Sp. p. 4402; Gaz. vol. 143; p. 751.
- Transom-pivot. J. H. Gilman. No. 929,584; July 27; Sp. p. 5932; Gaz. vol. 144; p. 1043.
- Transom-ratchet. L. J. Berg. No. 938,952; Nov. 2; Sp. p. 1099; Gaz. vol. 148; p. 175.
- Transplanter. C. D. Briddell. No. 915,546; Mar. 16; Sp. p. 3887; Gaz. vol. 140; p. 674.
- Transplanter. E. E. Husted. No. 921,993; May 18; Sp. p. 3923; Gaz. vol. 142; p. 686.
- Transplanting implement. L. C. Doughty. No. 938,651; Nov. 2; Sp. p. 450; Gaz. vol. 148; p. 70.
- Transport of material, Apparatus for. R. W. Shrewsbury. No. 920,196; May 4; Sp. p. 210; Gaz. vol. 142; p. 33.
- Transportation-receptacle for dead human bodies. C. L. Barnes. No. 924,029; June 8; Sp. p. 2036; Gaz. vol. 143; p. 338.
- Transportation system. W. C. Carr. No. 915,071; Mar. 16; Sp. p. 2899; Gaz. vol. 140; p. 517.
- Transportation system. W. C. Carr. No. 916,531; Mar. 30; Sp. p. 5860; Gaz. vol. 140; p. 1051.
- Transportation system. C. Worthington. No. 936,395; Oct. 12; Sp. p. 1656; Gaz. vol. 147; p. 281.
- Transportation system. W. C. Carr. No. 942,437; Dec. 7; Sp. p. 838; Gaz. vol. 149; p. 137.
- Transportation system. W. C. Carr. No. 943,810; Dec. 21; Sp. p. 3827; Gaz. vol. 149; p. 665.
- Transportation system, Elevated. A. E. Brock. No. 922,662; May 25; Sp. p. 5281; Gaz. vol. 142; p. 934.
- Transportation, System of river. J. S. Lane and J. L. Mathews. No. 936,336; Oct. 12; Sp. p. 1512; Gaz. vol. 147; p. 261.
- Transporting apparatus. F. L. Beaudont. No. 908,441; Jan. 5; Sp. p. 15; Gaz. vol. 138; p. 4.
- Trap: See Adjustable trap; Air-trap; Animal-trap; Ant-trap; Antisiphon-trap; Beehive-trap; Boll-weevil trap; Crab-trap; Eel-trap; Electric trap; Fish-trap; Fly-trap; Gas-trap; Hog-trap; Implement-trap; Insect-trap; Nest-trap; Plumbing-trap; Rat-trap; Resealing-trap; Sanitary trap; Self-setting trap; Sewer-trap; Sink-trap; Steam-trap; Tar and debris trap; Target-trap; Target-throwing trap; Water-trap; Window-screen fly-trap.
- Trap. P. S. Hicks. No. 909,797; Jan. 12; Sp. p. 2744; Gaz. vol. 138; p. 483.
- Trap. J. M. Hendrix. No. 910,000; Jan. 19; Sp. p. 3164; Gaz. vol. 138; p. 585.
- Trap. G. O. Miller. No. 913,221; Feb. 23; Sp. p. 4532; Gaz. vol. 139; p. 815.
- Trap. T. R. Culverhouse. No. 916,677; Mar. 30; Sp. p. 6135; Gaz. vol. 140; p. 1099.
- Trap. H. Barber. No. 919,116; Apr. 20; Sp. p. 4458; Gaz. vol. 141; p. 778.
- Trap. J. J. Donovan. No. 919,701; Apr. 27; Sp. p. 5883; Gaz. vol. 141; p. 1010.
- Trap. F. Jutras. No. 920,748; May 4; Sp. p. 1323; Gaz. vol. 142; p. 214.
- Trap. N. Frost. No. 922,126; May 18; Sp. p. 4174; Gaz. vol. 142; p. 730.
- Trap. J. C. Wood. No. 928,352; July 20; Sp. p. 3458; Gaz. vol. 144; p. 610.
- Trap. D. Morgan. No. 928,395; July 20; Sp. p. 3534; Gaz. vol. 144; p. 624.
- Trap. H. C. Folger. No. 934,664; Sept. 21; Sp. p. 3404; Gaz. vol. 146; p. 594.
- Trap. F. H. Hamblin. No. 935,974; Oct. 5; Sp. p. 797; Gaz. vol. 147; p. 118.
- Trap. J. Pozsonyi. No. 936,808; Oct. 12; Sp. p. 2522; Gaz. vol. 147; p. 421.



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- Trap. S. M. Cole. No. 937,360; Oct. 19; Sp. p. 3662; Gaz. vol. 147; p. 630.  
 Trap. C. Clark. No. 938,743; Nov. 2; Sp. p. 632; Gaz. vol. 148; p. 100.  
 Trap. P. Elstrom. No. 939,818; Nov. 9; Sp. p. 3018; Gaz. vol. 148; p. 497.  
 Trap. C. Janke. No. 940,877; Nov. 23; Sp. p. 5386; Gaz. vol. 148; p. 913.  
 Trap. W. W. Worcester. No. 940,911; Nov. 23; Sp. p. 5453; Gaz. vol. 148; p. 924.  
 Trap. G. W. Hess. No. 942,069; Dec. 7; Sp. p. 59; Gaz. vol. 149; p. 12.  
 Trap-door lift. A. G. Boggess. No. 936,294; Oct. 12; Sp. p. 1422; Gaz. vol. 147; p. 247.  
 Trap-fitting. J. M. McKerchey. No. 930,682; Aug. 10; Sp. p. 2169; Gaz. vol. 145; p. 379.  
 Trap-shooting, Scoring-machine for. C. F. Stewart. No. 926,907; July 6; Sp. p. 418; Gaz. vol. 144; p. 68.  
 Traveler-magazine, Waste-proof. J. R. Grubb. No. 932,983; Aug. 31; Sp. p. 7051; Gaz. vol. 145; p. 1212.  
 Traveling-bag. R. Ponickau. No. 923,373; June 1; Sp. p. 599; Gaz. vol. 143; p. 87.  
 Traveling-bag hinge. W. J. Petri. No. 941,040; Nov. 23; Sp. p. 5734; Gaz. vol. 148; p. 968.  
 Traveling cutter, Endless. W. V. Hadley. No. 929,087; July 27; Sp. p. 4932; Gaz. vol. 144; p. 879.  
 Traverse-ring. F. L. Lathrop. No. 929,676; Aug. 3; Sp. p. 66; Gaz. vol. 145; p. 13.  
 Traverse-ring. T. D. Stone. No. 930,999; Aug. 10; Sp. p. 2865; Gaz. vol. 145; p. 483.  
 Traverse-ring. F. L. Lathrop and H. E. Chase. No. 938,773; Nov. 2; Sp. p. 691; Gaz. vol. 148; p. 111.  
 Traverse-ring. W. H. Edsall. No. 944,720; Dec. 28; Sp. p. 5799; Gaz. vol. 149; p. 1002.  
 Travis-wheel. G. A. Crow. No. 910,787; Jan. 26; Sp. p. 4827; Gaz. vol. 138; p. 873.  
 Trawl-setter. A. M. Smith. No. 921,902; May 18; Sp. p. 3729; Gaz. vol. 142; p. 657.  
 Tray. J. J. Karges. No. 914,285; Mar. 2; Sp. p. 1342; Gaz. vol. 140; p. 208.  
 Tray. S. J. Schlappich, C. R. Ward, and J. S. Sheridan. No. 930,890; Aug. 10; Sp. p. 2618; Gaz. vol. 145; p. 448.  
 Tray adjustable support, Aseptic. C. F. Booth. No. 931,378; Aug. 17; Sp. p. 3723; Gaz. vol. 145; p. 642.  
 Tray attachment. G. R. Ernest. No. 936,104; Oct. 5; Sp. p. 1062; Gaz. vol. 147; p. 162.  
 Tray, Candy-. A. Strand. No. 937,656; Oct. 19; Sp. p. 4272; Gaz. vol. 147; p. 729.  
 Tray, Foldable. C. F. A. Eddy. No. 914,030; Mar. 2; Sp. p. 821; Gaz. vol. 140; p. 126.  
 Tray-holder. S. M. Schaeffe. No. 912,035; Feb. 9; Sp. p. 2069; Gaz. vol. 139; p. 360.  
 Tray, Letter-. W. W. Worcester. No. 933,517; Sept. 7; Sp. p. 1153; Gaz. vol. 146; p. 166.  
 Tray, Revolving. J. Richter. No. 924,938; June 15; Sp. p. 3949; Gaz. vol. 143; p. 675.  
 Tread-surface. F. R. Phillips. No. 917,354; Apr. 6; Sp. p. 811; Gaz. vol. 141; p. 139.  
 Tread-surface. F. R. Phillips. No. 917,355; Apr. 6; Sp. p. 812; Gaz. vol. 141; p. 139.  
 Treadle-governor. J. A. Robison. No. 932,580; Aug. 31; Sp. p. 6252; Gaz. vol. 145; p. 1081.  
 Treadle mechanism. H. W. Loder. No. 916,734; Mar. 30; Sp. p. 6227; Gaz. vol. 140; p. 1115.  
 Treadle mechanism. W. Bartholomew. No. 940,659; Nov. 23; Sp. p. 4911; Gaz. vol. 148; p. 841.  
 Tree: See Boot-tree; Boot and shoe tree; Shoe-tree.  
 Tree and plant guard and protector. W. Lippincott. No. 933,654; Sept. 7; Sp. p. 1404; Gaz. vol. 146; p. 211.  
 Tree-cover. W. W. Roberts. No. 935,057; Sept. 28; Sp. p. 4189; Gaz. vol. 146; p. 750.  
 Tree-felling apparatus. E. L. Freese. (Reissue.) No. 13,040; Nov. 16; Sp. p. 4890; Gaz. vol. 148; p. 814.  
 Tree or staff holder. C. Dreibus. No. 913,474; Feb. 23; Sp. p. 5042; Gaz. vol. 139; p. 901.  
 Tree prop, Fruit-. B. Fisher. No. 921,215; May 11; Sp. p. 2295; Gaz. vol. 142; p. 463.  
 Tree-protector. J. D. Clark. No. 916,106; Mar. 23; Sp. p. 5004; Gaz. vol. 140; p. 886.  
 Tree-protector. W. H. Mohr. No. 933,483; Sept. 7; Sp. p. 1076; Gaz. vol. 146; p. 155.  
 Trees and stumps from the soil by means of explosives, Extracting. G. Hunter. No. 917,441; Apr. 6; Sp. p. 961; Gaz. vol. 141; p. 167.  
 Trees and the like, Apparatus for moving growing. F. W. Taylor and H. Van Duzee. No. 944,522; Dec. 28; Sp. p. 5373; Gaz. vol. 149; p. 935.  
 Treeing-machine. E. N. Chandler. No. 930,937; Aug. 10; Sp. p. 2710; Gaz. vol. 145; p. 463.  
 Trellis-wire dropper, Hop-. W. A. Sloper. No. 934,023; Sept. 14; Sp. p. 2143; Gaz. vol. 146; p. 355.  
 Trench-cutting machine. J. Witter. No. 935,288; Sept. 28; Sp. p. 4651; Gaz. vol. 146; p. 826.  
 Trench or sewer digger. G. F. Rauch. No. 913,847; Mar. 2; Sp. p. 359; Gaz. vol. 140; p. 61.  
 Trenching device. E. M. Skinner. No. 926,145; June 29; Sp. p. 6400; Gaz. vol. 143; p. 1136.  
 Trenching-machines, Propelling means for. C. W. Rood. No. 935,059; Sept. 28; Sp. p. 4191; Gaz. vol. 146; p. 751.  
 Trepine. W. H. Hudson. No. 930,477; Aug. 10; Sp. p. 1715; Gaz. vol. 145; p. 310.  
 Trestle. E. W. and C. A. Cornett. No. 923,492; June 1; Sp. p. 842; Gaz. vol. 143; p. 128.  
 Trestle. R. J. Koch. No. 934,736; Sept. 21; Sp. p. 3543; Gaz. vol. 146; p. 617.  
 Trestle, Adjustable and collapsible. A. H. Kramer. No. 933,650; Sept. 7; Sp. p. 1388; Gaz. vol. 146; p. 209.  
 Trestle, Folding. S. R. Harris. No. 932,702; Aug. 31; Sp. p. 6513; Gaz. vol. 145; p. 1122.  
 Trestle, Folding. E. F. Whitehead. No. 943,328; Dec. 14; Sp. p. 2783; Gaz. vol. 149; p. 469.  
 Trestle, Mechanic's adjustable. M. Croner. No. 926,320; June 29; Sp. p. 6780; Gaz. vol. 143; p. 1193.  
 Trestle, Paper-hanger's folding. F. H. Skinner. No. 925,520; June 22; Sp. p. 5082; Gaz. vol. 143; p. 894.  
 Triangles, Apparatus for solving spherical. W. French and C. W. Frederick. No. 943,532; Dec. 14; Sp. p. 3213; Gaz. vol. 149; p. 541.  
 Tribromindigo and making same. W. Bauer and A. Herre. No. 937,040; Oct. 19; Sp. p. 2997; Gaz. vol. 147; p. 526.  
 Trick-chair. E. De Moulin. No. 941,135; Nov. 23; Sp. p. 5944; Gaz. vol. 148; p. 1000.  
 Trick lung-tester. C. E. Herd. No. 939,023; Nov. 2; Sp. p. 1235; Gaz. vol. 148; p. 197.  
 Trick-platform. E. De Moulin. No. 925,877; June 22; Sp. p. 5852; Gaz. vol. 143; p. 1012.  
 Trigger mechanism. E. R. Williams. No. 938,192; Oct. 26; Sp. p. 5437; Gaz. vol. 147; p. 928.  
 Trigger mechanism, Single-. J. D. Russ. No. 914,516; Mar. 9; Sp. p. 1816; Gaz. vol. 140; p. 310.  
 Trigger mechanism, Single-. P. H. Robinson. No. 937,864; Oct. 26; Sp. p. 4725; Gaz. vol. 147; p. 817.  
 Trim-fastening. A. C. Goddard. No. 908,858; Jan. 5; Sp. p. 881; Gaz. vol. 138; p. 140.  
 Trimmer: See Cue-tip trimmer; Drain-tie trimmer; Hedge-trimmer; Hooft-trimmer; Last heel-trimmer; Lawn-trimmer; Lawn-edge trimmer; Looper-trimmer; Paper-trimmer; Pastry-cone trimmer; Pie-trimmer; Railway grass-trimmer; Shade-trimmer; Skirt-trimmer; Stereotype-trimmer; Weed-puller and tree-trimmer; Wick-trimmer.  
 Trimming and channeling machine, Combined. W. E. Small. No. 914,318; Mar. 2; Sp. p. 1415; Gaz. vol. 140; p. 218.  
 Trimming-knife. W. H. Ayers and C. A. Dorr. No. 940,420; Nov. 16; Sp. p. 4405; Gaz. vol. 148; p. 736.  
 Trimming mechanism. J. H. Michener, Jr. No. 929,619; July 27; Sp. p. 6023; Gaz. vol. 144; p. 1054.  
 Trimming mechanism. J. H. Michener, Jr. No. 937,684; Oct. 19; Sp. p. 4327; Gaz. vol. 147; p. 737.  
 Trimming-shears for lawns, hedges, &c. O. Kampfe. No. 935,309; Sept. 28; Sp. p. 4688; Gaz. vol. 146; p. 833.  
 Trip and signal device. G. A. Davis. No. 930,356; Aug. 10; Sp. p. 1479; Gaz. vol. 145; p. 270.  
 Trip-guard. W. J. Parrott. No. 915,471; Mar. 16; Sp. p. 3735; Gaz. vol. 140; p. 649.  
 Trip mechanism. W. H. Smith. No. 925,047; June 15; Sp. p. 4185; Gaz. vol. 143; p. 712.  
 Tripping device. C. G. Sprado. No. 923,592; June 1; Sp. p. 1080; Gaz. vol. 143; p. 164.  
 Tripod. L. C. and E. C. Roehlk. No. 911,544; Feb. 2; Sp. p. 990; Gaz. vol. 139; p. 173.  
 Tripod. R. Kroedel. No. 931,773; Aug. 24; Sp. p. 4557; Gaz. vol. 145; p. 791.  
 Tripod. H. A. Kircher. No. 937,612; Oct. 19; Sp. p. 4203; Gaz. vol. 147; p. 716.  
 Tripod. J. M. Pullen. No. 939,859; Nov. 9; Sp. p. 3095; Gaz. vol. 148; p. 511.  
 Tripod, Tilting-top. J. C. Fyfe. No. 931,692; Aug. 17; Sp. p. 4363; Gaz. vol. 145; p. 741.  
 Triturating and reducing mill. C. J. Best. No. 936,079; Oct. 5; Sp. p. 1017; Gaz. vol. 147; p. 153.  
 Triturating-mill, Tubular. R. B. Shafter. No. 926,441; June 29; Sp. p. 7004; Gaz. vol. 143; p. 1234.  
 Trolley. E. H. Green. No. 909,584; Jan. 12; Sp. p. 2326; Gaz. vol. 138; p. 412.  
 Trolley. W. J. Baker. No. 910,161; Jan. 19; Sp. p. 3475; Gaz. vol. 138; p. 636.  
 Trolley. P. H. Rosskamp and L. Kellermann. No. 911,448; Feb. 2; Sp. p. 810; Gaz. vol. 139; p. 141.  
 Trolley. S. B. Sickelsmith. No. 912,427; Feb. 16; Sp. p. 2897; Gaz. vol. 139; p. 525.  
 Trolley. A. S. Janin. No. 917,445; Apr. 6; Sp. p. 967; Gaz. vol. 141; p. 168.  
 Trolley. C. A. Dean. No. 917,556; Apr. 6; Sp. p. 1167; Gaz. vol. 141; p. 203.  
 Trolley. J. B. Phillips. No. 918,696; Apr. 20; Sp. p. 3621; Gaz. vol. 141; p. 641.  
 Trolley. J. T. Minahan. No. 919,449; Apr. 27; Sp. p. 5345; Gaz. vol. 141; p. 924.  
 Trolley. H. Burkhard. No. 920,427; May 4; Sp. p. 691; Gaz. vol. 142; p. 109.  
 Trolley. J. Shepherd. No. 920,674; May 4; Sp. p. 1190; Gaz. vol. 142; p. 191.  
 Trolley. C. W. Smith. No. 921,474; May 11; Sp. p. 2841; Gaz. vol. 142; p. 488.  
 Trolley. P. Coval and D. A. Kunkle. No. 921,512; May 11; Sp. p. 2920; Gaz. vol. 142; p. 501.  
 Trolley. C. Baker. No. 921,661; May 18; Sp. p. 3244; Gaz. vol. 142; p. 577.  
 Trolley. H. Lietz. No. 923,540; June 1; Sp. p. 941; Gaz. vol. 143; p. 146.  
 Trolley. E. Y. Moore. No. 927,994; July 13; Sp. p. 2682; Gaz. vol. 144; p. 457.  
 Trolley. F. Kompe. No. 928,668; July 20; Sp. p. 4095; Gaz. vol. 144; p. 713.  
 Trolley. N. W. Torer and T. Varney. No. 932,511; Aug. 31; Sp. p. 6097; Gaz. vol. 145; p. 1057.

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 Trolley. R. P. Jackson and C. Aalborg. No. 932,554; Aug. 31; Sp. p. 6186; Gaz. vol. 145; p. 1072.  
 Trolley. T. Varney. No. 932,651; Aug. 31; Sp. p. 6403; Gaz. vol. 145; p. 1105.  
 Trolley. T. Varney. No. 932,653; Aug. 31; Sp. p. 6407; Gaz. vol. 145; p. 1106.  
 Trolley. T. Varney. No. 932,654; Aug. 31; Sp. p. 6409; Gaz. vol. 145; p. 1106.  
 Trolley. J. Ledwinka. No. 933,084; Sept. 7; Sp. p. 97; Gaz. vol. 146; p. 16.  
 Trolley. G. G. Miller. No. 936,341; Oct. 12; Sp. p. 1537; Gaz. vol. 147; p. 263.  
 Trolley. O. W. Brenizer. No. 937,761; Oct. 26; Sp. p. 4507; Gaz. vol. 147; p. 782.  
 Trolley and support therefor. S. S. Goldman. No. 931,292; Aug. 17; Sp. p. 3547; Gaz. vol. 145; p. 612.  
 Trolley apparatus. C. O. Jackson. No. 944,869; Dec. 28; Sp. p. 6128; Gaz. vol. 149; p. 1053.  
 Trolley attachment. F. V. Polakoskey. No. 926,020; June 22; Sp. p. 6132; Gaz. vol. 143; p. 1059.  
 Trolley-base. J. A. Hanson. No. 914,719; Mar. 9; Sp. p. 2244; Gaz. vol. 140; p. 377.  
 Trolley-base. C. E. Gierding. No. 928,442; July 20; Sp. p. 3634; Gaz. vol. 144; p. 640.  
 Trolley-base. F. Volk. No. 933,505; Sept. 7; Sp. p. 1128; Gaz. vol. 146; p. 162.  
 Trolley-base. L. F. Mansfield and P. D. Smith. No. 935,040; Sept. 28; Sp. p. 4152; Gaz. vol. 146; p. 744.  
 Trolley-catcher. G. W. Kramer and A. G. Hague. No. 915,193; Mar. 16; Sp. p. 3202; Gaz. vol. 140; p. 559.  
 Trolley-catcher. C. I. Earll. No. 941,363; Nov. 30; Sp. p. 6432; Gaz. vol. 148; p. 1096.  
 Trolley-clamp. E. E. Rose. No. 931,345; Aug. 17; Sp. p. 3653; Gaz. vol. 145; p. 630.  
 Trolley-clamp. T. Varney. No. 931,355; Aug. 17; Sp. p. 3673; Gaz. vol. 145; p. 634.  
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 Trolley-clamp. H. P. Davis. No. 931,390; Aug. 17; Sp. p. 3751; Gaz. vol. 145; p. 647.  
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 Trolley-clip. J. C. Michaelson. No. 936,340; Oct. 12; Sp. p. 1535; Gaz. vol. 147; p. 263.  
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 Trolley for electric vehicles. T. Varney and N. W. Storer. No. 932,519; Aug. 31; Sp. p. 6109; Gaz. vol. 145; p. 1060.  
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 Trolley for traveling cranes. H. W. Israel. No. 935,514; Sept. 28; Sp. p. 5118; Gaz. vol. 146; p. 899.  
 Trolley frog and crossing. F. J. Venning. No. 914,207; Mar. 2; Sp. p. 1176; Gaz. vol. 140; p. 185.  
 Trolley-guard. G. W. Sandiford. No. 918,377; Apr. 13; Sp. p. 2872; Gaz. vol. 141; p. 507.  
 Trolley-guard. A. Hons and S. E. Martz. No. 926,565; June 29; Sp. p. 7209; Gaz. vol. 143; p. 1275.  
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 Trolley-guard. S. Stroup. No. 936,055; Oct. 5; Sp. p. 965; Gaz. vol. 147; p. 145.  
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 Trolley hanger and clamp. C. Aalborg. No. 931,366; Aug. 17; Sp. p. 3698; Gaz. vol. 145; p. 638.  
 Trolley-harp. J. Wickstrom. No. 908,719; Jan. 5; Sp. p. 616; Gaz. vol. 138; p. 96.  
 Trolley-harp. L. J. Tetlow. No. 919,263; Apr. 20; Sp. p. 4925; Gaz. vol. 141; p. 826.  
 Trolley-harp. F. A. Tribbe. No. 921,314; May 11; Sp. p. 2497; Gaz. vol. 142; p. 434.  
 Trolley-harp. T. A. Gannoe. No. 931,592; Aug. 17; Sp. p. 4115; Gaz. vol. 145; p. 708.  
 Trolley-harp. J. T. Archer. No. 940,574; Nov. 16; Sp. p. 4730; Gaz. vol. 148; p. 787.  
 Trolley harp and wheel. F. E. Hancock. No. 925,094; June 15; Sp. p. 4267; Gaz. vol. 143; p. 727.  
 Trolley-harp mounting. G. L. Adams. No. 928,016; July 13; Sp. p. 2725; Gaz. vol. 144; p. 465.  
 Trolley harp or pole. W. A. Dechant. No. 914,338; Mar. 2; Sp. p. 1447; Gaz. vol. 140; p. 225.  
 Trolley-head. W. E. Donnelly and W. L. Goyette. No. 910,797; Jan. 26; Sp. p. 4849; Gaz. vol. 138; p. 876.  
 Trolley-head. J. E. Robbins, W. A. and C. P. Kirkpatrick. No. 921,650; May 11; Sp. p. 3207; Gaz. vol. 142; p. 548.  
 Trolley-head. T. R. Stam. No. 939,564; Nov. 9; Sp. p. 2469; Gaz. vol. 148; p. 409.  
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 Trolley-head. B. F. Foss. No. 940,309; Nov. 16; Sp. p. 4138; Gaz. vol. 148; p. 698.  
 Trolley-head and guard. J. G. McGuffey and R. P. Dowler. No. 912,400; Feb. 16; Sp. p. 2850; Gaz. vol. 139; p. 517.  
 Trolley-head and trolley. G. H. Merwin. No. 921,265; May 11; Sp. p. 2388; Gaz. vol. 142; p. 419.  
 Trolley holding and retrieving device. J. W. Woodward. No. 925,549; June 22; Sp. p. 5131; Gaz. vol. 143; p. 904.  
 Trolley-lines, Automatic cut-off for. R. Brown. No. 930,150; Aug. 3; Sp. p. 1115; Gaz. vol. 145; p. 181.  
 Trolley, Overhead. J. H. Howard. No. 910,197; Jan. 19; Sp. p. 3564; Gaz. vol. 138; p. 648.  
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 Trolley-pole. G. T. Barr, Sr. No. 915,152; Mar. 16; Sp. p. 3108; Gaz. vol. 140; p. 545.  
 Trolley-pole. S. Speer. No. 933,208; Sept. 7; Sp. p. 391; Gaz. vol. 146; p. 62.  
 Trolley-pole. J. Harsen. No. 937,935; Oct. 26; Sp. p. 4873; Gaz. vol. 147; p. 841.  
 Trolley-pole attachment. H. W. Eichbaum. No. 908,981; Jan. 5; Sp. p. 1142; Gaz. vol. 138; p. 181.  
 Trolley-pole base. C. C. Hale. No. 932,984; Aug. 31; Sp. p. 7054; Gaz. vol. 145; p. 1213.  
 Trolley-pole catcher. J. H. Walker. No. 941,216; Nov. 23; Sp. p. 6125; Gaz. vol. 148; p. 1027.  
 Trolley-pole-controlling means. C. E. Cozens. No. 928,306; July 20; Sp. p. 3373; Gaz. vol. 144; p. 594.  
 Trolley-pole fastening. O. L. Spry. No. 909,247; Jan. 12; Sp. p. 1670; Gaz. vol. 138; p. 301.  
 Trolley-pole for electric-railway cars. T. Oliver. No. 928,879; July 20; Sp. p. 4503; Gaz. vol. 144; p. 784.  
 Trolley-pole guide. J. P. Brennan. No. 927,708; July 13; Sp. p. 2095; Gaz. vol. 144; p. 364.  
 Trolley-pole guiding and finding device. J. J. Jagolin. No. 924,784; June 15; Sp. p. 3632; Gaz. vol. 143; p. 623.  
 Trolley-pole supporting and cushioning means. S. C. Cooper and W. M. Austin. No. 917,714; Apr. 6; Sp. p. 1462; Gaz. vol. 141; p. 256.  
 Trolley-pole wheel, Street-car. S. Bryan. No. 913,615; Feb. 23; Sp. p. 5369; Gaz. vol. 139; p. 949.  
 Trolley-replacer. W. M. Austin and S. C. Cooper. No. 932,426; Aug. 31; Sp. p. 5907; Gaz. vol. 145; p. 1030.  
 Trolley-replacer, Electrical. H. L. Sparks. No. 911,847; Feb. 9; Sp. p. 1605; Gaz. vol. 139; p. 298.  
 Trolley-retriever. N. W. Chamberlin and L. V. Moulton. No. 908,547; Jan. 5; Sp. p. 241; Gaz. vol. 138; p. 41.  
 Trolley-retriever. T. R. Gabel and A. L. Earett. No. 913,122; Feb. 23; Sp. p. 4328; Gaz. vol. 139; p. 783.  
 Trolley-retriever. M. D. Self. No. 930,698; Aug. 10; Sp. p. 2203; Gaz. vol. 145; p. 384.  
 Trolley-retriever. C. Palm. No. 941,944; Nov. 30; Sp. p. 7673; Gaz. vol. 148; p. 1292.  
 Trolley, Roller-bearing. W. H. Sheasby. No. 913,240; Feb. 23; Sp. p. 4581; Gaz. vol. 139; p. 822.  
 Trolley safety device. H. Nannenborn. No. 913,542; Feb. 23; Sp. p. 5184; Gaz. vol. 139; p. 924.  
 Trolley, Self-restoring. J. T. Andrew. No. 912,055; Feb. 9; Sp. p. 2126; Gaz. vol. 139; p. 366.  
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 Trolley-signal circuit-controller. A. Bevan. No. 911,698; Feb. 9; Sp. p. 1346; Gaz. vol. 139; p. 251.  
 Trolley-stand. E. W. Stull. No. 923,601; June 1; Sp. p. 1103; Gaz. vol. 143; p. 168.  
 Trolley stand or base. C. J. Geterman. No. 912,556; Feb. 16; Sp. p. 3175; Gaz. vol. 139; p. 569.  
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 Trolley-switch. J. J. Ruddick. No. 915,700; Mar. 16; Sp. p. 4229; Gaz. vol. 140; p. 629.  
 Trolley-switch. C. P. Nachod. No. 922,024; May 18; Sp. p. 3985; Gaz. vol. 142; p. 697.  
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 Trolley switch-plate. E. Bell. No. 928,839; July 20; Sp. p. 4419; Gaz. vol. 144; p. 770.  
 Trolley switch-plate. E. Heydon. No. 935,304; Sept. 28; Sp. p. 4680; Gaz. vol. 146; p. 831.  
 Trolley-wheel. L. J. Tetlow. No. 910,433; Jan. 19; Sp. p. 4092; Gaz. vol. 138; p. 733.  
 Trolley-wheel. I. O. Stant. No. 912,199; Feb. 9; Sp. p. 2388; Gaz. vol. 139; p. 411.  
 Trolley-wheel. J. H. Giarrh. No. 913,721; Mar. 2; Sp. p. 93; Gaz. vol. 140; p. 16.  
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 Trolley-wheel. E. E. Ecker. No. 930,275; Aug. 3; Sp. p. 1324; Gaz. vol. 145; p. 219.  
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 Trolley-wheel. A. M. Levering. No. 935,852; Oct. 5; Sp. p. 539; Gaz. vol. 147; p. 77.  
 Trolley-wheel. H. L. Baylies. No. 942,767; Dec. 7; Sp. p. 1520; Gaz. vol. 149; p. 249.  
 Trolley wheel and harp. F. L. Eager. No. 936,100; Oct. 5; Sp. p. 1054; Gaz. vol. 147; p. 160.  
 Trolley-wheel bearing. A. C. Sloan. No. 919,968; Apr. 27; Sp. p. 6426; Gaz. vol. 141; p. 1098.  
 Trolley-wheel harp. W. M. Caswell. No. 920,269; May 4; Sp. p. 393; Gaz. vol. 142; p. 59.  
 Trolley-wheel holder. J. Barry. No. 930,336; Aug. 10; Sp. p. 1442; Gaz. vol. 145; p. 263.  
 Trolley-wire clamping-ear. R. L. Hoffman. No. 917,069; Apr. 6; Sp. p. 213; Gaz. vol. 141; p. 40.  
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 Trolley-wire connection. G. S. Pannebaker. No. 913,155; Feb. 23; Sp. p. 4394; Gaz. vol. 139; p. 794.  
 Trolley-wire coupling. J. W. Kline. No. 937,075; Oct. 19; Sp. p. 3060; Gaz. vol. 147; p. 538.  
 Trolley-wire hanger. H. Schütte. No. 909,691; Jan. 12; Sp. p. 2535; Gaz. vol. 138; p. 450.  
 Trolley-wire hanger. J. Bryan and H. Etheridge. No. 920,262; May 4; Sp. p. 364; Gaz. vol. 142; p. 57.  
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 Trolley-wire hanger. R. B. Heimbecker and S. R. M. Orum. No. 931,301; Aug. 17; Sp. p. 3564; Gaz. vol. 145; p. 615.  
 Trolley-wire hanger. C. A. Kraynik. No. 931,771; Aug. 24; Sp. p. 4555; Gaz. vol. 145; p. 790.  
 Trolley-wire hanger, Insulating. L. W. Moran. No. 913,419; Feb. 23; Sp. p. 4936; Gaz. vol. 139; p. 883.  
 Trolley-wire support. C. G. Ette. No. 909,993; Jan. 19; Sp. p. 3151; Gaz. vol. 138; p. 582.  
 Trolley-wire support. J. W. Porter. No. 919,763; Apr. 27; Sp. p. 5991; Gaz. vol. 141; p. 1030.  
 Trolley-wire support. R. O. Couch. No. 935,895; Oct. 5; Sp. p. 632; Gaz. vol. 147; p. 92.  
 Trolley-wire support or hanger. C. G. Ette. No. 909,569; Jan. 12; Sp. p. 2297; Gaz. vol. 138; p. 407.  
 Trolley-wire suspender. J. Mayer. No. 918,761; Apr. 20; Sp. p. 3741; Gaz. vol. 141; p. 664.  
 Trolley-wire suspending device. W. A. McCallum. No. 934,562; Sept. 21; Sp. p. 3198; Gaz. vol. 146; p. 557.  
 Trolley-wire switch. H. O. Shissler. No. 928,157; July 13; Sp. p. 2991; Gaz. vol. 144; p. 511.  
 Trolley-wire switch mechanism. F. M. Zimmerman. No. 927,917; July 13; Sp. p. 2544; Gaz. vol. 144; p. 433.  
 Trolley-wire turnbuckle. H. S. Olsson. No. 913,547; Feb. 23; Sp. p. 5200; Gaz. vol. 139; p. 926.  
 Trolley-wire, Under-grooved. L. Steinberger. No. 917,500; Apr. 6; Sp. p. 1063; Gaz. vol. 141; p. 186.  
 Trolling-hook. A. J. Krantz and G. E. Smith. No. 932,477; Aug. 31; Sp. p. 6025; Gaz. vol. 145; p. 1045.  
 Trombone. F. Holton. No. 932,704; Aug. 31; Sp. p. 6516; Gaz. vol. 145; p. 1123.  
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 Trough. H. G. Thomas. No. 916,222; Mar. 23; Sp. p. 5226; Gaz. vol. 140; p. 923.  
 Trough. F. O. Nelson. No. 922,317; May 18; Sp. p. 4551; Gaz. vol. 142; p. 791.  
 Trough. J. S. and J. B. Weaver. No. 927,197; July 6; Sp. p. 1032; Gaz. vol. 144; p. 167.  
 Trough and glass support for glazed structures, Combined. J. A. Olsson. No. 931,638; Aug. 17; Sp. p. 4208; Gaz. vol. 145; p. 722.  
 Trough rack, Feeding-. W. A. McCollough. No. 933,384; Sept. 7; Sp. p. 801; Gaz. vol. 146; p. 124.  
 Trough, Watering-. A. Moore. No. 910,565; Jan. 26; Sp. p. 4380; Gaz. vol. 138; p. 803.  
 Trousers. J. B. Morton. No. 916,577; Mar. 30; Sp. p. 5949; Gaz. vol. 140; p. 1067.  
 Trousers. F. H. Sprague. No. 918,924; Apr. 20; Sp. p. 4096; Gaz. vol. 141; p. 718.  
 Trousers. F. H. Sprague. No. 937,883; Oct. 26; Sp. p. 4763; Gaz. vol. 147; p. 823.  
 Trousers. F. H. Sprague. No. 938,347; Oct. 26; Sp. p. 5762; Gaz. vol. 147; p. 980.  
 Trousers-clasp. A. L. London. No. 924,802; June 15; Sp. p. 3672; Gaz. vol. 143; p. 629.  
 Trousers, Combination-. W. H. Farley. No. 923,345; June 1; Sp. p. 545; Gaz. vol. 143; p. 78.  
 Trousers-crease retainer. H. A. Neumann. No. 940,712; Nov. 23; Sp. p. 5027; Gaz. vol. 148; p. 859.  
 Trousers-expander. J. Sargh. No. 908,889; Jan. 5; Sp. p. 948; Gaz. vol. 138; p. 151.  
 Trousers-hanger. F. H. Deknatel. No. 936,096; Oct. 5; Sp. p. 1043; Gaz. vol. 147; p. 159.  
 Trousers hanger and press. C. L. Harper. No. 944,134; Dec. 21; Sp. p. 4521; Gaz. vol. 149; p. 776.  
 Trousers presser and stretcher. B. S. O'Brien and H. M. Wheat. No. 920,988; May 11; Sp. p. 1818; Gaz. vol. 142; p. 323.  
 Trousers-stretcher. E. N. Hallett. No. 939,831; Nov. 9; Sp. p. 3042; Gaz. vol. 148; p. 502.  
 Trousers stretcher and creaser. U. C. Roumillat and D. M. Caldwell. No. 912,492; Feb. 16; Sp. p. 3025; Gaz. vol. 139; p. 547.  
 Trousers stretcher and hanger. A. Holmes. No. 934,172; Sept. 14; Sp. p. 2459; Gaz. vol. 146; p. 404.  
 Trousers-support. J. V. Backlund. No. 942,126; Dec. 7; Sp. p. 214; Gaz. vol. 149; p. 32.  
 Trousers-support, Collapsible. N. Knuth. No. 917,314; Apr. 6; Sp. p. 736; Gaz. vol. 141; p. 126.  
 Trousers-supporter. A. C. Killius. No. 926,259; June 29; Sp. p. 6652; Gaz. vol. 143; p. 1174.  
 Trousers-supporter. S. Levin. No. 936,787; Oct. 12; Sp. p. 2483; Gaz. vol. 147; p. 414.  
 Trousers-supporter. A. Marschner. No. 937,453; Oct. 19; Sp. p. 3891; Gaz. vol. 147; p. 662.  
 Trousers-taking-off device. K. Vietor. No. 916,508; Mar. 30; Sp. p. 5824; Gaz. vol. 140; p. 1045.  
 Trowel. J. W. Denton. No. 922,676; May 25; Sp. p. 5309; Gaz. vol. 142; p. 938.  
 Trowel. P. Neerup. No. 938,070; Oct. 26; Sp. p. 5158; Gaz. vol. 147; p. 886.  
 Trowel-guard. C. R. Hozior. No. 926,567; June 29; Sp. p. 7212; Gaz. vol. 143; p. 1275.  
 Trowel, Plastering-. K. M. Sandvig. No. 936,171; Oct. 5; Sp. p. 1203; Gaz. vol. 147; p. 182.  
 Truck. H. J. White. No. 908,633; Jan. 5; Sp. p. 424; Gaz. vol. 138; p. 68.  
 Truck. H. E. Bown. No. 913,943; Mar. 2; Sp. p. 597; Gaz. vol. 140; p. 95.  
 Truck. J. F. King. No. 914,427; Mar. 9; Sp. p. 1642; Gaz. vol. 140; p. 281.  
 Truck. N. W. Aldous. No. 915,721; Mar. 23; Sp. p. 4283; Gaz. vol. 140; p. 763.  
 Truck. W. E. Kastendike. No. 916,324; Mar. 23; Sp. p. 5396; Gaz. vol. 140; p. 958.  
 Truck. F. P. Olds. No. 917,648; Apr. 6; Sp. p. 1336; Gaz. vol. 141; p. 235.  
 Truck. B. B. Bowers. No. 918,819; Apr. 20; Sp. p. 3867; Gaz. vol. 141; p. 682.  
 Truck. J. Schreiber. No. 920,496; May 4; Sp. p. 806; Gaz. vol. 142; p. 131.  
 Truck. A. Marvin. No. 920,770; May 4; Sp. p. 1363; Gaz. vol. 142; p. 221.  
 Truck. A. L. Clark. No. 921,798; May 18; Sp. p. 3512; Gaz. vol. 142; p. 623.  
 Truck. A. L. Clark. No. 921,799; May 18; Sp. p. 3512; Gaz. vol. 142; p. 623.  
 Truck. W. B. Lewis and J. R. Mansfield. No. 922,005; May 18; Sp. p. 3950; Gaz. vol. 142; p. 691.  
 Truck. U. Hebert. No. 923,171; June 1; Sp. p. 107; Gaz. vol. 143; p. 17.  
 Truck. R. A. Rowley. No. 925,388; June 15; Sp. p. 4809; Gaz. vol. 143; p. 821.  
 Truck. F. W. C. Bailey. No. 925,795; June 22; Sp. p. 5684; Gaz. vol. 143; p. 985.  
 Truck. H. C. Grant. No. 931,413; Aug. 17; Sp. p. 3793; Gaz. vol. 145; p. 654.  
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 Truck. M. M. Dickinson. No. 931,849; Aug. 24; Sp. p. 4705; Gaz. vol. 145; p. 815.  
 Truck. J. B. Brown. No. 935,139; Sept. 28; Sp. p. 4366; Gaz. vol. 146; p. 779.  
 Truck. J. H. Smith. No. 936,825; Oct. 12; Sp. p. 2551; Gaz. vol. 147; p. 426.  
 Truck. S. Craig. No. 938,301; Oct. 26; Sp. p. 5666; Gaz. vol. 147; p. 965.  
 Truck. J. F. Fierke. No. 939,406; Nov. 9; Sp. p. 2144; Gaz. vol. 148; p. 356.  
 Truck. S. H. Temple. No. 940,565; Nov. 16; Sp. p. 4712; Gaz. vol. 148; p. 784.  
 Truck. C. J. Ingard. No. 942,563; Dec. 7; Sp. p. 1117; Gaz. vol. 149; p. 181.  
 Truck. F. O. Butler. No. 944,663; Dec. 28; Sp. p. 5671; Gaz. vol. 149; p. 984.  
 Truck and gage wheel, Implement-. T. Wade, L. Erickson and F. Fusch. No. 911,788; Feb. 9; Sp. p. 1495; Gaz. vol. 139; p. 280.  
 Truck, Automobile-. H. L. Parrish. No. 924,820; June 15; Sp. p. 3706; Gaz. vol. 143; p. 635.  
 Truck, Baggage-. W. A. Allen and R. B. Reed. No. 917,985; Apr. 13; Sp. p. 2075; Gaz. vol. 141; p. 375.  
 Truck, Barrel-. G. H. Copeland. No. 920,826; May 4; Sp. p. 1483; Gaz. vol. 142; p. 240.  
 Truck, Barrel-. W. E. Rice. No. 926,283; June 29; Sp. p. 6704; Gaz. vol. 143; p. 1183.  
 Truck-bolster. J. J. Byers. No. 939,946; Nov. 9; Sp. p. 3290; Gaz. vol. 148; p. 542.  
 Truck-bolster and car-truck. J. J. Byers. No. 919,690; Apr. 27; Sp. p. 5867; Gaz. vol. 141; p. 1007.  
 Truck-bolster for railway-cars. H. Fries. No. 944,818; Dec. 28; Sp. p. 6016; Gaz. vol. 149; p. 1036.  
 Truck-brake. W. S. Adams. No. 914,101; Mar. 2; Sp. p. 961; Gaz. vol. 140; p. 151.  
 Truck-brake. C. Wiebke. No. 917,392; Apr. 6; Sp. p. 878; Gaz. vol. 141; p. 1025.  
 Truck-brake. J. S. McWhirter. No. 919,747; Apr. 27; Sp. p. 5966; Gaz. vol. 141; p. 1025.  
 Truck, Car-. S. F. Morrison. No. 917,343; Apr. 6; Sp. p. 791; Gaz. vol. 141; p. 135.  
 Truck, Car-. A. A. Kellogg. No. 918,061; Apr. 13; Sp. p. 2242; Gaz. vol. 141; p. 403.  
 Truck, Car-. W. E. Woodard. No. 918,807; Apr. 20; Sp. p. 3834; Gaz. vol. 141; p. 678.  
 Truck, Car-. W. E. Woodard. No. 918,808; Apr. 20; Sp. p. 3836; Gaz. vol. 141; p. 678.

*Alphabetical list of inventions—Continued.*

- Truck, Car.- W. E. Woodard. No. 918,809; Apr. 20; Sp. p. 3837; Gaz. vol. 141; p. 678.  
 Truck, Car.- A. E. Batchelder. No. 919,305; Apr. 27; Sp. p. 5042; Gaz. vol. 141; p. 875.  
 Truck, Car.- E. Frouty. No. 921,455; May 11; Sp. p. 2803; Gaz. vol. 142; p. 481.  
 Truck, Car.- J. Timms. No. 921,636; May 11; Sp. p. 3174; Gaz. vol. 142; p. 543.  
 Truck, Car.- C. S. Shallenberger. No. 922,966; May 25; Sp. p. 5922; Gaz. vol. 142; p. 1032.  
 Truck, Car.- C. S. Shallenberger. No. 922,967; May 25; Sp. p. 5923; Gaz. vol. 142; p. 1032.  
 Truck, Car.- G. G. Floyd. No. 924,653; June 15; Sp. p. 3355; Gaz. vol. 143; p. 578.  
 Truck, Car.- W. S. Adams. No. 926,838; July 6; Sp. p. 275; Gaz. vol. 144; p. 44.  
 Truck, Car.- O. Hochberg. No. 926,984; July 6; Sp. p. 571; Gaz. vol. 144; p. 94.  
 Truck, Car.- F. Gebhardt. No. 927,962; July 13; Sp. p. 2634; Gaz. vol. 144; p. 448.  
 Truck, Car.- E. B. Allen. No. 929,267; July 27; Sp. p. 5311; Gaz. vol. 144; p. 939.  
 Truck, Car.- A. J. McCauley. No. 930,215; Aug. 3; Sp. p. 1220; Gaz. vol. 145; p. 201.  
 Truck, Car.- J. C. Barber. No. 933,223; Sept. 7; Sp. p. 439; Gaz. vol. 146; p. 67.  
 Truck, Car.- J. C. Barber. No. 933,224; Sept. 7; Sp. p. 440; Gaz. vol. 146; p. 68.  
 Truck, Car.- H. F. Pope. No. 933,579; Sept. 7; Sp. p. 1263; Gaz. vol. 146; p. 136.  
 Truck, Car.- W. E. Woodard. No. 934,955; Sept. 21; Sp. p. 3978; Gaz. vol. 146; p. 691.  
 Truck, Car.- J. C. Barber. No. 935,951; Oct. 5; Sp. p. 745; Gaz. vol. 147; p. 111.  
 Truck, Car.- C. S. Shallenberger. No. 939,870; Nov. 9; Sp. p. 3118; Gaz. vol. 148; p. 515.  
 Truck, Car.- E. A. Curtis. No. 940,133; Nov. 16; Sp. p. 3740; Gaz. vol. 148; p. 637.  
 Truck, Car.- W. H. Sont. No. 940,901; Nov. 23; Sp. p. 5435; Gaz. vol. 148; p. 921.  
 Truck, Car.- W. Wodzniski. No. 941,293; Nov. 23; Sp. p. 6288; Gaz. vol. 148; p. 1052.  
 Truck, Car.- C. B. Goodspeed. No. 941,515; Nov. 30; Sp. p. 6773; Gaz. vol. 148; p. 1147.  
 Truck, Car.- J. C. Barber. No. 942,043; Dec. 7; Sp. p. 7; Gaz. vol. 149; p. 4.  
 Truck, Car.- J. C. Barber. No. 942,702; Dec. 7; Sp. p. 1385; Gaz. vol. 149; p. 227.  
 Truck, Car.- R. J. Edwards. No. 943,666; Dec. 21; Sp. p. 3542; Gaz. vol. 149; p. 617.  
 Truck, Car.- J. Whitridge and C. E. Goodspeed. No. 943,853; Dec. 21; Sp. p. 3913; Gaz. vol. 149; p. 681.  
 Truck, Car.- A. J. McCauley. No. 944,202; Dec. 21; Sp. p. 4649; Gaz. vol. 149; p. 795.  
 Truck, Car.- C. D. Young. No. 944,587; Dec. 28; Sp. p. 5527; Gaz. vol. 149; p. 958.  
 Truck, Car.- T. W. Remmers. No. 944,820; Dec. 28; Sp. p. 6022; Gaz. vol. 149; p. 1036.  
 Truck, Casket.- O. H. Lannert. No. 915,032; Mar. 9; Sp. p. 2825; Gaz. vol. 140; p. 478.  
 Truck construction.- E. B. Daley. No. 927,497; July 13; Sp. p. 1627; Gaz. vol. 144; p. 292.  
 Truck dynamo-drive, Car.- E. R. Ford. No. 909,573; Jan. 12; Sp. p. 2304; Gaz. vol. 138; p. 408.  
 Truck, Elevating.- W. H. Cadwell. No. 924,143; June 8; Sp. p. 2269; Gaz. vol. 143; p. 375.  
 Truck-elevator, Inclined.- J. W. Reno. No. 942,352; Dec. 7; Sp. p. 680; Gaz. vol. 149; p. 109.  
 Truck end-casting construction, Car.- O. S. Pulliam. No. 909,021; Jan. 5; Sp. p. 1208; Gaz. vol. 138; p. 193.  
 Truck, Fireman's.- C. Holst. No. 911,981; Feb. 9; Sp. p. 1957; Gaz. vol. 139; p. 343.  
 Truck, Fodder-binding.- W. A. Forbes. No. 925,470; June 22; Sp. p. 4982; Gaz. vol. 143; p. 879.  
 Truck, Foldable.- C. H. Farland and A. Swanson. No. 920,553; May 4; Sp. p. 934; Gaz. vol. 142; p. 151.  
 Truck for cars, Swing-motion.- C. D. Young. No. 944,165; Dec. 21; Sp. p. 4584; Gaz. vol. 149; p. 786.  
 Truck for harrows.- W. H. Farlin. No. 919,755; Apr. 27; Sp. p. 5980; Gaz. vol. 141; p. 1028.  
 Truck for harvesters and other machines, Short-turning two-wheeled tongue.- W. M. Wadleigh. No. 919,404; Apr. 27; Sp. p. 5240; Gaz. vol. 141; p. 908.  
 Truck for harvesters and other machines, Tongue.- W. M. Wadleigh. No. 931,902; Aug. 24; Sp. p. 4817; Gaz. vol. 145; p. 831.  
 Truck for harvesting-machines.- J. Dretsch. No. 920,117; May 4; Sp. p. 62; Gaz. vol. 142; p. 7.  
 Truck for locomotives, Forward.- W. L. Austin. No. 940,494; Nov. 16; Sp. p. 4552; Gaz. vol. 148; p. 761.  
 Truck-frame.- A. L. Hastings. No. 936,626; Oct. 12; Sp. p. 2176; Gaz. vol. 147; p. 360.  
 Truck-frame, Car.- C. B. Goodspeed. No. 929,300; July 27; Sp. p. 5404; Gaz. vol. 144; p. 951.  
 Truck-frame, Reinforced.- L. G. Woods. No. 913,602; Feb. 23; Sp. p. 5332; Gaz. vol. 139; p. 944.  
 Truck-frame, Safety.- F. B. Ebert. No. 918,521; Apr. 20; Sp. p. 3177; Gaz. vol. 141; p. 583.  
 Truck, Gasoline-motor.- A. Kabureck. No. 927,729; July 13; Sp. p. 2133; Gaz. vol. 144; p. 370.  
 Truck, Hand.- I. L. Davenport. No. 910,360; Jan. 19; Sp. p. 3940; Gaz. vol. 138; p. 709.  
 Truck, Hand.- G. D. Parker. (Reissue.) No. 12,948; Apr. 27; Sp. p. 6757; Gaz. vol. 141; p. 1144.  
 Truck, Hand.- A. W. Young. No. 924,523; June 8; Sp. p. 3058; Gaz. vol. 143; p. 501.  
 Truck, Hand.- B. Keyser and C. F. Ingold. No. 938,872; Nov. 2; Sp. p. 918; Gaz. vol. 148; p. 145.  
 Truck, Hand.- L. X. Truxler. No. 938,917; Nov. 2; Sp. p. 1027; Gaz. vol. 148; p. 163.  
 Truck, Hand.- A. B. Kerndl. No. 939,600; Nov. 9; Sp. p. 2563; Gaz. vol. 148; p. 421.  
 Truck, Hand.- G. D. Parker. No. 943,265; Dec. 14; Sp. p. 2649; Gaz. vol. 149; p. 449.  
 Truck, Incline.- C. E. M. Miller. No. 933,321; Sept. 7; Sp. p. 649; Gaz. vol. 146; p. 101.  
 Truck, Lateral-motion car.- E. C. Washburn. No. 913,333; Feb. 23; Sp. p. 4769; Gaz. vol. 139; p. 854.  
 Truck lateral-motion roller-bearing device, Car.- J. C. Barber. No. 937,752; Oct. 26; Sp. p. 4485; Gaz. vol. 147; p. 779.  
 Truck, Lifting.- A. A. Ake. No. 939,783; Nov. 9; Sp. p. 2947; Gaz. vol. 148; p. 485.  
 Truck, Loading.- T. S. Chesnutt. No. 911,111; Feb. 2; Sp. p. 169; Gaz. vol. 139; p. 32.  
 Truck, Locomotive-engine.- C. H. Howard. No. 916,556; Mar. 30; Sp. p. 5911; Gaz. vol. 140; p. 1060.  
 Truck, Locomotive-tender.- W. L. Austin. No. 913,609; Feb. 23; Sp. p. 5349; Gaz. vol. 139; p. 946.  
 Truck, Maximum-traction.- W. S. Adams. No. 919,803; Apr. 27; Sp. p. 6068; Gaz. vol. 141; p. 1044.  
 Truck, Mine-car.- W. W. Rosensteel. No. 944,280; Dec. 28; Sp. p. 4817; Gaz. vol. 149; p. 850.  
 Truck, Motor.- A. Christianson. No. 925,682; June 22; Sp. p. 5406; Gaz. vol. 143; p. 947.  
 Truck or carriage for use in ship-building.- B. Trickey and W. T. Cain. No. 934,949; Sept. 21; Sp. p. 3967; Gaz. vol. 146; p. 689.  
 Truck or wagon, Railway.- M. Lambert. No. 963,912; Jan. 19; Sp. p. 2989; Gaz. vol. 138; p. 554.  
 Truck pedestal, Car.- E. A. Curtis. No. 911,575; Feb. 9; Sp. p. 1076; Gaz. vol. 139; p. 210.  
 Truck, Piano.- S. Bilger. No. 933,616; Sept. 7; Sp. p. 1340; Gaz. vol. 146; p. 199.  
 Truck, Piano.- S. Bilger. No. 937,043; Oct. 19; Sp. p. 3000; Gaz. vol. 147; p. 527.  
 Truck, Power.- J. B. Heverling. No. 941,677; Nov. 30; Sp. p. 7094; Gaz. vol. 148; p. 1199.  
 Truck, Printer's form.- J. A. Mashek. No. 912,589; Feb. 16; Sp. p. 3239; Gaz. vol. 139; p. 581.  
 Truck provided with special ball-bearings.- C. Gentle. No. 912,463; Feb. 16; Sp. p. 2968; Gaz. vol. 139; p. 537.  
 Truck, Railway.- S. E. Hitt. No. 913,136; Feb. 23; Sp. p. 4359; Gaz. vol. 139; p. 788.  
 Truck, Railway.- H. H. Vaughan. No. 917,979; Apr. 13; Sp. p. 2062; Gaz. vol. 141; p. 373.  
 Truck, Railway.- A. M. Clark. No. 922,750; May 25; Sp. p. 5464; Gaz. vol. 142; p. 961.  
 Truck, Railway-car.- W. F. Richards. No. 919,770; Apr. 27; Sp. p. 6007; Gaz. vol. 141; p. 1032.  
 Truck, Railway-car.- G. G. Floyd. No. 924,652; June 15; Sp. p. 3353; Gaz. vol. 143; p. 578.  
 Truck, Railway-car.- G. G. Floyd. No. 924,976; June 15; Sp. p. 4041; Gaz. vol. 143; p. 688.  
 Truck, Railway-car.- C. F. Murray. No. 942,096; Dec. 7; Sp. p. 129; Gaz. vol. 149; p. 21.  
 Truck, Railway-car.- W. F. Richards. No. 943,707; Dec. 21; Sp. p. 3619; Gaz. vol. 149; p. 630.  
 Truck, Railway motor-car.- C. H. Howard. No. 926,189; June 29; Sp. p. 6513; Gaz. vol. 143; p. 1152.  
 Truck, Railway motor-car.- C. H. Howard. No. 928,976; July 27; Sp. p. 4701; Gaz. vol. 144; p. 843.  
 Truck, Rigger's.- J. Ross. No. 910,727; Jan. 26; Sp. p. 4692; Gaz. vol. 138; p. 853.  
 Truck, Rigger's.- J. Ross. No. 927,879; July 13; Sp. p. 2451; Gaz. vol. 144; p. 419.  
 Truck, Road.- G. Sprung. No. 933,794; Sept. 14; Sp. p. 1693; Gaz. vol. 146; p. 281.  
 Truck, Sanitary laundry.- E. H. Eshelman. No. 920,847; May 4; Sp. p. 1522; Gaz. vol. 142; p. 247.  
 Truck side frame, Car.- J. H. Baker. No. 919,677; Apr. 27; Sp. p. 5837; Gaz. vol. 141; p. 1002.  
 Truck side frame, Motor-car.- E. I. Dodds. No. 926,394; June 29; Sp. p. 6912; Gaz. vol. 143; p. 1217.  
 Truck side frames, Brake-hanger-pin construction for car.- G. G. Floyd. No. 940,865; Nov. 23; Sp. p. 5366; Gaz. vol. 148; p. 909.  
 Truck structure for garbage or ash cans.- M. T. Lyon. No. 944,197; Dec. 21; Sp. p. 4640; Gaz. vol. 149; p. 795.  
 Truck, Tongue.- J. A. Stone. No. 914,466; Mar. 9; Sp. p. 1712; Gaz. vol. 140; p. 294.  
 Truck, Tongue.- C. A. A. Rand. No. 921,161; May 11; Sp. p. 2167; Gaz. vol. 142; p. 381.  
 Truck, Tongue.- W. R. Exline. No. 921,817; May 18; Sp. p. 3548; Gaz. vol. 142; p. 630.  
 Truck, Traction.- R. Sylvester. No. 913,783; Mar. 2; Sp. p. 228; Gaz. vol. 140; p. 38.  
 Truck, Vehicle.- N. E. Wilcox. No. 935,874; Oct. 5; Sp. p. 595; Gaz. vol. 147; p. 85.  
 Truck wheel-tender, Car.- H. W. Bodendieck. No. 913,192; Feb. 23; Sp. p. 4478; Gaz. vol. 139; p. 806.  
 Trucks, Bag-holding attachment for.- F. A. Scheffer. No. 919,251; Apr. 20; Sp. p. 4896; Gaz. vol. 141; p. 822.  
 Trucks, Blocking device for.- P. E. Lattner and S. N. Robinson. No. 939,518; Nov. 9; Sp. p. 2369; Gaz. vol. 148; p. 393.  
 Trucks, Construction of car.- R. C. Wright and F. E. Stebbins. No. 944,119; Dec. 21; Sp. p. 4491; Gaz. vol. 149; p. 771.



*Alphabetical list of inventions—Continued.*

- Trucks, Propelling-gear for. G. A. Mickelson. No. 934,685; Sept. 21; Sp. p. 3450; Gaz. vol. 146; p. 601.
- Truing-gage. C. W. Waldrup and G. D. Pope. No. 913,331; Feb. 23; Sp. p. 4766; Gaz. vol. 139; p. 853.
- Trunk. W. Hossfeld. No. 916,709; Mar. 30; Sp. p. 6188; Gaz. vol. 140; p. 1108.
- Trunk. S. W. Bonsall. No. 923,807; June 8; Sp. p. 1616; Gaz. vol. 143; p. 267.
- Trunk. I. S. Kallis and J. Berg. No. 926,195; June 29; Sp. p. 6525; Gaz. vol. 143; p. 1154.
- Trunk. J. Finzler. No. 928,743; July 20; Sp. p. 4239; Gaz. vol. 144; p. 738.
- Trunk. S. W. Bonsall. No. 930,343; Aug. 10; Sp. p. 1452; Gaz. vol. 145; p. 266.
- Trunk. C. M. Howes. No. 930,757; Aug. 10; Sp. p. 2332; Gaz. vol. 145; p. 404.
- Trunk. W. E. McDermott. No. 935,221; Sept. 28; Sp. p. 4517; Gaz. vol. 146; p. 804.
- Trunk. W. T. Fuller. No. 941,446; Nov. 30; Sp. p. 6629; Gaz. vol. 148; p. 1123.
- Trunk and type-writer desk, Combination. M. R. Schultze. No. 917,161; Apr. 6; Sp. p. 409; Gaz. vol. 141; p. 71.
- Trunk and wardrobe, Convertible. S. W. Bonsall. No. 944,593; Dec. 28; Sp. p. 5538; Gaz. vol. 149; p. 960.
- Trunk border-piece, Traveling-. B. Marstaller. No. 909,630; Jan. 12; Sp. p. 2419; Gaz. vol. 138; p. 428.
- Trunk, &c., catch-lock. D. W. Eggleston. No. 918,300; Apr. 13; Sp. p. 2719; Gaz. vol. 141; p. 482.
- Trunk, Cylindrical. C. F. Hudnall. No. 933,758; Sept. 14; Sp. p. 1635; Gaz. vol. 146; p. 269.
- Trunk-fastener. R. C. Rangnow. No. 919,077; Apr. 20; Sp. p. 4383; Gaz. vol. 141; p. 766.
- Trunk-handle. C. F. Knapp. No. 944,366; Dec. 28; Sp. p. 5003; Gaz. vol. 149; p. 881.
- Trunk-harness. A. D. Williams. No. 941,969; Nov. 30; Sp. p. 7726; Gaz. vol. 148; p. 1301.
- Trunk-leg, Folding. R. C. Bain. No. 940,421; Nov. 16; Sp. p. 4406; Gaz. vol. 148; p. 737.
- Trunk-lock. W. H. Clay. No. 917,250; Apr. 6; Sp. p. 599; Gaz. vol. 141; p. 103.
- Trunk-lock. H. N. Drucker. No. 918,662; Apr. 20; Sp. p. 3537; Gaz. vol. 141; p. 630.
- Trunk-lock. H. W. Cottrell. No. 928,904; July 20; Sp. p. 4561; Gaz. vol. 144; p. 794.
- Trunk-lock. H. W. Cottrell. No. 928,905; July 20; Sp. p. 4563; Gaz. vol. 144; p. 794.
- Trunk or package binder. J. E. Embry. No. 925,763; June 22; Sp. p. 5613; Gaz. vol. 143; p. 974.
- Trunk or packing-box. T. W. Post. No. 937,545; Oct. 19; Sp. p. 4086; Gaz. vol. 147; p. 694.
- Trunk, Sample-. A. H. Teeple. No. 920,217; May 4; Sp. p. 254; Gaz. vol. 142; p. 40.
- Trunk-strap. C. E. Miles. No. 911,604; Feb. 9; Sp. p. 1136; Gaz. vol. 139; p. 219.
- Trunk-tray form. W. S. Gilson. No. 918,311; Apr. 13; Sp. p. 2739; Gaz. vol. 141; p. 486.
- Trunk-tray holder. O. Rangnow. No. 919,076; Apr. 20; Sp. p. 4382; Gaz. vol. 141; p. 765.
- Trunk-tray support. C. F. Rom. No. 937,866; Oct. 26; Sp. p. 4732; Gaz. vol. 147; p. 818.
- Trunk, Wardrobe-. G. H. Wheary. No. 939,575; Nov. 9; Sp. p. 2489; Gaz. vol. 148; p. 413.
- Trunk, Wardrobe-. O. Rangnow. No. 944,695; Dec. 28; Sp. p. 5742; Gaz. vol. 149; p. 994.
- Trunks, &c., Automatic tray-lifter for. C. A. Wells. No. 909,837; Jan. 12; Sp. p. 2316; Gaz. vol. 138; p. 496.
- Trunks, Device for packing hats in. B. Dickenson. No. 943,919; Dec. 21; Sp. p. 4064; Gaz. vol. 149; p. 704.
- Trunks, Skirt-supporting attachment for wardrobe-. A. M. Moorman. No. 943,154; Dec. 14; Sp. p. 2429; Gaz. vol. 149; p. 413.
- Trunking system, Intercommunicating. E. R. Corwin. No. 918,660; Apr. 20; Sp. p. 3521; Gaz. vol. 141; p. 629.
- Truss. C. A. Jensen. No. 908,998; Jan. 5; Sp. p. 1169; Gaz. vol. 138; p. 186.
- Truss. J. S. E. Freel. No. 909,077; Jan. 5; Sp. p. 1315; Gaz. vol. 138; p. 212.
- Truss. E. Mayer and E. Strahlmann. No. 909,435; Jan. 12; Sp. p. 2028; Gaz. vol. 138; p. 361.
- Truss. W. Lennox. No. 910,004; Jan. 19; Sp. p. 3170; Gaz. vol. 138; p. 586.
- Truss. R. R. McGregor. No. 910,303; Jan. 19; Sp. p. 3825; Gaz. vol. 138; p. 689.
- Truss. A. C. Cooke. No. 910,504; Jan. 26; Sp. p. 4255; Gaz. vol. 138; p. 781.
- Truss. T. J. Stevens. No. 920,683; May 4; Sp. p. 1208; Gaz. vol. 142; p. 194.
- Truss. C. Molz. No. 925,645; June 22; Sp. p. 5345; Gaz. vol. 143; p. 936.
- Truss. A. Wakeman. No. 932,074; Aug. 24; Sp. p. 5218; Gaz. vol. 145; p. 890.
- Truss. G. W. Bell. No. 934,130; Sept. 14; Sp. p. 2382; Gaz. vol. 146; p. 390.
- Truss. W. W. Clindinin. No. 935,777; Oct. 5; Sp. p. 353; Gaz. vol. 147; p. 53.
- Truss. T. H. Stanley. No. 940,622; Nov. 16; Sp. p. 4815; Gaz. vol. 148; p. 803.
- Truss. A. A. Klug. No. 943,685; Dec. 21; Sp. p. 3572; Gaz. vol. 149; p. 622.
- Truss and like surgical appliance. W. F. Offord. No. 917,113; Apr. 6; Sp. p. 303; Gaz. vol. 141; p. 55.
- Truss-frames and the like, Cushioning device for. J. S. E. Freel. No. 943,244; Dec. 14; Sp. p. 2607; Gaz. vol. 149; p. 442.
- Truss, Hernia-. G. Christodule. No. 923,625; June 1; Sp. p. 1149; Gaz. vol. 143; p. 176.
- Truss-pad. I. M. Pease. No. 943,843; Dec. 21. Sp. p. 3890; Gaz. vol. 149; p. 677.
- Truss-rod construction and adjusting device. H. J. Gerhardt and F. C. Stecker. No. 932,118; Aug. 24; Sp. p. 5306; Gaz. vol. 145; p. 904.
- Truss system for elevated structures, Transverse-. D. W. Pfautz and J. L. Luckenbach. No. 915,378; Mar. 16; Sp. p. 3548; Gaz. vol. 140; p. 619.
- Try-square, Self-marking. W. Muck. No. 911,898; Feb. 9; Sp. p. 1702; Gaz. vol. 139; p. 315.
- Tub; See Bath-tub; Washtub.
- Tub-carrier. F. E. Whitney. No. 927,309; July 6; Sp. p. 1234; Gaz. vol. 144; p. 203.
- Tube; See Blood-draining tube; Cloth-rolling tube; Collapsible tube; Drinking-tube; Inner tube; Lantern-tube; Mailing-tube; Speaking-tube; Strainer-tube; Tire air-tube; Torpedo-tube.
- Tube. P. J. Grouvelle, E. H. Arquebourg, and L. J. Joret. No. 910,192; Jan. 19; Sp. p. 3555; Gaz. vol. 138; p. 647.
- Tube. W. F. Murphy. No. 919,915; Apr. 27; Sp. p. 6336; Gaz. vol. 141; p. 1082.
- Tube. H. I. Van Nostrand. No. 941,745; Nov. 30; Sp. p. 7253; Gaz. vol. 148; p. 1223.
- Tube and bar mill conveyor. J. S. Worth and W. F. Harrison. No. 931,545; Aug. 17; Sp. p. 4031; Gaz. vol. 145; p. 695.
- Tube and box. G. H. Bartlett. No. 934,266; Sept. 14; Sp. p. 2631; Gaz. vol. 146; p. 436.
- Tube and rod cutting mechanism. R. Bartholomäus. No. 911,107; Feb. 2; Sp. p. 161; Gaz. vol. 139; p. 30.
- Tube apparatus Pneumatic-despatch-. C. F. Stoddard. No. 914,084; Mar. 2; Sp. p. 921; Gaz. vol. 140; p. 144.
- Tube-bender. I. S. Dement. No. 921,677; May 18; Sp. p. 3280; Gaz. vol. 142; p. 585.
- Tube-bending device. E. J. Butler. No. 916,530; Mar. 30; Sp. p. 5859; Gaz. vol. 140; p. 1051.
- Tube-blower. C. C. Grover. No. 925,334; June 15; Sp. p. 4709; Gaz. vol. 143; p. 804.
- Tube-cleaner. W. S. Elliott. No. 928,432; July 20; Sp. p. 3598; Gaz. vol. 144; p. 636.
- Tube-cleaner. G. C. Bemis. No. 944,008; Dec. 21; Sp. p. 4263; Gaz. vol. 149; p. 733.
- Tube-cleaner, Rotary. P. J. Darlington. No. 942,312; Dec. 7; Sp. p. 607; Gaz. vol. 149; p. 96.
- Tube-cleaning apparatus. J. G. Frerichs. No. 936,620; Oct. 12; Sp. p. 2161; Gaz. vol. 147; p. 357.
- Tube-cutter. O. R. Young. No. 936,263; Oct. 5; Sp. p. 1359; Gaz. vol. 147; p. 210.
- Tube-cutter, Roller. A. P. Kohler. No. 910,547; Jan. 26; Sp. p. 4332; Gaz. vol. 138; p. 795.
- Tube-cutters, Feed mechanism for. W. Cushing. No. 935,467; Sept. 28; Sp. p. 5000; Gaz. vol. 146; p. 883.
- Tube-cutting machine. A. Mill. No. 923,554; June 1; Sp. p. 978; Gaz. vol. 143; p. 151.
- Tube-drawing device. W. T. Adams. No. 931,551; Aug. 17; Sp. p. 4043; Gaz. vol. 145; p. 697.
- Tube-drying apparatus. J. R. Harbeck. No. 913,285; Feb. 23; Sp. p. 4663; Gaz. vol. 139; p. 836.
- Tube-expander. G. Wiedeke, Sr. No. 930,820; Aug. 10; Sp. p. 2459; Gaz. vol. 145; p. 426.
- Tube-expander. G. Wiedeke, Sr. No. 930,821; Aug. 10; Sp. p. 2460; Gaz. vol. 145; p. 426.
- Tube-expander. W. J. Doerfler. No. 934,800; Sept. 21; Sp. p. 3676; Gaz. vol. 146; p. 638.
- Tube filling and tamping machine. T. A. Edison. No. 936,433; Oct. 12; Sp. p. 1769; Gaz. vol. 147; p. 294.
- Tube-flange. J. R. Tanner. No. 918,926; Apr. 20; Sp. p. 4099; Gaz. vol. 141; p. 719.
- Tube-forming machine. L. C. Smith. No. 922,536; May 25; Sp. p. 5028; Gaz. vol. 142; p. 893.
- Tube-forming machine. E. J. Steele and T. H. C. Hansen. No. 943,902; Dec. 21; Sp. p. 4024; Gaz. vol. 149; p. 697.
- Tube-joint. G. Politz. No. 911,156; Feb. 2; Sp. p. 266; Gaz. vol. 139; p. 46.
- Tube-machine. A. Mill. No. 923,552; June 1; Sp. p. 965; Gaz. vol. 143; p. 150.
- Tube-making machine. M. E. Curtis. No. 912,292; Feb. 16; Sp. p. 2615; Gaz. vol. 139; p. 481.
- Tube-making machine. G. A. Lutz. No. 931,134; Aug. 17; Sp. p. 3180; Gaz. vol. 145; p. 556.
- Tube-making machine. G. A. Lutz. No. 934,683; Sept. 21; Sp. p. 3447; Gaz. vol. 146; p. 600.
- Tube, Milk-. F. B. Shafer. No. 915,313; Mar. 16; Sp. p. 3420; Gaz. vol. 140; p. 597.
- Tube-mill. H. W. Hardinge. No. 909,292; Jan. 12; Sp. p. 1755; Gaz. vol. 138; p. 316.
- Tube-mill. G. S. Emerick. No. 927,516; July 13; Sp. p. 1676; Gaz. vol. 144; p. 299.
- Tube-mill, &c. P. T. Lindhard. No. 939,044; Nov. 2; Sp. p. 1279; Gaz. vol. 148; p. 206.
- Tube-mill cement-feeder. A. E. Sparrow. No. 938,176; Oct. 26; Sp. p. 5398; Gaz. vol. 147; p. 922.
- Tube-mill for cement, stones, &c. I. A. Knecht. No. 927,054; July 6; Sp. p. 745; Gaz. vol. 144; p. 118.
- Tube-mill lining. G. H. Rotherham. No. 939,637; Nov. 9; Sp. p. 2637; Gaz. vol. 148; p. 435.
- Tube-mill tube-trough. J. S. Worth. No. 931,544; Aug. 17; Sp. p. 4028; Gaz. vol. 145; p. 694.
- Tube-molding machine. F. Massillon. No. 918,880; Apr. 20; Sp. p. 4000; Gaz. vol. 141; p. 702.

*Alphabetical list of inventions—Continued.*

- Tube-repairing device. J. M. Galloway and A. W. Trevor. No. 925,323; June 15; Sp. p. 4694; Gaz. vol. 143; p. 801.
- Tube-rolling apparatus. R. C. Stiefel and J. H. Nicholson. No. 923,726; June 1; Sp. p. 1342; Gaz. vol. 143; p. 209.
- Tube-rolling machine. A. Mill. No. 923,553; June 1; Sp. p. 972; Gaz. vol. 143; p. 150.
- Tube-sections and similar parts, Machine for making. A. H. Nilson and M. Olson. No. 912,601; Feb. 16; Sp. p. 3261; Gaz. vol. 139; p. 585.
- Tube system, Pneumatic-despatch-. C. F. Stoddard. No. 914,083; Mar. 2; Sp. p. 920; Gaz. vol. 140; p. 144.
- Tube-welding apparatus. H. Dicke and E. Klinkmann. No. 939,591; Nov. 9; Sp. p. 2545; Gaz. vol. 148; p. 418.
- Tubes and applying keys thereto, Machine for closing collapsible. W. S. Morrison. No. 920,609; May 4; Sp. p. 1041; Gaz. vol. 142; p. 169.
- Tubes and for other uses, Machine for straightening. L. D. Davis. No. 927,716; July 13; Sp. p. 2111; Gaz. vol. 144; p. 366.
- Tubes, Apparatus for automatically perforating. C. Thibodeau. No. 924,203; June 8; Sp. p. 2430; Gaz. vol. 143; p. 396.
- Tubes, Apparatus for making spirally-wound. C. F. Jenkins. No. 921,842; May 18; Sp. p. 3623; Gaz. vol. 142; p. 638.
- Tubes, Apparatus for making spirally-wound. C. F. Jenkins. No. 941,255; Nov. 23; Sp. p. 6195; Gaz. vol. 148; p. 1039.
- Tubes, Apparatus for producing corrugated. A. Pogany and H. Lahmann. No. 918,469; Apr. 13; Sp. p. 3055; Gaz. vol. 141; p. 536.
- Tubes, bottles, &c., Closure for collapsible. E. B. Pike and L. Hayne. No. 928,692; July 20; Sp. p. 4140; Gaz. vol. 144; p. 721.
- Tubes, Formation of stacks of. O. Zimmermann. No. 935,723; Oct. 5; Sp. p. 213; Gaz. vol. 147; p. 34.
- Tubes, Forming metallic. L. D. Davis. No. 938,646; Nov. 2; Sp. p. 440; Gaz. vol. 148; p. 68.
- Tubes from metal strips, Machine for the manufacture of. N. Heid. No. 915,673; Mar. 16; Sp. p. 4179; Gaz. vol. 140; p. 720.
- Tubes, Making closed-end. L. E. Hooker. No. 934,174; Sept. 14; Sp. p. 2462; Gaz. vol. 146; p. 405.
- Tubes, Making spirally-wound. C. F. Jenkins. No. 916,162; Mar. 23; Sp. p. 5111; Gaz. vol. 140; p. 904.
- Tubes, Manufacture of. O. Briede. No. 914,332; Mar. 2; Sp. p. 1438; Gaz. vol. 140; p. 223.
- Tubes, Manufacture of. O. Briede. No. 914,333; Mar. 2; Sp. p. 1439; Gaz. vol. 140; p. 223.
- Tubes, Method of and apparatus for interiorly coating. E. James. No. 938,489; Nov. 2; Sp. p. 92; Gaz. vol. 148; p. 15.
- Tubes of grain-drills, Mechanism for raising and lowering. J. Stoland. No. 915,245; Mar. 16; Sp. p. 3293; Gaz. vol. 140; p. 575.
- Tubes or hollow bodies, Manufacture of. B. F. McTear. No. 920,168; May 4; Sp. p. 146; Gaz. vol. 142; p. 23.
- Tubes, Screw-cap for collapsible. F. McIntyre. No. 944,203; Dec. 21; Sp. p. 4650; Gaz. vol. 149; p. 797.
- Tubing. E. T. Greenfield. No. 919,001; Apr. 20; Sp. p. 4252; Gaz. vol. 141; p. 743.
- Tubing. E. T. Greenfield. No. 938,575; Nov. 2; Sp. p. 304; Gaz. vol. 148; p. 45.
- Tubing, Apparatus for making spiral. E. T. Greenfield. No. 939,244; Nov. 9; Sp. p. 1725; Gaz. vol. 148; p. 299.
- Tubing, Flexible metallic. B. E. Eldred. No. 925,317; June 15; Sp. p. 4682; Gaz. vol. 143; p. 799.
- Tubing, Sheet-metal. W. P. Lawrence. No. 939,039; Nov. 2; Sp. p. 1269; Gaz. vol. 148; p. 204.
- Tubing support, Flexible. H. A. Kretschmer. No. 923,662; June 1; Sp. p. 1219; Gaz. vol. 143; p. 188.
- Tubular or hollow bodies, Manufacturing reinforced. L. H. Rentzsch. No. 937,178; Oct. 19; Sp. p. 3285; Gaz. vol. 147; p. 572.
- Tubular structure. L. Atwood. No. 910,891; Jan. 26; Sp. p. 5026; Gaz. vol. 138; p. 905.
- Tubular structures, Reinforcing. H. H. Hilborn and C. E. Roehl. No. 909,299; Jan. 12; Sp. p. 1770; Gaz. vol. 138; p. 318.
- Tuberculosis, Preparing a preventive of. J. F. Rosenbach. No. 939,097; Nov. 2; Sp. p. 1374; Gaz. vol. 148; p. 224.
- Tuck marker and folder, Combined. W. R. Parsons. No. 920,081; Apr. 27; Sp. p. 6679; Gaz. vol. 141; p. 1135.
- Tuft. E. Koella. No. 923,537; June 1; Sp. p. 937; Gaz. vol. 143; p. 145.
- Tufting-machine. W. E. Buser. No. 911,376; Feb. 2; Sp. p. 689; Gaz. vol. 139; p. 118.
- Tufting-machine press. B. C. Poston. No. 917,657; Apr. 6; Sp. p. 1349; Gaz. vol. 141; p. 238.
- Tug and trace fastener. A. V. Cunningham, Sr. No. 910,359; Jan. 19; Sp. p. 3939; Gaz. vol. 138; p. 709.
- Tug attachment, Shaft-. A. Littman and W. J. Lackie. No. 941,326; Nov. 23; Sp. p. 6342; Gaz. vol. 148; p. 1061.
- Tug-fastener. L. C. Brady. No. 916,664; Mar. 30; Sp. p. 6106; Gaz. vol. 140; p. 1094.
- Tug or carrier, Thill. W. R. Noggle. No. 941,943; Nov. 30; Sp. p. 7672; Gaz. vol. 148; p. 1292.
- Tug, Shaft-. B. C. Sherman. No. 934,468; Sept. 21; Sp. p. 3023; Gaz. vol. 146; p. 527.
- Tug, Thill-. W. C. Smith. No. 920,679; May 4; Sp. p. 1203; Gaz. vol. 142; p. 193.
- Tumbler-case. E. L. Converse. No. 924,890; June 15; Sp. p. 3864; Gaz. vol. 143; p. 658.
- Tumbler-lock. L. F. Dahl. No. 913,622; Feb. 23; Sp. p. 5381; Gaz. vol. 139; p. 951.
- Tumbler lock, Pin-. R. Schoell. No. 917,365; Apr. 6; Sp. p. 831; Gaz. vol. 141; p. 142.
- Tumbler, Soda-. H. K. De Wolf. No. 924,969; June 15; Sp. p. 4030; Gaz. vol. 143; p. 686.
- Tumbler-washer. L. L. Rowe. No. 910,587; Jan. 26; Sp. p. 4439; Gaz. vol. 138; p. 809.
- Tumbler-washer. J. S. Nash. No. 917,887; Apr. 13; Sp. p. 1864; Gaz. vol. 141; p. 340.
- Tumbling apparatus. P. C. Patterson and J. J. Boax. No. 928,399; July 20; Sp. p. 3540; Gaz. vol. 144; p. 626.
- Tungstic anhydride, Purifying. E. P. Beckwith. No. 926,084; June 22; Sp. p. 6271; Gaz. vol. 143; p. 1080.
- Tuning-peg for stringed instruments. H. Haubner. No. 918,543; Apr. 20; Sp. p. 3232; Gaz. vol. 141; p. 589.
- Tunnel attachment. J. A. Horne. No. 936,628; Oct. 12; Sp. p. 2179; Gaz. vol. 147; p. 360.
- Tunnel attachment. J. A. Horne. No. 936,629; Oct. 12; Sp. p. 2180; Gaz. vol. 147; p. 360.
- Tunnel-boring device. R. H. Keays. No. 912,575; Feb. 16; Sp. p. 3216; Gaz. vol. 139; p. 577.
- Tunnel, Subaqueous. E. W. Moir. No. 938,265; Oct. 26; Sp. p. 5577; Gaz. vol. 147; p. 953.
- Tunnel-ventilating device. H. Constable. No. 918,510; Apr. 20; Sp. p. 3157; Gaz. vol. 141; p. 579.
- Tunnels and similar structures, Air and water tight joint for. A. Lennon. No. 935,376; Sept. 28; Sp. p. 4829; Gaz. vol. 146; p. 854.
- Tunnels and the like, Bulkhead for. G. W. Jackson. No. 940,323; Nov. 16; Sp. p. 4169; Gaz. vol. 148; p. 703.
- Tunnels, Form for lining. F. M. Talbot. No. 934,768; Sept. 21; Sp. p. 3601; Gaz. vol. 146; p. 628.
- Tunneling apparatus. H. Japp. No. 922,431; May 18; Sp. p. 4793; Gaz. vol. 142; p. 830.
- Tunneling-machine. C. A. Case. No. 910,500; Jan. 26; Sp. p. 4244; Gaz. vol. 138; p. 780.
- Tunneling-machine. E. F. Terry. No. 917,974; Apr. 13; Sp. p. 2046; Gaz. vol. 141; p. 371.
- Tunneling-machine, Rotary. C. A. Case. No. 914,636; Mar. 9; Sp. p. 2054; Gaz. vol. 140; p. 350.
- Turbine. R. K. Morcom and A. Jude. No. 909,103; Jan. 5; Sp. p. 1376; Gaz. vol. 138; p. 220.
- Turbine. W. H. Kelly and A. Tschinkel. No. 909,191; Jan. 12; Sp. p. 1573; Gaz. vol. 138; p. 283.
- Turbine. C. B. Culver and J. A. Heckard. No. 909,369; Jan. 12; Sp. p. 1901; Gaz. vol. 138; p. 340.
- Turbine. A. Peticore. No. 910,228; Jan. 19; Sp. p. 3639; Gaz. vol. 138; p. 661.
- Turbine. E. I. Braddock. No. 911,470; Feb. 2; Sp. p. 844; Gaz. vol. 139; p. 148.
- Turbine. R. H. Goldsborough. No. 911,492; Feb. 2; Sp. p. 880; Gaz. vol. 139; p. 156.
- Turbine. C. Roth. No. 911,616; Feb. 9; Sp. p. 1174; Gaz. vol. 139; p. 223.
- Turbine. B. Ljungström and E. A. Forsberg. No. 911,662; Feb. 9; Sp. p. 1276; Gaz. vol. 139; p. 239.
- Turbine. A. J. B. Lévé. No. 915,099; Mar. 16; Sp. p. 2978; Gaz. vol. 140; p. 527.
- Turbine. E. I. Braddock. No. 916,386; Mar. 23; Sp. p. 5513; Gaz. vol. 140; p. 979.
- Turbine. W. Fritz. No. 916,433; Mar. 30; Sp. p. 5624; Gaz. vol. 140; p. 1019.
- Turbine. J. L. Moore. No. 917,341; Apr. 6; Sp. p. 788; Gaz. vol. 141; p. 134.
- Turbine. C. Lemale. No. 919,895; Apr. 27; Sp. p. 6296; Gaz. vol. 141; p. 1075.
- Turbine. H. F. Fullagar. No. 920,127; May 4; Sp. p. 76; Gaz. vol. 142; p. 10.
- Turbine. G. McIntosh. No. 920,489; May 4; Sp. p. 791; Gaz. vol. 142; p. 128.
- Turbine. J. A. Groshon. No. 921,238; May 11; Sp. p. 2339; Gaz. vol. 142; p. 410.
- Turbine. C. E. Etnier. No. 921,529; May 11; Sp. p. 2943; Gaz. vol. 142; p. 505.
- Turbine. H. Lentz. No. 921,647; May 11; Sp. p. 3200; Gaz. vol. 142; p. 547.
- Turbine. W. F. Uhl. No. 922,216; May 18; Sp. p. 4370; Gaz. vol. 142; p. 760.
- Turbine. J. W. Smith. No. 923,451; June 1; Sp. p. 766; Gaz. vol. 143; p. 113.
- Turbine. G. H. Cook. No. 923,947; June 8; Sp. p. 1869; Gaz. vol. 143; p. 312.
- Turbine. W. L. R. Emmet. No. 924,546; June 8; Sp. p. 3122; Gaz. vol. 143; p. 509.
- Turbine. E. I. Braddock. No. 925,556; June 22; Sp. p. 5146; Gaz. vol. 143; p. 907.
- Turbine. E. I. Braddock. No. 926,803; July 6; Sp. p. 196; Gaz. vol. 144; p. 33.
- Turbine. J. H. Bolitho. No. 927,023; July 6; Sp. p. 662; Gaz. vol. 144; p. 108.
- Turbine. J. Hornby. No. 927,534; July 13; Sp. p. 1707; Gaz. vol. 144; p. 305.
- Turbine. J. Hornby. No. 927,535; July 13; Sp. p. 1710; Gaz. vol. 144; p. 305.
- Turbine. J. Hornby. No. 927,536; July 13; Sp. p. 1712; Gaz. vol. 144; p. 305.
- Turbine. D. Burnfield. No. 928,178; July 13; Sp. p. 3042; Gaz. vol. 144; p. 519.
- Turbine. S. T. Holly. No. 931,871; Aug. 24; Sp. p. 4749; Gaz. vol. 145; p. 822.
- Turbine. R. Henderson. No. 932,123; Aug. 24; Sp. p. 5316; Gaz. vol. 145; p. 906.
- Turbine. V. Peterson. No. 935,322; Sept. 28; Sp. p. 4720; Gaz. vol. 146; p. 837.
- Turbine. E. F. Raab. No. 935,403; Sept. 28; Sp. p. 4877; Gaz. vol. 146; p. 863.
- Turbine. O. D. H. Bentley. No. 935,956; Oct. 5; Sp. p. 758; Gaz. vol. 147; p. 113.
- Turbine. C. A. Kaiser. No. 939,514; Nov. 9; Sp. p. 2360; Gaz. vol. 148; p. 391.
- Turbine. J. H. Felthousen. No. 939,821; Nov. 9; Sp. p. 3022; Gaz. vol. 148; p. 498.
- Turbine. S. T. Holly. No. 942,829; Dec. 7; Sp. p. 1649; Gaz. vol. 149; p. 269.



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- Turbine. O. D. H. Bentley. No. 944,839; Dec. 28; Sp. p. 6055; Gaz. vol. 149; p. 1042.
- Turbine and internal-combustion motor-engine, Combined. J. Hutchings. No. 919,174; Apr. 20; Sp. p. 4561; Gaz. vol. 141; p. 797.
- Turbine and internal-combustion motor-engine, Combined. J. Hutchings. No. 935,512; Sept. 28; Sp. p. 5108; Gaz. vol. 146; p. 898.
- Turbine automatic brake, Elastic-fluid-. O. Junggren. No. 910,388; Jan. 19; Sp. p. 3995; Gaz. vol. 138; p. 717.
- Turbine-blade. F. Emden. No. 913,273; Feb. 23; Sp. p. 4643; Gaz. vol. 139; p. 833.
- Turbine-blade. H. S. Loud and J. Panter. No. 941,375; Nov. 30; Sp. p. 6461; Gaz. vol. 148; p. 1100.
- Turbine blade and vane. G. Westinghouse. No. 930,907; Aug. 10; Sp. p. 2649; Gaz. vol. 145; p. 454.
- Turbine-blade-fixing machine. S. Z. de Ferranti. No. 911,222; Feb. 2; Sp. p. 388; Gaz. vol. 139; p. 68.
- Turbine-blade-holding means. C. Gilson. No. 941,411; Nov. 30; Sp. p. 6565; Gaz. vol. 148; p. 1113.
- Turbine-blades, Device for fixing. J. Dahl. No. 930,735; Aug. 10; Sp. p. 2284; Gaz. vol. 145; p. 397.
- Turbine-blading. S. Z. de Ferranti. No. 916,400; Mar. 23; Sp. p. 5556; Gaz. vol. 140; p. 984.
- Turbine-blading. J. E. Snyder. No. 941,389; Nov. 30; Sp. p. 6497; Gaz. vol. 148; p. 1103.
- Turbine-blading. F. Hodgkinson. No. 943,347; Dec. 14; Sp. p. 2835; Gaz. vol. 149; p. 477.
- Turbine bucket, Elastic-fluid-. S. A. Moss. No. 910,408; Jan. 19; Sp. p. 4046; Gaz. vol. 138; p. 725.
- Turbine-buckets, Forming U-shaped. H. Keller. No. 930,383; Aug. 10; Sp. p. 1540; Gaz. vol. 145; p. 279.
- Turbine, Compound. G. Meyersberg. No. 941,794; Nov. 30; Sp. p. 7357; Gaz. vol. 148; p. 1240.
- Turbine-controller. W. A. Loudon. No. 941,426; Nov. 30; Sp. p. 6593; Gaz. vol. 148; p. 1117.
- Turbine-driven apparatus. R. H. Rice. No. 937,467; Oct. 19; Sp. p. 3921; Gaz. vol. 147; p. 667.
- Turbine-driven spinning, doubling, and twisting machine. S. Z. de Ferranti. No. 930,849; Aug. 10; Sp. p. 2514; Gaz. vol. 145; p. 435.
- Turbine, Elastic-fluid-. J. A. MacMurphy. No. 908,788; Jan. 5; Sp. p. 746; Gaz. vol. 138; p. 117.
- Turbine, Elastic-fluid-. E. J. Berg. No. 910,164; Jan. 19; Sp. p. 3479; Gaz. vol. 138; p. 637.
- Turbine, Elastic-fluid-. J. G. Callan. No. 910,170; Jan. 19; Sp. p. 3497; Gaz. vol. 138; p. 639.
- Turbine, Elastic-fluid-. G. Belluzzo. No. 910,266; Jan. 19; Sp. p. 3756; Gaz. vol. 138; p. 676.
- Turbine, Elastic-fluid-. O. Junggren. No. 910,472; Jan. 19; Sp. p. 4174; Gaz. vol. 138; p. 747.
- Turbine, Elastic-fluid-. C. W. Duke. No. 911,576; Feb. 9; Sp. p. 1079; Gaz. vol. 139; p. 211.
- Turbine, Elastic-fluid-. C. W. Duke. No. 911,577; Feb. 9; Sp. p. 1082; Gaz. vol. 139; p. 211.
- Turbine, Elastic-fluid-. A. R. Dodge. No. 912,090; Feb. 9; Sp. p. 2183; Gaz. vol. 139; p. 378.
- Turbine, Elastic-fluid-. C. G. Curtis. No. 917,419; Apr. 6; Sp. p. 923; Gaz. vol. 141; p. 160.
- Turbine, Elastic-fluid-. B. Ljungström. No. 919,196; Apr. 20; Sp. p. 4611; Gaz. vol. 141; p. 805.
- Turbine, Elastic-fluid-. J. S. Green. No. 919,853; Apr. 27; Sp. p. 6215; Gaz. vol. 141; p. 1060.
- Turbine, Elastic-fluid-. C. G. Curtis. No. 920,438; May 4; Sp. p. 707; Gaz. vol. 142; p. 112.
- Turbine, Elastic-fluid-. E. Thomson. No. 920,789; May 4; Sp. p. 1411; Gaz. vol. 142; p. 228.
- Turbine, Elastic-fluid-. E. Thomson. No. 920,790; May 4; Sp. p. 1414; Gaz. vol. 142; p. 228.
- Turbine, Elastic-fluid-. H. J. Hanzlik and R. E. Hellmer. No. 922,581; May 25; Sp. p. 5113; Gaz. vol. 142; p. 907.
- Turbine, Elastic-fluid-. C. G. Curtis. No. 923,146; June 1; Sp. p. 49; Gaz. vol. 143; p. 9.
- Turbine, Elastic-fluid-. C. Roth. No. 924,108; June 8; Sp. p. 2167; Gaz. vol. 143; p. 362.
- Turbine, Elastic-fluid-. W. L. R. Emmet. No. 924,898; June 15; Sp. p. 3875; Gaz. vol. 143; p. 661.
- Turbine, Elastic-fluid-. J. P. Nikonow. No. 925,218; June 15; Sp. p. 4515; Gaz. vol. 143; p. 770.
- Turbine, Elastic-fluid-. B. Ljungström. No. 926,814; July 6; Sp. p. 215; Gaz. vol. 144; p. 36.
- Turbine, Elastic-fluid-. H. L. Barton. No. 927,093; July 6; Sp. p. 834; Gaz. vol. 144; p. 133.
- Turbine, Elastic-fluid-. H. L. Barton. No. 927,445; July 6; Sp. p. 1502; Gaz. vol. 144; p. 249.
- Turbine, Elastic-fluid-. C. G. Curtis. No. 928,109; July 13; Sp. p. 2900; Gaz. vol. 144; p. 495.
- Turbine, Elastic-fluid-. G. Westinghouse. No. 930,908; Aug. 10; Sp. p. 2650; Gaz. vol. 145; p. 454.
- Turbine, Elastic-fluid-. B. Ljungström. No. 931,323; Aug. 17; Sp. p. 3609; Gaz. vol. 145; p. 622.
- Turbine, Elastic-fluid-. G. Belluzzo. No. 931,966; Aug. 24; Sp. p. 5023; Gaz. vol. 145; p. 860.
- Turbine, Elastic-fluid-. W. J. Cartwright. No. 933,693; Sept. 7; Sp. p. 1493; Gaz. vol. 146; p. 225.
- Turbine, Elastic-fluid-. F. Hodgkinson. No. 934,915; Sept. 21; Sp. p. 3893; Gaz. vol. 146; p. 676.
- Turbine, Elastic-fluid-. G. Westinghouse. No. 935,286; Sept. 28; Sp. p. 4646; Gaz. vol. 146; p. 825.
- Turbine, Elastic-fluid-. G. Westinghouse. No. 935,567; Sept. 28; Sp. p. 5232; Gaz. vol. 146; p. 918.
- Turbine, Elastic-fluid-. G. Westinghouse. No. 935,568; Sept. 28; Sp. p. 5234; Gaz. vol. 146; p. 918.
- Turbine, Elastic-fluid-. G. Westinghouse. No. 935,569; Sept. 28; Sp. p. 5236; Gaz. vol. 146; p. 919.
- Turbine, Elastic-fluid-. F. Hodgkinson. No. 937,996; Oct. 26; Sp. p. 4999; Gaz. vol. 147; p. 861.
- Turbine, Elastic-fluid-. S. Z. de Ferranti. No. 938,309; Oct. 26; Sp. p. 5685; Gaz. vol. 147; p. 968.
- Turbine, Elastic-fluid-. J. S. Green. No. 940,802; Nov. 23; Sp. p. 5241; Gaz. vol. 148; p. 889.
- Turbine, Elastic-fluid-. P. J. Hedlund. No. 940,874; Nov. 23; Sp. p. 5381; Gaz. vol. 148; p. 912.
- Turbine, Elastic-fluid-. G. Westinghouse. No. 941,395; Nov. 30; Sp. p. 6518; Gaz. vol. 148; p. 1107.
- Turbine, Elastic-fluid-. R. N. Ehrhart. No. 941,409; Nov. 30; Sp. p. 6561; Gaz. vol. 148; p. 1112.
- Turbine, Elastic-fluid-. F. Hodgkinson. No. 943,349; Dec. 14; Sp. p. 2839; Gaz. vol. 149; p. 477.
- Turbine, Elastic-fluid-. W. J. A. London. No. 943,359; Dec. 14; Sp. p. 2857; Gaz. vol. 149; p. 481.
- Turbine, Elastic-fluid-. C. Roth. No. 943,465; Dec. 14; Sp. p. 3073; Gaz. vol. 149; p. 517.
- Turbine, Enforced-flow elastic-fluid-. W. L. R. Emmet. No. 932,849; Aug. 31; Sp. p. 6810; Gaz. vol. 145; p. 1169.
- Turbine-engine. C. W. Weiss. No. 926,157; June 29; Sp. p. 6431; Gaz. vol. 143; p. 1140.
- Turbine-engine. C. A. Sturtevant. No. 930,503; Aug. 10; Sp. p. 1772; Gaz. vol. 145; p. 319.
- Turbine-engine, Gas. A. W. H. Griep. No. 910,665; Jan. 26; Sp. p. 4586; Gaz. vol. 138; p. 834.
- Turbine, Explosion-. P. O. Poulson. No. 914,072; Mar. 2; Sp. p. 894; Gaz. vol. 140; p. 140.
- Turbine, Fluid-. F. E. Wolf. No. 914,625; Mar. 9; Sp. p. 2035; Gaz. vol. 140; p. 346.
- Turbine, Fluid-pressure. O. Richter. No. 909,226; Jan. 12; Sp. p. 1631; Gaz. vol. 138; p. 293.
- Turbine, Fluid-pressure. G. Westinghouse. No. 935,438; Sept. 28; Sp. p. 4948; Gaz. vol. 146; p. 874.
- Turbine for driving boiler-tube cleaners. H. F. Weinland and H. G. and G. H. Ainge. No. 936,498; Oct. 12; Sp. p. 1908; Gaz. vol. 147; p. 315.
- Turbine, Gas-. J. Illy. No. 933,906; Sept. 14; Sp. p. 1920; Gaz. vol. 146; p. 318.
- Turbine governing apparatus, Steam-. H. F. Fullagar. No. 913,003; Feb. 23; Sp. p. 4094; Gaz. vol. 139; p. 743.
- Turbine governing mechanism, Elastic-fluid-. R. N. Ehrhart. No. 934,432; Sept. 21; Sp. p. 2954; Gaz. vol. 146; p. 515.
- Turbine governor, Elastic-. J. Wilkinson. No. 915,716; Mar. 16; Sp. p. 4254; Gaz. vol. 140; p. 733.
- Turbine, Hydraulic. E. F. Cassel. No. 921,950; May 18; Sp. p. 3836; Gaz. vol. 142; p. 971.
- Turbine, Impulse-. M. J. Scanlon. No. 909,684; Jan. 12; Sp. p. 2516; Gaz. vol. 138; p. 447.
- Turbine, Impulse-reaction. A. Wilstam. No. 925,065; June 15; Sp. p. 4212; Gaz. vol. 143; p. 717.
- Turbine, Internal-combustion. P. Krause. No. 918,679; Apr. 20; Sp. p. 3572; Gaz. vol. 141; p. 635.
- Turbine, Internal-combustion. M. St. Clair. No. 933,353; Sept. 7; Sp. p. 719; Gaz. vol. 146; p. 112.
- Turbine, Internal-combustion gas-. G. E. Dod. No. 939,229; Nov. 9; Sp. p. 1700; Gaz. vol. 148; p. 295.
- Turbine, Marine. J. Wilkinson. No. 930,584; Aug. 10; Sp. p. 1976; Gaz. vol. 145; p. 347.
- Turbine, Marine. G. Westinghouse. No. 941,396; Nov. 30; Sp. p. 6520; Gaz. vol. 148; p. 1108.
- Turbine-motor. T. S. Patterson. No. 912,608; Feb. 16; Sp. p. 3281; Gaz. vol. 139; p. 588.
- Turbine-motor. H. E. Kay. No. 913,731; Mar. 2; Sp. p. 111; Gaz. vol. 140; p. 20.
- Turbine-muffler and fly-wheel, Combined. J. A. Lawson. No. 938,253; Oct. 26; Sp. p. 5557; Gaz. vol. 147; p. 950.
- Turbine nozzle control, Elastic-fluid-. G. Westinghouse. No. 930,906; Aug. 10; Sp. p. 2646; Gaz. vol. 145; p. 454.
- Turbine pump or blower. H. A. Fee. No. 916,427; Mar. 30; Sp. p. 5613; Gaz. vol. 140; p. 1017.
- Turbine, Radial. B. Ljungström. No. 908,685; Jan. 5; Sp. p. 541; Gaz. vol. 138; p. 84.
- Turbine-regulator. S. T. Holly. No. 942,828; Dec. 7; Sp. p. 1645; Gaz. vol. 149; p. 269.
- Turbine, Reversible steam-. S. Grund. No. 925,089; June 15; Sp. p. 4259; Gaz. vol. 143; p. 725.
- Turbine, Reversible steam-. W. M. Esterling. No. 933,028; Aug. 31; Sp. p. 7151; Gaz. vol. 145; p. 1228.
- Turbine, Reversing. H. T. Werber. No. 937,492; Oct. 19; Sp. p. 3973; Gaz. vol. 147; p. 675.
- Turbine, Steam-. A. Faywischewitsch. No. 911,653; Feb. 9; Sp. p. 1259; Gaz. vol. 139; p. 237.
- Turbine, Steam-. A. H. Beckman. No. 912,061; Feb. 9; Sp. p. 2137; Gaz. vol. 139; p. 309.
- Turbine, Steam-. J. F. M. Patitz. No. 915,212; Mar. 16; Sp. p. 3235; Gaz. vol. 140; p. 565.
- Turbine, Steam-. F. H. Lindner. No. 915,451; Mar. 16; Sp. p. 3702; Gaz. vol. 140; p. 645.
- Turbine, Steam-. J. C. Piper. No. 916,779; Mar. 30; Sp. p. 6302; Gaz. vol. 140; p. 1127.
- Turbine, Steam-. J. D. Fraivillig. No. 919,340; Apr. 27; Sp. p. 5112; Gaz. vol. 141; p. 887.
- Turbine, Steam-. J. Wilkinson. No. 920,232; May 4; Sp. p. 283; Gaz. vol. 142; p. 46.
- Turbine, Steam-. A. Bonom. No. 924,309; June 8; Sp. p. 2656; Gaz. vol. 143; p. 432.
- Turbine, Steam-. D. Kemble. No. 927,657; July 13; Sp. p. 1989; Gaz. vol. 144; p. 347.
- Turbine, Steam-. D. Kemble. No. 927,658; July 13; Sp. p. 1994; Gaz. vol. 144; p. 347.

*Alphabetical list of inventions—Continued.*

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 Turbine, Steam-. W. Barre. No. 934,497; Sept. 21; Sp. p. 3075; Gaz. vol. 146; p. 536.  
 Turbine, Steam-. R. A. McKee. No. 937,006; Oct. 12; Sp. p. 2911; Gaz. vol. 147; p. 485.  
 Turbine, Steam-. M. Keller. No. 941,322; Nov. 23; Sp. p. 6337; Gaz. vol. 148; p. 1060.  
 Turbine, Steam-. E. F. Edgar. No. 943,922; Dec. 21; Sp. p. 4069; Gaz. vol. 149; p. 705.  
 Turbine steam-packing. C. P. Wetherbee. No. 911,350; Feb. 2; Sp. p. 641; Gaz. vol. 139; p. 109.  
 Turbine vane series. B. Ljungström. No. 911,663; Feb. 9; Sp. p. 1278; Gaz. vol. 139; p. 239.  
 Turbine, Variable-speed elastic-fluid. G. Belluzzo. No. 931,985; Aug. 24; Sp. p. 5021; Gaz. vol. 145; p. 860.  
 Turbine water-wheel. H. Broomell. No. 930,832; Aug. 10; Sp. p. 2482; Gaz. vol. 145; p. 429.  
 Turbines, Automatic stop for elastic-fluid. F. Hodgkinson. No. 940,689; Nov. 23; Sp. p. 4981; Gaz. vol. 148; p. 850.  
 Turbines, Bucket for elastic-fluid. C. P. Steinmetz. No. 924,852; June 15; Sp. p. 3774; Gaz. vol. 143; p. 646.  
 Turbines, Driving gas or gas-and-steam. H. Schmick. No. 910,237; Jan. 19; Sp. p. 3660; Gaz. vol. 138; p. 665.  
 Turbines, Governing means for elastic-fluid. C. W. Dake. No. 930,048; Aug. 3; Sp. p. 899; Gaz. vol. 145; p. 144.  
 Turbines, Governing mechanism for elastic-fluid. S. Z. de Ferranti. No. 916,944; Mar. 30; Sp. p. 6641; Gaz. vol. 140; p. 1183.  
 Turbines, Means for heating thick flanges of. C. A. Parsons. No. 935,683; Oct. 5; Sp. p. 130; Gaz. vol. 147; p. 21.  
 Turbines, Nozzle for elastic-fluid. H. S. Baldwin. No. 916,968; Apr. 6; Sp. p. 15; Gaz. vol. 141; p. 6.  
 Turbines, Nozzle for elastic-fluid. J. G. Callan. No. 922,562; May 25; Sp. p. 5081; Gaz. vol. 142; p. 901.  
 Turbines, Regulation of. R. Schulz. No. 919,253; Apr. 20; Sp. p. 4899; Gaz. vol. 141; p. 822.  
 Turbines, Vane-ring for. B. Ljungström. No. 933,379; Sept. 7; Sp. p. 794; Gaz. vol. 146; p. 122.  
 Turbo-blower. A. L. Wolfson. No. 910,036; Jan. 19; Sp. p. 3232; Gaz. vol. 138; p. 596.  
 Turbo-generator. E. J. Berg. No. 910,165; Jan. 19; Sp. p. 3484; Gaz. vol. 138; p. 637.  
 Turbo-generator. B. H. Hamilton and W. E. Ver Planck. No. 920,052; Apr. 27; Sp. p. 6620; Gaz. vol. 141; p. 1126.  
 Turbo-generator, Direct-current. A. H. Wouters. No. 932,661; Aug. 31; Sp. p. 6425; Gaz. vol. 145; p. 1109.  
 Turbo-rotor. A. H. Wouters. No. 932,083; Aug. 24; Sp. p. 5232; Gaz. vol. 145; p. 892.  
 Turn-table. J. J. Weaver. No. 910,754; Jan. 26; Sp. p. 4768; Gaz. vol. 138; p. 862.  
 Turn-table. S. M. Hunter, C. E. Akeley, and D. E. Holt. No. 913,888; Feb. 23; Sp. p. 4874; Gaz. vol. 139; p. 873.  
 Turn-table. F. Kobler. No. 915,360; Mar. 16; Sp. p. 3513; Gaz. vol. 140; p. 613.  
 Turn-table. H. M. Verplanck. No. 922,643; May 25; Sp. p. 5243; Gaz. vol. 142; p. 927.  
 Turn-table. A. O. Slentz. No. 926,147; June 29; Sp. p. 6402; Gaz. vol. 143; p. 1137.  
 Turn-table. M. J. Leonard. No. 928,675; July 20; Sp. p. 4106; Gaz. vol. 144; p. 716.  
 Turn-table. C. M. Stanley. No. 930,629; Aug. 10; Sp. p. 2075; Gaz. vol. 145; p. 363.  
 Turn-table. R. J. McKelvey. No. 935,045; Sept. 28; Sp. p. 4162; Gaz. vol. 146; p. 746.  
 Turn-table. J. Kitson. No. 935,994; Oct. 5; Sp. p. 842; Gaz. vol. 147; p. 126.  
 Turn-table. J. R. Beattie. No. 936,854; Oct. 12; Sp. p. 2615; Gaz. vol. 147; p. 436.  
 Turn-table. H. M. Verplanck. No. 938,920; Nov. 2; Sp. p. 1035; Gaz. vol. 148; p. 164.  
 Turn-table. G. A. True. No. 943,491; Dec. 14; Sp. p. 3124; Gaz. vol. 149; p. 527.  
 Turn-table, Folding. A. Reltz. No. 932,495; Aug. 31; Sp. p. 6066; Gaz. vol. 145; p. 1052.  
 Turn-table turner. R. R. Farrell. No. 933,637; Sept. 7; Sp. p. 1375; Gaz. vol. 146; p. 206.  
 Turning and shaping tools, Holder for. B. M. W. Hanson. No. 927,527; July 13; Sp. p. 1697; Gaz. vol. 144; p. 303.  
 Turning crank-pins and eccentrics, Machine for. C. Vogel. No. 923,219; June 1; Sp. p. 203; Gaz. vol. 143; p. 34.  
 Turning tapered work or balls, Attachment for. W. Z. Bean. No. 923,757; June 1; Sp. p. 1415; Gaz. vol. 143; p. 220.  
 Turning-tool. J. T. B. Rheinfeldt. No. 931,889; Aug. 24; Sp. p. 4788; Gaz. vol. 145; p. 827.  
 Turnbuckle. W. Hardick. No. 925,901; June 22; Sp. p. 5906; Gaz. vol. 143; p. 1020.  
 Turnbuckles, Making. E. E. Johnson. No. 935,659; Oct. 5; Sp. p. 67; Gaz. vol. 147; p. 13.  
 Turnbuckles, Making. E. E. Johnson. No. 935,660; Oct. 5; Sp. p. 68; Gaz. vol. 147; p. 13.  
 Turpentine and resinous matter from resinous wood, Apparatus for use in extracting. G. B. Frankforter. No. 918,989; Apr. 20; Sp. p. 4233; Gaz. vol. 141; p. 739.  
 Turpentine and resinous matter from wood, Extracting. G. B. Frankforter. No. 918,990; Apr. 20; Sp. p. 4235; Gaz. vol. 141; p. 740.  
 Turpentine and rosin from resinous woods, Removing. H. T. Yaryan. No. 915,400; Mar. 16; Sp. p. 3598; Gaz. vol. 140; p. 626.  
 Turpentine-apron. T. H. Stone. No. 944,922; Dec. 28; Sp. p. 6231; Gaz. vol. 149; p. 1071.  
 Turpentine-collecting apron and receptacle. E. R. Philip. No. 913,845; Mar. 2; Sp. p. 349; Gaz. vol. 140; p. 59.  
 Turpentine-cup. F. B. Turner. No. 923,387; June 1; Sp. p. 640; Gaz. vol. 143; p. 92.  
 Turpentine-cup. E. A. McKoy. No. 941,724; Nov. 30; Sp. p. 7210; Gaz. vol. 148; p. 1216.  
 Turpentine-cup. E. A. McKoy. No. 942,210; Dec. 7; Sp. p. 390; Gaz. vol. 149; p. 60.  
 Turpentine-cup. E. A. McKoy. No. 942,211; Dec. 7; Sp. p. 391; Gaz. vol. 149; p. 60.  
 Turpentine-gathering apparatus. E. A. McKoy. No. 942,212; Dec. 7; Sp. p. 393; Gaz. vol. 149; p. 60.  
 Turpentine-hack. N. B. Stone. No. 943,050; Dec. 14; Sp. p. 2221; Gaz. vol. 149; p. 377.  
 Twine-cutter. A. J. Willets. No. 916,515; Mar. 30; Sp. p. 5837; Gaz. vol. 140; p. 1047.  
 Twine-cutter. J. P. Weisman. No. 932,203; Aug. 24; Sp. p. 5479; Gaz. vol. 145; p. 933.  
 Twine-cutter. J. H. Keating. No. 941,995; Nov. 30; Sp. p. 7766; Gaz. vol. 148; p. 1308.  
 Twine-cutter, Safety. F. H. Haskell. No. 939,129; Nov. 2; Sp. p. 1444; Gaz. vol. 148; p. 235.  
 Twine-holder. J. R. Armington. No. 912,224; Feb. 9; Sp. p. 2424; Gaz. vol. 139; p. 418.  
 Twine machine, Grass-. T. W. Jerrens. No. 932,708; Aug. 31; Sp. p. 6522; Gaz. vol. 145; p. 1124.  
 Twine-making machine. C. Kieren. No. 939,268; Nov. 9; Sp. p. 1780; Gaz. vol. 148; p. 308.  
 Twine take-up. J. B. Eastman. No. 939,233; Nov. 9; Sp. p. 1707; Gaz. vol. 148; p. 296.  
 Twist-drill. O. Fredrickson. No. 923,257; June 1; Sp. p. 296; Gaz. vol. 143; p. 47.  
 Twist-drills, Machine for making. F. Laplant. No. 935,851; Oct. 5; Sp. p. 531; Gaz. vol. 147; p. 77.  
 Twister stop-motion and measuring mechanism. A. E. Rhoades. No. 918,473; Apr. 13; Sp. p. 3061; Gaz. vol. 141; p. 538.  
 Twisting and doubling frame. P. B. Whitehead. No. 924,950; June 15; Sp. p. 3972; Gaz. vol. 143; p. 679.  
 Twisting-in machine. W. R. Landfear. No. 911,885; Feb. 9; Sp. p. 1676; Gaz. vol. 139; p. 311.  
 Twisting-machine. J. L. Inman. No. 913,895; Mar. 2; Sp. p. 472; Gaz. vol. 140; p. 78.  
 Twisting-machine. T. Nunn. No. 936,346; Oct. 12; Sp. p. 1542; Gaz. vol. 147; p. 264.  
 Twyer-block. A. Benner. No. 935,954; Oct. 5; Sp. p. 755; Gaz. vol. 147; p. 112.  
 Twyer, Injector-. G. A. Williams. No. 941,833; Nov. 30; Sp. p. 7461; Gaz. vol. 148; p. 1254.  
 Twyer-iron. R. C. Kraatz. No. 912,314; Feb. 16; Sp. p. 2657; Gaz. vol. 139; p. 488.  
 Tying machine, Mantle-. S. Cohn. No. 918,011; Apr. 13; Sp. p. 2142; Gaz. vol. 141; p. 385.  
 Tying machine, Mantle-. S. Cohn. No. 918,012; Apr. 13; Sp. p. 2144; Gaz. vol. 141; p. 386.  
 Tympan-frame, Adjustable. C. A. Harris. No. 935,203; Sept. 28; Sp. p. 4483; Gaz. vol. 146; p. 798.  
 Type and type-bar making machine. F. H. Richards. No. 911,612; Feb. 9; Sp. p. 1146; Gaz. vol. 139; p. 221.  
 Type and type-bar making machine. F. H. Richards. No. 912,169; Feb. 9; Sp. p. 2324; Gaz. vol. 139; p. 403.  
 Type-bar. F. H. Richards. No. 919,242; Apr. 20; Sp. p. 4863; Gaz. vol. 141; p. 819.  
 Type-bar. E. E. Taliaferro. No. 925,852; June 22; Sp. p. 5801; Gaz. vol. 143; p. 1004.  
 Type-bar. L. S. Crandall. No. 926,318; June 29; Sp. p. 6760; Gaz. vol. 143; p. 1192.  
 Type-bar and bearing therefor. A. W. Chamberlin. No. 913,199; Feb. 23; Sp. p. 4489; Gaz. vol. 139; p. 809.  
 Type-bar and bearing therefor. A. W. Chamberlin. No. 913,200; Feb. 23; Sp. p. 4492; Gaz. vol. 139; p. 809.  
 Type-bar and hanger. W. E. Burnett. No. 917,244; Apr. 6; Sp. p. 583; Gaz. vol. 141; p. 101.  
 Type-bar and hanger, Combined. T. M. Byrnes. No. 936,089; Oct. 5; Sp. p. 1035; Gaz. vol. 147; p. 157.  
 Type-bar and typographic form. F. H. Richards. No. 942,102; Dec. 7; Sp. p. 149; Gaz. vol. 149; p. 23.  
 Type-bar blanks, Manufacture of. F. H. Richards. No. 919,236; Apr. 20; Sp. p. 4826; Gaz. vol. 141; p. 817.  
 Type-bar, Justified. F. H. Richards. No. 922,632; May 25; Sp. p. 5222; Gaz. vol. 142; p. 924.  
 Type-bar machine. F. H. Richards. No. 919,227; Apr. 20; Sp. p. 4742; Gaz. vol. 141; p. 814.  
 Type-bar machine. F. H. Richards. No. 919,229; Apr. 20; Sp. p. 4769; Gaz. vol. 141; p. 815.  
 Type-bar machine. F. H. Richards. No. 919,240; Apr. 20; Sp. p. 4846; Gaz. vol. 141; p. 818.  
 Type-bar movement. C. Spiro. No. 918,790; Apr. 20; Sp. p. 3789; Gaz. vol. 141; p. 672.  
 Type-bar, Wrought-metal. F. H. Richards. No. 919,239; Apr. 20; Sp. p. 4841; Gaz. vol. 141; p. 818.  
 Type-bars, Making. F. H. Richards. No. 919,222; Apr. 20; Sp. p. 4698; Gaz. vol. 141; p. 812.  
 Type-bars, Making. F. H. Richards. No. 919,238; Apr. 20; Sp. p. 4833; Gaz. vol. 141; p. 818.  
 Type-bars, Manufacture of. F. H. Richards. No. 940,404; Nov. 16; Sp. p. 4372; Gaz. vol. 148; p. 731.  
 Type-bars or type-bar blanks, Means for imparting a movement to. F. H. Richards. No. 919,235; Apr. 20; Sp. p. 4825; Gaz. vol. 141; p. 817.  
 Type-case bracket. A. T. Gaumer. No. 912,462; Feb. 16; Sp. p. 2966; Gaz. vol. 139; p. 537.  
 Type casting and composing machine. W. Ackerman. No. 940,377; Nov. 16; Sp. p. 4311; Gaz. vol. 148; p. 722.  
 Type casting and composing machine. O. V. Sigurdson. No. 942,846; Dec. 7; Sp. p. 1684; Gaz. vol. 149; p. 274.



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 Type casting and composing machine. O. V. Sigurdsson. No. 944,108; Dec. 21; Sp. p. 4457; Gaz. vol. 149; p. 767.  
 Type-casting machine. J. S. Thompson. No. 908,519; Jan. 5; Sp. p. 175; Gaz. vol. 138; p. 31.  
 Type-casting machine. F. G. Nuernberger and G. Rettig, Jr. No. 913,546; Feb. 23; Sp. p. 5195; Gaz. vol. 139; p. 926.  
 Type-casting machine. J. S. Bancroft and M. C. Indahl. No. 915,538; Mar. 16; Sp. p. 3866; Gaz. vol. 140; p. 671.  
 Type-casting machine. J. S. Thompson. No. 917,975; Apr. 13; Sp. p. 2051; Gaz. vol. 141; p. 372.  
 Type-casting machine. I. Shönberg. No. 920,195; May 4; Sp. p. 206; Gaz. vol. 142; p. 32.  
 Type-casting machine. F. H. Pierpont. No. 925,024; June 15; Sp. p. 4136; Gaz. vol. 143; p. 704.  
 Type-casting machine. W. H. Brueckmann. No. 925,866; June 22; Sp. p. 5827; Gaz. vol. 143; p. 1009.  
 Type-casting machine. H. H. Hardinge. No. 926,740; July 6; Sp. p. 66; Gaz. vol. 144; p. 10.  
 Type-casting machines, Device for casting short quads in. J. Kukla. No. 929,862; Aug. 3; Sp. p. 508; Gaz. vol. 145; p. 82.  
 Type-casting machines, Pot-feeder for. L. A. Sengele. No. 932,817; Aug. 31; Sp. p. 6755; Gaz. vol. 145; p. 1159.  
 Type-checker. W. H. Kolvenbach. No. 908,870; Jan. 5; Sp. p. 909; Gaz. vol. 138; p. 144.  
 Type, Device for justifying lines of. R. Dacheux. No. 931,915; Aug. 24; Sp. p. 4881; Gaz. vol. 145; p. 837.  
 Type for numbering-wheels, Removable. B. B. Conrad, F. Sander, and F. W. Wright. No. 923,773; June 1; Sp. p. 1474; Gaz. vol. 143; p. 225.  
 Type for type-writing and other machines. O. C. Kavle. No. 935,519; Sept. 28; Sp. p. 5126; Gaz. vol. 146; p. 901.  
 Type for type-writing machines, &c., Machine for making dies for the manufacture of. L. A. Diss. No. 924,539; June 8; Sp. p. 3102; Gaz. vol. 143; p. 507.  
 Type-machine controlling mechanism. J. S. Bancroft and M. C. Indahl. No. 924,957; June 15; Sp. p. 3987; Gaz. vol. 143; p. 681.  
 Type, Machine for composing or setting up. H. Weiniger. No. 919,408; Apr. 27; Sp. p. 5250; Gaz. vol. 141; p. 910.  
 Type, Machine for forming justified lines of. W. T. Hoofnagle. No. 912,961; Feb. 16; Sp. p. 3989; Gaz. vol. 139; p. 702.  
 Type, &c., Machine for making dies or matrices for the manufacture of. L. A. Diss. No. 923,252; June 1; Sp. p. 272; Gaz. vol. 143; p. 45.  
 Type-machine mold-actuating mechanism. F. H. Pierpont. No. 925,023; June 15; Sp. p. 4133; Gaz. vol. 143; p. 704.  
 Type-making machine. W. G. Reynolds. No. 923,998; June 8; Sp. p. 1979; Gaz. vol. 143; p. 328.  
 Type-mold. S. C. Gaunt. No. 922,129; May 18; Sp. p. 4179; Gaz. vol. 142; p. 731.  
 Type-mold, Universal. B. F. Bellows. No. 944,408; Dec. 28; Sp. p. 5103; Gaz. vol. 149; p. 896.  
 Type-perfecting machine. H. S. Wilson. No. 908,634; Jan. 5; Sp. p. 426; Gaz. vol. 138; p. 69.  
 Type, plates, &c., Machine for sawing and trimming. G. H. Vining. No. 943,129; Dec. 14; Sp. p. 2376; Gaz. vol. 149; p. 404.  
 Type, Printing-. S. H. Perky. No. 921,156; May 11; Sp. p. 2156; Gaz. vol. 142; p. 380.  
 Type receiving and supporting device. E. Terrell. No. 940,087; Nov. 16; Sp. p. 3638; Gaz. vol. 148; p. 621.  
 Type setting and casting machine. H. Degener. No. 918,739; Apr. 20; Sp. p. 3703; Gaz. vol. 141; p. 657.  
 Type setting and casting machine. O. Koske. No. 941,931; Nov. 30; Sp. p. 7651; Gaz. vol. 148; p. 1288.  
 Type setting and casting machine. O. Koske. No. 941,932; Nov. 30; Sp. p. 7652; Gaz. vol. 148; p. 1289.  
 Type setting and distributing machine. E. Mirus. No. 913,224; Feb. 23; Sp. p. 4536; Gaz. vol. 139; p. 816.  
 Type setting and distributing machine. A. G. Halfpenny. No. 936,776; Oct. 12; Sp. p. 2460; Gaz. vol. 147; p. 410.  
 Type setting and justifying machine. B. M. Des Jardins. No. 935,968; Oct. 5; Sp. p. 784; Gaz. vol. 147; p. 117.  
 Type-setting and line-casting machine. H. Degener. No. 924,326; June 8; Sp. p. 2689; Gaz. vol. 143; p. 438.  
 Type-setting and printing machine. F. H. Brown, J. E. Hanrahan, and J. L. Sellar. No. 921,946; May 18; Sp. p. 3809; Gaz. vol. 142; p. 946.  
 Type-setting machine. W. W. Lininger. No. 913,743; Mar. 2; Sp. p. 138; Gaz. vol. 140; p. 24.  
 Type-setting machine. W. G. Reynolds. No. 913,851; Mar. 2; Sp. p. 363; Gaz. vol. 140; p. 62.  
 Type-setting machine. F. McClintock. No. 944,493; Dec. 28; Sp. p. 5298; Gaz. vol. 149; p. 924.  
 Type-setting-machine attachment. H. A. Armstrong. No. 912,056; Feb. 9; Sp. p. 2128; Gaz. vol. 139; p. 367.  
 Type-setting machines, Means for electrically operating. H. Drewell. No. 915,748; Mar. 23; Sp. p. 4337; Gaz. vol. 140; p. 771.  
 Type setting-up and casting machine. E. M. M. Retaux. No. 919,951; Apr. 27; Sp. p. 6388; Gaz. vol. 141; p. 1092.  
 Type-writer. N. P. Billing. No. 911,805; Feb. 9; Sp. p. 1527; Gaz. vol. 139; p. 285.  
 Type-writer. E. J. Barker. No. 912,525; Feb. 16; Sp. p. 3109; Gaz. vol. 139; p. 559.  
 Type-writer. F. von Hefner-Alteneck. No. 914,272; Mar. 2; Sp. p. 1319; Gaz. vol. 140; p. 204.  
 Type-writer. L. Chambonnaud. No. 917,248; Apr. 6; Sp. p. 595; Gaz. vol. 141; p. 102.  
 Type-writer. C. C. Chrisman. No. 918,283; Apr. 13; Sp. p. 2692; Gaz. vol. 141; p. 476.  
 Type-writer. F. J. Müller. No. 921,270; May 11; Sp. p. 2398; Gaz. vol. 142; p. 420.  
 Type-writer. G. W. Donning. No. 929,839; Aug. 3; Sp. p. 458; Gaz. vol. 145; p. 74.  
 Type-writer. G. W. Donning. No. 929,840; Aug. 3; Sp. p. 464; Gaz. vol. 145; p. 74.  
 Type-writer. G. W. Donning. No. 931,689; Aug. 17; Sp. p. 4329; Gaz. vol. 145; p. 740.  
 Type-writer. L. J. Odell. No. 932,167; Aug. 24; Sp. p. 5399; Gaz. vol. 145; p. 921.  
 Type-writer. S. Snell. No. 933,593; Sept. 7; Sp. p. 1291; Gaz. vol. 146; p. 192.  
 Type-writer. W. E. Russell. No. 934,218; Sept. 14; Sp. p. 2537; Gaz. vol. 146; p. 419.  
 Type-writer. W. G. Babcock. No. 934,786; Sept. 21; Sp. p. 3631; Gaz. vol. 146; p. 633.  
 Type-writer. L. P. Diss. No. 935,301; Sept. 28; Sp. p. 4673; Gaz. vol. 146; p. 830.  
 Type-writer. J. M. Harris. No. 937,599; Oct. 19; Sp. p. 4175; Gaz. vol. 147; p. 711.  
 Type-writer. S. Aronson. No. 939,965; Nov. 16; Sp. p. 3335; Gaz. vol. 148; p. 577.  
 Type-writer. L. Hauerstein. No. 942,825; Dec. 7; Sp. p. 1628; Gaz. vol. 149; p. 268.  
 Type-writer. A. Beyerlen. No. 944,590; Dec. 28; Sp. p. 5533; Gaz. vol. 149; p. 959.  
 Type-writer, Adding. J. G. Kingsburg. No. 932,786; Aug. 31; Sp. p. 6698; Gaz. vol. 145; p. 1149.  
 Type-writer adding attachment. H. H. Burton. No. 921,358; May 11; Sp. p. 2608; Gaz. vol. 142; p. 449.  
 Type-writer adding attachment. C. H. Gill. No. 924,759; June 15; Sp. p. 3580; Gaz. vol. 143; p. 615.  
 Type-writer adding-machine attachment. L. M. Daniel. No. 925,685; June 22; Sp. p. 5411; Gaz. vol. 143; p. 947.  
 Type-writer and music-printer, Combined. G. M. N. Lafarie. No. 926,947; July 6; Sp. p. 500; Gaz. vol. 144; p. 82.  
 Type-writer attachment. J. H. Rand. No. 916,196; Mar. 23; Sp. p. 5166; Gaz. vol. 140; p. 915.  
 Type-writer attachment. F. E. Rieger. No. 930,885; Aug. 10; Sp. p. 2612; Gaz. vol. 145; p. 446.  
 Type-writer attachment. W. A. Tompkins. No. 938,354; Oct. 26; Sp. p. 5794; Gaz. vol. 147; p. 983.  
 Type-writer attachment. A. C. Kendrick. No. 939,265; Nov. 9; Sp. p. 1769; Gaz. vol. 148; p. 307.  
 Type-writer attachment. E. Z. Lewis. No. 940,336; Nov. 16; Sp. p. 4199; Gaz. vol. 148; p. 708.  
 Type-writer attachment. W. M. Deeter. No. 942,366; Dec. 7; Sp. p. 703; Gaz. vol. 149; p. 114.  
 Type-writer billing attachment. H. B. Young. No. 933,942; Sept. 14; Sp. p. 1995; Gaz. vol. 146; p. 328.  
 Type-writer cabinet. W. Hetterschied. No. 909,796; Jan. 12; Sp. p. 2743; Gaz. vol. 138; p. 483.  
 Type-writer cabinet. J. D. Cleaton. No. 936,864; Oct. 12; Sp. p. 2631; Gaz. vol. 147; p. 439.  
 Type-writer cabinet. M. Foley. No. 941,985; Nov. 30; Sp. p. 7752; Gaz. vol. 148; p. 1305.  
 Type-writer carriage-moving device. H. Drewell. No. 915,749; Mar. 23; Sp. p. 4341; Gaz. vol. 140; p. 772.  
 Type-writer carriage-return and line-spacing mechanism. G. Trejo. No. 938,801; Nov. 2; Sp. p. 745; Gaz. vol. 148; p. 121.  
 Type-writer carriage-return mechanism. E. A. Burlingame. No. 909,539; Jan. 12; Sp. p. 2234; Gaz. vol. 138; p. 397.  
 Type-writer carriage-stop mechanism. M. B. Sargent. No. 939,640; Nov. 9; Sp. p. 2641; Gaz. vol. 148; p. 436.  
 Type-writer case. B. S. Gore. No. 912,951; Feb. 16; Sp. p. 3975; Gaz. vol. 139; p. 700.  
 Type-writer, Coin-controlled. E. Colwell, Jr. No. 923,142; June 1; Sp. p. 35; Gaz. vol. 143; p. 7.  
 Type-writer column-stop mechanism. T. L. Knapp and C. C. Harting. No. 916,720; Mar. 30; Sp. p. 6202; Gaz. vol. 140; p. 1111.  
 Type-writer copy holder and marker. T. W. McCreary. No. 912,596; Feb. 16; Sp. p. 3252; Gaz. vol. 139; p. 583.  
 Type-writer cylinders, Attachment for. G. E. Pease. No. 930,415; Aug. 10; Sp. p. 1594; Gaz. vol. 145; p. 289.  
 Type-writer desk. J. Vaaler. No. 934,861; Sept. 21; Sp. p. 3790; Gaz. vol. 146; p. 658.  
 Type-writer desk or table-top. G. M. Crider. No. 938,464; Nov. 2; Sp. p. 24; Gaz. vol. 148; p. 6.  
 Type-writer, Electrical. H. C. Horstmann. No. 919,432; Apr. 27; Sp. p. 5307; Gaz. vol. 141; p. 918.  
 Type-writer, &c., Inking device. F. Dowd. No. 911,707; Feb. 9; Sp. p. 1366; Gaz. vol. 139; p. 254.  
 Type-writer, Justifying. W. G. White. No. 943,502; Dec. 14; Sp. p. 3148; Gaz. vol. 149; p. 531.  
 Type-writer, Key-wheel. J. W. Miller, Sr. No. 941,026; Nov. 23; Sp. p. 5708; Gaz. vol. 148; p. 963.  
 Type-writer keyboard. S. W. Rowell. No. 943,466; Dec. 14; Sp. p. 3074; Gaz. vol. 149; p. 517.  
 Type-writer keyboard-lock. W. P. Kidder. No. 938,059; Oct. 26; Sp. p. 5137; Gaz. vol. 147; p. 882.  
 Type-writer line-space indicator. C. C. Poole. No. 927,750; July 13; Sp. p. 2171; Gaz. vol. 144; p. 377.  
 Type-writer line-spacing indicator. C. C. Poole. No. 929,242; July 27; Sp. p. 5249; Gaz. vol. 144; p. 930.  
 Type-writer line-spacing mechanism. F. H. Ward. No. 924,021; June 8; Sp. p. 2024; Gaz. vol. 143; p. 335.  
 Type-writer line-spacing mechanism. G. A. Smith. No. 935,936; Oct. 5; Sp. p. 720; Gaz. vol. 147; p. 106.  
 Type-writer locking device. G. W. Donning. No. 929,841; Aug. 3; Sp. p. 471; Gaz. vol. 145; p. 75.  
 Type-writer locking mechanism, Coin-controlled. E. Colwell, Jr. No. 923,143; June 1; Sp. p. 40; Gaz. vol. 143; p. 7.



*Alphabetical list of inventions—Continued.*

- Type-writer machines, Time-controlled coin-operated locking device for. H. Bates. (Reissue.) No. 12,967; June 1; Sp. p. 1591; Gaz. vol. 143; p. 238.
- Type-writer of the type-bar class. H. Moya. No. 921,269; May 11; Sp. p. 2393; Gaz. vol. 142; p. 420.
- Type-writer paper-feeding device. U. A. Abrahams. No. 934,126; Sept. 14; Sp. p. 2371; Gaz. vol. 146; p. 388.
- Type-writer paper-movement indicator. C. C. Poole. No. 929,243; July 27; Sp. p. 5254; Gaz. vol. 144; p. 931.
- Type-writer paper-roll attachment. A. F. McCulley. No. 938,885; Nov. 2; Sp. p. 943; Gaz. vol. 143; p. 149.
- Type-writer platen-shift mechanism. G. A. Smith. No. 910,427; Jan. 19; Sp. p. 4080; Gaz. vol. 138; p. 731.
- Type-writer printing mechanism. R. W. Uhlig. No. 936,833; Oct. 12; Sp. p. 2567; Gaz. vol. 147; p. 429.
- Type-writer ribbon-feeding mechanism. R. W. Uhlig. No. 936,834; Oct. 12; Sp. p. 2575; Gaz. vol. 147; p. 429.
- Type-writer ribbon handling device. E. C. Magnus. No. 922,927; May 25; Sp. p. 5851; Gaz. vol. 142; p. 1019.
- Type-writer ribbon mechanism. F. Sholes. No. 929,030; July 27; Sp. p. 4815; Gaz. vol. 144; p. 861.
- Type-writer ribbon movement. C. S. Nickerson. No. 915,037; Mar. 9; Sp. p. 2838; Gaz. vol. 140; p. 481.
- Type-writer ribbon-positioning device. G. Trejo. No. 926,036; June 22; Sp. p. 6165; Gaz. vol. 143; p. 1064.
- Type-writer ribbon-spool. J. F. O'Connor. No. 928,001; July 13; Sp. p. 2696; Gaz. vol. 144; p. 460.
- Type-writer ribbons, Device for automatically reversing the travel of. O. Rutishauser. No. 936,257; Oct. 5; Sp. p. 1351; Gaz. vol. 147; p. 208.
- Type-writer stop device. F. B. Cram. No. 913,362; Feb. 23; Sp. p. 4820; Gaz. vol. 139; p. 864.
- Type-writer tabulating device. G. W. Donning. No. 929,838; Aug. 3; Sp. p. 448; Gaz. vol. 145; p. 73.
- Type-writer tabulating device. W. H. Hulse. No. 933,840; Sept. 14; Sp. p. 1797; Gaz. vol. 146; p. 296.
- Type-writer tabulating device. C. S. Labofish. No. 940,395; Nov. 16; Sp. p. 4350; Gaz. vol. 143; p. 728.
- Type-writer tabulating-stop. J. F. Allard. No. 918,722; Apr. 20; Sp. p. 3672; Gaz. vol. 141; p. 652.
- Type-writer, Telegraphic. E. Burlingame. No. 928,581; July 20; Sp. p. 3912; Gaz. vol. 144; p. 683.
- Type-writer touch key-finder. G. A. Cage. No. 943,108; Dec. 14; Sp. p. 2338; Gaz. vol. 149; p. 397.
- Type-writer type-bar construction. C. W. Howell, Jr. No. 935,987; Oct. 5; Sp. p. 825; Gaz. vol. 147; p. 123.
- Type-writer's copy-holder. W. P. McNatt. No. 919,923; Apr. 27; Sp. p. 6345; Gaz. vol. 141; p. 1084.
- Type-writers, Ink-fountain attachment for. W. E. Phillips. No. 926,764; July 6; Sp. p. 117; Gaz. vol. 144; p. 19.
- Type-writers, Paper-feed for. E. S. Mansfield. No. 941,889; Nov. 30; Sp. p. 7569; Gaz. vol. 148; p. 1273.
- Type-writing and adding machines, Variable automatic spacing mechanism for combined. W. L. Dench. No. 927,838; July 13; Sp. p. 2368; Gaz. vol. 144; p. 406.
- Type-writing and calculating machine, Combined. H. D. Bolton. No. 922,559; May 25; Sp. p. 5069; Gaz. vol. 142; p. 900.
- Type-writing and calculating machines, Variable-spacing mechanism for combined. C. F. Laganke. No. 929,675; Aug. 3; Sp. p. 62; Gaz. vol. 145; p. 13.
- Type-writing machine. B. C. Stickney. No. 908,622; Jan. 5; Sp. p. 400; Gaz. vol. 138; p. 65.
- Type-writing machine. J. Felbel. No. 908,655; Jan. 5; Sp. p. 486; Gaz. vol. 138; p. 76.
- Type-writing machine. G. A. Seib. No. 908,703; Jan. 5; Sp. p. 582; Gaz. vol. 138; p. 90.
- Type-writing machine. M. W. Pool. No. 909,334; Jan. 12; Sp. p. 1835; Gaz. vol. 138; p. 329.
- Type-writing machine. H. H. Steele. No. 909,473; Jan. 12; Sp. p. 2100; Gaz. vol. 138; p. 374.
- Type-writing machine. C. S. Labofish. No. 909,616; Jan. 12; Sp. p. 2385; Gaz. vol. 138; p. 423.
- Type-writing machine. J. C. McLaughlin. No. 910,410; Jan. 19; Sp. p. 4049; Gaz. vol. 138; p. 725.
- Type-writing machine. A. T. Brown. No. 910,900; Jan. 26; Sp. p. 5042; Gaz. vol. 138; p. 908.
- Type-writing machine. A. T. Brown. No. 910,987; Jan. 26; Sp. p. 5195; Gaz. vol. 138; p. 937.
- Type-writing machine. C. A. Joerissen. No. 911,014; Jan. 26; Sp. p. 5250; Gaz. vol. 138; p. 945.
- Type-writing machine. A. T. Brown. No. 911,198; Feb. 2; Sp. p. 343; Gaz. vol. 139; p. 60.
- Type-writing machine. A. W. Smith. No. 911,275; Feb. 2; Sp. p. 502; Gaz. vol. 139; p. 86.
- Type-writing machine. L. S. Burrigide. No. 911,644; Feb. 9; Sp. p. 1233; Gaz. vol. 139; p. 233.
- Type-writing machine. C. J. Rollefson. No. 911,842; Feb. 9; Sp. p. 1595; Gaz. vol. 139; p. 296.
- Type-writing machine. M. W. Pool. No. 911,908; Feb. 9; Sp. p. 1719; Gaz. vol. 139; p. 319.
- Type-writing machine. G. A. Greenwood. No. 912,118; Feb. 9; Sp. p. 2238; Gaz. vol. 139; p. 387.
- Type-writing machine. G. A. Seib. No. 912,186; Feb. 9; Sp. p. 2357; Gaz. vol. 139; p. 407.
- Type-writing machine. G. H. Smith. No. 912,193; Feb. 9; Sp. p. 2367; Gaz. vol. 139; p. 409.
- Type-writing machine. H. P. Moorrees. No. 912,316; Feb. 16; Sp. p. 2661; Gaz. vol. 139; p. 488.
- Type-writing machine. C. H. Shepard. No. 912,327; Feb. 16; Sp. p. 2692; Gaz. vol. 139; p. 493.
- Type-writing machine. E. S. Morgan. No. 912,710; Feb. 16; Sp. p. 3494; Gaz. vol. 139; p. 623.
- Type-writing machine. C. S. Nickerson. No. 913,038; Feb. 23; Sp. p. 4151; Gaz. vol. 139; p. 754.
- Type-writing machine. C. S. Nickerson. No. 913,039; Feb. 23; Sp. p. 4164; Gaz. vol. 139; p. 754.
- Type-writing machine. W. J. Barron. No. 913,093; Feb. 23; Sp. p. 4266; Gaz. vol. 139; p. 773.
- Type-writing machine. M. Klaczko. No. 913,215; Feb. 23; Sp. p. 4516; Gaz. vol. 139; p. 813.
- Type-writing machine. F. C. Ursbruck. No. 913,587; Feb. 23; Sp. p. 5308; Gaz. vol. 139; p. 939.
- Type-writing machine. H. S. McCormack. No. 914,062; Mar. 2; Sp. p. 876; Gaz. vol. 140; p. 136.
- Type-writing machine. H. H. Steele. No. 914,081; Mar. 2; Sp. p. 910; Gaz. vol. 140; p. 143.
- Type-writing machine. W. H. Denning. No. 914,121; Mar. 2; Sp. p. 994; Gaz. vol. 140; p. 158.
- Type-writing machine. L. P. Diss. No. 914,123; Mar. 2; Sp. p. 1000; Gaz. vol. 140; p. 158.
- Type-writing machine. B. C. Stickney. No. 914,612; Mar. 9; Sp. p. 2006; Gaz. vol. 140; p. 342.
- Type-writing machine. C. S. Nickerson. No. 914,667; Mar. 9; Sp. p. 2114; Gaz. vol. 140; p. 359.
- Type-writing machine. A. T. Brown. No. 915,015; Mar. 9; Sp. p. 2786; Gaz. vol. 140; p. 471.
- Type-writing machine. E. F. Kunath. No. 915,030; Mar. 9; Sp. p. 2820; Gaz. vol. 140; p. 477.
- Type-writing machine. E. H. Berry. No. 915,541; Mar. 16; Sp. p. 3878; Gaz. vol. 140; p. 672.
- Type-writing machine. D. Briggs. No. 915,547; Mar. 16; Sp. p. 3889; Gaz. vol. 140; p. 674.
- Type-writing machine. J. D. Daugherty. No. 915,662; Mar. 16; Sp. p. 4156; Gaz. vol. 140; p. 717.
- Type-writing machine. W. P. Keene. No. 915,679; Mar. 16; Sp. p. 4189; Gaz. vol. 140; p. 722.
- Type-writing machine. D. Briggs. No. 915,732; Mar. 23; Sp. p. 4308; Gaz. vol. 140; p. 766.
- Type-writing machine. H. S. McCormack. No. 915,875; Mar. 23; Sp. p. 4567; Gaz. vol. 140; p. 811.
- Type-writing machine. J. A. Ruffin. No. 915,890; Mar. 23; Sp. p. 4597; Gaz. vol. 140; p. 816.
- Type-writing machine. D. Briggs. No. 916,099; Mar. 23; Sp. p. 4969; Gaz. vol. 140; p. 884.
- Type-writing machine. D. Briggs. No. 916,836; Mar. 30; Sp. p. 6410; Gaz. vol. 140; p. 1146.
- Type-writing machine. E. B. Hess. No. 916,865; Mar. 30; Sp. p. 6470; Gaz. vol. 140; p. 1156.
- Type-writing machine. D. Briggs. No. 916,990; Apr. 6; Sp. p. 47; Gaz. vol. 141; p. 13.
- Type-writing machine. H. H. Steele. No. 917,373; Apr. 6; Sp. p. 842; Gaz. vol. 141; p. 144.
- Type-writing machine. W. J. Barron. No. 917,745; Apr. 13; Sp. p. 1545; Gaz. vol. 141; p. 293.
- Type-writing machine. B. C. Stickney. No. 917,809; Apr. 13; Sp. p. 1696; Gaz. vol. 141; p. 314.
- Type-writing machine. R. E. Martin. No. 917,958; Apr. 13; Sp. p. 2009; Gaz. vol. 141; p. 365.
- Type-writing machine. F. X. Wagner. No. 918,103; Apr. 13; Sp. p. 2321; Gaz. vol. 141; p. 416.
- Type-writing machine. O. Woodward. No. 918,243; Apr. 13; Sp. p. 2617; Gaz. vol. 141; p. 464.
- Type-writing machine. J. F. Forkarth. No. 918,308; Apr. 13; Sp. p. 2734; Gaz. vol. 141; p. 485.
- Type-writing machine. F. L. Morgan. No. 918,459; Apr. 13; Sp. p. 3034; Gaz. vol. 141; p. 533.
- Type-writing machine. G. H. Smith. No. 918,480; Apr. 13; Sp. p. 3075; Gaz. vol. 141; p. 540.
- Type-writing machine. H. W. Merritt. No. 918,576; Apr. 20; Sp. p. 3296; Gaz. vol. 141; p. 599.
- Type-writing machine. O. Woodward. No. 918,938; Apr. 20; Sp. p. 4127; Gaz. vol. 141; p. 723.
- Type-writing machine. W. F. Helmond. No. 919,012; Apr. 20; Sp. p. 4268; Gaz. vol. 141; p. 746.
- Type-writing machine. H. N. Joselyn. No. 919,020; Apr. 20; Sp. p. 4281; Gaz. vol. 141; p. 749.
- Type-writing machine. G. A. Seib. No. 919,254; Apr. 20; Sp. p. 4902; Gaz. vol. 141; p. 823.
- Type-writing machine. W. H. Kessler. No. 920,155; May 4; Sp. p. 124; Gaz. vol. 142; p. 19.
- Type-writing machine. C. E. Tomlinson. No. 920,221; May 4; Sp. p. 262; Gaz. vol. 142; p. 42.
- Type-writing machine. C. B. Yaw. No. 920,410; May 4; Sp. p. 644; Gaz. vol. 142; p. 103.
- Type-writing machine. E. E. Barney. No. 920,521; May 4; Sp. p. 866; Gaz. vol. 142; p. 140.
- Type-writing machine. H. W. Merritt. No. 920,600; May 4; Sp. p. 1023; Gaz. vol. 142; p. 167.
- Type-writing machine. J. Felbel. No. 920,850; May 4; Sp. p. 1531; Gaz. vol. 142; p. 248.
- Type-writing machine. J. Felbel. No. 921,213; May 11; Sp. p. 2288; Gaz. vol. 142; p. 402.
- Type-writing machine. J. Felbel. No. 921,214; May 11; Sp. p. 2293; Gaz. vol. 142; p. 402.
- Type-writing machine. H. H. Steele. No. 921,303; May 11; Sp. p. 2470; Gaz. vol. 142; p. 430.
- Type-writing machine. J. C. Doane. No. 921,598; May 11; Sp. p. 3073; Gaz. vol. 142; p. 527.
- Type-writing machine. J. C. Doane. No. 921,599; May 11; Sp. p. 3078; Gaz. vol. 142; p. 528.
- Type-writing machine. U. G. Fuller. No. 921,605; May 11; Sp. p. 3102; Gaz. vol. 142; p. 530.



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- Type-writing machine. U. G. Fuller. No. 921,606; May 11; Sp. p. 3107; Gaz. vol. 142; p. 531.  
 Type-writing machine. H. S. McCormack. No. 921,619; May 11; Sp. p. 3133; Gaz. vol. 142; p. 536.  
 Type-writing machine. H. S. McCormack. No. 921,620; May 11; Sp. p. 3137; Gaz. vol. 142; p. 536.  
 Type-writing machine. E. E. Barney. No. 921,662; May 18; Sp. p. 3245; Gaz. vol. 142; p. 577.  
 Type-writing machine. G. A. Seib. No. 921,745; May 18; Sp. p. 3395; Gaz. vol. 142; p. 605.  
 Type-writing machine. F. A. Young. No. 921,779; May 18; Sp. p. 3475; Gaz. vol. 142; p. 618.  
 Type-writing machine. A. W. Hewitt. No. 921,834; May 18; Sp. p. 3602; Gaz. vol. 142; p. 635.  
 Type-writing machine. C. F. Lundberg. No. 921,857; May 18; Sp. p. 3649; Gaz. vol. 142; p. 643.  
 Type-writing machine. L. Ney. No. 921,876; May 18; Sp. p. 3680; Gaz. vol. 142; p. 649.  
 Type-writing machine. T. Oliver. No. 922,027; May 18; Sp. p. 3991; Gaz. vol. 142; p. 698.  
 Type-writing machine. A. T. Brown. No. 922,385; May 18; Sp. p. 4686; Gaz. vol. 142; p. 814.  
 Type-writing machine. G. C. Carhart. No. 923,016; May 25; Sp. p. 6012; Gaz. vol. 142; p. 1047.  
 Type-writing machine. O. Woodward. No. 923,099; May 25; Sp. p. 6194; Gaz. vol. 142; p. 1074.  
 Type-writing machine. E. E. Barney. No. 923,106; May 25; Sp. p. 6206; Gaz. vol. 142; p. 1076.  
 Type-writing machine. F. W. Hillard. No. 923,120; May 25; Sp. p. 6236; Gaz. vol. 142; p. 1081.  
 Type-writing machine. F. W. Hillard. No. 923,121; May 25; Sp. p. 6240; Gaz. vol. 142; p. 1081.  
 Type-writing machine. A. T. Brown. No. 923,243; June 1; Sp. p. 252; Gaz. vol. 143; p. 42.  
 Type-writing machine. C. P. Mosher. No. 923,438; June 1; Sp. p. 729; Gaz. vol. 143; p. 108.  
 Type-writing machine. J. Felbel. No. 923,503; June 1; Sp. p. 868; Gaz. vol. 143; p. 132.  
 Type-writing machine. C. W. Howell. No. 923,527; June 1; Sp. p. 918; Gaz. vol. 143; p. 141.  
 Type-writing machine. W. H. Woodford. No. 923,749; June 1; Sp. p. 1388; Gaz. vol. 143; p. 216.  
 Type-writing machine. F. X. Wagner. (Reissue.) No. 12,970; June 8; Sp. p. 3294; Gaz. vol. 142; p. 538.  
 Type-writing machine. W. J. Roche. No. 923,893; June 8; Sp. p. 1771; Gaz. vol. 143; p. 295.  
 Type-writing machine. H. Crutchley. No. 923,951; June 8; Sp. p. 1875; Gaz. vol. 143; p. 313.  
 Type-writing machine. G. A. Seib. No. 924,006; June 8; Sp. p. 1995; Gaz. vol. 143; p. 331.  
 Type-writing machine. J. C. McLaughlin. No. 924,096; June 8; Sp. p. 2145; Gaz. vol. 143; p. 358.  
 Type-writing machine. J. Simis. No. 924,198; June 8; Sp. p. 2414; Gaz. vol. 143; p. 394.  
 Type-writing machine. J. F. Allard. No. 924,525; June 8; Sp. p. 3063; Gaz. vol. 143; p. 502.  
 Type-writing machine. G. H. Smith. No. 924,590; June 8; Sp. p. 3200; Gaz. vol. 143; p. 524.  
 Type-writing machine. E. E. Strong. No. 924,593; June 8; Sp. p. 3209; Gaz. vol. 143; p. 525.  
 Type-writing machine. C. Gibbs and J. Sokolov. No. 924,606; June 8; Sp. p. 3249; Gaz. vol. 143; p. 530.  
 Type-writing machine. A. T. Brown. No. 923,763; June 1; Sp. p. 1435; Gaz. vol. 143; p. 222.  
 Type-writing machine. A. T. Brown. No. 924,885; June 15; Sp. p. 3844; Gaz. vol. 143; p. 656.  
 Type-writing machine. J. C. McLaughlin. No. 925,373; June 15; Sp. p. 4780; Gaz. vol. 143; p. 816.  
 Type-writing machine. F. A. Young. No. 925,411; June 15; Sp. p. 4846; Gaz. vol. 143; p. 828.  
 Type-writing machine. E. Burns and G. H. Horton. No. 925,422; June 15; Sp. p. 4866; Gaz. vol. 143; p. 832.  
 Type-writing machine. E. Thürey. No. 925,530; June 22; Sp. p. 5096; Gaz. vol. 143; p. 898.  
 Type-writing machine. J. H. Barr. No. 925,796; June 22; Sp. p. 5687; Gaz. vol. 143; p. 985.  
 Type-writing machine. J. C. McLaughlin. No. 926,014; June 22; Sp. p. 6111; Gaz. vol. 143; p. 1057.  
 Type-writing machine. F. A. Cook. No. 926,050; June 22; Sp. p. 6189; Gaz. vol. 143; p. 1069.  
 Type-writing machine. J. C. Doane. No. 926,054; June 22; Sp. p. 6196; Gaz. vol. 146; p. 1070.  
 Type-writing machine. C. E. Tomlinson. No. 926,149; June 29; Sp. p. 6407; Gaz. vol. 143; p. 1137.  
 Type-writing machine. E. E. Barney. No. 927,091; July 6; Sp. p. 829; Gaz. vol. 144; p. 132.  
 Type-writing machine. C. B. Yaw. No. 927,203; July 6; Sp. p. 1040; Gaz. vol. 144; p. 168.  
 Type-writing machine. J. C. McLaughlin. No. 927,425; July 6; Sp. p. 1454; Gaz. vol. 144; p. 241.  
 Type-writing machine. O. Woodward. No. 927,626; July 13; Sp. p. 1904; Gaz. vol. 144; p. 337.  
 Type-writing machine. F. W. Sickles. No. 928,225; July 13; Sp. p. 3145; Gaz. vol. 144; p. 536.  
 Type-writing machine. F. W. Sickles. No. 928,226; July 13; Sp. p. 3146; Gaz. vol. 144; p. 536.  
 Type-writing machine. C. Delvigne. No. 928,591; July 20; Sp. p. 3931; Gaz. vol. 144; p. 687.  
 Type-writing machine. A. T. Brown. No. 928,627; July 20; Sp. p. 4010; Gaz. vol. 144; p. 699.  
 Type-writing machine. J. C. Doane. No. 928,856; July 20; Sp. p. 4445; Gaz. vol. 144; p. 775.  
 Type-writing machine. H. S. McCormack. No. 928,876; July 20; Sp. p. 4494; Gaz. vol. 144; p. 783.  
 Type-writing machine. J. C. McLaughlin. No. 928,877; July 20; Sp. p. 4499; Gaz. vol. 144; p. 784.  
 Type-writing machine. E. L. Pfunder. No. 928,882; July 20; Sp. p. 4510; Gaz. vol. 144; p. 786.  
 Type-writing machine. H. G. Davis. No. 928,945; July 27; Sp. p. 4639; Gaz. vol. 144; p. 833.  
 Type-writing machine. W. F. Helmond. No. 928,972; July 27; Sp. p. 4695; Gaz. vol. 144; p. 841.  
 Type-writing machine. E. F. Kunath. No. 928,987; July 27; Sp. p. 4724; Gaz. vol. 144; p. 847.  
 Type-writing machine. H. Crutchley. No. 929,080; July 27; Sp. p. 4919; Gaz. vol. 144; p. 877.  
 Type-writing machine. H. S. McCormack. No. 929,158; July 27; Sp. p. 5084; Gaz. vol. 144; p. 903.  
 Type-writing machine. G. F. Ballou. No. 929,182; July 27; Sp. p. 5133; Gaz. vol. 144; p. 912.  
 Type-writing machine. H. H. Steele. No. 929,258; July 27; Sp. p. 5277; Gaz. vol. 144; p. 936.  
 Type-writing machine. H. H. Steele. No. 929,259; July 27; Sp. p. 5290; Gaz. vol. 144; p. 936.  
 Type-writing machine. G. F. Ballou. No. 929,271; July 27; Sp. p. 5320; Gaz. vol. 144; p. 940.  
 Type-writing machine. J. C. McLaughlin. No. 929,621; July 27; Sp. p. 6028; Gaz. vol. 144; p. 1055.  
 Type-writing machine. J. Felbel. No. 929,664; Aug. 3; Sp. p. 39; Gaz. vol. 145; p. 9.  
 Type-writing machine. J. J. Cooper. No. 929,834; Aug. 3; Sp. p. 432; Gaz. vol. 145; p. 72.  
 Type-writing machine. H. Crutchley. No. 929,835; Aug. 3; Sp. p. 438; Gaz. vol. 145; p. 72.  
 Type-writing machine. F. J. Tanner and E. F. Griffin. No. 929,896; Aug. 3; Sp. p. 592; Gaz. vol. 145; p. 93.  
 Type-writing machine. C. Gabrielson. No. 929,933; Aug. 3; Sp. p. 663; Gaz. vol. 145; p. 105.  
 Type-writing machine. A. F. Smith. No. 930,499; Aug. 10; Sp. p. 1758; Gaz. vol. 145; p. 317.  
 Type-writing machine. A. W. Steiger. No. 930,500; Aug. 10; Sp. p. 1763; Gaz. vol. 145; p. 318.  
 Type-writing machine. H. H. Steele. No. 930,571; Aug. 10; Sp. p. 1947; Gaz. vol. 145; p. 344.  
 Type-writing machine. A. W. Smith. No. 930,625; Aug. 10; Sp. p. 2064; Gaz. vol. 145; p. 361.  
 Type-writing machine. D. Briggs. No. 930,642; Aug. 10; Sp. p. 2099; Gaz. vol. 145; p. 366.  
 Type-writing machine. J. J. Cooper. No. 930,730; Aug. 10; Sp. p. 2273; Gaz. vol. 145; p. 395.  
 Type-writing machine. J. J. Cooper. No. 930,731; Aug. 10; Sp. p. 2276; Gaz. vol. 145; p. 396.  
 Type-writing machine. W. F. Helmond. No. 930,962; Aug. 10; Sp. p. 2769; Gaz. vol. 145; p. 470.  
 Type-writing machine. W. F. Helmond. No. 931,303; Aug. 17; Sp. p. 3567; Gaz. vol. 145; p. 616.  
 Type-writing machine. J. J. Cooper. No. 931,680; Aug. 17; Sp. p. 4309; Gaz. vol. 145; p. 736.  
 Type-writing machine. J. C. Doane. No. 931,688; Aug. 17; Sp. p. 4327; Gaz. vol. 145; p. 739.  
 Type-writing machine. C. Roderick. No. 932,176; Aug. 24; Sp. p. 5416; Gaz. vol. 145; p. 924.  
 Type-writing machine. L. C. Myers. No. 932,307; Aug. 24; Sp. p. 5670; Gaz. vol. 145; p. 967.  
 Type-writing machine. C. H. Shepard. No. 932,644; Aug. 31; Sp. p. 6391; Gaz. vol. 145; p. 1103.  
 Type-writing machine. C. B. Yaw. No. 932,664; Aug. 31; Sp. p. 6431; Gaz. vol. 145; p. 1110.  
 Type-writing machine. J. H. Barr. No. 933,048; Sept. 7; Sp. p. 7; Gaz. vol. 146; p. 4.  
 Type-writing machine. H. H. Steele. No. 933,209; Sept. 7; Sp. p. 393; Gaz. vol. 146; p. 62.  
 Type-writing machine. O. Woodward. No. 933,219; Sept. 7; Sp. p. 425; Gaz. vol. 146; p. 66.  
 Type-writing machine. C. H. Shepard. No. 934,100; Sept. 14; Sp. p. 2306; Gaz. vol. 146; p. 378.  
 Type-writing machine. C. B. Yaw. No. 934,124; Sept. 14; Sp. p. 2357; Gaz. vol. 146; p. 388.  
 Type-writing machine. J. C. Doane. No. 934,431; Sept. 21; Sp. p. 2952; Gaz. vol. 146; p. 515.  
 Type-writing machine. E. E. Barney. No. 935,575; Sept. 28; Sp. p. 5245; Gaz. vol. 146; p. 920.  
 Type-writing machine. A. T. Brown. No. 935,776; Oct. 5; Sp. p. 342; Gaz. vol. 147; p. 52.  
 Type-writing machine. J. T. Schaaff. No. 936,044; Oct. 5; Sp. p. 933; Gaz. vol. 147; p. 141.  
 Type-writing machine. L. Sholes. No. 936,050; Oct. 5; Sp. p. 958; Gaz. vol. 147; p. 143.  
 Type-writing machine. J. F. Forkarth. No. 936,229; Oct. 5; Sp. p. 1297; Gaz. vol. 147; p. 198.  
 Type-writing machine. C. F. Ehmsen. No. 936,240; Oct. 5; Sp. p. 1316; Gaz. vol. 147; p. 202.  
 Type-writing machine. J. Felbel. No. 936,617; Oct. 12; Sp. p. 2151; Gaz. vol. 147; p. 356.  
 Type-writing machine. B. C. Stickney. No. 937,336; Oct. 19; Sp. p. 3604; Gaz. vol. 147; p. 622.  
 Type-writing machine. S. Nielsen. No. 937,382; Oct. 19; Sp. p. 3716; Gaz. vol. 147; p. 638.  
 Type-writing machine. E. H. Berry. No. 937,409; Oct. 19; Sp. p. 3789; Gaz. vol. 147; p. 646.  
 Type-writing machine. A. T. Brown. No. 937,412; Oct. 19; Sp. p. 3795; Gaz. vol. 147; p. 647.  
 Type-writing machine. A. T. Brown. No. 937,413; Oct. 19; Sp. p. 3800; Gaz. vol. 147; p. 648.  
 Type-writing machine. A. T. Brown. No. 937,414; Oct. 19; Sp. p. 3806; Gaz. vol. 147; p. 648.



*Alphabetical list of inventions—Continued.*

- Type-writing machine. A. T. Brown. No. 938,119; Oct. 26; Sp. p. 5263; Gaz. vol. 147; p. 902.  
 Type-writing machine. A. W. Steiger. No. 938,178; Oct. 26; Sp. p. 5401; Gaz. vol. 147; p. 923.  
 Type-writing machine. F. J. Tanner and I. E. Jones. No. 938,350; Oct. 26; Sp. p. 5768; Gaz. vol. 147; p. 981.  
 Type-writing machine. J. B. Secor. No. 938,439; Oct. 26; Sp. p. 5975; Gaz. vol. 147; p. 1013.  
 Type-writing machine. L. D. Broughton. No. 938,454; Oct. 26; Sp. p. 6029; Gaz. vol. 147; p. 1018.  
 Type-writing machine. J. A. Hagerstrom. No. 938,480; Nov. 2; Sp. p. 59; Gaz. vol. 148; p. 11.  
 Type-writing machine. L. C. Myers. No. 938,500; Nov. 2; Sp. p. 116; Gaz. vol. 148; p. 19.  
 Type-writing machine. E. L. Pfunder. No. 938,507; Nov. 2; Sp. p. 130; Gaz. vol. 148; p. 21.  
 Type-writing machine. J. Felbel. No. 938,562; Nov. 2; Sp. p. 274; Gaz. vol. 148; p. 41.  
 Type-writing machine. J. H. O'Brien. No. 938,690; Nov. 2; Sp. p. 538; Gaz. vol. 148; p. 83.  
 Type-writing machine. C. B. Yaw. No. 939,579; Nov. 9; Sp. p. 2500; Gaz. vol. 148; p. 414.  
 Type-writing machine. E. E. Barney. No. 939,583; Nov. 9; Sp. p. 2512; Gaz. vol. 148; p. 415.  
 Type-writing machine. A. T. Brown. No. 939,587; Nov. 9; Sp. p. 2523; Gaz. vol. 148; p. 416.  
 Type-writing machine. O. L. Ingram. No. 940,322; Nov. 16; Sp. p. 4162; Gaz. vol. 148; p. 702.  
 Type-writing machine. C. S. Labofish. No. 940,332; Nov. 16; Sp. p. 4185; Gaz. vol. 148; p. 706.  
 Type-writing machine. C. C. Robbins. No. 940,363; Nov. 16; Sp. p. 4250; Gaz. vol. 148; p. 717.  
 Type-writing machine. H. R. White. No. 940,765; Nov. 23; Sp. p. 5153; Gaz. vol. 148; p. 876.  
 Type-writing machine. O. Woodward. No. 941,120; Nov. 23; Sp. p. 5897; Gaz. vol. 148; p. 993.  
 Type-writing machine. C. B. Yaw. No. 941,122; Nov. 23; Sp. p. 5904; Gaz. vol. 148; p. 994.  
 Type-writing machine. J. C. McLaughlin. No. 941,166; Nov. 23; Sp. p. 6006; Gaz. vol. 148; p. 1010.  
 Type-writing machine. A. G. Snyder. No. 942,109; Dec. 7; Sp. p. 164; Gaz. vol. 149; p. 26.  
 Type-writing machine. A. W. Steiger. No. 942,113; Dec. 7; Sp. p. 181; Gaz. vol. 149; p. 27.  
 Type-writing machine. J. Felbel. No. 942,137; Dec. 7; Sp. p. 241; Gaz. vol. 149; p. 37.  
 Type-writing machine. E. E. Barney. No. 942,535; Dec. 7; Sp. p. 1063; Gaz. vol. 149; p. 172.  
 Type-writing machine. H. Crutchley. No. 942,776; Dec. 7; Sp. p. 1540; Gaz. vol. 149; p. 252.  
 Type-writing machine. J. H. Barr. No. 942,853; Dec. 7; Sp. p. 1710; Gaz. vol. 149; p. 277.  
 Type-writing machine. T. J. Coe. No. 943,141; Dec. 14; Sp. p. 2403; Gaz. vol. 149; p. 408.  
 Type-writing machine. H. G. McCool. No. 943,444; Dec. 14; Sp. p. 3020; Gaz. vol. 149; p. 510.  
 Type-writing machine. H. S. McCormack. No. 943,445; Dec. 14; Sp. p. 3029; Gaz. vol. 149; p. 510.  
 Type-writing machine. J. H. Barr. No. 943,643; Dec. 21; Sp. p. 3497; Gaz. vol. 149; p. 609.  
 Type-writing machine. W. J. Barron and H. V. Merritt. No. 943,644; Dec. 21; Sp. p. 3499; Gaz. vol. 149; p. 610.  
 Type-writing machine. A. J. Briggs. No. 944,229; Dec. 21; Sp. p. 4694; Gaz. vol. 149; p. 804.  
 Type-writing machine. C. B. Yaw. No. 944,303; Dec. 28; Sp. p. 4868; Gaz. vol. 149; p. 858.  
 Type-writing machine. A. T. Brown. No. 944,596; Dec. 28; Sp. p. 5543; Gaz. vol. 149; p. 961.  
 Type-writing machine. C. D. Rice. No. 944,746; Dec. 28; Sp. p. 5871; Gaz. vol. 149; p. 1011.  
 Type-writing-machine adjusting appliance. C. S. Alverson. No. 941,294; Nov. 23; Sp. p. 6289; Gaz. vol. 148; p. 1052.  
 Type-writing-machine calculating attachment. F. J. Tillman. No. 913,859; Mar. 2; Sp. p. 379; Gaz. vol. 140; p. 64.  
 Type-writing-machine calculating attachment. F. J. Tillman. No. 933,600; Sept. 7; Sp. p. 1304; Gaz. vol. 146; p. 194.  
 Type-writing-machine clamp. E. E. Barney. No. 942,049; Dec. 7; Sp. p. 10; Gaz. vol. 149; p. 4.  
 Type-writing-machine duplicating attachment. A. G. Sherwood. No. 925,140; June 15; Sp. p. 4356; Gaz. vol. 143; p. 743.  
 Type-writing-machine erasing device. G. K. Andrews. No. 924,215; June 8; Sp. p. 2464; Gaz. vol. 143; p. 400.  
 Type-writing-machine escapement mechanism. A. Schneeloch. No. 944,697; Dec. 28; Sp. p. 5746; Gaz. vol. 149; p. 995.  
 Type-writing-machine escapement mechanism. E. G. Latta. No. 944,794; Dec. 28; Sp. p. 5956; Gaz. vol. 149; p. 1027.  
 Type-writing-machine indicator attachment. A. H. Partridge. No. 909,656; Jan. 12; Sp. p. 2465; Gaz. vol. 138; p. 437.  
 Type-writing-machine line-spacing mechanism. E. G. Latta. No. 926,126; June 29; Sp. p. 6356; Gaz. vol. 143; p. 1129.  
 Type-writing-machine line-spacing mechanism. O. C. Kavle. No. 926,572; June 29; Sp. p. 7222; Gaz. vol. 143; p. 1277.  
 Type-writing-machine line-spacing mechanism. J. W. Kennedy. No. 929,137; July 27; Sp. p. 5047; Gaz. vol. 144; p. 896.  
 Type-writing-machine manifold platen. E. Z. Lewis. No. 937,374; Oct. 19; Sp. p. 3694; Gaz. vol. 147; p. 635.  
 Type-writing-machine margin-indicating device. C. E. McNamara. No. 921,726; May 18; Sp. p. 3366; Gaz. vol. 142; p. 599.  
 Type-writing-machine ribbon mechanism. O. C. Kavle. No. 933,181; Sept. 7; Sp. p. 311; Gaz. vol. 146; p. 51.  
 Type-writing-machine ribbon mechanism. E. G. Latta. No. 933,186; Sept. 7; Sp. p. 325; Gaz. vol. 146; p. 53.  
 Type-writing-machine ribbon mechanism. E. G. Latta. No. 933,652; Sept. 7; Sp. p. 1392; Gaz. vol. 146; p. 210.  
 Type-writing-machine ribbon mechanism. S. B. Post. No. 936,033; Oct. 5; Sp. p. 914; Gaz. vol. 147; p. 138.  
 Type-writing-machine ribbon mechanism. O. C. Kavle. No. 944,734; Dec. 28; Sp. p. 5823; Gaz. vol. 149; p. 1007.  
 Type-writing-machine ribbon mechanism. E. G. Latta. No. 944,735; Dec. 28; Sp. p. 5830; Gaz. vol. 149; p. 1008.  
 Type-writing-machine ribbon-reversing mechanism. Automatic. G. M. Kitzmiller. No. 942,383; Dec. 7; Sp. p. 729; Gaz. vol. 149; p. 119.  
 Type-writing-machine ribbon-revol. G. A. Seib. No. 927,604; July 13; Sp. p. 1864; Gaz. vol. 144; p. 329.  
 Type-writing-machine tabulating device. F. J. Tanner. No. 912,508; Feb. 16; Sp. p. 3054; Gaz. vol. 139; p. 552.  
 Type-writing-machine tabulating mechanism. B. M. Des Jardins. No. 926,716; June 29; Sp. p. 7526; Gaz. vol. 143; p. 1325.  
 Type-writing-machine type-cleaner. A. D. Sperry. No. 920,205; May 4; Sp. p. 231; Gaz. vol. 142; p. 36.  
 Type-writing machines, Decimal-spacing mechanism for. C. F. Laganke and J. A. Smith. No. 922,601; May 25; Sp. p. 5154; Gaz. vol. 142; p. 914.  
 Type-writing machines, Paper-directing attachment for. B. P. Gibbs. No. 925,576; June 22; Sp. p. 5189; Gaz. vol. 143; p. 913.  
 Type-writing machines, Paper-feed for front-strike. W. R. Fox. No. 912,660; Feb. 16; Sp. p. 3371; Gaz. vol. 139; p. 605.  
 Type-writing machines, Ribbon-oscillator for visible. W. R. Fox. No. 931,855; Aug. 24; Sp. p. 4720; Gaz. vol. 145; p. 817.  
 Type-writing machines, Variable carriage-feed for. J. A. Smith. No. 922,534; May 25; Sp. p. 5018; Gaz. vol. 142; p. 892.  
 Type-written documents, Method and apparatus for duplicating. M. Soblik. No. 914,464; Mar. 9; Sp. p. 1709; Gaz. vol. 140; p. 293.  
 Types and type-bars, Machine for making. F. H. Richards. No. 940,277; Nov. 16; Sp. p. 4051; Gaz. vol. 148; p. 688.  
 Types and type-bars, Making. F. H. Richards. No. 919,215; Apr. 20; Sp. p. 4639; Gaz. vol. 141; p. 810.  
 Types and type-bars, Making. F. H. Richards. No. 919,216; Apr. 20; Sp. p. 4648; Gaz. vol. 141; p. 810.  
 Types and type-bars, Making. F. H. Richards. No. 919,217; Apr. 20; Sp. p. 4654; Gaz. vol. 141; p. 810.  
 Types and type-bars, Making. F. H. Richards. No. 919,218; Apr. 20; Sp. p. 4661; Gaz. vol. 141; p. 811.  
 Types and type-bars, Making. F. H. Richards. No. 919,219; Apr. 20; Sp. p. 4671; Gaz. vol. 141; p. 811.  
 Types and type-bars, Making. F. H. Richards. No. 919,220; Apr. 20; Sp. p. 4679; Gaz. vol. 141; p. 812.  
 Types and type-bars, Making. F. H. Richards. No. 919,223; Apr. 20; Sp. p. 4705; Gaz. vol. 141; p. 813.  
 Types and type-bars, Making. F. H. Richards. No. 919,224; Apr. 20; Sp. p. 4718; Gaz. vol. 141; p. 813.  
 Types and type-bars, Making. F. H. Richards. No. 919,226; Apr. 20; Sp. p. 4734; Gaz. vol. 141; p. 814.  
 Types and type-bars, Making. F. H. Richards. No. 919,230; Apr. 20; Sp. p. 4789; Gaz. vol. 141; p. 815.  
 Types and type-bars, Making. F. H. Richards. No. 919,231; Apr. 20; Sp. p. 4796; Gaz. vol. 141; p. 815.  
 Types and type-bars, Making. F. H. Richards. No. 919,232; Apr. 20; Sp. p. 4804; Gaz. vol. 141; p. 816.  
 Types and type-bars, Making. F. H. Richards. No. 919,237; Apr. 20; Sp. p. 4828; Gaz. vol. 141; p. 817.  
 Types and type-bars, Making. F. H. Richards. No. 919,241; Apr. 20; Sp. p. 4855; Gaz. vol. 141; p. 819.  
 Typograph apparatus. C. F. Blackledge. No. 943,614; Dec. 14; Sp. p. 3412; Gaz. vol. 149; p. 569.  
 Typographic composing-machines equipped with alternate fonts, Assembling mechanism of. F. J. Wich. No. 926,158; June 29; Sp. p. 6433; Gaz. vol. 143; p. 1141.  
 Typographic form. F. H. Richards. No. 927,598; July 13; Sp. p. 1852; Gaz. vol. 144; p. 327.  
 Typographic forms, Mechanism for making. F. H. Richards. No. 927,597; July 13; Sp. p. 1846; Gaz. vol. 144; p. 327.  
 Typographic machine. F. H. Richards. No. 911,681; Feb. 9; Sp. p. 1312; Gaz. vol. 139; p. 245.  
 Typographic machine. F. H. Richards. No. 916,488; Mar. 30; Sp. p. 5749; Gaz. vol. 140; p. 1038.  
 Typographic machine. F. H. Richards. No. 916,782; Mar. 30; Sp. p. 6306; Gaz. vol. 140; p. 1128.  
 Typographic machine. F. H. Richards. No. 919,221; Apr. 20; Sp. p. 4691; Gaz. vol. 141; p. 812.  
 Typographic machine. B. A. Brooks. No. 933,058; Sept. 7; Sp. p. 38; Gaz. vol. 146; p. 8.  
 Typographic-machine feed mechanism. F. H. Richards. No. 919,225; Apr. 20; Sp. p. 4728; Gaz. vol. 141; p. 813.  
 Typographic-machine key mechanism. F. H. Richards. No. 913,306; Feb. 23; Sp. p. 4704; Gaz. vol. 139; p. 844.  
 Typographic-machine key mechanism. F. H. Richards. No. 913,307; Feb. 23; Sp. p. 4712; Gaz. vol. 139; p. 845.  
 Typographic machine or machine of like character. O. Mergenthaler. No. 940,071; Nov. 16; Sp. p. 3597; Gaz. vol. 148; p. 615.  
 Typographic machines, Keyboard mechanism of. H. Pearce. No. 941,383; Nov. 30; Sp. p. 6482; Gaz. vol. 148; p. 1103.  
 Ultramarines, Manufacture of. F. Bellet. No. 938,408; Oct. 26; Sp. p. 5906; Gaz. vol. 147; p. 1002.  
 Umbrella. W. H. Taylor. No. 910,095; Jan. 19; Sp. p. 3347; Gaz. vol. 138; p. 616.  
 Umbrella. S. Perpich. No. 912,163; Feb. 9; Sp. p. 2314; Gaz. vol. 139; p. 401.  
 Umbrella. M. N. Thayer. No. 912,206; Feb. 9; Sp. p. 2396; Gaz. vol. 139; p. 413.



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 Umbrella. J. J. Henning. No. 915,958; Mar. 23; Sp. p. 4722; Gaz. vol. 140; p. 838.  
 Umbrella. J. P. Czapiewski. No. 918,015; Apr. 13; Sp. p. 2149; Gaz. vol. 141; p. 387.  
 Umbrella. J. A. Eberle. No. 918,830; Apr. 20; Sp. p. 3891; Gaz. vol. 141; p. 686.  
 Umbrella. J. Beaudry. No. 923,130; June 1; Sp. p. 1; Gaz. vol. 143; p. 3.  
 Umbrella. J. Beaudry. No. 924,530; June 8; Sp. p. 3079; Gaz. vol. 143; p. 503.  
 Umbrella. L. Sheridan. No. 925,043; June 15; Sp. p. 4179; Gaz. vol. 143; p. 711.  
 Umbrella. Z. F. Dunlap. No. 928,113; July 13; Sp. p. 2908; Gaz. vol. 144; p. 496.  
 Umbrella. J. J. Bardon. No. 928,169; July 13; Sp. p. 3020; Gaz. vol. 144; p. 516.  
 Umbrella. T. W. Black and J. James. No. 929,117; July 27; Sp. p. 5001; Gaz. vol. 144; p. 890.  
 Umbrella. E. C. Kuhn. No. 934,444; Sept. 21; Sp. p. 2980; Gaz. vol. 146; p. 519.  
 Umbrella. W. H. Edwards. No. 937,583; Oct. 19; Sp. p. 4152; Gaz. vol. 147; p. 706.  
 Umbrella and parasol notch or runner-head. J. B. Riehl. No. 919,954; Apr. 27; Sp. p. 6401; Gaz. vol. 141; p. 1093.  
 Umbrella and the like. A. Friedlaender. No. 943,068; Dec. 14; Sp. p. 2261; Gaz. vol. 149; p. 383.  
 Umbrella attachment. C. Frebe. No. 920,314; May 4; Sp. p. 467; Gaz. vol. 142; p. 72.  
 Umbrella attachment. J. M. L. Groby. No. 926,483; June 29; Sp. p. 7069; Gaz. vol. 143; p. 1246.  
 Umbrella braces and ribs, Hinge for. H. L. Johnston. No. 926,256; June 29; Sp. p. 6643; Gaz. vol. 143; p. 1173.  
 Umbrella drip-cup, Detachable. R. Winkelman. No. 927,914; July 13; Sp. p. 2538; Gaz. vol. 144; p. 452.  
 Umbrella-fitting. A. Ackermann. No. 934,588; Sept. 21; Sp. p. 3249; Gaz. vol. 146; p. 566.  
 Umbrella, Foldable. W. H. R. Umstead. No. 920,505; May 4; Sp. p. 832; Gaz. vol. 142; p. 134.  
 Umbrella, Foldable. J. W. Babbitt. No. 929,536; July 27; Sp. p. 5846; Gaz. vol. 144; p. 1027.  
 Umbrella, Foldable. A. M. Morton. No. 940,346; Nov. 16; Sp. p. 4217; Gaz. vol. 148; p. 711.  
 Umbrella, Folding. A. Daun. No. 910,462; Jan. 19; Sp. p. 4174; Gaz. vol. 138; p. 744.  
 Umbrella, Folding. R. G. Whitlock. No. 911,636; Feb. 9; Sp. p. 1215; Gaz. vol. 139; p. 230.  
 Umbrella, Folding. C. Jesdale and L. G. Wellde. No. 911,728; Feb. 9; Sp. p. 1399; Gaz. vol. 139; p. 261.  
 Umbrella, Folding. R. Greenwood. No. 912,841; Feb. 16; Sp. p. 3788; Gaz. vol. 139; p. 666.  
 Umbrella, Folding. J. H. Schutte. No. 920,400; May 4; Sp. p. 630; Gaz. vol. 142; p. 101.  
 Umbrella, Folding. A. Loukota. No. 922,925; May 25; Sp. p. 5843; Gaz. vol. 142; p. 1019.  
 Umbrella, Folding. J. Charlesworth. No. 928,426; July 20; Sp. p. 3588; Gaz. vol. 144; p. 634.  
 Umbrella, Folding. J. Rose. No. 929,497; July 27; Sp. p. 5781; Gaz. vol. 144; p. 1014.  
 Umbrella, Folding. P. L. Page. No. 931,079; Aug. 17; Sp. p. 3071; Gaz. vol. 145; p. 538.  
 Umbrella, Folding. K. S. Hummer. No. 934,177; Sept. 14; Sp. p. 2465; Gaz. vol. 146; p. 406.  
 Umbrella, Folding. E. T. and E. H. Crane. No. 934,506; Sept. 21; Sp. p. 3095; Gaz. vol. 146; p. 540.  
 Umbrella, Folding. W. Bowman. No. 935,836; Oct. 5; Sp. p. 504; Gaz. vol. 147; p. 72.  
 Umbrella, Folding. J. T. Manning. No. 938,007; Oct. 26; Sp. p. 5022; Gaz. vol. 147; p. 865.  
 Umbrella, Folding. J. Edmondson. No. 938,833; Nov. 2; Sp. p. 828; Gaz. vol. 148; p. 133.  
 Umbrella, Folding. X. J. Zoller. No. 939,842; Nov. 9; Sp. p. 3061; Gaz. vol. 148; p. 505.  
 Umbrella, Folding. J. Casale. No. 941,615; Nov. 30; Sp. p. 6967; Gaz. vol. 148; p. 1178.  
 Umbrella for use as a boat. S. Ettinger. No. 927,341; July 6; Sp. p. 1285; Gaz. vol. 144; p. 212.  
 Umbrella-frame. J. Rose. No. 912,491; Feb. 16; Sp. p. 3024; Gaz. vol. 139; p. 547.  
 Umbrella-frame. J. Rose. No. 929,498; July 27; Sp. p. 5783; Gaz. vol. 144; p. 1014.  
 Umbrella-frame. E. C. Beecher. No. 938,950; Nov. 2; Sp. p. 1096; Gaz. vol. 148; p. 174.  
 Umbrella-geat. S. S. Fretz. No. 932,012; Aug. 24; Sp. p. 5083; Gaz. vol. 145; p. 869.  
 Umbrella-handle and receptacle, Combined. J. Stern. No. 921,023; May 11; Sp. p. 1891; Gaz. vol. 142; p. 335.  
 Umbrella-holder lock. J. C. Backus. No. 913,188; Feb. 23; Sp. p. 4466; Gaz. vol. 139; p. 805.  
 Umbrella-lock. R. E. Adams. No. 931,550; Aug. 17; Sp. p. 4041; Gaz. vol. 145; p. 696.  
 Umbrella-notch. F. A. Smith. No. 911,169; Feb. 2; Sp. p. 289; Gaz. vol. 139; p. 51.  
 Umbrella-rib socket. C. Hoff. No. 938,863; Nov. 2; Sp. p. 884; Gaz. vol. 148; p. 142.  
 Umbrella-rib tip. H. L. Johnston. No. 926,255; June 29; Sp. p. 6647; Gaz. vol. 143; p. 1173.  
 Umbrella-runner, Ball-and-socket. C. L. Baker. No. 924,627; June 15; Sp. p. 3308; Gaz. vol. 143; p. 569.  
 Umbrella, Stick-. R. Genck. No. 919,567; Apr. 27; Sp. p. 5613; Gaz. vol. 141; p. 964.  
 Umbrella-sticks, Machine for securing notches to. J. B. Riehl. No. 936,166; Oct. 5; Sp. p. 1184; Gaz. vol. 147; p. 180.  
 Umbrella-supporting device. A. E. Shuster. No. 921,900; May 18; Sp. p. 3726; Gaz. vol. 142; p. 636.  
 Umbrella-window. G. R. Livergood. No. 928,774; July 20; Sp. p. 4291; Gaz. vol. 144; p. 748.  
 Umbrellas and parasols, Securing notches to sticks of. J. B. Riehl. No. 941,952; Nov. 30; Sp. p. 7687; Gaz. vol. 148; p. 1295.  
 Umbrellas and the like, Locking device for. W. L. Sperring and G. R. Pride. No. 934,228; Sept. 14; Sp. p. 2562; Gaz. vol. 146; p. 423.  
 Uncapping-tool. A. Rydquist. No. 928,156; July 13; Sp. p. 2991; Gaz. vol. 144; p. 511.  
 Undergarment. M. S. Heber. No. 920,325; May 4; Sp. p. 433; Gaz. vol. 142; p. 75.  
 Undergarment. R. M. Sidey. No. 931,151; Aug. 17; Sp. p. 3229; Gaz. vol. 145; p. 563.  
 Underreamer. C. T. Mapes. No. 923,677; June 1; Sp. p. 1244; Gaz. vol. 143; p. 192.  
 Underreamer. A. G. Hegern. No. 926,562; June 29; Sp. p. 7202; Gaz. vol. 143; p. 1274.  
 Underreamer. F. W. Ritter, Jr. No. 926,608; June 29; Sp. p. 7305; Gaz. vol. 143; p. 1289.  
 Underreamer. J. W. Brackney. No. 932,533; Aug. 31; Sp. p. 6137; Gaz. vol. 145; p. 1065.  
 Undershirt and similar garment. M. Saldin. No. 910,418; Jan. 19; Sp. p. 4063; Gaz. vol. 138; p. 728.  
 Undertaker's lifting-strap. J. P. Huber. No. 941,072; Nov. 23; Sp. p. 5800; Gaz. vol. 148; p. 978.  
 Underwear. F. F. Lewis. No. 935,158; Sept. 28; Sp. p. 4392; Gaz. vol. 146; p. 784.  
 Unhitching device. J. Lusk. No. 909,005; Jan. 5; Sp. p. 1180; Gaz. vol. 138; p. 188.  
 Union or combination suit. F. Guethoff. No. 915,594; Mar. 16; Sp. p. 3997; Gaz. vol. 140; p. 690.  
 Union suit. J. E. Richards. (Reissue.) No. 13,046; Nov. 23; Sp. p. 6408; Gaz. vol. 148; p. 1071.  
 Unit switch, Multiple-. H. W. Cheney. No. 912,542; Feb. 16; Sp. p. 3145; Gaz. vol. 139; p. 564.  
 Universal coupling. G. W. McClintock. No. 915,690; Mar. 16; Sp. p. 4210; Gaz. vol. 140; p. 726.  
 Universal joint. J. Elkan. No. 912,096; Feb. 9; Sp. p. 2199; Gaz. vol. 139; p. 380.  
 Universal joint. C. W. Spicer. No. 919,651; Apr. 27; Sp. p. 5777; Gaz. vol. 141; p. 993.  
 Universal joint. B. O. Rhodes. No. 923,443; June 1; Sp. p. 748; Gaz. vol. 143; p. 110.  
 Universal joint. H. Vanderbeek. No. 927,087; July 6; Sp. p. 822; Gaz. vol. 144; p. 131.  
 Universal joint. D. Corcoran. No. 934,140; Sept. 14; Sp. p. 2402; Gaz. vol. 146; p. 393.  
 Universal joint. W. C. Lipe. No. 942,087; Dec. 7; Sp. p. 110; Gaz. vol. 149; p. 18.  
 Universal-joint and four-wheel drive. A. H. Fetzer. No. 930,852; Aug. 10; Sp. p. 2526; Gaz. vol. 145; p. 436.  
 Universal-joint device. J. Simon. No. 943,573; Dec. 14; Sp. p. 3290; Gaz. vol. 149; p. 555.  
 Universal support. J. F. Snow. No. 910,429; Jan. 19; Sp. p. 4085; Gaz. vol. 138; p. 732.  
 Unloading device. J. Tribe. No. 915,319; Mar. 16; Sp. p. 3434; Gaz. vol. 140; p. 599.  
 Unloading device. J. Tribe. No. 923,607; June 1; Sp. p. 1117; Gaz. vol. 143; p. 170.  
 Unloading device. J. Tribe. No. 923,608; June 1; Sp. p. 1118; Gaz. vol. 143; p. 170.  
 Unloading device, Shiftable instantaneous. J. Herks. No. 940,811; Nov. 23; Sp. p. 5256; Gaz. vol. 148; p. 892.  
 Updraft-furnace. O. D. Orvis. No. 929,624; July 27; Sp. p. 6033; Gaz. vol. 144; p. 1056.  
 Upholstering attachment. H. G. Westmore. No. 931,106; Aug. 17; Sp. p. 3117; Gaz. vol. 145; p. 546.  
 Upholstering device. W. J. Dickson. No. 916,120; Mar. 23; Sp. p. 5030; Gaz. vol. 140; p. 891.  
 Upholstering device. F. H. Hampton, G. A. Franz, and W. R. Smith. No. 916,700; Mar. 30; Sp. p. 6173; Gaz. vol. 140; p. 1106.  
 Upholstering-machine. I. Karpen. No. 931,313; Aug. 17; Sp. p. 3593; Gaz. vol. 145; p. 619.  
 Upholstery-pads, Machine for manufacturing. E. M. Hulse. No. 926,331; June 29; Sp. p. 6803; Gaz. vol. 143; p. 1197.  
 Urinal. O. C. G. Brettell and J. F. Bailey. No. 935,890; Oct. 5; Sp. p. 623; Gaz. vol. 147; p. 90.  
 Urinal. M. L. Sherman. No. 940,077; Nov. 16; Sp. p. 3620; Gaz. vol. 148; p. 617.  
 Urinal, Female. M. M. Van Vechten. No. 940,756; Nov. 23; Sp. p. 5129; Gaz. vol. 148; p. 873.  
 Urinal-ventilator. A. J. Cheney. No. 931,268; Aug. 17; Sp. p. 3489; Gaz. vol. 145; p. 604.  
 Urinal, Wall-. D. A. Ebinger. No. 921,096; May 11; Sp. p. 2051; Gaz. vol. 142; p. 360.  
 Utensil-cleaner. A. Silverglade. No. 908,509; Jan. 5; Sp. p. 154; Gaz. vol. 138; p. 28.  
 Utensil-handle. D. C. Howard. No. 921,404; May 11; Sp. p. 2702; Gaz. vol. 142; p. 464.  
 Vacuum-cleaner. T. Wiedemann and J. H. Templin. No. 939,117; Nov. 2; Sp. p. 1414; Gaz. vol. 148; p. 230.  
 Vacuum-cleaner. I. L. Green. No. 941,675; Nov. 30; Sp. p. 7091; Gaz. vol. 148; p. 1198.  
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 Vacuum-cleaner, Portable. C. F. Barrett. No. 930,125; Aug. 3; Sp. p. 1064; Gaz. vol. 145; p. 171.  
 Vacuum cleaning apparatus. J. F. Lacoec. No. 943,424; Dec. 14; Sp. p. 2975; Gaz. vol. 149; p. 502.  
 Vacuum cleaning apparatus, Separating-tank for. D. Fogarty. No. 940,142; Nov. 16; Sp. p. 3758; Gaz. vol. 148; p. 640.  
 Vacuum cleaning systems, Handpiece for. C. R. Green. No. 942,139; Dec. 7; Sp. p. 249; Gaz. vol. 149; p. 37.  
 Vacuum-gage. H. W. Maurer. No. 914,666; Mar. 9; Sp. p. 2112; Gaz. vol. 140; p. 359.  
 Vacuum-gage, Mercury. A. B. Hohmann. No. 913,010; Feb. 23; Sp. p. 4110; Gaz. vol. 139; p. 746.  
 Vacuum-jacket indicator. J. L. Fate. No. 932,008; Aug. 24; Sp. p. 5078; Gaz. vol. 145; p. 865.  
 Vacuum-jackets, Sealing. J. L. Fate. No. 930,950; Aug. 10; Sp. p. 2749; Gaz. vol. 145; p. 467.  
 Vacuum-pan for evaporating apparatus. G. R. Ray. No. 920,997; May 11; Sp. p. 1839; Gaz. vol. 142; p. 326.  
 Vacuum-tubes, Automatic gas-feed for. D. M. Moore. No. 930,404; Aug. 10; Sp. p. 1576; Gaz. vol. 145; p. 285.  
 Vacuum vessels, Making double-walled. R. Burger. No. 918,503; Apr. 20; Sp. p. 3145; Gaz. vol. 141; p. 577.  
 Valise. S. P. S. Patch. No. 909,325; Jan. 12; Sp. p. 1823; Gaz. vol. 135; p. 327.  
 Valises and bags, Auxiliary handle for. C. M. Shaw. No. 910,238; Jan. 19; Sp. p. 3602; Gaz. vol. 138; p. 665.  
 Valve. J. R. Dolph. No. 908,759; Jan. 5; Sp. p. 702; Gaz. vol. 138; p. 109.  
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 Valve. G. W. Shields and B. Webster. No. 911,546; Feb. 2; Sp. p. 992; Gaz. vol. 139; p. 173.  
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 Valve. E. H. Gold. No. 914,407; Mar. 9; Sp. p. 1610; Gaz. vol. 140; p. 274.  
 Valve. F. Schreidt. No. 914,886; Mar. 9; Sp. p. 2589; Gaz. vol. 140; p. 432.  
 Valve. N. C. Waltherthum. No. 914,902; Mar. 9; Sp. p. 2614; Gaz. vol. 140; p. 437.  
 Valve. N. C. Bassett. No. 915,263; Mar. 16; Sp. p. 3326; Gaz. vol. 140; p. 581.  
 Valve. F. C. Blanchard and P. G. Darling. No. 915,544; Mar. 16; Sp. p. 3884; Gaz. vol. 140; p. 673.  
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 Valve. M. Warren. No. 916,642; Mar. 30; Sp. p. 6065; Gaz. vol. 140; p. 1087.  
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 Valve. H. B. Marlin. No. 917,333; Apr. 6; Sp. p. 775; Gaz. vol. 141; p. 132.  
 Valve. C. J. Siddall. No. 917,498; Apr. 6; Sp. p. 1057; Gaz. vol. 141; p. 185.  
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 Valve. T. W. Demarest. No. 921,209; May 11; Sp. p. 2279; Gaz. vol. 142; p. 400.  
 Valve. P. E. Goehle, Sr. No. 921,230; May 11; Sp. p. 2323; Gaz. vol. 142; p. 409.  
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 Valve. J. P. Lavigne. No. 929,606; July 27; Sp. p. 5999; Gaz. vol. 144; p. 1050.  
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 Valve. H. F. Thompson. No. 933,863; Sept. 14; Sp. p. 1841; Gaz. vol. 146; p. 304.  
 Valve. W. I. Bell. No. 934,131; Sept. 14; Sp. p. 2384; Gaz. vol. 146; p. 390.  
 Valve. W. Cole. No. 934,286; Sept. 14; Sp. p. 2665; Gaz. vol. 146; p. 442.  
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 Valve. L. G. McCorry. No. 935,044; Sept. 28; Sp. p. 4159; Gaz. vol. 146; p. 745.  
 Valve. J. L. Judge. No. 935,112; Sept. 28; Sp. p. 4317; Gaz. vol. 146; p. 770.  
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 Valve. S. S. Caskey. No. 944,598; Dec. 28; Sp. p. 5550; Gaz. vol. 149; p. 962.  
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 Valve-actuating mechanism. G. B. Petsche. No. 925,836; June 22; Sp. p. 5771; Gaz. vol. 143; p. 999.  
 Valve-actuating mechanism for explosive-engines. A. Winton and H. B. Anderson. No. 919,104; Apr. 20; Sp. p. 4430; Gaz. vol. 141; p. 774.  
 Valve actuator and indicator. F. H. C. Mey. No. 924,915; June 15; Sp. p. 3908; Gaz. vol. 143; p. 667.  
 Valve, Air-. V. C. Washburn. No. 919,658; Apr. 27; Sp. p. 5806; Gaz. vol. 141; p. 996.  
 Valve, Air-. F. H. Sauer. No. 927,603; July 13; Sp. p. 1862; Gaz. vol. 144; p. 329.  
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 Valve, Air-brake safety-. O. Gibson. No. 937,991; Oct. 26; Sp. p. 4986; Gaz. vol. 147; p. 859.  
 Valve, Air-brake triple. W. M. Austin. No. 915,723; Mar. 23; Sp. p. 4285; Gaz. vol. 140; p. 763.  
 Valve, Air-control steam-. J. A. Hecks. No. 936,535; Oct. 12; Sp. p. 1979; Gaz. vol. 147; p. 326.  
 Valve, Alarm-. R. Grinnell. No. 933,173; Sept. 7; Sp. p. 286; Gaz. vol. 146; p. 48.  
 Valve, Alarm-. J. C. Meloon. No. 933,193; Sept. 7; Sp. p. 349; Gaz. vol. 146; p. 55.  
 Valve alarm attachment. R. F. Spamer. No. 912,432; Feb. 16; Sp. p. 2904; Gaz. vol. 139; p. 527.  
 Valve and chamber therefor, Water-cooled furnace-. W. R. Palmer. No. 927,378; July 6; Sp. p. 1350; Gaz. vol. 144; p. 224.  
 Valve and connection. G. P. Carroll. No. 924,964; June 15; Sp. p. 4004; Gaz. vol. 143; p. 684.  
 Valve and lubricator, Combined throttle-. E. H. Lunken. No. 910,401; Jan. 19; Sp. p. 4021; Gaz. vol. 138; p. 722.  
 Valve and lubricator, Combined throttle-. J. J. Aull. No. 910,445; Jan. 19; Sp. p. 4117; Gaz. vol. 138; p. 738.  
 Valve and other mechanism, Automatic device for operating. F. W. Waterman. No. 937,122; Oct. 19; Sp. p. 3155; Gaz. vol. 147; p. 554.  
 Valve and water seal, Combination check-. J. G. Engelhart. No. 934,297; Sept. 14; Sp. p. 2687; Gaz. vol. 146; p. 446.  
 Valve apparatus, Alternating-current electromagnetic. F. W. Newell. No. 937,634; Oct. 19; Sp. p. 4241; Gaz. vol. 147; p. 723.  
 Valve apparatus for tanks. L. A. Cornelius. No. 924,432; June 8; Sp. p. 2884; Gaz. vol. 143; p. 472.  
 Valve attachment, Radiator-. P. R. Moses. No. 919,372; Apr. 27; Sp. p. 5181; Gaz. vol. 141; p. 898.  
 Valve, Automatic. H. D. and W. B. Emmons. No. 913,817; Mar. 2; Sp. p. 289; Gaz. vol. 140; p. 49.  
 Valve, Automatic. J. B. Perkins. No. 915,624; Mar. 16; Sp. p. 4060; Gaz. vol. 140; p. 701.  
 Valve, Automatic air-. J. P. Marsh. No. 941,791; Nov. 30; Sp. p. 7349; Gaz. vol. 148; p. 1239.  
 Valve, Automatic air-brake retaining and release. D. F. Kner. No. 943,602; Dec. 14; Sp. p. 3346; Gaz. vol. 149; p. 564.  
 Valve, Automatic anticavitation and mixing. F. L. White. No. 941,596; Nov. 30; Sp. p. 6924; Gaz. vol. 148; p. 1172.  
 Valve, Automatic cut-off. J. Miller. No. 943,559; Dec. 14; Sp. p. 3266; Gaz. vol. 149; p. 550.  
 Valve, Automatic drain and check. F. M. Barton. No. 932,427; Aug. 31; Sp. p. 5910; Gaz. vol. 145; p. 1030.  
 Valve, Automatic drainage-. C. C. Peck. No. 944,816; Dec. 28; Sp. p. 6012; Gaz. vol. 149; p. 1035.  
 Valve, Automatic engine stop-. J. L. Kimball. No. 912,384; Feb. 16; Sp. p. 2804; Gaz. vol. 139; p. 511.  
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 Valve, Automatic intermittent flushing-. H. A. Kieselhorst. No. 928,459; July 20; Sp. p. 3664; Gaz. vol. 144; p. 645.  
 Valve, Automatic pipe-line suction-. H. B. Hogg. No. 922,142; May 18; Sp. p. 4204; Gaz. vol. 142; p. 735.  
 Valve, Automatic rain-spout. J. P. Olson. No. 933,918; Sept. 14; Sp. p. 1954; Gaz. vol. 146; p. 321.  
 Valve, Automatic regulating-. J. C. Smith. No. 920,677; May 4; Sp. p. 1195; Gaz. vol. 142; p. 192.  
 Valve, Automatic relief-. N. Gambino. No. 938,570; Nov. 2; Sp. p. 295; Gaz. vol. 148; p. 43.  
 Valve, Automatic retaining-. C. Martin and M. Beasley. No. 918,179; Apr. 13; Sp. p. 2462; Gaz. vol. 141; p. 441.  
 Valve, Automatic return-. T. Davis. No. 932,375; Aug. 24; Sp. p. 5793; Gaz. vol. 145; p. 989.  
 Valve, Automatic shut-off. A. T. Gries. No. 922,578; May 25; Sp. p. 5109; Gaz. vol. 142; p. 906.  
 Valve, Automatic shut-off. C. D. Miller. No. 924,257; June 8; Sp. p. 2548; Gaz. vol. 143; p. 414.  
 Valve, Automatic spring-controlled lift-. A. Beck. No. 921,348; May 11; Sp. p. 2591; Gaz. vol. 142; p. 446.  
 Valve, Automatic tank-. W. H. Parton. No. 913,554; Feb. 23; Sp. p. 5240; Gaz. vol. 139; p. 928.  
 Valve, Automatically-closing. E. Bech. No. 914,547; Mar. 9; Sp. p. 1881; Gaz. vol. 140; p. 321.  
 Valve, Automatically-closing. F. H. Goldsmith. No. 938,574; Nov. 2; Sp. p. 302; Gaz. vol. 148; p. 45.  
 Valve, Automatically-controlled gas-. G. M. Bierly. No. 933,153; Sept. 7; Sp. p. 236; Gaz. vol. 146; p. 40.  
 Valve-bag. A. M. Bates. No. 921,664; May 18; Sp. p. 3251; Gaz. vol. 142; p. 578.  
 Valve, Balance-. B. F. O'Brvant. No. 910,225; Jan. 19; Sp. p. 3632; Gaz. vol. 138; p. 660.  
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 Valve, Balance slide-. W. F. Gould. No. 912,372; Feb. 16; Sp. p. 2783; Gaz. vol. 139; p. 507.  
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 Valve, Barrel-. C. F. Terney. No. 938,288; Oct. 26; Sp. p. 5622; Gaz. vol. 147; p. 961.  
 Valve, Blow-off. W. M. Tolles. No. 911,782; Feb. 9; Sp. p. 1485; Gaz. vol. 139; p. 278.  
 Valve, Blow-off. H. Kieren. No. 913,644; Feb. 23; Sp. p. 5444; Gaz. vol. 139; p. 959.  
 Valve, Blow-off. J. Rothechild. No. 917,490; Apr. 6; Sp. p. 1045; Gaz. vol. 141; p. 183.  
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 Valve, Blow-off. J. V. Schmid. No. 937,096; Oct. 19; Sp. p. 3102; Gaz. vol. 147; p. 545.  
 Valve cage for air-brake pumps, Air-. J. Mattingly. No. 912,706; Feb. 16; Sp. p. 3488; Gaz. vol. 139; p. 622.  
 Valve-cap. F. C. Blanchard and P. G. Darling. No. 915,930; Mar. 23; Sp. p. 4671; Gaz. vol. 140; p. 828.  
 Valve, Cap-. A. E. Moorhead. No. 927,808; July 13; Sp. p. 2295; Gaz. vol. 144; p. 397.  
 Valve, Car-sprinkler. E. C. Perry. No. 942,974; Dec. 14; Sp. p. 2023; Gaz. vol. 149; p. 350.  
 Valve, Check-. C. I. Williams. No. 911,353; Feb. 2; Sp. p. 648; Gaz. vol. 139; p. 110.  
 Valve, Check-. T. A. De Vilbiss. No. 914,122; Mar. 2; Sp. p. 999; Gaz. vol. 140; p. 158.  
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 Valve, Check-. H. K. and I. Z. Kriebel. No. 934,548; Sept. 21; Sp. p. 3167; Gaz. vol. 146; p. 553.  
 Valve, Check-. R. F. Kreiter. No. 935,118; Sept. 28; Sp. p. 4325; Gaz. vol. 146; p. 772.  
 Valve, Check-. C. J. Drury. No. 937,288; Oct. 19; Sp. p. 3517; Gaz. vol. 147; p. 607.  
 Valve, Check-. H. F. Cunningham. No. 937,773; Oct. 26; Sp. p. 4541; Gaz. vol. 147; p. 787.  
 Valve, Check-. J. G. Parker. No. 943,451; Dec. 14; Sp. p. 3049; Gaz. vol. 149; p. 512.  
 Valve, Closet-. J. Ruhl. No. 910,958; Jan. 26; Sp. p. 5149; Gaz. vol. 138; p. 928.  
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- Valve, Combined emergency and throttle. J. G. Callan and W. Johnson. No. 927,943; July 13; Sp. p. 2592; Gaz. vol. 144; p. 441.
- Valve, Combined pressure-regulating and shut-off. C. D. Miller. No. 935,217; Sept. 28; Sp. p. 4510; Gaz. vol. 146; p. 802.
- Valve, Combined stop and emergency. W. Kieser. No. 922,433; May 18; Sp. p. 4795; Gaz. vol. 142; p. 830.
- Valve, Combined throttle and trip. H. O. Weldon. No. 932,525; Aug. 31; Sp. p. 6118; Gaz. vol. 145; p. 1062.
- Valve, Compressor-. N. A. Christensen. No. 914,699; Mar. 9; Sp. p. 2207; Gaz. vol. 140; p. 370.
- Valve control. L. A. Frayer. No. 913,121; Feb. 23; Sp. p. 4326; Gaz. vol. 139; p. 783.
- Valve, Controller-. J. M. Horridge. No. 930,860; Aug. 10; Sp. p. 2539; Gaz. vol. 145; p. 438.
- Valve-controller, Automatic. N. C. Locke. No. 924,680; June 15; Sp. p. 3412; Gaz. vol. 143; p. 587.
- Valve-controller, Radiator-. F. A. Simonds. No. 910,092; Jan. 19; Sp. p. 3342; Gaz. vol. 138; p. 615.
- Valve, Controlling-. E. R. Morrison, J. Riddell, and R. G. Morrison. No. 915,991; Mar. 23; Sp. p. 4795; Gaz. vol. 140; p. 848.
- Valve, Controlling-. E. Engebretson. No. 917,570; Apr. 6; Sp. p. 1187; Gaz. vol. 141; p. 208.
- Valve-controlling device. E. T. Pardee. No. 941,033; Nov. 23; Sp. p. 5720; Gaz. vol. 148; p. 965.
- Valve-controlling device, Hygrometric. W. S. Johnson. No. 924,235; June 8; Sp. p. 2503; Gaz. vol. 143; p. 407.
- Valve-controlling mechanism. P. L. Wormeley, Jr. No. 919,992; Apr. 27; Sp. p. 6468; Gaz. vol. 141; p. 1105.
- Valve-controlling mechanism, Signal-. W. V. Turner and D. M. Lewis. No. 909,717; Jan. 12; Sp. p. 2595; Gaz. vol. 138; p. 459.
- Valve cover-ring. F. C. Blanchard and P. G. Darling. No. 917,920; Apr. 13; Sp. p. 1941; Gaz. vol. 141; p. 352.
- Valve, Cut-off. J. L. Moore. No. 940,815; Nov. 23; Sp. p. 5264; Gaz. vol. 148; p. 893.
- Valve, Cylinder relief-. C. P. White. No. 933,147; Sept. 7; Sp. p. 222; Gaz. vol. 146; p. 38.
- Valve, Dash-pot. F. G. Tees. No. 911,917; Feb. 9; Sp. p. 1740; Gaz. vol. 139; p. 322.
- Valve device. C. Kroeschell. No. 913,960; Mar. 2; Sp. p. 636; Gaz. vol. 140; p. 100.
- Valve device. M. Garl. No. 924,159; June 8; Sp. p. 2321; Gaz. vol. 143; p. 381.
- Valve device. V. Bloom. No. 927,632; July 13; Sp. p. 1932; Gaz. vol. 144; p. 339.
- Valve device. J. McGillivray. No. 929,238; July 27; Sp. p. 5245; Gaz. vol. 144; p. 929.
- Valve device. A. A. Cryer. No. 929,398; July 27; Sp. p. 5611; Gaz. vol. 144; p. 984.
- Valve device. J. Miller. No. 943,837; Dec. 21; Sp. p. 3880; Gaz. vol. 149; p. 675.
- Valve device. J. Miller. No. 943,838; Dec. 21; Sp. p. 3882; Gaz. vol. 149; p. 675.
- Valve device, Brake-. W. V. Turner. No. 929,054; July 27; Sp. p. 4861; Gaz. vol. 144; p. 869.
- Valve device for corrosive liquids. W. H. Smith. No. 939,927; Nov. 9; Sp. p. 3251; Gaz. vol. 148; p. 536.
- Valve device for corrosive liquids. W. H. Smith. No. 941,351; Nov. 23; Sp. p. 6395; Gaz. vol. 148; p. 1069.
- Valve device for plumbing-fittings. P. J. Madden. No. 931,939; Aug. 24; Sp. p. 4921; Gaz. vol. 145; p. 845.
- Valve, Discharge-. O. S. Sleeper. No. 919,787; Apr. 27; Sp. p. 6042; Gaz. vol. 141; p. 1039.
- Valve, Discharge-. O. S. Sleeper. No. 920,201; May 4; Sp. p. 225; Gaz. vol. 142; p. 35.
- Valve-disk-cutting machine. F. L. Smith and T. B. Williams. No. 944,002; Dec. 21; Sp. p. 4246; Gaz. vol. 149; p. 731.
- Valve, Double-seated. F. M. Smith. No. 919,480; Apr. 27; Sp. p. 5428; Gaz. vol. 141; p. 935.
- Valve, Drain-. H. M. Kirby. No. 934,188; Sept. 14; Sp. p. 2482; Gaz. vol. 146; p. 410.
- Valve, Drain-. E. S. Stotts. No. 943,577; Dec. 14; Sp. p. 3296; Gaz. vol. 149; p. 556.
- Valve, Dry. F. A. Phelps. No. 942,100; Dec. 7; Sp. p. 137; Gaz. vol. 149; p. 22.
- Valve, Dry-pipe. G. I. Rockwood. No. 914,883; Mar. 9; Sp. p. 2584; Gaz. vol. 140; p. 431.
- Valve, Dry-pipe. G. I. Rockwood. No. 929,710; Aug. 3; Sp. p. 147; Gaz. vol. 145; p. 26.
- Valve, Dry-pipe. H. G. Baker. No. 941,971; Nov. 30; Sp. p. 7729; Gaz. vol. 148; p. 1302.
- Valve, Electric expansion-. G. P. Carroll. No. 925,081; June 15; Sp. p. 4240; Gaz. vol. 143; p. 721.
- Valve, Electrically-operated. I. G. Waterman. No. 921,760; May 18; Sp. p. 3431; Gaz. vol. 142; p. 611.
- Valve, Electrically-operated. G. W. Collin. No. 926,389; June 29; Sp. p. 6902; Gaz. vol. 143; p. 1215.
- Valve, Electrically-operated. W. W. Annable. No. 936,074; Oct. 5; Sp. p. 1009; Gaz. vol. 147; p. 152.
- Valve, Emergency-. H. A. Dolley. No. 930,847; Aug. 10; Sp. p. 2506; Gaz. vol. 145; p. 434.
- Valve, Engine-. J. F. Hopper. No. 910,540; Jan. 26; Sp. p. 4313; Gaz. vol. 138; p. 792.
- Valve, Engine-. B. V. Nordberg. No. 914,747; Mar. 9; Sp. p. 2312; Gaz. vol. 140; p. 387.
- Valve, Engine-. J. Rothchild. No. 916,491; Mar. 30; Sp. p. 5762; Gaz. vol. 140; p. 1039.
- Valve, Engine-. W. R. McKeen, Jr. No. 940,349; Nov. 16; Sp. p. 4223; Gaz. vol. 148; p. 712.
- Valve, Engineer's. W. Ohlsen. No. 938,169; Oct. 26; Sp. p. 5387; Gaz. vol. 147; p. 919.
- Valve, Equilibrium stop-. J. Koenig. No. 933,468; Sept. 7; Sp. p. 994; Gaz. vol. 146; p. 150.
- Valve, Expansion-. D. Billiard. No. 915,543; Mar. 16; Sp. p. 3882; Gaz. vol. 140; p. 673.
- Valve, Filling-. E. E. Gold. No. 913,949; Mar. 2; Sp. p. 608; Gaz. vol. 140; p. 97.
- Valve, Float-. G. E. Loeble. No. 916,735; Mar. 30; Sp. p. 6228; Gaz. vol. 140; p. 1115.
- Valve, Float-. L. Guedes. No. 916,927; Mar. 30; Sp. p. 6604; Gaz. vol. 140; p. 1177.
- Valve, Float-. J. S. Brennan. No. 918,272; Apr. 13; Sp. p. 2667; Gaz. vol. 141; p. 473.
- Valve, Float-. G. J. Griffin. No. 918,314; Apr. 13; Sp. p. 2747; Gaz. vol. 141; p. 487.
- Valve, Fluid-. C. G. Crispin. No. 924,641; June 15; Sp. p. 3334; Gaz. vol. 143; p. 574.
- Valve, Fluid check-. C. W. Lockwood. No. 932,149; Aug. 24; Sp. p. 5368; Gaz. vol. 145; p. 915.
- Valve, Fluid-pressure. J. M. Sissons. No. 929,033; July 27; Sp. p. 4821; Gaz. vol. 144; p. 862.
- Valve, Fluid-pressure. J. Folco. No. 940,385; Nov. 16; Sp. p. 4331; Gaz. vol. 148; p. 725.
- Valve, Fluid-pressure-controlling. F. A. Nelson. No. 917,345; Apr. 6; Sp. p. 798; Gaz. vol. 141; p. 136.
- Valve, Fluid-sealed. H. I. Lea. No. 934,447; Sept. 21; Sp. p. 2986; Gaz. vol. 146; p. 521.
- Valve, Flush-. D. W. McNeil. No. 912,597; Feb. 16; Sp. p. 3253; Gaz. vol. 139; p. 583.
- Valve, Flush-. E. D. Barrett. (Reissue). No. 12,951; May 4; Sp. p. 1646; Gaz. vol. 142; p. 263.
- Valve, Flush-. W. W. Smith. No. 921,017; May 11; Sp. p. 1880; Gaz. vol. 142; p. 333.
- Valve, Flush-. E. Nanfeldt. No. 931,465; Aug. 17; Sp. p. 3892; Gaz. vol. 145; p. 671.
- Valve, Flush-. D. E. Selby. No. 933,855; Sept. 14; Sp. p. 1824; Gaz. vol. 146; p. 301.
- Valve, Flush-tank. J. F. Cotter. No. 934,045; Sept. 14; Sp. p. 2179; Gaz. vol. 146; p. 361.
- Valve, Flush-tank supply-. J. S. Caldwell. No. 913,808; Mar. 2; Sp. p. 274; Gaz. vol. 140; p. 46.
- Valve, Flushing-. T. R. Jenkins, Jr. No. 909,605; Jan. 12; Sp. p. 2364; Gaz. vol. 138; p. 419.
- Valve, Flushing-. D. W. McNeil. No. 912,599; Feb. 16; Sp. p. 3257; Gaz. vol. 139; p. 584.
- Valve, Flushing-. G. A. Brown. No. 913,097; Feb. 23; Sp. p. 4274; Gaz. vol. 139; p. 775.
- Valve, Flushing-. C. Barr. No. 930,124; Aug. 3; Sp. p. 1062; Gaz. vol. 145; p. 171.
- Valve, Flushing-. M. B. Mahurin. No. 944,098; Dec. 21; Sp. p. 4431; Gaz. vol. 149; p. 764.
- Valve, Flushing-tank. B. Dale. No. 926,730; July 6; Sp. p. 21; Gaz. vol. 144; p. 6.
- Valve for aerated beverages, Regulating-. J. H. A. Garman and J. M. Travis. No. 911,005; Jan. 26; Sp. p. 5233; Gaz. vol. 138; p. 942.
- Valve for air-brakes, High-speed reducing-. W. V. Turner. No. 937,394; Oct. 19; Sp. p. 3749; Gaz. vol. 147; p. 642.
- Valve for air-brakes, Triple. W. B. Mann. No. 931,942; Aug. 24; Sp. p. 4923; Gaz. vol. 145; p. 846.
- Valve for brakes, Triple. J. Doyen. No. 923,418; June 1; Sp. p. 696; Gaz. vol. 143; p. 102.
- Valve for compound steam-pumps, Relief-. H. H. Westinghouse. No. 917,215; Apr. 6; Sp. p. 521; Gaz. vol. 141; p. 91.
- Valve for compression tanks, Regulator-. J. A. Allison. No. 926,378; June 29; Sp. p. 6881; Gaz. vol. 143; p. 1211.
- Valve for engines. O. Pearson. No. 942,587; Dec. 7; Sp. p. 1159; Gaz. vol. 149; p. 189.
- Valve for evaporating-pans. G. G. Chasse. No. 944,175; Dec. 21; Sp. p. 4601; Gaz. vol. 149; p. 789.
- Valve for expansion-drums, Filling-. R. M. Dixon. No. 914,124; Mar. 2; Sp. p. 1013; Gaz. vol. 140; p. 159.
- Valve for faucets, Automatic check-. H. F. Mikesch and E. Roman. No. 910,213; Jan. 19; Sp. p. 3607; Gaz. vol. 138; p. 655.
- Valve for flush-tanks, High-pressure reducing and noiseless. A. G. Virekler. No. 926,787; July 6; Sp. p. 157; Gaz. vol. 144; p. 26.
- Valve for flush-tanks, Water-inlet. E. Morris and C. Rinaman. No. 921,268; May 11; Sp. p. 2392; Gaz. vol. 142; p. 419.
- Valve for flushing-tanks. F. Prichett. No. 934,353; Sept. 14; Sp. p. 2788; Gaz. vol. 146; p. 464.
- Valve for flushing-tanks, Float-. W. N. Long. No. 912,009; Feb. 9; Sp. p. 2025; Gaz. vol. 139; p. 352.
- Valve for flushing-tanks, Reversible. A. H. Canfield. No. 926,239; June 29; Sp. p. 6624; Gaz. vol. 143; p. 1168.
- Valve for gas-burners. F. Egge. No. 909,878; Jan. 19; Sp. p. 2915; Gaz. vol. 138; p. 542.
- Valve for gas-mains, Goggle-. L. Shaw. No. 931,506; Aug. 17; Sp. p. 3966; Gaz. vol. 145; p. 684.
- Valve for grain-separators. C. J. H. Grant. No. 913,377; Feb. 23; Sp. p. 4851; Gaz. vol. 139; p. 869.
- Valve for heating apparatus. M. P. Osbourn. No. 934,932; Sept. 21; Sp. p. 3936; Gaz. vol. 146; p. 683.
- Valve for heating systems, Vacuum-. F. Shurtleff. No. 930,893; Aug. 10; Sp. p. 2626; Gaz. vol. 145; p. 449.
- Valve for hot-water heating systems. E. F. Gebhardt. No. 917,579; Apr. 6; Sp. p. 1205; Gaz. vol. 141; p. 211.
- Valve for hot-water heating systems. H. G. Thomas. No. 917,813; Apr. 13; Sp. p. 1713; Gaz. vol. 141; p. 315.
- Valve for hydrants, stand-pipes, and the like. H. S. Lange. No. 935,373; Sept. 28; Sp. p. 4824; Gaz. vol. 146; p. 853.
- Valve for liquid-weighing machines, Regulating-. H. W. Meyer. No. 921,428; May 11; Sp. p. 2746; Gaz. vol. 142; p. 472.
- Valve for locomotive-boilers, &c., Check-. T. R. Fondren. No. 940,453; Nov. 16; Sp. p. 4473; Gaz. vol. 148; p. 747.



*Alphabetical list of inventions—Continued.*

- Valve for locomotives, By-pass. J. G. Blunt. No. 921,583; May 11; Sp. p. 3038; Gaz. vol. 142; p. 522.  
 Valve for paper-pulp conduits. G. W. Kimball. No. 913,400; Feb. 23; Sp. p. 4891; Gaz. vol. 139; p. 877.  
 Valve for pneumatic drills, Throttle. A. Levedahl. No. 935,268; Sept. 28; Sp. p. 4612; Gaz. vol. 146; p. 820.  
 Valve for pneumatic hammers, Throttle. R. A. Norling. No. 910,223; Jan. 19; Sp. p. 3625; Gaz. vol. 138; p. 659.  
 Valve for pulp-digesters, Escape. G. F. Rowe. No. 921,741; May 18; Sp. p. 3390; Gaz. vol. 142; p. 604.  
 Valve for radiators. A. Serely. No. 912,188; Feb. 9; Sp. p. 2361; Gaz. vol. 139; p. 408.  
 Valve for radiators, Air-. W. F. McDaniel. No. 920,373; May 4; Sp. p. 575; Gaz. vol. 142; p. 92.  
 Valve for radiators, Air-. F. W. Lethesser. No. 944,338; Dec. 28; Sp. p. 4935; Gaz. vol. 149; p. 870.  
 Valve for regenerative furnaces, Reversing-. G. P. Graham. No. 916,695; Mar. 30; Sp. p. 6167; Gaz. vol. 140; p. 1104.  
 Valve for sewers, Check-. F. Clemens, Jr. No. 922,262; May 18; Sp. p. 4466; Gaz. vol. 142; p. 775.  
 Valve for stand-pipes, Balance-. W. I. Short and W. I. Cooley. No. 909,697; Jan. 12; Sp. p. 2545; Gaz. vol. 138; p. 452.  
 Valve for steam-boilers, Feed-. L. D. Mager. No. 944,683; Dec. 28; Sp. p. 5705; Gaz. vol. 149; p. 990.  
 Valve for steam, compressed air, or gas, Safety-. G. Grusendorf. No. 937,597; Oct. 19; Sp. p. 4173; Gaz. vol. 147; p. 711.  
 Valve for steam-engines, &c., Reducing or pressure-regulating. H. Roux. No. 940,195; Nov. 16; Sp. p. 3882; Gaz. vol. 148; p. 659.  
 Valve for steam-engines, Reversing-. F. L. Fry. No. 944,960; Dec. 28; Sp. p. 6295; Gaz. vol. 149; p. 1082.  
 Valve for steam-engines, &c., Safety-. H. Roux. No. 917,143; Apr. 6; Sp. p. 339; Gaz. vol. 141; p. 66.  
 Valve for steam-heating apparatus, Water and air relief. J. L. Fitts. No. 920,555; May 4; Sp. p. 938; Gaz. vol. 142; p. 151.  
 Valve for steam-heating systems, Automatic relief-. A. Mowell. No. 933,777; Sept. 14; Sp. p. 1664; Gaz. vol. 146; p. 275.  
 Valve for steam-heating systems, Modulation-. E. W. Comfort and J. L. Fitts. No. 929,657; Aug. 3; Sp. p. 22; Gaz. vol. 145; p. 6.  
 Valve for steam-heating systems, Regulating-. J. L. Fitts. No. 917,035; Apr. 6; Sp. p. 149; Gaz. vol. 141; p. 29.  
 Valve for steam-heating systems, Regulating-. J. L. Fitts. No. 929,665; Aug. 3; Sp. p. 42; Gaz. vol. 145; p. 10.  
 Valve for steam-heating systems, Water and air. E. W. Comfort. No. 923,333; June 1; Sp. p. 518; Gaz. vol. 143; p. 74.  
 Valve for steam-radiators, Automatic. I. Hutchins. No. 914,418; Mar. 9; Sp. p. 1624; Gaz. vol. 140; p. 277.  
 Valve for steam-traps. B. L. and G. H. Clover. No. 942,246; Dec. 7; Sp. p. 469; Gaz. vol. 149; p. 73.  
 Valve for steep-tanks. J. F. Dornfeld. No. 941,442; Nov. 30; Sp. p. 6623; Gaz. vol. 148; p. 1122.  
 Valve for the air-ducts of brick-kilns, &c. E. H. Callaway. No. 917,710; Apr. 6; Sp. p. 1454; Gaz. vol. 141; p. 255.  
 Valve for the supply-pipes for water-motors, Relief. H. E. Warren. No. 920,099; Apr. 27; Sp. p. 6722; Gaz. vol. 141; p. 1141.  
 Valve for tire-pumps, Pressure-controlling. J. Desmond. No. 909,373; Jan. 12; Sp. p. 1910; Gaz. vol. 138; p. 341.  
 Valve for train-brakes, Engineer's. W. K. Rankin. No. 942,280; Dec. 7; Sp. p. 546; Gaz. vol. 149; p. 85.  
 Valve for vacuum cleaning-tools, Self-closing. J. S. Thurman. No. 918,930; Apr. 20; Sp. p. 4103; Gaz. vol. 141; p. 720.  
 Valve for water-closets, Supply-. A. C. Einstein. No. 913,479; Feb. 23; Sp. p. 5048; Gaz. vol. 139; p. 902.  
 Valve for water-tanks. E. A. Naslund. No. 923,878; June 8; Sp. p. 1746; Gaz. vol. 143; p. 291.  
 Valve for water-tanks, Float-. E. N. Campbell. No. 940,127; Nov. 16; Sp. p. 3732; Gaz. vol. 148; p. 635.  
 Valve, Gas-. M. F. Webb. No. 917,385; Apr. 6; Sp. p. 868; Gaz. vol. 141; p. 149.  
 Valve, Gas-. J. Melnik. No. 928,316; July 20; Sp. p. 3399; Gaz. vol. 144; p. 598.  
 Valve, Gas-cut-off. J. S. Joseph. No. 913,899; Mar. 2; Sp. p. 495; Gaz. vol. 140; p. 80.  
 Valve, Gas-cut-off. O. A. Giffen. No. 919,155; Apr. 20; Sp. p. 4527; Gaz. vol. 141; p. 791.  
 Valve, Gas-engine. W. S. Huyette. No. 911,503; Feb. 2; Sp. p. 909; Gaz. vol. 139; p. 859.  
 Valve, Gas-engine. F. G. Hobart. No. 923,524; June 1; Sp. p. 913; Gaz. vol. 143; p. 140.  
 Valve, Gas-engine. H. L. Jessen. No. 935,989; Oct. 5; Sp. p. 830; Gaz. vol. 147; p. 124.  
 Valve, Gas-engine admission-. G. B. Petsche. No. 935,323; Sept. 28; Sp. p. 4721; Gaz. vol. 146; p. 837.  
 Valve, Gas-regulating. C. C. Armstrong. No. 931,668; Aug. 17; Sp. p. 4287; Gaz. vol. 145; p. 732.  
 Valve, Gate-. A. P. Smith. No. 922,636; May 25; Sp. p. 5231; Gaz. vol. 142; p. 925.  
 Valve, Gate-. W. W. Doolittle. No. 925,880; June 22; Sp. p. 5863; Gaz. vol. 143; p. 1013.  
 Valve, Gate-. G. E. R. Rothenbucher. No. 935,233; Sept. 28; Sp. p. 4539; Gaz. vol. 146; p. 808.  
 Valve, Gate-. E. D. Jefferson. No. 936,454; Oct. 12; Sp. p. 1807; Gaz. vol. 147; p. 300.  
 Valve-gear. H. Sanderson, R. J. Isaacson, and H. S. Sanderson. No. 915,224; Mar. 16; Sp. p. 3253; Gaz. vol. 140; p. 568.  
 Valve-gear. L. King. No. 921,413; May 11; Sp. p. 2719; Gaz. vol. 142; p. 468.  
 Valve-gear. H. Lentz and C. Bellens. No. 921,418; May 11; Sp. p. 2726; Gaz. vol. 142; p. 469.  
 Valve-gear. E. L. Bowen. No. 922,250; May 18; Sp. p. 4438; Gaz. vol. 142; p. 770.  
 Valve-gear. M. Berg. No. 923,935; June 8; Sp. p. 1845; Gaz. vol. 143; p. 308.  
 Valve-gear. T. O'Brien. No. 934,750; Sept. 21; Sp. p. 3565; Gaz. vol. 146; p. 621.  
 Valve-gear. B. Smart. No. 935,169; Sept. 28; Sp. p. 4414; Gaz. vol. 146; p. 787.  
 Valve-gear. J. J. Redman. No. 937,330; Oct. 19; Sp. p. 3595; Gaz. vol. 147; p. 621.  
 Valve-gear. A. M. Wolf. No. 938,360; Oct. 26; Sp. p. 5806; Gaz. vol. 147; p. 985.  
 Valve-gear. A. Chubb and C. R. Mullen. No. 941,189; Nov. 23; Sp. p. 6065; Gaz. vol. 148; p. 1018.  
 Valve-gear, Air-. E. A. Rix. No. 931,650; Aug. 17; Sp. p. 4256; Gaz. vol. 145; p. 726.  
 Valve-gear and ignition apparatus for internal-combustion engines. M. Briggs. No. 927,484; July 13; Sp. p. 1601; Gaz. vol. 144; p. 284.  
 Valve-gear, Engine. C. F. Prescott. No. 922,036; May 18; Sp. p. 4009; Gaz. vol. 142; p. 701.  
 Valve-gear for elastic-fluid engines, Reversible. R. Hennig. No. 935,500; Sept. 28; Sp. p. 5059; Gaz. vol. 146; p. 893.  
 Valve-gear for engines. A. T. Keller. No. 917,452; Apr. 6; Sp. p. 980; Gaz. vol. 141; p. 171.  
 Valve-gear for engines. T. Jolma. No. 941,523; Nov. 30; Sp. p. 6784; Gaz. vol. 148; p. 1149.  
 Valve-gear for explosive-engines. A. A. Karcher. No. 938,386; Oct. 26; Sp. p. 5863; Gaz. vol. 147; p. 994.  
 Valve-gear for steam-engines. F. E. Norton. No. 919,207; Apr. 20; Sp. p. 4629; Gaz. vol. 141; p. 808.  
 Valve-gear for steam-engines. W. M. Evered. No. 944,724; Dec. 28; Sp. p. 5805; Gaz. vol. 149; p. 1004.  
 Valve-gear for turbines. C. Roth. No. 934,360; Sept. 14; Sp. p. 2802; Gaz. vol. 146; p. 467.  
 Valve-gear, Rotary. O. O. Lemon. No. 931,934; Aug. 24; Sp. p. 4910; Gaz. vol. 145; p. 843.  
 Valve, Globe-. J. Struben. No. 929,994; Aug. 3; Sp. p. 791; Gaz. vol. 145; p. 126.  
 Valve, Globe-. C. E. Fisher. No. 935,360; Sept. 28; Sp. p. 4805; Gaz. vol. 146; p. 849.  
 Valve governor, Triple-. C. H. Hughes. No. 917,946; Apr. 13; Sp. p. 1987; Gaz. vol. 141; p. 361.  
 Valve-grinder. F. I. Harding. No. 930,472; Aug. 10; Sp. p. 1708; Gaz. vol. 145; p. 309.  
 Valve-grinder. I. C. Smith. No. 942,222; Dec. 7; Sp. p. 419; Gaz. vol. 149; p. 64.  
 Valve-grinding device. R. H. Hazeltine. No. 918,050; Apr. 13; Sp. p. 2217; Gaz. vol. 141; p. 399.  
 Valve-guard. W. Thompson. No. 923,731; June 1; Sp. p. 1355; Gaz. vol. 143; p. 211.  
 Valve-guard. W. Thompson. No. 926,836; July 6; Sp. p. 271; Gaz. vol. 144; p. 44.  
 Valve-handle. W. P. Marble. (Reissue.) No. 12,982; June 29; Sp. p. 7536; Gaz. vol. 143; p. 1326.  
 Valve-handle. W. P. Marble. No. 944,099; Dec. 21; Sp. p. 4433; Gaz. vol. 149; p. 764.  
 Valve, High-speed-reducing. W. V. Turner. No. 924,018; June 8; Sp. p. 2016; Gaz. vol. 143; p. 334.  
 Valve, Hot-blast. M. L. Rowe. No. 927,431; July 6; Sp. p. 1465; Gaz. vol. 144; p. 243.  
 Valve, Hydraulic. E. W. Marshall. No. 910,079; Jan. 19; Sp. p. 3315; Gaz. vol. 138; p. 610.  
 Valve, Hydraulic. S. S. Caskey. No. 920,268; May 4; Sp. p. 391; Gaz. vol. 142; p. 59.  
 Valve, Hydraulic. J. L. and W. P. Brunton. No. 932,955; Aug. 31; Sp. p. 7006; Gaz. vol. 145; p. 1204.  
 Valve, Hydraulic. E. W. Marshall. No. 940,643; Nov. 16; Sp. p. 4864; Gaz. vol. 148; p. 810.  
 Valve indicator, Gate-. A. J. Richmond. No. 933,786; Sept. 14; Sp. p. 1679; Gaz. vol. 146; p. 278.  
 Valve, Inflation-. J. E. Keller, Jr. No. 923,359; June 1; Sp. p. 574; Gaz. vol. 143; p. 58.  
 Valve-inserting machine. F. A. Phelps. No. 940,356; Nov. 16; Sp. p. 4237; Gaz. vol. 148; p. 714.  
 Valve, Lavatory supply-. W. A. Speakman. No. 931,512; Aug. 17; Sp. p. 3976; Gaz. vol. 145; p. 685.  
 Valve-lifting device, Antidry-meter-. R. E. Davis. No. 934,050; Sept. 14; Sp. p. 2192; Gaz. vol. 146; p. 362.  
 Valve, Liquid-. K. Kiefer. No. 930,386; Aug. 10; Sp. p. 1543; Gaz. vol. 145; p. 279.  
 Valve, Liquid-. K. Kiefer. No. 930,387; Aug. 10; Sp. p. 1544; Gaz. vol. 145; p. 280.  
 Valve-lock. L. Toback. No. 923,090; May 25; Sp. p. 6172; Gaz. vol. 142; p. 1071.  
 Valve, Lock-. T. M. Swank. No. 939,108; Nov. 2; Sp. p. 1392; Gaz. vol. 148; p. 227.  
 Valve-locking device. E. A. Brandenburg. No. 924,423; June 8; Sp. p. 2872; Gaz. vol. 143; p. 469.  
 Valve mechanism. L. Ilmer, Jr., and E. J. Kunze. No. 909,187; Jan. 12; Sp. p. 1558; Gaz. vol. 138; p. 281.  
 Valve mechanism. L. Ilmer, Jr., and E. J. Kunze. No. 909,304; Jan. 12; Sp. p. 1779; Gaz. vol. 138; p. 320.  
 Valve mechanism. A. W. Wilkey. No. 914,771; Mar. 9; Sp. p. 2355; Gaz. vol. 140; p. 395.  
 Valve mechanism. O. Bartel. No. 914,913; Mar. 9; Sp. p. 2629; Gaz. vol. 140; p. 440.  
 Valve mechanism. R. Howard. No. 915,353; Mar. 16; Sp. p. 3497; Gaz. vol. 140; p. 610.  
 Valve mechanism. E. V. Anderson. No. 917,740; Apr. 6; Sp. p. 1513; Gaz. vol. 141; p. 265.  
 Valve mechanism. H. E. Perrault. No. 920,991; May 11; Sp. p. 1827; Gaz. vol. 142; p. 324.  
 Valve mechanism. W. H. and F. M. Spayd. No. 927,694; July 13; Sp. p. 2069; Gaz. vol. 144; p. 359.  
 Valve mechanism. O. Bartel. No. 930,919; Aug. 10; Sp. p. 2675; Gaz. vol. 145; p. 458.

*Alphabetical list of inventions—Continued.*

- Valve mechanism, Blowing-engine. B. V. Nordberg. No. 927,271; July 6; Sp. p. 1171; Gaz. vol. 144; p. 192.
- Valve mechanism, Control-. G. F. Schodde. No. 926,142; June 29; Sp. p. 6393; Gaz. vol. 143; p. 1135.
- Valve mechanism for channelling-machines. H. V. Haight. No. 921,240; May 11; Sp. p. 2342; Gaz. vol. 142; p. 411.
- Valve mechanism for engines and compressors. S. A. Reeve. (Reissue.) No. 12,991; July 13; Sp. p. 3179; Gaz. vol. 144; p. 543.
- Valve mechanism for gas-engines, Exhaust-. F. P. Benson. No. 931,839; Aug. 24; Sp. p. 4685; Gaz. vol. 145; p. 812.
- Valve mechanism for gas-engines, Governor-controlled. C. Jacobson. No. 934,813; Sept. 21; Sp. p. 3692; Gaz. vol. 146; p. 642.
- Valve mechanism for heating apparatus. J. L. Fitts. No. 941,703; Nov. 30; Sp. p. 7159; Gaz. vol. 148; p. 1208.
- Valve mechanism for rock-drills, &c. J. L. Mitchell. No. 909,923; Jan. 19; Sp. p. 3013; Gaz. vol. 138; p. 558.
- Valve mechanism for steam-engines. L. Miller. No. 908,478; Jan. 5; Sp. p. 93; Gaz. vol. 138; p. 18.
- Valve mechanism for steam-engines. J. C. Bird. No. 933,952; Sept. 14; Sp. p. 2011; Gaz. vol. 146; p. 331.
- Valve mechanism, Relief-. J. L. Moyer. No. 921,867; May 18; Sp. p. 3668; Gaz. vol. 142; p. 646.
- Valve mechanism, Relief-. J. Sturgess. No. 937,484; Oct. 19; Sp. p. 3957; Gaz. vol. 147; p. 672.
- Valve mechanism, Steam-engine. E. L. Bowen. No. 923,486; June 1; Sp. p. 830; Gaz. vol. 143; p. 125.
- Valve mechanism, Suction-operated. A. Kilborn. No. 935,521; Sept. 28; Sp. p. 5128; Gaz. vol. 146; p. 901.
- Valve mechanism, Throttle-. S. Oldham. No. 920,631; May 4; Sp. p. 1090; Gaz. vol. 142; p. 177.
- Valve, Mixing-. W. G. Newton. No. 927,000; July 6; Sp. p. 601; Gaz. vol. 144; p. 99.
- Valve, Mixing and regulating. C. J. Lake. No. 913,516; Feb. 23; Sp. p. 5120; Gaz. vol. 139; p. 914.
- Valve-motion for gas-motors. G. Mees. No. 921,864; May 18; Sp. p. 3662; Gaz. vol. 142; p. 645.
- Valve, Motorman's. W. H. Terwilliger. No. 913,583; Feb. 23; Sp. p. 5300; Gaz. vol. 139; p. 938.
- Valve, Motorman's. B. Lewis. No. 919,448; Apr. 27; Sp. p. 5332; Gaz. vol. 141; p. 921.
- Valve, Needle-. J. Maas. No. 938,601; Nov. 2; Sp. p. 365; Gaz. vol. 148; p. 54.
- Valve, Non-leaking. J. Kobus. No. 922,294; May 18; Sp. p. 4516; Gaz. vol. 142; p. 784.
- Valve, Non-return. J. R. Tanner. No. 916,218; Mar. 23; Sp. p. 5204; Gaz. vol. 140; p. 921.
- Valve, Non-return. E. V. Anderson. No. 944,402; Dec. 28; Sp. p. 5077; Gaz. vol. 149; p. 894.
- Valve, Non-return stop-. N. C. Locke. No. 926,755; July 6; Sp. p. 102; Gaz. vol. 144; p. 16.
- Valve of the globe type. H. J. Kiel. No. 940,163; Nov. 16; Sp. p. 3798; Gaz. vol. 148; p. 647.
- Valve-operating device, Flushing-. C. H. Bacon. No. 909,517; Jan. 12; Sp. p. 2198; Gaz. vol. 138; p. 390.
- Valve-operating float. W. Briggs. No. 944,477; Dec. 28; Sp. p. 5249; Gaz. vol. 149; p. 919.
- Valve-operating means for closets, Flush-. L. Links and R. E. Irwin. No. 937,619; Oct. 19; Sp. p. 4217; Gaz. vol. 147; p. 718.
- Valve-operating mechanism. G. W. Dunham. No. 923,422; June 1; Sp. p. 702; Gaz. vol. 143; p. 104.
- Valve-operating mechanism. A. M. Houser. No. 923,526; June 1; Sp. p. 916; Gaz. vol. 143; p. 141.
- Valve-operating mechanism, Automatic. C. Walker. No. 944,927; Dec. 28; Sp. p. 6237; Gaz. vol. 149; p. 1072.
- Valve-operating mechanism, Electrically-controlled. H. W. Zook. No. 924,673; June 15; Sp. p. 5390; Gaz. vol. 143; p. 944.
- Valve-operating mechanism, Flush-. J. M. Young and F. W. Robertshaw. No. 925,550; June 22; Sp. p. 5133; Gaz. vol. 143; p. 905.
- Valve-operating mechanism for internal-combustion engines. S. Löffler. No. 928,390; July 20; Sp. p. 3526; Gaz. vol. 144; p. 623.
- Valve-operating mechanism, Furnace-. J. W. Seaver. No. 928,403; July 20; Sp. p. 3549; Gaz. vol. 144; p. 627.
- Valve or cock, Blow-off. W. T. Fowden. No. 944,025; Dec. 21; Sp. p. 4292; Gaz. vol. 149; p. 739.
- Valve, Pipe-. W. B. Vestal. No. 911,095; Feb. 2; Sp. p. 141; Gaz. vol. 139; p. 26.
- Valve, Piston-. J. Nolan. No. 913,968; Mar. 2; Sp. p. 654; Gaz. vol. 140; p. 103.
- Valve, Plug-. J. E. Noesen. No. 910,013; Jan. 19; Sp. p. 3188; Gaz. vol. 138; p. 589.
- Valve, Pneumatic-tire. T. B. Huestis. No. 917,071; Apr. 6; Sp. p. 216; Gaz. vol. 141; p. 40.
- Valve, Pressure and vacuum steam-heating. F. C. Goff. No. 935,599; Sept. 28; Sp. p. 5290; Gaz. vol. 146; p. 928.
- Valve, Pressure-holding. B. A. Chew. No. 909,061; Jan. 5; Sp. p. 1278; Gaz. vol. 138; p. 206.
- Valve, Pressure-reducing. F. Nicola. No. 923,568; June 1; Sp. p. 1017; Gaz. vol. 143; p. 156.
- Valve, Pressure-regulating. F. L. Jahn. No. 917,443; Apr. 6; Sp. p. 963; Gaz. vol. 141; p. 167.
- Valve, Pressure-regulating. F. N. Labelle. No. 927,252; July 6; Sp. p. 1141; Gaz. vol. 144; p. 186.
- Valve, Pressure-regulating. J. I. Cappon. No. 932,960; Aug. 31; Sp. p. 7013; Gaz. vol. 145; p. 1206.
- Valve, Pressure-regulating. H. F. Cunningham. No. 937,774; Oct. 26; Sp. p. 4542; Gaz. vol. 147; p. 787.
- Valve, Pressure-retaining. B. J. Minnier. No. 925,211; June 15; Sp. p. 4494; Gaz. vol. 143; p. 768.
- Valve, Pressure-retaining. R. W. Kelly. No. 942,331; Dec. 7; Sp. p. 639; Gaz. vol. 149; p. 102.
- Valve-push-rod mechanism. H. F. Odenkirchen. No. 908,604; Jan. 5; Sp. p. 365; Gaz. vol. 138; p. 59.
- Valve, Quick-acting radiator-. E. P. Allen. No. 933,222; Sept. 7; Sp. p. 436; Gaz. vol. 146; p. 67.
- Valve, Quick-acting safety-. C. R. Mills. No. 934,083; Sept. 14; Sp. p. 2276; Gaz. vol. 146; p. 373.
- Valve, Quick-action triple. D. S. Gilbert. No. 942,634; Dec. 7; Sp. p. 1254; Gaz. vol. 149; p. 205.
- Valve, Radiator-. F. L. Watson. No. 914,209; Mar. 2; Sp. p. 1181; Gaz. vol. 140; p. 185.
- Valve, Radiator-. F. A. Simonds. No. 932,589; Aug. 31; Sp. p. 6267; Gaz. vol. 145; p. 1084.
- Valve, Radiator-. G. M. Bard. No. 933,225; Sept. 7; Sp. p. 442; Gaz. vol. 146; p. 68.
- Valve, Radiator-. J. B. Morgan and C. R. Webster. No. 940,182; Nov. 16; Sp. p. 3847; Gaz. vol. 148; p. 653.
- Valve, Reducing-. J. O. Banning. No. 930,121; Aug. 3; Sp. p. 1057; Gaz. vol. 145; p. 170.
- Valve, Reducing-. T. P. Ford. No. 932,262; Aug. 24; Sp. p. 5586; Gaz. vol. 145; p. 952.
- Valve, Reducing-. F. M. Carroll. No. 944,664; Dec. 28; Sp. p. 5672; Gaz. vol. 149; p. 984.
- Valve, Regulating-. H. C. Benwitz. No. 928,732; July 20; Sp. p. 4212; Gaz. vol. 144; p. 734.
- Valve, Regulating-. B. Blümel. No. 939,792; Nov. 9; Sp. p. 2973; Gaz. vol. 148; p. 489.
- Valve, Regulating-. T. M. Wilkins. No. 942,360; Dec. 7; Sp. p. 693; Gaz. vol. 149; p. 112.
- Valve, Regulating-. S. A. Palmer. No. 942,972; Dec. 14; Sp. p. 2020; Gaz. vol. 149; p. 350.
- Valve-regulator. G. R. Miller. No. 918,072; Apr. 13; Sp. p. 2265; Gaz. vol. 141; p. 407.
- Valve-releasing means for dumping-vehicles. J. M. Goodwin. No. 917,287; Apr. 6; Sp. p. 673; Gaz. vol. 141; p. 115.
- Valve, Relief-. E. V. Anderson. No. 919,300; Apr. 27; Sp. p. 5032; Gaz. vol. 141; p. 873.
- Valve relief mechanism, Piston-. J. A. Pfeiffer. No. 910,851; Jan. 26; Sp. p. 4943; Gaz. vol. 138; p. 892.
- Valve-replacing apparatus. E. W. Goodwin. No. 941,873; Nov. 30; Sp. p. 7540; Gaz. vol. 148; p. 1268.
- Valve-reseating machine. R. H. Hazeltine. No. 918,049; Apr. 13; Sp. p. 2214; Gaz. vol. 141; p. 398.
- Valve-reseating tool. T. B. Williams. No. 934,642; Sept. 21; Sp. p. 3366; Gaz. vol. 146; p. 586.
- Valve, Reversing-. J. W. Bell. No. 920,524; May 4; Sp. p. 872; Gaz. vol. 142; p. 141.
- Valve, Ring-. F. W. Rogler. No. 921,892; May 18; Sp. p. 3703; Gaz. vol. 142; p. 653.
- Valve, Rotary. L. A. Frayer and C. O. Howard. No. 908,656; Jan. 5; Sp. p. 493; Gaz. vol. 138; p. 76.
- Valve, Rotary. A. D. Catlin. No. 918,004; Apr. 13; Sp. p. 2129; Gaz. vol. 141; p. 382.
- Valve, Rotary. S. Yankauer. No. 930,017; Aug. 3; Sp. p. 832; Gaz. vol. 145; p. 134.
- Valve, Rotary discharge-. O. Mantius. No. 941,024; Nov. 23; Sp. p. 5703; Gaz. vol. 148; p. 962.
- Valve, Safety-. E. E. Gold. No. 909,886; Jan. 19; Sp. p. 2929; Gaz. vol. 138; p. 545.
- Valve, Safety-. H. C. McCarty. No. 910,711; Jan. 26; Sp. p. 4664; Gaz. vol. 138; p. 848.
- Valve, Safety-. C. H. Kaplinger. No. 917,077; Apr. 6; Sp. p. 230; Gaz. vol. 141; p. 42.
- Valve, Safety-. F. A. Casey. No. 921,360; May 11; Sp. p. 2614; Gaz. vol. 142; p. 450.
- Valve, Safety-. F. S. McIntyre. No. 934,563; Sept. 21; Sp. p. 3200; Gaz. vol. 146; p. 558.
- Valve, Safety-. W. V. Turner. No. 935,709; Oct. 5; Sp. p. 186; Gaz. vol. 147; p. 29.
- Valve, Safety-. J. C. Watson. No. 941,478; Nov. 30; Sp. p. 6695; Gaz. vol. 148; p. 1134.
- Valve, Safety-. H. C. McCarty. No. 944,809; Dec. 28; Sp. p. 5997; Gaz. vol. 149; p. 1032.
- Valve, Safety gas-. W. Shackleton. No. 915,706; Mar. 16; Sp. p. 4239; Gaz. vol. 140; p. 730.
- Valve, Safety gas-. D. Ambrose. No. 925,072; June 15; Sp. p. 4222; Gaz. vol. 143; p. 719.
- Valve, Safety gas-. F. D. Gregory. No. 937,791; Oct. 26; Sp. p. 4580; Gaz. vol. 147; p. 793.
- Valve, Safety gas-. F. Yockey and C. D. McLeod. No. 942,158; Dec. 7; Sp. p. 286; Gaz. vol. 149; p. 44.
- Valve, Sand-. G. H. Irwin and F. Knowlson. No. 927,544; July 13; Sp. p. 1727; Gaz. vol. 144; p. 308.
- Valve, Seat-actuated flushing-. D. W. McNeill. No. 909,928; Jan. 19; Sp. p. 3026; Gaz. vol. 138; p. 560.
- Valve seat for flushing-tanks, Flush-. P. M. Nevins. No. 917,110; Apr. 6; Sp. p. 299; Gaz. vol. 141; p. 55.
- Valve-seat-grinding machine. J. D. Burns. No. 944,845; Dec. 28; Sp. p. 6076; Gaz. vol. 149; p. 1045.
- Valve-seat-refacing device. R. Netter. No. 924,369; June 8; Sp. p. 2773; Gaz. vol. 143; p. 452.
- Valve-seats, Device for refacing. H. S. Clark and R. Netter. No. 908,746; Jan. 5; Sp. p. 673; Gaz. vol. 138; p. 105.
- Valve, Silcock and other. F. W. Carlson. No. 942,541; Dec. 7; Sp. p. 1076; Gaz. vol. 149; p. 174.
- Valve, Sluice-. F. Seiffert. No. 916,494; Mar. 30; Sp. p. 5775; Gaz. vol. 140; p. 1040.
- Valve, So-called reducing-. C. E. Squires. No. 912,503; Feb. 16; Sp. p. 3045; Gaz. vol. 139; p. 550.
- Valve, Split T-. R. J. Harding. No. 929,589; July 27; Sp. p. 5940; Gaz. vol. 144; p. 1045.
- Valve-spring lifter. P. Peterson. No. 944,149; Dec. 21; Sp. p. 4551; Gaz. vol. 149; p. 780.
- Valve, Steam-. C. H. McCutcheon. No. 915,467; Mar. 16; Sp. p. 3728; Gaz. vol. 140; p. 647.



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- Valve, Steam-. J. D. Throop. No. 916,629; Mar. 30; Sp. p. 6047; Gaz. vol. 140; p. 1084.  
 Valve, Steam-actuated. A. Mehlhorn. No. 914,152; Mar. 2; Sp. p. 1055; Gaz. vol. 140; p. 167.  
 Valve, Steam-engine. A. G. Thompson. No. 917,505; Apr. 6; Sp. p. 1073; Gaz. vol. 141; p. 188.  
 Valve, Steam-engine. E. Dugar. No. 919,330; Apr. 27; Sp. p. 5096; Gaz. vol. 141; p. 883.  
 Valve, Steam-engine. J. C. Glenn. No. 936,773; Oct. 12; Sp. p. 2455; Gaz. vol. 147; p. 409.  
 Valve, Steam-safety-. M. A. Hudson. No. 944,330; Dec. 28; Sp. p. 4923; Gaz. vol. 149; p. 868.  
 Valve-stem. F. J. Dahlberg. No. 912,082; Feb. 9; Sp. p. 2170; Gaz. vol. 139; p. 376.  
 Valve-stem lubricator and packing. W. E. Foltz. No. 940,143; Nov. 16; Sp. p. 3758; Gaz. vol. 148; p. 641.  
 Valve, Stop-. F. Cachin. No. 913,356; Feb. 23; Sp. p. 4807; Gaz. vol. 139; p. 862.  
 Valve, Stop-. J. Koenig. No. 932,028; Aug. 24; Sp. p. 5114; Gaz. vol. 145; p. 874.  
 Valve, Stop and waste. D. C. Charmois. No. 909,989; Jan. 19; Sp. p. 3146; Gaz. vol. 138; p. 581.  
 Valve, Stop or like. G. J. O. D. Dikkers. No. 940,239; Nov. 16; Sp. p. 3964; Gaz. vol. 148; p. 674.  
 Valve, Straightway. T. Barrett. No. 940,577; Nov. 16; Sp. p. 4736; Gaz. vol. 148; p. 789.  
 Valve structure. H. White. No. 915,321; Mar. 16; Sp. p. 3442; Gaz. vol. 140; p. 600.  
 Valve structure. F. Plantinga. No. 920,178; May 4; Sp. p. 168; Gaz. vol. 142; p. 27.  
 Valve structure. F. M. Stines. No. 944,219; Dec. 21; Sp. p. 4675; Gaz. vol. 149; p. 801.  
 Valve, Tank-. H. Sinclair. No. 910,874; Jan. 26; Sp. p. 4992; Gaz. vol. 138; p. 901.  
 Valve, Tank-. W. M. Hampton and C. C. Shive. No. 920,460; May 4; Sp. p. 746; Gaz. vol. 142; p. 120.  
 Valve, Tank-. F. Lohman. No. 921,131; May 11; Sp. p. 2114; Gaz. vol. 142; p. 372.  
 Valve, Tank-. V. F. Bernesser and J. J. Crotty. No. 930,454; Aug. 10; Sp. p. 1669; Gaz. vol. 145; p. 302.  
 Valve, Tank-. J. T. Morrison. No. 943,755; Dec. 21; Sp. p. 3715; Gaz. vol. 149; p. 646.  
 Valve, Thermostatic. A. D. Horne. No. 940,155; Nov. 16; Sp. p. 3779; Gaz. vol. 148; p. 644.  
 Valve, Three-way. W. Adamson. No. 916,403; Mar. 30; Sp. p. 5571; Gaz. vol. 140; p. 1009.  
 Valve, Three-way. C. E. Andersson. No. 929,367; July 27; Sp. p. 5562; Gaz. vol. 144; p. 975.  
 Valve, Throttle-. W. J. Haskill. No. 910,195; Jan. 19; Sp. p. 3560; Gaz. vol. 138; p. 648.  
 Valve, Throttle-. F. C. Fahlow. No. 923,199; June 1; Sp. p. 167; Gaz. vol. 143; p. 27.  
 Valve, Throttle-. C. C. Kindig and J. L. Dexter. No. 924,080; June 8; Sp. p. 2123; Gaz. vol. 143; p. 354.  
 Valve, Throttle-. Z. Paul. No. 942,345; Dec. 7; Sp. p. 668; Gaz. vol. 149; p. 107.  
 Valve, Tide-. J. A. Morrison. No. 913,227; Feb. 23; Sp. p. 4550; Gaz. vol. 139; p. 817.  
 Valve, Triple. W. V. Turner. No. 912,511; Feb. 16; Sp. p. 3070; Gaz. vol. 139; p. 553.  
 Valve, Triple. W. V. Turner and J. S. Custer. No. 912,512; Feb. 16; Sp. p. 3074; Gaz. vol. 139; p. 554.  
 Valve, Triple. J. Dillander. No. 930,649; Aug. 10; Sp. p. 2111; Gaz. vol. 145; p. 368.  
 Valve, Triple. W. V. Turner. No. 931,238; Aug. 17; Sp. p. 3417; Gaz. vol. 145; p. 593.  
 Valve, Triple. J. W. Cloud. No. 931,271; Aug. 17; Sp. p. 3494; Gaz. vol. 145; p. 605.  
 Valve, Trough-. B. I. Maudlin. No. 927,368; July 6; Sp. p. 1327; Gaz. vol. 144; p. 221.  
 Valve-truing tool. A. S. Noonan. No. 926,957; July 6; Sp. p. 526; Gaz. vol. 144; p. 85.  
 Valve, Vacuum air-. C. A. Dunham. No. 938,226; Oct. 26; Sp. p. 5505; Gaz. vol. 147; p. 940.  
 Valve, Waste-pipe. A. Storey. No. 925,245; June 15; Sp. p. 4553; Gaz. vol. 143; p. 773.  
 Valve, Water and air relief. J. L. Fitts. No. 920,556; May 4; Sp. p. 940; Gaz. vol. 142; p. 152.  
 Valve, Water and air relief. J. G. Midgley. No. 930,207; Aug. 3; Sp. p. 1208; Gaz. vol. 145; p. 198.  
 Valve, Water-pressure-regulating. E. Conley. No. 927,492; July 13; Sp. p. 1618; Gaz. vol. 144; p. 291.  
 Valve, Water-sealed. L. Shaw. No. 934,846; Sept. 21; Sp. p. 3765; Gaz. vol. 146; p. 653.  
 Valve, Water-supply. H. Gardenier. No. 924,052; June 8; Sp. p. 2072; Gaz. vol. 143; p. 345.  
 Valves, Adjustable bearing for. G. B. Petsche. No. 926,762; July 6; Sp. p. 112; Gaz. vol. 144; p. 18.  
 Valves, Automatically opening and closing. G. Dalén. No. 939,989; Nov. 16; Sp. p. 3390; Gaz. vol. 148; p. 584.  
 Valves, Device for indicating the condition of. J. A. Cole. No. 921,675; May 18; Sp. p. 3276; Gaz. vol. 142; p. 583.  
 Valves, Disengaging device for motor-driven. T. H. Ward and C. R. Yerrick. No. 928,720; July 20; Sp. p. 4188; Gaz. vol. 144; p. 730.  
 Valves, Hydraulic operator for gate-. D. P. Moore. No. 927,422; July 6; Sp. p. 1444; Gaz. vol. 144; p. 240.  
 Valves, Hydraulic regulator for. V. Gelpke and P. Kugel. No. 929,206; July 27; Sp. p. 5185; Gaz. vol. 144; p. 919.  
 Valves in engine-cylinders, Means for mounting. L. G. Sabathé. No. 929,886; Aug. 3; Sp. p. 572; Gaz. vol. 145; p. 90.  
 Valves in water-supply systems, Device for dislodging matter from. J. Conway. No. 911,941; Feb. 9; Sp. p. 1790; Gaz. vol. 139; p. 329.  
 Valves, &c., Machine for facing. T. B. Williams. No. 913,085; Feb. 23; Sp. p. 4251; Gaz. vol. 139; p. 770.  
 Valves, &c., Machine for reseating. T. B. Williams. No. 918,805; Apr. 20; Sp. p. 3830; Gaz. vol. 141; p. 677.  
 Valves, Making records for setting slide-. J. B. Michael. No. 942,453; Dec. 7; Sp. p. 876; Gaz. vol. 149; p. 144.  
 Valves, Means for grinding triple. E. E. Innis. No. 929,441; July 27; Sp. p. 5675; Gaz. vol. 144; p. 997.  
 Valves of washbasins, bath-tubs, or other receptacles, Mechanism for operating the outlet-. J. Miller. No. 941,797; Nov. 30; Sp. p. 7361; Gaz. vol. 148; p. 1241.  
 Valves, Operating mechanism for train-pipe. J. M. Towne and E. E. Allbee. No. 915,907; Mar. 23; Sp. p. 4630; Gaz. vol. 140; p. 821.  
 Valves, Push-button mechanism for flush-. W. J. Frost. No. 943,630; Dec. 14; Sp. p. 3451; Gaz. vol. 149; p. 575.  
 Valves, Testing attachment for spring-loaded. W. E. Jerauld. No. 920,472; May 4; Sp. p. 765; Gaz. vol. 142; p. 123.  
 Valves, Time mechanism for operating gas and other. V. H. Slinack. No. 944,988; Dec. 28; Sp. p. 6360; Gaz. vol. 149; p. 1091.  
 Valved bag. J. Reaney, Jr., and J. A. McNulty. No. 931,888; Aug. 24; Sp. p. 4786; Gaz. vol. 145; p. 827.  
 Vamp-folding machine. B. A. Slocum. No. 918,383; Apr. 13; Sp. p. 2882; Gaz. vol. 141; p. 509.  
 Vamp-trimming machine. J. B. Hadaway. No. 922,697; May 25; Sp. p. 5355; Gaz. vol. 142; p. 945.  
 Vanilla-beans, Extracting essences and tinctures from. E. M. Howell. No. 921,251; May 11; Sp. p. 2362; Gaz. vol. 142; p. 414.  
 Vanilla, Oleoresin of. E. J. Sheehan. No. 931,805; Aug. 24; Sp. p. 4621; Gaz. vol. 145; p. 801.  
 Vanner. D. K. Allison. No. 915,322; Mar. 16; Sp. p. 3444; Gaz. vol. 140; p. 600.  
 Vanner. G. B. Shipley. No. 924,589; June 8; Sp. p. 3198; Gaz. vol. 143; p. 523.  
 Vanner. C. C. and E. C. Pratt. No. 934,693; Sept. 21; Sp. p. 3465; Gaz. vol. 146; p. 603.  
 Vanner feed-distributor. C. P. Whitmore. No. 914,096; Mar. 2; Sp. p. 949; Gaz. vol. 140; p. 149.  
 Vapor-burner. J. T. Jordan. No. 908,466; Jan. 5; Sp. p. 61; Gaz. vol. 138; p. 13.  
 Vapor-burner. F. Rosengren. No. 924,689; June 15; Sp. p. 3434; Gaz. vol. 143; p. 591.  
 Vapor-burner. W. Tuppstedt. No. 925,965; June 22; Sp. p. 6022; Gaz. vol. 143; p. 1040.  
 Vapor-burner. E. O. Risse. No. 930,691; Aug. 10; Sp. p. 2190; Gaz. vol. 145; p. 382.  
 Vapor-burner. W. Chaussé. No. 933,822; Sept. 14; Sp. p. 1751; Gaz. vol. 146; p. 291.  
 Vapor-burner. W. Chaussé. No. 933,823; Sept. 14; Sp. p. 1753; Gaz. vol. 146; p. 291.  
 Vapor-burner. R. C. Bierbower. No. 938,365; Oct. 26; Sp. p. 5817; Gaz. vol. 147; p. 987.  
 Vapor-burner feed device. E. E. Flora. No. 927,784; July 13; Sp. p. 2248; Gaz. vol. 144; p. 388.  
 Vapor burner, Hydrocarbon-. W. J. Fry. No. 909,881; Jan. 19; Sp. p. 2919; Gaz. vol. 138; p. 543.  
 Vapor-burning apparatus. J. H. Miess. No. 944,456; Dec. 28; Sp. p. 5205; Gaz. vol. 149; p. 912.  
 Vapor-electric-apparatus system. F. Conrad. No. 931,114; Aug. 17; Sp. p. 3139; Gaz. vol. 145; p. 549.  
 Vapor-generator. R. W. Zierlein. No. 931,664; Aug. 17; Sp. p. 4282; Gaz. vol. 145; p. 731.  
 Vapor-rectifiers, System of distribution for. F. Conrad. No. 931,115; Aug. 17; Sp. p. 3142; Gaz. vol. 145; p. 550.  
 Vapors issued from volatile liquids, Apparatus for recovering. H. Diamanti and C. Lambert. No. 919,832; Apr. 27; Sp. p. 6178; Gaz. vol. 141; p. 1054.  
 Vaporizer. Z. G. Sholes. No. 929,254; July 27; Sp. p. 5272; Gaz. vol. 144; p. 935.  
 Vaporizer for disinfectants. G. Leininger. No. 930,977; Aug. 10; Sp. p. 2800; Gaz. vol. 145; p. 475.  
 Vaporizer for disinfectants. C. C. Leathers. No. 940,604; Nov. 16; Sp. p. 4783; Gaz. vol. 148; p. 797.  
 Vaporizer for liquid combustibles. E. Hubert. No. 910,685; Jan. 26; Sp. p. 4616; Gaz. vol. 138; p. 840.  
 Vaporizer, Oil-. J. F. Malcom. No. 940,981; Nov. 23; Sp. p. 5597; Gaz. vol. 148; p. 948.  
 Varnish-gum and producing same. J. J. Kessler. No. 922,596; May 25; Sp. p. 5146; Gaz. vol. 142; p. 912.  
 Varnishing-machine. B. L. Bradley. No. 911,471; Feb. 2; Sp. p. 845; Gaz. vol. 139; p. 149.  
 Vase-forming apparatus. J. G. Moritz. No. 909,640; Jan. 12; Sp. p. 2432; Gaz. vol. 138; p. 432.  
 Vase, Self-watering flower-. C. D. Jackson. No. 927,245; July 6; Sp. p. 1124; Gaz. vol. 144; p. 183.  
 Vat: See Hog-cleaning vat; Milk-vat; Rosin-vat.  
 Vault. G. W. Bonnell. No. 919,686; Apr. 27; Sp. p. 5854; Gaz. vol. 141; p. 1005.  
 Vault, Burial-. R. J. Bratton. No. 911,027; Feb. 2; Sp. p. 7; Gaz. vol. 139; p. 4.  
 Vault, Burial-. W. C. Reinmiller and F. L. Campbell. No. 912,414; Feb. 16; Sp. p. 2873; Gaz. vol. 139; p. 521.  
 Vault, Burial-. P. F. Dehr. No. 912,997; Feb. 23; Sp. p. 4086; Gaz. vol. 139; p. 741.  
 Vault, Burial-. C. K. Haw. No. 917,943; Apr. 13; Sp. p. 1980; Gaz. vol. 141; p. 360.  
 Vault, Burial-. A. F. Tarr. No. 918,393; Apr. 13; Sp. p. 2899; Gaz. vol. 141; p. 512.  
 Vault, Burial-. J. W. Chesrown. No. 919,126; Apr. 20; Sp. p. 4478; Gaz. vol. 141; p. 782.

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 Vault Burial. S. E. Burke. No. 928,847; July 20; Sp. p. 4430; Gaz. vol. 144; p. 772.  
 Vault, Burial. J. D. Fowler. No. 929,847; Aug. 3; Sp. p. 483; Gaz. vol. 145; p. 77.  
 Vault, Burial. W. E. Haworth. No. 931,299; Aug. 17; Sp. p. 3562; Gaz. vol. 145; p. 614.  
 Vault, Burial. H. Lanius. No. 938,250; Oct. 26; Sp. p. 5551; Gaz. vol. 147; p. 948.  
 Vault, Burial. G. Hess. No. 938,379; Oct. 26; Sp. p. 5846; Gaz. vol. 147; p. 992.  
 Vault, Burial. W. and A. E. Livingston. No. 943,981; Dec. 21; Sp. p. 4186; Gaz. vol. 149; p. 724.  
 Vault-closure. T. F. Kelly. No. 914,424; Mar. 9; Sp. p. 1637; Gaz. vol. 140; p. 280.  
 Vault-closure. A. M. Myers and W. A. Poister. No. 939,922; Nov. 9; Sp. p. 3242; Gaz. vol. 148; p. 534.  
 Vault core-releasing device, Burial. J. L. Gaskill. No. 909,394; Jan. 12; Sp. p. 1944; Gaz. vol. 138; p. 347.  
 Vault-door. J. C. Sparrow. No. 914,681; Mar. 9; Sp. p. 2166; Gaz. vol. 140; p. 363.  
 Vault, Grave-. S. Fry. No. 941,986; Nov. 30; Sp. p. 7753; Gaz. vol. 148; p. 1306.  
 Vault-head. A. W. Kurz. No. 921,123; May 11; Sp. p. 2097; Gaz. vol. 142; p. 370.  
 Vault or safe. L. H. Bowman and G. L. Damon. No. 918,952; Apr. 20; Sp. p. 4161; Gaz. vol. 141; p. 727.  
 Vault or safe. L. H. Bowman and G. L. Damon. No. 918,953; Apr. 20; Sp. p. 4163; Gaz. vol. 141; p. 727.  
 Vault-vestibule. J. G. Giesting. No. 942,633; Dec. 7; Sp. p. 1253; Gaz. vol. 149; p. 205.  
 Vaults, Mold for concrete burial-. M. J. Demorest. No. 928,638; July 20; Sp. p. 4037; Gaz. vol. 144; p. 703.  
 Vaults, Plastic compound for making burial-. J. H. Colgrove. No. 925,301; June 15; Sp. p. 4660; Gaz. vol. 143; p. 796.  
 Vegetable and pastry cutter, Combined. R. M. and E. J. Spence. No. 944,700; Dec. 28; Sp. p. 5753; Gaz. vol. 149; p. 996.  
 Vegetable butter capable of being spread. F. Kolesch. No. 910,827; Jan. 26; Sp. p. 4907; Gaz. vol. 138; p. 886.  
 Vegetable-cutter. R. L. Dorsey. No. 910,652; Jan. 26; Sp. p. 4567; Gaz. vol. 138; p. 830.  
 Vegetable-cutter. R. L. Dorsey. No. 911,478; Feb. 2; Sp. p. 856; Gaz. vol. 139; p. 151.  
 Vegetable-cutter. S. Gorelick. No. 920,130; May 4; Sp. p. 81; Gaz. vol. 142; p. 11.  
 Vegetable-cutter. J. P. Spacek. No. 925,663; June 22; Sp. p. 5372; Gaz. vol. 143; p. 941.  
 Vegetable-cutter. F. A. Goodykoontz and J. L. Byrne. No. 925,693; June 22; Sp. p. 5431; Gaz. vol. 143; p. 951.  
 Vegetable-cutter. W. S. Myers and C. C. Kahne. No. 939,951; Nov. 9; Sp. p. 3298; Gaz. vol. 148; p. 544.  
 Vegetable-cutter. J. Spenko. No. 940,830; Nov. 23; Sp. p. 5297; Gaz. vol. 148; p. 898.  
 Vegetable-cutter. J. Moreau. No. 941,161; Nov. 23; Sp. p. 5992; Gaz. vol. 148; p. 1008.  
 Vegetable-cutter. J. E. Gloekler and A. B. Stahl. No. 944,087; Dec. 21; Sp. p. 4415; Gaz. vol. 149; p. 760.  
 Vegetable-cutting machine. F. Wind. No. 910,159; Jan. 19; Sp. p. 3473; Gaz. vol. 138; p. 636.  
 Vegetable fibers, &c., Means and method for protecting from decomposition and putrefaction. A. Gadd and G. Dillberg. No. 936,113; Oct. 5; Sp. p. 1079; Gaz. vol. 147; p. 165.  
 Vegetable-grater. H. Arnstein. No. 913,187; Feb. 23; Sp. p. 4465; Gaz. vol. 139; p. 804.  
 Vegetable-masher. B. Iitsuka. No. 941,073; Nov. 23; Sp. p. 5801; Gaz. vol. 148; p. 978.  
 Vegetable parer and cutter. M. L. Hawks. No. 911,239; Feb. 2; Sp. p. 433; Gaz. vol. 139; p. 74.  
 Vegetable-separator. N. J. McGoffin. No. 926,281; June 29; Sp. p. 6693; Gaz. vol. 143; p. 1180.  
 Vegetable-topping machine. W. Burdick. No. 920,426; May 4; Sp. p. 689; Gaz. vol. 142; p. 108.  
 Vegetable-washer. G. L. Dexter. No. 917,020; Apr. 6; Sp. p. 121; Gaz. vol. 141; p. 24.  
 Vegetable-washer. A. Williams. No. 919,668; Apr. 27; Sp. p. 5821; Gaz. vol. 141; p. 999.  
 Vegetable-washer. A. M. Jensen. No. 927,051; July 6; Sp. p. 740; Gaz. vol. 144; p. 117.  
 Vegetation-destroying composition. P. Murphy. No. 911,255; Feb. 2; Sp. p. 465; Gaz. vol. 139; p. 80.  
 Vehicle. A. Hage. No. 909,402; Jan. 12; Sp. p. 1960; Gaz. vol. 138; p. 349.  
 Vehicle. R. N. Martz. No. 911,143; Feb. 2; Sp. p. 238; Gaz. vol. 139; p. 42.  
 Vehicle. T. V. Buckwalter. No. 914,111; Mar. 2; Sp. p. 978; Gaz. vol. 140; p. 154.  
 Vehicle. N. C. Whiting. No. 914,212; Mar. 2; Sp. p. 1184; Gaz. vol. 140; p. 186.  
 Vehicle. J. Repetto. No. 914,880; Mar. 9; Sp. p. 2577; Gaz. vol. 140; p. 430.  
 Vehicle. W. W. Cook. No. 916,272; Mar. 23; Sp. p. 5306; Gaz. vol. 140; p. 939.  
 Vehicle. C. de Kandó. No. 917,309; Apr. 6; Sp. p. 728; Gaz. vol. 141; p. 124.  
 Vehicle. P. Forscher. No. 919,337; Apr. 27; Sp. p. 5108; Gaz. vol. 141; p. 886.  
 Vehicle. B. Tippmann. No. 928,564; July 20; Sp. p. 3870; Gaz. vol. 144; p. 677.  
 Vehicle. D. H. James. No. 931,614; Aug. 17; Sp. p. 4174; Gaz. vol. 145; p. 715.  
 Vehicle. C. F. Schmelz. No. 932,333; Aug. 24; Sp. p. 5720; Gaz. vol. 145; p. 976.  
 Vehicle. A. F. Rockwell. No. 942,219; Dec. 7; Sp. p. 410; Gaz. vol. 149; p. 63.  
 Vehicle and cable-reel, Electric. F. L. Sessions. No. 915,311; Mar. 16; Sp. p. 3414; Gaz. vol. 140; p. 596.  
 Vehicle and like tops, Side roller-curtain for. R. R. Nurse. No. 926,589; June 29; Sp. p. 7256; Gaz. vol. 143; p. 1283.  
 Vehicle and truck, Motor. F. Lütke. No. 927,256; July 6; Sp. p. 1148; Gaz. vol. 144; p. 187.  
 Vehicle antivibration device. W. A. Penfield. No. 924,825; June 15; Sp. p. 3722; Gaz. vol. 143; p. 637.  
 Vehicle attachment. C. Todd. No. 912,759; Feb. 16; Sp. p. 3637; Gaz. vol. 139; p. 641.  
 Vehicle attachment. C. A. Zachow. No. 913,608; Feb. 23; Sp. p. 5347; Gaz. vol. 139; p. 946.  
 Vehicle attachment. E. F. Brown. No. 916,529; Mar. 30; Sp. p. 5857; Gaz. vol. 140; p. 1051.  
 Vehicle attachment for detaining draft-animals. C. Reiger. No. 943,100; Dec. 14; Sp. p. 2320; Gaz. vol. 149; p. 394.  
 Vehicle attachment, Self-propelled-. J. Wood. No. 919,990; Apr. 27; Sp. p. 6465; Gaz. vol. 141; p. 1105.  
 Vehicle attachment, Wheeled-. F. D. G. Cook. No. 926,469; June 29; Sp. p. 7045; Gaz. vol. 143; p. 1242.  
 Vehicle automatic brake. F. D. Kaser. No. 931,430; Aug. 17; Sp. p. 3823; Gaz. vol. 145; p. 660.  
 Vehicle-axle. T. D. Jones. No. 908,572; Jan. 5; Sp. p. 291; Gaz. vol. 138; p. 49.  
 Vehicle-axle. D. Davis. No. 910,510; Jan. 26; Sp. p. 4264; Gaz. vol. 138; p. 783.  
 Vehicle-axle. R. C. Martin. No. 911,142; Feb. 2; Sp. p. 236; Gaz. vol. 139; p. 42.  
 Vehicle axle, Motor-road-. L. Renault. No. 916,888; Mar. 30; Sp. p. 6509; Gaz. vol. 140; p. 1163.  
 Vehicle-axle spindle. L. Burg. No. 913,100; Feb. 23; Sp. p. 4279; Gaz. vol. 139; p. 775.  
 Vehicle-axle swaging-machine. F. M. Caesar. No. 914,480; Mar. 9; Sp. p. 1740; Gaz. vol. 140; p. 299.  
 Vehicle-bodies, Detachable floor for. W. B. C. Hershey. No. 940,154; Nov. 16; Sp. p. 3778; Gaz. vol. 148; p. 644.  
 Vehicle-bodies, Mounting or suspension of. C. W. Fulton. No. 944,426; Dec. 28; Sp. p. 5136; Gaz. vol. 149; p. 901.  
 Vehicle-body. E. H. Remde. No. 932,058; Aug. 24; Sp. p. 5188; Gaz. vol. 145; p. 885.  
 Vehicle-body. E. W. Crosby. No. 939,478; Nov. 9; Sp. p. 2296; Gaz. vol. 148; p. 380.  
 Vehicle-body attachment. J. P. Colburn. No. 925,299; June 15; Sp. p. 4654; Gaz. vol. 143; p. 795.  
 Vehicle-body corner-iron. L. W. Loving. No. 917,324; Apr. 6; Sp. p. 758; Gaz. vol. 141; p. 129.  
 Vehicle-body holder. W. C. Burris. No. 909,845; Jan. 12; Sp. p. 2833; Gaz. vol. 138; p. 499.  
 Vehicle-body, Transformable. T. H. Buff. No. 914,334; Mar. 2; Sp. p. 1440; Gaz. vol. 140; p. 223.  
 Vehicle-brake. A. Godfrey. No. 910,123; Jan. 19; Sp. p. 3401; Gaz. vol. 138; p. 624.  
 Vehicle-brake. J. C. McNees. No. 910,946; Jan. 26; Sp. p. 5126; Gaz. vol. 138; p. 923.  
 Vehicle-brake. C. Z. Huffman. No. 917,072; Apr. 6; Sp. p. 217; Gaz. vol. 141; p. 41.  
 Vehicle-brake. H. Copeland. No. 918,129; Apr. 13; Sp. p. 2378; Gaz. vol. 141; p. 426.  
 Vehicle-brake. R. P. Baird. No. 921,788; May 18; Sp. p. 3489; Gaz. vol. 142; p. 620.  
 Vehicle-brake. J. H. Wesson. No. 925,543; June 22; Sp. p. 5120; Gaz. vol. 143; p. 902.  
 Vehicle-brake. F. Gettelman. No. 930,371; Aug. 10; Sp. p. 1516; Gaz. vol. 145; p. 275.  
 Vehicle-brake. W. H. Kirk. No. 931,767; Aug. 24; Sp. p. 4545; Gaz. vol. 145; p. 789.  
 Vehicle-brake. B. P. Trice. No. 933,680; Sept. 7; Sp. p. 1461; Gaz. vol. 146; p. 220.  
 Vehicle-brake. A. P. Peabody. No. 934,752; Sept. 21; Sp. p. 3569; Gaz. vol. 146; p. 622.  
 Vehicle-brake. R. R. Hart. No. 938,322; Oct. 26; Sp. p. 5704; Gaz. vol. 147; p. 972.  
 Vehicle-brake. G. Stables. No. 938,720; Nov. 2; Sp. p. 589; Gaz. vol. 148; p. 92.  
 Vehicle-brake. W. T. Hinshaw. No. 941,876; Nov. 30; Sp. p. 7546; Gaz. vol. 148; p. 1269.  
 Vehicle-brake. F. A. Eigenmann. No. 944,603; Dec. 28; Sp. p. 5558; Gaz. vol. 149; p. 964.  
 Vehicle-brake, Automatic. E. Sanner. No. 924,691; June 15; Sp. p. 3438; Gaz. vol. 143; p. 591.  
 Vehicle-brake, Automatic. G. R. Kelly. No. 931,621; Aug. 17; Sp. p. 4186; Gaz. vol. 145; p. 718.  
 Vehicle-brake, Automatic. C. E. Crumm. No. 941,063; Nov. 23; Sp. p. 5778; Gaz. vol. 148; p. 975.  
 Vehicle-brake mechanism. A. S. Ross. No. 915,796; Mar. 23; Sp. p. 4425; Gaz. vol. 140; p. 786.  
 Vehicle brake-operating mechanism, Motor-. P. Krause. No. 922,916; May 25; Sp. p. 5824; Gaz. vol. 142; p. 1016.  
 Vehicle brake-shoe and holder. T. J. Tubb and L. M. Sheldon. No. 910,101; Jan. 19; Sp. p. 3362; Gaz. vol. 138; p. 618.  
 Vehicle brake, Tramway and railway. E. Jones. No. 913,825; Mar. 2; Sp. p. 301; Gaz. vol. 140; p. 52.  
 Vehicle-bumper. H. H. Gardner. No. 911,715; Feb. 9; Sp. p. 1380; Gaz. vol. 139; p. 256.  
 Vehicle-canopies, Head and rib for. W. J. Slyder. No. 932,339; Aug. 24; Sp. p. 5731; Gaz. vol. 145; p. 978.  
 Vehicle canopy-top. J. Reid. No. 941,274; Nov. 23; Sp. p. 6249; Gaz. vol. 148; p. 1046.



*Alphabetical list of inventions—Continued.*

- Vehicle-charging wall-socket and plug, Electric. J. N. Davis. No. 921,959; May 18; Sp. p. 3850; Gaz. vol. 142; p. 674.
- Vehicle-check. A. L. Swearingen. No. 914,894; Mar. 9; Sp. p. 2602; Gaz. vol. 140; p. 435.
- Vehicle compensating elastic suspension device. R. Bonnevie. No. 910,491; Jan. 26; Sp. p. 4225; Gaz. vol. 138; p. 777.
- Vehicle connection. J. J. Wescott. No. 930,636; Aug. 10; Sp. p. 2091; Gaz. vol. 145; p. 365.
- Vehicle construction, Motor-. E. Gruenfeldt. No. 941,517; Nov. 30; Sp. p. 6775; Gaz. vol. 148; p. 1147.
- Vehicle-controlling device. R. Werkner. No. 927,014; July 6; Sp. p. 642; Gaz. vol. 144; p. 105.
- Vehicle controlling device, Motor-. T. L. and T. J. Sturtevant. No. 910,432; Jan. 19; Sp. p. 4090; Gaz. vol. 138; p. 733.
- Vehicle controlling means, Motor-. W. F. Richards. No. 912,489; Feb. 16; Sp. p. 3019; Gaz. vol. 139; p. 546.
- Vehicle, Convertible. C. H. Stratton. No. 921,177; May 11; Sp. p. 2205; Gaz. vol. 142; p. 389.
- Vehicle-coupling. J. Sieh. No. 910,592; Jan. 26; Sp. p. 4449; Gaz. vol. 138; p. 811.
- Vehicle-coupling. A. Weisler. No. 934,250; Sept. 14; Sp. p. 2609; Gaz. vol. 146; p. 431.
- Vehicle-coupling. J. R. White. No. 935,134; Sept. 28; Sp. p. 4356; Gaz. vol. 146; p. 777.
- Vehicle coupling device. W. J. Kramer, Jr. No. 944,333; Dec. 28; Sp. p. 4928; Gaz. vol. 149; p. 868.
- Vehicle-cushion. P. F. Guthrie. No. 909,400; Jan. 12; Sp. p. 1957; Gaz. vol. 138; p. 349.
- Vehicle-cushion. J. E. Mossman. No. 937,628; Oct. 19; Sp. p. 4233; Gaz. vol. 147; p. 721.
- Vehicle cushion-wheel. F. Groff. No. 928,601; July 20; Sp. p. 3961; Gaz. vol. 144; p. 691.
- Vehicle cushioned wheel. W. J. Higman. No. 941,453; Nov. 30; Sp. p. 6642; Gaz. vol. 148; p. 1126.
- Vehicle cushioning device. A. Carpenter and C. C. Kisselle. No. 912,989; Feb. 23; Sp. p. 4068; Gaz. vol. 139; p. 738.
- Vehicle-door. G. E. Seidel. No. 918,204; Apr. 13; Sp. p. 2528; Gaz. vol. 141; p. 451.
- Vehicle drive-gear, Motor-. J. A. Welton. No. 934,117; Sept. 14; Sp. p. 2347; Gaz. vol. 146; p. 385.
- Vehicle driving and transmitting mechanism, Wheeled-. W. D. Marks. No. 918,685; Apr. 20; Sp. p. 3591; Gaz. vol. 141; p. 637.
- Vehicle driving-gear, Motor-. H. L. Parrish. No. 924,821; June 15; Sp. p. 3708; Gaz. vol. 143; p. 635.
- Vehicle driving-gear, Motor-. A. R. Corrington. No. 944,600; Dec. 28; Sp. p. 5553; Gaz. vol. 149; p. 963.
- Vehicle driving mechanism, Motor-driven-. S. M. Vaulchain. No. 922,367; May 18; Sp. p. 4645; Gaz. vol. 142; p. 807.
- Vehicle, Dumping-. J. W. King. No. 908,869; Jan. 5; Sp. p. 907; Gaz. vol. 138; p. 144.
- Vehicle, Dumping-. P. Brand and C. G. Glasrud. No. 929,382; July 27; Sp. p. 5585; Gaz. vol. 144; p. 979.
- Vehicle, Dumping-. C. Miller. No. 938,012; Oct. 26; Sp. p. 5032; Gaz. vol. 147; p. 866.
- Vehicle, Dumping-. W. H. Phillips. No. 940,721; Nov. 23; Sp. p. 5047; Gaz. vol. 148; p. 862.
- Vehicle electrical-control system, Motor-. E. Gruenfeldt. No. 913,283; Feb. 23; Sp. p. 4659; Gaz. vol. 139; p. 836.
- Vehicle, Electrically-propelled road-. H. Ducasse. No. 915,667; Mar. 16; Sp. p. 4166; Gaz. vol. 140; p. 718.
- Vehicle emergency-stop, Motor-. P. Krause. No. 918,680; Apr. 20; Sp. p. 3576; Gaz. vol. 141; p. 635.
- Vehicle exhaust-dissipating apparatus, Motor-. G. E. Whitney. No. 922,741; May 25; Sp. p. 5447; Gaz. vol. 142; p. 959.
- Vehicle extension-top. W. Leppert. No. 914,961; Mar. 9; Sp. p. 2708; Gaz. vol. 140; p. 456.
- Vehicle fare-register. R. G. Popp and A. L. de Horevitz. No. 912,728; Feb. 16; Sp. p. 3563; Gaz. vol. 139; p. 630.
- Vehicle-fender. C. W. M. Guhle. No. 938,053; Oct. 26; Sp. p. 5118; Gaz. vol. 147; p. 880.
- Vehicle, Folding. E. Gundelach. No. 910,372; Jan. 19; Sp. p. 3959; Gaz. vol. 138; p. 712.
- Vehicle foot-board. J. Hage. No. 931,601; Aug. 17; Sp. p. 4132; Gaz. vol. 145; p. 711.
- Vehicle, Foot-propelled. N. R. Thibert. No. 941,471; Nov. 30; Sp. p. 6682; Gaz. vol. 148; p. 1132.
- Vehicle foot-rest. A. E. Smith. No. 912,429; Feb. 16; Sp. p. 2899; Gaz. vol. 139; p. 326.
- Vehicle for hospital and other purposes. W. F. Bernstein. No. 922,841; May 25; Sp. p. 5657; Gaz. vol. 142; p. 991.
- Vehicle-frame. C. J. Slater. No. 922,351; May 18; Sp. p. 4611; Gaz. vol. 142; p. 801.
- Vehicle frame, Motor-. C. Schmidt. No. 924,941; June 15; Sp. p. 3956; Gaz. vol. 143; p. 676.
- Vehicle front or platform gear. J. Erret. No. 922,869; May 25; Sp. p. 5744; Gaz. vol. 142; p. 1001.
- Vehicle-gear. F. J. Paxton. No. 927,276; July 6; Sp. p. 1179; Gaz. vol. 144; p. 193.
- Vehicle gear-casing, Motor-. J. C. Lott. No. 935,036; Sept. 28; Sp. p. 4142; Gaz. vol. 146; p. 742.
- Vehicle-gear, Pneumatic. L. J. Perkins. No. 935,811; Oct. 5; Sp. p. 458; Gaz. vol. 147; p. 65.
- Vehicle-gear, Short-turn. T. Sandstrom. No. 920,662; May 4; Sp. p. 1151; Gaz. vol. 142; p. 187.
- Vehicle-indicator. B. Roman. No. 918,701; Apr. 20; Sp. p. 3633; Gaz. vol. 141; p. 644.
- Vehicle jack and lifter. D. L. Stearns. No. 923,454; June 1; Sp. p. 772; Gaz. vol. 143; p. 114.
- Vehicle lamp, Motor-road-. C. Davis. No. 912,232; Feb. 9; Sp. p. 2439; Gaz. vol. 139; p. 421.
- Vehicle, Land and water. J. Matthews. No. 944,044; Dec. 21; Sp. p. 4327; Gaz. vol. 149; p. 746.
- Vehicle lifting-jack. A. P. Cottrell. No. 914,245; Mar. 2; Sp. p. 1259; Gaz. vol. 140; p. 196.
- Vehicle-lock. A. G. Feistel. No. 918,741; Apr. 20; Sp. p. 3706; Gaz. vol. 141; p. 657.
- Vehicle, Motor-. S. R. Brinard. No. 912,798; Feb. 16; Sp. p. 3716; Gaz. vol. 139; p. 653.
- Vehicle, Motor-. N. S. Dunaway. No. 914,933; Mar. 9; Sp. p. 2661; Gaz. vol. 140; p. 446.
- Vehicle, Motor-. R. Huff. No. 915,769; Mar. 23; Sp. p. 4388; Gaz. vol. 140; p. 778.
- Vehicle, Motor-. C. Durkee. No. 917,422; Apr. 6; Sp. p. 930; Gaz. vol. 141; p. 161.
- Vehicle, Motor-. J. N. Leach. No. 917,465; Apr. 6; Sp. p. 1002; Gaz. vol. 141; p. 175.
- Vehicle, Motor-. R. Huff. No. 920,142; May 4; Sp. p. 101; Gaz. vol. 142; p. 15.
- Vehicle, Motor-. S. B. Gray. No. 923,167; June 1; Sp. p. 97; Gaz. vol. 143; p. 16.
- Vehicle, Motor-. S. B. Gray. No. 923,789; June 1; Sp. p. 1538; Gaz. vol. 143; p. 231.
- Vehicle, Motor-. L. S. Ross. No. 926,290; June 29; Sp. p. 6707; Gaz. vol. 143; p. 1183.
- Vehicle, Motor-. H. P. Haushalter. No. 926,411; June 29; Sp. p. 6939; Gaz. vol. 143; p. 1222.
- Vehicle, Motor-. G. T. Glover. No. 926,938; July 6; Sp. p. 480; Gaz. vol. 144; p. 78.
- Vehicle, Motor-. A. W. Harpstrite. No. 927,463; July 6; Sp. p. 1551; Gaz. vol. 144; p. 255.
- Vehicle, Motor-. J. W. Davis. No. 928,110; July 13; Sp. p. 2903; Gaz. vol. 144; p. 496.
- Vehicle, Motor-. J. K. Sharpe, Jr., and C. N. Leonard. No. 929,794; Aug. 3; Sp. p. 345; Gaz. vol. 145; p. 58.
- Vehicle, Motor-. L. G. Nilson. No. 932,312; Aug. 24; Sp. p. 5676; Gaz. vol. 145; p. 968.
- Vehicle, Motor-. A. Loomis. No. 935,211; Sept. 28; Sp. p. 4501; Gaz. vol. 146; p. 800.
- Vehicle, Motor-. R. H. Bowman. No. 935,582; Sept. 28; Sp. p. 5263; Gaz. vol. 146; p. 923.
- Vehicle, Motor-. H. Pieper. No. 937,859; Oct. 26; Sp. p. 4716; Gaz. vol. 147; p. 816.
- Vehicle, Motor-. B. D. Gray. No. 940,145; Nov. 16; Sp. p. 3764; Gaz. vol. 148; p. 641.
- Vehicle, Motor-. F. E. Case. No. 940,511; Nov. 16; Sp. p. 4597; Gaz. vol. 148; p. 767.
- Vehicle, Motor-. J. A. Charter. No. 941,129; Nov. 23; Sp. p. 5926; Gaz. vol. 148; p. 997.
- Vehicle, Motor-. W. S. Hovey and C. B. Stebbins. No. 944,556; Dec. 28; Sp. p. 5445; Gaz. vol. 149; p. 947.
- Vehicle motor fore-carriage. E. Vignie and R. G. Forget. No. 938,094; Oct. 26; Sp. p. 5215; Gaz. vol. 147; p. 894.
- Vehicle, Motor road-. E. Surcouf. No. 914,201; Mar. 2; Sp. p. 1170; Gaz. vol. 140; p. 183.
- Vehicle-movement-controlling means. F. E. Kinsman. No. 911,595; Feb. 9; Sp. p. 1113; Gaz. vol. 139; p. 216.
- Vehicle mud-guard. H. J. Shrapnel. No. 935,276; Sept. 28; Sp. p. 4627; Gaz. vol. 146; p. 822.
- Vehicle pneumatic brake, Motor-. E. E. Sweet. No. 925,528; June 22; Sp. p. 5093; Gaz. vol. 143; p. 897.
- Vehicle pneumatic buffer, Self-propelled. M. P. Hayward. No. 914,831; Mar. 9; Sp. p. 2474; Gaz. vol. 140; p. 414.
- Vehicle propelling means. J. C. Leydori. No. 942,000; Nov. 30; Sp. p. 773; Gaz. vol. 148; p. 1310.
- Vehicle propelling mechanism. W. H. Summers. No. 915,058; Mar. 9; Sp. p. 2868; Gaz. vol. 140; p. 486.
- Vehicle propelling mechanism, Motor-. S. S. Morton. No. 914,968; Mar. 9; Sp. p. 2717; Gaz. vol. 140; p. 457.
- Vehicle propelling mechanism, Motor-driven-. A. Winton and H. B. Anderson. No. 922,372; May 18; Sp. p. 4666; Gaz. vol. 142; p. 809.
- Vehicle-reach. C. C. Clark. No. 934,595; Sept. 21; Sp. p. 3258; Gaz. vol. 146; p. 568.
- Vehicle-reach. M. R. Hull. No. 937,940; Oct. 26; Sp. p. 4883; Gaz. vol. 147; p. 843.
- Vehicle reach attachment. J. Rodgers. No. 929,020; July 27; Sp. p. 4799; Gaz. vol. 144; p. 858.
- Vehicle recoil-check. H. A. House. No. 915,440; Mar. 16; Sp. p. 3678; Gaz. vol. 140; p. 639.
- Vehicle rein-holder. W. W. Hills. No. 929,592; July 27; Sp. p. 5946; Gaz. vol. 144; p. 1046.
- Vehicle, Road-. J. Hopper. No. 932,551; Aug. 31; Sp. p. 6181; Gaz. vol. 145; p. 1071.
- Vehicle rubber cable and tire. R. B. Calcutt. No. 916,992; Apr. 6; Sp. p. 53; Gaz. vol. 141; p. 14.
- Vehicle running-gear. J. H. Hand. No. 909,086; Jan. 5; Sp. p. 1341; Gaz. vol. 138; p. 215.
- Vehicle running-gear. M. W. Heyenga. No. 925,579; June 22; Sp. p. 5194; Gaz. vol. 143; p. 914.
- Vehicle running-gear. I. E. Palmer. No. 938,782; Nov. 2; Sp. p. 707; Gaz. vol. 148; p. 114.
- Vehicle running-gear. I. E. Palmer. No. 938,784; Nov. 2; Sp. p. 715; Gaz. vol. 148; p. 115.
- Vehicle running-gear attachment. C. E. Abrams and C. H. Mason. No. 925,740; June 22; Sp. p. 5543; Gaz. vol. 143; p. 966.
- Vehicle running-gear, Four-wheeled-. R. Pintsch. No. 917,127; Apr. 6; Sp. p. 345; Gaz. vol. 141; p. 61.
- Vehicle running-gear frame-section. G. Higley. No. 911,240; Feb. 2; Sp. p. 434; Gaz. vol. 139; p. 75.
- Vehicle safety-strap and bracket, Motor-. R. Huff. No. 913,139; Feb. 23; Sp. p. 4366; Gaz. vol. 139; p. 789.
- Vehicle sand-band. R. E. Gay. No. 920,897; May 4; Sp. p. 1646; Gaz. vol. 142; p. 263.
- Vehicle-seat. J. Lamont and D. E. McComb. No. 922,157; May 18; Sp. p. 4235; Gaz. vol. 142; p. 740.

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- Vehicle-seat. E. H. Faile. No. 930,061; Aug. 3; Sp. p. 924; Gaz. vol. 145; p. 148.  
 Vehicle-seat. J. Benson. No. 936,513; Oct. 12; Sp. p. 1937; Gaz. vol. 147; p. 320.  
 Vehicle-seat. F. J. Elsner. No. 941,983; Nov. 30; Sp. p. 7748; Gaz. vol. 148; p. 1305.  
 Vehicle-seats, Shifting-rail for. A. E. Smith. No. 942,292; Dec. 7; Sp. p. 565; Gaz. vol. 149; p. 89.  
 Vehicle, Self-propelled. J. L. Van Nort. No. 917,684; Apr. 6; Sp. p. 1398; Gaz. vol. 141; p. 246.  
 Vehicle-shaft holder, Automatic. A. Wetzel. No. 913,247; Feb. 23; Sp. p. 4596; Gaz. vol. 139; p. 824.  
 Vehicle-shaft support. J. R. Scruggs. No. 909,693; Jan. 12; Sp. p. 2539; Gaz. vol. 138; p. 450.  
 Vehicle-shield. J. Hadka. No. 944,783; Dec. 28; Sp. p. 5933; Gaz. vol. 149; p. 1023.  
 Vehicle-shock-absorber. C. M. Kentzinger. No. 913,396; Feb. 23; Sp. p. 4885; Gaz. vol. 139; p. 875.  
 Vehicle-shock-absorber. E. A. and C. A. Garvey. No. 923,162; June 1; Sp. p. 90; Gaz. vol. 143; p. 15.  
 Vehicle-shock-absorber. F. N. Rosenstengel. No. 931,653; Aug. 17; Sp. p. 4261; Gaz. vol. 145; p. 727.  
 Vehicle-shock-absorber. F. G. Koehler. No. 944,446; Dec. 28; Sp. p. 5175; Gaz. vol. 149; p. 908.  
 Vehicle-shock-absorber. F. G. Koehler. No. 944,674; Dec. 28; Sp. p. 5690; Gaz. vol. 149; p. 987.  
 Vehicle-shock-absorber. F. G. Koehler. No. 944,675; Dec. 28; Sp. p. 5692; Gaz. vol. 149; p. 987.  
 Vehicle-shock-absorber. F. G. Koehler. No. 944,676; Dec. 28; Sp. p. 5694; Gaz. vol. 149; p. 988.  
 Vehicle-shock-absorber. F. G. Koehler. No. 944,677; Dec. 28; Sp. p. 5695; Gaz. vol. 149; p. 988.  
 Vehicle-shock-absorbing device. C. H. Foster. No. 918,987; Apr. 20; Sp. p. 4229; Gaz. vol. 141; p. 738.  
 Vehicle, Short-turn. H. F. Gleason. No. 915,344; Mar. 16; Sp. p. 3480; Gaz. vol. 140; p. 607.  
 Vehicle-signal. J. A. McVickar. No. 935,855; Oct. 5; Sp. p. 545; Gaz. vol. 147; p. 78.  
 Vehicle-spring. M. M. McIntyre. No. 911,151; Feb. 2; Sp. p. 257; Gaz. vol. 139; p. 45.  
 Vehicle-spring. A. Carpenter and C. C. Kisselle. No. 912,988; Feb. 23; Sp. p. 4067; Gaz. vol. 139; p. 738.  
 Vehicle-spring. R. Mulholland. No. 913,668; Feb. 23; Sp. p. 5485; Gaz. vol. 139; p. 966.  
 Vehicle-spring. W. W. Blair. No. 915,264; Mar. 16; Sp. p. 3329; Gaz. vol. 140; p. 581.  
 Vehicle-spring. J. F. Beatty. No. 915,326; Mar. 16; Sp. p. 3449; Gaz. vol. 140; p. 601.  
 Vehicle-spring. F. N. Emley. No. 915,337; Mar. 16; Sp. p. 3470; Gaz. vol. 140; p. 605.  
 Vehicle-spring. C. Owens. No. 915,470; Mar. 16; Sp. p. 3734; Gaz. vol. 140; p. 649.  
 Vehicle-spring. R. Lancaster. No. 917,953; Apr. 13; Sp. p. 1996; Gaz. vol. 141; p. 363.  
 Vehicle-spring. J. A. Grandy. No. 920,321; May 4; Sp. p. 477; Gaz. vol. 142; p. 74.  
 Vehicle-spring. E. F. Brown. No. 920,910; May 11; Sp. p. 1672; Gaz. vol. 142; p. 295.  
 Vehicle-spring. E. M. Mayhew. No. 912,862; May 18; Sp. p. 3659; Gaz. vol. 142; p. 644.  
 Vehicle-spring. L. C. Burnet. No. 921,947; May 18; Sp. p. 3831; Gaz. vol. 142; p. 971.  
 Vehicle-spring. L. C. Burnet. No. 922,454; May 25; Sp. p. 4846; Gaz. vol. 142; p. 865.  
 Vehicle-spring. E. L. Barton. No. 923,107; May 25; Sp. p. 6210; Gaz. vol. 142; p. 1076.  
 Vehicle-spring. C. C. Hayes. No. 927,797; July 13; Sp. p. 2273; Gaz. vol. 144; p. 393.  
 Vehicle-spring. E. Bollbach and A. Wainzioch. No. 928,242; July 20; Sp. p. 3199; Gaz. vol. 144; p. 571.  
 Vehicle-spring. J. N. Brewster. No. 931,990; Aug. 24; Sp. p. 5030; Gaz. vol. 145; p. 862.  
 Vehicle-spring. F. Berger. No. 932,241; Aug. 24; Sp. p. 5550; Gaz. vol. 145; p. 945.  
 Vehicle-spring clip. R. Jardine. No. 912,684; Feb. 16; Sp. p. 3442; Gaz. vol. 139; p. 614.  
 Vehicle-spring-fork, Wheeled. J. W. Gates. No. 940,245; Nov. 16; Sp. p. 3976; Gaz. vol. 148; p. 676.  
 Vehicle-spring shock-absorber. M. D. Shilling. No. 921,471; May 11; Sp. p. 2834; Gaz. vol. 142; p. 487.  
 Vehicle-spring shock-absorbing mechanism. W. P. Kidder. No. 911,402; Feb. 2; Sp. p. 738; Gaz. vol. 139; p. 127.  
 Vehicle-spring-wheel. T. S. Dunn. No. 927,511; July 13; Sp. p. 1666; Gaz. vol. 144; p. 298.  
 Vehicle-starter. O. David. No. 913,625; Feb. 23; Sp. p. 5386; Gaz. vol. 139; p. 952.  
 Vehicle-steering and turning device. J. M. Eadie. No. 922,757; May 25; Sp. p. 5480; Gaz. vol. 142; p. 964.  
 Vehicle-steering device. E. E. Evans. No. 911,709; Feb. 9; Sp. p. 1369; Gaz. vol. 139; p. 255.  
 Vehicle-steering device, Motor. D. Roberts and C. James. No. 910,232; Jan. 19; Sp. p. 3648; Gaz. vol. 138; p. 663.  
 Vehicle-steering-gear. D. E. Ross. No. 923,583; June 1; Sp. p. 1057; Gaz. vol. 143; p. 161.  
 Vehicle-steering-gear. S. D. and H. T. Latty. No. 926,753; July 6; Sp. p. 99; Gaz. vol. 144; p. 15.  
 Vehicle-steering-gear. E. N. Daniels. No. 934,144; Sept. 14; Sp. p. 2411; Gaz. vol. 146; p. 395.  
 Vehicle-steering-gear. R. H. Bowman. No. 935,293; Sept. 28; Sp. p. 4659; Gaz. vol. 146; p. 827.  
 Vehicle-steering-gear. J. A. Wilson, Jr. No. 939,180; Nov. 2; Sp. p. 1563; Gaz. vol. 148; p. 253.  
 Vehicle-steering-gear attachment, Motor. F. Grime. No. 935,601; Sept. 28; Sp. p. 5295; Gaz. vol. 146; p. 929.  
 Vehicle-steering-gear, Motor. D. H. Coles. No. 914,019; Mar. 2; Sp. p. 799; Gaz. vol. 140; p. 122.  
 Vehicle-steering-gear, Wheeled. H. E. Heath. No. 918,546; Apr. 20; Sp. p. 3235; Gaz. vol. 141; p. 590.  
 Vehicle-steering mechanism. A. F. Rockwell. No. 922,044; May 18; Sp. p. 4019; Gaz. vol. 142; p. 703.  
 Vehicle-steering mechanism, Motor. E. R. Halsey. No. 913,494; Feb. 23; Sp. p. 5079; Gaz. vol. 139; p. 907.  
 Vehicle-steering mechanism, Self-propelled. D. H. Coles. No. 914,018; Mar. 2; Sp. p. 794; Gaz. vol. 140; p. 122.  
 Vehicle-steering mechanism, Self-propelled. R. Fuller. No. 924,757; June 15; Sp. p. 3574; Gaz. vol. 143; p. 614.  
 Vehicle-storm-front. G. W. Scott. No. 909,237; Jan. 12; Sp. p. 1652; Gaz. vol. 138; p. 297.  
 Vehicle-storm-front. D. Argerbright. No. 916,089; Mar. 23; Sp. p. 4974; Gaz. vol. 140; p. 881.  
 Vehicle-storm-front. D. Argerbright. No. 916,090; Mar. 23; Sp. p. 4976; Gaz. vol. 140; p. 881.  
 Vehicle-storm-front. G. W. Scott. No. 929,331; July 27; Sp. p. 5493; Gaz. vol. 144; p. 963.  
 Vehicle-support, Rubber-tire. H. Freye. No. 926,478; June 29; Sp. p. 7062; Gaz. vol. 143; p. 1245.  
 Vehicle-suspension. E. Batault and A. Gady. No. 913,349; Feb. 23; Sp. p. 4793; Gaz. vol. 139; p. 859.  
 Vehicle-suspension. F. D. Brown and W. D. Whitney. No. 923,764; June 1; Sp. p. 1437; Gaz. vol. 143; p. 223.  
 Vehicle-thill, Adjustable. G. H. Mathews. No. 909,310; Jan. 12; Sp. p. 1796; Gaz. vol. 138; p. 322.  
 Vehicle, Tilting ammunition. W. Mayer. No. 911,830; Feb. 9; Sp. p. 1577; Gaz. vol. 139; p. 293.  
 Vehicle-tire. J. F. Willmot. No. 909,978; Jan. 19; Sp. p. 3118; Gaz. vol. 138; p. 577.  
 Vehicle-tire. E. Knowles. No. 910,134; Jan. 19; Sp. p. 3426; Gaz. vol. 138; p. 628.  
 Vehicle-tire. E. B. Calcutt. No. 914,481; Mar. 9; Sp. p. 1742; Gaz. vol. 140; p. 299.  
 Vehicle-tire-filling compound. J. F. West, F. S. Masters, and W. E. Lott. No. 909,976; Jan. 19; Sp. p. 3116; Gaz. vol. 138; p. 577.  
 Vehicle-top, Collapsible. C. J. Tucker. No. 936,960; Oct. 12; Sp. p. 2824; Gaz. vol. 147; p. 470.  
 Vehicle-top door. F. E. Heymann. No. 936,892; Oct. 12; Sp. p. 2688; Gaz. vol. 147; p. 448.  
 Vehicle-top, Foldable. W. S. Butler. No. 928,584; July 20; Sp. p. 3918; Gaz. vol. 144; p. 684.  
 Vehicle-top-joint brace. J. C. Coss. No. 943,655; Dec. 21; Sp. p. 3521; Gaz. vol. 149; p. 613.  
 Vehicle-top-shifting rail. A. J. Murray. No. 929,237; July 27; Sp. p. 5244; Gaz. vol. 144; p. 929.  
 Vehicle, Trackless power-driven. I. E. Palmer. No. 938,783; Nov. 2; Sp. p. 712; Gaz. vol. 148; p. 115.  
 Vehicle, Trackless power-driven. I. E. Palmer. No. 938,786; Nov. 2; Sp. p. 719; Gaz. vol. 148; p. 116.  
 Vehicle, Trackless power-driven. I. E. Palmer. No. 939,077; Nov. 2; Sp. p. 1334; Gaz. vol. 148; p. 217.  
 Vehicle, Trackless power-driven. I. E. Palmer. No. 939,158; Nov. 2; Sp. p. 1516; Gaz. vol. 148; p. 246.  
 Vehicle transmission-gearing. L. A. Frayer and C. O. Howard. No. 909,994; Jan. 19; Sp. p. 3153; Gaz. vol. 138; p. 582.  
 Vehicle umbrellas and canopies, Support for. H. L. Johnston. No. 918,056; Apr. 13; Sp. p. 2230; Gaz. vol. 141; p. 401.  
 Vehicle ventilating device. F. B. Pope and W. J. Lester. No. 943,889; Dec. 21; Sp. p. 3985; Gaz. vol. 149; p. 692.  
 Vehicle-ventilator. F. R. Harvey. No. 938,232; Oct. 26; Sp. p. 5516; Gaz. vol. 147; p. 943.  
 Vehicle-wheel. G. A. Budge. No. 908,442; Jan. 5; Sp. p. 17; Gaz. vol. 138; p. 4.  
 Vehicle-wheel. C. Stanley. No. 909,034; Jan. 5; Sp. p. 1228; Gaz. vol. 138; p. 197.  
 Vehicle-wheel. N. E. Meredith. No. 910,009; Jan. 19; Sp. p. 3178; Gaz. vol. 138; p. 587.  
 Vehicle-wheel. C. E. Harris. No. 910,193; Jan. 19; Sp. p. 3556; Gaz. vol. 138; p. 647.  
 Vehicle-wheel. G. Vinet. No. 910,612; Jan. 26; Sp. p. 4496; Gaz. vol. 138; p. 818.  
 Vehicle-wheel. N. G. Long. No. 911,826; Feb. 9; Sp. p. 1571; Gaz. vol. 139; p. 292.  
 Vehicle-wheel. W. A. Gruenewald and E. G. Wright. No. 912,119; Feb. 9; Sp. p. 2240; Gaz. vol. 139; p. 387.  
 Vehicle-wheel. M. M. Bailey. No. 912,438; Feb. 16; Sp. p. 2918; Gaz. vol. 139; p. 529.  
 Vehicle-wheel. T. Midgley. No. 913,219; Feb. 23; Sp. p. 4527; Gaz. vol. 139; p. 815.  
 Vehicle-wheel. J. E. Harrod. No. 914,659; Mar. 9; Sp. p. 2096; Gaz. vol. 140; p. 350.  
 Vehicle-wheel. F. Ebner. No. 914,710; Mar. 9; Sp. p. 2225; Gaz. vol. 140; p. 374.  
 Vehicle-wheel. S. H. Garst. No. 915,093; Mar. 16; Sp. p. 2967; Gaz. vol. 140; p. 525.  
 Vehicle-wheel. T. Midgley. No. 915,304; Mar. 16; Sp. p. 3406; Gaz. vol. 140; p. 594.  
 Vehicle-wheel. C. W. French. No. 915,585; Mar. 16; Sp. p. 3979; Gaz. vol. 140; p. 687.  
 Vehicle-wheel. W. S. Plummer. No. 916,009; Mar. 23; Sp. p. 4829; Gaz. vol. 140; p. 854.  
 Vehicle-wheel. W. J. Doyle. No. 916,122; Mar. 23; Sp. p. 5033; Gaz. vol. 140; p. 892.  
 Vehicle-wheel. J. E. Hallett. No. 916,551; Mar. 30; Sp. p. 5903; Gaz. vol. 140; p. 1059.  
 Vehicle-wheel. G. W. Morris. No. 917,883; Apr. 13; Sp. p. 1857; Gaz. vol. 141; p. 339.



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 Vehicle-wheel. L. W. Barnhart. No. 918,644; Apr. 20; Sp. p. 3486; Gaz. vol. 141; p. 623.  
 Vehicle-wheel. M. T. Long. No. 918,756; Apr. 20; Sp. p. 3732; Gaz. vol. 141; p. 662.  
 Vehicle-wheel. T. B. Jeffery. No. 919,358; Apr. 27; Sp. p. 5144; Gaz. vol. 141; p. 892.  
 Vehicle-wheel. W. H. Clausen. No. 919,826; Apr. 27; Sp. p. 6166; Gaz. vol. 141; p. 1051.  
 Vehicle-wheel. H. O. Jackson. No. 920,468; May 4; Sp. p. 756; Gaz. vol. 142; p. 122.  
 Vehicle-wheel. H. O. Jackson. No. 920,469; May 4; Sp. p. 758; Gaz. vol. 142; p. 122.  
 Vehicle-wheel. E. E. Michelin. No. 920,603; May 4; Sp. p. 1029; Gaz. vol. 142; p. 167.  
 Vehicle-wheel. G. R. Williams. No. 921,493; May 11; Sp. p. 2573; Gaz. vol. 142; p. 494.  
 Vehicle-wheel. E. S. Kintz. No. 922,597; May 25; Sp. p. 5147; Gaz. vol. 142; p. 912.  
 Vehicle-wheel. F. Bradley and F. H. Fairchild. No. 924,139; June 8; Sp. p. 2254; Gaz. vol. 143; p. 373.  
 Vehicle-wheel. J. R. Fouch. No. 924,334; June 8; Sp. p. 2707; Gaz. vol. 143; p. 441.  
 Vehicle-wheel. L. A. Hill. No. 924,614; June 8; Sp. p. 3267; Gaz. vol. 143; p. 532.  
 Vehicle-wheel. H. O. Peck. No. 925,021; June 15; Sp. p. 4129; Gaz. vol. 143; p. 703.  
 Vehicle-wheel. H. O. Peck. No. 925,022; June 15; Sp. p. 4131; Gaz. vol. 143; p. 703.  
 Vehicle-wheel. R. H. Rice. No. 925,027; June 15; Sp. p. 4147; Gaz. vol. 143; p. 705.  
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 Vehicle-wheel. G. C. Grable. No. 926,650; June 29; Sp. p. 7383; Gaz. vol. 143; p. 1302.  
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 Vehicle-wheel. J. Sinnott. No. 926,830; July 6; Sp. p. 264; Gaz. vol. 144; p. 42.  
 Vehicle-wheel. E. S. Standcliff. No. 927,891; July 13; Sp. p. 2481; Gaz. vol. 144; p. 424.  
 Vehicle-wheel. W. L. Howard. No. 929,437; July 27; Sp. p. 5670; Gaz. vol. 144; p. 936.  
 Vehicle-wheel. J. C. Willmon. No. 930,111; Aug. 3; Sp. p. 1031; Gaz. vol. 145; p. 166.  
 Vehicle-wheel. Z. A. Curtis. No. 930,355; Aug. 10; Sp. p. 1477; Gaz. vol. 145; p. 270.  
 Vehicle-wheel. W. E. Killen and E. C. Phillips. No. 930,769; Aug. 10; Sp. p. 2358; Gaz. vol. 145; p. 408.  
 Vehicle-wheel. B. C. Oblinger. No. 931,214; Aug. 17; Sp. p. 3363; Gaz. vol. 145; p. 584.  
 Vehicle-wheel. C. L. Shaw. No. 931,505; Aug. 17; Sp. p. 3963; Gaz. vol. 145; p. 683.  
 Vehicle-wheel. T. B. Jeffery. No. 931,615; Aug. 17; Sp. p. 4175; Gaz. vol. 145; p. 716.  
 Vehicle-wheel. W. L. Howard. No. 932,862; Aug. 31; Sp. p. 6835; Gaz. vol. 145; p. 1173.  
 Vehicle-wheel. A. E. Beall and C. F. Skellenger. No. 933,049; Sept. 7; Sp. p. 12; Gaz. vol. 146; p. 4.  
 Vehicle-wheel. S. W. Higgins. No. 933,708; Sept. 7; Sp. p. 1525; Gaz. vol. 146; p. 230.  
 Vehicle-wheel. L. Ingle and C. M. Hart. No. 934,178; Sept. 14; Sp. p. 2466; Gaz. vol. 146; p. 406.  
 Vehicle-wheel. J. H. Van Arsdale. No. 934,773; Sept. 21; Sp. p. 3613; Gaz. vol. 146; p. 630.  
 Vehicle-wheel. J. A. Crandall. No. 934,793; Sept. 21; Sp. p. 3660; Gaz. vol. 146; p. 636.  
 Vehicle-wheel. D. I. Paisner. No. 935,399; Sept. 28; Sp. p. 4870; Gaz. vol. 146; p. 861.  
 Vehicle-wheel. V. E. Van Cantfort. No. 936,587; Oct. 12; Sp. p. 2082; Gaz. vol. 147; p. 345.  
 Vehicle-wheel. J. H. Turner. No. 936,820; Oct. 12; Sp. p. 2543; Gaz. vol. 147; p. 425.  
 Vehicle-wheel. L. Scott. No. 937,340; Oct. 19; Sp. p. 3633; Gaz. vol. 147; p. 624.  
 Vehicle-wheel. J. E. Webster. No. 937,345; Oct. 19; Sp. p. 3638; Gaz. vol. 147; p. 625.  
 Vehicle-wheel. C. A. Lindström. No. 937,618; Oct. 19; Sp. p. 4215; Gaz. vol. 147; p. 717.  
 Vehicle-wheel. E. Hartman. No. 937,798; Oct. 26; Sp. p. 4590; Gaz. vol. 147; p. 795.  
 Vehicle-wheel. E. Hopkinson. No. 937,808; Oct. 26; Sp. p. 4607; Gaz. vol. 147; p. 798.  
 Vehicle-wheel. L. M. Wolffsohn. No. 937,910; Oct. 26; Sp. p. 4818; Gaz. vol. 147; p. 832.  
 Vehicle-wheel. W. D. Triquet. No. 938,184; Oct. 26; Sp. p. 5423; Gaz. vol. 147; p. 925.  
 Vehicle-wheel. T. F. Scott. No. 938,795; Nov. 2; Sp. p. 738; Gaz. vol. 148; p. 119.  
 Vehicle-wheel. E. Dettelbach and E. W. B. Powell. No. 939,190; Nov. 2; Sp. p. 1586; Gaz. vol. 148; p. 256.  
 Vehicle-wheel. L. Garnier. No. 939,681; Nov. 9; Sp. p. 2726; Gaz. vol. 148; p. 450.  
 Vehicle-wheel. T. Hübscher. No. 939,695; Nov. 9; Sp. p. 2756; Gaz. vol. 148; p. 455.  
 Vehicle-wheel. H. O. Clark. No. 941,976; Nov. 30; Sp. p. 7739; Gaz. vol. 148; p. 1304.  
 Vehicle-wheel. E. J. Selley. No. 942,939; Dec. 14; Sp. p. 1944; Gaz. vol. 149; p. 338.  
 Vehicle-wheel. A. Graff. No. 943,112; Dec. 14; Sp. p. 2345; Gaz. vol. 149; p. 398.  
 Vehicle-wheel. H. O. Peck. No. 943,563; Dec. 14; Sp. p. 3275; Gaz. vol. 149; p. 551.  
 Vehicle-wheel. H. O. Peck. No. 943,564; Dec. 14; Sp. p. 3277; Gaz. vol. 149; p. 552.  
 Vehicle-wheel. W. J. Bauer. No. 944,309; Dec. 28; Sp. p. 4881; Gaz. vol. 149; p. 860.  
 Vehicle-wheel. F. P. Vaughan. No. 944,641; Dec. 28; Sp. p. 5627; Gaz. vol. 149; p. 976.  
 Vehicle-wheel bearing. G. A. Schacht. No. 918,600; Apr. 20; Sp. p. 3343; Gaz. vol. 141; p. 608.  
 Vehicle-wheel brake-shoe. J. Earlam and J. Wild. No. 912,369; Feb. 16; Sp. p. 2776; Gaz. vol. 139; p. 506.  
 Vehicle-wheel cushion-tire. E. J. Duff. No. 912,943; Feb. 16; Sp. p. 3960; Gaz. vol. 139; p. 697.  
 Vehicle-wheel cushion-tire. B. F. Fry. No. 914,036; Mar. 2; Sp. p. 832; Gaz. vol. 140; p. 128.  
 Vehicle-wheel, Cushioned. W. C. McCarty. No. 924,621; June 8; Sp. p. 3283; Gaz. vol. 143; p. 535.  
 Vehicle-wheel designated as double safety bolster-wheel. L. Clark. No. 919,825; Apr. 27; Sp. p. 6163; Gaz. vol. 141; p. 1051.  
 Vehicle-wheel, Elastic-tread. J. Murrey. No. 927,578; July 13; Sp. p. 1790; Gaz. vol. 144; p. 319.  
 Vehicle-wheel, Flexible-rim. J. Corrigan. No. 931,999; Aug. 24; Sp. p. 5056; Gaz. vol. 145; p. 865.  
 Vehicle-wheel grip-tread. F. Holan. No. 937,528; Oct. 19; Sp. p. 4049; Gaz. vol. 147; p. 688.  
 Vehicle-wheel, Resilient. H. G. Mackinney. No. 923,436; June 1; Sp. p. 726; Gaz. vol. 143; p. 108.  
 Vehicle-wheel rim. E. C. Shaw. No. 910,733; Jan. 26; Sp. p. 4705; Gaz. vol. 138; p. 855.  
 Vehicle-wheel rim. E. C. Shaw. No. 910,868; Jan. 26; Sp. p. 4980; Gaz. vol. 138; p. 898.  
 Vehicle-wheel rim. E. C. Shaw. No. 910,869; Jan. 26; Sp. p. 4982; Gaz. vol. 138; p. 899.  
 Vehicle-wheel rim-tightener. J. Hamilton. No. 911,403; Feb. 2; Sp. p. 739; Gaz. vol. 139; p. 128.  
 Vehicle-wheel, Road-. F. Shaw. No. 923,205; June 1; Sp. p. 181; Gaz. vol. 143; p. 29.  
 Vehicle-wheel, Road-. J. Henderson. No. 925,908; June 22; Sp. p. 5918; Gaz. vol. 143; p. 1022.  
 Vehicle-wheel, Road-. G. S. Ogilvie. No. 934,341; Sept. 14; Sp. p. 2771; Gaz. vol. 146; p. 460.  
 Vehicle-wheel, Road-. S. M. Brown. No. 935,245; Sept. 28; Sp. p. 4566; Gaz. vol. 146; p. 812.  
 Vehicle-wheel sled-runner. J. Karssen. No. 910,206; Jan. 19; Sp. p. 3592; Gaz. vol. 138; p. 652.  
 Vehicle-wheel, Spring. E. Murray. No. 939,432; Nov. 9; Sp. p. 2196; Gaz. vol. 148; p. 365.  
 Vehicle-wheel tire. A. M. Janofsky. No. 909,419; Jan. 12; Sp. p. 2001; Gaz. vol. 138; p. 356.  
 Vehicle, Wheeled. R. Wolfe. No. 944,645; Dec. 28; Sp. p. 5632; Gaz. vol. 149; p. 977.  
 Vehicle wind-shield. J. V. Laddey. No. 910,694; Jan. 26; Sp. p. 4637; Gaz. vol. 138; p. 843.  
 Vehicle wind-shield. F. A. Dillingham. No. 914,557; Mar. 9; Sp. p. 1902; Gaz. vol. 140; p. 324.  
 Vehicle with three axles, Motor-. A. E. Brillié. No. 915,733; Mar. 23; Sp. p. 4312; Gaz. vol. 140; p. 766.  
 Vehicle-wrench. C. J. Atkins. No. 909,514; Jan. 12; Sp. p. 2194; Gaz. vol. 138; p. 389.  
 Vehicles, Adjustable gripping-link for. C. A. Case. No. 935,586; Sept. 28; Sp. p. 5270; Gaz. vol. 146; p. 924.  
 Vehicles, air-ships, &c., Controlling device for. G. F. Larkin. No. 944,739; Dec. 28; Sp. p. 6147; Gaz. vol. 149; p. 1057.  
 Vehicles and electromotive engines, Device for controlling air-brakes of railway-. J. M. Long. No. 916,737; Mar. 30; Sp. p. 6231; Gaz. vol. 140; p. 1115.  
 Vehicles, Antislipping tread attachment for motor-. M. Jenco. No. 941,993; Nov. 30; Sp. p. 7762; Gaz. vol. 148; p. 1308.  
 Vehicles, Apparatus for regulating and controlling the speed of motor-. F. Loos. No. 927,865; July 13; Sp. p. 2423; Gaz. vol. 144; p. 414.  
 Vehicles, Brake for the steering-wheels of. T. G. Allen. No. 932,234; Aug. 24; Sp. p. 5537; Gaz. vol. 145; p. 943.  
 Vehicles, Combined whip, rein, and lap-rope lock for. O. W. Wilde. No. 944,530; Dec. 28; Sp. p. 5390; Gaz. vol. 149; p. 938.  
 Vehicles, Connection with taximeters or fare-indicators for. C. Mascart. No. 912,704; Feb. 16; Sp. p. 3484; Gaz. vol. 139; p. 621.  
 Vehicles, Coupling for power transmission in motor-. H. E. Coffin. No. 934,043; Sept. 14; Sp. p. 2177; Gaz. vol. 146; p. 360.  
 Vehicles, Device for automatically stopping. S. H. Cluxton. No. 923,020; May 25; Sp. p. 6020; Gaz. vol. 142; p. 1048.  
 Vehicles, Device for clearing obstructions from the path of. H. W. H. Powell and T. S. Safe. No. 931,885; Aug. 24; Sp. p. 4777; Gaz. vol. 145; p. 826.  
 Vehicles, Device for detaching horses from. T. M. Bovard. No. 912,646; Feb. 16; Sp. p. 3348; Gaz. vol. 139; p. 601.  
 Vehicles, Device for indicating the intended movements of. P. S. Douglas-Hamilton. No. 912,831; Feb. 16; Sp. p. 3775; Gaz. vol. 139; p. 664.  
 Vehicles, Draft appliance for self-propelled. D. Dunlap. No. 944,956; Dec. 28; Sp. p. 6286; Gaz. vol. 149; p. 1080.  
 Vehicles, Drive-gear for mechanically-propelled. W. N. Thurman. No. 935,707; Oct. 5; Sp. p. 182; Gaz. vol. 147; p. 28.  
 Vehicles, Fore-carriage of. J. Schmitt. No. 939,555; Nov. 9; Sp. p. 2445; Gaz. vol. 148; p. 406.  
 Vehicles, Front-wheel drive for traction-. L. K. Brown. No. 939,972; Nov. 16; Sp. p. 3348; Gaz. vol. 148; p. 579.  
 Vehicles, Gasolene-tank for motor-. R. Huif. No. 942,907; Dec. 14; Sp. p. 1865; Gaz. vol. 149; p. 328.  
 Vehicles, Gear-actuating mechanism for motor-. G. H. Lanchester. No. 941,261; Nov. 23; Sp. p. 6204; Gaz. vol. 148; p. 1041.

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- Vehicles, Guard or screen for motor road-. O. T. Banks. No. 910,772; Jan. 26; Sp. p. 4796; Gaz. vol. 138; p. 867.
- Vehicles, Hydraulic steering-check for. H. Lemp. No. 927,735; July 13; Sp. p. 2144; Gaz. vol. 144; p. 371.
- Vehicles, Means for preventing rebound in. S. Furnidge. No. 938,733; Nov. 2; Sp. p. 650; Gaz. vol. 148; p. 104.
- Vehicles, Means for reducing air resistance on. G. A. Ahrens. No. 926,971; July 6; Sp. p. 550; Gaz. vol. 144; p. 90.
- Vehicles of any kind, Antivibration device for. G. Huysmans. No. 928,520; July 20; Sp. p. 3779; Gaz. vol. 144; p. 663.
- Vehicles, Pilot-light-shifting attachment for. E. E. Hampton and C. G. Smith. No. 941,574; Nov. 30; Sp. p. 6887; Gaz. vol. 148; p. 1166.
- Vehicles, Pole-attaching means for. J. G. Maloney. No. 940,982; Nov. 23; Sp. p. 5598; Gaz. vol. 148; p. 948.
- Vehicles, Pole-hound attachment for. C. A. Hennecke. No. 937,151; Oct. 19; Sp. p. 3227; Gaz. vol. 147; p. 563.
- Vehicles, Portable track for motor-. D. Roberts and C. James. No. 930,798; Aug. 10; Sp. p. 2408; Gaz. vol. 145; p. 417.
- Vehicles, Registering device for passenger-conveying. E. V. Jacka. No. 930,761; Aug. 10; Sp. p. 2343; Gaz. vol. 145; p. 406.
- Vehicles, Safety device for stopping. T. Quandt and W. Wolff. No. 936,279; Oct. 5; Sp. p. 1394; Gaz. vol. 147; p. 216.
- Vehicles, Sled-runner attachment for wheeled. E. M. Henle. No. 921,109; May 11; Sp. p. 2073; Gaz. vol. 142; p. 365.
- Vehicles, Stalk-cutting attachment for. R. B. Human. No. 928,759; July 20; Sp. p. 4268; Gaz. vol. 144; p. 743.
- Vehicles, Track for single-rail. A. E. Davis. No. 928,184; July 13; Sp. p. 3065; Gaz. vol. 144; p. 522.
- Vehicles, Transmission unit for motor-. H. E. Coffin. No. 935,643; Oct. 5; Sp. p. 32; Gaz. vol. 147; p. 7.
- Vehicles uphill, Device for assisting. S. H. Stevens. No. 936,828; Oct. 12; Sp. p. 2559; Gaz. vol. 147; p. 427.
- Veil-clasp. B. Honsowetz. No. 931,308; Aug. 17; Sp. p. 3586; Gaz. vol. 145; p. 618.
- Velocipede. M. L. Jenkins. No. 914,845; Mar. 9; Sp. p. 2503; Gaz. vol. 140; p. 418.
- Velocipede. C. M. Odle. No. 920,382; May 4; Sp. p. 596; Gaz. vol. 142; p. 95.
- Velocipede. R. V. Jones. No. 922,484; May 25; Sp. p. 4909; Gaz. vol. 142; p. 874.
- Velocipede. M. McGowan. No. 926,131; June 29; Sp. p. 6369; Gaz. vol. 143; p. 1130.
- Velocipede. G. C. Worthington. No. 941,121; Nov. 23; Sp. p. 5902; Gaz. vol. 148; p. 994.
- Velocipede-pedal. E. G. Latta. No. 914,736; Mar. 9; Sp. p. 2285; Gaz. vol. 140; p. 383.
- Velocipede-saddle. F. H. Wilson. No. 917,982; Apr. 13; Sp. p. 2067; Gaz. vol. 141; p. 374.
- Velocipedes, Pumping device for. P. G. Larsson. No. 928,919; July 20; Sp. p. 4586; Gaz. vol. 144; p. 799.
- Velocity recorder, Detonating-. H. F. Mettegang. No. 916,572; Mar. 30; Sp. p. 5937; Gaz. vol. 140; p. 1065.
- Velvets and like pile fabrics, Machine for pegging. F. Shaw. No. 943,167; Dec. 14; Sp. p. 2448; Gaz. vol. 149; p. 416.
- Velvets, plushes, and similar fabrics, Cutting appliance for. P. Hertzog. No. 933,983; Sept. 14; Sp. p. 2073; Gaz. vol. 146; p. 342.
- Vending apparatus. N. J. Matthews. No. 913,413; Feb. 23; Sp. p. 4910; Gaz. vol. 139; p. 881.
- Vending apparatus. E. W. Lindgren. No. 913,663; Feb. 23; Sp. p. 5473; Gaz. vol. 139; p. 964.
- Vending apparatus. H. G. Hower, W. D. Mull, and A. C. Cooper. No. 916,557; Mar. 30; Sp. p. 5912; Gaz. vol. 140; p. 1060.
- Vending apparatus. G. D. Stoops. No. 920,498; May 4; Sp. p. 810; Gaz. vol. 142; p. 131.
- Vending apparatus. W. E. Bishop and G. F. Chaple. No. 923,132; June 1; Sp. p. 12; Gaz. vol. 143; p. 4.
- Vending apparatus. H. J. Potter. No. 925,595; June 22; Sp. p. 5227; Gaz. vol. 143; p. 920.
- Vending apparatus, Card-. B. Neumann and P. N. Gammelaard. No. 919,927; Apr. 27; Sp. p. 6351; Gaz. vol. 141; p. 1086.
- Vending apparatus, Coin-controlled. T. R. Chisolm. No. 919,824; Apr. 27; Sp. p. 6160; Gaz. vol. 141; p. 1051.
- Vending apparatus, Coin-controlled. M. J. Forth. No. 942,253; Dec. 7; Sp. p. 480; Gaz. vol. 149; p. 75.
- Vending apparatus, Liquid-. F. Turner. No. 910,747; Jan. 26; Sp. p. 4739; Gaz. vol. 138; p. 860.
- Vending apparatus, Liquid-. F. Turner. No. 910,748; Jan. 26; Sp. p. 4741; Gaz. vol. 138; p. 861.
- Vending apparatus or the like, Feeding device for. O. Oehring. No. 929,161; July 27; Sp. p. 5093; Gaz. vol. 144; p. 905.
- Vending device. C. C. Donnell. No. 915,279; Mar. 16; Sp. p. 3356; Gaz. vol. 140; p. 586.
- Vending device, Coin-actuated. M. Stoltz. No. 910,599; Jan. 26; Sp. p. 4463; Gaz. vol. 138; p. 813.
- Vending device, Liquid-. H. G. Cordley. No. 941,760; Nov. 30; Sp. p. 7292; Gaz. vol. 148; p. 1228.
- Vending-machine. J. Schmidt. No. 909,687; Jan. 12; Sp. p. 2522; Gaz. vol. 138; p. 448.
- Vending-machine. J. Schmidt. No. 909,688; Jan. 12; Sp. p. 2524; Gaz. vol. 138; p. 448.
- Vending-machine. J. Schmidt. No. 909,689; Jan. 12; Sp. p. 2527; Gaz. vol. 138; p. 449.
- Vending-machine. S. M. Stroock. No. 910,156; Jan. 19; Sp. p. 3468; Gaz. vol. 138; p. 634.
- Vending-machine. C. C. Travis. No. 910,246; Jan. 19; Sp. p. 3689; Gaz. vol. 138; p. 669.
- Vending-machine. C. A. Dies. No. 910,513; Jan. 26; Sp. p. 4269; Gaz. vol. 138; p. 784.
- Vending-machine. H. A. Thexton. No. 911,091; Feb. 2; Sp. p. 135; Gaz. vol. 139; p. 25.
- Vending-machine. J. E. Packard. No. 912,606; Feb. 16; Sp. p. 3271; Gaz. vol. 139; p. 587.
- Vending-machine. N. N. Neher. No. 913,151; Feb. 23; Sp. p. 4386; Gaz. vol. 139; p. 792.
- Vending-machine. E. L. Smith. No. 914,320; Mar. 2; Sp. p. 1419; Gaz. vol. 140; p. 219.
- Vending-machine. H. A. Thexton. No. 914,993; Mar. 9; Sp. p. 2754; Gaz. vol. 140; p. 464.
- Vending-machine. J. V. Martin. No. 916,345; Mar. 23; Sp. p. 5436; Gaz. vol. 140; p. 965.
- Vending-machine. H. V. Westervelt. No. 916,514; Mar. 30; Sp. p. 5835; Gaz. vol. 140; p. 1047.
- Vending-machine. W. C. Briggs. No. 917,997; Apr. 13; Sp. p. 2115; Gaz. vol. 141; p. 380.
- Vending-machine. W. C. Briggs. No. 918,416; Apr. 13; Sp. p. 2942; Gaz. vol. 141; p. 519.
- Vending-machine. T. Oliver. No. 918,584; Apr. 20; Sp. p. 3309; Gaz. vol. 141; p. 602.
- Vending-machine. H. S. Mills. No. 918,882; Apr. 20; Sp. p. 4004; Gaz. vol. 141; p. 703.
- Vending-machine. E. X. Somers. No. 919,390; Apr. 27; Sp. p. 5213; Gaz. vol. 141; p. 904.
- Vending-machine. H. H. Daniels. No. 919,543; Apr. 27; Sp. p. 5563; Gaz. vol. 141; p. 956.
- Vending-machine. A. Merckens. No. 919,912; Apr. 27; Sp. p. 6327; Gaz. vol. 141; p. 1081.
- Vending-machine. W. Asbury. No. 921,338; May 11; Sp. p. 2564; Gaz. vol. 142; p. 443.
- Vending-machine. A. E. Dieterich. No. 921,597; May 11; Sp. p. 3065; Gaz. vol. 142; p. 527.
- Vending-machine. F. Jendrzejewski. No. 921,841; May 18; Sp. p. 3617; Gaz. vol. 142; p. 638.
- Vending-machine. H. Hein. No. 924,928; June 15; Sp. p. 3929; Gaz. vol. 143; p. 671.
- Vending-machine. E. B. Shanks. No. 925,662; June 22; Sp. p. 5368; Gaz. vol. 143; p. 940.
- Vending-machine. A. S. Killinger. No. 929,448; July 27; Sp. p. 5685; Gaz. vol. 144; p. 909.
- Vending-machine. B. M. Davis. No. 929,568; July 27; Sp. p. 5905; Gaz. vol. 144; p. 1038.
- Vending-machine. J. Vierling. No. 929,733; Aug. 3; Sp. p. 200; Gaz. vol. 145; p. 35.
- Vending-machine. E. Terrell. No. 934,634; Sept. 21; Sp. p. 3354; Gaz. vol. 146; p. 584.
- Vending-machine. F. A. Slichter. No. 936,051; Oct. 5; Sp. p. 959; Gaz. vol. 147; p. 143.
- Vending-machine. G. H. Johnston. No. 936,726; Oct. 12; Sp. p. 2367; Gaz. vol. 147; p. 393.
- Vending-machine. G. F. Johnson. No. 938,767; Nov. 2; Sp. p. 678; Gaz. vol. 148; p. 108.
- Vending-machine. W. H. Laraway. No. 941,079; Nov. 23; Sp. p. 5811; Gaz. vol. 148; p. 980.
- Vending-machine. F. M. Weber. No. 942,117; Dec. 7; Sp. p. 191; Gaz. vol. 149; p. 29.
- Vending-machine. W. H. Fulton. No. 943,675; Dec. 21; Sp. p. 3555; Gaz. vol. 149; p. 619.
- Vending-machine, Card-. F. W. Kalsow. No. 928,979; July 27; Sp. p. 4706; Gaz. vol. 144; p. 844.
- Vending-machine casing. C. R. Pope. No. 910,148; Jan. 19; Sp. p. 3452; Gaz. vol. 138; p. 632.
- Vending-machine casing. B. M. Davis. No. 930,331; Aug. 3; Sp. p. 1427; Gaz. vol. 145; p. 237.
- Vending-machine, Cigar-. F. C. Kainer. No. 927,656; July 13; Sp. p. 1984; Gaz. vol. 144; p. 346.
- Vending-machine, Cigar-. L. A. Vandiver. No. 942,527; Dec. 7; Sp. p. 1047; Gaz. vol. 149; p. 169.
- Vending-machine coin-chute. J. H. Dean and H. L. Zipp. No. 931,847; Aug. 24; Sp. p. 4702; Gaz. vol. 145; p. 814.
- Vending-machine coin-chute mechanism. M. B. Mills. No. 944,983; Dec. 28; Sp. p. 6351; Gaz. vol. 149; p. 1090.
- Vending-machine, Coin-controlled. E. F. Schneider and R. J. A. Pasternack. No. 908,807; Jan. 5; Sp. p. 733; Gaz. vol. 138; p. 123.
- Vending-machine, Coin-controlled. M. Stoltz. No. 910,738; Jan. 26; Sp. p. 4714; Gaz. vol. 138; p. 857.
- Vending-machine, Coin-controlled. E. H. Cook. No. 910,907; Jan. 26; Sp. p. 5054; Gaz. vol. 138; p. 910.
- Vending-machine, Coin-controlled. G. W. Finney. No. 912,455; Feb. 16; Sp. p. 2948; Gaz. vol. 139; p. 535.
- Vending-machine, Coin-controlled. J. J. McCarthy. No. 914,444; Mar. 9; Sp. p. 1673; Gaz. vol. 140; p. 286.
- Vending-machine, Coin-controlled. L. J. Disser. No. 917,266; Apr. 6; Sp. p. 633; Gaz. vol. 141; p. 108.
- Vending-machine, Coin-controlled. J. L. Weed. No. 918,107; Apr. 13; Sp. p. 2335; Gaz. vol. 141; p. 418.
- Vending-machine, Coin-controlled. M. B. Mills. No. 918,886; Apr. 20; Sp. p. 4018; Gaz. vol. 141; p. 705.
- Vending-machine, Coin-controlled. J. L. Weed. No. 921,763; May 18; Sp. p. 3439; Gaz. vol. 142; p. 612.
- Vending-machine, Coin-controlled. R. F. Emmerich. No. 923,958; June 8; Sp. p. 1892; Gaz. vol. 143; p. 316.
- Vending-machine, Coin-controlled. E. F. Spaulding. No. 935,824; Oct. 5; Sp. p. 481; Gaz. vol. 147; p. 69.
- Vending-machine, Coin-controlled. H. A. Ladue. No. 937,820; Oct. 26; Sp. p. 4626; Gaz. vol. 147; p. 802.
- Vending-machine, Coin-controlled. E. F. Spaulding. No. 939,563; Nov. 9; Sp. p. 2461; Gaz. vol. 148; p. 408.
- Vending-machine, Coin-controlled. A. Jacobs. No. 943,552; Dec. 14; Sp. p. 3251; Gaz. vol. 149; p. 548.
- Vending-machine coin-controlled delivery mechanism. C. M. Linde and F. C. Franke. No. 909,100; Jan. 5; Sp. p. 1371; Gaz. vol. 138; p. 220.
- Vending-machine coin-controlled mechanism. M. O. Anthony. No. 917,986; Apr. 13; Sp. p. 2077; Gaz. vol. 141; p. 376.
- Vending-machine coin-controlled mechanism. J. Fritsche. No. 938,419; Oct. 26; Sp. p. 5931; Gaz. vol. 147; p. 1006.



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 Vending-machine coin-controlling mechanism. N. D. Nelson. No. 919,749; Apr. 27; Sp. p. 5968; Gaz. vol. 141; p. 1026.  
 Vending-machine, Coin-operated. H. Fein. No. 921,655; May 11; Sp. p. 3217; Gaz. vol. 142; p. 550.  
 Vending-machine, Coin-operated. C. M. Linde. No. 924,252; June 8; Sp. p. 2533; Gaz. vol. 143; p. 412.  
 Vending-machine, Coin-operated. W. E. Porter. No. 935,812; Oct. 5; Sp. p. 461; Gaz. vol. 147; p. 65.  
 Vending-machine coin-operated mechanism. A. E. Griffith. No. 932,698; Aug. 31; Sp. p. 6506; Gaz. vol. 145; p. 1120.  
 Vending-machine coin-switch. O. Oehring. No. 943,562; Dec. 14; Sp. p. 3272; Gaz. vol. 149; p. 551.  
 Vending-machine coin-switch. O. Oehring. No. 943,636; Dec. 14; Sp. p. 3475; Gaz. vol. 149; p. 578.  
 Vending-machine container. J. Fritsche. No. 934,907; Sept. 21; Sp. p. 3876; Gaz. vol. 146; p. 673.  
 Vending-machine discharge mechanism, Peanut-. B. M. Davis. No. 911,945; Feb. 9; Sp. p. 1797; Gaz. vol. 139; p. 331.  
 Vending-machine ejecting device. J. E. Allison. No. 924,526; June 8; Sp. p. 3072; Gaz. vol. 143; p. 502.  
 Vending machine, Food-. I. O. Carlson. No. 941,495; Nov. 30; Sp. p. 6727; Gaz. vol. 148; p. 1140.  
 Vending machine, Liquid-. A. H. Sage and F. E. Mitchell. No. 936,365; Oct. 12; Sp. p. 1591; Gaz. vol. 144; p. 271.  
 Vending-machine lock. S. E. Wilmore. No. 944,398; Dec. 28; Sp. p. 5070; Gaz. vol. 149; p. 892.  
 Vending-machine, Paper-. W. A. Kraemer and G. F. Howell, Jr. No. 927,055; July 6; Sp. p. 748; Gaz. vol. 144; p. 118.  
 Vending machine, Pencil-. A. Wagniere. No. 931,903; Aug. 24; Sp. p. 4827; Gaz. vol. 145; p. 831.  
 Vending machine, Picture-. T. R. McQuillan. No. 937,949; Oct. 26; Sp. p. 4897; Gaz. vol. 147; p. 846.  
 Vending machine, Stamp-. G. C. Barone. No. 916,828; Mar. 30; Sp. p. 6395; Gaz. vol. 140; p. 1144.  
 Vending machine, Stamp-. J. Fritsche. No. 929,932; Aug. 3; Sp. p. 658; Gaz. vol. 145; p. 105.  
 Vending machine, Stamp-. Z. G. Sholes. No. 935,062; Sept. 28; Sp. p. 4199; Gaz. vol. 146; p. 752.  
 Vending machine, Stamp-. J. R. Armstrong. No. 942,766; Dec. 7; Sp. p. 1517; Gaz. vol. 149; p. 249.  
 Vending machine, Stamp-. C. W. Timmons. No. 943,285; Dec. 14; Sp. p. 2700; Gaz. vol. 149; p. 456.  
 Vending machine, Stamp or ticket. E. D. Schmitt. No. 938,900; Nov. 2; Sp. p. 990; Gaz. vol. 148; p. 156.  
 Vending-machines, Case for coin-controlled. E. H. Cook. No. 910,906; Jan. 26; Sp. p. 5051; Gaz. vol. 138; p. 910.  
 Vending-machines, Coin-selecting mechanism for. E. D. Schmitt. No. 940,074; Nov. 16; Sp. p. 3614; Gaz. vol. 148; p. 616.  
 Vending-machines, &c., Fastening means for coin-actuated. M. Stoltz. No. 910,600; Jan. 26; Sp. p. 4465; Gaz. vol. 138; p. 814.  
 Vending-machines, Pocket-strip for use in. S. L. W. Coe and H. Werden. No. 943,552; Dec. 21; Sp. p. 3518; Gaz. vol. 149; p. 612.  
 Vending-machines, Spurious-coin detector for. L. A. Vandiver. No. 920,697; May 4; Sp. p. 1226; Gaz. vol. 142; p. 198.  
 Vending postage-stamps, &c., Machine for. A. Parker. No. 913,843; Mar. 2; Sp. p. 343; Gaz. vol. 140; p. 59.  
 Veneer-box. O. C. Fenlon. No. 935,748; Oct. 5; Sp. p. 264; Gaz. vol. 147; p. 42.  
 Veneer-cutting machine. N. E. Brown. No. 918,651; Apr. 20; Sp. p. 3499; Gaz. vol. 141; p. 625.  
 Veneer-drier. A. S. Nichols. No. 918,581; Apr. 20; Sp. p. 3305; Gaz. vol. 141; p. 601.  
 Veneer-machine. J. Rendleman. No. 916,016; Mar. 23; Sp. p. 4843; Gaz. vol. 140; p. 857.  
 Veneer-press. W. R. Snyder. No. 924,591; June 8; Sp. p. 3206; Gaz. vol. 143; p. 524.  
 Veneer-scoring mechanism. W. W. Wood. No. 915,147; Mar. 16; Sp. p. 3099; Gaz. vol. 140; p. 544.  
 Veneer-taping machine. M. Nystrom and L. Taxon. No. 942,277; Dec. 7; Sp. p. 532; Gaz. vol. 149; p. 83.  
 Veneers, Gluing. A. A. Dennis. (Reissue.) No. 13,034; Nov. 2; Sp. p. 1605; Gaz. vol. 148; p. 261.  
 Veneering-machine. T. Richardson. No. 938,896; Nov. 2; Sp. p. 976; Gaz. vol. 148; p. 154.  
 Veneering-drying apparatus. G. M. Walker. No. 922,983; May 25; Sp. p. 5947; Gaz. vol. 142; p. 1037.  
 Veneering-press. K. F. Hummel. No. 921,253; May 11; Sp. p. 2366; Gaz. vol. 142; p. 415.  
 Veneering-press. A. J. Kaufman and F. M. Yohe. No. 927,975; July 13; Sp. p. 2654; Gaz. vol. 144; p. 451.  
 Vent-cap. J. R. Williams. No. 941,668; Nov. 30; Sp. p. 7081; Gaz. vol. 148; p. 1196.  
 Vent mechanism. M. L. Parker. No. 935,808; Oct. 5; Sp. p. 451; Gaz. vol. 147; p. 63.  
 Vent, Safety-. M. H. Page. No. 937,713; Oct. 19; Sp. p. 4404; Gaz. vol. 147; p. 748.  
 Vent, Sanitary. W. S. Tuttle. No. 937,893; Oct. 26; Sp. p. 4783; Gaz. vol. 147; p. 827.  
 Ventilated cushion. J. H. Rust. No. 934,465; Sept. 21; Sp. p. 3019; Gaz. vol. 146; p. 526.  
 Ventilating apparatus. J. H. Edward. No. 921,966; May 18; Sp. p. 3866; Gaz. vol. 142; p. 677.  
 Ventilating device. L. S. Graebing. No. 924,658; June 15; Sp. p. 3364; Gaz. vol. 143; p. 580.  
 Ventilating-louver. A. W. Stewart. No. 911,457; Feb. 2; Sp. p. 827; Gaz. vol. 139; p. 145.  
 Ventilating plant. F. A. Holleman. No. 925,186; June 15; Sp. p. 4453; Gaz. vol. 143; p. 759.  
 Ventilating-plate for laminated structures. P. A. Lange. No. 933,766; Sept. 14; Sp. p. 1647; Gaz. vol. 146; p. 272.  
 Ventilating system. A. E. Hart. No. 925,099; June 15; Sp. p. 4280; Gaz. vol. 143; p. 729.  
 Ventilating system. A. West. No. 929,738; Aug. 3; Sp. p. 215; Gaz. vol. 145; p. 37.  
 Ventilation system. M. G. Hubbard. No. 929,767; Aug. 3; Sp. p. 286; Gaz. vol. 145; p. 49.  
 Ventilator: See Adjustable ventilator; Cab-ventilator; Car-ventilator; Car-window ventilator; Chimney-ventilator; Draft-ventilator; Dynamo-ventilator; Greenhouse-ventilator; Hat-ventilator; Mine-ventilator; Roof-ventilator; Sash-ventilator; Ship-ventilator; Shoe-ventilator; Skylight-ventilator; Urinal-ventilator; Vehicle-ventilator; Window-ventilator.  
 Ventilator. D. J. Kelly. No. 908,576; Jan. 5; Sp. p. 298; Gaz. vol. 138; p. 50.  
 Ventilator. J. W. Ellis. No. 909,381; Jan. 12; Sp. p. 1924; Gaz. vol. 138; p. 343.  
 Ventilator. R. F. Hunter. No. 909,601; Jan. 12; Sp. p. 2355; Gaz. vol. 138; p. 418.  
 Ventilator. F. Emmenegger. No. 909,772; Jan. 12; Sp. p. 2693; Gaz. vol. 138; p. 476.  
 Ventilator. T. Lee. No. 910,398; Jan. 19; Sp. p. 4016; Gaz. vol. 138; p. 721.  
 Ventilator. L. D. Pratt. No. 910,721; Jan. 26; Sp. p. 4682; Gaz. vol. 138; p. 851.  
 Ventilator. C. C. Knauss. No. 911,541; Feb. 2; Sp. p. 984; Gaz. vol. 139; p. 171.  
 Ventilator. J. P. Ekstrom. No. 911,648; Feb. 9; Sp. p. 1249; Gaz. vol. 139; p. 235.  
 Ventilator. A. B. Stutz and C. M. Igel. No. 913,244; Feb. 23; Sp. p. 4591; Gaz. vol. 139; p. 823.  
 Ventilator. M. Ashcroft. No. 913,449; Feb. 23; Sp. p. 5000; Gaz. vol. 139; p. 894.  
 Ventilator. F. H. Flowers and F. R. Leet. No. 915,838; Mar. 23; Sp. p. 4504; Gaz. vol. 140; p. 799.  
 Ventilator. J. A. Pihl. No. 916,484; Mar. 30; Sp. p. 5744; Gaz. vol. 140; p. 1037.  
 Ventilator. A. V. Linden. No. 919,193; Apr. 20; Sp. p. 4605; Gaz. vol. 141; p. 804.  
 Ventilator. R. S. Cuddihy. No. 919,284; Apr. 20; Sp. p. 4973; Gaz. vol. 141; p. 833.  
 Ventilator. W. G. Gagné. No. 920,858; May 4; Sp. p. 1550; Gaz. vol. 142; p. 250.  
 Ventilator. G. G. Lochler. No. 924,479; June 8; Sp. p. 2970; Gaz. vol. 143; p. 487.  
 Ventilator. A. D. Ward. No. 925,144; June 15; Sp. p. 4363; Gaz. vol. 143; p. 744.  
 Ventilator. W. F. Warden. No. 925,252; June 15; Sp. p. 4564; Gaz. vol. 143; p. 780.  
 Ventilator. J. Jacobs. No. 927,147; July 6; Sp. p. 932; Gaz. vol. 144; p. 159.  
 Ventilator. M. G. Hubbard. No. 929,766; Aug. 3; Sp. p. 283; Gaz. vol. 145; p. 49.  
 Ventilator. F. G. Andrews. No. 931,667; Aug. 17; Sp. p. 4286; Gaz. vol. 145; p. 732.  
 Ventilator. E. C. Noe. No. 932,490; Aug. 31; Sp. p. 6057; Gaz. vol. 145; p. 1050.  
 Ventilator. H. S. Welker. No. 932,659; Aug. 31; Sp. p. 6420; Gaz. vol. 145; p. 1108.  
 Ventilator. L. Silberman. No. 933,271; Sept. 7; Sp. p. 556; Gaz. vol. 146; p. 85.  
 Ventilator. S. L. Morse. No. 933,383; Sept. 7; Sp. p. 800; Gaz. vol. 146; p. 123.  
 Ventilator. C. A. Peterson. No. 934,460; Sept. 21; Sp. p. 3013; Gaz. vol. 146; p. 525.  
 Ventilator. A. W. Obermann. No. 935,681; Oct. 5; Sp. p. 125; Gaz. vol. 147; p. 20.  
 Ventilator. W. A. Scott, Jr. No. 935,864; Oct. 5; Sp. p. 569; Gaz. vol. 147; p. 82.  
 Ventilator. J. J. Maier. No. 937,254; Oct. 19; Sp. p. 3458; Gaz. vol. 147; p. 597.  
 Ventilator. H. F. Maranville. No. 938,067; Oct. 26; Sp. p. 5152; Gaz. vol. 147; p. 885.  
 Ventilator. G. A. Lewis. No. 940,036; Nov. 16; Sp. p. 3484; Gaz. vol. 148; p. 602.  
 Ventilator. J. M. Rose. No. 941,171; Nov. 23; Sp. p. 6022; Gaz. vol. 148; p. 1012.  
 Ventilator. A. M. Arnesen. No. 944,250; Dec. 28; Sp. p. 4745; Gaz. vol. 149; p. 839.  
 Ventilator and smoke-consumer, Combined. J. Wood. No. 941,900; Nov. 30; Sp. p. 7593; Gaz. vol. 148; p. 1278.  
 Ventilator-clip. W. F. Warden. No. 925,251; June 15; Sp. p. 4563; Gaz. vol. 143; p. 780.  
 Ventilators, transoms, and the like, Mechanism for operating. J. F. Beatty. No. 930,589; Aug. 10; Sp. p. 1992; Gaz. vol. 145; p. 349.  
 Vermin, Apparatus for the disinfection and the extermination of. G. Gauthier. No. 908,853; Jan. 5; Sp. p. 873; Gaz. vol. 138; p. 138.  
 Vermin-destroying apparatus. L. Kreft. No. 943,256; Dec. 14; Sp. p. 2633; Gaz. vol. 149; p. 446.  
 Vertical boiler. H. O. Keferstein. No. 925,107; June 15; Sp. p. 4294; Gaz. vol. 143; p. 732.  
 Vessel. J. Battersby. No. 914,693; Mar. 9; Sp. p. 2194; Gaz. vol. 140; p. 368.  
 Vessel, Apparatus for recording deviations in the course of a. J. Fraser and C. Jumeaux. No. 939,999; Nov. 16; Sp. p. 3417; Gaz. vol. 148; p. 589.  
 Vessel, Cargo. J. R. F. Dettmer. No. 911,581; Feb. 9; Sp. p. 1090; Gaz. vol. 139; p. 213.  
 Vessel-closure. R. M. Whitson. No. 911,099; Feb. 2; Sp. p. 147; Gaz. vol. 139; p. 28.  
 Vessel-closure. C. Hubert. (Reissue.) No. 12,974; June 15; Sp. p. 4922; Gaz. vol. 143; p. 840.

*Alphabetical list of inventions—Continued.*

- Vessel, Compound. E. Drouilly. No. 928,033; July 13; Sp. p. 2764; Gaz. vol. 144; p. 472.
- Vessel, Double-walled. M. Neuner. No. 909,203; Jan. 12; Sp. p. 1594; Gaz. vol. 138; p. 286.
- Vessel, Double-walled. C. S. Reed. No. 909,221; Jan. 12; Sp. p. 1624; Gaz. vol. 138; p. 292.
- Vessel, Double-walled. A. Aschenbrenner. No. 912,986; Feb. 23; Sp. p. 4065; Gaz. vol. 139; p. 737.
- Vessel, Double-walled. M. Anacker. No. 919,517; Apr. 27; Sp. p. 5514; Gaz. vol. 141; p. 947.
- Vessel, Double-walled. E. Fleischhauer. No. 921,099; May 11; Sp. p. 2059; Gaz. vol. 142; p. 362.
- Vessel, Double-walled. G. P. Altenberg. No. 923,236; June 1; Sp. p. 239; Gaz. vol. 143; p. 39.
- Vessel, Double-walled. H. Henn. No. 923,791; June 1; Sp. p. 1551; Gaz. vol. 143; p. 231.
- Vessel, Double-walled. G. R. Paalen. No. 928,002; July 13; Sp. p. 2697; Gaz. vol. 144; p. 460.
- Vessel, Double-walled. G. R. Paalen. No. 930,219; Aug. 3; Sp. p. 1227; Gaz. vol. 145; p. 202.
- Vessel, Fluid-propelled. C. J. Lake. No. 913,515; Feb. 23; Sp. p. 5118; Gaz. vol. 139; p. 914.
- Vessel for raising and carrying submerged objects, Hoisting. L. Parodi. No. 916,006; Mar. 23; Sp. p. 4824; Gaz. vol. 140; p. 853.
- Vessel, Heating. E. M. Leeper. No. 917,954; Apr. 13; Sp. p. 1998; Gaz. vol. 141; p. 364.
- Vessel-hull construction. E. S. Hough. No. 922,903; May 25; Sp. p. 5798; Gaz. vol. 142; p. 1011.
- Vessel-hulls, Construction of. C. Weyher. No. 932,733; Aug. 31; Sp. p. 6576; Gaz. vol. 145; p. 1133.
- Vessel, Hydroplane. G. R. Clifford. No. 912,814; Feb. 16; Sp. p. 3741; Gaz. vol. 139; p. 658.
- Vessel indicator, Invertible. J. Lightfoot. No. 910,698; Jan. 26; Sp. p. 4641; Gaz. vol. 138; p. 844.
- Vessel-lid holder. R. M. Dixon. No. 928,855; July 20; Sp. p. 4443; Gaz. vol. 144; p. 775.
- Vessel, Marine. H. Oventrop. No. 917,351; Apr. 6; Sp. p. 806; Gaz. vol. 141; p. 138.
- Vessel, Metallic. C. L. Coffin. No. 920,432; May 4; Sp. p. 698; Gaz. vol. 142; p. 110.
- Vessel, Navigable. W. Petersen. No. 913,973; Mar. 2; Sp. p. 681; Gaz. vol. 140; p. 106.
- Vessel, Non-refillable. C. C. Blossom. No. 935,957; Oct. 5; Sp. p. 761; Gaz. vol. 147; p. 113.
- Vessel, Packing or storage. C. Marthinson. No. 935,918; Oct. 5; Sp. p. 684; Gaz. vol. 147; p. 100.
- Vessel, Paddle-wheel. D. Fletcher. No. 935,198; Sept. 28; Sp. p. 4475; Gaz. vol. 146; p. 796.
- Vessel propelling apparatus. J. Eltniff. No. 917,935; Apr. 13; Sp. p. 1965; Gaz. vol. 141; p. 357.
- Vessel self-leveling mechanism, Maritime. F. G. Cory. No. 910,506; Jan. 26; Sp. p. 4258; Gaz. vol. 138; p. 782.
- Vessel, Sheet-metal. J. Hölland and K. J. Halleland. No. 917,741; Apr. 6; Sp. p. 1515; Gaz. vol. 141; p. 265.
- Vessel, Submarine. S. Lake. No. 926,065; June 22; Sp. p. 6225; Gaz. vol. 143; p. 1074.
- Vessels, Apparatus for cleaning the hulls of. E. Otidys. No. 919,939; Apr. 27; Sp. p. 6370; Gaz. vol. 141; p. 1089.
- Vessels, Apparatus for elevating submerged. G. Pino. No. 928,536; July 20; Sp. p. 3817; Gaz. vol. 144; p. 669.
- Vessels charged with volatile liquids or liquids under pressure, Closure for. S. Paulard and N. Grillet. No. 924,496; June 8; Sp. p. 3017; Gaz. vol. 143; p. 492.
- Vessels, Controlling device for filling. G. Schollmeyer. No. 942,755; Dec. 7; Sp. p. 1489; Gaz. vol. 149; p. 244.
- Vessels, Determining positions of. R. A. Fessenden. No. 941,565; Nov. 30; Sp. p. 6863; Gaz. vol. 148; p. 1163.
- Vessels for facilitating the location and raising of vessels when sunk, Attachment for. R. W. Ramsden. No. 944,277; Dec. 28; Sp. p. 4812; Gaz. vol. 149; p. 849.
- Vessels, Hatch-fastener for. M. Mulholland. No. 929,779; Aug. 3; Sp. p. 315; Gaz. vol. 145; p. 53.
- Vessels, Making double-walled vacuum. R. Burger. No. 923,136; June 1; Sp. p. 22; Gaz. vol. 140; p. 5.
- Vessels, Navigating-turret for submerged. S. Lake. No. 925,706; June 22; Sp. p. 5457; Gaz. vol. 143; p. 954.
- Vessels, Pneumatic propulsion of. E. Wilde. No. 915,004; Mar. 9; Sp. p. 2772; Gaz. vol. 140; p. 468.
- Vessels, Quicksilver-closure for fermentation. W. Lazarus. No. 912,881; Feb. 16; Sp. p. 3226; Gaz. vol. 139; p. 578.
- Vessels, Shelter for use in connection with submarine. M. A. Laubeuf. No. 921,125; May 11; Sp. p. 2104; Gaz. vol. 142; p. 371.
- Vessels, Towing arrangement for canal and river. E. O. Nikel. No. 942,510; Dec. 7; Sp. p. 1014; Gaz. vol. 149; p. 163.
- Vessels, vehicles, or other moving bodies or objects, Locomotion for. C. J. Lake. No. 915,972; Mar. 23; Sp. p. 4760; Gaz. vol. 140; p. 842.
- Vest, Protective. G. H. Blaker and J. H. Towers. No. 921,352; May 11; Sp. p. 2596; Gaz. vol. 142; p. 447.
- Vest-shirt, Negligée. E. Jaffé. No. 914,955; Mar. 9; Sp. p. 2700; Gaz. vol. 140; p. 454.
- Vests, trousers, &c., Means for adjusting. F. M. Schmidt. No. 941,277; Nov. 23; Sp. p. 6257; Gaz. vol. 148; p. 1047.
- Veterinary dental implement. J. P. Kiefer. No. 927,249; July 6; Sp. p. 1134; Gaz. vol. 144; p. 184.
- Veterinary dental instrument. G. J. Reed and A. Meierhofer. No. 925,379; June 15; Sp. p. 4790; Gaz. vol. 143; p. 819.
- Veterinary instrument. E. G. Lawton. No. 941,325; Nov. 23; Sp. p. 6341; Gaz. vol. 148; p. 1061.
- Veterinary obstetrical instrument. C. Gabel. No. 935,362; Sept. 28; Sp. p. 4808; Gaz. vol. 146; p. 850.
- Veterinary operating-table. W. Crossley. No. 935,965; Oct. 5; Sp. p. 773; Gaz. vol. 147; p. 115.
- Vibrating screen or separator. W. J. Bell, T. L. and T. J. Sturtevant. No. 923,108; May 25; Sp. p. 6211; Gaz. vol. 142; p. 1077.
- Vibrating, tension, and operating table. J. Lend. No. 937,825; Oct. 26; Sp. p. 4637; Gaz. vol. 147; p. 803.
- Vibration-absorbing foot. W. H. Sherwood. No. 943,709; Dec. 21; Sp. p. 3623; Gaz. vol. 149; p. 631.
- Vibration-neutralizer. E. J. Jolivet. No. 919,876; Apr. 27; Sp. p. 6264; Gaz. vol. 141; p. 1068.
- Vibrator. H. M. Sciple. No. 919,649; Apr. 27; Sp. p. 5773; Gaz. vol. 141; p. 993.
- Vibrator. W. F. Acton. No. 923,234; June 1; Sp. p. 235; Gaz. vol. 143; p. 39.
- Vibrator. M. K. Golden. No. 923,508; June 1; Sp. p. 883; Gaz. vol. 143; p. 134.
- Vibrator. A. J. Stecker. No. 942,596; Dec. 7; Sp. p. 1178; Gaz. vol. 149; p. 191.
- Vibrator. A. J. Stecker. No. 943,620; Dec. 14; Sp. p. 3425; Gaz. vol. 149; p. 571.
- Vibrator and timer, Combined. W. S. Newcomet. No. 923,566; June 1; Sp. p. 1013; Gaz. vol. 143; p. 155.
- Vibrator, Electrical. M. K. Golden. No. 928,043; July 13; Sp. p. 2791; Gaz. vol. 144; p. 475.
- Vibratory apparatus for therapeutic use. J. C. Johansen. No. 910,821; Jan. 26; Sp. p. 4900; Gaz. vol. 138; p. 884.
- Victuals, Apparatus for transporting cold and hot. J. Straub and H. Steinhilber. No. 909,252; Jan. 12; Sp. p. 1676; Gaz. vol. 138; p. 302.
- Vine-cutter. L. R. Dean. No. 930,846; Aug. 10; Sp. p. 2505; Gaz. vol. 145; p. 434.
- Vinegar, Making. W. Antoni. No. 928,578; July 20; Sp. p. 3908; Gaz. vol. 144; p. 683.
- Violin. J. M. Gray. No. 934,068; Sept. 14; Sp. p. 2241; Gaz. vol. 146; p. 369.
- Violin. H. Moertel. No. 934,413; Sept. 14; Sp. p. 2907; Gaz. vol. 146; p. 486.
- Violin. J. E. L. Winecoff. No. 936,505; Oct. 12; Sp. p. 1920; Gaz. vol. 147; p. 317.
- Violin. F. O. Fish. No. 939,486; Nov. 9; Sp. p. 2310; Gaz. vol. 148; p. 383.
- Violin and like stringed musical instrument. M. B. Hern. No. 919,722; Apr. 27; Sp. p. 5927; Gaz. vol. 141; p. 1017.
- Violin-bow screw. W. R. Gratz. No. 937,518; Oct. 19; Sp. p. 4029; Gaz. vol. 147; p. 685.
- Violin chin and shoulder rest, Combined. G. L. Becker. No. 908,541; Jan. 5; Sp. p. 231; Gaz. vol. 138; p. 39.
- Violin chin-rest. H. Ziegler. No. 925,068; June 15; Sp. p. 4216; Gaz. vol. 143; p. 718.
- Violin chin-rest. G. Beisheim. No. 931,251; Aug. 17; Sp. p. 3441; Gaz. vol. 145; p. 597.
- Violin chin-rests, Shoulder-pad attachment for. C. Schaumburg. No. 940,405; Nov. 16; Sp. p. 4375; Gaz. vol. 148; p. 732.
- Violin, Double-keyed. A. v. Wascinski. No. 926,370; June 29; Sp. p. 6870; Gaz. vol. 143; p. 1208.
- Violin-key. H. Harner. No. 941,196; Nov. 23; Sp. p. 6080; Gaz. vol. 148; p. 1020.
- Violin-mute. S. Ulbrich. No. 911,853; Feb. 9; Sp. p. 1617; Gaz. vol. 139; p. 300.
- Violin-mute. W. C. Yutzky. No. 917,512; Apr. 6; Sp. p. 1086; Gaz. vol. 141; p. 190.
- Violin-piano. J. L. Warner. No. 924,706; June 15; Sp. p. 3466; Gaz. vol. 143; p. 595.
- Violin shoulder-rest. G. Beisheim. No. 932,844; Aug. 31; Sp. p. 6803; Gaz. vol. 145; p. 1167.
- Violin-support. F. R. Johns. No. 925,481; June 22; Sp. p. 4998; Gaz. vol. 143; p. 882.
- Violin-tailpiece. N. C. Hale. No. 936,624; Oct. 12; Sp. p. 2172; Gaz. vol. 147; p. 359.
- Violin tuning-peg. B. C. Calvert and E. Frisbie. No. 909,753; Jan. 12; Sp. p. 2665; Gaz. vol. 138; p. 470.
- Violin-tuning peg. P. Rose. No. 938,079; Oct. 26; Sp. p. 5192; Gaz. vol. 147; p. 889.
- Violoncello-support. J. A. Gould. No. 915,345; Mar. 16; Sp. p. 3481; Gaz. vol. 140; p. 607.
- Vise. W. Keirn. No. 915,184; Mar. 16; Sp. p. 3170; Gaz. vol. 140; p. 556.
- Vise. W. A. Boyle. No. 917,243; Apr. 6; Sp. p. 580; Gaz. vol. 141; p. 100.
- Vise. J. Johnston. No. 917,306; Apr. 6; Sp. p. 719; Gaz. vol. 141; p. 123.
- Vise. R. A. Horning. No. 917,437; Apr. 6; Sp. p. 954; Gaz. vol. 141; p. 166.
- Vise. J. E. Bashore and C. W. Jensen. No. 918,946; Apr. 20; Sp. p. 4148; Gaz. vol. 141; p. 725.
- Vise. C. R. Kelly. No. 923,659; June 1; Sp. p. 1215; Gaz. vol. 143; p. 187.
- Vise. T. C. Massey. No. 927,988; July 13; Sp. p. 2672; Gaz. vol. 144; p. 455.
- Vise, Adjustable. F. A. Pfeifer. No. 930,687; Aug. 10; Sp. p. 2181; Gaz. vol. 145; p. 381.
- Vise and die-carrier, Pipe-. E. B. Werner. No. 920,797; May 4; Sp. p. 1429; Gaz. vol. 142; p. 231.
- Vise and sharpening-gage, Combination tool-. G. T. Cantara. No. 938,969; Nov. 2; Sp. p. 1122; Gaz. vol. 148; p. 180.
- Vise and thread-cutter, Combined. A. T. Pflugh. No. 913,912; Mar. 2; Sp. p. 525; Gaz. vol. 140; p. 84.
- Vise, Bench-. P. F. Wray. No. 923,098; May 25; Sp. p. 6192; Gaz. vol. 142; p. 1073.
- Vise, Blacksmith's. S. D. Ruth. No. 930,889; Aug. 10; Sp. p. 2617; Gaz. vol. 145; p. 448.
- Vise, Drill-. J. C. Scoggins. No. 927,381; July 6; Sp. p. 1356; Gaz. vol. 144; p. 225.



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- Vise, Fluid-actuated. J. Sisteck and J. Spinka. No. 941,543; Nov. 30; Sp. p. 6824; Gaz. vol. 148; p. 1155.  
Vise, Hand-. J. G. Smith. No. 919,971; Apr. 27; Sp. p. 6434; Gaz. vol. 141; p. 1099.  
Vise, Pipe-. H. H. Steele. No. 934,850; Sept. 21; Sp. p. 3773; Gaz. vol. 146; p. 654.  
Vise, Quick-acting woodworking-. W. Y. Mentzer. No. 939,284; Nov. 9; Sp. p. 1816; Gaz. vol. 148; p. 314.  
Vise, Quick-adjustment. R. M. Smith. No. 921,296; May 11; Sp. p. 2458; Gaz. vol. 142; p. 428.  
Vises, Attachment for the jaws of. D. E. Shankland and O. F. Brown. No. 915,490; Mar. 16; Sp. p. 3771; Gaz. vol. 140; p. 656.  
Vitroous ceramic surfaces, Metalization of. Q. Marino. No. 925,365; June 15; Sp. p. 4768; Gaz. vol. 143; p. 814.  
Voice-reflector. A. Carbone. No. 924,888; June 15; Sp. p. 3859; Gaz. vol. 143; p. 658.  
Voltage controller, Multiple-. E. W. Stull. No. 922,823; May 25; Sp. p. 5624; Gaz. vol. 142; p. 985.  
Voltage-regulation system. P. Rose. No. 937,469; Oct. 19; Sp. p. 3925; Gaz. vol. 147; p. 668.  
Voltage-regulator. E. J. Berg. No. 916,982; Apr. 6; Sp. p. 34; Gaz. vol. 141; p. 10.  
Voltage-regulator. F. Darlington. No. 920,925; May 11; Sp. p. 1705; Gaz. vol. 142; p. 303.  
Voltage-regulator. S. D. Sprong and W. E. McCoy. No. 921,299; May 11; Sp. p. 2461; Gaz. vol. 142; p. 428.  
Voltage-regulator. F. Conrad. No. 923,627; June 1; Sp. p. 1150; Gaz. vol. 143; p. 176.  
Voltage-regulator, Automatic. H. L. Van Valkenburg. No. 922,218; May 18; Sp. p. 4377; Gaz. vol. 142; p. 760.  
Voltage-regulator, Automatic. H. L. Van Valkenburg. No. 922,219; May 18; Sp. p. 4384; Gaz. vol. 142; p. 761.  
Voltage-regulators, Movable terminal for. F. Darlington. No. 920,926; May 11; Sp. p. 1707; Gaz. vol. 142; p. 303.  
Voltaic high-current arcs, Production of. H. Pauling. No. 939,442; Nov. 9; Sp. p. 2216; Gaz. vol. 148; p. 368.  
Vote-registering machine, Automatic. E. Boggiano. No. 943,378; Dec. 14; Sp. p. 2893; Gaz. vol. 149; p. 487.  
Voting and similar registering machine. W. J. Lausterer. No. 916,336; Mar. 23; Sp. p. 5416; Gaz. vol. 140; p. 962.  
Voting-booth. E. Hinton. No. 937,806; Oct. 26; Sp. p. 4602; Gaz. vol. 147; p. 797.  
Voting-machine. J. H. McElroy. No. 909,104; Jan. 5; Sp. p. 1378; Gaz. vol. 138; p. 221.  
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Voting-machine. F. Keiper. No. 910,389; Jan. 19; Sp. p. 3998; Gaz. vol. 138; p. 718.  
Voting-machine. J. H. Dean. No. 911,552; Feb. 2; Sp. p. 1005; Gaz. vol. 139; p. 175.  
Voting-machine. C. C. Abbott. No. 914,006; Mar. 2; Sp. p. 739; Gaz. vol. 140; p. 117.  
Voting-machine. W. S. Prosser. No. 914,184; Mar. 2; Sp. p. 1138; Gaz. vol. 140; p. 178.  
Voting-machine. E. B. Willix. No. 920,706; May 4; Sp. p. 1263; Gaz. vol. 142; p. 201.  
Voting-machine. B. F. Eilerman, C. D. Grimes, and T. Major. No. 922,683; May 25; Sp. p. 5319; Gaz. vol. 142; p. 940.  
Voting-machine. C. A. Benke. No. 932,750; Aug. 31; Sp. p. 6601; Gaz. vol. 145; p. 1138.  
Voting-machine. S. R. Shoup. No. 932,915; Aug. 31; Sp. p. 6923; Gaz. vol. 145; p. 1190.  
Voting-machine. W. J. Bohan and D. D. Smith, Jr. No. 934,498; Sept. 21; Sp. p. 3078; Gaz. vol. 146; p. 537.  
Voting-machine. H. B. Swartz. No. 935,869; Oct. 5; Sp. p. 576; Gaz. vol. 147; p. 83.  
Voting-machine. J. H. Dean. No. 938,126; Oct. 26; Sp. p. 5285; Gaz. vol. 147; p. 905.  
Voting-machine. J. H. Dean. No. 938,412; Oct. 26; Sp. p. 5920; Gaz. vol. 147; p. 1003.  
Voting-machine. G. Stacy and G. A. Julius. No. 939,755; Nov. 9; Sp. p. 2884; Gaz. vol. 148; p. 476.  
Voting-machine. G. Stacy and G. A. Julius. No. 939,929; Nov. 9; Sp. p. 3258; Gaz. vol. 148; p. 537.  
Voting-machine. J. H. McElroy. No. 941,800; Nov. 30; Sp. p. 7365; Gaz. vol. 148; p. 1242.  
Voting-machine. J. H. McElroy. No. 941,802; Nov. 30; Sp. p. 7379; Gaz. vol. 148; p. 1242.  
Voting-machine. E. E. Wolf. No. 942,991; Dec. 14; Sp. p. 2060; Gaz. vol. 149; p. 357.  
Voting-machine. A. McKenzie. No. 943,041; Dec. 14; Sp. p. 2185; Gaz. vol. 149; p. 373.  
Voting-machine. J. H. McElroy. No. 944,688; Dec. 28; Sp. p. 5716; Gaz. vol. 149; p. 992.  
Voting-machine. J. H. McElroy. No. 944,743; Dec. 28; Sp. p. 5852; Gaz. vol. 149; p. 1010.  
Voting-machine construction. C. F. Currey. No. 938,643; Nov. 2; Sp. p. 437; Gaz. vol. 148; p. 67.  
Voting-machine counter construction. C. F. Currey. No. 939,674; Nov. 9; Sp. p. 2715; Gaz. vol. 148; p. 448.  
Voting-machine, General-. L. R. Winslow. No. 920,101; Apr. 27; Sp. p. 6725; Gaz. vol. 141; p. 1142.  
Voting-machine grouping mechanism. C. C. Abbott. No. 914,008; Mar. 2; Sp. p. 759; Gaz. vol. 140; p. 118.  
Voting-machine independent-voting mechanism. C. C. Abbott. No. 914,007; Mar. 2; Sp. p. 751; Gaz. vol. 140; p. 118.  
Voting-machine indorsing device. W. J. Lausterer. No. 916,337; Mar. 23; Sp. p. 5419; Gaz. vol. 140; p. 962.  
Voting-machine indorsing device. W. J. Lausterer. No. 933,377; Sept. 7; Sp. p. 789; Gaz. vol. 146; p. 122.  
Voting-machine indorsing device. A. J. Gillespie. No. 933,428; Sept. 7; Sp. p. 877; Gaz. vol. 146; p. 137.  
Voting-machine interlocking mechanism. F. Keiper. No. 933,372; Sept. 7; Sp. p. 767; Gaz. vol. 146; p. 120.  
Voting-machine interlocking mechanism. J. H. McElroy. No. 941,801; Nov. 30; Sp. p. 7373; Gaz. vol. 148; p. 1242.  
Voting-machine key operating and locking bag. W. J. Lausterer. No. 933,378; Sept. 7; Sp. p. 790; Gaz. vol. 146; p. 122.  
Voting-machine lock-out. A. J. Gillespie. No. 933,427; Sept. 7; Sp. p. 876; Gaz. vol. 146; p. 137.  
Voting-machine lock-out. L. T. Harkness. No. 943,017; Dec. 14; Sp. p. 2131; Gaz. vol. 149; p. 365.  
Voting-machine uniform-paper-feed mechanism. C. C. Abbott. No. 914,005; Mar. 2; Sp. p. 737; Gaz. vol. 140; p. 117.  
Voting mechanism, Cumulative-. C. C. Abbott. No. 914,009; Mar. 2; Sp. p. 767; Gaz. vol. 140; p. 119.  
Voting mechanism for voting-machines, Independent-. L. R. Winslow. No. 920,102; Apr. 27; Sp. p. 6741; Gaz. vol. 141; p. 1142.  
Voucher-severing device. A. H. Graves. No. 912,981; Feb. 16; Sp. p. 4042; Gaz. vol. 139; p. 709.  
Vulcanized footwear, Article of. M. C. Clark. No. 926,387; June 29; Sp. p. 6899; Gaz. vol. 143; p. 1214.  
Vulcanizer. J. K. Williams. No. 914,905; Mar. 9; Sp. p. 2617; Gaz. vol. 140; p. 438.  
Vulcanizer. H. D. Bultman. No. 935,295; Sept. 28; Sp. p. 4662; Gaz. vol. 146; p. 828.  
Vulcanizer. F. E. Smith. No. 939,342; Nov. 9; Sp. p. 1971; Gaz. vol. 148; p. 335.  
Vulcanizer-carrier. C. R. Bachmann. No. 926,637; June 29; Sp. p. 7353; Gaz. vol. 143; p. 1297.  
Vulcanizing apparatus. J. R. Gammetter. No. 913,720; Mar. 2; Sp. p. 90; Gaz. vol. 140; p. 16.  
Vulcanizing apparatus. W. H. Welch. No. 923,224; June 1; Sp. p. 214; Gaz. vol. 143; p. 35.  
Vulcanizing apparatus. A. F. Cogswell. No. 923,772; June 1; Sp. p. 1472; Gaz. vol. 143; p. 225.  
Vulcanizing-mold. J. K. Williams. No. 943,055; Dec. 14; Sp. p. 2237; Gaz. vol. 149; p. 379.  
Vulcanizing-mold. P. W. Litchfield. No. 944,339; Dec. 28; Sp. p. 4937; Gaz. vol. 149; p. 870.  
Waffle machine, Cone-. A. G. and M. Andalaft. No. 943,293; Dec. 14; Sp. p. 2716; Gaz. vol. 149; p. 459.  
Waffle-packing case, Cone-. A. G. and M. Andalaft. No. 943,292; Dec. 14; Sp. p. 2715; Gaz. vol. 149; p. 458.  
Wagon. J. W. Smith. No. 935,277; Sept. 28; Sp. p. 4628; Gaz. vol. 146; p. 823.  
Wagon. G. W. Gayle. No. 940,456; Nov. 16; Sp. p. 4479; Gaz. vol. 148; p. 748.  
Wagon, Ammunition-. W. Mayer. No. 932,158; Aug. 24; Sp. p. 5383; Gaz. vol. 145; p. 918.  
Wagon and other receptacle, Railway-. R. G. Sharp and E. D. Rowntree. No. 910,152; Jan. 19; Sp. p. 3458; Gaz. vol. 138; p. 633.  
Wagon and portable furnace, Hygienic. D. Mandel. No. 912,585; Feb. 16; Sp. p. 3233; Gaz. vol. 139; p. 579.  
Wagon, Automatic dump-. P. N. Lindskog. No. 931,936; Aug. 24; Sp. p. 4914; Gaz. vol. 145; p. 844.  
Wagon-bed. C. B. Tillery. No. 939,758; Nov. 9; Sp. p. 2908; Gaz. vol. 148; p. 477.  
Wagon bed, Dumping-. P. E. Ricker. No. 916,020; Mar. 23; Sp. p. 4850; Gaz. vol. 140; p. 858.  
Wagon-bed protector. G. I. Fornwalt. No. 911,301; Feb. 2; Sp. p. 551; Gaz. vol. 139; p. 94.  
Wagon-body. J. T. Smith. No. 912,430; Feb. 16; Sp. p. 2900; Gaz. vol. 139; p. 526.  
Wagon-body. W. Graham and C. S. Baker. No. 912,840; Feb. 16; Sp. p. 3786; Gaz. vol. 139; p. 666.  
Wagon-body. W. A. Melrose and J. M. Overshiner. No. 917,960; Apr. 13; Sp. p. 2012; Gaz. vol. 141; p. 366.  
Wagon-body. M. C. Bauer. No. 931,719; Aug. 24; Sp. p. 4438; Gaz. vol. 145; p. 773.  
Wagon-body. H. Wachter. No. 939,114; Nov. 2; Sp. p. 1409; Gaz. vol. 148; p. 229.  
Wagon-body, Auxiliary. C. Gorby. No. 935,754; Oct. 5; Sp. p. 278; Gaz. vol. 147; p. 45.  
Wagon-body lifter. W. P. Lucas. No. 923,980; June 8; Sp. p. 1943; Gaz. vol. 143; p. 323.  
Wagon bolster and standard. C. M. Shotwell. No. 912,190; Feb. 9; Sp. p. 2364; Gaz. vol. 139; p. 409.  
Wagon bolster, Log-. J. T. Warren. No. 943,495; Dec. 14; Sp. p. 3135; Gaz. vol. 149; p. 528.  
Wagon-box. W. F. Rodebaugh. No. 913,237; Feb. 23; Sp. p. 4577; Gaz. vol. 139; p. 821.  
Wagon-box construction. F. A. Falk. No. 920,299; May 4; Sp. p. 443; Gaz. vol. 142; p. 68.  
Wagon-box corner-iron. J. B. Cross. No. 934,048; Sept. 14; Sp. p. 2190; Gaz. vol. 146; p. 362.  
Wagon-box, Drop. A. T. Cyr. No. 928,503; July 20; Sp. p. 3738; Gaz. vol. 144; p. 658.  
Wagon-box lifting and dumping device. J. F. Myers. No. 934,334; Sept. 14; Sp. p. 2756; Gaz. vol. 146; p. 458.  
Wagon boxes and racks, Means for detachably connecting. H. S. Swan. No. 926,834; July 6; Sp. p. 269; Gaz. vol. 144; p. 43.  
Wagon brace, Dump-. P. H. Soentgen. No. 922,969; May 25; Sp. p. 5925; Gaz. vol. 142; p. 1033.  
Wagon-brake. G. Ennis. No. 910,997; Jan. 26; Sp. p. 5218; Gaz. vol. 138; p. 940.  
Wagon-brake. C. F. Liebly and C. C. Wilson. No. 915,585; Mar. 16; Sp. p. 4203; Gaz. vol. 140; p. 724.  
Wagon-brake. A. J. Olson. No. 916,769; Mar. 30; Sp. p. 6285; Gaz. vol. 140; p. 1124.  
Wagon-brake. J. H. Huehn. No. 917,945; Apr. 13; Sp. p. 1985; Gaz. vol. 141; p. 361.  
Wagon-brake. C. W. O'Donnell. No. 926,590; June 29; Sp. p. 7258; Gaz. vol. 143; p. 1283.

*Alphabetical list of inventions—Continued.*

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Wagon-brake. W. L. Roper. No. 931,491; Aug. 17; Sp. p. 3936; Gaz. vol. 145; p. 679.  
Wagon-brake. W. C. Moors. No. 931,786; Aug. 24; Sp. p. 4587; Gaz. vol. 145; p. 795.  
Wagon-brake. E. A. Johnson. No. 938,241; Oct. 26; Sp. p. 5533; Gaz. vol. 147; p. 945.  
Wagon-brake. J. Auth and H. Kettler. No. 938,810; Nov. 2; Sp. p. 774; Gaz. vol. 148; p. 125.  
Wagon-brake. J. E. Hewitt. No. 940,249; Nov. 16; Sp. p. 3985; Gaz. vol. 148; p. 678.  
Wagon-brake. E. G. Doland. No. 944,080; Dec. 21; Sp. p. 4401; Gaz. vol. 149; p. 758.  
Wagon-brake. E. G. Doland. No. 944,081; Dec. 21; Sp. p. 4403; Gaz. vol. 149; p. 759.  
Wagon-brake, Automatic. J. C. Dunham. No. 913,272; Feb. 23; Sp. p. 4640; Gaz. vol. 139; p. 832.  
Wagon-brake, Automatic. W. E. Woods. No. 913,342; Feb. 23; Sp. p. 4781; Gaz. vol. 139; p. 856.  
Wagon-brake, Automatic. R. T. Duke. No. 917,563; Apr. 6; Sp. p. 1176; Gaz. vol. 141; p. 205.  
Wagon-brake, Automatic. A. C. Harryman. No. 922,423; May 18; Sp. p. 4770; Gaz. vol. 142; p. 827.  
Wagon-brake, Automatic. H. J. Williams. No. 925,617; June 22; Sp. p. 5274; Gaz. vol. 143; p. 927.  
Wagon-brake, Automatic. C. Carver. No. 944,961; Dec. 28; Sp. p. 6297; Gaz. vol. 149; p. 1082.  
Wagon brake or lock. F. G. Wetzel. No. 919,985; Apr. 27; Sp. p. 6458; Gaz. vol. 141; p. 1104.  
Wagon-brake-rod connection. O. Wooten. No. 911,355; Feb. 2; Sp. p. 654; Gaz. vol. 139; p. 111.  
Wagon, Camping-. D. L. Hardin. No. 941,195; Nov. 23; Sp. p. 6078; Gaz. vol. 148; p. 1020.  
Wagon, carriage, &c., thill. W. H. Cooley and H. E. Marks. No. 914,553; Mar. 9; Sp. p. 1895; Gaz. vol. 140; p. 323.  
Wagon-cleat. W. H. Wheeler. No. 937,669; Oct. 19; Sp. p. 4302; Gaz. vol. 147; p. 733.  
Wagon, Composite road-. R. Jonas. No. 918,161; Apr. 13; Sp. p. 2432; Gaz. vol. 141; p. 436.  
Wagon-coupling. S. A. Biggers. No. 919,684; Apr. 27; Sp. p. 5852; Gaz. vol. 141; p. 1005.  
Wagon, Delivery-. J. R. Holland and H. Silver. No. 914,722; Mar. 9; Sp. p. 2251; Gaz. vol. 140; p. 378.  
Wagon, Delivery-. F. W. Miller. No. 935,121; Sept. 28; Sp. p. 4330; Gaz. vol. 146; p. 772.  
Wagon-dog. E. Law. No. 913,740; Mar. 2; Sp. p. 135; Gaz. vol. 140; p. 23.  
Wagon-dump. J. E. Camp. No. 909,281; Jan. 12; Sp. p. 1738; Gaz. vol. 138; p. 312.  
Wagon-dump. E. Ewel and S. L. Clement. No. 940,447; Nov. 16; Sp. p. 4459; Gaz. vol. 148; p. 745.  
Wagon, Dump-. W. H. Hill and H. B. Wright. No. 913,135; Feb. 23; Sp. p. 4357; Gaz. vol. 139; p. 787.  
Wagon, Dump-. W. H. Moore. No. 914,157; Mar. 2; Sp. p. 1064; Gaz. vol. 140; p. 169.  
Wagon, Dump-. O. C. Seelow. No. 919,964; Apr. 27; Sp. p. 6418; Gaz. vol. 141; p. 1096.  
Wagon, Dump-. J. F. Eccard. No. 923,253; June 1; Sp. p. 290; Gaz. vol. 143; p. 46.  
Wagon, Dump-. C. M. Haeske. No. 943,743; Dec. 21; Sp. p. 3692; Gaz. vol. 149; p. 642.  
Wagon dump and elevator. F. Gahm. No. 914,565; Mar. 9; Sp. p. 1918; Gaz. vol. 140; p. 327.  
Wagon, Dumping-. C. Heinley. No. 919,011; Apr. 20; Sp. p. 4266; Gaz. vol. 141; p. 746.  
Wagon, Dumping-. T. Wright. No. 920,512; May 4; Sp. p. 848; Gaz. vol. 142; p. 137.  
Wagon, Dumping-. J. D. Bunn. No. 923,943; June 8; Sp. p. 1858; Gaz. vol. 143; p. 310.  
Wagon, Dumping-. A. Cameron. No. 926,169; June 29; Sp. p. 6459; Gaz. vol. 143; p. 1145.  
Wagon, Dumping-. J. E. Briggs. No. 926,724; July 6; Sp. p. 10; Gaz. vol. 144; p. 4.  
Wagon, Dumping-. W. Rodenhausen. No. 927,813; July 13; Sp. p. 2308; Gaz. vol. 144; p. 398.  
Wagon, Dumping-. G. M. Head. No. 928,753; July 20; Sp. p. 4255; Gaz. vol. 144; p. 741.  
Wagon, Dumping-. A. T. Newell. No. 936,022; Oct. 5; Sp. p. 895; Gaz. vol. 147; p. 135.  
Wagon, Dumping-. W. S. Livengood. No. 936,730; Oct. 12; Sp. p. 2375; Gaz. vol. 147; p. 395.  
Wagon, Dumping-. H. L. Hazen. No. 939,130; Nov. 2; Sp. p. 1446; Gaz. vol. 148; p. 235.  
Wagon, Dumping-. J. Heberling. No. 939,414; Nov. 9; Sp. p. 2159; Gaz. vol. 148; p. 358.  
Wagon, Dumping-. T. Wright. No. 939,782; Nov. 9; Sp. p. 2945; Gaz. vol. 148; p. 485.  
Wagon, Farm-. C. H. Mickelsen. No. 944,891; Dec. 28; Sp. p. 6164; Gaz. vol. 149; p. 1061.  
Wagon, Hand-propelled. N. Thomas. No. 917,910; Apr. 13; Sp. p. 1922; Gaz. vol. 141; p. 348.  
Wagon hoister and dumper. S. M. Smart. No. 913,170; Feb. 23; Sp. p. 4431; Gaz. vol. 139; p. 799.  
Wagon-jack. D. A. Gilchrist. No. 918,141; Apr. 13; Sp. p. 2401; Gaz. vol. 141; p. 430.  
Wagon-jack. G. W. Harris. No. 922,474; May 25; Sp. p. 4895; Gaz. vol. 142; p. 872.  
Wagon-jack. A. A. Coon. No. 928,587; July 20; Sp. p. 3922; Gaz. vol. 144; p. 665.  
Wagon-jack. F. J. Feldt. No. 937,061; Oct. 19; Sp. p. 3034; Gaz. vol. 147; p. 533.  
Wagon-jack. R. C. Tucker. No. 939,113; Nov. 2; Sp. p. 1408; Gaz. vol. 148; p. 229.  
Wagon-loader. A. D. March. No. 925,364; June 15; Sp. p. 4764; Gaz. vol. 143; p. 814.  
Wagon-loading device. J. K. Voorhes and V. V. Speer. No. 911,633; Feb. 9; Sp. p. 1206; Gaz. vol. 139; p. 228.  
Wagon-loading device. R. Pederson. No. 915,881; Mar. 23; Sp. p. 4582; Gaz. vol. 140; p. 813.  
Wagon-loading device. R. Pederson. No. 935,052; Sept. 28; Sp. p. 4181; Gaz. vol. 146; p. 749.  
Wagon-lock. G. A. Parks. No. 915,623; Mar. 16; Sp. p. 4059; Gaz. vol. 140; p. 701.  
Wagon, Log-. W. M. Norris. No. 940,547; Nov. 16; Sp. p. 4678; Gaz. vol. 148; p. 778.  
Wagon, Log and lumber. J. H. Anthony. No. 927,206; July 6; Sp. p. 1050; Gaz. vol. 144; p. 169.  
Wagon rack or box lifting device. G. A. Peters. No. 908,491; Jan. 5; Sp. p. 111; Gaz. vol. 138; p. 21.  
Wagon-rack, Revolving suspension. W. H. Martin. No. 939,147; Nov. 2; Sp. p. 1493; Gaz. vol. 148; p. 242.  
Wagon-rack standard. L. P. Cook. No. 944,539; Dec. 28; Sp. p. 5416; Gaz. vol. 149; p. 941.  
Wagon-reach. H. Braum and G. L. Wackerow. No. 912,800; Feb. 16; Sp. p. 3720; Gaz. vol. 139; p. 654.  
Wagon-reach. S. O. Frantz. No. 913,832; Mar. 2; Sp. p. 453; Gaz. vol. 140; p. 74.  
Wagon-reach coupling. C. Myers. No. 944,143; Dec. 21; Sp. p. 4536; Gaz. vol. 149; p. 778.  
Wagon-reach, Extensible. A. Davis. No. 926,855; July 6; Sp. p. 322; Gaz. vol. 144; p. 51.  
Wagon-runner. F. Kindahl. No. 937,999; Oct. 26; Sp. p. 5004; Gaz. vol. 147; p. 862.  
Wagon running-gear. C. M. Haeske. No. 943,742; Dec. 21; Sp. p. 3691; Gaz. vol. 149; p. 642.  
Wagon running-gear. W. J. Ott. No. 944,813; Dec. 28; Sp. p. 6005; Gaz. vol. 149; p. 1034.  
Wagon, Salvage-. J. O. Glaville. No. 908,660; Jan. 5; Sp. p. 499; Gaz. vol. 138; p. 78.  
Wagon, School-. T. H. Parry and W. J. Byers. No. 937,953; Oct. 26; Sp. p. 4903; Gaz. vol. 147; p. 847.  
Wagon-seat. N. Beatty. No. 911,024; Feb. 2; Sp. p. 4; Gaz. vol. 139; p. 3.  
Wagon-seat. A. A. Vik. No. 922,546; May 25; Sp. p. 5043; Gaz. vol. 142; p. 895.  
Wagon-seat riser. R. N. Collins. No. 936,414; Oct. 12; Sp. p. 1707; Gaz. vol. 147; p. 288.  
Wagon shock-loading attachment. Farm-. F. X. La Londe. No. 938,152; Oct. 26; Sp. p. 5344; Gaz. vol. 147; p. 913.  
Wagon side-board attachment. A. Sanders and C. M. Rebman. No. 941,956; Nov. 30; Sp. p. 7696; Gaz. vol. 148; p. 1297.  
Wagon, sled, and the like, Child's. E. M. Henle. No. 927,238; July 6; Sp. p. 1113; Gaz. vol. 144; p. 180.  
Wagon-stake socket. H. W. Leverenz. No. 929,315; July 27; Sp. p. 5444; Gaz. vol. 144; p. 957.  
Wagon-starting device. W. H. Stewart. No. 908,514; Jan. 5; Sp. p. 163; Gaz. vol. 138; p. 30.  
Wagon storm-front. H. Foster. No. 939,998; Nov. 16; Sp. p. 3416; Gaz. vol. 148; p. 588.  
Wagon-timing device. E. F. Chandler. No. 933,418; Sept. 7; Sp. p. 859; Gaz. vol. 146; p. 134.  
Wagon-tongue attachment. G. Hofmaister. No. 908,672; Jan. 5; Sp. p. 514; Gaz. vol. 138; p. 80.  
Wagon-tongue support. F. Trost. No. 910,745; Jan. 26; Sp. p. 4734; Gaz. vol. 138; p. 860.  
Wagon unloading device. S. C. Leonard. No. 937,616; Oct. 19; Sp. p. 4209; Gaz. vol. 147; p. 717.  
Wagon wheel-brake, Dump-. L. Boucher. No. 927,322; July 6; Sp. p. 1256; Gaz. vol. 144; p. 207.  
Wainscoting. C. B. Allen. No. 927,205; July 6; Sp. p. 1048; Gaz. vol. 144; p. 169.  
Wainscoting, walls, and the like, Composition of matter for the finishing coat on. G. Clapham. No. 941,498; Nov. 30; Sp. p. 6732; Gaz. vol. 148; p. 1141.  
Waist. M. H. Mergenthaler. No. 930,676; Aug. 10; Sp. p. 2161; Gaz. vol. 145; p. 377.  
Waist and skirt supporter. A. M. Preston. No. 941,207; Nov. 23; Sp. p. 6105; Gaz. vol. 148; p. 1024.  
Waistband for garments, Adjustable. M. S. Erlanger. No. 942,628; Dec. 7; Sp. p. 1244; Gaz. vol. 149; p. 203.  
Waiver, Mechanical. C. C. Pitts. No. 932,319; Aug. 24; Sp. p. 5696; Gaz. vol. 145; p. 971.  
Waiver, Portable. G. F. Hill. No. 927,533; July 13; Sp. p. 1706; Gaz. vol. 144; p. 304.  
Wall. D. B. Luten. No. 934,411; Sept. 14; Sp. p. 2905; Gaz. vol. 146; p. 485.  
Wall and ceiling, Fireproof. A. De Marquis and E. Cierat. No. 915,665; Mar. 16; Sp. p. 4162; Gaz. vol. 140; p. 718.  
Wall and constructing same, Composite. J. H. Magdiel. No. 939,726; Nov. 9; Sp. p. 2818; Gaz. vol. 148; p. 466.  
Wall blocks, slabs, &c., Machine for molding portable. H. B. Copeland. No. 935,246; Sept. 28; Sp. p. 4567; Gaz. vol. 146; p. 812.  
Wall-bracket. W. C. Morrill. No. 936,552; Oct. 12; Sp. p. 2014; Gaz. vol. 147; p. 332.  
Wall-bracket, Adjustable. A. W. Browne. No. 918,276; Apr. 13; Sp. p. 2680; Gaz. vol. 141; p. 474.  
Wall-bracket, Adjustable. R. B. Savin and W. C. Harvey. No. 919,777; Apr. 27; Sp. p. 6023; Gaz. vol. 141; p. 1035.  
Wall, ceiling, and surface covering, Flexible. C. R. Frantz. No. 935,903; Oct. 5; Sp. p. 650; Gaz. vol. 147; p. 94.  
Wall-coating, Interior. W. B. Allen. No. 930,264; Aug. 3; Sp. p. 1304; Gaz. vol. 145; p. 216.



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- Wall construction. F. Koch. No. 920,967; May 11; Sp. p. 1785; Gaz. vol. 142; p. 317.  
 Wall construction. G. P. White. No. 926,224; June 29; Sp. p. 6590; Gaz. vol. 143; p. 1164.  
 Wall-coping. G. Grenzebach. No. 931,922; Aug. 24; Sp. p. 4889; Gaz. vol. 145; p. 538.  
 Wall-covering. W. M. Stevenson. No. 942,019; Nov. 30; Sp. p. 7813; Gaz. vol. 148; p. 1316.  
 Wall-decoration. G. W. Dunn. No. 932,377; Aug. 24; Sp. p. 5795; Gaz. vol. 145; p. 990.  
 Wall, Fireproof. J. S. Dryden. No. 915,570; Mar. 16; Sp. p. 3949; Gaz. vol. 140; p. 682.  
 Wall, Fireproof. J. S. Gard. No. 916,141; Mar. 23; Sp. p. 5069; Gaz. vol. 140; p. 898.  
 Wall-lining. W. Lemb. No. 915,195; Mar. 16; Sp. p. 3207; Gaz. vol. 140; p. 560.  
 Wall metal construction. H. R. Myers. No. 916,356; Mar. 23; Sp. p. 5460; Gaz. vol. 140; p. 969.  
 Wall mold, Concrete-. L. Barg. No. 913,090; Feb. 23; Sp. p. 4262; Gaz. vol. 139; p. 772.  
 Wall of plastic material, such as concrete, &c., Retaining or quay. G. F. Wood. No. 936,843; Oct. 12; Sp. p. 2593; Gaz. vol. 147; p. 433.  
 Wall-paper-drying apparatus. W. J. Vornhold. No. 914,767; Mar. 9; Sp. p. 2346; Gaz. vol. 140; p. 394.  
 Wall-plug. F. M. Marshall. No. 927,367; July 6; Sp. p. 1326; Gaz. vol. 144; p. 221.  
 Wall-plug. W. V. Heinz. No. 931,869; Aug. 24; Sp. p. 4744; Gaz. vol. 145; p. 821.  
 Wall-plug. H. I. Jeffers. No. 936,322; Oct. 12; Sp. p. 1484; Gaz. vol. 147; p. 256.  
 Wall pocket and rack. C. B. Yoxheimer. No. 929,361; July 27; Sp. p. 5553; Gaz. vol. 144; p. 973.  
 Wall-rack. E. A. Christoph. No. 926,468; June 29; Sp. p. 7044; Gaz. vol. 143; p. 1242.  
 Wall, Reinforced-concrete retaining-. E. Godfrey. No. 915,590; Mar. 16; Sp. p. 3986; Gaz. vol. 140; p. 689.  
 Wall, Retaining-. M. M. Upson. No. 938,091; Oct. 26; Sp. p. 5210; Gaz. vol. 147; p. 893.  
 Wall-supporting device for trenches. W. Z. Langhterback. No. 909,808; Jan. 12; Sp. p. 2765; Gaz. vol. 138; p. 487.  
 Wall-switch. W. J. Newton. No. 917,348; Apr. 6; Sp. p. 802; Gaz. vol. 141; p. 137.  
 Wall-tie. J. H. Coffman. No. 930,267; Aug. 3; Sp. p. 1308; Gaz. vol. 145; p. 216.  
 Wall-tie. J. Schirra and M. G. Frank. No. 933,925; Sept. 14; Sp. p. 1963; Gaz. vol. 146; p. 323.  
 Wall-tie for masonry. F. A. Porter. No. 917,656; Apr. 6; Sp. p. 1349; Gaz. vol. 141; p. 238.  
 Walls and the like, Rib for. G. B. Waite. No. 932,197; Aug. 24; Sp. p. 5469; Gaz. vol. 145; p. 931.  
 Walls, ceilings, &c., Fastening device for slabs for. H. B. Copeland. No. 916,916; Mar. 30; Sp. p. 6581; Gaz. vol. 140; p. 1173.  
 Walls, &c., Construction of supports for building-. J. Breuchaud. No. 944,476; Dec. 28; Sp. p. 5246; Gaz. vol. 149; p. 919.  
 Walls, Reinforced construction of. J. T. Flynn. No. 932,261; Aug. 24; Sp. p. 5585; Gaz. vol. 145; p. 952.  
 Walls, &c., Reinforcement for brick. T. A. Weaver. No. 938,925; Nov. 2; Sp. p. 1049; Gaz. vol. 148; p. 166.  
 Walls, Underpinning and supporting. T. K. Thomson. No. 918,100; Apr. 13; Sp. p. 2315; Gaz. vol. 141; p. 416.  
 Wallet. J. R. Cardwell. No. 940,853; Nov. 23; Sp. p. 5343; Gaz. vol. 148; p. 906.  
 War-machine. J. Bouséal. No. 936,296; Oct. 12; Sp. p. 1427; Gaz. vol. 147; p. 243.  
 Wardrobe, cupboard, or the like, Folding. A. Ullom. No. 933,210; Sept. 7; Sp. p. 400; Gaz. vol. 146; p. 62.  
 Wardrobe for bedsteads. H. B. Williams. No. 936,969; Oct. 12; Sp. p. 2837; Gaz. vol. 147; p. 473.  
 Wardrobe garment-support. W. Freeman. No. 915,340; Mar. 16; Sp. p. 3473; Gaz. vol. 140; p. 606.  
 Wardrobe, Portable. W. F. Eichelman. No. 930,367; Aug. 10; Sp. p. 1507; Gaz. vol. 145; p. 274.  
 Warning-signal and stopping device for the safe movement of public conveyances. W. Whitman. No. 942,388; Dec. 7; Sp. p. 740; Gaz. vol. 149; p. 121.  
 Warp-balling machine. W. G. Denn. No. 942,813; Dec. 7; Sp. p. 1603; Gaz. vol. 149; p. 263.  
 Warp-beam head. T. J. Sands. No. 927,005; July 6; Sp. p. 623; Gaz. vol. 144; p. 101.  
 Warp-beam tension device. G. Keller. No. 941,201; Nov. 23; Sp. p. 6093; Gaz. vol. 148; p. 1022.  
 Warp-carriage. H. D. Colman. No. 938,124; Oct. 26; Sp. p. 5282; Gaz. vol. 147; p. 904.  
 Warp-carriage. H. D. Colman. No. 942,247; Dec. 7; Sp. p. 472; Gaz. vol. 149; p. 73.  
 Warp-frame. W. L. Dorr. No. 938,130; Oct. 26; Sp. p. 5297; Gaz. vol. 147; p. 906.  
 Warp-levelling apparatus. O. Fischer. No. 914,401; Mar. 9; Sp. p. 1596; Gaz. vol. 140; p. 272.  
 Warp-levelling apparatus. O. Fischer. No. 944,726; Dec. 28; Sp. p. 5807; Gaz. vol. 149; p. 1004.  
 Warp-spacing device. J. G. Gourdeau. No. 921,236; May 11; Sp. p. 2335; Gaz. vol. 142; p. 409.  
 Warp stop-motion, Electric. J. Regan. No. 939,924; Nov. 9; Sp. p. 3245; Gaz. vol. 148; p. 535.  
 Warp-twisting-in machine. G. Hiller. No. 913,499; Feb. 23; Sp. p. 5091; Gaz. vol. 139; p. 910.  
 Warps, Arrangement for tension and let-off of. S. Toyoda. No. 917,682; Apr. 6; Sp. p. 1391; Gaz. vol. 141; p. 246.  
 Warping and beaming machine. N. A. Hover. No. 922,144; May 18; Sp. p. 4208; Gaz. vol. 142; p. 736.  
 Warping-machine. R. Whitley. No. 910,979; Jan. 26; Sp. p. 5182; Gaz. vol. 138; p. 934.  
 Warping-machine. N. A. Hover. No. 921,403; May 11; Sp. p. 2700; Gaz. vol. 142; p. 464.  
 Warping-machine. G. Sipp. No. 940,080; Nov. 16; Sp. p. 3626; Gaz. vol. 148; p. 619.  
 Warping or reeling mechanism. C. P. Thiel. No. 934,580; Sept. 21; Sp. p. 3229; Gaz. vol. 146; p. 563.  
 Warping-reed. H. Watson. No. 920,701; May 4; Sp. p. 1253; Gaz. vol. 142; p. 199.  
 Washer: See Air-washer; Antifriction-washer; Axle-box washer; Blue-print washer; Bottle-washer; Clothes-washer; Coal-washer; Coal or ore washer; Cock-seating washer; Dish-washer; Egg-washer; Faucet or street-washer; Fruit-washer; Gas-washer; Gold and sand washer; Lubricating-washer; Nut-locking washer; Ore-washer; Overhead washer; Photograph-print washer; Polishing-wheel washer; Smoke-washer; Steam-washer; Tie-plate washer; Tumbler-washer; Vegetable-washer; Window-washer.  
 Washer. M. D. Willard. No. 937,199; Oct. 19; Sp. p. 3325; Gaz. vol. 147; p. 578.  
 Washer. H. A. Davis. No. 938,302; Oct. 26; Sp. p. 5667; Gaz. vol. 147; p. 965.  
 Washer and gasket cutter. J. A. Rose. No. 945,009; Dec. 28; Sp. p. 6402; Gaz. vol. 149; p. 1093.  
 Washer cylinder-door. F. Snow. No. 912,041; Feb. 9; Sp. p. 2081; Gaz. vol. 139; p. 362.  
 Washer-gasket. H. Mueller. No. 936,554; Oct. 12; Sp. p. 2017; Gaz. vol. 147; p. 333.  
 Washer or button feeding attachment for setting-machines. E. B. Stimpson. No. 922,640; May 25; Sp. p. 5237; Gaz. vol. 142; p. 926.  
 Washer or button feeding attachment for setting-machines. S. Grossman. No. 925,088; June 15; Sp. p. 4256; Gaz. vol. 143; p. 725.  
 Washer-retainer. W. B. Welch, Jr. No. 917,388; Apr. 6; Sp. p. 869; Gaz. vol. 141; p. 149.  
 Washers, Bearing for sterilizing-. W. Bartholomew. No. 940,663; Nov. 23; Sp. p. 4925; Gaz. vol. 148; p. 842.  
 Washing apparatus. F. Sochurek, Sr. No. 915,898; Mar. 23; Sp. p. 4617; Gaz. vol. 140; p. 818.  
 Washing apparatus, Sheet-. I. W. Marshall. No. 924,683; June 15; Sp. p. 3418; Gaz. vol. 143; p. 588.  
 Washing appliance, Clothes-. F. Nowak. No. 920,987; May 11; Sp. p. 1816; Gaz. vol. 142; p. 323.  
 Washing compound and making same, Clothes-. J. H. Schlueter. No. 931,498; Aug. 17; Sp. p. 3953; Gaz. vol. 145; p. 681.  
 Washing device. A. B. Moon. No. 913,533; Feb. 23; Sp. p. 5167; Gaz. vol. 139; p. 921.  
 Washing device. H. J. Behrens. No. 932,949; Aug. 31; Sp. p. 6997; Gaz. vol. 145; p. 1202.  
 Washing device, Clothes-. G. B. Wilson. No. 927,202; July 6; Sp. p. 1038; Gaz. vol. 144; p. 158.  
 Washing device for cleaning wounds. J. Reusch. No. 910,859; Jan. 26; Sp. p. 4956; Gaz. vol. 138; p. 895.  
 Washing, fruit-canning, and cooking machine, Combined. M. W. Miracle. No. 943,152; Dec. 14; Sp. p. 2426; Gaz. vol. 149; p. 412.  
 Washing-machine. P. Schneider. No. 908,808; Jan. 5; Sp. p. 784; Gaz. vol. 138; p. 123.  
 Washing-machine. R. E. L. Johnston. No. 909,803; Jan. 12; Sp. p. 2756; Gaz. vol. 138; p. 485.  
 Washing-machine. C. A. Pettersen. No. 910,570; Jan. 26; Sp. p. 4387; Gaz. vol. 138; p. 804.  
 Washing-machine. G. L. Martin. No. 911,737; Feb. 9; Sp. p. 1416; Gaz. vol. 139; p. 263.  
 Washing-machine. J. W. Seifert. No. 912,038; Feb. 9; Sp. p. 2074; Gaz. vol. 139; p. 361.  
 Washing-machine. O. and M. Froesé. No. 912,107; Feb. 9; Sp. p. 2220; Gaz. vol. 139; p. 384.  
 Washing-machine. T. C. Josselyn. No. 913,506; Feb. 23; Sp. p. 5106; Gaz. vol. 139; p. 912.  
 Washing-machine. P. Whyte and H. Geschwindner. No. 914,213; Mar. 2; Sp. p. 1186; Gaz. vol. 140; p. 186.  
 Washing-machine. A. A. Day. No. 914,642; Mar. 9; Sp. p. 2065; Gaz. vol. 140; p. 351.  
 Washing-machine. E. Hacker. No. 914,717; Mar. 9; Sp. p. 2242; Gaz. vol. 140; p. 376.  
 Washing-machine. A. C. Willis. No. 915,143; Mar. 16; Sp. p. 3093; Gaz. vol. 140; p. 542.  
 Washing-machine. F. Dunsmuir. No. 915,572; Mar. 16; Sp. p. 3952; Gaz. vol. 140; p. 682.  
 Washing-machine. J. Stauder. No. 915,803; Mar. 23; Sp. p. 4437; Gaz. vol. 140; p. 788.  
 Washing-machine. E. H. Braden. No. 915,823; Mar. 23; Sp. p. 4478; Gaz. vol. 140; p. 794.  
 Washing-machine. A. H. Cutright. No. 917,014; Apr. 6; Sp. p. 101; Gaz. vol. 141; p. 22.  
 Washing-machine. W. S. Hamilton and J. R. Williams. No. 917,290; Apr. 6; Sp. p. 685; Gaz. vol. 141; p. 116.  
 Washing-machine. L. M. Wilson. No. 917,826; Apr. 13; Sp. p. 1739; Gaz. vol. 141; p. 320.  
 Washing-machine. D. H. Bashore. No. 917,990; Apr. 13; Sp. p. 2102; Gaz. vol. 141; p. 377.  
 Washing-machine. A. Gates. No. 918,995; Apr. 20; Sp. p. 4244; Gaz. vol. 141; p. 741.  
 Washing-machine. J. M. O'Neill. No. 919,629; Apr. 27; Sp. p. 5734; Gaz. vol. 141; p. 986.  
 Washing-machine. F. E. Lamb. No. 920,760; May 4; Sp. p. 1341; Gaz. vol. 142; p. 218.  
 Washing-machine. F. M. Mitchell. No. 920,977; May 11; Sp. p. 1800; Gaz. vol. 142; p. 319.  
 Washing-machine. R. Rainalter. No. 921,282; May 11; Sp. p. 2437; Gaz. vol. 142; p. 424.  
 Washing-machine. R. J. Pollard. No. 921,885; May 18; Sp. p. 3693; Gaz. vol. 142; p. 651.

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 Washing-machine. G. R. Adams. No. 923,101; May 25; Sp. p. 6196; Gaz. vol. 142; p. 1074.  
 Washing-machine. G. A. Post. No. 923,888; June 8; Sp. p. 1762; Gaz. vol. 143; p. 294.  
 Washing-machine. J. H. Pearson. No. 924,578; June 8; Sp. p. 3179; Gaz. vol. 143; p. 519.  
 Washing-machine. B. J. Harrell. No. 924,776; June 15; Sp. p. 3620; Gaz. vol. 143; p. 621.  
 Washing-machine. J. Kolin. No. 924,797; June 15; Sp. p. 3662; Gaz. vol. 143; p. 627.  
 Washing-machine. E. Elsemann. (Reissue.) No. 12,976; June 15; Sp. p. 4928; Gaz. vol. 143; p. 842.  
 Washing-machine. J. C. Simmons. No. 926,776; July 6; Sp. p. 137; Gaz. vol. 144; p. 22.  
 Washing-machine. D. W. Phillippy. No. 927,069; July 6; Sp. p. 783; Gaz. vol. 144; p. 124.  
 Washing-machine. W. Neuner. No. 927,584; July 13; Sp. p. 1803; Gaz. vol. 144; p. 321.  
 Washing-machine. C. Jackson. No. 927,727; July 13; Sp. p. 2131; Gaz. vol. 144; p. 369.  
 Washing-machine. W. J. Zuill. No. 927,918; July 13; Sp. p. 2546; Gaz. vol. 144; p. 433.  
 Washing-machine. J. H. Knoll. No. 928,984; July 27; Sp. p. 4717; Gaz. vol. 144; p. 846.  
 Washing-machine. R. Twohig. No. 929,999; Aug. 3; Sp. p. 801; Gaz. vol. 145; p. 128.  
 Washing-machine. T. McEachran. No. 930,680; Aug. 10; Sp. p. 2165; Gaz. vol. 145; p. 378.  
 Washing-machine. W. P. Nash. No. 932,165; Aug. 24; Sp. p. 5395; Gaz. vol. 145; p. 920.  
 Washing-machine. A. L. Koeneke. No. 932,617; Aug. 31; Sp. p. 6342; Gaz. vol. 145; p. 1094.  
 Washing-machine. W. D. Combs. No. 932,759; Aug. 31; Sp. p. 6634; Gaz. vol. 145; p. 1141.  
 Washing-machine. E. F. Beebe. No. 933,050; Sept. 7; Sp. p. 14; Gaz. vol. 146; p. 5.  
 Washing-machine. P. P. Kiel. No. 933,183; Sept. 7; Sp. p. 320; Gaz. vol. 146; p. 52.  
 Washing-machine. H. W. Darrow. No. 933,295; Sept. 7; Sp. p. 598; Gaz. vol. 146; p. 92.  
 Washing-machine. S. Hartmann. No. 933,300; Sept. 7; Sp. p. 610; Gaz. vol. 146; p. 94.  
 Washing-machine. D. W. Scott. No. 933,348; Sept. 7; Sp. p. 709; Gaz. vol. 146; p. 110.  
 Washing-machine. S. V. Brammer. No. 933,618; Sept. 7; Sp. p. 1345; Gaz. vol. 146; p. 200.  
 Washing-machine. A. S. Nero. No. 934,458; Sept. 21; Sp. p. 3010; Gaz. vol. 146; p. 524.  
 Washing-machine. W. W. Hoehnen. No. 934,528; Sept. 21; Sp. p. 3133; Gaz. vol. 146; p. 546.  
 Washing-machine. J. D. Butler. No. 934,592; Sept. 21; Sp. p. 3254; Gaz. vol. 146; p. 567.  
 Washing-machine. J. D. Williams. No. 935,441; Sept. 28; Sp. p. 4954; Gaz. vol. 146; p. 875.  
 Washing-machine. G. F. Whitcomb. No. 935,570; Sept. 28; Sp. p. 5240; Gaz. vol. 146; p. 919.  
 Washing-machine. E. F. Beebe. No. 935,953; Oct. 5; Sp. p. 751; Gaz. vol. 147; p. 111.  
 Washing-machine. M. St. Clair. No. 936,178; Oct. 5; Sp. p. 1211; Gaz. vol. 147; p. 183.  
 Washing-machine. H. S. Judd. No. 936,634; Oct. 12; Sp. p. 2191; Gaz. vol. 147; p. 362.  
 Washing-machine. H. Kraut. No. 936,642; Oct. 12; Sp. p. 2203; Gaz. vol. 147; p. 364.  
 Washing-machine. J. J. Fuchs, Jr. No. 936,770; Oct. 12; Sp. p. 2450; Gaz. vol. 147; p. 408.  
 Washing-machine. A. A. Zachary. No. 937,734; Oct. 19; Sp. p. 4444; Gaz. vol. 147; p. 754.  
 Washing-machine. W. C. and L. R. Simmons. No. 939,340; Nov. 9; Sp. p. 1969; Gaz. vol. 148; p. 335.  
 Washing-machine. T. H. Lewis and H. C. Graves. No. 940,882; Nov. 23; Sp. p. 5399; Gaz. vol. 148; p. 915.  
 Washing-machine. W. E. Devore. No. 941,344; Nov. 23; Sp. p. 6371; Gaz. vol. 148; p. 1066.  
 Washing-machine. M. M. Hanson. No. 941,989; Nov. 30; Sp. p. 7758; Gaz. vol. 148; p. 1307.  
 Washing-machine. E. Ramthun and C. J. Gutekunst. No. 942,664; Dec. 7; Sp. p. 1314; Gaz. vol. 149; p. 216.  
 Washing-machine. J. Száva. No. 942,758; Dec. 7; Sp. p. 1497; Gaz. vol. 149; p. 246.  
 Washing-machine. G. A. Carlson. No. 943,177; Dec. 14; Sp. p. 2462; Gaz. vol. 149; p. 419.  
 Washing-machine. E. C. Waring. No. 948,581; Dec. 14; Sp. p. 3304; Gaz. vol. 149; p. 557.  
 Washing-machine. W. Witt. No. 943,855; Dec. 21; Sp. p. 3914; Gaz. vol. 149; p. 681.  
 Washing-machine. B. Kiss. No. 944,041; Dec. 21; Sp. p. 4323; Gaz. vol. 149; p. 745.  
 Washing-machine. A. W. Shank. No. 944,285; Dec. 28; Sp. p. 4826; Gaz. vol. 149; p. 851.  
 Washing-machine. N. Lombard. No. 944,736; Dec. 28; Sp. p. 5837; Gaz. vol. 149; p. 1008.  
 Washing-machine. A. F. Amelung. No. 944,935; Dec. 28; Sp. p. 6252; Gaz. vol. 149; p. 1074.  
 Washing-machine attachment. P. Miller. No. 913,904; Mar. 2; Sp. p. 504; Gaz. vol. 140; p. 81.  
 Washing-machine attachment. F. L. Bartelt. No. 933,358; Sept. 7; Sp. p. 732; Gaz. vol. 146; p. 114.  
 Washing-machine attachment. S. Bowman. No. 941,304; Nov. 23; Sp. p. 6306; Gaz. vol. 148; p. 1055.  
 Washing-machine clothes-holder. L. W. Mammen. No. 921,262; May 11; Sp. p. 2383; Gaz. vol. 142; p. 418.  
 Washing-machine cylinder. C. Jensen. No. 910,288; Jan. 19; Sp. p. 3798; Gaz. vol. 138; p. 684.  
 Washing-machine cylinder. C. Jensen. No. 934,971; Sept. 21; Sp. p. 4011; Gaz. vol. 146; p. 697.  
 Washing-machine cylinder. C. Jensen. No. 943,682; Dec. 21; Sp. p. 3568; Gaz. vol. 149; p. 621.  
 Washing-machine driving mechanism. K. E. Bills. No. 944,656; Dec. 28; Sp. p. 5656; Gaz. vol. 149; p. 981.  
 Washing-machine gearing. A. F. Victor. No. 916,068; Mar. 23; Sp. p. 4934; Gaz. vol. 140; p. 874.  
 Washing-machine gearing. W. C. Fawkes. No. 917,032; Apr. 6; Sp. p. 145; Gaz. vol. 141; p. 28.  
 Washing-machine gearing. W. H. Voss. No. 918,934; Apr. 20; Sp. p. 4109; Gaz. vol. 141; p. 721.  
 Washing-machine gearing. H. W. Darrow. No. 923,819; June 8; Sp. p. 1636; Gaz. vol. 143; p. 271.  
 Washing-machine gearing. F. E. Thompson. No. 930,706; Aug. 10; Sp. p. 2226; Gaz. vol. 145; p. 387.  
 Washing-machine gearing. H. Cammack. No. 933,692; Sept. 7; Sp. p. 1491; Gaz. vol. 146; p. 224.  
 Washing-machine gearing. A. A. Clausen. No. 934,886; Sept. 21; Sp. p. 3838; Gaz. vol. 146; p. 666.  
 Washing-machine gearing. W. Ruthven. No. 935,551; Sept. 28; Sp. p. 5200; Gaz. vol. 146; p. 912.  
 Washing-machine gearing. W. Ruthven. No. 935,552; Sept. 28; Sp. p. 5203; Gaz. vol. 146; p. 913.  
 Washing-machine gearing. W. Ruthven. No. 935,553; Sept. 28; Sp. p. 5205; Gaz. vol. 146; p. 913.  
 Washing-machine gearing. A. Van Wormer. No. 939,645; Nov. 9; Sp. p. 2651; Gaz. vol. 148; p. 438.  
 Washing-machine gearing device. W. H. Johnson. No. 940,253; Nov. 16; Sp. p. 3992; Gaz. vol. 148; p. 679.  
 Washing-machine operating mechanism. H. G. Braunlich. No. 932,534; Aug. 31; Sp. p. 6139; Gaz. vol. 145; p. 1065.  
 Washing-machine operating mechanism. J. Edens. No. 933,895; Sept. 14; Sp. p. 1901; Gaz. vol. 146; p. 314.  
 Washing-machine operating mechanism. G. N. Meves. No. 933,913; Sept. 14; Sp. p. 1944; Gaz. vol. 146; p. 320.  
 Washing-machine operating mechanism. W. V. Frank. No. 935,901; Oct. 5; Sp. p. 644; Gaz. vol. 147; p. 94.  
 Washing-machine power-transmitting device. T. J. Winans. No. 912,927; Feb. 16; Sp. p. 3932; Gaz. vol. 139; p. 692.  
 Washing-machine rake. A. C. Sargent. No. 928,336; July 20; Sp. p. 3433; Gaz. vol. 144; p. 604.  
 Washing-machine, Rotary. H. Stitzel. No. 925,525; June 22; Sp. p. 5088; Gaz. vol. 143; p. 896.  
 Washing-machine, Rotary. W. E. Perry. No. 938,506; Nov. 2; Sp. p. 128; Gaz. vol. 148; p. 20.  
 Washing-machine, Rotary-cylinder. C. Jensen. No. 914,577; Mar. 9; Sp. p. 1937; Gaz. vol. 140; p. 331.  
 Washing-machines, Operating mechanism for the dollies of. R. D. Tittle. No. 937,195; Oct. 19; Sp. p. 3318; Gaz. vol. 147; p. 577.  
 Washbasin. D. W. McNeil. No. 912,598; Feb. 16; Sp. p. 3255; Gaz. vol. 139; p. 584.  
 Washbasin attachment. L. J. Monahan. No. 915,057; Mar. 9; Sp. p. 2867; Gaz. vol. 140; p. 486.  
 Washbench. W. J. Holly. No. 919,353; Apr. 27; Sp. p. 5132; Gaz. vol. 141; p. 891.  
 Washbench. J. E. Kalgren. No. 920,476; May 4; Sp. p. 771; Gaz. vol. 142; p. 125.  
 Washbench. G. L. Darrow. No. 932,683; Aug. 31; Sp. p. 6476; Gaz. vol. 145; p. 1116.  
 Washboard. S. W. Wigner. No. 910,335; Jan. 19; Sp. p. 3891; Gaz. vol. 138; p. 700.  
 Washboard. M. A. Henle. No. 914,836; Mar. 9; Sp. p. 2491; Gaz. vol. 140; p. 416.  
 Washboard. M. E. Brown. No. 916,263; Mar. 23; Sp. p. 5296; Gaz. vol. 140; p. 937.  
 Washboard. D. Hughes. No. 924,466; June 8; Sp. p. 2950; Gaz. vol. 143; p. 483.  
 Washboard. J. Schneider. No. 934,222; Sept. 14; Sp. p. 2548; Gaz. vol. 146; p. 421.  
 Washboard. E. A. Hodge. No. 935,026; Sept. 28; Sp. p. 4124; Gaz. vol. 146; p. 739.  
 Washboard. J. E. Byrnes. No. 937,985; Oct. 26; Sp. p. 4973; Gaz. vol. 147; p. 857.  
 Washboard. H. A. Bierley. No. 940,499; Nov. 16; Sp. p. 4571; Gaz. vol. 148; p. 763.  
 Washboard. D. C. Juleson. No. 942,076; Dec. 7; Sp. p. 74; Gaz. vol. 149; p. 14.  
 Washboard attachment. T. F. Hoban. No. 935,025; Sept. 28; Sp. p. 4123; Gaz. vol. 146; p. 739.  
 Washboard attachment. M. G. Sarno. No. 940,896; Nov. 23; Sp. p. 5428; Gaz. vol. 148; p. 920.  
 Washboard, Self-soaping. F. M. Gerdon. No. 933,641; Sept. 7; Sp. p. 1379; Gaz. vol. 146; p. 207.  
 Washboard soap-holder. R. E. Toss. No. 923,911; June 8; Sp. p. 1808; Gaz. vol. 143; p. 301.  
 Washboards, Soap-holder for. L. Nussbaum, Sr. No. 932,313; Aug. 24; Sp. p. 5679; Gaz. vol. 145; p. 969.  
 Washboiler. G. J. and F. Hach and H. Bosch. No. 918,671; Apr. 20; Sp. p. 3552; Gaz. vol. 141; p. 633.  
 Washboiler. E. L. Ridgway. No. 919,382; Apr. 27; Sp. p. 5196; Gaz. vol. 141; p. 901.  
 Washboiler. E. F. Parker. No. 920,171; May 4; Sp. p. 151; Gaz. vol. 142; p. 24.  
 Washboiler. A. R. Pritchard. No. 935,325; Sept. 28; Sp. p. 4727; Gaz. vol. 146; p. 838.  
 Washboiler. I. Mozley. No. 936,926; Oct. 12; Sp. p. 2752; Gaz. vol. 147; p. 460.



*Alphabetical list of inventions—Continued.*

- Washboiler attachment. C. Moleto. No. 928,062; July 13; Sp. p. 2825; Gaz. vol. 144; p. 481.  
Washboiler attachment. A. J. Brady. No. 944,411; Dec. 28; Sp. p. 5110; Gaz. vol. 149; p. 897.  
Washbowl, Sanitary. C. F. Tollzien. No. 913,323; Feb. 23; Sp. p. 4753; Gaz. vol. 139; p. 851.  
Washcloth and towel. H. J. B. Gravier. No. 934,724; Sept. 21; Sp. p. 3522; Gaz. vol. 146; p. 613.  
Washpan. P. Schlueter. No. 924,384; June 8; Sp. p. 2811; Gaz. vol. 143; p. 457.  
Washtray-bib. H. Mueller. No. 936,278; Oct. 5; Sp. p. 1392; Gaz. vol. 147; p. 215.  
Washtrub and heater, Combined. M. E. Brattin. No. 933,954; Sept. 14; Sp. p. 2020; Gaz. vol. 146; p. 333.  
Washtrub and sink, Combined. T. N. Furlong. No. 909,392; Jan. 12; Sp. p. 1941; Gaz. vol. 138; p. 346.  
Washtrub-cover. A. Adams. No. 941,054; Nov. 23; Sp. p. 5760; Gaz. vol. 148; p. 972.  
Washtrub or wringer stand. P. M. Wiebe. No. 929,739; Aug. 3; Sp. p. 218; Gaz. vol. 145; p. 38.  
Washtrub-stand. C. Jackson. No. 927,728; July 13; Sp. p. 2132; Gaz. vol. 144; p. 370.  
Waste and overflow, Combined. J. B. Wise. No. 917,395; Apr. 6; Sp. p. 884; Gaz. vol. 141; p. 152.  
Waste-basket. W. H. Knobloch. No. 908,579; Jan. 5; Sp. p. 306; Gaz. vol. 138; p. 52.  
Waste, Combination. J. L. Fruin. No. 927,035; July 6; Sp. p. 699; Gaz. vol. 144; p. 112.  
Waste, Recovering materials from. W. H. Allen. No. 944,533; Dec. 28; Sp. p. 5397; Gaz. vol. 149; p. 939.  
Waste-trap. L. E. Welch. No. 933,279; Sept. 7; Sp. p. 571; Gaz. vol. 146; p. 87.  
Waste-water-straining device. O. Schumann. No. 914,758; Mar. 9; Sp. p. 2332; Gaz. vol. 140; p. 391.  
Watch. W. B. Mehl. No. 922,013; May 18; Sp. p. 3968; Gaz. vol. 142; p. 693.  
Watch. A. Pfister. No. 922,809; May 25; Sp. p. 5583; Gaz. vol. 142; p. 980.  
Watch. E. H. Horn. No. 926,329; June 29; Sp. p. 6796; Gaz. vol. 143; p. 1196.  
Watch. A. Aune. No. 940,117; Nov. 16; Sp. p. 5709; Gaz. vol. 148; p. 632.  
Watch, Alarm-. J. B. Connolly. No. 944,948; Dec. 28; Sp. p. 6274; Gaz. vol. 149; p. 1078.  
Watch-balance-staff supporter. L. Prisant. No. 943,890; Dec. 21; Sp. p. 3992; Gaz. vol. 149; p. 692.  
Watch-bow attachment. C. Arthur. No. 911,361; Feb. 2; Sp. p. 664; Gaz. vol. 139; p. 113.  
Watch-chain hook. F. E. Forsell. No. 917,039; Apr. 6; Sp. p. 158; Gaz. vol. 141; p. 30.  
Watch for counting the pulse by sound or touch. H. A. Lugin. No. 916,953; Mar. 30; Sp. p. 6658; Gaz. vol. 140; p. 1187.  
Watch-glasses and grooves and fillets, Gage for. A. Guérineau. No. 920,051; Apr. 27; Sp. p. 6619; Gaz. vol. 141; p. 1125.  
Watch-guard. J. Reep. No. 911,761; Feb. 9; Sp. p. 1455; Gaz. vol. 139; p. 271.  
Watch-guard. E. M. Loewenthal. No. 936,002; Oct. 5; Sp. p. 853; Gaz. vol. 147; p. 128.  
Watch-guard. S. Rosofsky. No. 943,271; Dec. 14; Sp. p. 2662; Gaz. vol. 149; p. 451.  
Watch-guard, Safety. L. Freedman. No. 926,401; June 29; Sp. p. 6923; Gaz. vol. 143; p. 1219.  
Watch-hand remover. F. R. Cunningham. No. 922,096; May 18; Sp. p. 4124; Gaz. vol. 142; p. 721.  
Watch-holder, Pocket. R. F. Pike. No. 908,885; Jan. 5; Sp. p. 941; Gaz. vol. 138; p. 149.  
Watch mechanism. R. L. Marshall. No. 921,859; May 18; Sp. p. 3653; Gaz. vol. 142; p. 643.  
Watch-movement. G. Nutting and J. J. Smith. No. 917,788; Apr. 13; Sp. p. 1660; Gaz. vol. 141; p. 308.  
Watch-movement. H. Sandoz. No. 922,197; May 18; Sp. p. 4331; Gaz. vol. 142; p. 753.  
Watch-movement holder. G. W. Bowers. No. 938,817; Nov. 2; Sp. p. 789; Gaz. vol. 148; p. 127.  
Watch-pocket. R. A. Stone. No. 908,709; Jan. 5; Sp. p. 595; Gaz. vol. 138; p. 92.  
Watch-pocket, Vest. L. B. Avery. No. 935,085; Sept. 28; Sp. p. 4256; Gaz. vol. 146; p. 761.  
Watch potence or balance-foot. J. H. Gorman. No. 934,305; Sept. 14; Sp. p. 2703; Gaz. vol. 146; p. 449.  
Watch-pouch. S. L. Cohen. No. 920,433; May 4; Sp. p. 699; Gaz. vol. 142; p. 110.  
Watch-protector. M. Kaufman. No. 911,657; Feb. 9; Sp. p. 1268; Gaz. vol. 139; p. 238.  
Watch, Repeating. T. A. and J. B. Connolly. No. 933,696; Sept. 7; Sp. p. 1499; Gaz. vol. 146; p. 226.  
Watch setting device. J. H. Gorman. No. 939,009; Nov. 2; Sp. p. 1210; Gaz. vol. 148; p. 193.  
Watch setting mechanism. A. Plean. No. 939,082; Nov. 2; Sp. p. 1345; Gaz. vol. 148; p. 219.  
Watch-stem. G. Hart. No. 915,433; Mar. 16; Sp. p. 3660; Gaz. vol. 140; p. 637.  
Watch, Stem-winding. H. W. Matalene. No. 918,757; Apr. 20; Sp. p. 3734; Gaz. vol. 141; p. 662.  
Watch, Stem-winding. H. W. Matalene. No. 918,758; Apr. 20; Sp. p. 3736; Gaz. vol. 141; p. 663.  
Watch, Stem winding and setting. H. W. Matalene. No. 918,759; Apr. 20; Sp. p. 3738; Gaz. vol. 141; p. 663.  
Watch, Stem winding and setting. W. E. Porter. No. 919,764; Apr. 27; Sp. p. 5993; Gaz. vol. 141; p. 1030.  
Watch, Stem winding and setting. W. E. Porter. No. 927,596; July 13; Sp. p. 1845; Gaz. vol. 144; p. 327.  
Watch, Stem-winding mechanism. A. Plean. No. 939,081; Nov. 2; Sp. p. 1342; Gaz. vol. 148; p. 218.  
Watch winding and setting mechanism. E. Hart. No. 944,860; Dec. 28; Sp. p. 6113; Gaz. vol. 149; p. 1050.  
Watch winding-indicator. L. L. D. Elderkin. No. 918,132; Apr. 13; Sp. p. 2583; Gaz. vol. 141; p. 427.  
Watches and clocks, Individual hair-spring-stud index for. C. Teske. No. 940,750; Nov. 23; Sp. p. 6116; Gaz. vol. 148; p. 871.  
Watches, Dust-proof sleeve for stem-winding. F. J. Hughes. No. 935,028; Sept. 28; Sp. p. 4128; Gaz. vol. 146; p. 740.  
Watches, Tool for adjusting the cocks or bridge-pieces of. A. A. Turnage. No. 920,223; May 4; Sp. p. 268; Gaz. vol. 142; p. 43.  
Watches, &c., Winding and hand-setting mechanism for. H. Roost. No. 927,877; July 13; Sp. p. 2446; Gaz. vol. 144; p. 418.  
Watchcase. C. V. Bates. No. 919,117; Apr. 20; Sp. p. 4459; Gaz. vol. 141; p. 779.  
Watchcase-protector. J. B. Hale. No. 914,140; Mar. 2; Sp. p. 1039; Gaz. vol. 140; p. 164.  
Watchmaker's instrument. C. A. Braun. No. 918,821; Apr. 20; Sp. p. 3871; Gaz. vol. 141; p. 683.  
Watchmaker's instrument. C. A. Braun. No. 918,822; Apr. 20; Sp. p. 3873; Gaz. vol. 141; p. 683.  
Watchmaker's lathes, Tool-rest for. F. W. Derbyshire. No. 936,422; Oct. 12; Sp. p. 1733; Gaz. vol. 147; p. 290.  
Watchmaker's roller-replacing tool. G. W. Bowers. No. 938,819; Nov. 2; Sp. p. 792; Gaz. vol. 148; p. 128.  
Watchmaker's tool. C. H. Pratt. No. 937,860; Oct. 26; Sp. p. 4717; Gaz. vol. 147; p. 816.  
Water, acid, and alkali proof articles, Manufacture of. I. L. Roberts. No. 921,000; May 11; Sp. p. 1845; Gaz. vol. 142; p. 327.  
Water and gas box for service-pipes. T. P. Fitzgerald. No. 911,485; Feb. 2; Sp. p. 868; Gaz. vol. 139; p. 153.  
Water and sewage through tunneled streets, System for conducting. J. J. Eagan. No. 908,980; Jan. 5; Sp. p. 1141; Gaz. vol. 138; p. 180.  
Water, &c., Apparatus for straining. M. V. Roberts. No. 913,768; Mar. 2; Sp. p. 192; Gaz. vol. 140; p. 32.  
Water, Attachment for regulating and indicating the temperature of running. C. E. and W. H. Krueger. No. 936,548; Oct. 12; Sp. p. 2010; Gaz. vol. 147; p. 331.  
Water-bag. D. Smith. No. 916,046; Mar. 23; Sp. p. 4894; Gaz. vol. 140; p. 867.  
Water-bag. F. A. Gordon. No. 941,245; Nov. 23; Sp. p. 6178; Gaz. vol. 148; p. 1036.  
Water-bag and syringe, Combined. W. G. Williams. No. 930,009; Aug. 3; Sp. p. 820; Gaz. vol. 145; p. 132.  
Water-closet. J. J. McGuire. No. 911,748; Feb. 9; Sp. p. 1431; Gaz. vol. 139; p. 266.  
Water-closet. E. G. Watrous. No. 914,539; Mar. 9; Sp. p. 1869; Gaz. vol. 140; p. 318.  
Water-closet. W. E. Gibson. No. 918,036; Apr. 13; Sp. p. 2195; Gaz. vol. 141; p. 394.  
Water-closet. A. M. Houser. No. 920,465; May 4; Sp. p. 752; Gaz. vol. 142; p. 121.  
Water-closet. N. Frost. No. 921,393; May 11; Sp. p. 2684; Gaz. vol. 142; p. 461.  
Water-closet. F. H. Henning. No. 924,988; June 15; Sp. p. 4069; Gaz. vol. 143; p. 692.  
Water-closet. P. J. Madden. No. 931,937; Aug. 24; Sp. p. 4916; Gaz. vol. 145; p. 844.  
Water-closet. P. J. Madden. No. 931,938; Aug. 24; Sp. p. 4920; Gaz. vol. 145; p. 844.  
Water-closet. A. Cochran. No. 934,422; Sept. 14; Sp. p. 2930; Gaz. vol. 146; p. 489.  
Water-closet. M. F. McElroy. No. 934,455; Sept. 21; Sp. p. 3003; Gaz. vol. 146; p. 523.  
Water-closet. H. W. Ward. No. 936,388; Oct. 12; Sp. p. 1645; Gaz. vol. 147; p. 279.  
Water-closet. J. C. Duner. No. 936,706; Oct. 12; Sp. p. 2329; Gaz. vol. 147; p. 386.  
Water-closet. H. S. Rumsey. No. 942,464; Dec. 7; Sp. p. 916; Gaz. vol. 149; p. 148.  
Water-closet and apparatus for flushing same. W. Wilson and L. Weigert-Sterne. No. 921,047; May 11; Sp. p. 1932; Gaz. vol. 142; p. 343.  
Water-closet and soil-pipe connection therefor. J. J. Cosgrove. No. 919,283; Apr. 20; Sp. p. 4971; Gaz. vol. 141; p. 833.  
Water-closet and tank. J. W. Sharp, Jr. No. 941,539; Nov. 30; Sp. p. 6817; Gaz. vol. 148; p. 1154.  
Water-closet automatic flush. L. M. Lancaster. No. 926,263; June 29; Sp. p. 6660; Gaz. vol. 143; p. 1176.  
Water-closet automatic flushing apparatus. W. H. Osborn. No. 914,068; Mar. 2; Sp. p. 887; Gaz. vol. 140; p. 138.  
Water-closet basins, Removable bidet for. D. M. Don Jian. No. 921,962; May 18; Sp. p. 3859; Gaz. vol. 142; p. 675.  
Water-closet bowl. A. P. Finkensieper. No. 927,783; July 13; Sp. p. 2246; Gaz. vol. 144; p. 388.  
Water-closet bowl. A. Plantier. No. 929,786; Aug. 3; Sp. p. 326; Gaz. vol. 145; p. 56.  
Water-closet cabinet for infants. G. Johnson. No. 915,442; Mar. 16; Sp. p. 3680; Gaz. vol. 140; p. 640.  
Water-closet cistern. C. H. Moore. No. 920,365; May 4; Sp. p. 558; Gaz. vol. 142; p. 89.  
Water-closet connection. E. L. Stallings. No. 927,611; July 13; Sp. p. 1878; Gaz. vol. 144; p. 332.  
Water-closet coupling. W. H. Foulois. No. 911,486; Feb. 2; Sp. p. 869; Gaz. vol. 139; p. 154.  
Water-closet coupling. H. S. Maddock. No. 936,919; Oct. 12; Sp. p. 2742; Gaz. vol. 147; p. 458.  
Water-closet-disinfecting devices, Valve for. J. Kneen. No. 939,424; Nov. 9; Sp. p. 2179; Gaz. vol. 148; p. 362.  
Water-closet-fastening device. J. F. Kelly. No. 928,523; July 20; Sp. p. 3783; Gaz. vol. 144; p. 664.



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- Water-closet floor-coupling. O. D. Wheeler. No. 938,533; Nov. 2; Sp. p. 214; Gaz. vol. 148; p. 30.  
 Water-closet flushing-tank. C. E. Thompson. No. 909,965; Jan. 19; Sp. p. 3101; Gaz. vol. 138; p. 573.  
 Water-closet flushing apparatus. W. U. Griffiths. No. 911,872; Feb. 9; Sp. p. 1654; Gaz. vol. 139; p. 306.  
 Water-closet flushing apparatus. W. H. Osborn. No. 914,067; Mar. 2; Sp. p. 885; Gaz. vol. 140; p. 138.  
 Water-closet flushing-valve. C. H. Phillips. No. 929,007; July 27; Sp. p. 4768; Gaz. vol. 144; p. 853.  
 Water-closet, Marine. G. A. Diem. No. 924,646; June 15; Sp. p. 3343; Gaz. vol. 143; p. 576.  
 Water-closet outlet connection. C. H. Moore. No. 938,777; Nov. 2; Sp. p. 698; Gaz. vol. 148; p. 112.  
 Water-closet outlet connection. C. H. Moore. No. 944,627; Dec. 28; Sp. p. 5603; Gaz. vol. 149; p. 972.  
 Water-closet, Sanitary. S. Smith. No. 932,822; Aug. 31; Sp. p. 6769; Gaz. vol. 145; p. 1160.  
 Water-closet, Sanitary. S. Smith. No. 932,823; Aug. 31; Sp. p. 6771; Gaz. vol. 145; p. 1161.  
 Water-closet, Sanitary. S. Smith. No. 932,824; Aug. 31; Sp. p. 6771; Gaz. vol. 145; p. 1161.  
 Water-closet sanitary seat. J. W. McAuliffe. No. 937,164; Oct. 19; Sp. p. 3252; Gaz. vol. 147; p. 568.  
 Water-closet seat. J. P. Cowan. No. 911,942; Feb. 9; Sp. p. 1792; Gaz. vol. 139; p. 330.  
 Water-closet seat. E. C. Stover. No. 912,754; Feb. 16; Sp. p. 3633; Gaz. vol. 139; p. 640.  
 Water-closet seat. J. Morrison. No. 920,608; May 4; Sp. p. 1040; Gaz. vol. 142; p. 169.  
 Water-closet seat. W. S. Emery. No. 923,039; May 25; Sp. p. 6061; Gaz. vol. 142; p. 1055.  
 Water-closet-seat attachment. G. K. Hashim. No. 937,525; Oct. 19; Sp. p. 4041; Gaz. vol. 147; p. 687.  
 Water-closet-seat hinge. J. C. Duner. No. 914,028; Mar. 2; Sp. p. 819; Gaz. vol. 140; p. 125.  
 Water-closet-seat protector. G. F. Thompson. No. 914,898; Mar. 9; Sp. p. 2607; Gaz. vol. 140; p. 436.  
 Water-closet seats, Sanitary protecting means for. G. McClory. No. 920,371; May 4; Sp. p. 572; Gaz. vol. 142; p. 92.  
 Water-closet stool. D. Craig. No. 940,435; Nov. 16; Sp. p. 4432; Gaz. vol. 148; p. 741.  
 Water-closet, &c., tank. G. H. Bailey. No. 940,951; Nov. 23; Sp. p. 5542; Gaz. vol. 148; p. 938.  
 Water-closet, &c., tank. G. H. Bailey. No. 940,952; Nov. 23; Sp. p. 5545; Gaz. vol. 148; p. 939.  
 Water-closet tank. G. H. Bailey. No. 944,764; Dec. 28; Sp. p. 5902; Gaz. vol. 149; p. 1017.  
 Water-closet-tank valve. J. F. Willis. No. 940,295; Nov. 16; Sp. p. 4093; Gaz. vol. 148; p. 693.  
 Water-closet valve device. P. J. Madden. No. 926,887; July 6; Sp. p. 379; Gaz. vol. 144; p. 61.  
 Water-closet valve for cars. C. W. Pearsall. No. 922,441; May 18; Sp. p. 4818; Gaz. vol. 142; p. 833.  
 Water-closet vent. H. P. Wallace. No. 917,385; Apr. 6; Sp. p. 866; Gaz. vol. 141; p. 149.  
 Water-closet, Ventilated. J. K. Pennington. No. 936,561; Oct. 12; Sp. p. 2034; Gaz. vol. 147; p. 335.  
 Water-closet, Ventilating. C. H. Thompson. No. 940,833; Nov. 23; Sp. p. 5302; Gaz. vol. 148; p. 899.  
 Water-closets, Coupling for the flushing-pipes of. H. Oldtmann. No. 919,935; Apr. 27; Sp. p. 6366; Gaz. vol. 141; p. 1088.  
 Water-closets, &c., Seat-cover for. C. G. Sutherland. No. 920,213; May 4; Sp. p. 246; Gaz. vol. 142; p. 39.  
 Water-closets with soil-pipes, Pipe for connecting. W. A. Fleming. No. 918,137; Apr. 13; Sp. p. 2394; Gaz. vol. 141; p. 429.  
 Water-coil. W. M. Taylor. No. 916,936; Mar. 30; Sp. p. 6626; Gaz. vol. 140; p. 1180.  
 Water-conductor. W. J. Minns. No. 915,459; Mar. 16; Sp. p. 3716; Gaz. vol. 140; p. 645.  
 Water-cooler. W. G. Eads. No. 928,908; July 20; Sp. p. 4568; Gaz. vol. 144; p. 795.  
 Water-cooler. A. N. Rose. No. 935,060; Sept. 28; Sp. p. 4193; Gaz. vol. 146; p. 751.  
 Water-cooling apparatus. J. B. Clanton. No. 911,207; Feb. 2; Sp. p. 362; Gaz. vol. 139; p. 63.  
 Water craft. J. S. Chase. No. 919,694; Apr. 27; Sp. p. 5872; Gaz. vol. 141; p. 1008.  
 Water-crane. R. A. Ogle. No. 913,909; Mar. 2; Sp. p. 513; Gaz. vol. 140; p. 83.  
 Water-curb-box lid. J. J. Heimbuecher. No. 943,407; Dec. 14; Sp. p. 2946; Gaz. vol. 149; p. 497.  
 Water-distilling apparatus. H. P. Snyder. No. 916,798; Mar. 30; Sp. p. 6342; Gaz. vol. 140; p. 1133.  
 Water-distributor. W. C. Johnson. No. 928,386; July 20; Sp. p. 3517; Gaz. vol. 144; p. 621.  
 Water electrolytically, Purifying. H. B. Hartman. No. 943,188; Dec. 14; Sp. p. 2486; Gaz. vol. 149; p. 422.  
 Water-elevating apparatus. J. S. Lawrence. No. 915,778; Mar. 23; Sp. p. 4400; Gaz. vol. 140; p. 781.  
 Water-elevating apparatus. O. A. Roed. No. 938,078; Oct. 26; Sp. p. 5188; Gaz. vol. 147; p. 888.  
 Water-elevator. H. Z. Hoylman. No. 924,071; June 8; Sp. p. 2108; Gaz. vol. 143; p. 351.  
 Water-elevator. J. L. O. King. No. 930,295; Aug. 3; Sp. p. 1363; Gaz. vol. 145; p. 226.  
 Water-elevator. R. J. Meyer. No. 932,628; Aug. 31; Sp. p. 6361; Gaz. vol. 145; p. 1097.  
 Water-elevator. A. W. Whitlock. No. 936,204; Oct. 5; Sp. p. 1256; Gaz. vol. 147; p. 190.  
 Water-elevator. J. Montgomery. No. 938,266; Oct. 26; Sp. p. 5579; Gaz. vol. 147; p. 954.  
 Water-elevator, Compressed-air. H. E. Chleborad. No. 935,742; Oct. 5; Sp. p. 250; Gaz. vol. 147; p. 40.  
 Water-filter. C. L. Gardiner. No. 913,636; Feb. 23; Sp. p. 5431; Gaz. vol. 139; p. 956.  
 Water for irrigation, System for the automatic control and distribution of. N. S. Twiford. No. 917,381; Apr. 6; Sp. p. 858; Gaz. vol. 141; p. 147.  
 Water-fountain. B. Kaminsky. No. 940,879; Nov. 23; Sp. p. 5393; Gaz. vol. 148; p. 914.  
 Water-gage. L. Kaplan. No. 916,166; Mar. 23; Sp. p. 5118; Gaz. vol. 140; p. 905.  
 Water-gage. H. R. Fay. No. 924,050; June 8; Sp. p. 2066; Gaz. vol. 143; p. 344.  
 Water-gage. J. Torok. No. 928,082; July 13; Sp. p. 2856; Gaz. vol. 144; p. 487.  
 Water-gage. C. Carlson. No. 928,304; July 20; Sp. p. 3371; Gaz. vol. 144; p. 593.  
 Water-gage. C. M. O'Daniels. No. 934,623; Sept. 21; Sp. p. 3332; Gaz. vol. 146; p. 580.  
 Water-gage. F. M. Ashley. No. 937,276; Oct. 19; Sp. p. 3495; Gaz. vol. 147; p. 604.  
 Water-gate. J. G. Gladding. No. 937,368; Oct. 19; Sp. p. 3674; Gaz. vol. 147; p. 633.  
 Water-gate. H. H. Vaage. No. 939,763; Nov. 9; Sp. p. 2918; Gaz. vol. 148; p. 479.  
 Water-gate. R. H. Buckner. No. 942,365; Dec. 7; Sp. p. 702; Gaz. vol. 149; p. 114.  
 Water-gate, Electric-alarm. G. C. Marsh. No. 912,970; Feb. 16; Sp. p. 4020; Gaz. vol. 139; p. 705.  
 Water-gate. J. H. Phipps. No. 942,460; Dec. 7; Sp. p. 910; Gaz. vol. 149; p. 146.  
 Water-glass. W. E. White and L. K. Hof. No. 922,829; May 25; Sp. p. 5636; Gaz. vol. 142; p. 967.  
 Water-glass and gage-cock fountain. J. L. Vaughan. No. 911,786; Feb. 9; Sp. p. 1493; Gaz. vol. 139; p. 279.  
 Water-glass guard and lamp, Combination. C. A. Pratte and O. A. Alexander. No. 921,562; May 11; Sp. p. 3007; Gaz. vol. 142; p. 516.  
 Water-heater. E. H. Steele. No. 908,512; Jan. 5; Sp. p. 160; Gaz. vol. 138; p. 29.  
 Water-heater. L. C. Lewis. No. 910,138; Jan. 19; Sp. p. 3431; Gaz. vol. 138; p. 628.  
 Water-heater. W. B. Swindell and C. H. Holloway. No. 911,087; Feb. 2; Sp. p. 124; Gaz. vol. 139; p. 23.  
 Water-heater. B. Gerdelman. No. 913,375; Feb. 23; Sp. p. 4848; Gaz. vol. 139; p. 869.  
 Water-heater. L. Stockstrom. No. 914,200; Mar. 2; Sp. p. 1169; Gaz. vol. 140; p. 183.  
 Water-heater. D. N. Gibson. No. 916,297; Mar. 23; Sp. p. 5349; Gaz. vol. 140; p. 948.  
 Water-heater. M. Greenberg. No. 918,038; Apr. 13; Sp. p. 2197; Gaz. vol. 141; p. 394.  
 Water-heater. T. E. Durban. No. 918,517; Apr. 20; Sp. p. 3171; Gaz. vol. 141; p. 581.  
 Water-heater. O. C. Syvertsen. No. 920,687; May 4; Sp. p. 1214; Gaz. vol. 142; p. 196.  
 Water-heater. F. C. Damm. No. 921,088; May 11; Sp. p. 2030; Gaz. vol. 142; p. 357.  
 Water-heater. H. W. Carter. No. 921,359; May 11; Sp. p. 2613; Gaz. vol. 142; p. 450.  
 Water-heater. W. A. Pratt. No. 924,105; June 8; Sp. p. 2164; Gaz. vol. 143; p. 361.  
 Water-heater. E. A. Peterson. No. 925,501; June 22; Sp. p. 5038; Gaz. vol. 143; p. 888.  
 Water-heater. D. W. Cunningham. No. 927,494; July 13; Sp. p. 1621; Gaz. vol. 144; p. 291.  
 Water-heater. A. F. Moneuse. No. 928,063; July 13; Sp. p. 2826; Gaz. vol. 144; p. 481.  
 Water-heater. F. A. Knapp. No. 928,261; July 20; Sp. p. 3257; Gaz. vol. 144; p. 578.  
 Water-heater. H. S. Humphrey. No. 928,310; July 20; Sp. p. 3381; Gaz. vol. 144; p. 595.  
 Water-heater. H. S. Humphrey. No. 928,311; July 20; Sp. p. 3391; Gaz. vol. 144; p. 596.  
 Water-heater. J. W. Ellebrecht. No. 928,859; July 20; Sp. p. 4452; Gaz. vol. 144; p. 777.  
 Water-heater. G. V. Andrews. No. 933,736; Sept. 14; Sp. p. 1601; Gaz. vol. 146; p. 263.  
 Water-heater. F. W. Robertshaw. No. 935,408; Sept. 23; Sp. p. 4888; Gaz. vol. 146; p. 864.  
 Water-heater. W. E. Morrow. No. 936,014; Oct. 5; Sp. p. 875; Gaz. vol. 147; p. 132.  
 Water-heater. D. W. Allman. No. 938,623; Nov. 2; Sp. p. 400; Gaz. vol. 148; p. 60.  
 Water-heater. D. Hanlon. No. 940,685; Nov. 23; Sp. p. 4974; Gaz. vol. 148; p. 849.  
 Water-heater. G. C. Madsen. No. 940,980; Nov. 23; Sp. p. 5595; Gaz. vol. 148; p. 947.  
 Water-heater. G. H. Wade. No. 941,215; Nov. 23; Sp. p. 6124; Gaz. vol. 148; p. 1027.  
 Water-heater. H. R. Churchill. No. 941,618; Nov. 30; Sp. p. 6971; Gaz. vol. 148; p. 1179.  
 Water-heater. B. B. Kinkade. No. 941,882; Nov. 30; Sp. p. 7554; Gaz. vol. 148; p. 1271.  
 Water heater and purifier. A. W. Fredrickson. No. 929,574; July 27; Sp. p. 5916; Gaz. vol. 144; p. 1040.  
 Water-heater, Automatic. R. Hoffman. No. 928,757; July 20; Sp. p. 4263; Gaz. vol. 144; p. 743.  
 Water-heater, Electric. W. E. Hayes. No. 926,185; June 29; Sp. p. 6505; Gaz. vol. 143; p. 1151.  
 Water-heater, Electric. H. W. Denhard. No. 927,027; July 6; Sp. p. 679; Gaz. vol. 144; p. 109.



*Alphabetical list of inventions—Continued.*

- Water-heater, Electric. P. P. Meyers. No. 939,054; Nov. 2; Sp. p. 1292; Gaz. vol. 148; p. 208.  
 Water-heater, Electric. H. G. Levy and G. N. Blanchard. No. 939,605; Nov. 9; Sp. p. 2573; Gaz. vol. 148; p. 422.  
 Water-heater, Electrical. D. B. Rawson. No. 922,333; May 18; Sp. p. 4586; Gaz. vol. 142; p. 796.  
 Water-heater, Electrically-operated. J. A. Hunnewell. No. 938,237; Oct. 26; Sp. p. 5525; Gaz. vol. 147; p. 944.  
 Water-heater, Instantaneous. C. E. Duryea. No. 940,240; Nov. 16; Sp. p. 3965; Gaz. vol. 148; p. 675.  
 Water-heater, Portable. S. M. Dick. No. 914,393; Mar. 9; Sp. p. 1582; Gaz. vol. 140; p. 269.  
 Water-heater, Solar. P. T. Glass. No. 921,976; May 18; Sp. p. 3887; Gaz. vol. 142; p. 680.  
 Water-heating apparatus. A. C. Dunham. No. 937,776; Oct. 26; Sp. p. 4548; Gaz. vol. 147; p. 788.  
 Water-heating apparatus. A. C. Dunham. No. 937,777; Oct. 26; Sp. p. 4550; Gaz. vol. 147; p. 788.  
 Water-heating appliance. W. G. Wise. No. 935,876; Oct. 5; Sp. p. 597; Gaz. vol. 147; p. 86.  
 Water-heating system. B. B. Kinkade. No. 941,784; Nov. 30; Sp. p. 7338; Gaz. vol. 148; p. 1237.  
 Water-hydrant. G. Payne and J. Ross. No. 909,327; Jan. 12; Sp. p. 1825; Gaz. vol. 138; p. 327.  
 Water in baths, Device for agitating. H. Hoeglauer. No. 916,152; Mar. 23; Sp. p. 5092; Gaz. vol. 140; p. 901.  
 Water into the cylinders of compressors, Means for injecting. A. E. Jones. No. 913,661; Feb. 23; Sp. p. 5471; Gaz. vol. 139; p. 963.  
 Water-jacket. C. W. Hawkes. No. 908,566; Jan. 5; Sp. p. 281; Gaz. vol. 138; p. 47.  
 Water-jacket. C. W. Hawkes. No. 908,567; Jan. 5; Sp. p. 283; Gaz. vol. 138; p. 47.  
 Water-jacket. C. W. Hawkes. No. 918,047; Apr. 13; Sp. p. 2210; Gaz. vol. 141; p. 398.  
 Water-jacket. C. W. Hawkes. No. 921,542; May 11; Sp. p. 2969; Gaz. vol. 142; p. 510.  
 Water-jet apparatus. E. Koerting. No. 929,674; Aug. 3; Sp. p. 60; Gaz. vol. 145; p. 13.  
 Water-jig. G. Caetani. No. 923,328; June 1; Sp. p. 509; Gaz. vol. 143; p. 72.  
 Water-lift. F. O. De Hymel. No. 933,894; Sept. 14; Sp. p. 1900; Gaz. vol. 146; p. 313.  
 Water, Means for the purification of. D. L. V. Browne. No. 910,495; Jan. 26; Sp. p. 4233; Gaz. vol. 138; p. 778.  
 Water-meter. A. H. and C. H. Kennedy. No. 912,383; Feb. 16; Sp. p. 2801; Gaz. vol. 139; p. 511.  
 Water-meter. M. Miller. No. 914,440; Mar. 9; Sp. p. 1665; Gaz. vol. 140; p. 285.  
 Water-meter. C. and C. A. Lory. No. 918,176; Apr. 13; Sp. p. 2458; Gaz. vol. 141; p. 440.  
 Water-meter. P. A. McGurrin. No. 923,992; June 8; Sp. p. 1970; Gaz. vol. 143; p. 327.  
 Water-meter. W. H. Sitts. No. 932,502; Aug. 31; Sp. p. 6078; Gaz. vol. 145; p. 1054.  
 Water-meter. H. I. Ditts. No. 941,563; Nov. 30; Sp. p. 6860; Gaz. vol. 148; p. 1162.  
 Water-meter, Self-registering. F. W. Hanna. No. 938,850; Nov. 2; Sp. p. 855; Gaz. vol. 148; p. 137.  
 Water-motor. A. G. Baum. No. 911,697; Feb. 9; Sp. p. 1344; Gaz. vol. 139; p. 250.  
 Water-motor. A. E. Miller, M. Huggins, and C. E. Jenkins. No. 917,092; Apr. 6; Sp. p. 268; Gaz. vol. 141; p. 49.  
 Water-motor. W. C. White. No. 917,917; Apr. 13; Sp. p. 1934; Gaz. vol. 141; p. 350.  
 Water-motor. W. J. White. No. 924,300; June 8; Sp. p. 2635; Gaz. vol. 143; p. 429.  
 Water-motor. F. W. Mackey. No. 924,808; June 15; Sp. p. 3682; Gaz. vol. 143; p. 631.  
 Water-motor. H. C. Davidson. No. 926,644; June 29; Sp. p. 7368; Gaz. vol. 143; p. 1300.  
 Water-motor. L. C. Lewis. No. 927,560; July 13; Sp. p. 1751; Gaz. vol. 144; p. 313.  
 Water-motor. F. W. Johnson. No. 931,875; Aug. 24; Sp. p. 4762; Gaz. vol. 145; p. 823.  
 Water-motor. W. C. Fawkes. No. 937,060; Oct. 19; Sp. p. 3032; Gaz. vol. 147; p. 532.  
 Water-motor. C. J. Duncan. No. 938,989; Nov. 2; Sp. p. 1169; Gaz. vol. 148; p. 186.  
 Water-motor. J. Hubmann. No. 939,506; Nov. 9; Sp. p. 2342; Gaz. vol. 148; p. 389.  
 Water-motor. W. J. White. No. 943,501; Dec. 14; Sp. p. 3145; Gaz. vol. 149; p. 530.  
 Water-motor. W. G. Stowell. No. 944,221; Dec. 21; Sp. p. 4679; Gaz. vol. 149; p. 802.  
 Water-motor, Impact. R. M. Doble. No. 924,150; June 8; Sp. p. 2292; Gaz. vol. 143; p. 377.  
 Water-of-condensation-cleaning apparatus. B. E. Van Auker. No. 909,484; Jan. 12; Sp. p. 2126; Gaz. vol. 138; p. 377.  
 Water-pipe. W. H. Bright. No. 926,082; June 29; Sp. p. 6295; Gaz. vol. 143; p. 1118.  
 Water-power-applying apparatus. F. T. Newbery. No. 941,090; Nov. 23; Sp. p. 5834; Gaz. vol. 148; p. 984.  
 Water-power gathering, developing, and manufacturing device. S. S. Leach. No. 918,173; Apr. 13; Sp. p. 2454; Gaz. vol. 141; p. 440.  
 Water-power machine. T. J. Vanderslice. No. 921,637; May 11; Sp. p. 3176; Gaz. vol. 142; p. 543.  
 Water-power wheel. J. W. Atkinson. No. 921,940; May 18; Sp. p. 3801; Gaz. vol. 142; p. 668.  
 Water purification and clarification. W. McMurtree. No. 913,034; Feb. 23; Sp. p. 4144; Gaz. vol. 139; p. 753.  
 Water-purification system. J. F. Wixford. No. 917,918; Apr. 13; Sp. p. 1936; Gaz. vol. 141; p. 351.  
 Water-purifier. H. G. Dittbenner. No. 917,933; Apr. 13; Sp. p. 1961; Gaz. vol. 141; p. 356.  
 Water-purifier. J. W. Morrison. No. 938,778; Nov. 2; Sp. p. 700; Gaz. vol. 148; p. 113.  
 Water-purifier, Electric. M. R. Frei. No. 936,993; Oct. 12; Sp. p. 2875; Gaz. vol. 147; p. 480.  
 Water, Purifying. H. Korten. No. 913,827; Mar. 2; Sp. p. 303; Gaz. vol. 140; p. 53.  
 Water, Purifying. C. W. Schultze. No. 914,887; Mar. 9; Sp. p. 2591; Gaz. vol. 140; p. 432.  
 Water, Purifying. W. B. Bull. No. 935,637; Oct. 5; Sp. p. 20; Gaz. vol. 147; p. 5.  
 Water, Purifying. J. W. Morrison. No. 938,779; Nov. 2; Sp. p. 702; Gaz. vol. 148; p. 113.  
 Water-purifying apparatus. M. F. Newman. No. 922,025; May 18; Sp. p. 3988; Gaz. vol. 142; p. 697.  
 Water-purifying apparatus. M. Miller. No. 927,267; July 6; Sp. p. 1164; Gaz. vol. 144; p. 190.  
 Water-purifying apparatus. G. Pfeiffer, Jr. No. 927,278; July 6; Sp. p. 1182; Gaz. vol. 144; p. 194.  
 Water-purifying apparatus. J. C. W. Greth. No. 935,303; Sept. 28; Sp. p. 4677; Gaz. vol. 146; p. 830.  
 Water-purifying apparatus. H. Reisert. No. 938,075; Oct. 26; Sp. p. 5182; Gaz. vol. 147; p. 887.  
 Water-purifying apparatus, Electrolytic. H. B. Hartman. No. 943,187; Dec. 14; Sp. p. 2482; Gaz. vol. 149; p. 421.  
 Water-purifying apparatus, Feeding device for. D. W. Patterson. No. 940,402; Nov. 16; Sp. p. 4388; Gaz. vol. 148; p. 731.  
 Water-purifying compound. C. W. Schultze. No. 935,695; Oct. 5; Sp. p. 158; Gaz. vol. 147; p. 65.  
 Water purifying or softening system. C. S. Robison. No. 917,139; Apr. 6; Sp. p. 374; Gaz. vol. 141; p. 65.  
 Water-softener. J. E. Bain and B. W. Smith. No. 933,047; Sept. 7; Sp. p. 6; Gaz. vol. 146; p. 4.  
 Water softening and purifying apparatus. H. H. Sutro and L. M. Booth. No. 910,327; Jan. 19; Sp. p. 3878; Gaz. vol. 138; p. 698.  
 Water-softening apparatus. W. M. Bruce. No. 912,802; Feb. 16; Sp. p. 3723; Gaz. vol. 139; p. 655.  
 Water-softening apparatus. W. M. Bruce. No. 912,803; Feb. 16; Sp. p. 3727; Gaz. vol. 139; p. 655.  
 Water-supply apparatus. T. Smith. No. 923,905; June 8; Sp. p. 1800; Gaz. vol. 143; p. 299.  
 Water-supply system. R. H. Nelson. No. 920,774; May 4; Sp. p. 1371; Gaz. vol. 142; p. 222.  
 Water supplying and distributing system, Drinking-. G. Fleming. No. 920,559; May 4; Sp. p. 947; Gaz. vol. 142; p. 155.  
 Water-supplying system, Drinking-. G. Fleming. No. 920,558; May 4; Sp. p. 944; Gaz. vol. 142; p. 155.  
 Water-switch. W. B. Sturgis. No. 925,053; June 15; Sp. p. 4193; Gaz. vol. 143; p. 714.  
 Water-tank, Return. P. J. Grahn. No. 914,138; Mar. 2; Sp. p. 1036; Gaz. vol. 140; p. 163.  
 Water through a water system, Means for preventing the flow of. R. G. Lindenberger. No. 922,300; May 18; Sp. p. 4525; Gaz. vol. 142; p. 786.  
 Water-trap. R. Fock. No. 921,688; May 18; Sp. p. 3300; Gaz. vol. 142; p. 587.  
 Water trap or strainer. F. A. Lewis. No. 916,340; Mar. 23; Sp. p. 5426; Gaz. vol. 140; p. 964.  
 Water-tube boiler. C. S. Hooper. No. 920,139; May 4; Sp. p. 98; Gaz. vol. 142; p. 14.  
 Water-tube boiler. C. S. Hooper. No. 920,140; May 4; Sp. p. 99; Gaz. vol. 142; p. 14.  
 Water-tube boiler. P. Trainor. No. 921,313; May 11; Sp. p. 2495; Gaz. vol. 142; p. 433.  
 Water-tube boiler. J. E. Bell. No. 935,884; Oct. 5; Sp. p. 614; Gaz. vol. 147; p. 88.  
 Water-tube boiler. R. Hutchison. No. 936,723; Oct. 12; Sp. p. 2361; Gaz. vol. 147; p. 392.  
 Water-tube boiler. H. F. Ely. No. 937,782; Oct. 26; Sp. p. 4562; Gaz. vol. 147; p. 790.  
 Water-tube boiler. G. Kingsley. No. 939,031; Nov. 2; Sp. p. 1253; Gaz. vol. 148; p. 201.  
 Water-tube boiler. J. P. Sneddon. No. 941,820; Nov. 30; Sp. p. 7429; Gaz. vol. 148; p. 1249.  
 Water-tube boiler. J. P. Sneddon. No. 942,797; Dec. 7; Sp. p. 1573; Gaz. vol. 149; p. 259.  
 Water-tube boiler. E. W. Clark. No. 943,139; Dec. 14; Sp. p. 2396; Gaz. vol. 149; p. 408.  
 Water-tube boiler, Sectional. T. Gowen. No. 923,510; June 1; Sp. p. 886; Gaz. vol. 143; p. 135.  
 Water-tube boiler, Vertical. E. C. Fisher. No. 933,541; Sept. 7; Sp. p. 1195; Gaz. vol. 146; p. 174.  
 Water-waste preventer. F. J. Morgan. No. 909,638; Jan. 12; Sp. p. 2430; Gaz. vol. 138; p. 431.  
 Water-wheel. F. Trump. No. 917,192; Apr. 6; Sp. p. 470; Gaz. vol. 141; p. 82.  
 Water-wheel. C. C. Wais. No. 937,491; Oct. 19; Sp. p. 3971; Gaz. vol. 147; p. 674.  
 Water-wheel. D. D. Dennis. No. 940,677; Nov. 23; Sp. p. 4960; Gaz. vol. 148; p. 846.  
 Water-wheel. W. Van Scoter. No. 941,474; Nov. 30; Sp. p. 6688; Gaz. vol. 148; p. 1133.  
 Water-wheel. J. L. Beil. No. 942,811; Dec. 7; Sp. p. 1599; Gaz. vol. 149; p. 263.  
 Water-wheel-bucket attachment. W. R. Eckart. No. 924,544; June 8; Sp. p. 3120; Gaz. vol. 143; p. 509.  
 Water-wheel gate-controlling mechanism. A. Reid. No. 925,839; June 22; Sp. p. 5777; Gaz. vol. 143; p. 1000.  
 Water-wheels, Deflector-hood control for tangential. R. M. Doble and A. Rosenthal. No. 929,198; July 27; Sp. p. 5174; Gaz. vol. 144; p. 917.

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- Waterer, Stock-. P. Bernard. No. 925,984; June 22; Sp. p. 6056; Gaz. vol. 143; p. 1048.
- Watering device, Stock-. G. E. Odell. No. 922,943; May 25; Sp. p. 5883; Gaz. vol. 142; p. 1025.
- Watering device, Stock-. J. Roach. No. 929,883; Aug. 3; Sp. p. 559; Gaz. vol. 145; p. 89.
- Watering-tank. A. N. Eaton. No. 933,066; Sept. 7; Sp. p. 59; Gaz. vol. 140; p. 10.
- Watering tank, Live-stock-. C. W. Glandt. No. 917,427; Apr. 6; Sp. p. 933; Gaz. vol. 141; p. 163.
- Watering tank, Stock-. A. N. Eaton. No. 922,681; May 25; Sp. p. 5316; Gaz. vol. 142; p. 939.
- Watering-trough. A. G. Simmons. No. 920,781; May 4; Sp. p. 1392; Gaz. vol. 142; p. 225.
- Waterproof articles from fibrous materials, Manufacture of. I. L. Roberts. No. 921,001; May 11; Sp. p. 1847; Gaz. vol. 142; p. 328.
- Waterproof material. J. Glassford. No. 921,538; May 11; Sp. p. 2959; Gaz. vol. 142; p. 509.
- Waterproofing composition. L. A. Coleman. No. 944,233; Dec. 21; Sp. p. 4702; Gaz. vol. 149; p. 806.
- Waterproofing fibrous materials. A. O. Tate. No. 933,861; Sept. 14; Sp. p. 1837; Gaz. vol. 146; p. 303.
- Waterproofing preservative dressing. J. H. Hoelscher. No. 923,176; June 1; Sp. p. 124; Gaz. vol. 143; p. 20.
- Wattmeter, Integrating-. B. E. Getchell and O. O. Smith. No. 911,036; Feb. 2; Sp. p. 24; Gaz. vol. 139; p. 7.
- Wattmeters, Operating alternating-current mercury. R. C. Lanphier. No. 927,733; July 13; Sp. p. 2138; Gaz. vol. 144; p. 371.
- Wave and gravity motor. A. T. Ransom. No. 929,982; Aug. 3; Sp. p. 763; Gaz. vol. 145; p. 122.
- Wave and tide motor. E. T. Odum. No. 917,647; Apr. 6; Sp. p. 1334; Gaz. vol. 141; p. 235.
- Wave-breaker. J. A. Rosvold. (Reissue.) No. 13,056; Dec. 14; Sp. p. 3489; Gaz. vol. 149; p. 580.
- Wave meter, Hertzian-. C. D. Babcock. No. 918,256; Apr. 13; Sp. p. 2641; Gaz. vol. 141; p. 468.
- Wave-motor. C. A. Burrows. No. 913,467; Feb. 23; Sp. p. 5032; Gaz. vol. 139; p. 899.
- Wave-motor. J. J. Pompa. No. 913,561; Feb. 23; Sp. p. 5259; Gaz. vol. 139; p. 931.
- Wave-motor. D. B. Rockwell, Jr. No. 913,770; Mar. 2; Sp. p. 198; Gaz. vol. 140; p. 33.
- Wave-motor. T. J. Beaudette. No. 915,153; Mar. 16; Sp. p. 3109; Gaz. vol. 140; p. 545.
- Wave-motor. G. C. Hale. No. 916,860; Mar. 30; Sp. p. 6460; Gaz. vol. 140; p. 1154.
- Wave-motor. S. L. Casella and P. M. Reynolds. No. 917,411; Apr. 6; Sp. p. 912; Gaz. vol. 141; p. 158.
- Wave-motor. H. J. Lawrence. No. 918,870; Apr. 20; Sp. p. 3979; Gaz. vol. 141; p. 699.
- Wave-motor. D. K. Bryson. No. 918,956; Apr. 20; Sp. p. 4169; Gaz. vol. 141; p. 729.
- Wave-motor. A. T. Newman. No. 919,928; Apr. 27; Sp. p. 6354; Gaz. vol. 141; p. 1086.
- Wave-motor. C. E. Edwards. No. 923,823; June 8; Sp. p. 1643; Gaz. vol. 143; p. 272.
- Wave-motor. W. H. Dally. No. 930,536; Aug. 10; Sp. p. 1884; Gaz. vol. 145; p. 332.
- Wave-motor. C. W. Hicks. No. 932,278; Aug. 24; Sp. p. 5615; Gaz. vol. 145; p. 958.
- Wave-motor. J. D. McFarland, Jr. No. 937,712; Oct. 19; Sp. p. 4402; Gaz. vol. 147; p. 748.
- Wave-motor. J. L. Matthews. No. 938,681; Nov. 2; Sp. p. 524; Gaz. vol. 148; p. 80.
- Wave-power. L. Wolfley. No. 910,439; Jan. 19; Sp. p. 4101; Gaz. vol. 138; p. 735.
- Wax-extracting apparatus. E. C. Smith and A. Waterhouse. No. 922,637; May 25; Sp. p. 5234; Gaz. vol. 142; p. 926.
- Wax-extracting apparatus. E. Köpke. No. 931,878; Aug. 24; Sp. p. 4766; Gaz. vol. 145; p. 824.
- Wax-extractor. J. Y. Peterson. No. 914,874; Mar. 9; Sp. p. 2567; Gaz. vol. 140; p. 428.
- Wax-gathering device, Rod-. D. L. Heeter. No. 913,286; Feb. 23; Sp. p. 4664; Gaz. vol. 139; p. 837.
- Waxing and scouring pad. G. B. Watson. No. 926,789; July 6; Sp. p. 162; Gaz. vol. 144; p. 27.
- Waxing-pad. L. C. Hartsock. No. 932,388; Aug. 24; Sp. p. 5813; Gaz. vol. 145; p. 993.
- Waxing-pad and iron-holder, Combined. V. F. Good. No. 920,049; Apr. 27; Sp. p. 6614; Gaz. vol. 141; p. 1125.
- Way-bill. F. H. Crump. No. 925,871; June 22; Sp. p. 5845; Gaz. vol. 143; p. 1010.
- Weaner, Calf-. W. Mann. No. 927,258; July 6; Sp. p. 1150; Gaz. vol. 144; p. 187.
- Weaner, Calf-. F. M. Tatman. No. 928,080; July 13; Sp. p. 2854; Gaz. vol. 144; p. 487.
- Weaner, Calf-. H. Beck. No. 929,376; July 27; Sp. p. 5578; Gaz. vol. 144; p. 978.
- Weaner, Calf-. L. Goetschel. No. 930,470; Aug. 10; Sp. p. 1706; Gaz. vol. 145; p. 308.
- Weaner, Cow-. C. E. Ballard. No. 934,651; Sept. 21; Sp. p. 3385; Gaz. vol. 146; p. 590.
- Weather-boarding. Forming. A. Urquhart. No. 925,401; June 15; Sp. p. 4831; Gaz. vol. 143; p. 826.
- Weather-strip. G. Gallup. No. 909,996; Jan. 19; Sp. p. 3157; Gaz. vol. 138; p. 583.
- Weather-strip. J. Kammerer. No. 915,445; Mar. 16; Sp. p. 3683; Gaz. vol. 140; p. 641.
- Weather-strip. A. Fenner. No. 918,836; Apr. 20; Sp. p. 3900; Gaz. vol. 141; p. 687.
- Weather-strip. J. L. Porter. No. 921,159; May 11; Sp. p. 2162; Gaz. vol. 142; p. 381.
- Weather-strip. C. B. Ford. No. 922,873; May 25; Sp. p. 5749; Gaz. vol. 142; p. 1002.
- Weather-strip. S. F. Haskell. No. 926,409; June 29; Sp. p. 6935; Gaz. vol. 143; p. 1222.
- Weather-strip. A. Bujewski. No. 926,543; June 29; Sp. p. 7172; Gaz. vol. 143; p. 1267.
- Weather-strip. C. H. Tibbitts. No. 927,900; July 13; Sp. p. 2503; Gaz. vol. 144; p. 427.
- Weather-strip. C. A. Blohm and C. H. Chamberlin. No. 934,709; Sept. 21; Sp. p. 3495; Gaz. vol. 146; p. 608.
- Weather-strip. W. Steger. No. 937,193; Oct. 19; Sp. p. 3315; Gaz. vol. 147; p. 576.
- Weather-strip. W. C. F. Beale. No. 938,107; Oct. 26; Sp. p. 5237; Gaz. vol. 147; p. 898.
- Weather-strip. J. E. Ledtermann. No. 944,042; Dec. 21; Sp. p. 4324; Gaz. vol. 149; p. 745.
- Weather-strip for doors. B. E. Cox. No. 924,434; June 8; Sp. p. 2888; Gaz. vol. 143; p. 472.
- Weather-strip for metal frames and sash. J. M. Powers and J. L. Boyd. No. 918,591; Apr. 20; Sp. p. 3327; Gaz. vol. 141; p. 605.
- Weather-strip for windows. J. E. Williams. No. 919,509; Apr. 27; Sp. p. 5496; Gaz. vol. 141; p. 944.
- Weather-strip, Metal. P. L. Hedberg. No. 928,194; July 13; Sp. p. 3086; Gaz. vol. 144; p. 525.
- Weather-strip, Movable. J. and J. Hemmerling. No. 944,093; Dec. 21; Sp. p. 4423; Gaz. vol. 149; p. 762.
- Weather-strip, Window. H. Higgin. No. 934,609; Sept. 21; Sp. p. 3295; Gaz. vol. 146; p. 176.
- Weatherproof composition. H. Gallinowsky. No. 933,171; Sept. 7; Sp. p. 284; Gaz. vol. 146; p. 47.
- Weaving. B. F. McGuiness. No. 938,502; Nov. 2; Sp. p. 121; Gaz. vol. 148; p. 19.
- Weaving apparatus, Veneer-strip-. H. E. Hull. No. 937,608; Oct. 19; Sp. p. 4192; Gaz. vol. 147; p. 714.
- Weaving cut-pile carpets, Jacquard mechanism for. J. R. Baker and T. Chamberlain. No. 919,414; Apr. 27; Sp. p. 5267; Gaz. vol. 141; p. 912.
- Weaving-machine. E. Reuter. No. 927,752; July 13; Sp. p. 2181; Gaz. vol. 144; p. 378.
- Web-coating machine. W. A. Daniels. No. 939,396; Nov. 9; Sp. p. 2115; Gaz. vol. 148; p. 353.
- Web-folding mechanism. E. Klein. No. 940,933; Nov. 23; Sp. p. 5501; Gaz. vol. 148; p. 932.
- Web material, Feeding. C. B. Stilwell. No. 912,330; Feb. 16; Sp. p. 2701; Gaz. vol. 139; p. 493.
- Wedge, Ax and tool handle. G. P. Morrill. No. 928,322; July 20; Sp. p. 3407; Gaz. vol. 144; p. 599.
- Wedge-blocks and doyle-pins, Apparatus for cutting. S. Smith. No. 936,744; Oct. 12; Sp. p. 2398; Gaz. vol. 147; p. 399.
- Wedge-forming machine. W. W. Krutsch. No. 919,032; Apr. 20; Sp. p. 4308; Gaz. vol. 141; p. 753.
- Wedge-stripping machine. G. B. Grover. No. 920,456; May 4; Sp. p. 738; Gaz. vol. 142; p. 118.
- Wedges, Manufacturing compound tapered. C. E. Sweet. No. 940,949; Nov. 23; Sp. p. 5115; Gaz. vol. 148; p. 871.
- Weed-cutter. J. J. Smith. No. 924,392; June 8; Sp. p. 2821; Gaz. vol. 143; p. 459.
- Weed-cutter and cultivator. M. Pruyn. No. 942,744; Dec. 7; Sp. p. 1474; Gaz. vol. 149; p. 241.
- Weed destroyer and gatherer. B. Pomije. No. 924,498; June 8; Sp. p. 3019; Gaz. vol. 143; p. 493.
- Weed-digger. R. R. Damoude. No. 943,817; Dec. 21; Sp. p. 3839; Gaz. vol. 149; p. 667.
- Weed-eradicating means. B. F. and J. A. Scott. No. 943,475; Dec. 14; Sp. p. 3096; Gaz. vol. 149; p. 521.
- Weed-exterminator. E. E. Jackson. No. 919,017; Apr. 20; Sp. p. 4277; Gaz. vol. 141; p. 748.
- Weed-exterminator. E. A. Francis. No. 944,083; Dec. 21; Sp. p. 4408; Gaz. vol. 149; p. 759.
- Weed-exterminator and cultivator. A. I. Jones. No. 918,677; Apr. 20; Sp. p. 3570; Gaz. vol. 141; p. 634.
- Weed-folder. C. F. Moore. No. 921,266; May 11; Sp. p. 2390; Gaz. vol. 142; p. 419.
- Weed-puller and tree-trimmer. A. N. Moline. No. 913,225; Feb. 23; Sp. p. 4547; Gaz. vol. 139; p. 817.
- Weeder. A. Barkley. No. 914,227; Mar. 2; Sp. p. 1221; Gaz. vol. 140; p. 191.
- Weeder. C. F. Billau. No. 933,227; Sept. 7; Sp. p. 447; Gaz. vol. 146; p. 69.
- Weeder. G. Greene. No. 938,759; Nov. 2; Sp. p. 666; Gaz. vol. 148; p. 106.
- Weeder. F. M. Newland. No. 941,091; Nov. 23; Sp. p. 5835; Gaz. vol. 148; p. 985.
- Weeding and transplanting implement, Hand. H. L. Hughes. No. 933,304; Sept. 7; Sp. p. 616; Gaz. vol. 146; p. 95.
- Weeding device. B. F. Paxton. No. 909,018; Jan. 5; Sp. p. 1204; Gaz. vol. 138; p. 192.
- Weevils, Machine to destroy cotton-boll. F. H. Lathrop. No. 938,592; Nov. 2; Sp. p. 341; Gaz. vol. 148; p. 51.
- Weigher, Automatic grain-. A. G. Yerik. No. 936,593; Oct. 12; Sp. p. 2091; Gaz. vol. 147; p. 348.
- Weigher, Automatic grain-. L. S. Godfrey. No. 941,633; Nov. 30; Sp. p. 7003; Gaz. vol. 148; p. 1185.
- Weigher, Liquid-. E. F. Shue. No. 939,103; Nov. 2; Sp. p. 1383; Gaz. vol. 148; p. 225.
- Weighing and vending apparatus. A. Heimann and L. Flatow. No. 918,549; Apr. 20; Sp. p. 3242; Gaz. vol. 141; p. 591.
- Weighing and vending machine, Coin-actuated. F. R. Chase. No. 923,245; June 1; Sp. p. 260; Gaz. vol. 143; p. 43.
- Weighing apparatus. A. Bradford. No. 923,240; June 1; Sp. p. 245; Gaz. vol. 143; p. 41.



*Alphabetical list of inventions—Continued.*

- Weighing apparatus. A. Bradford. No. 925,282; June 15; Sp. p. 4616; Gaz. vol. 143; p. 789.
- Weighing apparatus. J. Reuther and L. Schulz. No. 931,800; Aug. 24; Sp. p. 4612; Gaz. vol. 145; p. 800.
- Weighing apparatus, Automatic. C. W. Meyer. No. 917,882; Apr. 13; Sp. p. 1853; Gaz. vol. 141; p. 33.
- Weighing apparatus, Automatic. C. D. Scott. No. 921,170; May 11; Sp. p. 2189; Gaz. vol. 142; p. 386.
- Weighing apparatus, Automatic. W. E. Nickerson. No. 936,557; Oct. 12; Sp. p. 2023; Gaz. vol. 147; p. 334.
- Weighing apparatus, Automatic. A. Sonander. No. 942,942; Dec. 14; Sp. p. 1952; Gaz. vol. 149; p. 340.
- Weighing apparatus for liquids, Automatic. J. P. Baldwin. No. 924,220; June 8; Sp. p. 2473; Gaz. vol. 143; p. 401.
- Weighing apparatus, Liquid-. O. Meswark. No. 919,050; Apr. 20; Sp. p. 4341; Gaz. vol. 141; p. 758.
- Weighing device. Q. B. Wright. No. 933,608; Sept. 7; Sp. p. 1329; Gaz. vol. 146; p. 196.
- Weighing device. A. C. Mather. No. 935,214; Sept. 28; Sp. p. 4506; Gaz. vol. 146; p. 801.
- Weighing-machine. C. H. Dempsey. No. 912,088; Feb. 9; Sp. p. 2179; Gaz. vol. 139; p. 378.
- Weighing-machine. J. C. Graham. No. 918,442; Apr. 13; Sp. p. 2999; Gaz. vol. 141; p. 527.
- Weighing-machine. W. S. Scales. No. 924,191; June 8; Sp. p. 2389; Gaz. vol. 143; p. 392.
- Weighing-machine. K. Böttcher. No. 928,491; July 20; Sp. p. 3722; Gaz. vol. 144; p. 655.
- Weighing-machine. C. J. McLeod. No. 930,875; Aug. 10; Sp. p. 2571; Gaz. vol. 145; p. 443.
- Weighing-machine. W. W. Rosenfield. No. 936,362; Oct. 12; Sp. p. 1577; Gaz. vol. 147; p. 270.
- Weighing-machine. W. W. Rosenfield. No. 939,747; Nov. 9; Sp. p. 2868; Gaz. vol. 148; p. 473.
- Weighing-machine. G. L. Cochius. No. 944,847; Dec. 28; Sp. p. 6081; Gaz. vol. 149; p. 1046.
- Weighing-machine, Automatic. F. Verplast. No. 918,614; Apr. 20; Sp. p. 3381; Gaz. vol. 141; p. 612.
- Weighing-machine, Automatic. W. E. Nickerson. No. 930,489; Aug. 10; Sp. p. 1736; Gaz. vol. 145; p. 313.
- Weighing-machine, Automatic. T. R. Weyant. No. 934,420; Sept. 14; Sp. p. 2921; Gaz. vol. 146; p. 489.
- Weighing-machine, Automatic. C. A. Douglass, F. L. Jones, and A. F. Harris. No. 936,613; Oct. 12; Sp. p. 2140; Gaz. vol. 147; p. 355.
- Weighing-machine, Automatic. F. Edtbauer. No. 943,012; Dec. 14; Sp. p. 2121; Gaz. vol. 149; p. 363.
- Weighing-machine, Coin-controlled. C. J. McLeod. No. 930,876; Aug. 10; Sp. p. 2588; Gaz. vol. 145; p. 443.
- Weighing-machine for liquids, Hydraulic. A. Rak. No. 936,358; Oct. 12; Sp. p. 1568; Gaz. vol. 147; p. 268.
- Weighing-machines, Adjustable hopper for automatic. A. Sonander. No. 934,849; Sept. 21; Sp. p. 3772; Gaz. vol. 146; p. 654.
- Weighing-machines, Feed-gate for. H. Richardson. No. 935,689; Oct. 5; Sp. p. 140; Gaz. vol. 147; p. 23.
- Weighing means, Automatic. W. H. Rough. No. 924,940; June 15; Sp. p. 3953; Gaz. vol. 143; p. 675.
- Weight and cost scale, Automatic. M. Unger. No. 914,764; Mar. 9; Sp. p. 2340; Gaz. vol. 140; p. 393.
- Weight-carrying mechanism. C. H. Seymore. No. 915,628; Mar. 16; Sp. p. 4069; Gaz. vol. 140; p. 703.
- Weight for pickling-vats. C. G. Deibel. No. 916,919; Mar. 30; Sp. p. 6586; Gaz. vol. 140; p. 1174.
- Weight-indicating mechanism. A. Heimann and L. Flatow. No. 938,054; Oct. 26; Sp. p. 5122; Gaz. vol. 147; p. 880.
- Weight-motor. D. D. Spracklen. No. 935,422; Sept. 28; Sp. p. 4915; Gaz. vol. 146; p. 868.
- Weight of loads, Means for determining. A. E. Brown. No. 932,109; Aug. 24; Sp. p. 5288; Gaz. vol. 145; p. 901.
- Weight-relieving device. O. L. Owen. No. 908,606; Jan. 5; Sp. p. 372; Gaz. vol. 138; p. 60.
- Weight, Sectional window-. W. S. Sanborn. No. 924,837; June 15; Sp. p. 3745; Gaz. vol. 143; p. 641.
- Weirs, &c., Arched construction of. W. H. Shields. No. 927,290; July 6; Sp. p. 1204; Gaz. vol. 144; p. 198.
- Welding. F. G. Haldy. No. 914,946; Mar. 9; Sp. p. 2688; Gaz. vol. 140; p. 451.
- Welding and bonding rails and other metal pieces. C. F. Jacobs. No. 933,456; Sept. 7; Sp. p. 959; Gaz. vol. 146; p. 145.
- Welding and brazing tool. R. E. Bruckner. No. 935,458; Sept. 28; Sp. p. 4985; Gaz. vol. 146; p. 881.
- Welding and calking machine. N. B. Robey. No. 935,232; Sept. 28; Sp. p. 4538; Gaz. vol. 146; p. 808.
- Welding apparatus. W. Siebenmorgen. No. 918,921; Apr. 20; Sp. p. 4091; Gaz. vol. 141; p. 717.
- Welding apparatus, Electric chain-link-. C. L. Hoff. No. 943,190; Dec. 14; Sp. p. 2492; Gaz. vol. 149; p. 423.
- Welding-burner. J. Knappich. No. 943,882; Dec. 21; Sp. p. 3970; Gaz. vol. 149; p. 690.
- Welding by electricity, Apparatus for. C. E. Thompson. No. 915,249; Mar. 16; Sp. p. 3303; Gaz. vol. 140; p. 577.
- Welding, Clamping-tool for holding and butting rail ends, beams, &c., during. H. Goldschmidt and F. Lange. No. 918,745; Apr. 20; Sp. p. 3712; Gaz. vol. 141; p. 659.
- Welding compound. M. U. Schoop. No. 943,164; Dec. 14; Sp. p. 2443; Gaz. vol. 149; p. 415.
- Welding device, Foot-power. H. H. Garver and G. F. Bissell. No. 942,444; Dec. 7; Sp. p. 858; Gaz. vol. 149; p. 140.
- Welding, Electric. M. Lachman. No. 923,128; May 25; Sp. p. 6268; Gaz. vol. 142; p. 1084.
- Welding-furnace. B. W. Cribb. No. 936,221; Oct. 5; Sp. p. 1286; Gaz. vol. 147; p. 196.
- Welding machine, Chain-. F. H. Howard. No. 938,056; Oct. 26; Sp. p. 5127; Gaz. vol. 147; p. 881.
- Welding machine, Electric-. W. C. Winfield and A. C. Taylor. No. 924,868; June 15; Sp. p. 3813; Gaz. vol. 143; p. 651.
- Welding machine, Electric-. A. E. Buchenberg. No. 932,441; Aug. 31; Sp. p. 5932; Gaz. vol. 145; p. 1034.
- Welding machine, Electric-. A. E. Buchenberg. No. 943,861; Dec. 21; Sp. p. 3927; Gaz. vol. 149; p. 683.
- Welding-machine, Electrical. W. C. Winfield. No. 935,346; Sept. 28; Sp. p. 4781; Gaz. vol. 146; p. 845.
- Welding machine, Flue-. K. Mathers. No. 937,083; Oct. 19; Sp. p. 3074; Gaz. vol. 147; p. 540.
- Welding metals. H. Goldschmidt. (Reissue.) No. 12,953; May 4; Sp. p. 1651; Gaz. vol. 142; p. 264.
- Welding metals, Electrically. C. R. Sturdevant. No. 934,854; Sept. 21; Sp. p. 3781; Gaz. vol. 146; p. 656.
- Welding of aluminum, Flux for the autogenous. M. U. Schoop. No. 922,523; May 25; Sp. p. 4988; Gaz. vol. 142; p. 887.
- Welding-tool. W. A. Sparks. No. 940,903; Nov. 23; Sp. p. 5439; Gaz. vol. 148; p. 921.
- Welding-torch, Gaseous-fuel-burning. G. Peterson and E. M. Bournonville. No. 935,684; Oct. 5; Sp. p. 132; Gaz. vol. 147; p. 21.
- Well bailer, Oil-. D. Kimmel. No. 908,680; Jan. 5; Sp. p. 536; Gaz. vol. 138; p. 83.
- Well-bucket holder. W. T. Laughlin. No. 910,294; Jan. 19; Sp. p. 3812; Gaz. vol. 138; p. 686.
- Well-capping device, Oil-. F. M. Henning. No. 941,452; Nov. 30; Sp. p. 6641; Gaz. vol. 148; p. 1125.
- Well-cleaning device. F. A. Monroe. No. 943,885; Dec. 21; Sp. p. 3977; Gaz. vol. 149; p. 690.
- Well-cleaning-out device. T. B. Hyland. No. 936,901; Oct. 12; Sp. p. 2709; Gaz. vol. 147; p. 452.
- Well-drill. H. B. King. No. 933,762; Sept. 14; Sp. p. 1641; Gaz. vol. 146; p. 271.
- Well-drill jar. H. B. King. No. 935,914; Oct. 5; Sp. p. 677; Gaz. vol. 147; p. 98.
- Well-driller's fishing-tool. M. L. Thorn and W. M. McGee. No. 944,582; Dec. 28; Sp. p. 5513; Gaz. vol. 149; p. 956.
- Well drilling and operating apparatus. E. J. Fithian and H. D. Murray. No. 940,589; Nov. 16; Sp. p. 4758; Gaz. vol. 148; p. 792.
- Well-drilling apparatus. H. B. Walker. No. 931,101; Aug. 17; Sp. p. 3107; Gaz. vol. 145; p. 545.
- Well-drilling, Bull-shaft drum for. J. A. Mauck. No. 935,532; Sept. 28; Sp. p. 5148; Gaz. vol. 146; p. 905.
- Well-drilling-derrick attachment. N. J. Jones. No. 914,579; Mar. 9; Sp. p. 1942; Gaz. vol. 140; p. 332.
- Well-drilling machine. J. G. Russell. No. 910,235; Jan. 19; Sp. p. 3655; Gaz. vol. 138; p. 664.
- Well-drilling machine. G. W. Smith and C. C. Sanford. No. 925,960; June 22; Sp. p. 6013; Gaz. vol. 143; p. 1039.
- Well-drilling mechanism. H. R. Decker. No. 920,548; May 4; Sp. p. 923; Gaz. vol. 142; p. 149.
- Well ejector, Oil-. J. W. Plimpton. No. 916,366; Mar. 23; Sp. p. 5478; Gaz. vol. 140; p. 972.
- Well mechanism. M. E. Layne. No. 910,696; Jan. 26; Sp. p. 4640; Gaz. vol. 138; p. 843.
- Well or cistern top. W. B. Libby. No. 912,477; Feb. 16; Sp. p. 2996; Gaz. vol. 139; p. 541.
- Well-packer. W. H. and L. P. Kesselman. No. 909,609; Jan. 12; Sp. p. 2372; Gaz. vol. 138; p. 421.
- Well packer, Oil, gas, and water. L. E. Robinson. No. 927,874; July 13; Sp. p. 2440; Gaz. vol. 144; p. 417.
- Well-points, Device for securing screens in. W. E. Palmer and B. F. Scoville. No. 923,371; June 1; Sp. p. 597; Gaz. vol. 143; p. 87.
- Well-rig bull-wheel. W. B. Claypoole. No. 917,412; Apr. 6; Sp. p. 914; Gaz. vol. 141; p. 158.
- Well-screen. W. A. Archer. No. 921,337; May 11; Sp. p. 2563; Gaz. vol. 142; p. 442.
- Well-sinking apparatus. M. T. Chapman. No. 943,913; Dec. 21; Sp. p. 4050; Gaz. vol. 149; p. 702.
- Well-strainer. A. M. Brown and F. Hunter. No. 929,191; July 27; Sp. p. 5160; Gaz. vol. 144; p. 915.
- Well-strainers, Self-closing bottom for. J. A. Pollard. No. 941,205; Nov. 23; Sp. p. 6099; Gaz. vol. 148; p. 1023.
- Well-tube cutter. J. F. Baker. No. 942,701; Dec. 7; Sp. p. 1382; Gaz. vol. 149; p. 227.
- Well-tubing and means for connecting sections thereof. G. A. Pittman. No. 941,204; Nov. 23; Sp. p. 6098; Gaz. vol. 148; p. 1023.
- Wells, Apparatus for firing explosives in. L. H. Broadwater. No. 941,852; Nov. 30; Sp. p. 7501; Gaz. vol. 148; p. 1261.
- Wells, Apparatus for pulling oil-. L. D. Keller. No. 930,480; Aug. 10; Sp. p. 1720; Gaz. vol. 145; p. 311.
- Wells, Device for pulling oil-. D. J. McKinney. No. 920,615; May 4; Sp. p. 1054; Gaz. vol. 142; p. 171.
- Wells, Heaving-plug for. D. Daniels. No. 932,766; Aug. 31; Sp. p. 6650; Gaz. vol. 145; p. 1143.
- Wells, Installing. H. Frasch. No. 928,036; July 13; Sp. p. 2769; Gaz. vol. 144; p. 472.
- Wells, Plunger mechanism for oil-. L. R. McCarthy and J. C. Vroman. No. 940,347; Nov. 16; Sp. p. 4219; Gaz. vol. 148; p. 711.
- Wells, Trip wall-packer for oil-. W. Palm. No. 942,739; Dec. 7; Sp. p. 1465; Gaz. vol. 149; p. 239.
- Welt. G. E. Rollins. No. 927,078; July 6; Sp. p. 801; Gaz. vol. 144; p. 128.
- Welt-beating machine. W. B. Keighley. No. 920,877; May 4; Sp. p. 1609; Gaz. vol. 142; p. 256.
- Welt-skiving machine. E. E. Winkley. No. 910,339; Jan. 19; Sp. p. 3899; Gaz. vol. 138; p. 701.
- Welts, Material for waterproof. J. R. Reynolds. No. 924,106; June 8; Sp. p. 2165; Gaz. vol. 143; p. 362.
- Weltting-machine. J. Larsen. No. 927,163; July 6; Sp. p. 939; Gaz. vol. 144; p. 152.



*Alphabetical list of inventions—Continued.*

- Wet-machine. W. White. No. 939,460; Nov. 9; Sp. p. 2251; Gaz. vol. 148; p. 374.
- Whalebone stretching and straightening machine. A. O. Holzhäuer. No. 931,204; Aug. 17; Sp. p. 3345; Gaz. vol. 145; p. 581.
- Wheat-binder attachment. S. J. Maixner. No. 923,676; June 1; Sp. p. 1242; Gaz. vol. 143; p. 192.
- Wheat-heater. H. F. Pietsch. No. 912,322; Feb. 16; Sp. p. 2681; Gaz. vol. 139; p. 491.
- Wheat, Machine for separating cockle from. C. P. Ballard. No. 923,932; June 3; Sp. p. 1841; Gaz. vol. 143; p. 307.
- Wheat-scouring machine. M. Schiebdreier. No. 944,510; Dec. 28; Sp. p. 5342; Gaz. vol. 149; p. 931.
- Wheel: See Abrasive wheel; Armor-tired wheel; Automobile-wheel; Automobile steering-wheel; Bearing-wheel; Bucket-wheel; Buffing-wheel; Buffing or polishing wheel; Cable-wheel; Cam-wheel; Car-wheel; Caster-wheel; Coaster-wheel; Cushioned wheel; Drain-wheel; Drive-wheel; Elastic wheel; Elevator feed-wheel; Engine-wheel; Fifth-wheel; Fly-wheel; Gage-wheel; Gapped wheel; Gear-wheel; Grinding-wheel; Grinding or abrading wheel; Grip-wheel; Grooved wheel; Hand-wheel; Hydropneumatic wheel; Metal wheel; Paddle-wheel; Propeller-wheel; Railway-wheel; Resilient wheel; Sandpaper-wheel; Saw-wheel; Sectional wheel; Self-lubricating wheel; Sheet-metal wheel; Shock-absorbing wheel; Skate-wheel; Sleigh driving-wheel; Spring-wheel; Steering-wheel; Toy push-wheel; Traction-wheel; Travis-wheel; Trolley-wheel; Trolley-pole wheel; Truck and cage wheel; Turbine water-wheel; Vehicle-wheel; Vehicle cushion-wheel; Vehiclespring-wheel; Water-wheel; Water-power wheel; Well-rig bull-wheel; Wind-wheel; Wooden-rim wheel.
- Wheel. J. Jenkinson. No. 910,001; Jan. 19; Sp. p. 3164; Gaz. vol. 138; p. 585.
- Wheel. T. H. Walbridge. No. 911,926; Feb. 9; Sp. p. 1752; Gaz. vol. 139; p. 324.
- Wheel. R. W. Pringle. No. 912,615; Feb. 16; Sp. p. 3297; Gaz. vol. 139; p. 591.
- Wheel. B. C. Seaton. No. 912,627; Feb. 16; Sp. p. 3323; Gaz. vol. 139; p. 595.
- Wheel. T. J. Thorp. No. 912,753; Feb. 16; Sp. p. 3636; Gaz. vol. 139; p. 641.
- Wheel. T. J. Thorp. No. 912,919; Feb. 16; Sp. p. 3916; Gaz. vol. 139; p. 690.
- Wheel. J. Soss. No. 913,066; Feb. 23; Sp. p. 4216; Gaz. vol. 139; p. 763.
- Wheel. J. C. Jackson. No. 914,844; Mar. 9; Sp. p. 2502; Gaz. vol. 140; p. 418.
- Wheel. H. A. Glasrud and J. Anderson. No. 914,942; Mar. 9; Sp. p. 2680; Gaz. vol. 140; p. 449.
- Wheel. M. J. and P. P. Adams. No. 916,402; Mar. 30; Sp. p. 5569; Gaz. vol. 140; p. 1009.
- Wheel. A. Norrander. No. 916,480; Mar. 30; Sp. p. 5737; Gaz. vol. 140; p. 1035.
- Wheel. A. Hanson. No. 916,929; Mar. 30; Sp. p. 6608; Gaz. vol. 140; p. 1178.
- Wheel. C. B. Chase. No. 917,001; Apr. 6; Sp. p. 73; Gaz. vol. 141; p. 17.
- Wheel. R. W. and L. H. Bateman. No. 917,524; Apr. 6; Sp. p. 1113; Gaz. vol. 141; p. 194.
- Wheel. J. J. Schmitz. No. 917,967; Apr. 13; Sp. p. 2030; Gaz. vol. 141; p. 369.
- Wheel. R. C. Blean. No. 918,118; Apr. 13; Sp. p. 2357; Gaz. vol. 141; p. 422.
- Wheel. W. Flynn. No. 920,309; May 4; Sp. p. 460; Gaz. vol. 142; p. 71.
- Wheel. J. S. Strawn and R. W. Davies. No. 920,685; May 4; Sp. p. 1212; Gaz. vol. 142; p. 195.
- Wheel. H. E. Keyes. No. 921,613; May 11; Sp. p. 3120; Gaz. vol. 142; p. 533.
- Wheel. U. S. Jenkins and J. G. Broman. No. 921,996; May 18; Sp. p. 3929; Gaz. vol. 142; p. 687.
- Wheel. B. C. Seaton. No. 922,344; May 18; Sp. p. 4602; Gaz. vol. 142; p. 800.
- Wheel. G. M. Badger. No. 923,001; May 25; Sp. p. 5977; Gaz. vol. 142; p. 1042.
- Wheel. J. M. Toombs, Jr. No. 925,398; June 15; Sp. p. 4827; Gaz. vol. 143; p. 325.
- Wheel. C. L. Tomlinson. No. 926,626; June 29; Sp. p. 7337; Gaz. vol. 143; p. 1294.
- Wheel. J. G. Maxwell. No. 927,259; July 6; Sp. p. 1151; Gaz. vol. 144; p. 188.
- Wheel. J. J. Kelly. No. 927,977; July 13; Sp. p. 2657; Gaz. vol. 144; p. 452.
- Wheel. L. J. Goodspeed. No. 929,208; July 27; Sp. p. 5188; Gaz. vol. 144; p. 920.
- Wheel. F. R. Mather. No. 929,234; July 27; Sp. p. 5238; Gaz. vol. 144; p. 928.
- Wheel. W. S. Laughlin. No. 934,408; Sept. 14; Sp. p. 2901; Gaz. vol. 146; p. 485.
- Wheel. G. W. Heartley. No. 934,525; Sept. 21; Sp. p. 3126; Gaz. vol. 146; p. 545.
- Wheel. L. Y. León. No. 936,000; Oct. 5; Sp. p. 950; Gaz. vol. 147; p. 128.
- Wheel. F. E. Felts. No. 936,708; Oct. 12; Sp. p. 2333; Gaz. vol. 147; p. 387.
- Wheel. A. C. Gillam. No. 936,994; Oct. 12; Sp. p. 2877; Gaz. vol. 147; p. 481.
- Wheel. C. E. Partridge and O. H. Hertel. No. 937,385; Oct. 19; Sp. p. 3728; Gaz. vol. 147; p. 638.
- Wheel. E. Stewart. No. 937,969; Oct. 26; Sp. p. 4940; Gaz. vol. 147; p. 852.
- Wheel. G. H. Treadgold. No. 937,973; Oct. 26; Sp. p. 4947; Gaz. vol. 147; p. 853.
- Wheel. W. P. Davies. No. 940,584; Nov. 16; Sp. p. 4750; Gaz. vol. 148; p. 791.
- Wheel. F. E. Bertrand and G. Portschke. No. 941,753; Nov. 30; Sp. p. 7269; Gaz. vol. 148; p. 1226.
- Wheel. J. W. Meyer. No. 942,005; Nov. 30; Sp. p. 7790; Gaz. vol. 148; p. 1312.
- Wheel. C. C. Foss and C. L. White. No. 942,819; Dec. 7; Sp. p. 1617; Gaz. vol. 149; p. 266.
- Wheel. D. H. Allen. No. 944,532; Dec. 28; Sp. p. 5396; Gaz. vol. 149; p. 939.
- Wheel antikidding device. E. C. Gardner. No. 914,712; Mar. 9; Sp. p. 2229; Gaz. vol. 140; p. 374.
- Wheel antikidding device. R. M. Winsch. No. 921,936; May 18; Sp. p. 3796; Gaz. vol. 142; p. 667.
- Wheel antikidding tire attachment. H. H. Frey. No. 915,713; Mar. 16; Sp. p. 4250; Gaz. vol. 140; p. 732.
- Wheel attachment, Current-collector. L. R. Hecker. No. 919,009; Apr. 20; Sp. p. 4263; Gaz. vol. 141; p. 745.
- Wheel attachment for dragging logs and heavy loads. J. H. Long. No. 925,780; June 22; Sp. p. 5648; Gaz. vol. 143; p. 980.
- Wheel attachment, Furrow. L. J. Hamilton. No. 928,446; July 20; Sp. p. 3643; Gaz. vol. 144; p. 641.
- Wheel bearing mechanism, Vehicle. C. F. Umboltz. No. 925,536; June 22; Sp. p. 5110; Gaz. vol. 143; p. 900.
- Wheel-block. A. J. A. Bennett. No. 942,161; Dec. 7; Sp. p. 289; Gaz. vol. 149; p. 45.
- Wheel-blocking device, Truck. L. Samuel. No. 940,365; Nov. 16; Sp. p. 4255; Gaz. vol. 148; p. 717.
- Wheel brake, Vehicle. O. L. Herod. No. 935,204; Sept. 28; Sp. p. 4485; Gaz. vol. 146; p. 798.
- Wheel-chair. C. L. Hockney. No. 909,411; Jan. 12; Sp. p. 1976; Gaz. vol. 138; p. 352.
- Wheel-chock. G. N. Crawford. No. 936,417; Oct. 12; Sp. p. 1712; Gaz. vol. 147; p. 289.
- Wheel construction. R. B. Woodworth. No. 932,081; Aug. 24; Sp. p. 5229; Gaz. vol. 145; p. 892.
- Wheel creeping, Means for preventing an auxiliary. T. M. and W. Davies. No. 913,704; Mar. 2; Sp. p. 54; Gaz. vol. 140; p. 11.
- Wheel driving mechanism, Motor-road. W. Lorenz. No. 915,367; Mar. 16; Sp. p. 3525; Gaz. vol. 140; p. 615.
- Wheel-fender. T. W. Mayson and J. Edgar. No. 944,199; Dec. 21; Sp. p. 4646; Gaz. vol. 149; p. 795.
- Wheel for motor-cars, &c. G. S. Ogilvie. No. 934,416; Sept. 14; Sp. p. 2912; Gaz. vol. 146; p. 487.
- Wheel-guard. C. Johnston. No. 911,881; Feb. 9; Sp. p. 1666; Gaz. vol. 139; p. 309.
- Wheel-guard. G. W. Mahan. No. 934,925; Sept. 21; Sp. p. 3919; Gaz. vol. 146; p. 679.
- Wheel-guard, Automatic. C. E. Gierding. No. 935,491; Sept. 28; Sp. p. 5041; Gaz. vol. 146; p. 891.
- Wheel-guard or fender, Vehicle. J. O. Roberts. No. 941,170; Nov. 23; Sp. p. 6021; Gaz. vol. 148; p. 1011.
- Wheel-guard, Rotary. F. E. Hutchings. No. 920,574; May 4; Sp. p. 973; Gaz. vol. 142; p. 158.
- Wheel-lift. J. H. D. Rosan. No. 915,889; Mar. 23; Sp. p. 4595; Gaz. vol. 140; p. 816.
- Wheel-lock. W. W. Jones. No. 910,068; Jan. 19; Sp. p. 3292; Gaz. vol. 138; p. 607.
- Wheel lock, Hand. T. H. Ward and C. R. Yerrick. No. 928,893; July 20; Sp. p. 4533; Gaz. vol. 144; p. 789.
- Wheel-machines, Indexing device for. C. Borg. No. 921,071; May 11; Sp. p. 1998; Gaz. vol. 142; p. 352.
- Wheel, pulley, and the like. P. Montupet. No. 942,400; Dec. 7; Sp. p. 772; Gaz. vol. 149; p. 124.
- Wheel retainer, Vehicle. F. O. Patten. No. 937,171; Oct. 19; Sp. p. 3269; Gaz. vol. 147; p. 570.
- Wheel-rim. F. C. Miller. No. 911,425; Feb. 2; Sp. p. 778; Gaz. vol. 139; p. 135.
- Wheel-rim, Detachable. C. Kindscherf. No. 934,187; Sept. 14; Sp. p. 2481; Gaz. vol. 146; p. 409.
- Wheel-rim, Emergency. W. F. and R. L. Jenkins. No. 942,909; Dec. 14; Sp. p. 1867; Gaz. vol. 149; p. 329.
- Wheel-rim locking-ring. R. S. Bryant. No. 914,381; Mar. 9; Sp. p. 1559; Gaz. vol. 140; p. 265.
- Wheel rim, Motor-car. D. C. Smith and W. F. Gorton. No. 944,514; Dec. 28; Sp. p. 5351; Gaz. vol. 149; p. 932.
- Wheel rim, Removable vehicle. G. S. Van Voorhis. No. 934,862; Sept. 21; Sp. p. 3793; Gaz. vol. 146; p. 658.
- Wheel-rim serving as tire-retainer, Divided. R. Kronenberg. No. 909,001; Jan. 5; Sp. p. 1174; Gaz. vol. 138; p. 187.
- Wheel rim, Vehicle. J. M. Alderfer. No. 918,721; Apr. 20; Sp. p. 3670; Gaz. vol. 141; p. 651.
- Wheel rim, Vehicle. E. C. Shaw. No. 926,296; June 29; Sp. p. 6720; Gaz. vol. 143; p. 1185.
- Wheel rim, Vehicle. E. C. Shaw. No. 927,687; July 13; Sp. p. 2054; Gaz. vol. 144; p. 357.
- Wheel rim, Vehicle. O. Kirsch. No. 940,602; Nov. 16; Sp. p. 4780; Gaz. vol. 148; p. 796.
- Wheel rim, Vehicle. P. W. Litchfield. No. 943,029; Dec. 14; Sp. p. 2160; Gaz. vol. 149; p. 369.
- Wheel rim, Vehicle. J. M. Alderfer. No. 944,351; Dec. 28; Sp. p. 4961; Gaz. vol. 149; p. 875.
- Wheel-scraper. C. W. Stark. No. 913,576; Feb. 23; Sp. p. 5284; Gaz. vol. 139; p. 936.
- Wheel-scraper. C. W. Stark. No. 942,471; Dec. 7; Sp. p. 930; Gaz. vol. 149; p. 150.
- Wheel shield, Trolley. A. A. Roth. No. 913,168; Feb. 23; Sp. p. 4427; Gaz. vol. 139; p. 798.
- Wheel-tire. T. Midgley and E. Hopkinson. No. 908,475; Jan. 5; Sp. p. 85; Gaz. vol. 138; p. 16.
- Wheel-tire chain mat. B. J. Morehouse. No. 911,427; Feb. 2; Sp. p. 781; Gaz. vol. 139; p. 136.
- Wheel-tire rim. J. A. Connor. No. 909,368; Jan. 12; Sp. p. 1900; Gaz. vol. 138; p. 339.



*Alphabetical list of inventions—Continued.*

- Wheels and shafts, Safety device for connecting. W. F. Richards. No. 912,488; Feb. 16; Sp. p. 3018; Gaz. vol. 139; p. 545.
- Wheels, Antiskid attachment for vehicle-. T. T. Chaloner. No. 944,772; Dec. 28; Sp. p. 5912; Gaz. vol. 149; p. 1019.
- Wheels, Apparatus for treating wooden. J. J. Lippe. No. 941,683; Nov. 30; Sp. p. 7104; Gaz. vol. 148; p. 1201.
- Wheels, Detachable rim for vehicle-. P. G. Challiss. No. 943,811; Dec. 21; Sp. p. 3830; Gaz. vol. 149; p. 666.
- Wheels, Detachable spur for vehicle-. E. E. Eastwood. No. 938,990; Nov. 2; Sp. p. 1171; Gaz. vol. 148; p. 187.
- Wheels, Machine for cutting the teeth of bevel-. S. Sunderland. No. 908,901; Jan. 5; Sp. p. 969; Gaz. vol. 138; p. 155.
- Wheels, Manufacturing metal. G. Kowarsky. No. 939,714; Nov. 9; Sp. p. 2789; Gaz. vol. 148; p. 461.
- Wheels, Mud-scraper for. J. O. Davison. No. 940,859; Nov. 23; Sp. p. 5352; Gaz. vol. 148; p. 907.
- Wheelbarrow. J. E. Armstrong. No. 915,533; Mar. 16; Sp. p. 3851; Gaz. vol. 140; p. 669.
- Wheelbarrow. A. N. Faulkner. No. 924,547; June 8; Sp. p. 3126; Gaz. vol. 143; p. 509.
- Wheelbarrow. B. F. Brown. No. 926,467; June 29; Sp. p. 7043; Gaz. vol. 143; p. 1241.
- Wheelbarrow. W. Haslup. No. 930,959; Aug. 10; Sp. p. 2766; Gaz. vol. 145; p. 470.
- Wheelbarrow. R. T. Todd. No. 931,096; Aug. 17; Sp. p. 3098; Gaz. vol. 145; p. 543.
- Wheelbarrow. L. Wigh. No. 936,968; Oct. 12; Sp. p. 2836; Gaz. vol. 147; p. 473.
- Wheelbarrow. H. J. Spangler. No. 944,291; Dec. 28; Sp. p. 4835; Gaz. vol. 149; p. 853.
- Wheelbarrow-frame. F. J. Cooper. No. 917,414; Apr. 6; Sp. p. 917; Gaz. vol. 141; p. 159.
- Wheelbarrow with weighing device, Bag-. H. Lange. No. 944,335; Dec. 28; Sp. p. 4931; Gaz. vol. 149; p. 869.
- Wheeled rake. A. E. Fox. No. 932,011; Aug. 24; Sp. p. 5082; Gaz. vol. 145; p. 869.
- Wheelwright's tool. F. M. Sturgis. No. 931,160; Aug. 17; Sp. p. 3248; Gaz. vol. 145; p. 566.
- Whetstone, blotter, and ruler, Combined. E. B. Pike. No. 928,963; July 20; Sp. p. 4142; Gaz. vol. 144; p. 721.
- Whiffletree. G. F. Danielson. No. 916,917; Mar. 30; Sp. p. 6583; Gaz. vol. 140; p. 1173.
- Whiffletree. T. S. Moffett. No. 937,317; Oct. 19; Sp. p. 3566; Gaz. vol. 147; p. 616.
- Whiffletree. H. O. Schultz. No. 940,368; Nov. 16; Sp. p. 4276; Gaz. vol. 148; p. 718.
- Whiffletree and trace connection. G. A. Crow. No. 910,788; Jan. 26; Sp. p. 4828; Gaz. vol. 138; p. 873.
- Whiffletree attachment. H. A. Bierley. No. 934,789; Sept. 21; Sp. p. 3655; Gaz. vol. 146; p. 635.
- Whiffletree-coupling. J. B. Kriner. No. 914,428; Mar. 9; Sp. p. 1644; Gaz. vol. 140; p. 281.
- Whiffletree-fender. E. N. Smith. No. 924,389; June 8; Sp. p. 2818; Gaz. vol. 143; p. 458.
- Whiffletree-hook. A. F. Crosby. No. 909,067; Jan. 5; Sp. p. 1301; Gaz. vol. 138; p. 208.
- Whiffletree-hook. W. O. H. Bergman. No. 916,830; Mar. 30; Sp. p. 6401; Gaz. vol. 140; p. 1144.
- Whiffletree-hook. T. Morcom. No. 921,267; May 11; Sp. p. 2391; Gaz. vol. 142; p. 419.
- Whiffletree-hook. R. F. Bloom. No. 942,431; Dec. 7; Sp. p. 826; Gaz. vol. 149; p. 135.
- Whiffletree, Quick-releasing. E. A. Carlin. No. 938,120; Oct. 26; Sp. p. 5273; Gaz. vol. 147; p. 903.
- Whiffletree, Spring-. F. R. Willson. No. 932,932; Aug. 31; Sp. p. 6969; Gaz. vol. 145; p. 1197.
- Whiffletrees, Tug-releasing device for. O. O. Fenwall. No. 920,302; May 4; Sp. p. 448; Gaz. vol. 142; p. 69.
- Whip. H. Fleisch. No. 931,047; Aug. 17; Sp. p. 2991; Gaz. vol. 145; p. 527.
- Whip and cane, Combined riding and driving. B. B. and D. H. Keepert. No. 918,557; Apr. 20; Sp. p. 3258; Gaz. vol. 141; p. 594.
- Whip and robe lock, Combination. W. York. No. 943,107; Dec. 14; Sp. p. 2334; Gaz. vol. 149; p. 396.
- Whip, &c., case. N. F. Alston. No. 910,108; Jan. 19; Sp. p. 3369; Gaz. vol. 138; p. 619.
- Whip, Drover's. G. E. Smith. No. 915,493; Mar. 16; Sp. p. 3776; Gaz. vol. 140; p. 657.
- Whip, Farmer's and harvester's combination-. L. C. Lambert. No. 934,674; Sept. 21; Sp. p. 3422; Gaz. vol. 146; p. 597.
- Whip-holder. H. G. Weatherill. No. 909,718; Jan. 12; Sp. p. 2598; Gaz. vol. 138; p. 459.
- Whip-lock. W. G. Lieser. No. 911,309; Feb. 2; Sp. p. 564; Gaz. vol. 139; p. 97.
- Whip-lock. W. E. Roberts. No. 916,490; Mar. 30; Sp. p. 5761; Gaz. vol. 140; p. 1038.
- Whip-lock. M. R. McClelland. No. 919,061; Apr. 20; Sp. p. 4358; Gaz. vol. 141; p. 761.
- Whip-lock. A. B. Bartlett. No. 927,316; July 6; Sp. p. 1247; Gaz. vol. 144; p. 205.
- Whip-lock. J. W. Robertson. No. 942,285; Dec. 7; Sp. p. 554; Gaz. vol. 149; p. 87.
- Whip-lock. W. H. Beach. No. 943,729; Dec. 21; Sp. p. 3609; Gaz. vol. 149; p. 637.
- Wind-shield. J. H. Sprague. No. 912,911; Feb. 16; Sp. p. 3901; Gaz. vol. 139; p. 687.
- Whip-socket. W. Luther. No. 909,629; Jan. 12; Sp. p. 2418; Gaz. vol. 138; p. 428.
- Whip-socket. W. B. McMasters. No. 910,081; Jan. 19; Sp. p. 3320; Gaz. vol. 138; p. 611.
- Whip-socket. T. A. Hoover. No. 924,661; June 15; Sp. p. 3369; Gaz. vol. 143; p. 581.
- Whip-socket. J. C. Feickert. No. 928,370; July 20; Sp. p. 3491; Gaz. vol. 144; p. 616.
- Whip-socket. J. Van Blarcom. No. 930,577; Aug. 10; Sp. p. 1962; Gaz. vol. 145; p. 345.
- Whip-socket. J. H. Larson. No. 931,437; Aug. 17; Sp. p. 3842; Gaz. vol. 145; p. 662.
- Whip-socket. A. R. Tuttle. No. 933,140; Sept. 7; Sp. p. 211; Gaz. vol. 146; p. 36.
- Whip-socket. J. W. Veit and J. N. Higgins. No. 934,109; Sept. 14; Sp. p. 2328; Gaz. vol. 146; p. 382.
- Whip-socket. F. T. Wood. No. 937,200; Oct. 19; Sp. p. 3326; Gaz. vol. 147; p. 578.
- Whip-socket. R. Habekost. No. 939,246; Nov. 9; Sp. p. 1730; Gaz. vol. 148; p. 300.
- Whip-socket. J. A. Musgrove, Jr. No. 944,201; Dec. 21; Sp. p. 4648; Gaz. vol. 149; p. 795.
- Whip socket and lock. C. Turney. No. 944,979; Dec. 28; Sp. p. 6343; Gaz. vol. 149; p. 1088.
- Whip socket and lock, Combined. T. K. Scott. No. 919,963; Apr. 27; Sp. p. 6417; Gaz. vol. 141; p. 1096.
- Whip-socket bracket. L. Landkammer. No. 935,664; Oct. 5; Sp. p. 88; Gaz. vol. 147; p. 15.
- Whip-socket lock. J. B. Hollenbeck. No. 925,635; June 22; Sp. p. 5309; Gaz. vol. 143; p. 933.
- Whip-socket, Locking. J. Olsafskie. No. 909,109; Jan. 5; Sp. p. 1402; Gaz. vol. 138; p. 223.
- Whip-socket, Locking. C. W. Mayhugh. No. 910,212; Jan. 19; Sp. p. 3604; Gaz. vol. 138; p. 654.
- Whip-socket, Locking. J. T. De Moss. No. 927,501; July 13; Sp. p. 1634; Gaz. vol. 144; p. 294.
- Whip-socket, Locking. C. H. Frederick. No. 929,931; Aug. 3; Sp. p. 656; Gaz. vol. 145; p. 104.
- Whip-socket, Locking. F. J. Erickson. No. 930,366; Aug. 10; Sp. p. 1506; Gaz. vol. 145; p. 274.
- Whips or like articles, Case for. N. F. Alston. No. 933,044; Sept. 7; Sp. p. 2; Gaz. vol. 146; p. 3.
- Whisky-still. J. F. Jett. No. 908,465; Jan. 5; Sp. p. 59; Gaz. vol. 138; p. 13.
- Whistle. G. W. Hyser. No. 926,490; June 29; Sp. p. 7081; Gaz. vol. 143; p. 1249.
- Whistle, Chime-. F. Parizek. No. 936,253; Oct. 5; Sp. p. 1343; Gaz. vol. 147; p. 207.
- Whistles, Electromagnetic means for operating air and other. H. H. Freeman. No. 937,590; Oct. 19; Sp. p. 4162; Gaz. vol. 147; p. 708.
- Wick-burner, Incandescent. J. Herzog. No. 942,035; Nov. 30; Sp. p. 7841; Gaz. vol. 148; p. 1321.
- Wick-trimmer. W. J. Lee. No. 916,881; Mar. 30; Sp. p. 6497; Gaz. vol. 140; p. 1160.
- Wick-trimming device. F. N. Buckman. No. 920,822; May 4; Sp. p. 1479; Gaz. vol. 142; p. 239.
- Wickerwork. E. M. Calef. No. 936,520; Oct. 12; Sp. p. 1952; Gaz. vol. 147; p. 322.
- Wigs, Parting foundation for. P. E. Tattoon. No. 941,744; Nov. 30; Sp. p. 7252; Gaz. vol. 148; p. 1223.
- Willow-stripping machine. C. C. Larsen. No. 940,260; Nov. 16; Sp. p. 4007; Gaz. vol. 148; p. 682.
- Winch, Portable. C. Wick. No. 927,200; July 6; Sp. p. 1035; Gaz. vol. 144; p. 167.
- Wind and stringed instrument, Combination. A. Herring. No. 915,293; Mar. 16; Sp. p. 3383; Gaz. vol. 140; p. 591.
- Wind-engine. E. W. Aller. No. 918,252; Apr. 13; Sp. p. 2634; Gaz. vol. 141; p. 467.
- Wind-indicating device for practice-shooting. C. B. Winder. No. 910,035; Jan. 19; Sp. p. 3229; Gaz. vol. 138; p. 595.
- Wind instruments, Tone-correcting means for brass. J. Lockhart. No. 935,626; Sept. 28; Sp. p. 5344; Gaz. vol. 146; p. 938.
- Wind-motor. F. W. Draper. No. 921,681; May 18; Sp. p. 3288; Gaz. vol. 142; p. 585.
- Wind-motor. C. Daub. No. 932,253; Aug. 24; Sp. p. 5373; Gaz. vol. 145; p. 949.
- Wind-motor. H. W. Smith. No. 943,901; Dec. 21; Sp. p. 4023; Gaz. vol. 149; p. 696.
- Wind-motor. R. F. E. Okrassa. No. 944,148; Dec. 21; Sp. p. 4546; Gaz. vol. 149; p. 780.
- Wind-power machine. J. Perry. No. 923,698; June 1; Sp. p. 1288; Gaz. vol. 143; p. 200.
- Wind-screen. E. K. Conover. No. 917,752; Apr. 13; Sp. p. 1567; Gaz. vol. 141; p. 296.
- Wind-screen. E. K. Conover. No. 935,190; Sept. 28; Sp. p. 4460; Gaz. vol. 146; p. 793.
- Wind-screen. G. H. Beaton. No. 936,853; Oct. 12; Sp. p. 2615; Gaz. vol. 147; p. 436.
- Wind-shield. H. C. Cranmer. No. 920,546; May 4; Sp. p. 920; Gaz. vol. 142; p. 148.
- Wind-shield. J. H. Sprague. No. 925,240; June 15; Sp. p. 4547; Gaz. vol. 143; p. 777.
- Wind-shield. J. H. Sprague. No. 933,496; Sept. 7; Sp. p. 1111; Gaz. vol. 146; p. 159.
- Wind-shield. E. Flagg. No. 934,152; Sept. 14; Sp. p. 2423; Gaz. vol. 146; p. 398.
- Wind-wheel. J. Daves. No. 909,764; Jan. 12; Sp. p. 2680; Gaz. vol. 138; p. 473.
- Wind-wheel. H. Schmit. No. 933,394; Sept. 7; Sp. p. 814; Gaz. vol. 146; p. 126.
- Windmill. A. Macris. No. 910,701; Jan. 26; Sp. p. 4646; Gaz. vol. 138; p. 844.
- Windmill. E. T. Parker. No. 911,752; Feb. 9; Sp. p. 1439; Gaz. vol. 139; p. 268.
- Windmill. G. F. Williamson. No. 916,240; Mar. 23; Sp. p. 5259; Gaz. vol. 140; p. 929.
- Windmill. T. O. Harstad. No. 917,942; Apr. 13; Sp. p. 1978; Gaz. vol. 141; p. 359.

*Alphabetical list of inventions—Continued.*

- Windmill. W. S. Pope. No. 918,364; Apr. 13; Sp. p. 2840; Gaz. vol. 141; p. 503.
- Windmill. E. Hards. No. 924,060; June 8; Sp. p. 2084; Gaz. vol. 143; p. 347.
- Windmill. C. R. White. No. 925,063; June 15; Sp. p. 4208; Gaz. vol. 143; p. 717.
- Windmill. J. Barker. No. 928,097; July 13; Sp. p. 2877; Gaz. vol. 144; p. 492.
- Windmill. N. and J. Wagner. No. 930,905; Aug. 10; Sp. p. 2644; Gaz. vol. 145; p. 453.
- Windmill. A. Ayers. No. 934,650; Sept. 21; Sp. p. 3384; Gaz. vol. 146; p. 589.
- Windmill. F. A. Preuss. No. 940,057; Nov. 16; Sp. p. 3569; Gaz. vol. 148; p. 610.
- Windmill and clutch therefor. F. W. Pierson. No. 930,794; Aug. 10; Sp. p. 2401; Gaz. vol. 145; p. 416.
- Windmill attachment. I. J. Folly. No. 909,175; Jan. 12; Sp. p. 1535; Gaz. vol. 138; p. 278.
- Windmill-governor. P. E. Anderson. No. 927,921; July 13; Sp. p. 2553; Gaz. vol. 144; p. 434.
- Windmill-governor. W. A. Fifield. No. 932,260; Aug. 24; Sp. p. 5583; Gaz. vol. 145; p. 951.
- Windmill-governor. L. M. Nelson. No. 934,689; Sept. 21; Sp. p. 3457; Gaz. vol. 146; p. 602.
- Windmill mechanism. I. C. Rust. No. 936,568; Oct. 12; Sp. p. 2046; Gaz. vol. 147; p. 338.
- Windmill-motor. V. J. La Bauve. No. 924,909; June 15; Sp. p. 3899; Gaz. vol. 143; p. 664.
- Windmill power-saver. J. R. Byrnes. No. 938,966; Nov. 2; Sp. p. 1119; Gaz. vol. 148; p. 179.
- Windmill-power, System of utilization of. H. C. Busby. No. 943,000; Dec. 14; Sp. p. 2093; Gaz. vol. 149; p. 359.
- Windmill-regulator. A. D. Dusenbery. No. 925,569; June 22; Sp. p. 5171; Gaz. vol. 143; p. 911.
- Windmill-regulator. M. S. Newcomer. No. 931,140; Aug. 17; Sp. p. 3203; Gaz. vol. 145; p. 559.
- Windmill-regulator, Automatic. C. C. Peterson. No. 941,647; Nov. 30; Sp. p. 7026; Gaz. vol. 148; p. 1189.
- Windmill-tower. W. Hopper. No. 939,504; Nov. 9; Sp. p. 2338; Gaz. vol. 148; p. 388.
- Windmills, Wind-wheel for. H. M. Wallace. No. 932,521; Aug. 31; Sp. p. 6112; Gaz. vol. 145; p. 1060.
- Winder, Mainspring-. A. F. Robbins. No. 916,197; Mar. 23; Sp. p. 5168; Gaz. vol. 140; p. 915.
- Winding and cleaning-silk and other fibers, Apparatus for. E. Dubini. No. 923,032; May 25; Sp. p. 6045; Gaz. vol. 142; p. 1052.
- Winding and doubling frames by means of a measuring-clock, Device for stopping. M. Ebeling. No. 934,053; Sept. 14; Sp. p. 2197; Gaz. vol. 146; p. 363.
- Winding and drying reel. S. M. McMurray. No. 919,922; Apr. 27; Sp. p. 6345; Gaz. vol. 141; p. 1084.
- Winding and rolling machine, Ball. A. G. Brewer. No. 923,762; June 1; Sp. p. 1431; Gaz. vol. 143; p. 222.
- Winding and spooling apparatus. J. Schärer-Nussbaumer. No. 920,185; May 4; Sp. p. 184; Gaz. vol. 142; p. 29.
- Winding apparatus, Yarn-. P. Läubli. No. 913,739; Mar. 2; Sp. p. 133; Gaz. vol. 140; p. 23.
- Winding, doubling, gassing, and like machine, Yarn or thread. J. Higginson, Jr., and H. Arundel. No. 941,319; Nov. 23; Sp. p. 6332; Gaz. vol. 144; p. 1059.
- Winding-engines, Controlling mechanism for. R. H. Nicholson. No. 929,871; Aug. 3; Sp. p. 527; Gaz. vol. 145; p. 85.
- Winding-frame, Automatic. F. Baum. No. 918,116; Apr. 13; Sp. p. 2353; Gaz. vol. 141; p. 421.
- Winding-indicator. J. C. Hawkins. No. 941,143; Nov. 23; Sp. p. 5959; Gaz. vol. 148; p. 1002.
- Winding-indicator. O. Ohlson. No. 942,659; Dec. 7; Sp. p. 1305; Gaz. vol. 149; p. 214.
- Winding-machine. P. Vindrier. No. 908,525; Jan. 5; Sp. p. 195; Gaz. vol. 138; p. 34.
- Winding-machine. B. Hurd. No. 912,681; Feb. 16; Sp. p. 3437; Gaz. vol. 139; p. 613.
- Winding-machine. S. W. Wardwell. No. 937,666; Oct. 19; Sp. p. 4294; Gaz. vol. 147; p. 732.
- Winding-machine. M. Pipling. No. 969,160; Nov. 2; Sp. p. 1521; Gaz. vol. 148; p. 247.
- Winding-machine. S. W. Wardwell. No. 940,489; Nov. 16; Sp. p. 4539; Gaz. vol. 148; p. 759.
- Winding-machine, Bobbin-. F. La Chapelle. No. 935,263; Sept. 28; Sp. p. 4600; Gaz. vol. 146; p. 818.
- Winding-machine, Edgewise-. H. L. Barnholdt. No. 917,401; Apr. 6; Sp. p. 897; Gaz. vol. 141; p. 155.
- Winding-machine, Edgewise-. J. J. Wood. No. 919,510; Apr. 27; Sp. p. 5498; Gaz. vol. 141; p. 945.
- Winding-machine guide-motion, Quill-. E. E. Bradley. No. 922,848; May 25; Sp. p. 5668; Gaz. vol. 142; p. 993.
- Winding-machine knitter, Cop-. S. J. Martin. No. 916,883; Mar. 30; Sp. p. 6499; Gaz. vol. 140; p. 1161.
- Winding-machine, Multiple. W. E., F. W., and J. T. Wright. No. 913,604; Feb. 23; Sp. p. 5335; Gaz. vol. 139; p. 945.
- Winding-machine, Thread-. M. Metz. No. 933,092; Sept. 7; Sp. p. 114; Gaz. vol. 146; p. 19.
- Winding mechanism, Bobbin-. T. G. Plant. No. 935,230; Sept. 28; Sp. p. 4531; Gaz. vol. 146; p. 807.
- Winding mechanism, Self-. A. D. Blodgett and F. S. Atkinson. No. 939,791; Nov. 9; Sp. p. 2969; Gaz. vol. 148; p. 488.
- Windlass. O. Kuehne. No. 914,582; Mar. 9; Sp. p. 1946; Gaz. vol. 140; p. 332.
- Windlass. W. J. Vail. No. 919,093; Apr. 20; Sp. p. 4411; Gaz. vol. 141; p. 771.
- Windlass. C. H. Richardson. No. 928,330; July 20; Sp. p. 3423; Gaz. vol. 144; p. 601.
- Windlass. J. S. Oram. No. 933,781; Sept. 14; Sp. p. 1670; Gaz. vol. 146; p. 276.
- Window. E. A. Lewis. No. 908,471; Jan. 5; Sp. p. 76; Gaz. vol. 138; p. 15.
- Window. A. C. Goddard. No. 908,856; Jan. 5; Sp. p. 878; Gaz. vol. 138; p. 139.
- Window. J. C. Kimsey. No. 909,094; Jan. 5; Sp. p. 1351; Gaz. vol. 138; p. 217.
- Window. A. J. Ellis. No. 911,813; Feb. 9; Sp. p. 1546; Gaz. vol. 130; p. 288.
- Window. J. Austin. No. 919,521; Apr. 27; Sp. p. 5520; Gaz. vol. 141; p. 948.
- Window. L. W. Penzer. No. 920,641; May 4; Sp. p. 1105; Gaz. vol. 142; p. 256.
- Window. C. Kaiser and J. C. Jurgensen. No. 920,876; May 4; Sp. p. 1607; Gaz. vol. 142; p. 256.
- Window. G. Costello, Jr. No. 923,628; June 1; Sp. p. 1154; Gaz. vol. 143; p. 147.
- Window. J. Cheborad. No. 925,294; June 15; Sp. p. 4638; Gaz. vol. 143; p. 792.
- Window. A. E. Gould. No. 926,735; July 6; Sp. p. 33; Gaz. vol. 144; p. 8.
- Window. N. Plouff. No. 929,108; July 27; Sp. p. 4979; Gaz. vol. 144; p. 886.
- Window. O. J. Ramshaw. No. 930,226; Aug. 3; Sp. p. 1236; Gaz. vol. 145; p. 204.
- Window. A. Straubhaar. No. 932,187; Aug. 24; Sp. p. 5451; Gaz. vol. 145; p. 928.
- Window. A. Kaselow. No. 934,185; Sept. 14; Sp. p. 2478; Gaz. vol. 146; p. 409.
- Window. W. L. Gillett. No. 935,199; Sept. 28; Sp. p. 4476; Gaz. vol. 146; p. 796.
- Window. H. Mortenson. No. 936,147; Oct. 5; Sp. p. 1154; Gaz. vol. 147; p. 175.
- Window. J. W. Cooper. No. 937,051; Oct. 19; Sp. p. 3014; Gaz. vol. 147; p. 529.
- Window. H. J. Davison. No. 937,580; Oct. 19; Sp. p. 4142; Gaz. vol. 147; p. 705.
- Window. J. Cooney. No. 941,310; Nov. 23; Sp. p. 6319; Gaz. vol. 148; p. 1057.
- Window and door screen. A. C. Davis. No. 928,366; July 20; Sp. p. 3483; Gaz. vol. 144; p. 615.
- Window and sash holding device. O. M. Edwards. No. 915,754; Mar. 23; Sp. p. 4353; Gaz. vol. 140; p. 774.
- Window and shutter lock. W. A. Jordan. No. 918,327; Apr. 13; Sp. p. 2770; Gaz. vol. 141; p. 491.
- Window attachment. W. Brown. No. 917,747; Apr. 13; Sp. p. 1553; Gaz. vol. 141; p. 294.
- Window, Automatic. J. Austin. No. 919,520; Apr. 27; Sp. p. 5518; Gaz. vol. 141; p. 948.
- Window-balcony. J. P. Roger. No. 924,189; June 8; Sp. p. 2385; Gaz. vol. 143; p. 391.
- Window-balcony, Portable. T. Hull. No. 938,382; Oct. 26; Sp. p. 5553; Gaz. vol. 147; p. 993.
- Window, Bay-. L. G. Quackenboss. No. 912,617; Feb. 16; Sp. p. 3305; Gaz. vol. 139; p. 592.
- Window-head fastener. T. J. Daniel. No. 916,113; Mar. 23; Sp. p. 5018; Gaz. vol. 140; p. 889.
- Window-head fastener. C. Cassleman. No. 943,062; Dec. 14; Sp. p. 2250; Gaz. vol. 149; p. 382.
- Window-blind. G. P. Mitchell. No. 916,752; Mar. 30; Sp. p. 6254; Gaz. vol. 140; p. 1119.
- Window box or casing. N. P. Sjöbring. No. 911,455; Feb. 2; Sp. p. 823; Gaz. vol. 139; p. 144.
- Window-bracket. J. W. Flynn. No. 928,190; July 13; Sp. p. 3081; Gaz. vol. 144; p. 524.
- Window-casing-pocket closure. H. Hougham. No. 925,188; June 15; Sp. p. 4455; Gaz. vol. 143; p. 760.
- Window-chair. J. M. J. Skelly. No. 929,034; July 27; Sp. p. 4822; Gaz. vol. 144; p. 862.
- Window chair or platform, Safety. J. P. Lundquist. No. 914,852; Mar. 9; Sp. p. 2521; Gaz. vol. 140; p. 421.
- Window-cleaner. H. L. Bailey. No. 911,194; Feb. 2; Sp. p. 335; Gaz. vol. 139; p. 59.
- Window-cleaner. H. Spitz and L. Heffner. No. 917,178; Apr. 6; Sp. p. 438; Gaz. vol. 141; p. 77.
- Window-cleaner. W. H. Minier. No. 924,685; June 15; Sp. p. 3423; Gaz. vol. 143; p. 589.
- Window-cleaner. I. L. Clift. No. 929,391; July 27; Sp. p. 5600; Gaz. vol. 144; p. 982.
- Window-cleaner. M. Keith. No. 929,860; Aug. 3; Sp. p. 507; Gaz. vol. 145; p. 81.
- Window-cleaner. J. Null. No. 934,007; Sept. 14; Sp. p. 2114; Gaz. vol. 146; p. 349.
- Window-cleaner. T. J. Rochford. No. 944,245; Dec. 21; Sp. p. 4729; Gaz. vol. 149; p. 810.
- Window-cleaner and safety-platform. J. S. Gilkeson. No. 920,452; May 4; Sp. p. 734; Gaz. vol. 142; p. 117.
- Window cleaner and wiper, Combined. C. E. Hening. No. 909,793; Jan. 12; Sp. p. 2740; Gaz. vol. 138; p. 482.
- Window cleaner, Car-. A. Mulligan. No. 909,010; Jan. 5; Sp. p. 1188; Gaz. vol. 138; p. 189.
- Window-cleaner safety-support. H. K. Whitner. No. 917,506; Apr. 6; Sp. p. 1074; Gaz. vol. 141; p. 188.
- Window-cleaner support. H. M. Smith. No. 917,175; Apr. 6; Sp. p. 433; Gaz. vol. 141; p. 76.
- Window-cleaning apparatus. C. F. Prickett. No. 942,743; Dec. 7; Sp. p. 1471; Gaz. vol. 149; p. 241.
- Window-cleaning device. A. T. Bolland, J. Gall, and J. F. Dester. No. 914,106; Mar. 2; Sp. p. 969; Gaz. vol. 140; p. 152.



*Alphabetical list of inventions—Continued.*

- Window-cleaning device. H. G. Vaughan. No. 916,635; Mar. 30; Sp. p. 6055; Gaz. vol. 140; p. 1086.
- Window-cleaning device. S. Jones. No. 930,185; Aug. 3; Sp. p. 1182; Gaz. vol. 145; p. 192.
- Window construction. N. Poulson. No. 910,857; Jan. 26; Sp. p. 4953; Gaz. vol. 138; p. 895.
- Window construction, Fireproof. J. C. Specht. No. 918,213; Apr. 13; Sp. p. 2546; Gaz. vol. 141; p. 454.
- Window construction, Metal-. G. H. Forsyth. No. 941,018; Nov. 23; Sp. p. 5688; Gaz. vol. 148; p. 360.
- Window-covering. J. E. Medland and L. E. Capps. No. 932,627; Aug. 31; Sp. p. 6359; Gaz. vol. 145; p. 1097.
- Window-fastener. E. Bollbach. No. 919,311; Apr. 27; Sp. p. 5049; Gaz. vol. 141; p. 877.
- Window-fastener. C. H. Gedel. No. 922,414; May 18; Sp. p. 4755; Gaz. vol. 142; p. 824.
- Window-fastener. W. Agin. No. 925,414; June 15; Sp. p. 4855; Gaz. vol. 143; p. 829.
- Window-fastener. N. Dion. No. 943,398; Dec. 14; Sp. p. 2926; Gaz. vol. 149; p. 493.
- Window fastener, Show-. J. Windle. No. 909,267; Jan. 12; Sp. p. 1704; Gaz. vol. 138; p. 307.
- Window fastener, Show-. J. Windle. No. 909,268; Jan. 12; Sp. p. 1705; Gaz. vol. 138; p. 307.
- Window-fastening device. J. L. Mallory. No. 913,833; Mar. 2; Sp. p. 317; Gaz. vol. 140; p. 55.
- Window-fastening device. L. H. Vogel. No. 922,644; May 25; Sp. p. 6244; Gaz. vol. 142; p. 928.
- Window-fastening device, Storm-. C. W. Coffin. No. 911,477; Feb. 2; Sp. p. 855; Gaz. vol. 139; p. 151.
- Window, Fireproof. R. E. Byrne. No. 913,197; Feb. 23; Sp. p. 4486; Gaz. vol. 139; p. 803.
- Window-fixture. N. M. Haney. No. 913,495; Feb. 23; Sp. p. 5085; Gaz. vol. 139; p. 908.
- Window-fixture. T. J. Corken. No. 924,431; June 8; Sp. p. 2883; Gaz. vol. 143; p. 471.
- Window-fixture. E. Loehr. No. 925,003; June 15; Sp. p. 4102; Gaz. vol. 143; p. 697.
- Window-fixture. A. F. Girouard and F. A. Perron. No. 925,893; June 22; Sp. p. 5891; Gaz. vol. 143; p. 1018.
- Window-fixture. J. Grizzell. No. 934,308; Sept. 14; Sp. p. 2707; Gaz. vol. 146; p. 449.
- Window, Flexible. W. E. Walsh. No. 928,349; July 20; Sp. p. 3450; Gaz. vol. 144; p. 608.
- Window-frame. C. S. Moore. No. 911,742; Feb. 9; Sp. p. 1423; Gaz. vol. 139; p. 265.
- Window-frame. J. Kahn and T. H. Kane. No. 933,908; Sept. 14; Sp. p. 1936; Gaz. vol. 146; p. 318.
- Window-frame. A. W. Krieger. No. 940,029; Nov. 16; Sp. p. 3471; Gaz. vol. 148; p. 600.
- Window-frame. C. Singer. No. 946,485; Nov. 16; Sp. p. 4532; Gaz. vol. 148; p. 758.
- Window frame and sash. P. G. Wiegert. No. 911,351; Feb. 2; Sp. p. 643; Gaz. vol. 139; p. 110.
- Window frame and sash. C. J. Holzer. No. 934,530; Sept. 21; Sp. p. 3136; Gaz. vol. 146; p. 547.
- Window-frame, Concrete. A. Hitt. No. 937,700; Oct. 19; Sp. p. 4375; Gaz. vol. 147; p. 743.
- Window-frame glazing-strip. T. A. Williams. No. 915,142; Mar. 16; Sp. p. 3091; Gaz. vol. 140; p. 542.
- Window-glasses, Safeguard for. E. B. Bave. No. 942,955; Dec. 14; Sp. p. 1986; Gaz. vol. 149; p. 344.
- Window-grate, Adjustable. S. Jablonovsky. No. 942,502; Dec. 7; Sp. p. 1001; Gaz. vol. 149; p. 161.
- Window gravity-lock. A. C. Goddard. No. 908,857; Jan. 5; Sp. p. 880; Gaz. vol. 138; p. 140.
- Window-guard. I. Raskin and J. Deretchin. No. 917,358; Apr. 6; Sp. p. 815; Gaz. vol. 141; p. 140.
- Window-guard. M. R. Dennhardt. No. 923,153; June 1; Sp. p. 72; Gaz. vol. 143; p. 11.
- Window-guard. F. J. Rush. No. 936,041; Oct. 5; Sp. p. 928; Gaz. vol. 147; p. 140.
- Window-guard. J. Treu and K. Schaefer. No. 944,834; Dec. 28; Sp. p. 6050; Gaz. vol. 149; p. 1041.
- Window-holder and weather-strip. J. Davis and J. M. Lutz. No. 919,426; Apr. 27; Sp. p. 5296; Gaz. vol. 141; p. 916.
- Window-kitchen. A. Soper. No. 942,979; Dec. 14; Sp. p. 2032; Gaz. vol. 149; p. 352.
- Window lift and lock, Combined. I. Johnson. No. 925,914; June 22; Sp. p. 5933; Gaz. vol. 143; p. 1024.
- Window-lifting mechanism. L. J. Berg. No. 932,370; Aug. 24; Sp. p. 5784; Gaz. vol. 145; p. 988.
- Window-lock. W. E. De Voe. No. 912,295; Feb. 16; Sp. p. 2623; Gaz. vol. 139; p. 482.
- Window-lock. C. H. Caler. No. 912,805; Feb. 16; Sp. p. 3730; Gaz. vol. 139; p. 656.
- Window-lock. A. G. Neumeister. No. 919,750; Apr. 27; Sp. p. 5972; Gaz. vol. 141; p. 1026.
- Window-lock. J. E. Hissong. No. 922,899; May 25; Sp. p. 5793; Gaz. vol. 142; p. 1010.
- Window-lock. H. E. Packer. No. 923,696; June 1; Sp. p. 1285; Gaz. vol. 143; p. 200.
- Window-lock. N. B. Denison. No. 934,145; Sept. 14; Sp. p. 2412; Gaz. vol. 146; p. 395.
- Window-lock. I. C. Scudder. No. 944,825; Dec. 28; Sp. p. 6033; Gaz. vol. 149; p. 1038.
- Window lock and lift. R. T. Axe. No. 942,851; Dec. 7; Sp. p. 1707; Gaz. vol. 149; p. 277.
- Window-lock, Automatic. A. N. Davis. No. 912,817; Feb. 16; Sp. p. 3746; Gaz. vol. 139; p. 660.
- Window-lock, Double automatic. G. and J. A. Buttress. No. 935,584; Sept. 28; Sp. p. 5267; Gaz. vol. 146; p. 923.
- Window-lock, Self-locking. T. L. Thomas and W. D. Lewis. No. 919,653; Apr. 27; Sp. p. 5781; Gaz. vol. 141; p. 994.
- Window, Metallic. T. Lee. No. 942,269; Dec. 7; Sp. p. 511; Gaz. vol. 149; p. 80.
- Window-opener. H. Morris. No. 944,628; Dec. 28; Sp. p. 5605; Gaz. vol. 149; p. 972.
- Window opening and closing device, Automatic. L. O. Kemp. No. 918,163; Apr. 13; Sp. p. 2435; Gaz. vol. 141; p. 436.
- Window operating and locking mechanism. E. P. Sperry. No. 929,801; Aug. 3; Sp. p. 368; Gaz. vol. 145; p. 61.
- Window-operating mechanism, Swinging-. J. S. Gourlay. No. 939,412; Nov. 9; Sp. p. 2157; Gaz. vol. 148; p. 358.
- Window or shutter operating mechanism. E. Van Noorden. No. 931,239; Aug. 17; Sp. p. 3419; Gaz. vol. 145; p. 593.
- Window-pane fastener. S. Roush. No. 911,164; Feb. 2; Sp. p. 281; Gaz. vol. 139; p. 49.
- Window-pane fastener. H. G. Frazier. No. 912,302; Feb. 16; Sp. p. 2637; Gaz. vol. 139; p. 484.
- Window-pane fastener. J. B. La Venture. No. 922,785; May 25; Sp. p. 5536; Gaz. vol. 142; p. 973.
- Window-pane fastener. A. E. Cherry. No. 923,359; July 20; Sp. p. 3469; Gaz. vol. 144; p. 612.
- Window-pane fastener. S. J. Drago. No. 929,406; July 27; Sp. p. 5628; Gaz. vol. 144; p. 987.
- Window-pane fastener. D. D. Crouse. No. 941,764; Nov. 30; Sp. p. 7302; Gaz. vol. 148; p. 1230.
- Window-pane holder. J. H. Miller. No. 926,348; June 29; Sp. p. 6832; Gaz. vol. 143; p. 1202.
- Window-pane joint. N. Fells. No. 910,655; Jan. 26; Sp. p. 4570; Gaz. vol. 138; p. 831.
- Window-protector. J. M. Triggs. No. 916,803; Mar. 30; Sp. p. 6351; Gaz. vol. 140; p. 1135.
- Window-receptacle. C. E. Rogers. No. 944,212; Dec. 21; Sp. p. 4662; Gaz. vol. 149; p. 799.
- Window safety device. J. Fishman. No. 912,458; Feb. 16; Sp. p. 2960; Gaz. vol. 139; p. 536.
- Window-screen. J. H. Cornelson. No. 910,910; Jan. 26; Sp. p. 5060; Gaz. vol. 138; p. 911.
- Window-screen. A. H. Mix. No. 911,318; Feb. 2; Sp. p. 586; Gaz. vol. 139; p. 100.
- Window-screen. A. T. Moore. No. 911,741; Feb. 9; Sp. p. 1422; Gaz. vol. 139; p. 264.
- Window-screen. F. F. Hultgreen. No. 912,849; Feb. 16; Sp. p. 3798; Gaz. vol. 139; p. 668.
- Window-screen. W. F. Gibbard. No. 913,722; Mar. 2; Sp. p. 94; Gaz. vol. 140; p. 17.
- Window-screen. G. Ayres. No. 916,253; Mar. 23; Sp. p. 5277; Gaz. vol. 140; p. 933.
- Window-screen. L. L. Cowell and G. Unser. No. 916,389; Mar. 23; Sp. p. 5519; Gaz. vol. 140; p. 980.
- Window-screen. C. H. McGee. No. 917,106; Apr. 6; Sp. p. 291; Gaz. vol. 141; p. 53.
- Window-screen. P. F. Dowd. No. 917,562; Apr. 6; Sp. p. 1174; Gaz. vol. 141; p. 205.
- Window-screen. A. E. Paddison. No. 918,585; Apr. 20; Sp. p. 3312; Gaz. vol. 141; p. 602.
- Window-screen. M. H. Rupert. No. 920,659; May 4; Sp. p. 1146; Gaz. vol. 142; p. 186.
- Window-screen. W. H. Millis. No. 924,258; June 8; Sp. p. 2550; Gaz. vol. 143; p. 415.
- Window-screen. W. A. Loper. No. 928,526; July 20; Sp. p. 3798; Gaz. vol. 144; p. 666.
- Window-screen. O. L. Schanbacher. No. 930,237; Aug. 3; Sp. p. 1260; Gaz. vol. 145; p. 208.
- Window-screen. D. M. Henry. No. 931,421; Aug. 17; Sp. p. 3803; Gaz. vol. 145; p. 657.
- Window-screen. R. E. L. Parnell. No. 933,782; Sept. 14; Sp. p. 1674; Gaz. vol. 146; p. 277.
- Window-screen. E. Graupner. No. 933,975; Sept. 14; Sp. p. 2061; Gaz. vol. 146; p. 340.
- Window-screen. F. C. Ferguson. No. 934,059; Sept. 14; Sp. p. 2212; Gaz. vol. 146; p. 365.
- Window-screen. A. R. Rhoades. No. 934,357; Sept. 14; Sp. p. 2797; Gaz. vol. 146; p. 466.
- Window-screen. H. Higgin. No. 934,610; Sept. 21; Sp. p. 3299; Gaz. vol. 146; p. 574.
- Window-screen. A. B. Hill. No. 936,895; Oct. 12; Sp. p. 2694; Gaz. vol. 147; p. 449.
- Window-screen. E. T. Peters. No. 937,642; Oct. 19; Sp. p. 4255; Gaz. vol. 147; p. 725.
- Window-screen. J. H. Cornelson. No. 938,641; Nov. 2; Sp. p. 434; Gaz. vol. 148; p. 67.
- Window-screen. H. B. Wilson. No. 939,780; Nov. 9; Sp. p. 2739; Gaz. vol. 148; p. 484.
- Window-screen. J. L. Wilgis. No. 940,569; Nov. 16; Sp. p. 4723; Gaz. vol. 148; p. 786.
- Window-screen construction. J. G. Hudspeth. No. 921,405; May 11; Sp. p. 2704; Gaz. vol. 142; p. 464.
- Window-screen fly-trap. C. E. Bowen. No. 910,492; Jan. 26; Sp. p. 4226; Gaz. vol. 138; p. 777.
- Window-screen, Metal. H. W. Johnson. No. 918,676; Apr. 20; Sp. p. 3569; Gaz. vol. 141; p. 634.
- Window-screen, Roller. C. P. Flora. No. 912,104; Feb. 9; Sp. p. 2215; Gaz. vol. 139; p. 383.
- Window-screen, Roller. E. H. Gibson and A. D. Bevier. No. 933,245; Sept. 7; Sp. p. 499; Gaz. vol. 146; p. 76.
- Window self-closing device. E. M. Stephens. No. 932,509; Aug. 31; Sp. p. 6093; Gaz. vol. 145; p. 1056.
- Window-shell. F. H. Gnekow. No. 933,643; Sept. 7; Sp. p. 1381; Gaz. vol. 146; p. 207.
- Window-shell, Metal. C. S. Thorne. No. 932,190; Aug. 24; Sp. p. 5457; Gaz. vol. 145; p. 929.

*Alphabetical list of inventions—Continued.*

- Window-spring. J. Hagerty. No. 943,147; Dec. 14; Sp. p. 2417; Gaz. vol. 149; p. 410.  
 Window-stiles, Machine for cutting. E. L. Ziegler. No. 916,520; Mar. 30; Sp. p. 5842; Gaz. vol. 140; p. 1048.  
 Window-stop. R. F. Nichols. No. 915,877; Mar. 23; Sp. p. 4571; Gaz. vol. 140; p. 812.  
 Window, Store-. W. E. W. Cherry. No. 943,812; Dec. 21; Sp. p. 3831; Gaz. vol. 149; p. 666.  
 Window structure. R. Linkletter. No. 927,985; July 13; Sp. p. 2669; Gaz. vol. 144; p. 454.  
 Window, Swinging. H. J. Schlacks. No. 912,623; Feb. 16; Sp. p. 3315; Gaz. vol. 139; p. 594.  
 Window, Swinging. C. Cassleman. No. 943,061; Dec. 14; Sp. p. 2248; Gaz. vol. 149; p. 381.  
 Window-tent. W. E. Walsh. No. 930,002; Aug. 3; Sp. p. 509; Gaz. vol. 145; p. 129.  
 Window-tent. J. G. Allen. No. 936,846; Oct. 12; Sp. p. 2597; Gaz. vol. 147; p. 433.  
 Window, Ventilating-. A. F. Smith. No. 923,450; June 1; Sp. p. 765; Gaz. vol. 143; p. 113.  
 Window ventilating device. H. Krug. No. 911,660; Feb. 9; Sp. p. 1272; Gaz. vol. 139; p. 238.  
 Window ventilating device. C. V. Walker. No. 937,899; Oct. 26; Sp. p. 4791; Gaz. vol. 147; p. 828.  
 Window ventilating device, Store-. B. F. Beck. No. 927,317; July 6; Sp. p. 1248; Gaz. vol. 144; p. 205.  
 Window-ventilator. W. Lindemann. No. 921,854; May 18; Sp. p. 3645; Gaz. vol. 142; p. 642.  
 Window-ventilator. C. O. Meurk. No. 924,365; June 8; Sp. p. 2765; Gaz. vol. 143; p. 451.  
 Window-ventilator. J. A. Stevens. No. 926,617; June 29; Sp. p. 7320; Gaz. vol. 143; p. 1292.  
 Window-ventilator. W. G. Hintz and W. E. Althouse. No. 932,861; Aug. 31; Sp. p. 6834; Gaz. vol. 145; p. 1173.  
 Window-ventilator. W. H. Dean. No. 933,421; Sept. 7; Sp. p. 868; Gaz. vol. 146; p. 135.  
 Window-ventilator. G. W. Stein. No. 936,183; Oct. 5; Sp. p. 1226; Gaz. vol. 147; p. 185.  
 Window-ventilator. D. O. Davis. No. 937,205; Oct. 19; Sp. p. 3334; Gaz. vol. 147; p. 580.  
 Window-washer. W. H. Bebout. No. 926,973; July 6; Sp. p. 554; Gaz. vol. 144; p. 90.  
 Window with wings adapted to be opened outward and inward. C. A. Walchner. No. 926,522; June 29; Sp. p. 7133; Gaz. vol. 143; p. 1260.  
 Windows, &c., Antirattler for. R. E. Wilkinson. No. 918,625; Apr. 20; Sp. p. 3414; Gaz. vol. 141; p. 616.  
 Windows, &c., Apparatus for cleaning. F. A. Wimble. No. 925,788; June 22; Sp. p. 5663; Gaz. vol. 143; p. 982.  
 Windows, Device for cleaning the outside of. J. Edman. No. 940,135; Nov. 16; Sp. p. 3743; Gaz. vol. 148; p. 638.  
 Windows, Means for warming show-. J. J. Davis. No. 923,149; June 1; Sp. p. 66; Gaz. vol. 143; p. 10.  
 Wines under pressure, Apparatus for fermentation and decantation of sparkling. E. Charvat. No. 927,944; July 13; Sp. p. 2596; Gaz. vol. 144; p. 442.  
 Wing-sweep. H. P. Jordan. No. 913,505; Feb. 23; Sp. p. 5105; Gaz. vol. 139; p. 912.  
 Winker-brace. G. L. Forman. No. 911,966; Feb. 9; Sp. p. 1923; Gaz. vol. 139; p. 338.  
 Wiper. A. Moseke. No. 916,755; Mar. 30; Sp. p. 6262; Gaz. vol. 140; p. 1120.  
 Wire and cable machine automatic measuring and stop mechanism. I. A. Ryan. No. 912,176; Feb. 9; Sp. p. 2341; Gaz. vol. 139; p. 405.  
 Wire and making the same, Iron. J. C. Fraley. No. 931,856; Aug. 24; Sp. p. 4722; Gaz. vol. 145; p. 818.  
 Wire and metal cleaning bath. J. C. Beneker. No. 914,916; Mar. 9; Sp. p. 2632; Gaz. vol. 140; p. 441.  
 Wire and rod coiling and cooling device. J. Remmen. No. 937,551; Oct. 19; Sp. p. 4094; Gaz. vol. 147; p. 696.  
 Wire and wire-fabric stretcher. R. W. Sibley. No. 942,016; Nov. 30; Sp. p. 7809; Gaz. vol. 148; p. 1315.  
 Wire attachment, Ground-. C. W. Messner. No. 920,364; May 4; Sp. p. 557; Gaz. vol. 142; p. 89.  
 Wire, Barbed. V. Hoxie. No. 943,413; Dec. 14; Sp. p. 2958; Gaz. vol. 149; p. 499.  
 Wire basket. E. R. Franklin. No. 920,313; May 4; Sp. p. 466; Gaz. vol. 142; p. 72.  
 Wire basket. J. B. Porter and E. B. Jenkins. No. 936,736; Oct. 12; Sp. p. 2387; Gaz. vol. 147; p. 397.  
 Wire bed-bottom, Woven-. G. Boehm. No. 923,006; May 25; Sp. p. 5984; Gaz. vol. 142; p. 1044.  
 Wire-bender. J. S. Pratt. No. 931,480; Aug. 17; Sp. p. 3917; Gaz. vol. 145; p. 676.  
 Wire-bender. L. D. Danforth. No. 942,440; Dec. 7; Sp. p. 844; Gaz. vol. 149; p. 138.  
 Wire-bending device. F. Farmer. No. 921,819; May 18; Sp. p. 3553; Gaz. vol. 142; p. 630.  
 Wire-block guard. J. H. Reece. No. 909,117; Jan. 5; Sp. p. 1414; Gaz. vol. 138; p. 226.  
 Wire-blocks, Mechanism for operating. J. H. Reece. No. 944,345; Dec. 28; Sp. p. 4948; Gaz. vol. 149; p. 872.  
 Wire-bound box. C. C. Mengel. No. 927,261; July 6; Sp. p. 1155; Gaz. vol. 144; p. 188.  
 Wire cabinet and measuring-table, Screen-. N. W. Clouse. No. 940,236; Nov. 16; Sp. p. 3959; Gaz. vol. 148; p. 673.  
 Wire cable. G. B. Smith. No. 916,048; Mar. 23; Sp. p. 4897; Gaz. vol. 140; p. 867.  
 Wire-chain-making machine. M. Fessler. No. 943,110; Dec. 14; Sp. p. 2342; Gaz. vol. 149; p. 397.  
 Wire-clamp. S. Gibson. No. 908,842; Nov. 2; Sp. p. 839; Gaz. vol. 148; p. 135.  
 Wire clamp or support. O. F. Scholz. No. 929,026; July 27; Sp. p. 4810; Gaz. vol. 144; p. 860.  
 Wire-cloth rack. W. S. Maxey. No. 927,570; July 13; Sp. p. 1770; Gaz. vol. 144; p. 316.  
 Wire-coating machine. G. H. Rupley. No. 919,470; Apr. 27; Sp. p. 3411; Gaz. vol. 141; p. 932.  
 Wire-coil-making machine. J. F. Marsolais. No. 924,425; May 11; Sp. p. 2740; Gaz. vol. 142; p. 471.  
 Wire coiling and weaving machine. M. B. Lloyd. No. 933,476; Sept. 7; Sp. p. 1011; Gaz. vol. 146; p. 152.  
 Wire-connector. J. M. Sahlin. No. 909,943; Jan. 19; Sp. p. 3048; Gaz. vol. 138; p. 565.  
 Wire-connector. A. Schmidt. No. 915,046; Mar. 9; Sp. p. 2854; Gaz. vol. 140; p. 453.  
 Wire-connector. T. Ballenger. No. 916,653; Mar. 30; Sp. p. 6088; Gaz. vol. 140; p. 1091.  
 Wire-connector. L. C. Callahan and P. W. Eskridge. No. 924,426; June 8; Sp. p. 2876; Gaz. vol. 143; p. 470.  
 Wire-connector, Electric-. F. More. No. 922,309; May 18; Sp. p. 4537; Gaz. vol. 142; p. 788.  
 Wire-connector, Line-. J. S. Pratt. No. 934,352; Sept. 14; Sp. p. 2787; Gaz. vol. 146; p. 464.  
 Wire-covering machine. W. H. Taylor. No. 906,709; Jan. 12; Sp. p. 2571; Gaz. vol. 138; p. 455.  
 Wire-covering machine, Magnet-. A. Beutler. No. 908,539; Jan. 5; Sp. p. 227; Gaz. vol. 138; p. 38.  
 Wire-covering-machine tension drum. D. Noble. No. 919,761; Apr. 27; Sp. p. 5973; Gaz. vol. 141; p. 1026.  
 Wire-crimping machine. J. S. Barnes. No. 909,738; Jan. 12; Sp. p. 2634; Gaz. vol. 138; p. 465.  
 Wire-crimping machine, Meshed-. A. Shuman. No. 936,673; Oct. 12; Sp. p. 2261; Gaz. vol. 147; p. 376.  
 Wire die safety appliance. J. H. Reece. No. 929,985; Aug. 3; Sp. p. 774; Gaz. vol. 145; p. 123.  
 Wire-drawing apparatus. J. Stratton and E. A. Claremont. No. 931,971; Aug. 24; Sp. p. 4990; Gaz. vol. 145; p. 855.  
 Wire-drawing machine. H. L. Thompson. No. 935,335; Sept. 28; Sp. p. 4756; Gaz. vol. 146; p. 842.  
 Wire-drawing machine. H. L. Thompson. No. 935,336; Sept. 28; Sp. p. 4758; Gaz. vol. 146; p. 842.  
 Wire-drawing machine. H. L. Thompson. No. 935,564; Sept. 28; Sp. p. 5223; Gaz. vol. 146; p. 917.  
 Wire-drawing-machine inverted drum. J. A. Horton. No. 911,305; Feb. 2; Sp. p. 557; Gaz. vol. 139; p. 95.  
 Wire-drawing, Plate-stand for. P. Vanderauwera. No. 922,979; May 25; Sp. p. 5939; Gaz. vol. 142; p. 1036.  
 Wire fabric. O. R. Hunt. No. 908,773; Jan. 5; Sp. p. 724; Gaz. vol. 138; p. 113.  
 Wire fabric. O. R. Hunt. No. 908,774; Jan. 5; Sp. p. 725; Gaz. vol. 138; p. 113.  
 Wire fabric. W. W. Worcester. No. 908,827; Jan. 5; Sp. p. 828; Gaz. vol. 138; p. 129.  
 Wire fabric for bed-springs and couches. B. H. Jones. No. 935,308; Sept. 28; Sp. p. 4687; Gaz. vol. 146; p. 833.  
 Wire fabric, Interlocking look for. G. B. Smith. No. 933,130; Sept. 7; Sp. p. 193; Gaz. vol. 146; p. 33.  
 Wire-fabric machine. W. Grimm and W. F. Drexler, Jr. No. 923,645; June 1; Sp. p. 1183; Gaz. vol. 143; p. 182.  
 Wire-fabric machine. J. L. Claudin. No. 923,771; June 1; Sp. p. 1462; Gaz. vol. 143; p. 224.  
 Wire-fabric machine. W. F. Drexler, Jr. No. 930,944; Aug. 10; Sp. p. 2720; Gaz. vol. 145; p. 465.  
 Wire fabric, Machine for making. E. W. Cornell. No. 930,159; Aug. 3; Sp. p. 1130; Gaz. vol. 145; p. 184.  
 Wire fabric, Making coiled-. M. B. Lloyd. No. 933,475; Sept. 7; Sp. p. 1004; Gaz. vol. 146; p. 152.  
 Wire-fabric-making device. F. H. Hamblin. No. 936,625; Oct. 12; Sp. p. 2173; Gaz. vol. 147; p. 359.  
 Wire-fabric-making machine. A. L. Kitzelman. No. 925,639; June 22; Sp. p. 5314; Gaz. vol. 143; p. 934.  
 Wire fabrics, Apparatus for weaving tubular. P. J. Martin. No. 922,438; May 18; Sp. p. 4811; Gaz. vol. 142; p. 832.  
 Wire-fence clutch. E. Shultz. No. 912,903; Feb. 16; Sp. p. 3687; Gaz. vol. 139; p. 685.  
 Wire-forming machine. F. Deering. No. 911,950; Feb. 9; Sp. p. 1808; Gaz. vol. 139; p. 333.  
 Wire-frame machine. A. Piasek and H. Cohn. No. 927,163; July 6; Sp. p. 960; Gaz. vol. 144; p. 156.  
 Wire frames, Making. G. K. Rix. No. 933,342; Sept. 7; Sp. p. 696; Gaz. vol. 146; p. 108.  
 Wire-gate fastener. J. W. van Newkirk. No. 915,511; Mar. 16; Sp. p. 3808; Gaz. vol. 140; p. 662.  
 Wire-glass articles, Producing. J. L. Arbogast. No. 916,250; Mar. 23; Sp. p. 5273; Gaz. vol. 140; p. 932.  
 Wire-gripper. J. H. Reece. No. 922,814; May 25; Sp. p. 5598; Gaz. vol. 142; p. 982.  
 Wire-handling tool. M. Totten. No. 932,650; Aug. 31; Sp. p. 6402; Gaz. vol. 145; p. 1105.  
 Wire-hanger. F. L. Sessions. No. 936,370; Oct. 12; Sp. p. 1612; Gaz. vol. 147; p. 273.  
 Wire hanger for magazines, books, &c. J. C. Mick. No. 930,775; Aug. 10; Sp. p. 2368; Gaz. vol. 145; p. 410.  
 Wire-hat-frame-making machine. M. Yaeger. No. 937,744; Oct. 19; Sp. p. 4468; Gaz. vol. 147; p. 757.  
 Wire heddle. E. A. Hartz. No. 930,857; Aug. 10; Sp. p. 2534; Gaz. vol. 145; p. 437.  
 Wire-hoop-forming apparatus. A. J. Spicer. No. 931,970; Aug. 24; Sp. p. 4988; Gaz. vol. 145; p. 854.  
 Wire-joints, Tool for forming. A. B. Frobasco. No. 940,823; Nov. 23; Sp. p. 5283; Gaz. vol. 148; p. 896.  
 Wire-joints, Tool for twisting. C. E. Cook. No. 919,323; Apr. 27; Sp. p. 5075; Gaz. vol. 141; p. 881.



*Alphabetical list of inventions—Continued.*

- Wire lathing. W. J. Herald. No. 928,196; July 13; Sp. p. 3089; Gaz. vol. 144; p. 526.
- Wire-lock. N. C. L. Pedersen and H. C. Hansen. No. 913,157; Feb. 23; Sp. p. 4398; Gaz. vol. 139; p. 795.
- Wire-netting machine for making. J. Matthews. No. 932,156; Aug. 24; Sp. p. 5379; Gaz. vol. 145; p. 917.
- Wire-netting stretcher. H. J. Byrnes. No. 936,600; Oct. 12; Sp. p. 2110; Gaz. vol. 147; p. 350.
- Wire or cables for electric or other purposes, Apparatus for the manufacture of lead-incased. C. Tatham. No. 911,459; Feb. 2; Sp. p. 829; Gaz. vol. 139; p. 145.
- Wire or cord tightener. E. W. Cokeley. No. 930,533; Aug. 10; Sp. p. 1880; Gaz. vol. 145; p. 332.
- Wire-package. H. W. Struss. No. 943,202; Dec. 14; Sp. p. 2515; Gaz. vol. 149; p. 426.
- Wire-polishing machine. H. Janssen. No. 926,002; June 22; Sp. p. 6089; Gaz. vol. 143; p. 1053.
- Wire-post-making machine. H. E. Schnabel. No. 937,474; Oct. 19; Sp. p. 3932; Gaz. vol. 147; p. 669.
- Wire receptacle. L. H. Riddle. No. 926,896; July 6; Sp. p. 395; Gaz. vol. 144; p. 64.
- Wire-reel. A. H. Doyle. No. 913,472; Feb. 23; Sp. p. 5040; Gaz. vol. 139; p. 901.
- Wire reel and bundle remover. S. A. McCullough. No. 943,701; Dec. 21; Sp. p. 3606; Gaz. vol. 149; p. 627.
- Wire-reel and mounting therefor. F. P. Murphey. No. 939,616; Nov. 9; Sp. p. 2590; Gaz. vol. 148; p. 426.
- Wire reels, Automatic mechanism for barbs. H. M. Cosey. No. 932,420; Aug. 24; Sp. p. 5877; Gaz. vol. 145; p. 1003.
- Wire-reeling machine. H. F. Villwock, Jr. No. 914,998; Mar. 9; Sp. p. 2763; Gaz. vol. 140; p. 466.
- Wire rope. T. Gore. No. 922,417; May 18; Sp. p. 4760; Gaz. vol. 142; p. 825.
- Wire-rope clamp. C. C. De Witt. No. 928,367; July 20; Sp. p. 3485; Gaz. vol. 144; p. 615.
- Wire-rope clamp. C. L. Mounts. No. 944,141; Dec. 21; Sp. p. 4531; Gaz. vol. 149; p. 778.
- Wire-rope, Fiber-clad. T. Gore. No. 922,418; May 18; Sp. p. 4762; Gaz. vol. 142; p. 825.
- Wire screen. H. F. Bittlinger and J. J. Ennis. No. 916,832; Mar. 30; Sp. p. 6404; Gaz. vol. 140; p. 1145.
- Wire screen for windows and the like. W. S. Welch and J. D. Mumford. No. 932,731; Aug. 31; Sp. p. 6572; Gaz. vol. 145; p. 1132.
- Wire set-still tension. Woof. O. S. Sturtevant. No. 911,344; Feb. 2; Sp. p. 626; Gaz. vol. 139; p. 107.
- Wire-splicer. H. A. Schermerhorn. No. 923,586; June 1; Sp. p. 1067; Gaz. vol. 143; p. 162.
- Wire-splicer. I. G. Huston. No. 939,509; Nov. 9; Sp. p. 2350; Gaz. vol. 148; p. 390.
- Wire staple. W. H. Page. No. 919,631; Apr. 27; Sp. p. 5738; Gaz. vol. 141; p. 987.
- Wire-staple forming and setting machine. W. C. Osterholm. No. 943,045; Dec. 14; Sp. p. 2207; Gaz. vol. 149; p. 375.
- Wire-stay-bending machine. W. Grimm and W. F. Drexler, Jr. No. 936,123; Oct. 5; Sp. p. 1099; Gaz. vol. 147; p. 168.
- Wire-stitcher. H. A. Olsson. No. 914,668; Mar. 9; Sp. p. 2137; Gaz. vol. 140; p. 360.
- Wire-straightener, Rotary. F. E. Vandercook. No. 937,489; Oct. 19; Sp. p. 3968; Gaz. vol. 147; p. 674.
- Wire-straightening machine. C. A. Stone. No. 923,599; June 1; Sp. p. 1093; Gaz. vol. 143; p. 167.
- Wire-stretcher. L. G. Thornton. No. 910,029; Jan. 19; Sp. p. 3219; Gaz. vol. 138; p. 594.
- Wire-stretcher. T. M. McKenzie. No. 910,945; Jan. 26; Sp. p. 5125; Gaz. vol. 138; p. 923.
- Wire-stretcher. B. Goodman. No. 912,838; Feb. 16; Sp. p. 3784; Gaz. vol. 139; p. 665.
- Wire-stretcher. B. Hestness. No. 912,960; Feb. 16; Sp. p. 3988; Gaz. vol. 139; p. 702.
- Wire-stretcher. L. Miller. No. 914,595; Mar. 9; Sp. p. 1973; Gaz. vol. 140; p. 337.
- Wire-stretcher. L. Riggins. No. 914,004; Mar. 9; Sp. p. 1995; Gaz. vol. 140; p. 340.
- Wire-stretcher. D. O. Miner. No. 915,368; Mar. 16; Sp. p. 3526; Gaz. vol. 140; p. 615.
- Wire-stretcher. W. J. Estes. No. 915,756; Mar. 23; Sp. p. 4359; Gaz. vol. 140; p. 774.
- Wire-stretcher. G. A. Linn. No. 917,879; Apr. 13; Sp. p. 1847; Gaz. vol. 141; p. 337.
- Wire-stretcher. F. L. Reed. No. 919,214; Apr. 20; Sp. p. 4638; Gaz. vol. 141; p. 810.
- Wire-stretcher. O. Phillips. No. 919,944; Apr. 27; Sp. p. 6381; Gaz. vol. 141; p. 1090.
- Wire-stretcher. E. Edwards. No. 920,039; Apr. 27; Sp. p. 6593; Gaz. vol. 141; p. 1121.
- Wire-stretcher. J. Fisher. No. 920,907; May 4; Sp. p. 457; Gaz. vol. 142; p. 70.
- Wire-stretcher. W. McGowen. No. 921,872; May 18; Sp. p. 3676; Gaz. vol. 142; p. 648.
- Wire-stretcher. F. Davis. No. 923,817; June 8; Sp. p. 1633; Gaz. vol. 143; p. 270.
- Wire-stretcher. B. Graham. No. 926,982; July 6; Sp. p. 568; Gaz. vol. 144; p. 93.
- Wire-stretcher. F. Stanlake. No. 932,828; Aug. 31; Sp. p. 6778; Gaz. vol. 145; p. 1162.
- Wire-stretcher. H. L. Bradbury and O. A. Grubb. No. 934,387; Sept. 14; Sp. p. 2856; Gaz. vol. 146; p. 477.
- Wire-stretcher. E. A. and C. W. Wheeler. No. 936,749; Oct. 12; Sp. p. 2409; Gaz. vol. 147; p. 401.
- Wire-stretcher. W. W. Snyder. No. 937,881; Oct. 26; Sp. p. 4760; Gaz. vol. 147; p. 823.
- Wire-stretcher. J. R. Wade. No. 938,029; Oct. 26; Sp. p. 5067; Gaz. vol. 147; p. 872.
- Wire-stretcher. E. F. Hopkins. No. 938,486; Nov. 2; Sp. p. 91; Gaz. vol. 148; p. 14.
- Wire-stretcher. J. F. Ball. No. 939,787; Nov. 9; Sp. p. 2955; Gaz. vol. 148; p. 456.
- Wire-stretcher. J. C. Barclay. No. 940,423; Nov. 16; Sp. p. 4408; Gaz. vol. 148; p. 737.
- Wire-stretcher. J. C. Barclay. No. 940,424; Nov. 16; Sp. p. 4409; Gaz. vol. 148; p. 737.
- Wire-stretcher. M. M. Marty. No. 940,884; Nov. 23; Sp. p. 5402; Gaz. vol. 148; p. 915.
- Wire-stretcher. J. Morehead. No. 942,006; Nov. 30; Sp. p. 7791; Gaz. vol. 148; p. 1312.
- Wire stretcher and splicer, Combined. G. W. Skinner. No. 935,699; Oct. 5; Sp. p. 162; Gaz. vol. 147; p. 26.
- Wire-stretcher, Combination. J. T. Ferguson. No. 938,503; Nov. 2; Sp. p. 284; Gaz. vol. 148; p. 41.
- Wire stretcher, Fence. J. R. Locke. No. 915,686; Mar. 16; Sp. p. 4205; Gaz. vol. 140; p. 724.
- Wire stretching and splicing device. P. O. Larson. No. 919,893; Apr. 27; Sp. p. 6292; Gaz. vol. 141; p. 1074.
- Wire-stretching appliance. G. L. Kroder. No. 912,858; Feb. 16; Sp. p. 3811; Gaz. vol. 139; p. 671.
- Wire-stretching appliance. G. A. Endicott. No. 940,521; Nov. 16; Sp. p. 4617; Gaz. vol. 148; p. 770.
- Wire-stretching machine. J. A. Kamp. No. 930,382; Aug. 10; Sp. p. 1538; Gaz. vol. 145; p. 278.
- Wire-stretching machine. H. Edwards and M. F. Sadler. No. 915,753; Mar. 23; Sp. p. 4350; Gaz. vol. 140; p. 773.
- Wire-stripper. A. J. Furlong. No. 927,345; July 6; Sp. p. 1296; Gaz. vol. 144; p. 214.
- Wire structure. T. G. Melish. No. 912,481; Feb. 16; Sp. p. 3001; Gaz. vol. 139; p. 543.
- Wire-support. J. F. Scott. No. 917,163; Apr. 6; Sp. p. 413; Gaz. vol. 141; p. 72.
- Wire-support. T. P. Chandler. No. 921,362; May 11; Sp. p. 2622; Gaz. vol. 142; p. 451.
- Wire-supporting device. J. M. Leadon, Jr. No. 940,034; Nov. 16; Sp. p. 3480; Gaz. vol. 148; p. 601.
- Wire tension device, Planter-check. W. J. Lundgren. No. 909,196; Jan. 12; Sp. p. 1578; Gaz. vol. 138; p. 284.
- Wire-tie-twisting tool. J. P. Curry. No. 908,649; Jan. 5; Sp. p. 473; Gaz. vol. 138; p. 74.
- Wire-tightener. W. E. Waller. No. 913,590; Feb. 23; Sp. p. 5313; Gaz. vol. 139; p. 940.
- Wire-twister. I. N. Morford. No. 942,732; Dec. 7; Sp. p. 1450; Gaz. vol. 149; p. 237.
- Wire-twisting machine. L. Blessing. No. 919,309; Apr. 27; Sp. p. 5046; Gaz. vol. 141; p. 876.
- Wire-twisting machine. L. Blessing. No. 940,231; Nov. 16; Sp. p. 3948; Gaz. vol. 148; p. 671.
- Wire-tying machine, Automatic. O. L. Bowers. No. 942,305; Dec. 7; Sp. p. 687; Gaz. vol. 149; p. 94.
- Wire wall-pocket. T. V. Cromwell. No. 942,714; Dec. 7; Sp. p. 1409; Gaz. vol. 149; p. 231.
- Wire-winding machines, Notching means for. W. L. Wergin. No. 942,118; Dec. 7; Sp. p. 193; Gaz. vol. 149; p. 29.
- Wire-working implement. C. J. Smith. No. 927,691; July 13; Sp. p. 2060; Gaz. vol. 144; p. 358.
- Wire-working implement. C. J. Smith. No. 942,017; Nov. 30; Sp. p. 7810; Gaz. vol. 148; p. 1315.
- Wire-working machine. S. I. Armbruster. No. 911,931; Feb. 9; Sp. p. 1760; Gaz. vol. 139; p. 326.
- Wire-working machine. G. B. Smith. No. 921,016; May 11; Sp. p. 1874; Gaz. vol. 142; p. 332.
- Wires and cables, Hanger and clamp for. C. Aalborg. No. 931,367; Aug. 17; Sp. p. 3699; Gaz. vol. 145; p. 638.
- Wires, Grounding device or terminal for line. W. R. Garton. No. 938,471; Nov. 2; Sp. p. 35; Gaz. vol. 148; p. 8.
- Wires, Seam for Fourdrinier. A. B. Weissenborn. No. 932,361; Aug. 24; Sp. p. 5768; Gaz. vol. 145; p. 985.
- Wireless communication. C. D. Babcock. No. 929,745; Aug. 3; Sp. p. 233; Gaz. vol. 145; p. 41.
- Wood, Apparatus for impregnation of. B. F. Watkins. No. 913,593; Feb. 23; Sp. p. 5317; Gaz. vol. 139; p. 941.
- Wood-barking apparatus. G. Spaak. No. 944,290; Dec. 28; Sp. p. 4832; Gaz. vol. 149; p. 853.
- Wood, Bending. J. T. Breece. No. 938,366; Oct. 26; Sp. p. 5818; Gaz. vol. 147; p. 987.
- Wood-bligh composition. J. W. Lafer. No. 939,273; Nov. 9; Sp. p. 1793; Gaz. vol. 148; p. 310.
- Wood, Coloring. W. A. Hall. No. 913,128; Feb. 23; Sp. p. 4341; Gaz. vol. 139; p. 785.
- Wood, Coloring. W. A. Hall. No. 933,435; Sept. 7; Sp. p. 886; Gaz. vol. 146; p. 139.
- Wood, Coloring. W. A. Hall. No. 939,014; Nov. 2; Sp. p. 1219; Gaz. vol. 148; p. 194.
- Wood, Coloring. W. A. Hall. No. 939,015; Nov. 2; Sp. p. 1220; Gaz. vol. 148; p. 196.
- Wood, Coloring and graining. W. A. Hall. No. 939,016; Nov. 2; Sp. p. 1222; Gaz. vol. 148; p. 195.
- Wood, Coloring or transforming. W. A. Hall. No. 933,436; Sept. 7; Sp. p. 887; Gaz. vol. 146; p. 139.
- Wood-compressing machine. H. J. Scheid. No. 920,396; May 4; Sp. p. 626; Gaz. vol. 142; p. 100.
- Wood for lumber, Treating. W. A. Hall. No. 924,770; June 15; Sp. p. 3606; Gaz. vol. 143; p. 619.
- Wood, Impregnating. J. Chateau and J. Merklen. No. 925,292; June 15; Sp. p. 4635; Gaz. vol. 143; p. 792.
- Wood-impregnating apparatus. E. Koepfer. No. 910,546; Jan. 26; Sp. p. 4330; Gaz. vol. 138; p. 795.

*Alphabetical list of inventions—Continued.*

- Wood-impregnating liquor. K. H. Wolman. No. 936,070; Oct. 5; Sp. p. 996; Gaz. vol. 147; p. 150.
- Wood, &c., Machine for dressing and finishing. J. W. Schleicher. No. 943,046; Dec. 14; Sp. p. 2211; Gaz. vol. 149; p. 376.
- Wood, &c., Machine for dressing and finishing. J. W. Schleicher. No. 943,102; Dec. 14; Sp. p. 2327; Gaz. vol. 149; p. 395.
- Wood or metal, Implement or device for rubbing fillers into the pores of. E. A. Kelly and F. C. Feneley. No. 911,731; Feb. 9; Sp. p. 1407; Gaz. vol. 139; p. 262.
- Wood, &c., Preserving. B. Diamond. No. 917,265; Apr. 6; Sp. p. 631; Gaz. vol. 141; p. 108.
- Wood, Preserving. J. M. Nelson, Jr. No. 937,008; Oct. 12; Sp. p. 2915; Gaz. vol. 147; p. 486.
- Wood, Preserving. W. A. G. von Heidenstam and K. L. F. Friedemann. No. 937,802; Oct. 26; Sp. p. 4595; Gaz. vol. 147; p. 796.
- Wood, Protecting. D. C. Meehan. No. 912,013; Feb. 9; Sp. p. 2034; Gaz. vol. 139; p. 354.
- Wood-pulp and making same. C. Bache-Wüg. No. 913,679; Mar. 2; Sp. p. 4; Gaz. vol. 140; p. 3.
- Wood-rosier. A. R. Wilkinson. No. 915,919; Mar. 23; Sp. p. 4650; Gaz. vol. 140; p. 825.
- Wood-scraper. J. H. Banke. No. 911,536; Feb. 2; Sp. p. 977; Gaz. vol. 139; p. 170.
- Wood-steaming apparatus. G. F. Hartley. No. 916,149; Mar. 23; Sp. p. 5086; Gaz. vol. 140; p. 900.
- Wood tank, Bent-. S. C. Mack. No. 915,981; Mar. 23; Sp. p. 4780; Gaz. vol. 140; p. 845.
- Wood, Transforming. W. A. Hall. No. 933,437; Sept. 7; Sp. p. 889; Gaz. vol. 146; p. 139.
- Wood, Treating. F. Y. Nishimura. No. 922,026; May 18; Sp. p. 3989; Gaz. vol. 142; p. 698.
- Woods, Treatment of coniferous. W. H. Rowley. No. 942,106; Dec. 7; Sp. p. 158; Gaz. vol. 149; p. 25.
- Wooden post. J. Carpenter. No. 910,356; Jan. 19; Sp. p. 3934; Gaz. vol. 138; p. 707.
- Wooden-rim wheel. H. F. Ball. No. 918,945; Apr. 20; Sp. p. 4147; Gaz. vol. 141; p. 725.
- Wooden-stave pipe. W. E. Phillips. No. 923,294; June 1; Sp. p. 423; Gaz. vol. 143; p. 60.
- Woodworker's clamp. A. W. Offineer. No. 927,067; July 6; Sp. p. 779; Gaz. vol. 144; p. 124.
- Woodworking-clamp. F. W. Nichols and F. J. Hastings. No. 919,930; Apr. 27; Sp. p. 6356; Gaz. vol. 141; p. 1086.
- Woodworking-machine. N. D. Cross. No. 908,753; Jan. 5; Sp. p. 692; Gaz. vol. 138; p. 107.
- Woodworking-machine. C. Bruderlein. No. 911,200; Feb. 2; Sp. p. 349; Gaz. vol. 139; p. 61.
- Woodworking-machine. C. C. Chapman. No. 918,655; Apr. 20; Sp. p. 3509; Gaz. vol. 141; p. 627.
- Woodworking-machine. H. B. Randall. No. 923,704; June 1; Sp. p. 1312; Gaz. vol. 143; p. 202.
- Woodworking-machine. D. S. Courtney. No. 924,536; June 8; Sp. p. 3095; Gaz. vol. 143; p. 506.
- Woodworking-machine. H. M. Albee. No. 926,452; June 29; Sp. p. 7020; Gaz. vol. 143; p. 1237.
- Woodworking-machine. J. W. Wadkin and T. Scott-King. No. 934,484; Sept. 21; Sp. p. 3035; Gaz. vol. 146; p. 533.
- Woodworking-machine. E. P. Shank. No. 942,940; Dec. 14; Sp. p. 1946; Gaz. vol. 149; p. 339.
- Woodworking-machine attachment. E. Sodergren. No. 915,496; Mar. 16; Sp. p. 3780; Gaz. vol. 140; p. 658.
- Woodworking-machines, Pressure device for. C. G. Wilderson. No. 942,804; Dec. 7; Sp. p. 1534; Gaz. vol. 149; p. 261.
- Woodworking-machines, Rotary cutter for. C. Karpp. No. 924,240; June 8; Sp. p. 2511; Gaz. vol. 143; p. 408.
- Woodworking-machinery safety appliance. F. Braun. No. 912,799; Feb. 16; Sp. p. 3718; Gaz. vol. 139; p. 654.
- Wool after washing, Apparatus for drying. W. E. Layland and J. H. Whitehead. No. 920,351; May 4; Sp. p. 532; Gaz. vol. 142; p. 84.
- Wool and other fibrous materials, Machine for cleaning. F. G. Sargent. No. 911,335; Feb. 2; Sp. p. 612; Gaz. vol. 139; p. 105.
- Wool and other similar fibers, Combing-machine for. J. Cooper, J. F. White, and L. Cooper. No. 911,114; Feb. 2; Sp. p. 178; Gaz. vol. 139; p. 33.
- Wool and other similar fibers, Combing-machine for. J. Cooper, J. F. White, and L. Cooper. No. 911,115; Feb. 2; Sp. p. 179; Gaz. vol. 139; p. 34.
- Wool, Apparatus for supplying liquid to. W. J. Murray. No. 927,998; July 13; Sp. p. 2690; Gaz. vol. 144; p. 459.
- Wool from its yolk and grease by electrical means, Freeing raw. J. M. Baudot. No. 914,368; Mar. 2; Sp. p. 1528; Gaz. vol. 140; p. 236.
- Wool-washing machine. F. G. and A. C. Sargent. No. 918,771; Apr. 20; Sp. p. 3762; Gaz. vol. 141; p. 667.
- Wool-washing machines, Regulator for. F. L. Furbush. No. 917,936; Apr. 13; Sp. p. 1967; Gaz. vol. 141; p. 357.
- Woolen. E. Leurent. No. 936,461; Oct. 12; Sp. p. 1821; Gaz. vol. 147; p. 303.
- Word-meter. H. I. Watts. No. 935,178; Sept. 28; Sp. p. 4434; Gaz. vol. 146; p. 790.
- Work-bench, Carpenter's. A. R. Humes. No. 918,155; Apr. 13; Sp. p. 2425; Gaz. vol. 141; p. 434.
- Work-box. R. F. Paden. No. 916,771; Mar. 30; Sp. p. 6288; Gaz. vol. 140; p. 1124.
- Work-box. T. Werstad. No. 931,826; Aug. 24; Sp. p. 4662; Gaz. vol. 145; p. 808.
- Work box and stand. S. Pecoy. No. 943,454; Dec. 14; Sp. p. 3056; Gaz. vol. 149; p. 513.
- Work-clamp. H. Howell. No. 928,657; July 20; Sp. p. 4069; Gaz. vol. 144; p. 709.
- Work-holder. I. J. Van Huffel, Jr. No. 933,799; Sept. 14; Sp. p. 1699; Gaz. vol. 146; p. 282.
- Work-holding means. E. W. Morehouse. No. 924,178; June 8; Sp. p. 2366; Gaz. vol. 143; p. 387.
- Work-recording appliance, Automatic. S. S. Berry. (Reissue.) No. 12,908; Jan. 5; Sp. p. 1450; Gaz. vol. 138; p. 231.
- Work-rest. W. J. Brennan. No. 909,143; Jan. 12; Sp. p. 1478; Gaz. vol. 138; p. 269.
- Work-support. J. H. Lesh. No. 921,419; May 11; Sp. p. 2727; Gaz. vol. 142; p. 469.
- Work-support. R. F. McFeely. No. 929,869; Aug. 3; Sp. p. 520; Gaz. vol. 145; p. 84.
- Work-support. E. I. LaChapelle. No. 932,790; Aug. 31; Sp. p. 6709; Gaz. vol. 145; p. 1151.
- Work-support. W. C. Stewart. No. 940,745; Nov. 23; Sp. p. 5102; Gaz. vol. 148; p. 870.
- Work-table for presses and the like. R. J. Gibbon. No. 927,458; July 6; Sp. p. 1540; Gaz. vol. 144; p. 253.
- Worms, Apparatus for cutting globoid. A. T. Collier. No. 921,593; May 1; Sp. p. 3058; Gaz. vol. 142; p. 525.
- Woven fabric. I. E. Palmer. No. 914,362; Mar. 2; Sp. p. 1517; Gaz. vol. 140; p. 233.
- Woven fabric. W. B. Lange. No. 915,365; Mar. 16; Sp. p. 3522; Gaz. vol. 140; p. 614.
- Woven fabric. T. Taylor. No. 922,641; May 25; Sp. p. 5241; Gaz. vol. 142; p. 927.
- Woven fabric. V. H. Jennings. No. 924,748; June 15; Sp. p. 3648; Gaz. vol. 143; p. 625.
- Woven fabric. J. P. Zepp and A. E. Coulthard. No. 926,310; June 29; Sp. p. 6748; Gaz. vol. 143; p. 1190.
- Woven fabric. R. A. Hammond. No. 926,868; July 6; Sp. p. 344; Gaz. vol. 144; p. 55.
- Woven fabric. W. Walker. No. 932,198; Aug. 24; Sp. p. 5470; Gaz. vol. 145; p. 931.
- Woven fabric. T. B. Dornan. No. 939,230; Nov. 9; Sp. p. 1701; Gaz. vol. 148; p. 295.
- Woven fabric and producing same. S. J. E. Solley. No. 919,485; Apr. 27; Sp. p. 5439; Gaz. vol. 141; p. 937.
- Wrapper. L. Mantler. No. 926,270; June 29; Sp. p. 6676; Gaz. vol. 143; p. 1178.
- Wrapper-cutting mechanism. H. Y. Armstrong. No. 918,813; Apr. 20; Sp. p. 3845; Gaz. vol. 141; p. 680.
- Wrapping and pasting machine. C. Owens. No. 911,542; Feb. 2; Sp. p. 986; Gaz. vol. 139; p. 172.
- Wrapping-machine. H. Y. Armstrong. No. 918,641; Apr. 20; Sp. p. 3454; Gaz. vol. 141; p. 622.
- Wrapping-machine. H. Y. Armstrong. No. 918,642; Apr. 20; Sp. p. 3468; Gaz. vol. 141; p. 623.
- Wrapping-machine. A. M. Price. No. 931,646; Aug. 17; Sp. p. 4232; Gaz. vol. 145; p. 725.
- Wrapping-machine. A. M. Price. No. 942,101; Dec. 7; Sp. p. 143; Gaz. vol. 149; p. 23.
- Wrapping machine, Package-. F. Giroud. No. 942,636; Dec. 7; Sp. p. 1259; Gaz. vol. 149; p. 206.
- Wrapping-machine web-cutting attachment. J. H. Brady. No. 913,352; Feb. 23; Sp. p. 4799; Gaz. vol. 139; p. 860.
- Wrapping mechanism. E. Scott. No. 914,315; Mar. 2; Sp. p. 1398; Gaz. vol. 140; p. 217.
- Wrapping, twisting, and polishing machine. W. J. Carey. No. 930,039; Aug. 3; Sp. p. 871; Gaz. vol. 145; p. 141.
- Wrapping up tin cans or other articles, Means for. J. A. Horne. No. 929,434; July 27; Sp. p. 5665; Gaz. vol. 144; p. 995.
- Wreck-locator and life-saver, Combined. F. P. Brüst. No. 927,772; July 13; Sp. p. 2219; Gaz. vol. 144; p. 385.
- Wrench: See Adjustable wrench; Alligator-wrench; Bit-wrench; Chain wrench; Combination-wrench; Extension-wrench; Jar-wrench; Monkey-wrench; Nut-wrench; Pipe-wrench; Pipe and nut wrench; Ratchet-wrench; Ratchet casing-tongs or pipe-wrench; Self-adjusting wrench; Shade-roller wrench; Socket-wrench; Spanner-wrench; Tire-bolt wrench; Vehicle-wrench.
- Wrench. T. S. Moffett. No. 908,595; Jan. 5; Sp. p. 347; Gaz. vol. 138; p. 56.
- Wrench. J. C. Simpson. No. 908,617; Jan. 5; Sp. p. 392; Gaz. vol. 138; p. 63.
- Wrench. R. W. Jones. No. 908,677; Jan. 5; Sp. p. 531; Gaz. vol. 138; p. 82.
- Wrench. W. J. Stenger. No. 909,474; Jan. 12; Sp. p. 2107; Gaz. vol. 138; p. 374.
- Wrench. W. O. Kyle. No. 909,613; Jan. 12; Sp. p. 2378; Gaz. vol. 138; p. 422.
- Wrench. J. W. Hurley. No. 909,799; Jan. 12; Sp. p. 2752; Gaz. vol. 138; p. 484.
- Wrench. F. Hachmann. No. 910,127; Jan. 19; Sp. p. 3414; Gaz. vol. 138; p. 625.
- Wrench. G. W. Stenz. No. 910,737; Jan. 26; Sp. p. 4712; Gaz. vol. 138; p. 856.
- Wrench. J. F. Wright. No. 910,890; Jan. 26; Sp. p. 5025; Gaz. vol. 138; p. 905.
- Wrench. R. A. Ryrie. No. 910,961; Jan. 26; Sp. p. 5153; Gaz. vol. 138; p. 929.
- Wrench. J. King. No. 911,048; Feb. 2; Sp. p. 48; Gaz. vol. 139; p. 11.
- Wrench. C. Waller. No. 911,096; Feb. 2; Sp. p. 142; Gaz. vol. 139; p. 27.
- Wrench. H. A. Paquette. No. 911,154; Feb. 2; Sp. p. 263; Gaz. vol. 139; p. 46.
- Wrench. W. C. Shay. No. 911,452; Feb. 2; Sp. p. 815; Gaz. vol. 139; p. 142.
- Wrench. J. Ertel. No. 911,814; Feb. 9; Sp. p. 1549; Gaz. vol. 139; p. 288.
- Wrench. L. Vader. No. 911,924; Feb. 9; Sp. p. 1750; Gaz. vol. 139; p. 324.



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- Wrench. C. B. Green. No. 912,117; Feb. 9; Sp. p. 2236; Gaz. vol. 139; p. 387.  
Wrench. J. Ryan. No. 912,177; Feb. 9; Sp. p. 2344; Gaz. vol. 139; p. 405.  
Wrench. R. Keil. No. 912,687; Feb. 16; Sp. p. 3447; Gaz. vol. 139; p. 615.  
Wrench. D. G. Connell. No. 912,993; Feb. 23; Sp. p. 4077; Gaz. vol. 139; p. 739.  
Wrench. E. Ohlsson. No. 913,302; Feb. 23; Sp. p. 4697; Gaz. vol. 139; p. 843.  
Wrench. M. G. Albanaki. No. 913,346; Feb. 23; Sp. p. 4788; Gaz. vol. 139; p. 858.  
Wrench. J. S. George. No. 913,374; Feb. 23; Sp. p. 4847; Gaz. vol. 139; p. 867.  
Wrench. S. S. Vaughan. No. 913,995; Mar. 2; Sp. p. 716; Gaz. vol. 140; p. 113.  
Wrench. A. B. King. No. 914,580; Mar. 9; Sp. p. 1944; Gaz. vol. 140; p. 332.  
Wrench. J. R. Bailey. No. 914,629; Mar. 9; Sp. p. 2044; Gaz. vol. 140; p. 348.  
Wrench. J. M. Kearnes. No. 915,446; Mar. 16; Sp. p. 3685; Gaz. vol. 140; p. 641.  
Wrench. T. H. Mumma. No. 915,463; Mar. 16; Sp. p. 3722; Gaz. vol. 140; p. 646.  
Wrench. J. R. Hunter and J. W. Foster. No. 915,861; Mar. 23; Sp. p. 4543; Gaz. vol. 140; p. 807.  
Wrench. J. P. Lyons. No. 915,869; Mar. 23; Sp. p. 4557; Gaz. vol. 140; p. 809.  
Wrench. E. Reynolds. No. 916,017; Mar. 23; Sp. p. 4844; Gaz. vol. 140; p. 857.  
Wrench. W. M. Meek. No. 916,468; Mar. 30; Sp. p. 5716; Gaz. vol. 140; p. 1031.  
Wrench. W. Van Wie. No. 916,507; Mar. 30; Sp. p. 5823; Gaz. vol. 140; p. 1045.  
Wrench. R. Q. Warren. No. 916,510; Mar. 30; Sp. p. 5828; Gaz. vol. 140; p. 1045.  
Wrench. E. C. Scruggs. No. 916,613; Mar. 30; Sp. p. 6023; Gaz. vol. 140; p. 1079.  
Wrench. H. Jeffrey. No. 916,951; Mar. 30; Sp. p. 6656; Gaz. vol. 140; p. 1186.  
Wrench. H. Jeffrey. No. 916,952; Mar. 30; Sp. p. 6657; Gaz. vol. 140; p. 1186.  
Wrench. W. A. Moffat. No. 917,098; Apr. 6; Sp. p. 277; Gaz. vol. 141; p. 50.  
Wrench. C. Sauer. No. 917,364; Apr. 6; Sp. p. 829; Gaz. vol. 141; p. 142.  
Wrench. C. L. Stewart. No. 917,904; Apr. 13; Sp. p. 1916; Gaz. vol. 141; p. 346.  
Wrench. H. F. Howland. No. 918,450; Apr. 13; Sp. p. 3015; Gaz. vol. 141; p. 530.  
Wrench. W. E. Burnett. No. 918,505; Apr. 20; Sp. p. 3147; Gaz. vol. 141; p. 577.  
Wrench. J. C. Sparks. No. 918,787; Apr. 20; Sp. p. 3784; Gaz. vol. 141; p. 671.  
Wrench. E. D. Smith. No. 919,260; Apr. 20; Sp. p. 4918; Gaz. vol. 141; p. 825.  
Wrench. G. L. Hindman. No. 920,059; Apr. 27; Sp. p. 6635; Gaz. vol. 141; p. 1128.  
Wrench. N. Dussault. No. 920,288; May 4; Sp. p. 427; Gaz. vol. 142; p. 65.  
Wrench. W. S. Bellows. No. 920,717; May 4; Sp. p. 1284; Gaz. vol. 142; p. 206.  
Wrench. E. Hagerstrand. No. 921,106; May 11; Sp. p. 2069; Gaz. vol. 142; p. 364.  
Wrench. A. C. Allen. No. 921,335; May 11; Sp. p. 2558; Gaz. vol. 142; p. 442.  
Wrench. W. H. Dawson. No. 921,643; May 11; Sp. p. 3190; Gaz. vol. 142; p. 546.  
Wrench. T. A. Powell. No. 922,330; May 18; Sp. p. 4581; Gaz. vol. 142; p. 796.  
Wrench. C. O. Bean and F. L. Baldwin. No. 923,103; May 25; Sp. p. 6198; Gaz. vol. 142; p. 1075.  
Wrench. C. E. Drake. No. 923,420; June 1; Sp. p. 699; Gaz. vol. 143; p. 103.  
Wrench. L. R. Blackmore. No. 923,617; June 1; Sp. p. 1134; Gaz. vol. 143; p. 173.  
Wrench. J. E. La Dow. No. 923,665; June 1; Sp. p. 1223; Gaz. vol. 143; p. 188.  
Wrench. W. E. Piper. No. 923,886; June 8; Sp. p. 1759; Gaz. vol. 143; p. 293.  
Wrench. J. G. Paterson. No. 924,269; June 8; Sp. p. 2571; Gaz. vol. 143; p. 418.  
Wrench. H. T. Bush. No. 924,292; June 8; Sp. p. 2616; Gaz. vol. 143; p. 426.  
Wrench. L. Forsythe. No. 924,444; June 8; Sp. p. 2907; Gaz. vol. 143; p. 476.  
Wrench. R. M. Ryan. No. 925,513; June 22; Sp. p. 5072; Gaz. vol. 143; p. 892.  
Wrench. N. S. Stalker. No. 925,522; June 22; Sp. p. 5084; Gaz. vol. 143; p. 895.  
Wrench. J. F. Roehm. No. 926,828; July 6; Sp. p. 261; Gaz. vol. 144; p. 41.  
Wrench. J. S. Nicholson. No. 927,270; July 6; Sp. p. 1171; Gaz. vol. 144; p. 191.  
Wrench. G. C. Winslow. No. 928,167; July 13; Sp. p. 3015; Gaz. vol. 144; p. 515.  
Wrench. A. Frick. No. 928,375; July 20; Sp. p. 3498; Gaz. vol. 144; p. 618.  
Wrench. J. L. Garner. No. 929,125; July 27; Sp. p. 5016; Gaz. vol. 144; p. 892.  
Wrench. R. A. Ferguson. No. 929,297; July 27; Sp. p. 5398; Gaz. vol. 144; p. 949.  
Wrench. M. L. Senter. No. 929,504; July 27; Sp. p. 5791; Gaz. vol. 144; p. 1016.  
Wrench. C. E. Somers. No. 929,797; Aug. 3; Sp. p. 350; Gaz. vol. 145; p. 59.  
Wrench. G. W. McElroy. No. 930,983; Aug. 10; Sp. p. 2823; Gaz. vol. 145; p. 477.  
Wrench. F. Smith. No. 931,510; Aug. 17; Sp. p. 3973; Gaz. vol. 145; p. 685.  
Wrench. J. J. Parsons. No. 931,640; Aug. 17; Sp. p. 4212; Gaz. vol. 145; p. 723.  
Wrench. A. Serfoza. No. 932,818; Aug. 31; Sp. p. 6759; Gaz. vol. 145; p. 1159.  
Wrench. A. R. Bell. No. 932,951; Aug. 31; Sp. p. 6999; Gaz. vol. 145; p. 1202.  
Wrench. W. H. Munro. No. 933,096; Sept. 7; Sp. p. 124; Gaz. vol. 146; p. 21.  
Wrench. T. H. Knott. No. 933,649; Sept. 7; Sp. p. 1387; Gaz. vol. 146; p. 209.  
Wrench. C. E. Bradford. No. 934,589; Sept. 21; Sp. p. 3250; Gaz. vol. 146; p. 567.  
Wrench. F. W. Eilart. No. 934,899; Sept. 21; Sp. p. 3862; Gaz. vol. 146; p. 670.  
Wrench. W. J. Morrison. No. 934,929; Sept. 21; Sp. p. 3924; Gaz. vol. 146; p. 680.  
Wrench. W. G. Dicker. No. 935,002; Sept. 28; Sp. p. 4085; Gaz. vol. 146; p. 732.  
Wrench. A. and B. W. Fresko. No. 935,482; Sept. 28; Sp. p. 5022; Gaz. vol. 146; p. 887.  
Wrench. J. A. Hemsley. No. 935,499; Sept. 28; Sp. p. 5057; Gaz. vol. 146; p. 893.  
Wrench. F. Light. No. 935,668; Oct. 5; Sp. p. 93; Gaz. vol. 147; p. 16.  
Wrench. W. A. Pratt. No. 936,035; Oct. 5; Sp. p. 916; Gaz. vol. 147; p. 139.  
Wrench. E. L. Scribner. No. 936,174; Oct. 5; Sp. p. 1207; Gaz. vol. 147; p. 183.  
Wrench. S. A. Holman. No. 937,304; Oct. 19; Sp. p. 3543; Gaz. vol. 147; p. 613.  
Wrench. P. Anderholm. No. 937,562; Oct. 19; Sp. p. 4113; Gaz. vol. 147; p. 700.  
Wrench. D. W. Shaffer. No. 937,966; Oct. 26; Sp. p. 4927; Gaz. vol. 147; p. 851.  
Wrench. C. Sauer. No. 938,020; Oct. 26; Sp. p. 5051; Gaz. vol. 147; p. 869.  
Wrench. E. D. Hamilton. No. 938,319; Oct. 26; Sp. p. 5700; Gaz. vol. 147; p. 971.  
Wrench. I. D. Board. No. 938,956; Nov. 2; Sp. p. 1106; Gaz. vol. 148; p. 176.  
Wrench. E. C. and G. W. Rea. No. 939,317; Nov. 9; Sp. p. 1919; Gaz. vol. 148; p. 327.  
Wrench. D. Mallory. No. 939,728; Nov. 9; Sp. p. 2823; Gaz. vol. 148; p. 466.  
Wrench. P. Bartok. No. 939,788; Nov. 9; Sp. p. 2957; Gaz. vol. 148; p. 487.  
Wrench. L. G. Van Ormer. No. 939,879; Nov. 9; Sp. p. 3137; Gaz. vol. 148; p. 518.  
Wrench. C. S. Foster. No. 940,524; Nov. 16; Sp. p. 4622; Gaz. vol. 148; p. 771.  
Wrench. W. P. Lewis. No. 940,977; Nov. 23; Sp. p. 5588; Gaz. vol. 148; p. 946.  
Wrench. C. C. Swanson. No. 941,431; Nov. 30; Sp. p. 6601; Gaz. vol. 148; p. 1119.  
Wrench. H. M. Gaines. No. 941,707; Nov. 30; Sp. p. 7183; Gaz. vol. 148; p. 1210.  
Wrench. C. E. Townsend. No. 943,286; Dec. 14; Sp. p. 2702; Gaz. vol. 149; p. 456.  
Wrench. S. A. Holman. No. 943,545; Dec. 14; Sp. p. 3238; Gaz. vol. 149; p. 545.  
Wrench. H. E. Stephens. No. 943,757; Dec. 21; Sp. p. 3720; Gaz. vol. 149; p. 647.  
Wrench. A. D. Davis and W. A. Thompson. No. 943,771; Dec. 21; Sp. p. 3745; Gaz. vol. 149; p. 652.  
Wrench. W. N. Jay. No. 943,781; Dec. 21; Sp. p. 3766; Gaz. vol. 149; p. 655.  
Wrench. R. Miller, Jr. No. 944,270; Dec. 28; Sp. p. 4784; Gaz. vol. 149; p. 846.  
Wrench. W. O. Stanley. No. 944,468; Dec. 28; Sp. p. 5233; Gaz. vol. 149; p. 916.  
Wrench. J. W. Sullivan. No. 944,923; Dec. 28; Sp. p. 6232; Gaz. vol. 149; p. 1071.  
Wrench and cutter. E. M. Newell. No. 924,816; June 15; Sp. p. 3699; Gaz. vol. 143; p. 634.  
Wrench and thread-cutter. Combination. N. Stiren. No. 914,199; Mar. 2; Sp. p. 1168; Gaz. vol. 140; p. 183.  
Wrench-jaws, Machine for cutting threads on shanks of. A. L. Moore. No. 920,606; May 4; Sp. p. 1032; Gaz. vol. 142; p. 168.  
Wrench-rack. C. A. Gordon. No. 925,577; June 22; Sp. p. 5191; Gaz. vol. 143; p. 914.  
Wrenches, Pipe-gripping attachment for monkey-. F. Gorman. No. 928,444; July 20; Sp. p. 3639; Gaz. vol. 144; p. 641.  
Wringer. See Clothes-wringer; Mop-wringer.  
Wringer. H. L. Dietz. No. 914,814; Mar. 9; Sp. p. 2429; Gaz. vol. 140; p. 408.  
Wringer-clamp. P. Helfrich. No. 938,856; Nov. 2; Sp. p. 862; Gaz. vol. 148; p. 139.  
Wringer-roll. R. Schwieder. No. 931,804; Aug. 24; Sp. p. 4621; Gaz. vol. 145; p. 801.  
Wringer support, Clothes-. C. H. Letterman. No. 944,884; Dec. 28; Sp. p. 6155; Gaz. vol. 149; p. 1059.  
Wrist-developer and strength-tester. V. M. del Valle y Zeno. No. 911,925; Feb. 9; Sp. p. 1751; Gaz. vol. 139; p. 324.

*Alphabetical list of inventions—Continued.*

- Wrist-supporter. J. J. Tyrrell. No. 923,217; June 1; Sp. p. 199; Gaz. vol. 143; p. 33.
- Wristband. B. A. Paroubek. No. 911,326; Feb. 2; Sp. p. 601; Gaz. vol. 139; p. 103.
- Wristband. H. J. Collis. No. 937,769; Oct. 26; Sp. p. 4532; Gaz. vol. 147; p. 785.
- Wristlet. R. N. Thomas. No. 911,780; Feb. 9; Sp. p. 1482; Gaz. vol. 139; p. 277.
- Writing a plurality of signatures or inscriptions, Means for simultaneously. J. S. Brand. No. 919,689; Apr. 27; Sp. p. 5861; Gaz. vol. 141; p. 1006.
- Writing and adding machine. M. H. Lockwood. No. 940,037; Nov. 16; Sp. p. 3486; Gaz. vol. 148; p. 602.
- Writing-guide. J. H. Lacy. No. 926,427; June 29; Sp. p. 6976; Gaz. vol. 143; p. 1228.
- Writing instrument. J. W. Dyches. No. 938,054; Nov. 2; Sp. p. 459; Gaz. vol. 148; p. 71.
- Writing-machine. L. C. Myers. No. 918,354; Apr. 13; Sp. p. 2823; Gaz. vol. 141; p. 500.
- Writing-machine. E. B. Hess. No. 924,460; June 8; Sp. p. 2938; Gaz. vol. 143; p. 481.
- Writing-machine. E. B. Hess. No. 931,305; Aug. 17; Sp. p. 3574; Gaz. vol. 145; p. 616.
- Wrought articles, Making. J. H. Dods. No. 942,489; Dec. 7; Sp. p. 968; Gaz. vol. 149; p. 156.
- X-ray apparatus. E. W. Caldwell. No. 931,034; Aug. 17; Sp. p. 2951; Gaz. vol. 145; p. 522.
- Yarn. W. P. Wood. No. 928,831; July 20; Sp. p. 4402; Gaz. vol. 144; p. 767.
- Yarn-changers, Controller for. H. H. West. No. 930,581; Aug. 10; Sp. p. 1969; Gaz. vol. 145; p. 346.
- Yarn-clearer or slub-catcher. G. W. Foster. No. 939,490; Nov. 9; Sp. p. 2316; Gaz. vol. 148; p. 384.
- Yarn-drying machine. T. Allsop and W. W. Sibson. No. 934,127; Sept. 14; Sp. p. 2374; Gaz. vol. 146; p. 389.
- Yarn or textile-thread stretching machine. P. Piepenbrink. No. 914,454; Mar. 9; Sp. p. 1694; Gaz. vol. 140; p. 290.
- Yarn or thread into carriers, Machine or mechanism for drawing. F. A. Whitmore and W. Dougherty. No. 933,214; Sept. 7; Sp. p. 410; Gaz. vol. 146; p. 64.
- Yarn-reel. A. E. Rhoades. No. 920,777; May 4; Sp. p. 1380; Gaz. vol. 142; p. 224.
- Yarn-reel for reeling-machines and winding-machines. J. Schweiter. No. 944,987; Dec. 28; Sp. p. 6359; Gaz. vol. 149; p. 1091.
- Yarns, tissues, &c., Obtaining goffering effects on. C. T. Tredup. No. 918,397; Apr. 13; Sp. p. 2908; Gaz. vol. 141; p. 513.
- Yeast compound, Dry. J. E. Yost. No. 941,221; Nov. 23; Sp. p. 6137; Gaz. vol. 148; p. 1029.
- Yeast-cutting device. J. Kolodziej. No. 920,345; May 4; Sp. p. 518; Gaz. vol. 142; p. 82.
- Yeast separating and washing apparatus. O. Selg and C. Guntrum. No. 918,096; Apr. 13; Sp. p. 2309; Gaz. vol. 141; p. 414.
- Yoke. W. T. Minor. No. 915,202; Mar. 16; Sp. p. 3221; Gaz. vol. 140; p. 562.
- Yoke and pole-strap connection, Neck-. C. B. Schleicher. No. 933,001; Aug. 31; Sp. p. 7085; Gaz. vol. 145; p. 1219.
- Yoke attachment, Neck-. P. Bissen. No. 940,230; Nov. 16; Sp. p. 3947; Gaz. vol. 148; p. 671.
- Yoke, Calf and sheep. G. J. Viehmeyer. No. 929,903; Aug. 3; Sp. p. 607; Gaz. vol. 145; p. 95.
- Yoke, Cattle-. E. H. Rook. No. 915,115; Mar. 16; Sp. p. 3024; Gaz. vol. 140; p. 534.
- Yoke center, Neck-. A. W. Noonan. No. 912,153; Feb. 9; Sp. p. 2296; Gaz. vol. 139; p. 398.
- Yoke center, Neck-. H. M. F. Leighty. No. 929,608; July 27; Sp. p. 6003; Gaz. vol. 144; p. 1051.
- Yoke center, Neck-. S. H. Renville. No. 937,179; Oct. 19; Sp. p. 3287; Gaz. vol. 147; p. 572.
- Yoke end, Neck-. I. L. Draucker. No. 914,558; Mar. 9; Sp. p. 1905; Gaz. vol. 140; p. 324.
- Yoke hook, Neck-. L. M. Snyder. No. 929,040; July 27; Sp. p. 4831; Gaz. vol. 144; p. 864.
- Yoke, Neck-. C. Christensen and C. W. Noonen. No. 911,112; Feb. 2; Sp. p. 172; Gaz. vol. 139; p. 32.
- Yoke, Neck-. B. J. Doran, B. Sturm, and S. Hinkle. No. 918,973; Apr. 20; Sp. p. 4213; Gaz. vol. 141; p. 736.
- Yoke, Neck-. G. E. Wheeler. No. 938,295; Oct. 26; Sp. p. 5634; Gaz. vol. 147; p. 963.
- Yoke, Neck-. C. B. Schleicher. No. 941,387; Nov. 30; Sp. p. 6494; Gaz. vol. 148; p. 1104.
- Yoke ring, Safety neck-. G. H. Folsom and A. Russell. No. 930,064; Aug. 3; Sp. p. 932; Gaz. vol. 145; p. 149.
- Yoke, Safety ball-bearing neck-. J. P. Wilson. No. 927,306; July 6; Sp. p. 1230; Gaz. vol. 144; p. 202.
- Zinc compounds and ammonia, Apparatus for recovering. E. G. and M. M. Pearlman. No. 919,376; Apr. 27; Sp. p. 5186; Gaz. vol. 141; p. 899.
- Zinc compounds and ammonia, Recovering. E. G. and M. M. Pearlman. No. 919,375; Apr. 27; Sp. p. 5185; Gaz. vol. 141; p. 899.
- Zinc-dust, Manufacture of. S. O. Cowper-Coles. No. 923,411; June 1; Sp. p. 686; Gaz. vol. 143; p. 100.
- Zinc formaldehyde sulfoxylate, Preparing. F. Rademacher. No. 935,815; Oct. 5; Sp. p. 465; Gaz. vol. 147; p. 60.
- Zinc from solutions of zinc sulfate, Electrolytic winning of. V. Engelhardt and M. Huth. No. 935,250; Sept. 28; Sp. p. 4576; Gaz. vol. 146; p. 814.
- Zinc-lead ores, Treatment of refractory. P. C. C. Isherwood. No. 925,190; June 15; Sp. p. 4458; Gaz. vol. 143; p. 761.
- Zinc ores, Reducing. A. H. Imbert. No. 927,857; July 13; Sp. p. 2411; Gaz. vol. 144; p. 412.
- Zinc ores, Treating. F. T. Snyder. No. 933,133; Sept. 7; Sp. p. 197; Gaz. vol. 146; p. 34.
- Zinc oxid, Making. L. S. Hughes. No. 920,337; May 4; Sp. p. 504; Gaz. vol. 142; p. 80.
- Zinc oxid, Manufacturing. L. S. Hughes. No. 920,336; May 4; Sp. p. 503; Gaz. vol. 142; p. 79.
- Zinc-retorts with granular material, Apparatus for filling. J. D. James. No. 936,245; Oct. 5; Sp. p. 1327; Gaz. vol. 147; p. 204.
- Zinc, Treating. S. Frank. No. 935,900; Oct. 5; Sp. p. 643; Gaz. vol. 147; p. 93.





## ALPHABETICAL LIST OF DESIGNS.

- Ash-cup, match-box, and glass-holder. L. W. Rice. No. 39,753; Jan. 12; Gaz. vol. 138; p. 505.
- Automobile-horn. L. Rubes. No. 39,746; Jan. 5; Gaz. vol. 138; p. 234.
- Automobile-horn. E. Rubes. No. 39,781; Jan. 19; Gaz. vol. 138; p. 753.
- Automobile-horn. E. Rubes. No. 40,151; July 20; Gaz. vol. 144; p. 800.
- Automobile-horn. J. W. Jones. Nos. 40,184-6; July 27; Gaz. vol. 144; p. 1071.
- Automobile-horn. L. Anguilli. Nos. 40,251-3; Sept. 7; Gaz. vol. 146; p. 242.
- Automobile hub-cap. G. W. Dunham. No. 40,249; Aug. 31; Gaz. vol. 145; p. 1237.
- Badge. A. T. Fischer. No. 39,737; Jan. 5; Gaz. vol. 138; p. 232.
- Badge. F. Hughes. No. 39,833; Feb. 23; Gaz. vol. 139; p. 970.
- Badge. W. E. Bush. No. 39,848; Mar. 2; Gaz. vol. 140; p. 238.
- Badge. W. H. Doyle. No. 39,849; Mar. 2; Gaz. vol. 140; p. 238.
- Badge. M. Wojtecki. No. 39,895; Mar. 30; Gaz. vol. 140; p. 1192.
- Badge. J. J. Coccaro. No. 39,941; Apr. 27; Gaz. vol. 141; p. 1146.
- Badge. A. Dickinson. No. 39,985; May 18; Gaz. vol. 142; p. 836.
- Badge. M. J. Hynek. No. 39,986; May 18; Gaz. vol. 142; p. 836.
- Badge. C. J. Dieges. Nos. 40,000-1; May 25; Gaz. vol. 142; pp. 1092-3.
- Badge. J. W. Green. No. 40,002; May 25; Gaz. vol. 142; p. 1093.
- Badge. E. J. Kassel. No. 40,003; May 25; Gaz. vol. 142; p. 1093.
- Badge. J. Sullivan. No. 40,029; June 8; Gaz. vol. 143; p. 540.
- Badge. J. A. Booty. No. 40,048; June 15; Gaz. vol. 143; p. 843.
- Badge. E. H. Humphrey. No. 40,071; June 22; Gaz. vol. 143; p. 1085.
- Badge. G. G. Greenburg. No. 40,072; June 22; Gaz. vol. 143; p. 1085.
- Badge. J. J. Coccaro. No. 40,099; June 29; Gaz. vol. 143; p. 1327.
- Badge. A. E. Parker. No. 40,100; June 29; Gaz. vol. 143; p. 1327.
- Badge. R. Alford. No. 40,114; July 6; Gaz. vol. 144; p. 258.
- Badge. A. Armstrong. No. 40,115; July 6; Gaz. vol. 144; p. 258.
- Badge. L. S. Lee. No. 40,116; July 6; Gaz. vol. 144; p. 258.
- Badge. J. E. Curtis. No. 40,171; July 27; Gaz. vol. 144; p. 1069.
- Badge. J. W. Green. No. 40,237; Aug. 31; Gaz. vol. 145; p. 1236.
- Badge. C. W. Nelson. No. 40,265; Sept. 21; Gaz. vol. 146; p. 702.
- Badge. E. L. Haynes. No. 40,415; Dec. 28; Gaz. vol. 149; p. 1102.
- Badge, Souvenir-. H. A. Bragg. No. 39,850; Mar. 2; Gaz. vol. 140; p. 238.
- Bag, Chatelaine-. J. Lambert. No. 40,376; Nov. 30; Gaz. vol. 148; p. 1326.
- Bag, Hand-. I. J. Levy. Nos. 39,937-8; Apr. 20; Gaz. vol. 141; p. 848.
- Bag, Hand-. I. J. Levy. No. 40,084; June 22; Gaz. vol. 143; p. 1087.
- Bank, Toy savings-. H. Marlow. No. 39,902; Mar. 30; Gaz. vol. 140; p. 1193.
- Basin-cock. H. Mueller. No. 39,756; Jan. 12; Gaz. vol. 138; p. 506.
- Basin-supporting bracket. M. J. McNamara and F. E. Cantner. No. 40,400; Dec. 14; Gaz. vol. 149; p. 582.
- Bath-tub for bird-cages. M. Boigner. No. 39,869; Mar. 9; Gaz. vol. 140; p. 490.
- Beam, Balance-. W. Heusser. No. 39,858; Mar. 2; Gaz. vol. 140; p. 239.
- Bedstead. R. Naysmith. No. 39,887; Mar. 16; Gaz. vol. 140; p. 739.
- Bedstead. H. H. Hirsch. No. 39,943; Apr. 27; Gaz. vol. 141; p. 1146.
- Bedstead end. J. F. Stephenson. No. 40,109; June 29; Gaz. vol. 143; p. 1329.
- Belt-buckle. L. M. Rosenberg. No. 40,208; Aug. 10; Gaz. vol. 145; p. 494.
- Blanket. C. M. Whitman. No. 39,978; May 4; Gaz. vol. 142; p. 269.
- Bonnet, Knitted. S. Burchard. No. 39,940; Apr. 20; Gaz. vol. 141; p. 848.
- Book-cover. C. A. Musselman. No. 39,814; Feb. 9; Gaz. vol. 139; p. 445.
- Book-cover. L. A. Cole. No. 40,403; Dec. 14; Gaz. vol. 149; p. 583.
- Border-section. C. Graff. No. 40,009; May 25; Gaz. vol. 142; p. 1093.
- Bottle. R. B. Annis. No. 39,840; Feb. 23; Gaz. vol. 139; p. 971.
- Bottle. A. M. Perrault. No. 39,856; Mar. 2; Gaz. vol. 140; p. 239.
- Bottle. C. Boldt. No. 39,921; Apr. 20; Gaz. vol. 141; p. 845.
- Bottle. J. G. Lyman. Nos. 40,020-1; June 1; Gaz. vol. 143; p. 242.
- Bottle. M. and S. Liebenenthal. No. 40,080; June 22; Gaz. vol. 143; p. 1087.
- Bottle. C. D. Mawer. No. 40,081; June 22; Gaz. vol. 143; p. 1087.
- Bottle. C. E. Heilen. No. 40,104; June 29; Gaz. vol. 143; p. 1328.
- Bottle-cap. H. A. Miner. No. 40,386; Dec. 7; Gaz. vol. 149; p. 291.
- Bottle casing, Perfumery-. G. Dralle. No. 39,855; Mar. 2; Gaz. vol. 140; p. 239.
- Bottle, Poison-. A. J. Iwan. No. 39,777; Jan. 19; Gaz. vol. 138; p. 752.
- Bottle-stopper. W. Horlick, Jr. No. 40,033; June 8; Gaz. vol. 143; p. 541.
- Bottle, Vacuum-insulated. A. J. Kelley. No. 39,857; Mar. 2; Gaz. vol. 140; p. 239.
- Bow. H. Feder. No. 40,405; Dec. 14; Gaz. vol. 149; p. 583.
- Box. C. M. Pease. No. 39,802; Feb. 2; Gaz. vol. 139; p. 180.
- Box, Work-. J. J. Giles. No. 40,229; Aug. 17; Gaz. vol. 145; p. 751.
- Bracelet, Rosary-. K. Beetar. No. 40,321; Oct. 26; Gaz. vol. 147; p. 1020.
- Bracket. S. Moore. No. 39,962; May 4; Gaz. vol. 142; p. 266.
- Bracket for supporting fans, &c. B. A. Stowe. No. 40,357; Nov. 16; Gaz. vol. 148; p. 817.
- Braid. F. Doebell. No. 39,944; Apr. 27; Gaz. vol. 141; p. 1146.
- Braid. F. Doebell. No. 40,363; Nov. 16; Gaz. vol. 148; p. 818.
- Brooch. H. J. Flint. No. 40,101; June 29; Gaz. vol. 143; p. 1328.
- Brooch. R. C. Thompson. No. 40,147; July 20; Gaz. vol. 144; p. 800.
- Brooch. F. S. Boyden. No. 40,349; Nov. 16; Gaz. vol. 148; p. 815.
- Brooch or similar article. O. C. Lanphear. No. 40,134; July 13; Gaz. vol. 144; p. 545.
- Brush, Shaving-. J. L. Erskine. Nos. 39,898-9; Mar. 30; Gaz. vol. 140; p. 1193.
- Brush, Shaving-. C. E. Thompson. Nos. 40,159-60; July 20; Gaz. vol. 144; p. 802.
- Burial-casket. J. Topol. No. 40,016; May 25; Gaz. vol. 142; p. 1095.
- Button. J. Melillo and J. Cariddi. No. 40,075; June 22; Gaz. vol. 143; p. 1085.
- Button. W. Frenz. No. 40,102; June 29; Gaz. vol. 143; p. 1328.
- Button. R. Liebmann. No. 40,117; July 6; Gaz. vol. 144; p. 258.
- Button. C. Stoeter. No. 40,118; July 6; Gaz. vol. 144; p. 258.
- Button. C. Stoeter. No. 40,135; July 13; Gaz. vol. 144; p. 545.
- Button, Cuff-. J. Pejchar. No. 40,337; Nov. 9; Gaz. vol. 148; p. 551.
- Cabinet. H. Rosengard and A. Goldberg. No. 39,860; Mar. 2; Gaz. vol. 140; p. 240.
- Cabinet. W. C. Pitts. Nos. 39,908-9; Apr. 6; Gaz. vol. 141; p. 271.
- Cabinet. J. Herzog. No. 39,970; May 4; Gaz. vol. 142; p. 268.
- Cabinet, Sewing-. H. R. Miller. No. 39,918; Apr. 13; Gaz. vol. 141; p. 548.
- Cabinet, Sheet-music. M. Shapiro. No. 39,923; Apr. 20; Gaz. vol. 141; p. 846.
- Cages, Wing member for clamping the bases of bird-. O. Lindemann. No. 39,995; May 18; Gaz. vol. 142; p. 838.
- Cane. A. H. Sager and A. J. Martin. No. 39,981; May 11; Gaz. vol. 142; p. 552.
- Cap, Child's. L. Volat. No. 40,028; June 1; Gaz. vol. 143; p. 243.
- Carafe, Vacuum-. J. C. Smith. No. 40,019; June 1; Gaz. vol. 143; p. 241.
- Card blank, Show-. E. G. Soltmann and I. Billig. No. 40,013; May 25; Gaz. vol. 142; p. 1094.



*Alphabetical list of designs—Continued.*

- Card-case. A. Schickerling. No. 40,197; Aug. 3; Gaz. vol. 145; p. 240.  
 Card, Menu-. M. Altman. No. 39,912; Apr. 13; Gaz. vol. 141; p. 547.  
 Card-rack. I. Hahn. No. 39,755; Jan. 12; Gaz. vol. 138; p. 505.  
 Cards, Back of playing-. J. A. Radcliffe. No. 39,905; Apr. 6; Gaz. vol. 141; p. 270.  
 Carpet. W. A. Elliot. No. 40,193; July 27; Gaz. vol. 144; p. 1073.  
 Casing for mechanical whistles or sirens. J. Gordon, Jr. No. 39,791; Jan. 26; Gaz. vol. 138; p. 949.  
 Casket-cover panel. E. O. Peoples. No. 40,237; Oct. 5; Gaz. vol. 147; p. 218.  
 Casket-trimming. W. E. Stevens. No. 40,111; June 29; Gaz. vol. 143; p. 1330.  
 Casket-trimming. W. E. Stevens. No. 40,198; Aug. 3; Gaz. vol. 145; p. 240.  
 Chafing-dish and stand. S. Sternau and C. Nelson. No. 39,885; Mar. 16; Gaz. vol. 140; p. 739.  
 Chair. L. Killian. No. 39,845; Feb. 23; Gaz. vol. 139; p. 972.  
 Chair. L. Killian. Nos. 40,089-90; June 22; Gaz. vol. 143; p. 1088.  
 Chair, Barber's. C. Pfanschmidt. No. 40,231; Aug. 17; Gaz. vol. 145; p. 751.  
 Chair side standard, Opera-. A. Pyle. No. 39,891; Mar. 23; Gaz. vol. 140; p. 987.  
 Charm, pin, or similar article. R. Leding. No. 40,385; Dec. 7; Gaz. vol. 149; p. 291.  
 Chimney-cap. E. C. Wade. No. 40,236; Aug. 24; Gaz. vol. 145; p. 1007.  
 Chocolate comfit. S. S. Marvin. Nos. 40,268-9; Sept. 21; Gaz. vol. 146; p. 703.  
 Cigar-band. W. Weigang. Nos. 39,926-33; Apr. 20; Gaz. vol. 141; pp. 846-7.  
 Clock-case. W. H. Richards and A. E. Keuhne. No. 39,884; Mar. 16; Gaz. vol. 140; p. 738.  
 Clock-case. P. G. Giroud. No. 39,942; Apr. 27; Gaz. vol. 141; p. 1146.  
 Clock-case. B. A. Chubbuck. No. 40,126; July 6; Gaz. vol. 144; p. 260.  
 Clock-case. D. J. Hurley. Nos. 40,149-50; July 20; Gaz. vol. 144; p. 800.  
 Clock-case. F. J. and W. C. Van Cise. No. 40,373; Nov. 30; Gaz. vol. 148; p. 1326.  
 Clock case and dial. G. W. Hamilton. No. 39,922; Apr. 20; Gaz. vol. 141; p. 846.  
 Clock case, Chime-. J. E. Green. Nos. 40,233-4; Aug. 24; Gaz. vol. 145; p. 1007.  
 Clothes-rack. C. D. Golden. No. 40,278; Sept. 28; Gaz. vol. 146; p. 942.  
 Clothes-rack. J. H. Wilson. No. 40,413; Dec. 21; Gaz. vol. 149; p. 815.  
 Cock, Pantry-. H. Mueller. No. 39,792; Jan. 26; Gaz. vol. 138; p. 949.  
 Coffee-bin. F. F. Wear. No. 40,085; June 22; Gaz. vol. 143; p. 1087.  
 Coffee-pot. W. C. Codman. No. 40,156; July 20; Gaz. vol. 144; p. 801.  
 Collar, Bead. M. V. Maag. Nos. 40,319-20; Oct. 19; Gaz. vol. 147; p. 760.  
 Collar-supporter. J. E. Crook. No. 39,939; Apr. 20; Gaz. vol. 141; p. 848.  
 Collar supporter, Neck-. F. L. Leyser. No. 39,832; Feb. 16; Gaz. vol. 139; p. 716.  
 Comb, Hair-dressing. J. I. Rice. No. 40,077; June 22; Gaz. vol. 143; p. 1086.  
 Condiment-holder. J. J. Greene. No. 39,956; May 4; Gaz. vol. 142; p. 265.  
 Corn-holder. C. Bomeisler. No. 39,815; Feb. 9; Gaz. vol. 139; p. 445.  
 Corset-protecting shield. A. R. Moses. No. 39,760; Jan. 12; Gaz. vol. 138; p. 506.  
 Crumb-scraper. A. N. Lattin. No. 39,839; Feb. 23; Gaz. vol. 139; p. 971.  
 Cuff-pins or similar articles, Head of. A. E. Dixon. Nos. 40,205-7; Aug. 10; Gaz. vol. 145; p. 494.  
 Cup, Drinking-. E. B. Sowers. No. 40,374; Nov. 30; Gaz. vol. 148; p. 1326.  
 Cup or similar article. I. J. F. King. No. 40,417; Dec. 28; Gaz. vol. 149; p. 1102.  
 Curtain-edging. C. Weinberg. No. 40,167; July 20; Gaz. vol. 144; p. 803.  
 Desk and chair frame, School. H. J. Siems. No. 40,091; June 22; Gaz. vol. 143; p. 1089.  
 Desk for hotel-registers. J. H. Smith. No. 39,872; Mar. 9; Gaz. vol. 140; p. 490.  
 Desk standard, School-. W. B. Cogger. No. 40,044; June 8; Gaz. vol. 143; p. 543.  
 Dial. L. H. Starkey. Nos. 40,127-8; July 6; Gaz. vol. 144; p. 260.  
 Diaphragm-actuated horns, Diaphragm case and resonator for. M. R. Hutchison. No. 39,801; Feb. 2; Gaz. vol. 139; p. 180.  
 Dish. E. G. Garrison. No. 39,958; May 4; Gaz. vol. 142; p. 266.  
 Dish. C. Graff. No. 39,992; May 18; Gaz. vol. 142; p. 837.  
 Dish. W. H. Tams. Nos. 40,152-4; July 20; Gaz. vol. 144; p. 801.  
 Dish. C. Bond. No. 40,244; Aug. 31; Gaz. vol. 145; p. 1236.  
 Dish. S. Hentschy. No. 40,375; Nov. 30; Gaz. vol. 148; p. 1326.  
 Dish, Cut-glass. T. B. Clark. No. 40,213; Aug. 10; Gaz. vol. 145; p. 495.  
 Dish or similar article. W. De Goey. No. 40,367; Nov. 23; Gaz. vol. 148; p. 1072.  
 Dish or similar article, Covered. C. J. Ahrenfeldt. No. 39,915; Apr. 13; Gaz. vol. 141; p. 548.  
 Dish stand, Chafing-. A. H. S. Swan. Nos. 40,211-12; Aug. 10; Gaz. vol. 145; p. 495.  
 Display-case. C. E. Schaffner. No. 39,917; Apr. 13; Gaz. vol. 141; p. 548.  
 Display-case. C. W. Cohn. No. 40,190; July 27; Gaz. vol. 144; p. 1072.  
 Display-case attachment. M. A. Skall. No. 40,419; Dec. 28; Gaz. vol. 149; p. 1103.  
 Display-stand for boxes. H. M. Michaelis. No. 39,996; May 18; Gaz. vol. 142; p. 838.  
 Dolly. R. Gair. Nos. 40,274-7; Sept. 28; Gaz. vol. 146; p. 941.  
 Dolly. R. Gair. No. 40,348; Nov. 9; Gaz. vol. 148; p. 553.  
 Doll-pattern. A. Z. Baker. No. 39,979; May 4; Gaz. vol. 142; p. 270.  
 Doll-pattern. A. Z. Baker. No. 40,047; June 8; Gaz. vol. 143; p. 543.  
 Door-knob. C. H. Herrick. No. 39,779; Jan. 19; Gaz. vol. 138; p. 753.  
 Dresser. F. O. Anderson. No. 40,145; July 13; Gaz. vol. 144; p. 547.  
 Edging, Woven. F. W. Oehle. No. 40,364; Nov. 16; Gaz. vol. 148; p. 818.  
 Electric-light bracket. C. Holland. No. 39,924; Apr. 20; Gaz. vol. 141; p. 846.  
 Electric-light cluster. R. B. Benjamin. No. 40,407; Dec. 21; Gaz. vol. 149; p. 814.  
 Electrical connector. H. G. Pape. No. 39,870; Mar. 9; Gaz. vol. 140; p. 490.  
 Electrolier. J. W. Turner. No. 40,355; Nov. 16; Gaz. vol. 148; p. 817.  
 Electrolier, Street-. R. Chartrey. No. 39,841; Feb. 23; Gaz. vol. 139; p. 971.  
 Emblem. F. Sutterlin. No. 39,749; Jan. 12; Gaz. vol. 138; p. 504.  
 Emblem. L. H. Morgan. No. 39,770; Jan. 19; Gaz. vol. 138; p. 751.  
 Emblem. M. J. Heller. No. 39,787; Jan. 26; Gaz. vol. 138; p. 948.  
 Emblem. G. S. Merrill. No. 39,798; Feb. 2; Gaz. vol. 139; p. 180.  
 Emblem. H. P. Pratt. No. 39,813; Feb. 9; Gaz. vol. 139; p. 445.  
 Emblem. B. Martin. No. 39,823; Feb. 16; Gaz. vol. 139; p. 714.  
 Emblem. E. A. Martin. No. 39,865; Mar. 9; Gaz. vol. 140; p. 489.  
 Emblem. A. R. Tuck. No. 39,945; May 4; Gaz. vol. 142; p. 264.  
 Emblem. A. L. Manahan. No. 40,030; June 8; Gaz. vol. 143; p. 540.  
 Emblem. A. L. Wild. No. 40,049; June 15; Gaz. vol. 143; p. 843.  
 Emblem. J. H. Risbeck. Nos. 40,069-70; June 22; Gaz. vol. 143; p. 1085.  
 Emblem. J. E. Swallow. No. 40,073; June 22; Gaz. vol. 143; p. 1085.  
 Emblem. R. M. Graham and H. T. Hoag. No. 40,204; Aug. 10; Gaz. vol. 145; p. 494.  
 Emblem. J. M. Weingartner. No. 40,238; Aug. 31; Gaz. vol. 145; p. 1236.  
 Emblem. F. M. Grant. No. 40,383; Dec. 7; Gaz. vol. 149; p. 291.  
 Emblem. W. G. Lee and A. E. King. No. 40,384; Dec. 7; Gaz. vol. 149; p. 291.  
 Emblem, Fraternal. C. W. Taber. No. 39,987; May 18; Gaz. vol. 142; p. 836.  
 Emblem, Masonic. H. W. Randall. No. 39,874; Mar. 16; Gaz. vol. 140; p. 737.  
 Emblem or fob-jewel. M. O. Discher. No. 39,873; Mar. 16; Gaz. vol. 140; p. 736.  
 Fabric. O. Zschaemisch. No. 40,254; Sept. 7; Gaz. vol. 146; p. 242.  
 Fabric. D. Valentine. No. 40,414; Dec. 21; Gaz. vol. 149; p. 815.  
 Fabric for mats. E. A. Benedict. No. 40,421; Dec. 28; Gaz. vol. 149; p. 1103.  
 Fabric for window-shades or similar articles. A. A. Boeck. Nos. 40,422-3; Dec. 28; Gaz. vol. 149; p. 1103.  
 Fabric, Metal mesh. F. J. Lightbody. No. 40,388; Dec. 7; Gaz. vol. 149; p. 292.  
 Fabric, Pile. F. H. Walker. No. 39,863; Mar. 2; Gaz. vol. 140; p. 240.  
 Fabric, Printed. J. Korzinek. No. 39,804; Feb. 2; Gaz. vol. 139; p. 181.  
 Fabric, Textile. P. Scheidecker. Nos. 39,794-7; Jan. 26; Gaz. vol. 138; p. 950.  
 Fabric, Textile. P. Mouton. Nos. 39,805-8; Feb. 2; Gaz. vol. 139; pp. 181-2.  
 Fabric, Textile. E. Sins. Nos. 39,809-12; Feb. 2; Gaz. vol. 139; p. 182.  
 Fabric, Textile. R. Gattiker. Nos. 39,818-21; Feb. 9; Gaz. vol. 139; p. 446.

*Alphabetical list of designs—Continued.*

- Faucet attachment for mixing hot and cold water, Water-. R. K. Yacobian. No. 40,106; June 29; Gaz. vol. 143; p. 1329.
- Fence, F. A. Peter. No. 39,977; May 4; Gaz. vol. 142; p. 269.
- Fence, M. and L. S. Lachman. No. 39,998; May 18; Gaz. vol. 142; p. 838.
- Fence, Wire. L. Swank. No. 39,861; Mar. 2; Gaz. vol. 140; p. 240.
- Filing-cabinet. W. M. Ames. No. 40,270; Sept. 21; Gaz. vol. 146; p. 703.
- Fireplace. J. Silbermann. No. 40,318; Oct. 19; Gaz. vol. 147; p. 759.
- Flag. J. J. Butcher. No. 40,067; June 22; Gaz. vol. 143; p. 1084.
- Flag. C. Y. Turner. No. 40,336; Nov. 9; Gaz. vol. 148; p. 551.
- Flowers and plants, Stand or holder for cut. E. M. Moore and P. J. Timberlake. No. 40,361; Nov. 16; Gaz. vol. 148; p. 818.
- Flush-tank. B. O. Tilden. No. 40,402; Dec. 14; Gaz. vol. 149; p. 583.
- Fob. F. Erben. No. 40,392; Dec. 14; Gaz. vol. 149; p. 581.
- Fob. I. R. Lederer. No. 40,406; Dec. 21; Gaz. vol. 149; p. 814.
- Forks, spoons, and similar articles, Handle for. T. B. Lashar. No. 39,835; Feb. 23; Gaz. vol. 139; p. 970.
- Fringe, Woven. E. Rump. No. 40,247; Aug. 31; Gaz. vol. 145; p. 1237.
- Furniture ornament. J. J. Darnell. No. 39,997; May 18; Gaz. vol. 142; p. 838.
- Garment-supporter. R. A. Moore. No. 40,199; Aug. 3; Gaz. vol. 145; p. 240.
- Gas-burner. W. F. Keiser. No. 39,966; May 4; Gaz. vol. 142; p. 267.
- Gas-burner for street-lights, Inverted. V. H. Slinack. No. 40,057; June 15; Gaz. vol. 143; p. 845.
- Gas-burner, Vertical inverted incandescent. A. Bray. No. 40,346; Nov. 9; Gaz. vol. 148; p. 553.
- Gas steam-radiator. J. H. Mead. No. 39,827; Feb. 16; Gaz. vol. 139; p. 715.
- Gem-setting. I. D. Belasco. No. 40,005; May 25; Gaz. vol. 142; p. 1093.
- Gem-setting. L. Kraus. No. 40,006; May 25; Gaz. vol. 142; p. 1093.
- Glass dish, Cut-. R. H. Pittman. No. 40,051; June 15; Gaz. vol. 143; p. 844.
- Glass pitcher. S. Hawkes. Nos. 40,324-5; Nov. 2; Gaz. vol. 148; pp. 262-3.
- Glass receptacle. B. W. Jacobs. No. 40,396; Dec. 14; Gaz. vol. 149; p. 582.
- Glass, Sheet-. H. J. Gilbert. No. 40,261; Sept. 14; Gaz. vol. 146; p. 492.
- Glass, Sheet-. T. J. Woodward. No. 40,359; Nov. 16; Gaz. vol. 148; p. 817.
- Glass vessel. A. Steffin. No. 39,982; May 11; Gaz. vol. 142; p. 552.
- Glass vessel. H. Haden. No. 39,993; May 18; Gaz. vol. 142; p. 837.
- Glass vessel. A. Steffin. No. 39,994; May 18; Gaz. vol. 142; p. 837.
- Glass vessel. T. G. Hawkes. No. 40,195; Aug. 3; Gaz. vol. 145; p. 240.
- Glass vessel or similar article. H. P. Sinclair. No. 39,980; May 4; Gaz. vol. 142; p. 270.
- Glass vessel or similar article. H. P. Sinclair. No. 40,196; Aug. 3; Gaz. vol. 145; p. 240.
- Glove, Lace. E. Uhlich. No. 40,226; Aug. 10; Gaz. vol. 145; p. 498.
- Goblet. W. Kny. No. 40,360; Nov. 16; Gaz. vol. 148; p. 818.
- Grave-marker. A. P. Stults. No. 40,017; May 25; Gaz. vol. 142; p. 1095.
- Grave-marker. F. A. Morris. No. 40,110; June 29; Gaz. vol. 143; p. 1329.
- Grill. J. J. and S. P. Burgess. No. 40,291; Oct. 12; Gaz. vol. 147; p. 497.
- Grille. H. O. Schmidt. No. 40,039; June 8; Gaz. vol. 143; p. 542.
- Hammock. D. W. Shoyer. No. 40,370; Nov. 23; Gaz. vol. 148; p. 1073.
- Hammock, Couch-. I. E. Palmer. No. 40,132; July 6; Gaz. vol. 144; p. 261.
- Hammock spreader ends, Cap for. W. J. McBride. No. 40,369; Nov. 23; Gaz. vol. 148; p. 1072.
- Hammock-stand. G. F. Hoffman. No. 39,975; May 4; Gaz. vol. 142; p. 269.
- Handkerchief or similar article. O. W. Wallis. No. 39,742; Jan. 5; Gaz. vol. 138; p. 233.
- Hat-trimming. C. E. Bright. No. 40,194; July 27; Gaz. vol. 144; p. 1073.
- Hat, Woman's. M. U. Metzger. No. 39,793; Jan. 26; Gaz. vol. 138; p. 949.
- Hats, Quill-holder for ladies'. H. W. Schwab. No. 40,404; Dec. 14; Gaz. vol. 149; p. 583.
- Horns, Case for moving parts of mechanically-actuated diaphragm-. M. R. Hutchison. No. 39,785; Jan. 19; Gaz. vol. 138; p. 754.
- Horns, Resonator and case for mechanically-actuated diaphragm-. M. R. Hutchison. No. 39,786; Jan. 19; Gaz. vol. 138; p. 754.
- Hose-reel. L. P. Whiteman. No. 40,107; June 29; Gaz. vol. 143; p. 1329.
- Hosiery, Article of. W. D. Butz. No. 40,066; June 15; Gaz. vol. 143; p. 847.
- Ice-cream-freezer casing. S. H. Bunnell. No. 40,381; Nov. 30; Gaz. vol. 148; p. 1327.
- Inkstand. C. H. Numan. Nos. 39,825-6; Feb. 16; Gaz. vol. 139; p. 715.
- Inkstand. C. H. Numan. No. 40,012; May 25; Gaz. vol. 142; p. 1094.
- Inkstand. S. E. Hilles. No. 40,125; July 6; Gaz. vol. 144; p. 260.
- Insulated electric wires, Branch box for. M. Havens, Jr. Nos. 39,761-8; Jan. 12; Gaz. vol. 138; pp. 507-8.
- Jar. S. S. Marvin. No. 39,773; Jan. 19; Gaz. vol. 138; p. 752.
- Jar. G. M. Fischer. No. 39,959; May 4; Gaz. vol. 142; p. 266.
- Jar. J. H. Schramm. No. 40,138; July 13; Gaz. vol. 144; p. 546.
- Jar, Preserving-. W. R. Passano. No. 39,897; Mar. 30; Gaz. vol. 140; p. 1193.
- Junction-box. H. Ashworth and A. D. Welch. No. 39,911; Apr. 6; Gaz. vol. 141; p. 271.
- Key. C. L. Ledin. No. 39,876; Mar. 16; Gaz. vol. 140; p. 737.
- Knitted fabric. E. Brown. No. 39,999; May 18; Gaz. vol. 142; p. 838.
- Knob-turner. J. A. Mussillon. No. 39,960; May 4; Gaz. vol. 142; p. 266.
- Label-blank. S. Cohn. No. 40,263; Sept. 14; Gaz. vol. 146; p. 492.
- Lace edging. W. E. Keach. No. 40,018; May 25; Gaz. vol. 142; p. 1095.
- Lamp. C. Hendrickson. No. 39,983; May 11; Gaz. vol. 142; p. 552.
- Lamp and support therefor, Electric. R. E. Richardson. No. 39,886; Mar. 16; Gaz. vol. 140; p. 739.
- Lamp, Automobile. O. J. Holt. No. 40,142; July 13; Gaz. vol. 144; p. 546.
- Lamp body, Inverted incandescent-gas-. F. C. Adams. No. 40,161; July 20; Gaz. vol. 144; p. 802.
- Lamp cluster, Incandescent-electric-. I. Libson. No. 40,163; July 20; Gaz. vol. 144; p. 803.
- Lamp, Gas-. C. W. Harrison. No. 40,056; June 15; Gaz. vol. 143; p. 845.
- Lamp, Gasolene-. O. A. Arneson. No. 39,789; Jan. 26; Gaz. vol. 138; p. 949.
- Lamp, Inverted hydrocarbon-vapor. J. J. Meyer. No. 40,015; May 25; Gaz. vol. 142; p. 1095.
- Lamp reflector, Arc-. M. J. Wohl and H. Hertzberg. No. 40,037; June 8; Gaz. vol. 143; p. 541.
- Lamp-shade. D. C. Ripley. No. 39,743; Jan. 5; Gaz. vol. 138; p. 234.
- Lamp-shade. J. A. Whaley. No. 39,772; Jan. 19; Gaz. vol. 138; p. 751.
- Lamp-shade. J. Kappler. Nos. 39,963-5; May 4; Gaz. vol. 142; p. 267.
- Lamp-shade. H. D. McFaddin. No. 39,984; May 11; Gaz. vol. 142; p. 552.
- Lamp-shade. J. Kappler. No. 40,022; June 1; Gaz. vol. 143; p. 242.
- Lamp-shade. J. Kappler. No. 40,035; June 8; Gaz. vol. 143; p. 541.
- Lamp-shade. R. D. Gould. No. 40,177; July 27; Gaz. vol. 144; p. 1070.
- Lamp-shade. G. A. Harter and J. C. Smith. No. 40,266; Sept. 21; Gaz. vol. 146; p. 702.
- Lamp-shade. J. Kappler. No. 40,267; Sept. 21; Gaz. vol. 146; p. 703.
- Lamp-shade. J. Kappler. No. 40,281; Oct. 5; Gaz. vol. 147; p. 217.
- Lamp-shade. J. Kappler. No. 40,345; Nov. 9; Gaz. vol. 148; p. 553.
- Lamp-shade. W. J. Gray. No. 40,379; Nov. 30; Gaz. vol. 148; p. 1327.
- Lamp-shade. E. A. Gillinder. No. 40,389; Dec. 7; Gaz. vol. 149; p. 292.
- Lamp shade, Incandescent-. D. M. Gilbert. No. 40,141; July 13; Gaz. vol. 144; p. 546.
- Lamp-shade panel. I. Greenwald. Nos. 40,241-3; Aug. 31; Gaz. vol. 145; p. 1236.
- Lamp shell, Arc-. M. J. Wohl and H. Hertzberg. No. 40,036; June 8; Gaz. vol. 143; p. 541.
- Lamp socket, Electric-. R. B. Benjamin. No. 40,380; Nov. 30; Gaz. vol. 148; p. 1327.
- Lamp, Street-. S. M. Colburn. No. 39,759; Jan. 12; Gaz. vol. 138; p. 506.
- Lavatory. J. S. Rowe. No. 39,910; Apr. 6; Gaz. vol. 141; p. 271.
- Lavatory-bowl. R. E. Crane. No. 40,401; Dec. 14; Gaz. vol. 149; p. 582.
- Layer-loop. J. Ricketts. No. 39,961; May 4; Gaz. vol. 142; p. 266.
- Lead-pencil. E. L. Schmitz. No. 39,758; Jan. 12; Gaz. vol. 138; p. 506.
- Leather, Embossed. A. Mittenhal. No. 40,146; July 13; Gaz. vol. 144; p. 547.
- Light-fixture. M. Schneider. Nos. 40,293-302; Oct. 12; Gaz. vol. 147; pp. 497-500.
- Light-shade. A. J. Sanford. No. 40,260; Sept. 14; Gaz. vol. 146; p. 492.
- Light-shade. A. J. Sanford. Nos. 40,282-4; Oct. 5; Gaz. vol. 147; p. 218.
- Light-shade. A. J. Sanford. Nos. 40,326-9; Nov. 2; Gaz. vol. 148; p. 263.



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- Light-shade. A. J. Sanford. Nos. 40,332-5; Nov. 2; Gaz. vol. 148; pp. 264-5.  
 Light-shade. A. J. Sanford. Nos. 40,343-4; Nov. 9; Gaz. vol. 148; pp. 552-3.  
 Light shade, Artificial-. K. Booth. No. 40,354; Nov. 16; Gaz. vol. 148; p. 816.  
 Light shade, Artificial-. K. Booth. No. 40,378; Nov. 30; Gaz. vol. 148; p. 1326.  
 Light shade, Artificial-. K. Booth. No. 40,408; Dec. 21; Gaz. vol. 149; p. 814.  
 Lighting-fixture. H. T. Howell. No. 40,054; June 15; Gaz. vol. 143; p. 845.  
 Lighting-fixture. M. W. Pitner. Nos. 40,214-22; Aug. 10; Gaz. vol. 145; pp. 495-7.  
 Lighting-fixture. W. Tures. No. 40,390; Dec. 7; Gaz. vol. 149; p. 292.  
 Lighting-fixtures, Plaque for. G. H. Ullman. Nos. 40,164-5; July 20; Gaz. vol. 144; p. 803.  
 Lock-trimming. C. H. Herrick. No. 39,780; Jan. 19; Gaz. vol. 138; p. 753.  
 Mandolin. A. Stathopoulos. No. 40,010; May 25; Gaz. vol. 142; p. 1094.  
 Mantel-cover. J. Aizenman. No. 40,371; Nov. 23; Gaz. vol. 148; p. 1073.  
 Map-casing. H. C. Staby. No. 40,232; Aug. 17; Gaz. vol. 145; p. 751.  
 Massaging-implement case. A. H. Apfel. No. 40,158; July 20; Gaz. vol. 144; p. 802.  
 Mat. H. C. Seipp. No. 39,803; Feb. 2; Gaz. vol. 139; p. 180.  
 Match-holder. G. Mueller. No. 40,052; June 15; Gaz. vol. 143; p. 844.  
 Match-receptacle. M. Wilfson. No. 39,907; Apr. 6; Gaz. vol. 141; p. 270.  
 Medal. W. H. Heath. No. 39,799; Feb. 2; Gaz. vol. 139; p. 130.  
 Medal. R. Marshall. No. 40,004; May 25; Gaz. vol. 142; p. 1093.  
 Medal. J. J. Mitchell. No. 40,098; June 29; Gaz. vol. 143; p. 1327.  
 Medal. E. Fuchs. No. 40,250; Sept. 7; Gaz. vol. 146; p. 242.  
 Medal or emblem. J. L. Charbneau. No. 39,866; Mar. 9; Gaz. vol. 140; p. 459.  
 Medal or emblem. W. D. Simmons. No. 40,068; June 22; Gaz. vol. 143; p. 1084.  
 Medallion. A. A. McRae. Nos. 39,946-53; May 4; Gaz. vol. 142; pp. 264-5.  
 Medallion. J. A. Sworbel. No. 39,954; May 4; Gaz. vol. 142; p. 265.  
 Medallion or similar article. A. B. Tebbs. No. 40,172; July 27; Gaz. vol. 144; p. 1069.  
 Metal ornament. J. W. Anthony. No. 40,008; May 25; Gaz. vol. 142; p. 1093.  
 Metal ornament. J. W. Anthony. No. 40,228; Aug. 17; Gaz. vol. 145; p. 751.  
 Mirror. C. L. Cruver. No. 40,148; July 20; Gaz. vol. 144; p. 800.  
 Mirror, Barber-shop. C. Pianschmidt. No. 39,853; Mar. 2; Gaz. vol. 140; p. 239.  
 Mirrors, brushes, and similar toilet articles, Back for. G. H. Berry. Nos. 40,314-15; Oct. 19; Gaz. vol. 147; p. 759.  
 Mirrors, brushes, or similar articles, Back for. J. R. Dean. No. 40,032; June 8; Gaz. vol. 143; p. 541.  
 Monument, Burial-. A. L. Just. No. 40,313; Oct. 12; Gaz. vol. 147; p. 502.  
 Monument, Memorial. A. Neuschotz. No. 39,864; Mar. 9; Gaz. vol. 140; p. 489.  
 Muff. T. H. Northrup. No. 40,169; July 20; Gaz. vol. 144; p. 804.  
 Neck-ruff form. T. P. Taylor. No. 39,830; Feb. 16; Gaz. vol. 139; p. 716.  
 Niche or shrine. J. Koenig. No. 39,822; Feb. 16; Gaz. vol. 139; p. 714.  
 Number and door-bell push-button, Casing for combined illuminated house-. R. J. Tugwell. No. 40,131; July 6; Gaz. vol. 144; p. 261.  
 Oil-burners, Prismatic glass case for. E. F. Gennert. No. 40,014; May 25; Gaz. vol. 142; p. 1094.  
 Organ or piano case. J. P. Tobin. No. 39,790; Jan. 26; Gaz. vol. 138; p. 949.  
 Oven-door. E. H. Huenefeld. Nos. 40,062-3; June 15; Gaz. vol. 143; p. 846.  
 Padlock. J. R. Dean. No. 39,745; Jan. 5; Gaz. vol. 138; p. 234.  
 Padlock. C. L. Ledin. Nos. 39,877-80; Mar. 16; Gaz. vol. 140; pp. 737-8.  
 Padlock. C. L. Ledin. Nos. 39,900-1; Mar. 30; Gaz. vol. 140; p. 1193.  
 Panel for light-shades. I. Greenwald. No. 40,317; Oct. 19; Gaz. vol. 147; p. 759.  
 Paper, Box-. C. H. Bowman. No. 39,913; Apr. 13; Gaz. vol. 141; p. 547.  
 Paper, Box-. M. Simpson. No. 39,914; Apr. 13; Gaz. vol. 141; p. 547.  
 Paper-lace mat. R. Gair. No. 40,322; Oct. 26; Gaz. vol. 147; p. 1020.  
 Paper or similar article, Wall-. N. G. Stratton. No. 40,096; June 22; Gaz. vol. 143; p. 1089.  
 Paper, Safety-. W. L. Sergeant. No. 40,362; Nov. 16; Gaz. vol. 148; p. 818.  
 Paper-weight. C. B. Loomis. No. 39,934; Apr. 20; Gaz. vol. 141; p. 847.  
 Paper, Wrapping-. A. Seligstein. No. 40,288; Oct. 5; Gaz. vol. 147; p. 219.  
 Pen or pencil retainer. W. F. Duryea. No. 39,989; May 18; Gaz. vol. 142; p. 837.  
 Pen or pencil retainer. W. F. Duryea. No. 40,082; June 22; Gaz. vol. 143; p. 1087.  
 Pencil-case. E. Pearl. No. 39,883; Mar. 16; Gaz. vol. 140; p. 738.  
 Pencil, Propelling-. C. W. Boman. No. 39,906; Apr. 6; Gaz. vol. 141; p. 270.  
 Phonograph-cabinet. P. Weber. No. 40,347; Nov. 9; Gaz. vol. 148; p. 553.  
 Phonograph-case. W. H. Hoschke. No. 40,137; July 13; Gaz. vol. 144; p. 546.  
 Picture-frame. E. Taube. No. 40,060; June 15; Gaz. vol. 143; p. 846.  
 Picture-frame. A. Kaiserman. No. 40,136; July 13; Gaz. vol. 144; p. 545.  
 Pipe. D. N. Hyman. No. 39,788; Jan. 26; Gaz. vol. 138; p. 948.  
 Pipe-coupling. J. C. Vogel. No. 39,859; Mar. 2; Gaz. vol. 140; p. 240.  
 Pipe, Smoking-. R. A. Zeltmacher. No. 39,852; Mar. 2; Gaz. vol. 140; p. 238.  
 Pipe, Tobacco-. J. M. Tatum. No. 40,209; Aug. 10; Gaz. vol. 145; p. 494.  
 Plaque. J. F. Thomas. No. 40,258; Sept. 14; Gaz. vol. 146; p. 491.  
 Plate or platter. L. Rouquart. No. 39,868; Mar. 9; Gaz. vol. 140; p. 490.  
 Plate or similar article. C. J. Ahrenfeldt. No. 39,916; Apr. 13; Gaz. vol. 141; p. 548.  
 Plate or similar article. C. A. May. No. 40,290; Oct. 12; Gaz. vol. 147; p. 497.  
 Plate or similar article. C. Ziegler. No. 40,397; Dec. 14; Gaz. vol. 149; p. 582.  
 Pocket-book holder. J. Babzt. Nos. 40,174-5; July 27; Gaz. vol. 144; pp. 1069-70.  
 Pool-table pocket. H. G. Smith. No. 40,286; Oct. 5; Gaz. vol. 147; p. 218.  
 Post-card. I. Grollman. No. 40,083; June 22; Gaz. vol. 143; p. 1087.  
 Pot or cowl for chimneys or ventilating-shafts. D. McLean. No. 39,871; Mar. 9; Gaz. vol. 140; p. 490.  
 Purse. F. L. Bradford. No. 39,824; Feb. 16; Gaz. vol. 139; p. 714.  
 Purse. F. L. Bradford. No. 39,955; May 4; Gaz. vol. 142; p. 265.  
 Purse and belt therefor. J. Lambert. No. 40,341; Nov. 9; Gaz. vol. 148; p. 552.  
 Rack for holding articles. J. W. Ball. No. 40,061; June 15; Gaz. vol. 143; p. 846.  
 Range, Cooking-. A. F. Harter. No. 40,272; Sept. 21; Gaz. vol. 146; p. 704.  
 Range, Gas-. W. M. Crane. No. 40,058; June 15; Gaz. vol. 143; p. 845.  
 Receptacle, Hanging. W. R. Noe. No. 40,387; Dec. 7; Gaz. vol. 149; p. 292.  
 Reflector or similar article. O. A. Mygatt. No. 40,055; June 15; Gaz. vol. 143; p. 845.  
 Reflector or similar article. O. A. Mygatt. No. 40,162; July 20; Gaz. vol. 144; p. 802.  
 Refrigerator. M. Rose. No. 40,042; June 8; Gaz. vol. 143; p. 542.  
 Refrigerator. H. Silver. No. 40,410; Dec. 21; Gaz. vol. 149; p. 815.  
 Refrigerator-door. H. Silver. Nos. 40,411-12; Dec. 21; Gaz. vol. 149; p. 815.  
 Refrigerator ice-chamber door. M. Rose. No. 40,041; June 8; Gaz. vol. 143; p. 542.  
 Refrigerator provision-chamber door. M. Rose. No. 40,040; June 8; Gaz. vol. 143; p. 542.  
 Ring. F. W. Ward. No. 39,851; Mar. 2; Gaz. vol. 140; p. 238.  
 Ring, Finger-. A. Locher and E. C. Kelly. No. 39,750; Jan. 12; Gaz. vol. 138; p. 505.  
 Ring, Finger-. S. Shown and W. B. Smith. No. 40,050; June 15; Gaz. vol. 143; p. 844.  
 Rubber overshoe. F. C. Hood. No. 39,862; Mar. 2; Gaz. vol. 140; p. 240.  
 Rug. E. G. Sauer. No. 39,783; Jan. 19; Gaz. vol. 138; p. 754.  
 Rug. F. A. Haas. Nos. 40,025-6; June 1; Gaz. vol. 143; p. 243.  
 Rug. W. A. Perry. No. 40,027; June 1; Gaz. vol. 143; p. 243.  
 Rug. A. Petzold. Nos. 40,093-5; June 22; Gaz. vol. 143; p. 1089.  
 Rug. A. Petzold. Nos. 40,112-13; June 29; Gaz. vol. 143; p. 1330.  
 Rug. H. C. White. No. 40,168; July 20; Gaz. vol. 144; p. 806.  
 Rug. A. Petzold. No. 40,200; Aug. 3; Gaz. vol. 145; p. 241.  
 Rug. A. Petzold. No. 40,255; Sept. 7; Gaz. vol. 146; p. 243.  
 Rug. F. A. Haas. No. 40,256; Sept. 7; Gaz. vol. 146; p. 243.  
 Rug. A. Petzold. No. 40,289; Oct. 5; Gaz. vol. 147; p. 219.  
 Sachet or perfume-container. E. Armant. No. 39,854; Mar. 2; Gaz. vol. 140; p. 239.

*Alphabetical list of designs—Continued.*

- Salt or pepper box. J. L. Stowicek. No. 39,752; Jan. 12; Gaz. vol. 138; p. 505.  
 Scale-frame. L. Jaenicher. No. 40,157; July 20; Gaz. vol. 144; p. 802.  
 Scale pointer, Weighing-. G. Walker. No. 39,782; Jan. 19; Gaz. vol. 138; p. 751.  
 Scarf-pins and brooches, Clutch for. C. P. Goldsmith. No. 40,279; Sept. 28; Gaz. vol. 146; p. 942.  
 Screw. W. E. Stevens. No. 40,418; Dec. 28; Gaz. vol. 149; p. 1102.  
 Seal. J. B. Wendt. No. 40,474; June 22; Gaz. vol. 143; p. 1085.  
 Shade, Artificial-light. K. Booth. No. 40,176; July 27; Gaz. vol. 144; p. 1070.  
 Shade, reflector, or similar article. O. A. Mygatt. Nos. 40,139-40; July 13; Gaz. vol. 144; p. 546.  
 Shade, reflector, or similar article. O. A. Mygatt. Nos. 40,178-83; July 27; Gaz. vol. 144; pp. 1070-1.  
 Shades and the like, Fabric for window-. A. A. Boeck. Nos. 40,303-5; Oct. 12; Gaz. vol. 147; p. 500.  
 Shaving-stand. E. O. Damen. No. 40,059; June 15; Gaz. vol. 143; p. 846.  
 Shears. C. W. Schedler. No. 40,316; Oct. 19; Gaz. vol. 147; p. 759.  
 Sheet-metal caddy-body blank. L. J. Freundt. No. 39,784; Jan. 19; Gaz. vol. 138; p. 754.  
 Sheet-metal plate. T. Cohn. No. 40,323; Oct. 26; Gaz. vol. 147; p. 1020.  
 Shingle, Metallic. G. H. Pedlar. No. 39,890; Mar. 23; Gaz. vol. 140; p. 987.  
 Shoe. J. W. Barna. No. 39,893; Mar. 23; Gaz. vol. 140; p. 988.  
 Shoe. G. Davis. No. 39,919; Apr. 13; Gaz. vol. 141; p. 548.  
 Shoe-clasp. F. Di Giola. No. 40,034; June 8; Gaz. vol. 143; p. 541.  
 Shoe-sole. F. R. McKenna. No. 39,747; Jan. 5; Gaz. vol. 138; p. 235.  
 Show-case. W. M. McLean. No. 40,166; July 20; Gaz. vol. 144; p. 803.  
 Sign. C. C. Wortley. Nos. 39,881-2; Mar. 16; Gaz. vol. 140; p. 738.  
 Sign. W. C. Henderson. No. 40,045; June 8; Gaz. vol. 143; p. 543.  
 Sign. G. E. Moray. No. 40,239; Aug. 31; Gaz. vol. 145; p. 1236.  
 Sign, Advertising-. J. M. Loughlin. No. 40,409; Dec. 21; Gaz. vol. 149; p. 815.  
 Sign-board. E. A. Clungeon. No. 40,144; July 13; Gaz. vol. 144; p. 547.  
 Sign, Illuminated. R. Dittke. No. 40,262; Sept. 14; Gaz. vol. 146; p. 492.  
 Signs, Character-plate for illuminated advertising-. W. N. McComb. No. 39,976; May 4; Gaz. vol. 142; p. 269.  
 Sink. F. H. Caldwell. No. 40,064; June 15; Gaz. vol. 143; p. 846.  
 Sink. F. H. Caldwell. No. 40,088; June 22; Gaz. vol. 143; p. 1088.  
 Slipper. L. Merz. No. 40,391; Dec. 7; Gaz. vol. 149; p. 292.  
 Soap-dish. J. P. Eustis. No. 39,774; Jan. 19; Gaz. vol. 138; p. 752.  
 Spool-holder for sewing-machine stands. W. C. Foley. No. 39,754; Jan. 12; Gaz. vol. 138; p. 505.  
 Spoon. A. F. Saunders. No. 40,078; June 22; Gaz. vol. 143; p. 1086.  
 Spoon. N. J. Baxter. No. 40,210; Aug. 10; Gaz. vol. 145; p. 494.  
 Spoon, fork, or similar article. S. Stohr. No. 39,771; Jan. 19; Gaz. vol. 138; p. 751.  
 Spoon, fork, or similar article. H. Hillbom. No. 39,836; Feb. 23; Gaz. vol. 139; p. 970.  
 Spoon, fork, or similar article. H. L. Wallace. No. 39,837; Feb. 23; Gaz. vol. 139; p. 970.  
 Spoon, fork, or similar article. S. Stohr. No. 39,838; Feb. 23; Gaz. vol. 139; p. 971.  
 Spoon, fork, or similar article. S. Stohr. No. 39,875; Mar. 16; Gaz. vol. 140; p. 737.  
 Spoon, fork, or similar article. H. Hillbom. No. 39,990; May 18; Gaz. vol. 142; p. 837.  
 Spoon, fork, or similar article. J. S. Woods. No. 39,991; May 18; Gaz. vol. 142; p. 837.  
 Spoon, fork, or similar article. G. Strohaker. No. 40,007; May 25; Gaz. vol. 142; p. 1093.  
 Spoon, fork, or similar article. H. P. Rogers. No. 40,122; July 6; Gaz. vol. 144; p. 259.  
 Spoon, fork, or similar article. S. Stohr. No. 40,123; July 6; Gaz. vol. 144; p. 259.  
 Spoon, fork, or similar article. G. L. Crowell, Jr. No. 40,124; July 6; Gaz. vol. 144; p. 260.  
 Spoon, fork, or similar article. G. L. Crowell, Jr. No. 40,350; Nov. 16; Gaz. vol. 148; p. 815.  
 Spoon, fork, or similar article. W. A. Jameson. No. 40,351; Nov. 16; Gaz. vol. 148; p. 816.  
 Spoon, fork, or similar article. G. P. Tilton. No. 40,372; Nov. 30; Gaz. vol. 148; p. 1326.  
 Spoon or fork. W. B. H. Dowse. No. 39,738; Jan. 5; Gaz. vol. 138; p. 233.  
 Spoon or fork. G. L. Turner. No. 40,338; Nov. 9; Gaz. vol. 148; p. 551.  
 Spoon or similar article. W. A. Jameson. No. 40,103; June 29; Gaz. vol. 143; p. 1328.  
 Spoon or similar article. E. Meyers. No. 40,352; Nov. 16; Gaz. vol. 148; p. 816.  
 Spoons, forks, and similar articles, Handle for. G. P. Ittig. No. 40,257; Sept. 14; Gaz. vol. 146; p. 491.  
 Spoons, forks, or similar articles, Handle for. J. E. Birmingham. No. 39,800; Feb. 2; Gaz. vol. 139; p. 180.  
 Spoons, forks, or similar articles, Handle for. J. H. Harmstone. No. 39,834; Feb. 23; Gaz. vol. 139; p. 970.  
 Spoons, forks, or similar articles, Handle for. F. Habensack. No. 40,031; June 8; Gaz. vol. 143; p. 540.  
 Spoons, forks, or similar articles, Handle for. A. A. Southwick. Nos. 40,339-40; Nov. 9; Gaz. vol. 148; p. 552.  
 Spoons, forks, or similar articles, Handle for. C. Osborne. No. 40,353; Nov. 16; Gaz. vol. 148; p. 816.  
 Spoons, forks, or similar articles, Handle for. C. Osborne. No. 40,394; Dec. 14; Gaz. vol. 149; p. 581.  
 Spoons, forks, or similar articles, Handle of. J. E. Birmingham. Nos. 39,739-40; Jan. 5; Gaz. vol. 138; p. 233.  
 Spoons, forks, or similar articles, Handle of. J. E. Birmingham. No. 39,751; Jan. 12; Gaz. vol. 138; p. 505.  
 Spoons, forks, or similar articles, Handle of. S. J. Large. No. 39,920; Apr. 20; Gaz. vol. 141; p. 845.  
 Spoons, forks, or similar articles, Handle of. W. C. Codman. Nos. 40,119-20; July 6; Gaz. vol. 144; pp. 258-9.  
 Spoons, forks, or similar articles, Handle of. T. Heath. No. 40,121; July 6; Gaz. vol. 144; p. 259.  
 Spoons, forks, or similar articles, Handle of. J. E. Birmingham. Nos. 40,330-1; Nov. 2; Gaz. vol. 148; p. 264.  
 Spur-body. F. C. Monier. No. 40,086; June 22; Gaz. vol. 143; p. 1088.  
 Stand, Display-. H. L. Beach. No. 39,816; Feb. 9; Gaz. vol. 139; p. 445.  
 Statue-support. C. P. Monash. No. 39,769; Jan. 12; Gaz. vol. 138; p. 508.  
 Statuette. E. Schwarz and J. W. Gerz. No. 39,904; Apr. 6; Gaz. vol. 141; p. 270.  
 Statuette. M. E. Yeaton. No. 40,416; Dec. 28; Gaz. vol. 149; p. 1102.  
 Stein. C. P. Nutter. No. 40,395; Dec. 14; Gaz. vol. 149; p. 551.  
 Stein or mug. W. G. Titus. No. 39,957; May 4; Gaz. vol. 142; p. 266.  
 Stick-pin. H. M. Willis. No. 39,867; Mar. 9; Gaz. vol. 140; p. 490.  
 Stove. T. R. Kennedy and E. J. King. No. 39,748; Jan. 5; Gaz. vol. 138; p. 235.  
 Stove. J. C. Hosford. Nos. 39,828-9; Feb. 16; Gaz. vol. 139; pp. 715-16.  
 Stove. E. W. Anthony. No. 39,888; Mar. 16; Gaz. vol. 140; p. 739.  
 Stove. G. W. Cope and W. L. Bertram. No. 39,969; May 4; Gaz. vol. 142; p. 268.  
 Stove. B. Will. Nos. 40,023-4; June 1; Gaz. vol. 143; pp. 242-3.  
 Stove. G. W. Cope and W. L. Bertram. No. 40,271; Sept. 21; Gaz. vol. 146; p. 703.  
 Stove. B. Will. No. 40,292; Oct. 12; Gaz. vol. 147; p. 497.  
 Stove. H. W. Beattie. No. 40,356; Nov. 16; Gaz. vol. 148; p. 817.  
 Stove. F. U. Long and M. L. Packer. No. 40,382; Nov. 30; Gaz. vol. 148; p. 1327.  
 Stove, Gas-. F. U. Long and M. L. Packer. No. 40,368; Nov. 23; Gaz. vol. 148; p. 1072.  
 Stove grate, Vapor-. C. Nelson. No. 39,925; Apr. 20; Gaz. vol. 141; p. 846.  
 Stove, Heating-. A. F. Harter. No. 40,264; Sept. 14; Gaz. vol. 146; p. 492.  
 Stove top-plate. G. H. Droege. No. 40,225; Aug. 10; Gaz. vol. 145; p. 498.  
 Stove, Vapor-. L. Strassburger and C. Nelson. No. 39,967; May 4; Gaz. vol. 142; p. 267.  
 Stove, Vapor-. S. Sternau and C. Nelson. No. 39,968; May 4; Gaz. vol. 142; p. 267.  
 Surgical dressings, Fibrous sheet material for. W. M. Stone. No. 40,046; June 8; Gaz. vol. 143; p. 543.  
 Sweater. M. C. Bronson. No. 39,894; Mar. 23; Gaz. vol. 140; p. 988.  
 Syringes, Reservoir for fountain-. D. W. Keith. No. 40,377; Nov. 30; Gaz. vol. 148; p. 1326.  
 Table. E. C. R. Ellsworth. No. 40,191; July 27; Gaz. vol. 144; p. 1072.  
 Table, Game-. C. Hine. No. 40,092; June 22; Gaz. vol. 143; p. 1089.  
 Tables, Centertiece for. I. P. Richards. No. 40,108; June 29; Gaz. vol. 143; p. 1329.  
 Tablet, Memorial-. C. J. Dieges. No. 40,097; June 22; Gaz. vol. 143; p. 1089.  
 Talking-machine cabinet. J. C. English. Nos. 39,842-4; Feb. 23; Gaz. vol. 139; pp. 971-2.  
 Talking-machine cabinet. E. R. Johnson. Nos. 39,971-4; May 4; Gaz. vol. 142; pp. 268-9.  
 Talking-machine-record cabinet. L. F. Geissler. Nos. 40,398-9; Dec. 14; Gaz. vol. 149; p. 582.  
 Talking-machine sounding-board. L. P. Valiquet. No. 40,130; July 6; Gaz. vol. 144; p. 261.  
 Tea-ball. H. A. Weihman. No. 40,155; July 20; Gaz. vol. 144; p. 801.  
 Tea-cup. F. Baxter. No. 40,365; Nov. 23; Gaz. vol. 148; p. 1072.



*Alphabetical list of designs—Continued.*

- Teapot or similar article. W. C. Codman. No. 40,366; Nov. 23; Gaz. vol. 148; p. 1072.  
 Textile fabric. O. Kirschbaum. No. 40,273; Sept. 21; Gaz. vol. 146; p. 704.  
 Textile fabric. J. Korzinek. Nos. 40,306-12; Oct. 12; Gaz. vol. 147; pp. 501-2.  
 Tile, Interlocking. G. H. Quennard. No. 40,358; Nov. 16; Gaz. vol. 148; p. 817.  
 Tiling. A. Siverson. No. 40,065; June 15; Gaz. vol. 143; p. 847.  
 Tiling. A. W. Nilsson. Nos. 40,201-2; Aug. 3; Gaz. vol. 145; p. 241.  
 Tobacco-case humidifier. H. Weihman. No. 40,105; June 29; Gaz. vol. 143; p. 1328.  
 Toilet-compound receptacle. E. Horter. No. 40,076; June 22; Gaz. vol. 143; p. 1086.  
 Toilet compounds, Receptacle for. R. Ruzicka. No. 40,053; June 15; Gaz. vol. 143; p. 844.  
 Tongs member. F. S. Hyatt. No. 39,778; Jan. 19; Gaz. vol. 138; p. 753.  
 Tool casing, Pneumatic-. H. E. Le Gendre. No. 40,235; Aug. 24; Gaz. vol. 145; p. 1007.  
 Top, Double. C. L. Cruver. No. 39,757; Jan. 12; Gaz. vol. 138; p. 506.  
 Toy. F. M. Snow. No. 40,011; May 25; Gaz. vol. 142; p. 1094.  
 Toy. W. S. Miners. No. 40,170; July 20; Gaz. vol. 144; p. 804.  
 Toy. F. J. Rosenberg. No. 40,173; July 27; Gaz. vol. 144; p. 1069.  
 Toy bank. A. C. Williams. No. 40,245; Aug. 31; Gaz. vol. 145; p. 1237.  
 Toy casing, Mechanical-. R. S. Bauer. No. 39,776; Jan. 19; Gaz. vol. 138; p. 752.  
 Toy figure. A. Schoenhut. No. 39,775; Jan. 19; Gaz. vol. 138; p. 752.  
 Toy figure. B. M. Pessinger. No. 40,129; July 6; Gaz. vol. 144; p. 261.  
 Toy figure. O. Lingohr. No. 40,342; Nov. 9; Gaz. vol. 148; p. 552.  
 Tray or similar article. W. C. Codman. No. 40,240; Aug. 31; Gaz. vol. 145; p. 1236.  
 Trellis, Plant-. T. Sneiderger. No. 40,087; June 22; Gaz. vol. 143; p. 1088.  
 Trimming. W. Helbig. No. 39,831; Feb. 16; Gaz. vol. 139; p. 716.  
 Trimming. W. Helbig. Nos. 39,846-7; Feb. 23; Gaz. vol. 139; p. 972.  
 Trimming, Woven. E. Rump. No. 40,248; Aug. 31; Gaz. vol. 145; p. 1237.  
 Type, Font of. S. V. Smith. No. 39,889; Mar. 23; Gaz. vol. 140; p. 987.  
 Type, Font of. W. A. Schraubstadter. No. 39,936; Apr. 20; Gaz. vol. 141; p. 847.  
 Type, Font of printing-. W. A. Parker. No. 39,935; Apr. 20; Gaz. vol. 141; p. 847.  
 Type ornament. E. R. Estep. No. 39,817; Feb. 9; Gaz. vol. 139; p. 445.  
 Urn. G. M. Fischer. No. 40,259; Sept. 14; Gaz. vol. 146; p. 492.  
 Vault-light. E. R. Jackson. No. 39,744; Jan. 5; Gaz. vol. 138; p. 234.  
 Vehicle-body. W. H. Emond. No. 40,143; July 13; Gaz. vol. 144; p. 547.  
 Vehicle-body. E. H. Remde. No. 40,187; July 27; Gaz. vol. 144; p. 1072.  
 Vehicle-body. W. H. Emond. No. 40,420; Dec. 28; Gaz. vol. 149; p. 1103.  
 Veil-pin, ribbon-pin, or similar article. Z. Freund. No. 39,741; Jan. 5; Gaz. vol. 138; p. 233.  
 Vending-machine casing. A. P. Watt. No. 40,043; June 8; Gaz. vol. 143; p. 542.  
 Vending-machine casing. A. P. Watt. No. 40,285; Oct. 5; Gaz. vol. 147; p. 218.  
 Vessel. C. A. Blanchard. No. 39,896; Mar. 30; Gaz. vol. 140; p. 1192.  
 Wall-covering. K. L. Prinz. No. 40,192; July 27; Gaz. vol. 144; p. 1072.  
 Wall-register. G. S. Auer. No. 40,038; June 8; Gaz. vol. 143; p. 542.  
 Washtub-support. E. J. Korman and M. H. Walker. No. 39,892; Mar. 23; Gaz. vol. 140; p. 987.  
 Watch-dial. F. G. Gruen. No. 40,280; Oct. 5; Gaz. vol. 147; p. 217.  
 Watch-dial. E. Hart. No. 40,393; Dec. 14; Gaz. vol. 149; p. 581.  
 Watch-fob. G. E. Davis. No. 39,988; May 18; Gaz. vol. 142; p. 836.  
 Watch or clock dial. L. N. Long. No. 40,246; Aug. 31; Gaz. vol. 145; p. 1237.  
 Water-tank. R. E. Crane. No. 40,188; July 27; Gaz. vol. 144; p. 1072.  
 Woven edging. E. Rump. No. 40,133; July 6; Gaz. vol. 144; p. 261.

# ALPHABETICAL LIST OF TRADE-MARKS.

Abrasive, Crushed-steel. Pittsburgh Crushed Steel Company. No. 73,380; Apr. 13; Gaz. vol. 141; p. 563.  
 Abrasive materials and tools. Carborundum Company. No. 75,154; Sept. 7; Gaz. vol. 146; p. 252.  
 Abrasive polishing material. American Mineral Cleanser Co. No. 75,149; Sept. 7; Gaz. vol. 146; p. 252.  
 Acetylene, &c., Substances for purifying. G. F. Jaubert. No. 75,668; Nov. 2; Gaz. vol. 148; p. 275.  
 Acid-resists and etching solutions. Etching Shop. No. 73,763; May 18; Gaz. vol. 142; p. 851.  
 Adhesive, Liquid. Robeson Process Company. No. 75,485; Oct. 5; Gaz. vol. 147; p. 232.  
 Adhesive, Liquid. Robeson Process Company. No. 75,487; Oct. 5; Gaz. vol. 147; p. 232.  
 Adhesives. National Gum & Mica Co. No. 72,877; Mar. 2; Gaz. vol. 140; p. 249.  
 Agricultural machinery. A. E. Cook. No. 76,227; Dec. 28; Gaz. vol. 149; p. 1116.  
 Air, Composition for preventing leakage of. Auto Tire Security Company. No. 75,423; Oct. 5; Gaz. vol. 147; p. 231.  
 Air-humidifiers. S. W. Cramer. No. 74,123; June 22; Gaz. vol. 143; p. 1103.  
 Alcohol, Denatured. Hammond Distilling Co. No. 75,962; Nov. 30; Gaz. vol. 148; p. 1340.  
 Ale, beer, porter, and stout. Yonkers Brewery. No. 74,304; June 29; Gaz. vol. 143; p. 1341.  
 Ale, Ginger-. J. C. Hebditch. No. 73,471; Apr. 20; Gaz. vol. 141; p. 863.  
 Ale, Ginger-. O. Altpeter. No. 74,717; Aug. 3; Gaz. vol. 145; p. 252.  
 Ale, stout, porter, lager-beer, and malt extracts. W. Albrecht. Nos. 72,646-7; Feb. 9; Gaz. vol. 139; p. 458.  
 Alfalfa-meal or ground hay used as a stock food. M. C. Peters. No. 72,989; Mar. 9; Gaz. vol. 140; p. 502.  
 Alkaloidal veterinary solutions. E. Bischoff. No. 74,543; July 20; Gaz. vol. 143; p. 814.  
 Alloy, Metallic. Manganese Bronze & Brass Company. No. 74,831; Aug. 10; Gaz. vol. 145; p. 509.  
 Ammonia, Carbonate and chlorid of. Chance & Hunt. No. 75,246; Sept. 14; Gaz. vol. 146; p. 503.  
 Ammonia, Toilet. Eieto Company. No. 74,407; July 13; Gaz. vol. 144; p. 557.  
 Anesthetic. Farbenfabriken of Elberfeld Company. No. 73,892; June 1; Gaz. vol. 143; p. 253.  
 Anticorrosive and antifouling compositions. Holzapfels Limited. No. 75,313; Sept. 21; Gaz. vol. 146; p. 716.  
 Antiparasitic preparation for plants. Dr. L. C. Marquart. No. 72,331; Jan. 19; Gaz. vol. 138; p. 763.  
 Antipyretic, antineuralgic, and antirheumatic. Farbenfabriken of Elberfeld Company. No. 74,092; June 15; Gaz. vol. 143; p. 860.  
 Antipretics, narcotics, and soporifics. Walker Pharmacal Company. No. 73,483; Apr. 20; Gaz. vol. 141; p. 863.  
 Antiseptic and disinfectant. Oakland Chemical Company. No. 75,613; Oct. 26; Gaz. vol. 147; p. 1031.  
 Antiseptic and disinfectant compounds. M. M. Dubin. No. 74,443; July 13; Gaz. vol. 144; p. 558.  
 Antiseptic and healing solution. Eieto Company. No. 74,800; Aug. 10; Gaz. vol. 145; p. 508.  
 Antiseptic, Bacterial. Lederle Antitoxin Laboratories. No. 76,252; Dec. 28; Gaz. vol. 149; p. 1116.  
 Antiseptic cleaning compound. W. G. Clark. No. 75,039; Aug. 31; Gaz. vol. 145; p. 1245.  
 Antiseptic compound in tablet form. W. W. Brown. No. 72,185; Jan. 5; Gaz. vol. 138; p. 253.  
 Antiseptic healing-ointment for the skin. M. P. E. Saltzman. No. 72,525; Feb. 2; Gaz. vol. 139; p. 193.  
 Antiseptic lotion for the skin. Esbencott Chemical Laboratories. No. 72,517; Feb. 2; Gaz. vol. 139; p. 193.  
 Antiseptic mouth-wash. C. J. Enebuske. No. 74,279; June 29; Gaz. vol. 143; p. 1340.  
 Antiseptic ointment. Bear Manufacturing Company. No. 75,033; Aug. 31; Gaz. vol. 145; p. 1245.  
 Antiseptic ointment for human and veterinary use. W. Cooper & Nephews. No. 73,289; Apr. 6; Gaz. vol. 141; p. 282.  
 Antiseptic powder. Paris Medicine Company. No. 73,523; Apr. 27; Gaz. vol. 141; p. 1158.  
 Antiseptic powder. A. Smith. No. 75,629; Oct. 26; Gaz. vol. 147; p. 1032.  
 Antiseptic powder. Sharp & Dohme. No. 75,881; Nov. 23; Gaz. vol. 148; p. 1082.  
 Antiseptic powders. B. S. Bergey. No. 72,444; Jan. 26; Gaz. vol. 138; p. 960.  
 Antiseptic preparation. C. J. Enebuske. No. 73,973; June 8; Gaz. vol. 143; p. 557.  
 Antiseptic salves. E. Bischoff. No. 73,318; Apr. 13; Gaz. vol. 141; p. 561.  
 Antiseptic solution. Hutzler Brothers Co. of Baltimore City. No. 76,250; Dec. 28; Gaz. vol. 149; p. 1116.  
 Antiseptic sphenoids. McCoy, Howe Company. No. 75,167; Sept. 7; Gaz. vol. 146; p. 252.  
 Antiseptic tablets. Hall-Miller Company. No. 72,192; Jan. 5; Gaz. vol. 138; p. 254.  
 Antiseptic toilet-seats. M. J. Hubeny. No. 74,636; July 27; Gaz. vol. 144; p. 1086.  
 Antiseptic wash. J. F. Allison. No. 75,241; Sept. 14; Gaz. vol. 146; p. 502.  
 Anvils. Illinois Iron & Bolt Co. No. 75,084; Aug. 31; Gaz. vol. 145; p. 1246.  
 Apparatus, Certain. J. Lang. No. 74,346; July 6; Gaz. vol. 144; p. 272.  
 Apples. W. H. Underwood. No. 72,317; Jan. 19; Gaz. vol. 138; p. 763.  
 Asbestos composition. Norristown Magnesia & Company. No. 72,382; Jan. 19; Gaz. vol. 138; p. 765.  
 Asbestos slate-like building materials, Fireproof insulating. United Asbestos Company. No. 73,349; Apr. 13; Gaz. vol. 141; p. 562.  
 Asphalt, Refined. Barber Asphalt Paving Company. Nos. 72,740-3; Feb. 16; Gaz. vol. 139; p. 726.  
 Asphalt roofing. National Roofing Co. No. 74,145; June 22; Gaz. vol. 143; p. 1104.  
 Asphalt roofing. Ford Manufacturing Co. No. 75,396; Sept. 28; Gaz. vol. 146; p. 954.  
 Asphaltic paving and roofing materials. Barber Asphalt Paving Company. No. 74,115; June 22; Gaz. vol. 143; p. 1103.  
 Astringent and antiseptic. Cudahy Packing Company. No. 76,248; Dec. 28; Gaz. vol. 149; p. 1116.  
 Augers, auger, machine, and expansive bits, and bit-braces. W. A. Ives Manufacturing Co. No. 73,964; June 1; Gaz. vol. 143; p. 255.  
 Automobile wind-shields. English & Mersick Co. No. 75,076; Aug. 31; Gaz. vol. 145; p. 1246.  
 Automobiles. B. G. von Rottweiler. No. 72,108; Jan. 5; Gaz. vol. 138; p. 251.  
 Automobiles. Overland Automobile Company. No. 72,436; Jan. 26; Gaz. vol. 138; p. 960.  
 Automobiles. Chalmers-Detroit Motor Co. No. 72,998; Mar. 9; Gaz. vol. 140; p. 502.  
 Automobiles. H. S. Houpt. No. 74,067; June 15; Gaz. vol. 143; p. 860.  
 Automobiles. Welch Motor Car Company. No. 74,993; Aug. 24; Gaz. vol. 145; p. 1018.  
 Automobiles and their parts. Ford Motor Company. No. 74,530; July 20; Gaz. vol. 144; p. 814.  
 Axles, Vehicle-. Sheldon Axle Company. No. 75,191; Sept. 14; Gaz. vol. 146; p. 501.  
 Bacon. L. Burk. No. 75,201; Sept. 14; Gaz. vol. 146; p. 501.  
 Bacon. John Morrell & Company. No. 75,232; Sept. 14; Gaz. vol. 146; p. 502.  
 Bacon. L. Burk. No. 75,691; Nov. 2; Gaz. vol. 148; p. 276.  
 Bacon, Breakfast-. John Morrell & Company. No. 75,085; Aug. 31; Gaz. vol. 145; p. 1246.  
 Bactericide and antiseptic. Farbenfabriken of Elberfeld Company. No. 73,891; June 1; Gaz. vol. 143; p. 253.  
 Badges, buckles, and belt-pins. F. B. Rhodes. No. 73,748; May 18; Gaz. vol. 142; p. 851.  
 Bagging, Jute. American Manufacturing Company. Nos. 75,480-1; Oct. 5; Gaz. vol. 147; p. 232.  
 Bags, Cotton. Columbia Cotton Mill Co. No. 73,701; May 11; Gaz. vol. 142; p. 564.  
 Bags, Hand-. Adolph Raudnitz Company. No. 72,264; Jan. 12; Gaz. vol. 138; p. 524.  
 Bags, pocket-books, purses, and straps for the same, Hand-. J. W. Anthony. No. 74,994; Aug. 24; Gaz. vol. 145; p. 1018.  
 Bags, satchels, and pocket-books, Hand-. W. Rueter. No. 72,257; Jan. 12; Gaz. vol. 138; p. 524.  
 Bags, satchels, and pocket-books, Hand-. W. Rueter. No. 74,616; July 27; Gaz. vol. 144; p. 1086.  
 Baking-powder. C. E. Mechel. No. 72,492; Jan. 26; Gaz. vol. 138; p. 961.  
 Baking-powder. A. Schilling & Company. No. 72,699; Feb. 16; Gaz. vol. 139; p. 725.  
 Baking-powder. Hunt's Perfect Baking Powder Company. No. 73,619; May 4; Gaz. vol. 142; p. 284.  
 Baking-powder. E. L. Dudley. No. 74,798; Aug. 10; Gaz. vol. 145; p. 508.  
 Baking-powder. J. A. Folger & Company. No. 74,820; Aug. 10; Gaz. vol. 145; p. 509.  
 Baking-powder. Powell-Sanders Co. No. 74,837; Aug. 10; Gaz. vol. 145; p. 509.  
 Baking-powder. Sterling Chemical Works. No. 74,874; Aug. 17; Gaz. vol. 145; p. 759.  
 Baking-powder. R. B. Davis Company. No. 74,973; Aug. 24; Gaz. vol. 145; p. 1018.  
 Baking-powder. Royal Baking Powder Company. No. 75,853; Nov. 23; Gaz. vol. 148; p. 1081.  
 Baking-powder. Sea Gull Specialty Company. No. 76,094; Dec. 14; Gaz. vol. 149; p. 598.  
 Baking-powder. Royal Baking Powder Company. No. 76,260; Dec. 28; Gaz. vol. 149; p. 1117.  
 Balls, Base-. A. G. Spalding & Bros. No. 74,402; July 13; Gaz. vol. 144; p. 557.  
 Balls, Base-. A. J. Reach Company. No. 74,791; Aug. 10; Gaz. vol. 145; p. 508.



*Alphabetical list of trade-marks—Continued.*

- Balls, Golf. A. G. Spalding & Bros. Nos. 72,411-12; Jan. 26; Gaz. vol. 138; p. 959.  
 Balls, Golf. A. G. Spalding & Bros. No. 72,738; Feb. 16; Gaz. vol. 139; p. 726.  
 Balls, Golf. Wright & Ditson. No. 74,424; July 13; Gaz. vol. 144; p. 557.  
 Balls, Golf. F. L. Slazenger. No. 74,667; July 27; Gaz. vol. 144; p. 1087.  
 Bananas. Vaccaro Bros. & Co. No. 73,688; May 11; Gaz. vol. 142; p. 563.  
 Bandages, Finger. B. A. Paroubek. Nos. 74,870-1; Aug. 17; Gaz. vol. 145; p. 759.  
 Barbers' and other chairs. Head-rest attachment for. Kandle Head Rest Company. No. 72,250; Jan. 12; Gaz. vol. 138; p. 524.  
 Baskets, Fruit and vegetable. Virginia Manufacturing Company. No. 74,398; July 6; Gaz. vol. 144; p. 273.  
 Bath-tubs, closet-bowls, urinals, &c. Universal Sanitary Mfg. Co. No. 74,785; Aug. 10; Gaz. vol. 145; p. 508.  
 Batiste. Tootle, Wheeler & Motter Mercantile Company. No. 72,246; Apr. 6; Gaz. vol. 141; p. 281.  
 Batiste. Tootle, Wheeler & Motter Mercantile Company. No. 72,248; Apr. 6; Gaz. vol. 141; p. 281.  
 Batteries, Dry. Iron City Engineering Company. No. 76,180; Dec. 21; Gaz. vol. 149; p. 830.  
 Batteries, Dry-cell. Stackpole Battery Co. Nos. 73,201-2; Mar. 30; Gaz. vol. 140; p. 1203.  
 Batteries, Dry-cell. Illinois Battery Company. No. 75,083; Aug. 31; Gaz. vol. 145; p. 1246.  
 Batteries, Electric dry. E. Exposito. No. 74,764; Aug. 10; Gaz. vol. 145; p. 507.  
 Batteries, Storage. Electric Storage Battery Company. No. 72,708; Feb. 16; Gaz. vol. 139; p. 725.  
 Bearings and parts thereof. Schweinfurter Präzisions-Kugel-Lager-Werke Fichtel & Sachs. No. 74,185; June 22; Gaz. vol. 143; p. 1105.  
 Bed-springs. Cream City Bedding Company. No. 72,127; Jan. 5; Gaz. vol. 138; p. 252.  
 Bed-springs. Anchor Spring & Bedding Co. No. 73,917; June 1; Gaz. vol. 143; p. 254.  
 Beef-broth cubes. C. W. Rademacher. No. 74,327; July 6; Gaz. vol. 144; p. 271.  
 Beef-cracklings. Flavell Co. No. 73,764; May 18; Gaz. vol. 142; p. 851.  
 Beer. Home Brewing Company. No. 72,223; Jan. 12; Gaz. vol. 138; p. 523.  
 Beer. C. & J. Michel Brewing Co. No. 72,307; Jan. 19; Gaz. vol. 138; p. 763.  
 Beer. Yale Brewing Co. No. 72,814; Feb. 23; Gaz. vol. 139; p. 986.  
 Beer. Wagner Brewing Co. No. 72,952; Mar. 2; Gaz. vol. 140; p. 252.  
 Beer. M. B. Foster & Sons. No. 73,139; Mar. 16; Gaz. vol. 140; p. 753.  
 Beer. Piel Bro's. No. 73,480; Apr. 20; Gaz. vol. 141; p. 863.  
 Beer. Kansas City Breweries Co. No. 73,642; May 4; Gaz. vol. 142; p. 285.  
 Beer. D. G. Yuengling & Son. No. 73,856; May 25; Gaz. vol. 142; p. 1110.  
 Beer. W. Gerst. No. 73,942; June 1; Gaz. vol. 143; p. 254.  
 Beer. Union Brewing & Malting Co. No. 73,962; June 1; Gaz. vol. 143; p. 255.  
 Beer. New Orleans Brewing Co. No. 74,021; June 8; Gaz. vol. 143; p. 558.  
 Beer. Berghoff Brewing Association. No. 74,360; July 6; Gaz. vol. 144; p. 272.  
 Beer. G. Heileman Brewing Co. No. 74,371; July 6; Gaz. vol. 144; p. 273.  
 Beer. Pabst Brewing Company. No. 74,480; July 13; Gaz. vol. 144; p. 559.  
 Beer. J. Ruppert. No. 74,484; July 13; Gaz. vol. 144; p. 559.  
 Beer. Bartholomay Brewery Company. Nos. 75,151-2; Sept. 7; Gaz. vol. 146; p. 252.  
 Beer. Consumers Brewing Company. No. 75,184; Sept. 14; Gaz. vol. 146; p. 501.  
 Beer. Actiengesellschaft Paulanerbräu Salvatorbrauerei. No. 75,221; Sept. 14; Gaz. vol. 146; p. 502.  
 Beer. West Side Brewery Co. No. 75,239; Sept. 14; Gaz. vol. 146; p. 502.  
 Beer. Bartholomay Brewery Company. No. 75,293; Sept. 21; Gaz. vol. 146; p. 715.  
 Beer. Consumers Brewing Company. No. 75,526; Oct. 12; Gaz. vol. 147; p. 514.  
 Beer. Thomass Gebrüder, Bierbrauerei zum Thomasbräu. No. 75,586; Oct. 19; Gaz. vol. 147; p. 768.  
 Beer. Keeley Brewing Co. No. 75,699; Nov. 2; Gaz. vol. 148; p. 276.  
 Beer. Central Consumers Company. No. 75,798; Nov. 16; Gaz. vol. 148; p. 828.  
 Beer. Independent Brewing Company. No. 76,025; Dec. 7; Gaz. vol. 149; p. 306.  
 Beer. Berghoff Brewing Association. No. 76,102; Dec. 14; Gaz. vol. 149; p. 598.  
 Beer. Iroquois Brewing Co. No. 76,119; Dec. 14; Gaz. vol. 149; p. 598.  
 Beer and ale. W. Albrecht. No. 73,609; May 4; Gaz. vol. 142; p. 284.  
 Beer, Lager-. Kips Bay Brewing & Malting Co. No. 73,563; Apr. 27; Gaz. vol. 141; p. 1159.  
 Beer, Lager-. J. & R. Tennent. No. 75,903; Nov. 23; Gaz. vol. 148; p. 1083.  
 Beer, Lager-. Schmulbach Brewing Company. No. 75,909; Nov. 23; Gaz. vol. 148; p. 1083.  
 Beer, Non-intoxicating. Thieme & Wagner Brewing Co. No. 72,316; Jan. 19; Gaz. vol. 138; p. 763.  
 Beer, Pilsen. Bürgerliches Bräuhaus in Pilsen. No. 75,301; Sept. 21; Gaz. vol. 146; p. 716.  
 Beer-preserved. E. Beanes. Nos. 73,669-70; May 11; Gaz. vol. 142; p. 563.  
 Beer, weiss-beer, ale, and porter, Lager-. Engel and Schmid Br'w'g Co. No. 73,939; June 1; Gaz. vol. 143; p. 254.  
 Bells, gongs, and chimes. Bevin Brothers Manufacturing Company. No. 75,466; Oct. 5; Gaz. vol. 147; p. 232.  
 Belt and pulley-wheel dressings. C. R. Fischer. No. 72,422; Jan. 26; Gaz. vol. 138; p. 959.  
 Belt-dressing. Charles A. Schieren Company. Nos. 72,419-20; Jan. 26; Gaz. vol. 138; p. 959.  
 Belt-dressing. S. B. J. Robertson. No. 72,524; Feb. 2; Gaz. vol. 139; p. 193.  
 Belt-hooks to belts, Tools for attaching. Flexible Belt Lacing Company. No. 72,924; Mar. 2; Gaz. vol. 140; p. 251.  
 Belts. H. W. Levy. No. 72,617; Feb. 9; Gaz. vol. 139; p. 457.  
 Belts for personal wear. Bridgeport Webbing Company. No. 75,760; Nov. 16; Gaz. vol. 148; p. 827.  
 Belting. Peerless Rubber Manufacturing Company. No. 73,141; Mar. 16; Gaz. vol. 140; p. 753.  
 Belting and hose. Peerless Rubber Manufacturing Company. No. 72,565; Feb. 2; Gaz. vol. 139; p. 194.  
 Belting and hose. Peerless Rubber Manufacturing Company. No. 72,668; Feb. 9; Gaz. vol. 139; p. 459.  
 Belting and hose. New York Belting and Packing Company. No. 73,022; Mar. 9; Gaz. vol. 140; p. 503.  
 Belting and hose. New York Belting and Packing Company. No. 73,140; Mar. 16; Gaz. vol. 140; p. 753.  
 Belting and hose. New York Belting and Packing Company. No. 73,228; Mar. 30; Gaz. vol. 140; p. 1204.  
 Belting and hose. Rosendale-Reddaway Belting & Hose Co. No. 75,733; Nov. 9; Gaz. vol. 148; p. 565.  
 Belting and machinery packing. Peerless Rubber Manufacturing Company. No. 72,567; Feb. 2; Gaz. vol. 139; p. 194.  
 Belting. Balata. New York Leather Belting Co. No. 75,875; Nov. 23; Gaz. vol. 148; p. 1082.  
 Belting, hose, and machinery packing. Peerless Rubber Manufacturing Company. No. 72,879; Mar. 2; Gaz. vol. 140; p. 249.  
 Belting, hose, and machinery packing. New York Belting and Packing Company. No. 73,021; Mar. 9; Gaz. vol. 140; p. 503.  
 Belting, hose, and machinery packing. New York Belting and Packing Company. No. 73,033; Mar. 9; Gaz. vol. 140; p. 503.  
 Belting, hose, and machinery packing. Mechanical Rubber Company. No. 73,046; Mar. 9; Gaz. vol. 140; p. 503.  
 Belting, hose, and machinery packing. New York Belting and Packing Company. No. 73,164; Mar. 23; Gaz. vol. 140; p. 997.  
 Belting, hose, and machinery packings. Revere Rubber Company. No. 72,809; Feb. 23; Gaz. vol. 139; p. 986.  
 Belting. Leather. Jewell Belting Company. No. 75,963; Nov. 30; Gaz. vol. 148; p. 1340.  
 Belting made of textile fabric impregnated with rubber. N. J. Car Spring & Rubber Co. No. 72,157; Jan. 5; Gaz. vol. 138; p. 253.  
 Belting, pump-cups, valves, and washers. Leather. L. P. Degen Belting Company. No. 73,553; Apr. 27; Gaz. vol. 141; p. 1159.  
 Beverage. McJunkin-Straight Dairy Company. No. 72,929; Mar. 2; Gaz. vol. 140; p. 251.  
 Beverage and flavoring-syrup therefor, Carbonated non-alcoholic. Jersey Cream Co. No. 75,229; Sept. 14; Gaz. vol. 146; p. 502.  
 Beverage, Carbonated. American Manufacturing Co. No. 75,290; Sept. 21; Gaz. vol. 146; p. 715.  
 Beverage, Carbonated. A. D. Lewis. No. 76,051; Dec. 7; Gaz. vol. 149; p. 307.  
 Beverage, Non-alcoholic. Scales-Wilson Co. No. 73,808; May 18; Gaz. vol. 142; p. 852.  
 Beverage, Non-alcoholic carbonated. Ebling Company. No. 75,900; Nov. 23; Gaz. vol. 148; p. 1083.  
 Beverage, Non-alcoholic ginger. Bouvier Specialty Co. No. 74,795; Aug. 10; Gaz. vol. 145; p. 508.  
 Beverage, Non-intoxicating malt. New South Brewery & Ice Co. No. 73,298; Apr. 6; Gaz. vol. 141; p. 283.  
 Beverage, Non-intoxicating malt. New Orleans Brewing Company. No. 75,813; Nov. 16; Gaz. vol. 148; p. 828.  
 Beverage, Phosphate. H. N. Cowgill. No. 75,156; Sept. 7; Gaz. vol. 146; p. 252.  
 Beverage, Soda. R. R. Armstrong. No. 74,540; July 20; Gaz. vol. 144; p. 814.  
 Beverage with cherry flavor. Lima Fruit Juice Company. No. 73,720; May 11; Gaz. vol. 142; p. 564.  
 Beverages and syrups therefor. M. N. Haglund. No. 74,551; July 20; Gaz. vol. 144; p. 814.  
 Beverages, Carbonated. Andrew Lohr Bottling Co. No. 74,654; July 27; Gaz. vol. 144; p. 1087.  
 Beverages, Certain. Dalzell Company. No. 72,147; Jan. 5; Gaz. vol. 138; p. 252.  
 Beverages, Certain. Rotschild & Company. No. 72,390; Jan. 19; Gaz. vol. 138; p. 765.  
 Beverages, Certain. Iowa Tonic Company. No. 73,842; May 25; Gaz. vol. 142; p. 1109.  
 Beverages, Certain. A. Gilka. No. 76,042; Dec. 7; Gaz. vol. 149; p. 306.  
 Beverages, Non-alcoholic carbonated. Electric Bottling Co. No. 72,451; Jan. 26; Gaz. vol. 138; p. 960.  
 Beverages, Non-alcoholic extract used in making. J. Dixon & Co. No. 75,694; Nov. 2; Gaz. vol. 148; p. 276.  
 Bib and faucet handles, Self-closing. H. Mueller Manufacturing Company. No. 72,222; Jan. 12; Gaz. vol. 138; p. 523.

*Alphabetical list of trade-marks—Continued.*

- Billiard and pool table cloth. Kansas City Billiard Table Manufacturing Company. No. 72,538; Feb. 2; Gaz. vol. 139; p. 193.
- Binder, Loose-leaf. F. H. Crump. No. 74,882; Aug. 17; Gaz. vol. 145; p. 760.
- Binders, Loose-leaf. Sieber & Trussell Manufacturing Co. No. 74,209; June 22; Gaz. vol. 143; p. 1105.
- Biscuit. C. D. Boss & Son. No. 74,760; Aug. 10; Gaz. vol. 145; p. 507.
- Biscuit. National Biscuit Company. No. 75,812; Nov. 16; Gaz. vol. 148; p. 828.
- Biscuit. National Biscuit Company. No. 76,154; Dec. 21; Gaz. vol. 149; p. 829.
- Biscuits. Huntley & Palmers. No. 74,611; July 27; Gaz. vol. 144; p. 1085.
- Biscuits, Tea-. Consumers Biscuit & Manufacturing Co. No. 72,216; Jan. 12; Gaz. vol. 138; p. 523.
- Biscuits, Tea-. Robert A. Johnston Company. No. 74,051; June 15; Gaz. vol. 143; p. 859.
- Biscuits, Dog-. Sterling Biscuit Company. No. 72,501; Jan. 26; Gaz. vol. 138; p. 962.
- Bismuth bitannate, (a pharmaceutical preparation.) Heyden Chemical Works. No. 72,248; Jan. 12; Gaz. vol. 138; p. 524.
- Bitters. F. J. Mame. No. 72,202; Jan. 5; Gaz. vol. 138; p. 254.
- Bitters. Loewenthal-Strauss Co. No. 72,518; Feb. 2; Gaz. vol. 139; p. 193.
- Bitters. Herman Toser Company. No. 73,826; May 25; Gaz. vol. 142; p. 1109.
- Bitters. W. Koerner & Co. No. 75,964; Nov. 30; Gaz. vol. 148; p. 1340.
- Bitters, Spirituous. W. Koerner & Co. No. 76,027; Dec. 7; Gaz. vol. 149; p. 306.
- Blankets, flannels, and woolen piece goods. Mandelert Mercantile Co. No. 73,896; June 1; Gaz. vol. 143; p. 253.
- Blasting-machines and electric batteries. Eastern Dynamite Company. No. 73,039; Mar. 9; Gaz. vol. 140; p. 503.
- Bleaching agents. Castner Electrolytic Alkali Company. No. 76,018; Dec. 7; Gaz. vol. 149; p. 306.
- Bleaching fluid. Roessler & Hasslacher Chemical Co. No. 75,545; Oct. 12; Gaz. vol. 147; p. 514.
- Bleaching-powder. F. Cash. No. 72,601; Feb. 9; Gaz. vol. 139; p. 457.
- Blennostatic and internal antiseptic. Farbenfabriken of Elberfeld Company. No. 75,307; Sept. 21; Gaz. vol. 146; p. 716.
- Blood-pressure-raising preparation, Contracting styptic. Cudahy Packing Company. No. 72,580; Feb. 2; Gaz. vol. 139; p. 195.
- Blood-purifier. H. H. Hyams. No. 72,819; Feb. 23; Gaz. vol. 139; p. 986.
- Blood-purifier. Thomas Bros. No. 72,849; Mar. 2; Gaz. vol. 140; p. 249.
- Boats, Motor-. Electric Launch Co. No. 74,278; June 29; Gaz. vol. 143; p. 1340.
- Boiler compound. Becker & Cie. No. 73,760; May 18; Gaz. vol. 142; p. 851.
- Boiler compounds. Haggerty Refining Company. No. 75,825; Nov. 16; Gaz. vol. 148; p. 829.
- Boiler-scale, Compound for removing and preventing. Schoellkopf, Hartford & Hanna Company. No. 72,976; Mar. 9; Gaz. vol. 140; p. 501.
- Boiler-tube cleaners. M. H. Thompson Manufacturing Company. No. 76,152; Dec. 21; Gaz. vol. 149; p. 829.
- Bollers. New Orleans Acid & Fertilizer Company. No. 73,337; Apr. 13; Gaz. vol. 141; p. 562.
- Bollers. New York Central Iron Works Company. No. 73,338; Apr. 13; Gaz. vol. 141; p. 562.
- Bollers. United States Radiator Company. No. 74,750; Aug. 3; Gaz. vol. 145; p. 253.
- Boilers and heaters. American Radiator Company. No. 75,777; Nov. 16; Gaz. vol. 148; p. 827.
- Boilers for heating by steam and hot water. McCrum-Howell Company. No. 74,073; June 15; Gaz. vol. 143; p. 860.
- Bolt clippers or cutters. H. K. Porter. No. 74,534; July 20; Gaz. vol. 144; p. 814.
- Bolts and screws. Buffalo Bolt Company. No. 73,356; Apr. 13; Gaz. vol. 141; p. 562.
- Bone-meal. Liebig's Extract of Meat Company. No. 74,737; Aug. 3; Gaz. vol. 145; p. 252.
- Bookcases, Sectional. O. C. S. Olsen Co. No. 72,878; Mar. 2; Gaz. vol. 140; p. 249.
- Books and magazines, Printed. S. S. McClure Company. No. 75,170; Sept. 7; Gaz. vol. 146; p. 252.
- Books and papers, Press-copy. William Mann Company. No. 73,792; May 18; Gaz. vol. 142; p. 832.
- Books of fiction. M. Stein. No. 72,133; Jan. 5; Gaz. vol. 138; p. 252.
- Books of fiction. M. Witmark & Sons. No. 74,031; June 8; Gaz. vol. 143; p. 559.
- Books of fiction. Reilly & Britton Company. No. 74,892; Aug. 17; Gaz. vol. 145; p. 760.
- Books of fiction and pictorial illustrations. M. Witmark & Sons. No. 75,092; Aug. 31; Gaz. vol. 145; p. 1247.
- Books of poetry and prose. G. P. Putnam's Sons. No. 73,798; May 18; Gaz. vol. 142; p. 852.
- Books, pens, filing-cases, papers, &c., Blank. H. R. Mann. No. 75,126; Sept. 7; Gaz. vol. 146; p. 251.
- Books, Printed. A. de Gaudenzi & Co. No. 74,130; June 22; Gaz. vol. 143; p. 1103.
- Boot and shoe heel cushion. G. R. Stetson. No. 72,883; Mar. 2; Gaz. vol. 140; p. 249.
- Boots and shoes. Edwin Clapp & Son. No. 75,659; Nov. 2; Gaz. vol. 148; p. 275.
- Boots and shoes. Cloth, rubber, and leather. C. E. Webber. No. 72,298; Jan. 12; Gaz. vol. 138; p. 525.
- Boots and shoes composed of leather and cloth. L. B. Evans' Son Company. No. 72,425; Jan. 26; Gaz. vol. 138; p. 960.
- Boots and shoes. Leather. H. W. Crocker Shoe Co. No. 72,151; Jan. 5; Gaz. vol. 138; p. 253.
- Boots and shoes. Leather. Joseph Strasburger Co. No. 72,282; Jan. 12; Gaz. vol. 138; p. 525.
- Boots and shoes. Leather. Packard & Field. No. 72,384; Jan. 19; Gaz. vol. 138; p. 765.
- Boots and shoes. Leather. Fred Douglass Shoe Co. No. 72,404; Jan. 26; Gaz. vol. 138; p. 959.
- Boots and shoes. Leather. Joseph Strasburger Co. No. 72,405; Jan. 26; Gaz. vol. 138; p. 959.
- Boots and shoes. Leather. A. E. Little & Company. No. 72,426; Jan. 26; Gaz. vol. 138; p. 960.
- Boots and shoes. Leather. G. C. Farnum. No. 72,711; Feb. 16; Gaz. vol. 139; p. 725.
- Boots and shoes. Leather. Haynes Henson Shoe Company. No. 72,714; Feb. 16; Gaz. vol. 139; p. 725.
- Boots and shoes. Leather. Selz, Schwab & Company. No. 72,729; Feb. 16; Gaz. vol. 139; p. 726.
- Boots and shoes. Leather. United Shoe Machinery Company. No. 72,735; Feb. 16; Gaz. vol. 139; p. 726.
- Boots and shoes. Leather. John Meier Shoe Co. No. 72,770; Feb. 16; Gaz. vol. 139; p. 727.
- Boots and shoes. Leather. E. F. Logan. No. 72,874; Mar. 2; Gaz. vol. 140; p. 249.
- Boots and shoes. Leather. A. A. Rosenbush & Co. No. 72,882; Mar. 2; Gaz. vol. 140; p. 249.
- Boots and shoes. Leather. W. H. Walker & Company. No. 73,154; Mar. 23; Gaz. vol. 140; p. 997.
- Boots and shoes. Leather. Bradley & Metcalf Co. No. 73,319; Apr. 13; Gaz. vol. 141; p. 561.
- Boots and shoes. Leather. A. A. Williams. No. 73,503; Apr. 27; Gaz. vol. 141; p. 1157.
- Boots and shoes. Leather. J. S. Coward. No. 73,661; May 11; Gaz. vol. 142; p. 563.
- Boots and shoes. Leather. H. J. Putnam. No. 73,663; May 11; Gaz. vol. 142; p. 563.
- Boots and shoes. Leather. Roberts, Johnson, & Rand Shoe Company. No. 73,664; May 11; Gaz. vol. 142; p. 568.
- Boots and shoes. Leather. Whitcomb & Paine Co. No. 73,750; May 18; Gaz. vol. 142; p. 857.
- Boots and shoes. Leather. M. Goldenberg. No. 74,223; June 29; Gaz. vol. 143; p. 1339.
- Boots and shoes. Leather. Regal Shoe Company. No. 74,389; July 6; Gaz. vol. 144; p. 273.
- Boots and shoes. Leather. Arnold Shoe Company. No. 74,753; Aug. 10; Gaz. vol. 145; p. 507.
- Boots and shoes. Leather. Rickard-Gregory Shoe Co. No. 74,780; Aug. 10; Gaz. vol. 145; p. 507.
- Boots and shoes. Leather. Baltimore Shoe House. No. 75,069; Aug. 31; Gaz. vol. 145; p. 1246.
- Boots and shoes. Leather. Condon Bros. & Co. No. 75,247; Sept. 14; Gaz. vol. 146; p. 503.
- Boots and shoes. Leather. Glenn Shoe Company. No. 75,312; Sept. 21; Gaz. vol. 146; p. 716.
- Boots and shoes. Leather. Whitcomb & Paine Co. No. 75,387; Sept. 28; Gaz. vol. 146; p. 954.
- Boots and shoes. Leather. Henry C. Werner Co. No. 75,572; Oct. 19; Gaz. vol. 147; p. 767.
- Boots and shoes. Leather. Henry C. Werner Co. No. 75,852; Nov. 23; Gaz. vol. 148; p. 1081.
- Boots and shoes. Leather and rubber. R. C. Whittinghill. No. 72,953; Mar. 2; Gaz. vol. 140; p. 252.
- Boots and shoes made of leather, Waterproof. Florsheim Shoe Company. No. 73,586; May 4; Gaz. vol. 142; p. 283.
- Boots and shoes made wholly and in part of leather and cloth, Women's and misses'. Monadnock Shoe Co. No. 73,336; Apr. 13; Gaz. vol. 141; p. 561.
- Boots and shoes, Men's and boys' leather. Northern Shoe Co. No. 75,943; Nov. 30; Gaz. vol. 148; p. 1339.
- Boots and shoes, Men's leather. Simmons Boot and Shoe Co. No. 73,305; Apr. 6; Gaz. vol. 141; p. 283.
- Boots and shoes, Top facings and stays for. J. G. McCarter Co. No. 73,366; Apr. 13; Gaz. vol. 141; p. 562.
- Boots, shoes, and slippers. Blum Shoe Mfg. Co. No. 73,078; Mar. 16; Gaz. vol. 140; p. 751.
- Boots, shoes, and slippers. I. Blyn & Sons. Nos. 75,252-3; Sept. 14; Gaz. vol. 146; p. 503.
- Boots, shoes, and slippers. James A. Banister Company. No. 75,855; Nov. 23; Gaz. vol. 148; p. 1081.
- Boots, shoes, and slippers, Leather. Morse & Rogers. No. 72,182; Jan. 5; Gaz. vol. 138; p. 253.
- Boots, shoes, and slippers, Leather. Dizer-Copeland Co. No. 72,516; Feb. 2; Gaz. vol. 139; p. 193.
- Boots, shoes, and slippers, Leather. Strout, Stritter & Co. No. 72,884; Mar. 2; Gaz. vol. 140; p. 249.
- Boots, shoes, and slippers of leather, rubber, and canvas. James A. Banister Company. No. 75,904; Nov. 23; Gaz. vol. 148; p. 1083.
- Boots, shoes, harness, &c., Preparation for waterproofing. W. C. Tacey. No. 74,079; June 15; Gaz. vol. 143; p. 860.
- Boots, shoes, sandals, and slippers. R. H. White Company. No. 75,671; Nov. 2; Gaz. vol. 148; p. 275.
- Borax. Sterling Borax Company. No. 74,975; Aug. 24; Gaz. vol. 145; p. 1018.
- Bottle-stoppers. E. C. Marks. No. 73,828; May 25; Gaz. vol. 142; p. 1109.
- Bottles and apparatus, Milk-modifying. J. W. Helzer & Co. No. 74,376; July 6; Gaz. vol. 144; p. 273.
- Bottles, Glass. Alart & McGuire. No. 74,058; June 15; Gaz. vol. 143; p. 859.



*Alphabetical list of trade-marks—Continued.*

- Bottles, Prescription-. McPike Drug Company. No. 73,014; Mar. 9; Gaz. vol. 140; p. 502.  
 Bowls, cocks, valves, and fittings. Flushvalve Company. No. 76,194; Dec. 28; Gaz. vol. 149; p. 1115.  
 Box and case openers. Herculever Company. No. 72,363; Jan. 19; Gaz. vol. 138; p. 764.  
 Boxes. Russell Mfg. Co. No. 75,009; Aug. 24; Gaz. vol. 145; p. 1019.  
 Boxes, Berry, fruit, and vegetable. J. E. Coles. No. 75,390; Sept. 28; Gaz. vol. 146; p. 954.  
 Bracelets. Standard Button Company. No. 75,585; Oct. 19; Gaz. vol. 147; p. 768.  
 Braid. Julius Loewenthal & Co. No. 74,377; July 6; Gaz. vol. 144; p. 273.  
 Brake-shoes. American Brake Shoe & Foundry Company. Nos. 74,793-4; Aug. 10; Gaz. vol. 145; p. 508.  
 Brakes and clutches for vehicles. Trenton Rubber Manufacturing Company. No. 74,491; July 13; Gaz. vol. 144; p. 559.  
 Brandies, Cognac. Martell & Company. No. 72,228; Jan. 12; Gaz. vol. 138; p. 523.  
 Brandy. B. Kasproicz. Nos. 75,858-61; Nov. 23; Gaz. vol. 148; p. 1081.  
 Brandy, California grape. H. Goldschmidt. No. 72,311; Jan. 19; Gaz. vol. 138; p. 763.  
 Bread. Lamon Brothers. No. 72,225; Jan. 12; Gaz. vol. 138; p. 523.  
 Bread. C. Gunzenhauser. No. 73,711; May 11; Gaz. vol. 142; p. 564.  
 Bread. Gordon & Pagel Bread Co. No. 73,744; May 18; Gaz. vol. 142; p. 851.  
 Bread. A. M. Wood. No. 74,004; June 8; Gaz. vol. 143; p. 558.  
 Bread. Boston Baking Company. No. 74,038; June 15; Gaz. vol. 143; p. 859.  
 Bread. Freihofer Vienna Baking Company. No. 74,531; July 20; Gaz. vol. 144; p. 814.  
 Bread. Bryce Baking Company. No. 74,757; Aug. 10; Gaz. vol. 145; p. 507.  
 Bread. G. S. Ward. No. 75,104; Aug. 31; Gaz. vol. 145; p. 1247.  
 Bread. C. F. Faelchle. No. 75,118; Sept. 7; Gaz. vol. 146; p. 251.  
 Bread. W. Franke. No. 75,227; Sept. 14; Gaz. vol. 146; p. 502.  
 Bread. Brunner Baking Company. No. 75,737; Nov. 9; Gaz. vol. 148; p. 565.  
 Bread. W. R. Jennings. No. 75,805; Nov. 16; Gaz. vol. 148; p. 828.  
 Bread, crackers, cakes. Middleton Baking Company. No. 73,451; Apr. 20; Gaz. vol. 141; p. 862.  
 Bread, Potato-. H. J. Mees. No. 72,229; Jan. 12; Gaz. vol. 138; p. 523.  
 Bread, Wheat-. Bakers' Specialty Advertising Co. No. 72,891; Mar. 2; Gaz. vol. 140; p. 249.  
 Breads. California Baking Company. No. 73,752; May 18; Gaz. vol. 142; p. 851.  
 Breads, ples, and cakes. H. J. Mees. No. 75,749; Nov. 9; Gaz. vol. 148; p. 566.  
 Breakfast-bacon. John Morrell & Company. No. 74,556; July 20; Gaz. vol. 144; p. 814.  
 Brewer's grain. Dried. Atlantic Export Company. No. 75,889; Nov. 23; Gaz. vol. 148; p. 1082.  
 Brick. Blue Ridge Enamelled Brick Co. No. 76,136; Dec. 21; Gaz. vol. 149; p. 829.  
 Brick and building-blocks. Kittanning Brick & Fire Clay Co. No. 73,552; Apr. 27; Gaz. vol. 141; p. 1159.  
 Brick, Fire-. Massillon Stone & Fire Brick Co. No. 74,386; July 6; Gaz. vol. 144; p. 273.  
 Bricks, tiles, terra-cotta, wall-coping, and chimney-pots. J. P. B. Fiske. Nos. 75,531-2; Oct. 12; Gaz. vol. 147; p. 514.  
 Bronze ingots and castings. P. S. Reeves & Son. No. 73,683; May 11; Gaz. vol. 142; p. 563.  
 Bronze ingots and castings. P. S. Reeves & Son. No. 74,535; July 20; Gaz. vol. 144; p. 814.  
 Bronze ingots and castings. P. S. Reeves & Son. No. 75,544; Oct. 12; Gaz. vol. 147; p. 514.  
 Brooms. American Broom & Brush Co. No. 72,348; Jan. 19; Gaz. vol. 138; p. 764.  
 Brooms. Lee Broom & Duster Company. Nos. 72,459-61; Jan. 26; Gaz. vol. 138; p. 961.  
 Brooms. Lee Broom & Duster Company. Nos. 74,458-67; July 13; Gaz. vol. 144; pp. 558-9.  
 Brooms. Lee Broom & Duster Company. Nos. 74,827-8; Aug. 10; Gaz. vol. 145; p. 509.  
 Brooms and brushes. Amsterdam Broom Co. Nos. 73,309-12; Apr. 13; Gaz. vol. 141; p. 561.  
 Brooms and brushes. H. J. Fink. No. 73,327; Apr. 13; Gaz. vol. 141; p. 561.  
 Brooms and brushes. Amsterdam Broom Co. No. 73,403; Apr. 20; Gaz. vol. 141; p. 861.  
 Brushes. S. E. Howard's Son & Co. No. 73,167; Mar. 23; Gaz. vol. 140; p. 997.  
 Brushes. S. E. Howard's Son & Co. No. 73,830; May 25; Gaz. vol. 142; p. 1109.  
 Brushes. W. A. Tottle & Co. No. 75,830; Nov. 16; Gaz. vol. 148; p. 829.  
 Brushes and combs for tinting the hair. Combined. E. G. Helm. No. 75,850; Nov. 23; Gaz. vol. 148; p. 1081.  
 Brushes and parts thereof, Tooth-. Fiber Tooth Brush Company. No. 76,204; Dec. 28; Gaz. vol. 149; p. 1115.  
 Brushes and parts thereof, Fountain-. Posterity Company. No. 72,169; Jan. 5; Gaz. vol. 138; p. 253.  
 Brushes, Paint-. Hanlon & Goodman Co. Nos. 74,228-9; June 29; Gaz. vol. 143; p. 1339.  
 Brushes, Painters'. Rennous Kleinle & Co. of Baltimore City. No. 72,573; Feb. 2; Gaz. vol. 139; p. 194.  
 Brushes, Painters'. Wadsworth, Howland & Co. No. 75,328; Sept. 21; Gaz. vol. 146; p. 716.  
 Brushes, Toilet-. Howard Brush Company. Nos. 75,725-6; Nov. 9; Gaz. vol. 148; p. 565.  
 Bug and roach destroyer. C. Fiebert. No. 72,793; Feb. 23; Gaz. vol. 139; p. 985.  
 Builders' hardware and door-checks. Yale & Towne Mfg. Co. No. 74,425; July 13; Gaz. vol. 144; p. 557.  
 Building materials. J. B. King & Co. No. 76,120; Dec. 14; Gaz. vol. 149; p. 598.  
 Building materials, Certain. Union Roofing & Manufacturing Company. No. 73,874; May 25; Gaz. vol. 142; p. 1110.  
 Building materials, Certain. Ideal Concrete Machinery Company. No. 76,196; Dec. 28; Gaz. vol. 149; p. 1115.  
 Building metal, Ornamental. California Artistic Metal & Wire Co. No. 73,204; Mar. 30; Gaz. vol. 140; p. 1203.  
 Bunting. United States Bunting Co. No. 76,241; Dec. 28; Gaz. vol. 149; p. 1116.  
 Burners for use in vehicle-lamps, Acetylene-. R. E. Dietz Company. No. 75,235; Sept. 14; Gaz. vol. 146; p. 502.  
 Butter. David Cole Creamery Co. No. 72,308; Jan. 19; Gaz. vol. 138; p. 763.  
 Butter. Fish & Lenox Co. No. 72,902; Mar. 2; Gaz. vol. 140; p. 251.  
 Butter. Ryan & Newton Co. No. 73,115; Mar. 16; Gaz. vol. 140; p. 752.  
 Butter. Riley & Dietrich. No. 73,600; May 4; Gaz. vol. 142; p. 284.  
 Butter. W. H. Constable. No. 74,122; June 22; Gaz. vol. 143; p. 1103.  
 Butter. Scheer, Grandi & Co. No. 75,946; Nov. 30; Gaz. vol. 148; p. 1339.  
 Butter and cream. H. W. Belden. No. 73,930; June 1; Gaz. vol. 143; p. 254.  
 Butter and ice-cream. Commercial Cream Co. No. 73,361; Apr. 13; Gaz. vol. 141; p. 562.  
 Butter, Creamery-. Blackburn-Browne Company. No. 74,633; July 27; Gaz. vol. 144; p. 1086.  
 Butter, eggs, and cheese. Zenith Butter and Egg Co. No. 73,760; May 18; Gaz. vol. 142; p. 851.  
 Button-molds. J. W. Schloss & Company. No. 73,770; May 18; Gaz. vol. 142; p. 851.  
 Buttons. Waldes & Co. No. 75,263; Sept. 14; Gaz. vol. 146; p. 503.  
 Buttons. J. W. Schloss & Company. No. 75,998; Dec. 7; Gaz. vol. 149; p. 305.  
 Buttons and links, Cuff. Parks Bros. & Rogers. No. 74,351; July 6; Gaz. vol. 144; p. 272.  
 Buttons, Bone. Rogers & Hubbard Co. No. 74,422; July 13; Gaz. vol. 144; p. 557.  
 Buttons, Composition. Steinkern-Industrie G. m. b. H. No. 74,078; June 15; Gaz. vol. 143; p. 860.  
 Buttons, Crochet-covered. M. Close. No. 74,683; Aug. 3; Gaz. vol. 145; p. 251.  
 Buttonhole-gimp. J. Friedman. No. 75,844; Nov. 23; Gaz. vol. 148; p. 1081.  
 Cake. T. H. Wimbush. No. 72,466; Jan. 26; Gaz. vol. 138; p. 961.  
 Cake, Sponge-. A. Lansing. No. 73,370; Apr. 13; Gaz. vol. 141; p. 562.  
 Calcimine. Muralo Company. No. 73,126; Mar. 16; Gaz. vol. 140; p. 753.  
 Calcimine. Muralo Company. No. 73,198; Mar. 30; Gaz. vol. 140; p. 1203.  
 Calcimine. Muralo Company. No. 74,292; June 29; Gaz. vol. 143; p. 1341.  
 Calcimine. Muralo Company. Nos. 74,347-8; July 6; Gaz. vol. 144; p. 272.  
 Calcimine. Muralo Company. No. 74,474; July 13; Gaz. vol. 144; p. 559.  
 Calcium carbid. American Carbolite Company. No. 72,782; Feb. 23; Gaz. vol. 139; p. 985.  
 Calcium carbid. Union Carbide Company. No. 73,153; Mar. 23; Gaz. vol. 140; p. 997.  
 Cameras and parts thereof, developing-paper, &c. Albaugh-Dover Co. No. 75,349; Sept. 28; Gaz. vol. 146; p. 953.  
 Can-openers. N. J. Hawks. No. 75,746; Nov. 9; Gaz. vol. 148; p. 566.  
 Cans, Metal. Southern Can Company of Baltimore City. No. 73,630; May 4; Gaz. vol. 142; p. 284.  
 Cans, Oil-. R. E. Bloomer. No. 73,816; May 25; Gaz. vol. 142; p. 1109.  
 Canned and dried fruits and canned vegetables. Griffin & Skelley Company. No. 72,795; Feb. 23; Gaz. vol. 139; p. 985.  
 Canned and evaporated fruits. Griffin & Skelley Company. No. 73,005; Mar. 9; Gaz. vol. 140; p. 502.  
 Canned and fresh oysters. H. F. Hemingway & Co. No. 73,444; Apr. 20; Gaz. vol. 141; p. 862.  
 Canned and preserved fruits and vegetables. Napa Canning Co. No. 76,168; Dec. 21; Gaz. vol. 149; p. 830.  
 Canned beans and tomatoes. N. C. Barwise Packing Company. No. 72,333; Jan. 19; Gaz. vol. 138; p. 763.  
 Canned clams. A. & R. Loggie. No. 74,775; Aug. 10; Gaz. vol. 145; p. 507.  
 Canned clams. A. & R. Loggie. No. 75,509; Oct. 12; Gaz. vol. 147; p. 513.  
 Canned clams. Andrew Kerr Co. No. 76,062; Dec. 14; Gaz. vol. 149; p. 597.

*Alphabetical list of trade-marks—Continued.*

- Canned corn. Smith-Yingling Company. No. 74,782; Aug. 10; Gaz. vol. 145; p. 508.  
 Canned corn, peas, and tomatoes. Smith-Yingling Company. No. 75,100; Aug. 31; Gaz. vol. 145; p. 1247.  
 Canned corn, sauer-kraut, and tomatoes. Klindt-Geiger Canning Co. No. 74,506; July 20; Gaz. vol. 144; p. 813.  
 Canned corn, sauer-kraut, and tomatoes. Klindt-Geiger Canning Co. No. 74,615; July 27; Gaz. vol. 144; p. 1086.  
 Canned, dried, and evaporated fruits. Griffin & Skelley Company. No. 72,961; Mar. 9; Gaz. vol. 140; p. 501.  
 Canned, dried, and evaporated fruits and vegetables and canned and dried fish. Corby Commission Company. No. 73,534; Apr. 27; Gaz. vol. 141; p. 1158.  
 Canned, dried, and pickled fruits. Western Grocer Company. No. 75,220; Sept. 14; Gaz. vol. 146; p. 502.  
 Canned food products. Cincinnati Abattoir Co. No. 76,163; Dec. 21; Gaz. vol. 149; p. 830.  
 Canned foods. Sears & Nichols Company. No. 76,000; Dec. 7; Gaz. vol. 149; p. 305.  
 Canned fruit. California Fruit Cannery Association. No. 76,174; Dec. 21; Gaz. vol. 149; p. 830.  
 Canned fruits. California Fruit Cannery Association. No. 73,507; Apr. 27; Gaz. vol. 141; p. 1157.  
 Canned fruits. Liberty Brand Canning Company. No. 73,768; May 18; Gaz. vol. 142; p. 851.  
 Canned fruits. California Fruit Cannery Association. No. 73,853; May 25; Gaz. vol. 142; p. 1110.  
 Canned fruits. Code-Portwood Canning Co. No. 74,439; July 13; Gaz. vol. 144; p. 558.  
 Canned fruits. Code-Portwood Canning Co. No. 74,468; July 13; Gaz. vol. 144; p. 559.  
 Canned fruits. Central California Canneries. Nos. 75,928-30; Nov. 30; Gaz. vol. 148; p. 1339.  
 Canned fruits. Sunlit Fruit Company. Nos. 76,003-4; Dec. 7; Gaz. vol. 149; p. 305.  
 Canned fruits. Central California Canneries. Nos. 76,140-1; Dec. 21; Gaz. vol. 149; p. 829.  
 Canned fruits. Code-Portwood Canning Co. No. 76,175; Dec. 21; Gaz. vol. 149; p. 830.  
 Canned fruits. Sunlit Fruit Company. No. 76,201; Dec. 28; Gaz. vol. 149; p. 1115.  
 Canned fruits. R. B. Holmes. No. 76,210; Dec. 28; Gaz. vol. 149; p. 1115.  
 Canned fruits and vegetables. Stevens Brothers. No. 72,315; Jan. 19; Gaz. vol. 138; p. 763.  
 Canned fruits and vegetables. J. F. Pyle & Son. No. 72,656; Feb. 9; Gaz. vol. 139; p. 458.  
 Canned fruits and vegetables. Guymon Petro Mer. Co. No. 72,683; Feb. 9; Gaz. vol. 139; p. 459.  
 Canned fruits and vegetables. E. C. Reese. No. 72,751; Feb. 16; Gaz. vol. 139; p. 726.  
 Canned fruits and vegetables. Guymon Petro Mer. Co. No. 72,927; Mar. 2; Gaz. vol. 140; p. 251.  
 Canned fruits and vegetables. Lewiston-Clarkston Canning Co. No. 73,179; Mar. 23; Gaz. vol. 140; p. 998.  
 Canned fruits and vegetables. California Fruit Cannery Association. No. 73,506; Apr. 27; Gaz. vol. 141; p. 1157.  
 Canned fruits and vegetables. Phillips & Crallé. No. 73,871; May 25; Gaz. vol. 142; p. 1110.  
 Canned fruits and vegetables. W. R. Roach & Co. No. 73,875; May 25; Gaz. vol. 142; p. 1110.  
 Canned fruits and vegetables. Code-Portwood Canning Co. No. 74,440; July 13; Gaz. vol. 144; p. 558.  
 Canned fruits and vegetables. Shields-Morley Groc. Co. No. 74,597; July 27; Gaz. vol. 144; p. 1085.  
 Canned fruits and vegetables. W. D. Cleveland & Sons. No. 74,606; July 27; Gaz. vol. 144; p. 1085.  
 Canned fruits and vegetables. Continental Fruit Packing Co. Nos. 74,607-8; July 27; Gaz. vol. 144; p. 1085.  
 Canned fruits and vegetables. Pratt-Low Preserving Company. No. 74,697; Aug. 3; Gaz. vol. 145; p. 251.  
 Canned fruits and vegetables. Okanogan Canning Co. No. 75,444; Oct. 5; Gaz. vol. 147; p. 231.  
 Canned fruits and vegetables. Sunlit Fruit Company. No. 75,883; Nov. 23; Gaz. vol. 148; p. 1082.  
 Canned fruits and vegetables. Central California Canneries. No. 75,931; Nov. 30; Gaz. vol. 148; p. 1339.  
 Canned fruits and vegetables. Golden Gate Packing Company. No. 76,206; Dec. 28; Gaz. vol. 149; p. 1115.  
 Canned fruits and vegetables and condiments. McClintock-Trunkay Co. No. 74,907; Aug. 17; Gaz. vol. 145; p. 760.  
 Canned fruits and vegetables and dried fruits. California Fruit Cannery Association. No. 73,508; Apr. 27; Gaz. vol. 141; p. 1157.  
 Canned fruits and vegetables and shrimps. Rockwood Bros. Co. No. 74,510; July 20; Gaz. vol. 144; p. 813.  
 Canned fruits and vegetables, fruit-puddings, and catsup. Farmers' Preserving Company. No. 74,803; Aug. 10; Gaz. vol. 145; p. 508.  
 Canned fruits and vegetables, olives, and certain named foods and relishes. Nave-McCord Mercantile Company. No. 74,953; Aug. 24; Gaz. vol. 145; p. 1017.  
 Canned fruits, berries, vegetables, &c. Sears & Nichols Company. No. 75,758; Nov. 9; Gaz. vol. 148; p. 566.  
 Canned fruits, berries, vegetables, and pork and beans. Sears & Nichols Company. No. 75,456; Oct. 5; Gaz. vol. 147; p. 232.  
 Canned fruits, berries, vegetables, and pork and beans. Sears & Nichols Company. No. 75,999; Dec. 7; Gaz. vol. 149; p. 305.  
 Canned fruits, vegetables, and oysters. Hale-Halsell Grocery Co. No. 73,518; Apr. 27; Gaz. vol. 141; p. 1158.  
 Canned fruits, vegetables, and pork and beans. Elliott Grocery Company. No. 73,513; Apr. 27; Gaz. vol. 141; p. 1157.  
 Canned fruits, vegetables, jellies, and jams. Code-Portwood Canning Co. No. 74,438; July 13; Gaz. vol. 144; p. 558.  
 Canned fruits, vegetables, salmon, and pork and beans. John Hoffmann & Sons Co. No. 76,197; Dec. 28; Gaz. vol. 149; p. 1115.  
 Canned oysters. G. W. Lowden. No. 74,594; July 27; Gaz. vol. 144; p. 1085.  
 Canned peas. Waukesha Canning Co. Nos. 72,123-4; Jan. 5; Gaz. vol. 138; p. 252.  
 Canned peas. Waukesha Canning Co. No. 75,493; Oct. 5; Gaz. vol. 147; p. 233.  
 Canned peas and corn. Waukesha Canning Co. No. 72,693; Feb. 9; Gaz. vol. 139; p. 459.  
 Canned peas, beans, and corn. Waukesha Canning Co. No. 72,694; Feb. 9; Gaz. vol. 139; p. 459.  
 Canned peas, corn, and tomatoes. Waukesha Canning Co. No. 72,695; Feb. 9; Gaz. vol. 139; p. 459.  
 Canned peas, corn, and tomatoes. Waukesha Canning Co. No. 73,121; Mar. 16; Gaz. vol. 140; p. 752.  
 Canned peas, corn, and tomatoes. Smith-Yingling Company. No. 75,138; Sept. 7; Gaz. vol. 146; p. 251.  
 Canned, pickled, and preserved meats. John Morrell & Company. No. 75,826; Nov. 16; Gaz. vol. 148; p. 829.  
 Canned prepared food composed of beef, corn, and Spanish spices. Spanish-American Food Co. No. 72,691; Feb. 9; Gaz. vol. 139; p. 459.  
 Canned salmon. Alaska Packers Association. No. 72,680; Feb. 9; Gaz. vol. 139; p. 459.  
 Canned salmon. Alaska Packers Association. No. 72,739; Feb. 16; Gaz. vol. 139; p. 726.  
 Canned salmon. Columbia River Packers Association. Nos. 72,894-9; Mar. 2; Gaz. vol. 140; p. 251.  
 Canned salmon. Alaska Packers Association. No. 72,917; Mar. 2; Gaz. vol. 140; p. 251.  
 Canned salmon. Columbia River Packers Association. No. 73,214; Mar. 30; Gaz. vol. 140; p. 1203.  
 Canned salmon. Columbia River Packers Association. No. 73,216; Mar. 30; Gaz. vol. 140; p. 1204.  
 Canned salmon. Thlinket Packing Co. No. 73,226; Mar. 30; Gaz. vol. 140; p. 1204.  
 Canned salmon. Theo. H. Davies & Co. No. 73,459; Apr. 20; Gaz. vol. 141; p. 862.  
 Canned salmon. Theo. H. Davies & Co. No. 73,461; Apr. 20; Gaz. vol. 141; p. 862.  
 Canned salmon. Columbia River Packers Association. No. 73,533; Apr. 27; Gaz. vol. 141; p. 1158.  
 Canned salmon. Northwestern Fisheries Company. No. 73,599; May 4; Gaz. vol. 142; p. 283.  
 Canned salmon. Alaska Packers Association. No. 73,850; May 25; Gaz. vol. 142; p. 1110.  
 Canned salmon. Columbia River Packers Association. No. 73,854; May 25; Gaz. vol. 142; p. 1110.  
 Canned salmon. Alaska Packers Association. No. 73,966; June 8; Gaz. vol. 143; p. 557.  
 Canned salmon. Union Fishermen's Co-op. Pack'g Co. No. 75,461; Oct. 5; Gaz. vol. 147; p. 232.  
 Canned salmon. Union Fishermen's Co-op. Pack'g Co. No. 75,886; Nov. 23; Gaz. vol. 148; p. 1082.  
 Canned salmon. Austin, Nichols & Co. No. 76,173; Dec. 21; Gaz. vol. 149; p. 830.  
 Canned salmon and catsup. Theo. H. Davies & Co. No. 73,460; Apr. 20; Gaz. vol. 141; p. 862.  
 Canned salmon and dried salt codfish. Austin, Nichols & Co. No. 75,836; Nov. 23; Gaz. vol. 148; p. 1081.  
 Canned salmon and oysters. A. Booth & Company. No. 72,778; Feb. 23; Gaz. vol. 139; p. 985.  
 Canned salmon and vegetables and blended coffee. Dean & Company. No. 74,762; Aug. 10; Gaz. vol. 145; p. 507.  
 Canned sardines. A/S Kopervik Hermetikfabrik. No. 73,849; May 25; Gaz. vol. 142; p. 1110.  
 Canned sauer-kraut. Clyde Produce Co. No. 72,579; Feb. 2; Gaz. vol. 139; p. 195.  
 Canned sauer-kraut. Clyde Produce Co. No. 72,483; Jan. 26; Gaz. vol. 138; p. 961.  
 Canned tomatoes. Shields-Morley Gro. Co. No. 72,093; Jan. 5; Gaz. vol. 138; p. 251.  
 Canned vegetables. C. E. Brown & Co. No. 72,744; Feb. 16; Gaz. vol. 139; p. 726.  
 Canned vegetables. Griffin & Skelley Company. Nos. 72,903-4; Mar. 2; Gaz. vol. 140; p. 251.  
 Canned vegetables. Stittville Canning Co. No. 72,914; Mar. 2; Gaz. vol. 140; p. 251.  
 Canned vegetables. E. C. Reese. No. 73,114; Mar. 16; Gaz. vol. 140; p. 752.  
 Canned vegetables. D. Kelly Company. No. 73,235; Apr. 6; Gaz. vol. 141; p. 281.  
 Canned vegetables. L. M. Brackett & Co. No. 73,434; Apr. 20; Gaz. vol. 141; p. 862.  
 Canned vegetables. California Fruit Cannery Association. No. 73,509; Apr. 27; Gaz. vol. 141; p. 1157.  
 Canned vegetables. Code-Portwood Canning Co. No. 74,962; Aug. 24; Gaz. vol. 145; p. 1017.  
 Canned vegetables. Manitowoc Pea Packing Company. Nos. 75,702-5; Nov. 2; Gaz. vol. 148; p. 276.  
 Canned vegetables. Manitowoc Pea Packing Company. No. 75,810; Nov. 16; Gaz. vol. 148; p. 828.  
 Canned vegetables. Sears & Nichols Company. No. 75,947; Nov. 30; Gaz. vol. 148; p. 1339.  
 Canned vegetables. Spring Valley Canning Company. No. 76,082; Dec. 14; Gaz. vol. 149; p. 597.  
 Canned vegetables and butter. John F. White Company. No. 73,995; June 8; Gaz. vol. 143; p. 558.  
 Canned vegetables and fruit. Waukesha Canning Company. No. 73,876; May 25; Gaz. vol. 142; p. 1110.



*Alphabetical list of trade-marks—Continued.*

- Canned vegetables and fruits. A. Reiter & Co. No. 72,234; Jan. 12; Gaz. vol. 138; p. 523.  
 Canned vegetables and fruits. Fogg & Hires Company. No. 73,041; Mar. 9; Gaz. vol. 140; p. 503.  
 Canned vegetables and tomato catsup. D. Kelly Company. No. 74,721; Aug. 3; Gaz. vol. 145; p. 252.  
 Canned vegetables, fruit, and fish. Miner, Read & Garretts. No. 74,144; June 22; Gaz. vol. 143; p. 1104.  
 Canned vegetables, fruits, berries, &c. Holbrook Grocery Co. No. 73,446; Apr. 20; Gaz. vol. 141; p. 862.  
 Canned vegetables, pork and beans, lye-hominy, &c. Gibson Canning Co. No. 73,915; June 1; Gaz. vol. 143; p. 253.  
 Candied popcorn. Rueckheim Bros. & Eckstein. No. 72,937; Mar. 2; Gaz. vol. 140; p. 252.  
 Candies. J. G. Smith. No. 72,591; Feb. 2; Gaz. vol. 139; p. 195.  
 Candies. H. Maillard. No. 73,999; June 8; Gaz. vol. 143; p. 558.  
 Candies. S. I. Bragg. No. 74,119; June 22; Gaz. vol. 143; p. 1103.  
 Candies. Rosseter & Wasserman. No. 74,151; June 22; Gaz. vol. 143; p. 1104.  
 Candies. H. S. Hinds. No. 74,283; June 29; Gaz. vol. 143; p. 1341.  
 Candies. Levine Bros. Nos. 75,089-90; Aug. 31; Gaz. vol. 145; p. 1246.  
 Candies. E. Greenfield's Son & Co. No. 75,433; Oct. 5; Gaz. vol. 147; p. 231.  
 Candies. Will & Baumer Company. No. 75,633; Oct. 26; Gaz. vol. 147; p. 1032.  
 Candies and chocolate. Camp Chocolate Co. No. 73,510; Apr. 27; Gaz. vol. 141; p. 1157.  
 Candies, Chocolate. Trowbridge Chocolate Chip Company. No. 72,094; Jan. 5; Gaz. vol. 138; p. 251.  
 Candies, Chocolate. Trowbridge Chocolate Chip Company. No. 72,507; Jan. 26; Gaz. vol. 138; p. 962.  
 Candies, Chocolate. Wallace & Co. No. 72,915; Mar. 2; Gaz. vol. 140; p. 251.  
 Candies, Chocolate. Dilling & Company. No. 73,105; Mar. 16; Gaz. vol. 140; p. 752.  
 Candy. Nunnally Co. No. 72,383; Jan. 19; Gaz. vol. 138; p. 765.  
 Candy. Rueckheim Bros. & Eckstein. No. 72,938; Mar. 2; Gaz. vol. 140; p. 252.  
 Candy. Bradas & Gheens. No. 73,104; Mar. 16; Gaz. vol. 140; p. 752.  
 Candy. Croft & Allen Company. No. 73,438; Apr. 20; Gaz. vol. 141; p. 862.  
 Candy. V. C. Fuller Co. No. 73,706; May 11; Gaz. vol. 142; p. 564.  
 Candy. J. D. Grant Co. No. 73,712; May 11; Gaz. vol. 142; p. 564.  
 Candy. Trowbridge Chocolate Chip Co. No. 73,737; May 11; Gaz. vol. 142; p. 565.  
 Candy. V. C. Fuller Co. No. 73,941; June 1; Gaz. vol. 143; p. 254.  
 Candy. Jacobs Candy Co. No. 73,994; June 8; Gaz. vol. 143; p. 558.  
 Candy. Huyler's. No. 74,772; Aug. 10; Gaz. vol. 145; p. 507.  
 Candy. Walker, Richards & Thayer. No. 74,786; Aug. 10; Gaz. vol. 145; p. 508.  
 Candy. Robt. F. Mackenzie Co. No. 75,096; Aug. 31; Gaz. vol. 145; p. 1247.  
 Candy. Trowbridge Chocolate Chip Co. No. 75,102; Aug. 31; Gaz. vol. 145; p. 1247.  
 Candy. Ortega Land Company. No. 75,815; Nov. 16; Gaz. vol. 148; p. 828.  
 Candy. National Candy Company. No. 76,212; Dec. 28; Gaz. vol. 149; p. 1115.  
 Candy, Chewing. Ward Bros. Co. No. 73,790; May 18; Gaz. vol. 142; p. 852.  
 Candy, Chocolate. J. W. Herbert. No. 72,091; Jan. 5; Gaz. vol. 138; p. 253.  
 Candy, Chocolate. Aldrich & Smith. No. 73,668; May 11; Gaz. vol. 142; p. 563.  
 Candy, Chocolate. Ambrosia Chocolate Company. No. 73,852; May 25; Gaz. vol. 142; p. 1110.  
 Candy, Chocolate. L. Schulman & Co. No. 74,003; June 8; Gaz. vol. 143; p. 558.  
 Candy, Chocolate. Stern & Saalberg Company. No. 75,218; Sept. 14; Gaz. vol. 146; p. 502.  
 Candy, Chocolate. Lipps-Murbach Company of Baltimore City. No. 76,151; Dec. 21; Gaz. vol. 149; p. 829.  
 Candy, Coconut. American Caramel Co. No. 73,394; Apr. 13; Gaz. vol. 141; p. 563.  
 Candy, Coconut. American Caramel Co. No. 73,505; Apr. 27; Gaz. vol. 141; p. 1157.  
 Candy, crystallized fruits, glacé fruits, and nuts. C. A. Wilkinson. No. 74,938; Aug. 17; Gaz. vol. 145; p. 761.  
 Candy lozenges. New England Confectionery Co. Nos. 72,494-5; Jan. 26; Gaz. vol. 138; p. 962.  
 Candy lozenges. New England Confectionery Co. No. 75,706; Nov. 2; Gaz. vol. 148; p. 276.  
 Candy tablets, Fruit-flavored. Crown Sweets Company. No. 73,993; June 8; Gaz. vol. 143; p. 557.  
 Candy, Taffy. Miller Elmer Mfg. Co. No. 73,867; May 25; Gaz. vol. 142; p. 1110.  
 Candies. Will & Baumer Company. No. 72,890; Mar. 2; Gaz. vol. 140; p. 249.  
 Canes, parasols, and umbrellas. Follmer, Clogg & Co. No. 72,275; Jan. 12; Gaz. vol. 138; p. 524.  
 Canvas for interlining garments. W. Alsberg & Co. No. 76,170; Dec. 21; Gaz. vol. 149; p. 830.  
 Capes, Ladies' and misses'. J. Rapoport. No. 75,409; Sept. 28; Gaz. vol. 146; p. 954.  
 Caps. Freeman Maxfield Co. No. 73,840; May 25; Gaz. vol. 142; p. 1109.  
 Car brake-beams. Simplex Railway Appliance Company. Nos. 73,731-2; May 11; Gaz. vol. 142; p. 565.  
 Car brake-beams. Simplex Railway Appliance Company. No. 73,734; May 11; Gaz. vol. 142; p. 565.  
 Car couplings, Railway-. American Steel Foundries. No. 73,250; Apr. 6; Gaz. vol. 141; p. 281.  
 Car-heating apparatus, Steam and hot-water. Consolidated Car Heating Co. No. 74,441; July 13; Gaz. vol. 144; p. 558.  
 Car trucks, Railway-. Pressed Steel Car Company. No. 72,933; Mar. 2; Gaz. vol. 140; p. 252.  
 Cars, &c., Direction-indicators for motor-. P. S. Douglas-Hamilton. No. 75,000; Aug. 24; Gaz. vol. 145; p. 1018.  
 Cars, Mining, contractors', dump, spreader, and ballast. Wm. J. Oliver Manufacturing Co. No. 73,169; Mar. 23; Gaz. vol. 140; p. 997.  
 Caramel extract. Cam Caramel Company. No. 73,435; Apr. 20; Gaz. vol. 141; p. 862.  
 Caramels. American Caramel Co. Nos. 73,266-72; Apr. 6; Gaz. vol. 141; p. 282.  
 Carbon from cylinders, Chemical preparation for removing. R. W. Willits. No. 72,210; Jan. 5; Gaz. vol. 138; p. 254.  
 Carbon from cylinders, piston-rings, valves, &c., of automobiles and marine engines. Preparation for removing. Prest-O-Lite Company. No. 72,203; Jan. 5; Gaz. vol. 138; p. 254.  
 Card, block, and picture games. Rice & Hutchins. No. 72,824; Feb. 23; Gaz. vol. 139; p. 986.  
 Card game. F. D. Windell. No. 73,168; Mar. 23; Gaz. vol. 140; p. 997.  
 Cards, Playing-. Standard Playing Card Co. Nos. 73,263-4; Apr. 6; Gaz. vol. 141; p. 282.  
 Cards, Playing-. Kalamazoo Playing Card Co. No. 75,123; Sept. 7; Gaz. vol. 146; p. 251.  
 Carpet-sweepers. Bissell Carpet Sweeper Co. No. 72,762; Feb. 16; Gaz. vol. 139; p. 726.  
 Carpet-sweepers. Bissell Carpet Sweeper Co. No. 73,421; Apr. 20; Gaz. vol. 141; p. 861.  
 Carriage and wagon parts, Certain. Ohio Valley Bending Co. No. 74,694; Aug. 3; Gaz. vol. 145; p. 251.  
 Carriage-cloths, Enameled and rubber-coated. F. R. Maddock. No. 75,278; Sept. 21; Gaz. vol. 146; p. 715.  
 Cartridges. Braun & Bloem. No. 73,251; Apr. 6; Gaz. vol. 141; p. 281.  
 Casters, Furniture-. Burns, Silver & Co. No. 74,433; July 13; Gaz. vol. 144; p. 558.  
 Castings and iron pipes. Glamorgan Pipe & Foundry Co. Nos. 73,083-4; Mar. 16; Gaz. vol. 140; p. 751.  
 Castings, Malleable. United States Malleable Iron Co. No. 75,755; Nov. 9; Gaz. vol. 148; p. 566.  
 Castings, Manganese-steel. American Brake Shoe and Foundry Company. No. 74,427; July 13; Gaz. vol. 144; p. 557.  
 Castings, Roller-mill. H. W. Aitken. No. 74,792; Aug. 10; Gaz. vol. 145; p. 508.  
 Catalogues, circulars, and pamphlets. National-Acme Mfg. Co. No. 73,868; May 25; Gaz. vol. 142; p. 1110.  
 Catamenial saks, bandages, &c. F. A. Frommann. No. 74,370; July 6; Gaz. vol. 144; p. 273.  
 Cathartics, Candy. J. E. Mesirrow. No. 75,609; Oct. 26; Gaz. vol. 147; p. 1031.  
 Caviar, anchovies or sardels, and shrimps. C. F. Stuhr & Co. No. 72,475; Jan. 26; Gaz. vol. 138; p. 961.  
 Ceilings, Lock-joint metal. F. O. Schoedinger. No. 74,240; June 29; Gaz. vol. 143; p. 1339.  
 Cement. A material to be added to dry. Toch Brothers. No. 74,577; July 20; Gaz. vol. 144; p. 815.  
 Cement, Adhesive. Robert Low's Son & Howard. No. 75,791; Nov. 16; Gaz. vol. 148; p. 828.  
 Cement, Building-. Lawrence Cement Company of Pennsylvania. Nos. 73,977-9; June 8; Gaz. vol. 143; p. 557.  
 Cement, Building-. Lawrence Cement Company of Pennsylvania. No. 74,139; June 22; Gaz. vol. 143; p. 1103.  
 Cement, Building-. Lawrence Cement Company of Pennsylvania. No. 74,234; June 29; Gaz. vol. 143; p. 1339.  
 Cement, Building-. Lawrence Cement Company of Pennsylvania. Nos. 75,188-9; Sept. 14; Gaz. vol. 146; p. 501.  
 Cement, Calcareous. H. B. Dresser. No. 75,840; Nov. 23; Gaz. vol. 148; p. 1081.  
 Cement, Composition roadway and paving. Filbert Paving & Construction Co. No. 75,185; Sept. 14; Gaz. vol. 146; p. 501.  
 Cement for finishing walls and ceilings. J. B. King & Co. No. 73,843; May 25; Gaz. vol. 142; p. 1109.  
 Cement for repairing rubber goods. M. E. Valentine. No. 72,177; Jan. 5; Gaz. vol. 138; p. 253.  
 Cement, Hydraulic. New Castle Portland Cement Co. No. 75,969; Nov. 30; Gaz. vol. 148; p. 1340.  
 Cement, Hydrocarbon. Continental Bitumen Co. No. 74,040; June 15; Gaz. vol. 143; p. 859.  
 Cement, mortar, &c., waterproof. Preparation for rendering. Wunner'sche Bitumen-Werke Gesellschaft mit beschränkter Haftung. No. 74,581; July 20; Gaz. vol. 144; p. 815.  
 Cement plaster. American Cement Plaster Co. No. 74,428; July 13; Gaz. vol. 144; p. 557.  
 Cement, Portland. Ironport Portland Cement Company. No. 72,370; Jan. 19; Gaz. vol. 138; p. 764.  
 Cement, Portland. Dixie Portland Cement Company. No. 73,325; Apr. 13; Gaz. vol. 141; p. 561.

*Alphabetical list of trade-marks—Continued.*

- Cement, Portland. Continental Portland Cement Company. No. 74,634; July 27; Gaz. vol. 144; p. 1086.  
 Cement, Waterproof and fire-heat-resisting. United Asbestos Company. No. 73,128; Mar. 16; Gaz. vol. 140; p. 753.  
 Cement waterproof. Product for rendering. Schoellkopf, Hartford & Hanna Company. No. 72,759; Feb. 16; Gaz. vol. 139; p. 726.  
 Cements used as a substitute for plaster. Best Bros. Keene's Cement Co. No. 73,158; Mar. 23; Gaz. vol. 140; p. 997.  
 Cereal foods, Certain. American Hominy Company. No. 74,600; July 27; Gaz. vol. 144; p. 1085.  
 Chafing-dishes. Launders, Frary & Clark. No. 74,507; July 20; Gaz. vol. 144; p. 813.  
 Chain, Metal. Cleveland Wire Goods Co. No. 74,900; Aug. 17; Gaz. vol. 145; p. 760.  
 Chain, Sheet-metal. Bridgeport Chain Company. No. 72,613; Feb. 9; Gaz. vol. 139; p. 457.  
 Chain, Wire. Bridgeport Chain Company. No. 73,186; Mar. 30; Gaz. vol. 140; p. 1203.  
 Chain, Wire. Bridgeport Chain Company. No. 73,232; Apr. 6; Gaz. vol. 141; p. 281.  
 Chains. Oneida Community. Nos. 75,128-9; Sept. 7; Gaz. vol. 146; p. 257.  
 Chains, valves, cocks, and chain and tube couplings. Daimler-Motoren-Gesellschaft. No. 75,681; Nov. 2; Gaz. vol. 148; p. 275.  
 Chair-seats, Fiber. S. C. Simon. No. 74,640; July 27; Gaz. vol. 144; p. 1086.  
 Chairs, Rocking-. Plymouth Chair Company. No. 74,237; June 29; Gaz. vol. 143; p. 1339.  
 Chalk. Sté. Anne des Blancs Minéraux. No. 76,159; Dec. 21; Gaz. vol. 149; p. 829.  
 Chamotte ware. Stettiner Chamotte-Fabrik Actien-Gesellschaft Vormals Didier. No. 73,485; Apr. 20; Gaz. vol. 141; p. 863.  
 Charms, Watch, pocket, and jewelry. H. D. Umbstaetter. No. 75,460; Oct. 5; Gaz. vol. 147; p. 232.  
 Cheese. Warfield Pratt Howell Co. No. 73,606; May 4; Gaz. vol. 142; p. 284.  
 Cheese. Koehler & Ilmrichs. No. 74,264; June 29; Gaz. vol. 143; p. 1340.  
 Cheese, Cream-. Demcey & Sibley Company. No. 72,900; Mar. 2; Gaz. vol. 140; p. 251.  
 Cheese, Cream-. Demcey & Sibley Company. No. 72,922; Mar. 2; Gaz. vol. 140; p. 251.  
 Cheese, Cream-. Ryan & Newton Co. No. 73,873; May 25; Gaz. vol. 142; p. 1110.  
 Cheese, Cream-. Ryan & Newton Co. No. 73,959; June 1; Gaz. vol. 143; p. 255.  
 Cheese, Cream-. Cuddy Cheese Co. No. 74,124; June 22; Gaz. vol. 143; p. 1103.  
 Cheese, Cream-. Monroe Cheese Company. No. 75,371; Nov. 23; Gaz. vol. 148; p. 1082.  
 Cheese, Dairy-. Geo. W. Marshall Co. No. 72,309; Jan. 19; Gaz. vol. 138; p. 763.  
 Cheese, Full-cream. F. Grunert. No. 73,943; June 1; Gaz. vol. 143; p. 254.  
 Cheese, Imported Camembert. Phenix Cheese Co. No. 72,669; Feb. 9; Gaz. vol. 139; p. 459.  
 Cheese-paste. F. Hugh. No. 75,206; Sept. 14; Gaz. vol. 146; p. 501.  
 Chemical and pharmaceutical preparations, Certain. Heyden Chemical Works. No. 72,247; Jan. 12; Gaz. vol. 138; p. 524.  
 Chemical compound, Certain. F. H. Blackmar. No. 75,299; Sept. 21; Gaz. vol. 146; p. 715.  
 Chemical preparation for producing effervescing baths. L. Sarason. No. 72,908; Mar. 9; Gaz. vol. 140; p. 501.  
 Chemical preparations, Certain. C. D. Smith Drug Co. No. 74,404; July 13; Gaz. vol. 144; p. 557.  
 Chemical preparations, Certain. Oakford and Fahnestock. No. 74,569; July 20; Gaz. vol. 144; p. 815.  
 Chemical solutions and compounds and preparations, Certain. Anasco Company. No. 72,477; Jan. 26; Gaz. vol. 138; p. 961.  
 Chemicals and medicines, Certain. Drs. Hoag and Turbin Remedy Company. No. 72,817; Feb. 23; Gaz. vol. 139; p. 986.  
 Chemicals and medicines, Certain. Stone-Ordean-Wells Company. Nos. 73,684-6; May 11; Gaz. vol. 142; p. 563.  
 Chemicals and photographic preparations, Certain. Anasco Company. No. 72,512; Feb. 2; Gaz. vol. 139; p. 193.  
 Chemicals, Certain. Western Grocer Company. No. 72,476; Jan. 26; Gaz. vol. 138; p. 961.  
 Chemicals, Certain. Eastman Kodak Co. No. 73,062; Mar. 16; Gaz. vol. 140; p. 751.  
 Chemicals, Certain. Western Grocer Company. No. 73,353; Apr. 13; Gaz. vol. 141; p. 562.  
 Chemicals, Certain. M. Loewenstein. No. 74,285; June 29; Gaz. vol. 143; p. 1341.  
 Chemicals, Certain. Badische Anilin & Soda Fabrik. No. 76,056; Dec. 7; Gaz. vol. 149; p. 307.  
 Chemicals, Certain. Fuerst Bros. & Co. No. 76,178; Dec. 21; Gaz. vol. 149; p. 830.  
 Chemicals for reducing, discharging, and bleaching. Badische Anilin & Soda-Fabrik. No. 76,245; Dec. 28; Gaz. vol. 149; p. 1116.  
 Chestnuts. C. K. Sober. No. 72,499; Jan. 26; Gaz. vol. 138; p. 962.  
 Cheviots, chambray, khaki, &c. Pilot Cotton Mills Company. No. 75,337; Sept. 21; Gaz. vol. 146; p. 717.  
 Chiffon. Wertheimer Bros. No. 73,812; May 18; Gaz. vol. 142; p. 853.  
 China, French. Charles Ahrenfeldt & Son. No. 73,422; Apr. 20; Gaz. vol. 141; p. 861.  
 Chlorodyne. J. T. Davenport, Limited. No. 76,121; Dec. 14; Gaz. vol. 149; p. 598.  
 Chocolate. H. O. Wilbur & Sons. No. 72,813; Feb. 23; Gaz. vol. 139; p. 986.  
 Chocolate and candy. Ideal Cocoa & Chocolate Co. No. 74,252; June 29; Gaz. vol. 143; p. 1340.  
 Chocolate and cocoa. Pennsylvania Chocolate Company. No. 73,379; Apr. 13; Gaz. vol. 141; p. 563.  
 Chocolate candies. Rockwood & Company. No. 73,241; Apr. 6; Gaz. vol. 141; p. 281.  
 Chocolate-coated nuts and chocolate candies. Wysong Candy Company. No. 75,240; Sept. 14; Gaz. vol. 146; p. 502.  
 Chocolate, Nut-. Huyler's. No. 72,118; Jan. 5; Gaz. vol. 138; p. 252.  
 Chocolate, Sweet. Runkel Brothers. Nos. 73,785-6; May 18; Gaz. vol. 142; p. 852.  
 Chocolate, Swiss milk-. Nestlé and Anglo Swiss Condensed Milk Co. No. 74,832; Aug. 10; Gaz. vol. 145; p. 509.  
 Chocolates. Fuller-Greene Company. No. 72,089; Jan. 5; Gaz. vol. 138; p. 251.  
 Chocolates. F. A. Martin. No. 72,119; Jan. 5; Gaz. vol. 138; p. 252.  
 Chocolates. Taylor Brothers Company. No. 73,127; Mar. 16; Gaz. vol. 140; p. 753.  
 Chocolates. Hess Brothers. No. 73,237; Apr. 6; Gaz. vol. 141; p. 281.  
 Chocolates. Hess Brothers. No. 73,294; Apr. 6; Gaz. vol. 141; p. 283.  
 Chocolates. L. Schulman & Co. No. 73,730; May 11; Gaz. vol. 142; p. 565.  
 Chocolates. Golding & Bogart. No. 74,312; July 6; Gaz. vol. 144; p. 271.  
 Chocolates. Bishop and Company. No. 74,681; Aug. 3; Gaz. vol. 145; p. 251.  
 Chocolates. J. Massarella. No. 75,441; Oct. 5; Gaz. vol. 147; p. 231.  
 Chocolates. Paul F. Beich Co. No. 75,514; Oct. 12; Gaz. vol. 147; p. 513.  
 Chocolates. Snyder-Chaffee Company. No. 75,710; Nov. 2; Gaz. vol. 148; p. 276.  
 Chocolates and all kinds of candies. S. D. Gilman. No. 74,451; July 13; Gaz. vol. 144; p. 558.  
 Chocolates and bonbons. H. Heide. No. 72,962; Mar. 9; Gaz. vol. 140; p. 501.  
 Chocolates and bonbons. Boex-Holman Co. No. 75,153; Sept. 7; Gaz. vol. 146; p. 252.  
 Chocolates and bonbons. F. H. Roberts Company. No. 75,741; Nov. 9; Gaz. vol. 148; p. 566.  
 Chocolates, bonbons, and ice-cream. Original Sun Confectionery Co. No. 72,908; Mar. 2; Gaz. vol. 140; p. 251.  
 Chocolates or chocolate candies. Adams Argood Chocolate Co. No. 73,393; Apr. 13; Gaz. vol. 141; p. 563.  
 Churns. Pound-A-Minute Churn Company. No. 72,438; Jan. 26; Gaz. vol. 138; p. 960.  
 Cider. John C. Morgan Company. No. 73,367; Apr. 13; Gaz. vol. 141; p. 562.  
 Cider, root and birch beer, sarsaparilla, &c. Franklin MacVeagh & Co. No. 76,112; Dec. 14; Gaz. vol. 149; p. 598.  
 Cigar-molds. Miller, Dubrul & Peters Mfg. Co. Nos. 75,868-9; Nov. 23; Gaz. vol. 148; p. 1082.  
 Cigarette-papers. Maison Pierre Bardou-Job. No. 73,124; Mar. 16; Gaz. vol. 140; p. 753.  
 Cigarettes. Philip Morris & Co. No. 73,954; June 1; Gaz. vol. 143; p. 255.  
 Cigarettes. J. de Susini. No. 74,189; June 22; Gaz. vol. 143; p. 1105.  
 Cigarettes and smoking-tobacco. Dwight, Upton & Weil. No. 74,341; July 6; Gaz. vol. 144; p. 272.  
 Cigarettes, cigars, smoking and chewing tobacco. Maspero Freres. No. 72,427; Jan. 26; Gaz. vol. 138; p. 960.  
 Cigarettes, Egyptian. D. D. H. Minassian. No. 73,885; May 25; Gaz. vol. 142; p. 1111.  
 Cigarettes made of Turkish tobacco, Egyptian. J. E. De Kay & R. Gilder. No. 73,881; May 25; Gaz. vol. 142; p. 1111.  
 Cigarettes, smoking-tobacco, and cigars. W. Sandorides & Co. No. 75,491; Oct. 5; Gaz. vol. 147; p. 233.  
 Cigarettes, Turkish. Zeitlin & Weinstein. No. 73,657; May 4; Gaz. vol. 142; p. 285.  
 Cigars. A. Kleffmann. No. 72,196; Jan. 5; Gaz. vol. 138; p. 254.  
 Cigars. Magidson Bros. No. 72,201; Jan. 5; Gaz. vol. 138; p. 254.  
 Cigars. F. G. Schneider. Nos. 72,204-5; Jan. 5; Gaz. vol. 138; p. 254.  
 Cigars. E. M. Schwarz & Co. No. 72,206; Jan. 5; Gaz. vol. 138; p. 254.  
 Cigars. H. Fendrich. Nos. 72,270-4; Jan. 12; Gaz. vol. 138; p. 524.  
 Cigars. A. S. Valentine & Son. Nos. 72,346-7; Jan. 19; Gaz. vol. 138; p. 764.  
 Cigars. Smokers Paradise Corp. No. 72,410; Jan. 26; Gaz. vol. 138; p. 959.  
 Cigars. L. F. Aumann. No. 72,415; Jan. 26; Gaz. vol. 138; p. 959.  
 Cigars. H. Fendrich. No. 72,615; Feb. 9; Gaz. vol. 139; p. 457.  
 Cigars. G. P. Madden. No. 72,618; Feb. 9; Gaz. vol. 139; p. 457.  
 Cigars. L. M. Crump. No. 72,698; Feb. 9; Gaz. vol. 139; p. 459.  
 Cigars. Garcia & Vega. No. 72,818; Feb. 23; Gaz. vol. 139; p. 986.  
 Cigars. Patterson & Hoffman. No. 72,820; Feb. 23; Gaz. vol. 139; p. 986.



*Alphabetical list of trade-marks—Continued.*

- Cigars. F. Garcia & Bros. No. 72,925; Mar. 2; Gaz. vol. 140; p. 251.  
 Cigars. R. & W. Jenkinson Company. No. 72,935; Mar. 2; Gaz. vol. 140; p. 252.  
 Cigars. M. Blaskower. No. 72,956; Mar. 2; Gaz. vol. 140; p. 252.  
 Cigars. C. Pearson. No. 72,988; Mar. 9; Gaz. vol. 140; p. 502.  
 Cigars. Rotan Grocery Company. No. 72,990; Mar. 9; Gaz. vol. 140; p. 502.  
 Cigars. Rotan Grocery Company. No. 73,051; Mar. 9; Gaz. vol. 140; p. 503.  
 Cigars. Chas. P. Stanley Cigar Co. No. 73,133; Mar. 16; Gaz. vol. 140; p. 753.  
 Cigars. H. Fendrich. No. 73,136; Mar. 16; Gaz. vol. 140; p. 753.  
 Cigars. A. Z. Osgood. No. 73,166; Mar. 23; Gaz. vol. 140; p. 997.  
 Cigars. Chas P Stanley Cigar Co. No. 73,234; Apr. 6; Gaz. vol. 141; p. 281.  
 Cigars. Garcia & Vega. No. 73,291; Apr. 6; Gaz. vol. 141; p. 282.  
 Cigars. C. Singley. No. 73,400; Apr. 13; Gaz. vol. 141; p. 563.  
 Cigars. Chas P Stanley Cigar Co. No. 73,423; Apr. 20; Gaz. vol. 141; p. 861.  
 Cigars. Theo. H. Davies & Co. No. 73,425; Apr. 20; Gaz. vol. 141; p. 861.  
 Cigars. E. Treuhaft Cigar Co. No. 73,639; May 4; Gaz. vol. 142; p. 285.  
 Cigars. Garcia & Vega. Nos. 73,707-10; May 11; Gaz. vol. 142; p. 564.  
 Cigars. F. Bebbler. No. 73,773; May 18; Gaz. vol. 142; p. 852.  
 Cigars. A. Breitung. No. 73,878; May 25; Gaz. vol. 142; p. 1110.  
 Cigars. Park & Tilford. No. 73,886; May 25; Gaz. vol. 142; p. 1111.  
 Cigars. C. G. Van Gorden. No. 73,963; June 1; Gaz. vol. 143; p. 255.  
 Cigars. P. Cannizzaro & Co. No. 74,011; June 8; Gaz. vol. 143; p. 558.  
 Cigars. Hautzenroeder Co. No. 74,013; June 8; Gaz. vol. 143; p. 558.  
 Cigars. L. Newburger & Bro. No. 74,022; June 8; Gaz. vol. 143; p. 558.  
 Cigars. P. San Martin & Co. No. 74,184; June 22; Gaz. vol. 143; p. 1105.  
 Cigars. Banner Cigar Manufacturing Co. No. 74,359; July 6; Gaz. vol. 144; p. 272.  
 Cigars. Solares & Company. No. 74,392; July 6; Gaz. vol. 144; p. 273.  
 Cigars. O. Lucks. No. 74,471; July 13; Gaz. vol. 144; p. 559.  
 Cigars. G. F. Heublein & Bro. No. 74,549; July 20; Gaz. vol. 144; p. 814.  
 Cigars. L. Newburger & Bro. No. 74,568; July 20; Gaz. vol. 144; p. 815.  
 Cigars. Theobald & Oppenheimer Co. No. 74,576; July 20; Gaz. vol. 144; p. 815.  
 Cigars. Charles P. Stanley Cigar Co. No. 74,643; July 27; Gaz. vol. 144; p. 1086.  
 Cigars. H. Fendrich. No. 74,726; Aug. 3; Gaz. vol. 145; p. 252.  
 Cigars. H. Fendrich. Nos. 74,804-5; Aug. 10; Gaz. vol. 145; p. 508.  
 Cigars. Garcia & Vega. No. 74,808; Aug. 10; Gaz. vol. 145; p. 508.  
 Cigars. G. C. Knispel. Nos. 74,822-3; Aug. 10; Gaz. vol. 145; p. 509.  
 Cigars. Independence Cigar Mfg. Co. No. 74,859; Aug. 17; Gaz. vol. 145; p. 759.  
 Cigars. H. Fendrich. No. 74,925; Aug. 17; Gaz. vol. 145; p. 761.  
 Cigars. H. Fendrich. No. 74,983; Aug. 24; Gaz. vol. 145; p. 1018.  
 Cigars. R. & W. Jenkinson Company. No. 74,991; Aug. 24; Gaz. vol. 145; p. 1018.  
 Cigars. M. L. Fernandez. No. 75,157; Sept. 7; Gaz. vol. 146; p. 252.  
 Cigars. H. Traiser & Company. No. 75,267; Sept. 14; Gaz. vol. 146; p. 503.  
 Cigars. Berriman Bros. No. 75,295; Sept. 21; Gaz. vol. 146; p. 715.  
 Cigars. E. Hoffman Company. No. 75,304; Sept. 21; Gaz. vol. 146; p. 716.  
 Cigars. Elliot, Ottenheimer & Elliot. No. 75,305; Sept. 21; Gaz. vol. 146; p. 716.  
 Cigars. R. G. Sullivan. No. 75,384; Sept. 28; Gaz. vol. 146; p. 954.  
 Cigars. H. Traiser & Co. No. 75,386; Sept. 28; Gaz. vol. 146; p. 954.  
 Cigars. H. B. Franklin. No. 75,535; Oct. 12; Gaz. vol. 147; p. 514.  
 Cigars. Wm. A. Stickney Cigar Co. No. 75,591; Oct. 19; Gaz. vol. 147; p. 768.  
 Cigars. J. A. Zink. No. 75,593; Oct. 19; Gaz. vol. 147; p. 768.  
 Cigars. W. L. Bucher Cigar Co. No. 75,651; Oct. 26; Gaz. vol. 147; p. 1032.  
 Cigars. A. Breitung. No. 75,689; Nov. 2; Gaz. vol. 148; p. 276.  
 Cigars. M. A. Gunst & Co. No. 75,700; Nov. 2; Gaz. vol. 148; p. 276.  
 Cigars. Garcia & Vega. No. 75,744; Nov. 9; Gaz. vol. 148; p. 566.  
 Cigars. M. L. Epstein. No. 75,824; Nov. 16; Gaz. vol. 148; p. 829.  
 Cigars. A. Breitung. No. 75,956; Nov. 30; Gaz. vol. 148; p. 1340.  
 Cigars. Dannemann & Ca. No. 75,979; Nov. 30; Gaz. vol. 148; p. 1340.  
 Cigars. Garcia & Vega. No. 76,023; Dec. 7; Gaz. vol. 149; p. 306.  
 Cigars. Gonzales and Sanchez Co. No. 76,024; Dec. 7; Gaz. vol. 149; p. 306.  
 Cigars. H. Traiser & Co. No. 76,058; Dec. 7; Gaz. vol. 149; p. 307.  
 Cigars. Chas. P. Stanley Cigar Co. No. 76,265; Dec. 28; Gaz. vol. 149; p. 1117.  
 Cigars and cigarettes. Smokers Paradise Corp. No. 72,407; Jan. 26; Gaz. vol. 138; p. 959.  
 Cigars and cigarettes. J. Tinchant y Gonzales & Cie. No. 72,948; Mar. 2; Gaz. vol. 140; p. 252.  
 Cigars and cigarettes. Samuel Saqui Co. No. 73,429; Apr. 20; Gaz. vol. 141; p. 861.  
 Cigars and little cigars. John W. Merriam & Co. No. 75,373; Sept. 28; Gaz. vol. 146; p. 953.  
 Cigars and scrap-tobacco. C. C. Rodenbeck. No. 72,623; Feb. 9; Gaz. vol. 139; p. 457.  
 Cigars and smoking-tobacco. Cobb, Bates & Yerxa Co. No. 73,700; May 11; Gaz. vol. 142; p. 564.  
 Cigars and stogies. R. & W. Jenkinson Company. No. 72,934; Mar. 2; Gaz. vol. 140; p. 252.  
 Cigars, cigarettes, and cheroots. A. Blinder. No. 74,196; June 22; Gaz. vol. 143; p. 1105.  
 Cigars, cigarettes, and cheroots. C. Millhiser. No. 75,209; Sept. 14; Gaz. vol. 146; p. 501.  
 Cigars, cigarettes, and smoking-tobacco. Calixto, Lopez & Co. No. 72,418; Jan. 26; Gaz. vol. 138; p. 959.  
 Cigars, cigarettes, and smoking-tobacco. Calixto Lopez & Co. No. 74,061; June 15; Gaz. vol. 143; p. 859.  
 Cigars, cigarettes, and smoking-tobacco. Park & Tilford. No. 74,661; July 27; Gaz. vol. 144; p. 1087.  
 Cigars, cigarettes, and tobacco. Calixto Lopez & Co. No. 72,614; Feb. 9; Gaz. vol. 139; p. 457.  
 Cigars, cigarettes, and tobacco. Calixto Lopez & Co. Nos. 72,919-21; Mar. 2; Gaz. vol. 140; p. 251.  
 Cigars, cigarettes, and tobacco. E. Regensburg & Sons. Nos. 72,983-4; Mar. 9; Gaz. vol. 140; p. 501.  
 Cigars, cigarettes, and tobacco. John Rothschild & Co. No. 75,207; Sept. 14; Gaz. vol. 146; p. 501.  
 Clamping-patches, Metallic. Collette Mfg. Co. No. 74,198; June 22; Gaz. vol. 143; p. 1105.  
 Cleaner, Clothes-. J. A. Byrnes. No. 74,851; Aug. 17; Gaz. vol. 145; p. 759.  
 Cleaners, Vacuum-. J. W. Duntley. No. 73,559; Apr. 27; Gaz. vol. 141; p. 1159.  
 Cleaning and polishing compound. E. B. Brannen. No. 75,525; Oct. 12; Gaz. vol. 147; p. 514.  
 Cleaning and polishing compounds. H. Stern. No. 73,736; May 11; Gaz. vol. 142; p. 565.  
 Cleaning and polishing powder. E. L. Waggoner. No. 72,736; Feb. 16; Gaz. vol. 139; p. 726.  
 Cleaning apparatus, Vacuum. W. R. Green. No. 72,766; Feb. 16; Gaz. vol. 139; p. 727.  
 Cleaning apparatus, Vacuum. L. W. Serrell. No. 75,236; Sept. 14; Gaz. vol. 146; p. 502.  
 Cleaning apparatus, Vacuum. L. W. Serrell. No. 75,817; Nov. 16; Gaz. vol. 148; p. 828.  
 Cleaning compound. Sherwin-Williams Co. No. 73,071; Mar. 16; Gaz. vol. 140; p. 751.  
 Cleaning compound. Commercial Paste Company. No. 73,570; May 4; Gaz. vol. 142; p. 283.  
 Cleaning compound, Cloth-. Gribben & Keyser. No. 75,536; Oct. 12; Gaz. vol. 147; p. 514.  
 Cleaning, polishing, and preserving liquid compound. G. Hoagland. No. 74,943; Aug. 24; Gaz. vol. 145; p. 1017.  
 Cleaning-powder for brushes. S. E. Howard's Son & Co. No. 75,455; Oct. 5; Gaz. vol. 147; p. 232.  
 Cleaning preparation, Detergent. P. A. Anderson. No. 74,060; June 15; Gaz. vol. 143; p. 859.  
 Cleansing deodorizing antiseptic toilet wash for external application. Odorless Chemical Co. No. 74,417; July 13; Gaz. vol. 144; p. 557.  
 Cleansing preparation. C. J. Enebuske. No. 73,659; May 4; Gaz. vol. 142; p. 285.  
 Clippers, Horse-. Norvell-Shapleigh Hardware Company. No. 76,213; Dec. 28; Gaz. vol. 149; p. 1115.  
 Cloaks, dresses, and coats. H. Goldwater. No. 74,373; July 6; Gaz. vol. 144; p. 273.  
 Cloaks, dresses, and coats. H. Goldwater. No. 74,519; July 20; Gaz. vol. 144; p. 813.  
 Cloaks, outer suits, and dresses. M. J. Cohn. No. 75,800; Nov. 16; Gaz. vol. 148; p. 828.  
 Clocks. G. Kuehl & Company. No. 73,717; May 11; Gaz. vol. 142; p. 564.  
 Clocks. American Cuckoo Clock Company. No. 75,111; Sept. 7; Gaz. vol. 146; p. 251.  
 Clocks. Bawo and Dotter. No. 75,352; Sept. 28; Gaz. vol. 146; p. 953.  
 Clocks, Alarm-. Darche M'Pg Co. No. 74,406; July 13; Gaz. vol. 144; p. 557.  
 Clocks and watches. Western Clock Mfg. Co. No. 72,178; Jan. 5; Gaz. vol. 138; p. 253.

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- Clocks and watches. Western Clock Mfg. Co. No. 72,774; Feb. 16; Gaz. vol. 139; p. 727.  
 Clocks and watches. Western Clock Mfg. Co. No. 74,712; Aug. 3; Gaz. vol. 145; p. 252.  
 Clocks, Certain. G. Kuehl & Company. Nos. 73,190-1; Mar. 30; Gaz. vol. 140; p. 1203.  
 Clocks, Electric. Kutnow Bros. No. 72,687; Feb. 9; Gaz. vol. 139; p. 459.  
 Closet tanks and seats. Climax Sanitary Company. No. 73,436; Apr. 20; Gaz. vol. 141; p. 862.  
 Closet tanks, seats, and seat-covers. American Sanitary Works. No. 75,550; Oct. 19; Gaz. vol. 147; p. 767.  
 Cloth, rubber, and leather shoes. National Shoemakers. No. 72,159; Jan. 5; Gaz. vol. 138; p. 253.  
 Cloths and worsteds for garments. Schwarzwaelder Company. No. 72,292; Jan. 12; Gaz. vol. 138; p. 525.  
 Clothes-pressing machines, Steam. United States Hoffman Company. No. 72,889; Mar. 2; Gaz. vol. 140; p. 249.  
 Clothes-sprinklers, Metal-and-cork. H. P. Wilson Company. No. 73,679; May 11; Gaz. vol. 142; p. 563.  
 Clothing, Certain. Hibben, Hollweg & Company. No. 72,279; Jan. 12; Gaz. vol. 138; p. 525.  
 Clothing, Certain. L. Sivins. No. 72,293; Jan. 12; Gaz. vol. 138; p. 525.  
 Clothing, Certain. Tootle Campbell Dry Goods Co. No. 72,296; Jan. 12; Gaz. vol. 138; p. 525.  
 Clothing, Certain. Merrimac Manufacturing Co. No. 72,300; Jan. 12; Gaz. vol. 138; p. 525.  
 Clothing, Certain. Coon Brothers. No. 72,421; Jan. 26; Gaz. vol. 138; p. 959.  
 Clothing, Certain. Oppenheim, Obendorf & Co. No. 72,435; Jan. 26; Gaz. vol. 138; p. 960.  
 Clothing, Certain. Tootle Campbell Dry Goods Co. No. 72,640; Feb. 9; Gaz. vol. 139; p. 458.  
 Clothing, Certain. John S. Naylor Company. No. 72,715; Feb. 16; Gaz. vol. 139; p. 725.  
 Clothing, Certain. Tauber, Ryttenberg & Co. Nos. 72,733-4; Feb. 16; Gaz. vol. 139; p. 726.  
 Clothing, Certain. J. M. Kinney. No. 73,011; Mar. 9; Gaz. vol. 140; p. 502.  
 Clothing, Certain. F. Mayer. No. 73,125; Mar. 16; Gaz. vol. 140; p. 753.  
 Clothing, Certain. Tootle, Wheeler & Motter Mercantile Company. No. 73,287; Apr. 6; Gaz. vol. 141; p. 282.  
 Clothing, Certain. Ohio Knitting Mills Company. No. 73,477; Apr. 20; Gaz. vol. 141; p. 863.  
 Clothing, Certain. J. G. Miller & Co. No. 73,492; Apr. 27; Gaz. vol. 141; p. 1157.  
 Clothing, Certain. Mandelert Mercantile Co. No. 73,596; May 4; Gaz. vol. 142; p. 283.  
 Clothing, Certain. Snow, Mecaslin & Co. No. 73,603; May 4; Gaz. vol. 142; p. 284.  
 Clothing, Certain. King Waist Company. No. 73,643; May 4; Gaz. vol. 142; p. 285.  
 Clothing, Certain. M. S. Ely. No. 73,743; May 18; Gaz. vol. 142; p. 851.  
 Clothing, Certain. Adler & Ast. No. 74,057; June 15; Gaz. vol. 143; p. 859.  
 Clothing, Certain. J. Williams. No. 74,216; June 22; Gaz. vol. 143; p. 1106.  
 Clothing, Certain. Boys' Overall Mfg. Co. No. 74,261; June 29; Gaz. vol. 143; p. 1340.  
 Clothing, Certain. S. H. Reizenstein. No. 74,390; July 6; Gaz. vol. 144; p. 273.  
 Clothing, Certain. Wm. H. McKnew Co. No. 74,400; July 6; Gaz. vol. 144; p. 273.  
 Clothing, Certain. William Hollins and Company. No. 74,515; July 20; Gaz. vol. 144; p. 813.  
 Clothing, Certain. Joseph Horne Company. No. 74,521; July 20; Gaz. vol. 144; p. 813.  
 Clothing, Certain. J. R. Keiser. Nos. 74,613-14; July 27; Gaz. vol. 144; p. 1086.  
 Clothing, Certain. Kormmann, Cohen & Ettlinger. No. 74,824; Aug. 10; Gaz. vol. 145; p. 509.  
 Clothing, Certain. W. Bengel Söhne. Nos. 75,243-5; Sept. 14; Gaz. vol. 146; pp. 502-3.  
 Clothing, Certain. Rouse, Hempstone & Co. No. 75,286; Sept. 21; Gaz. vol. 146; p. 715.  
 Clothing, Certain. Dallet and Weyl. No. 75,933; Nov. 30; Gaz. vol. 148; p. 1339.  
 Clothing, Certain. Weber and Heilbronner. No. 75,950; Nov. 30; Gaz. vol. 148; p. 1340.  
 Clothing, Certain. W. Danenbaum. No. 76,068; Dec. 14; Gaz. vol. 149; p. 597.  
 Clothing, Certain. Kohn & Baer. No. 76,077; Dec. 14; Gaz. vol. 149; p. 597.  
 Clothing, Certain. Standard Knitting Company. No. 76,083; Dec. 14; Gaz. vol. 149; p. 597.  
 Clothing, Certain named. National Cloak and Suit Company. No. 74,908; Aug. 17; Gaz. vol. 145; p. 760.  
 Clothing, Certain named. Wm. I. Keetch Knitting Company. No. 74,916; Aug. 17; Gaz. vol. 145; p. 761.  
 Clothing, Certain named. Bauer Bros. & Co. No. 74,996; Aug. 24; Gaz. vol. 145; p. 1018.  
 Clothing, Certain named. D. Osterweis & Co. No. 75,008; Aug. 24; Gaz. vol. 145; p. 1019.  
 Clothing, Oiled. Milbury Atlantic Supply Co. No. 73,926; June 1; Gaz. vol. 143; p. 254.  
 Clothing, Oiled. Milbury Atlantic Supply Co. No. 73,952; June 1; Gaz. vol. 143; p. 255.  
 Clothing, Oiled. Milbury Atlantic Supply Co. No. 74,930; Aug. 17; Gaz. vol. 145; p. 761.  
 Clothing, Oiled. Ferguson Waterproof Co. No. 75,365; Sept. 28; Gaz. vol. 146; p. 953.  
 Clothing, Padding-cloth for. Joseph Benn & Sons. No. 74,045; June 15; Gaz. vol. 143; p. 859.  
 Coal. T. C. Keller & Co. No. 72,528; Feb. 2; Gaz. vol. 139; p. 193.  
 Coal. C. M. Moderwell & Company. No. 73,274; Apr. 6; Gaz. vol. 141; p. 282.  
 Coal. A. F. Cook & Company. No. 74,035; June 15; Gaz. vol. 143; p. 859.  
 Coal. Roden Coal Company. No. 75,908; Nov. 23; Gaz. vol. 148; p. 1083.  
 Coal and coke. Black Band Coal and Coke Company. No. 74,430; July 13; Gaz. vol. 144; p. 557.  
 Coal, Bituminous. O. W. Gotto. No. 73,085; Mar. 16; Gaz. vol. 140; p. 751.  
 Coal, Soft. W. G. Morton. No. 75,211; Sept. 14; Gaz. vol. 146; p. 502.  
 Coating for preserving cement, wood, and metal. Marvin Cement Preservative Company. No. 73,951; June 1; Gaz. vol. 143; p. 254.  
 Coats. Leon Mann Company. No. 74,774; Aug. 10; Gaz. vol. 145; p. 507.  
 Coats and outer suits, Ladies', misses', and children's. Gotthoffer and Damm. No. 74,687; Aug. 3; Gaz. vol. 145; p. 251.  
 Coats and overcoats. S. Rosenthal. No. 75,454; Oct. 5; Gaz. vol. 147; p. 232.  
 Coats, cloaks, suits, and outer skirts. Women's. New York Mackintosh Company. No. 73,746; May 18; Gaz. vol. 142; p. 851.  
 Coats, leggings, overgaiters, and sandals. Stockinet and jersey. I. Goldberg. No. 73,329; Apr. 13; Gaz. vol. 141; p. 561.  
 Coats, overcoats, trousers, pants, and vests. Merrimac Manufacturing Co. No. 72,155; Jan. 5; Gaz. vol. 138; p. 253.  
 Coats, vests, and pantaloons. David Marks & Sons. No. 73,275; Apr. 6; Gaz. vol. 141; p. 282.  
 Coats, vests, and pants. H. J. Cahn. No. 75,428; Oct. 5; Gaz. vol. 147; p. 231.  
 Coats, vests, and trousers, Men's and young men's clothing, comprising. Woodhull, Goodale & Bull. No. 74,789; Aug. 10; Gaz. vol. 145; p. 508.  
 Coats, vests, and trousers, Men's, youths', and children's. A. Decker & Cohn. No. 74,272; June 29; Gaz. vol. 143; p. 1340.  
 Coats, vests, trousers, and overcoats. M. Morrison. No. 73,413; Apr. 20; Gaz. vol. 141; p. 861.  
 Coats, vests, trousers, and overcoats. J. Corday. No. 73,584; May 4; Gaz. vol. 142; p. 283.  
 Coats, vests, trousers, and overcoats. Rose, Rodgers & Rose. No. 74,781; Aug. 10; Gaz. vol. 145; p. 507.  
 Coats, vests, trousers, and overcoats. Men's and boys'. E. and J. Margolis. No. 74,886; Aug. 17; Gaz. vol. 145; p. 760.  
 Coats, vests, trousers, overcoats, and hats. United Clothing Stores Co. No. 72,951; Mar. 2; Gaz. vol. 140; p. 252.  
 Cocks, nozzles, unions, and valves. Lunkenheimer Company. No. 75,747; Nov. 9; Gaz. vol. 148; p. 566.  
 Cocoa and chocolate. Holland Importing Company. No. 74,006; June 8; Gaz. vol. 143; p. 558.  
 Cocoa, cocoa-butter, and chocolate. Internationale Cacaofabrieken. No. 75,991; Dec. 7; Gaz. vol. 149; p. 305.  
 Code and cipher charts, cards, and books. N. M. Code Proprietary Limited. No. 74,388; July 6; Gaz. vol. 144; p. 273.  
 Codfish, Boneless. Lane-Libby Fisheries Co. No. 74,232; June 29; Gaz. vol. 143; p. 1339.  
 Codfish, Cured. Lane-Libby Fisheries Co. No. 73,520; Apr. 27; Gaz. vol. 141; p. 1158.  
 Codfish, Cured boneless. Lane-Libby Fisheries Co. No. 74,048; June 15; Gaz. vol. 143; p. 859.  
 Codfish in shreds. Lane-Libby Fisheries Co. No. 72,905; Mar. 2; Gaz. vol. 140; p. 251.  
 Codfish, Prepared. Lane-Libby Fisheries Co. No. 72,906; Mar. 2; Gaz. vol. 140; p. 251.  
 Coffee. Arbuckle Brothers. No. 72,086; Jan. 5; Gaz. vol. 138; p. 251.  
 Coffee. Richert Bros. No. 72,235; Jan. 12; Gaz. vol. 138; p. 523.  
 Coffee. Fort Smith Commission Company. No. 72,453; Jan. 26; Gaz. vol. 138; p. 960.  
 Coffee. Firm of J. A. Wülfing. No. 72,455; Jan. 26; Gaz. vol. 138; p. 960.  
 Coffee. Geiger-Tinney Co. No. 72,794; Feb. 23; Gaz. vol. 139; p. 955.  
 Coffee. Johnson Bros. No. 72,798; Feb. 23; Gaz. vol. 139; p. 955.  
 Coffee. Renfro Bros. Co. No. 73,382; Apr. 13; Gaz. vol. 141; p. 563.  
 Coffee. T. C. Jenkins. No. 73,448; Apr. 20; Gaz. vol. 141; p. 862.  
 Coffee. Telfer Coffee Company. No. 73,604; May 4; Gaz. vol. 142; p. 284.  
 Coffee. Chas. W. Bauermeister Company. No. 73,753; May 18; Gaz. vol. 142; p. 851.  
 Coffee. A. Weber Coffee Company. No. 73,791; May 18; Gaz. vol. 142; p. 852.  
 Coffee. Telfer Coffee Company. No. 74,165; June 22; Gaz. vol. 143; p. 1104.  
 Coffee. Fletcher Coffee & Spice Co. No. 74,249; June 29; Gaz. vol. 143; p. 1340.  
 Coffee. American Coffee Co. of N. O. No. 74,260; June 29; Gaz. vol. 143; p. 1340.  
 Coffee. C. F. Blanke Tea & Coffee Company. No. 74,434; July 13; Gaz. vol. 144; p. 558.  
 Coffee. C. L. Purinton. No. 74,482; July 13; Gaz. vol. 144; p. 559.



*Alphabetical list of trade-marks—Continued.*

- Coffee. Jones-Paddock Co. No. 74,732; Aug. 3; Gaz. vol. 145; p. 252.  
 Coffee. Crump & Field. No. 74,963; Aug. 24; Gaz. vol. 145; p. 1017.  
 Coffee. Dwinell-Wright Company. No. 75,042; Aug. 31; Gaz. vol. 145; p. 1245.  
 Coffee. Norwine Coffee Company. No. 75,283; Sept. 21; Gaz. vol. 146; p. 715.  
 Coffee. Rely-Taylor Company. No. 75,410; Sept. 28; Gaz. vol. 146; p. 954.  
 Coffee. Fort Smith Coffee Company. No. 75,620; Oct. 26; Gaz. vol. 147; p. 1031.  
 Coffee. O'Neill-Adams Co. No. 75,876; Nov. 23; Gaz. vol. 148; p. 1082.  
 Coffee. National Coffee Co. No. 75,941; Nov. 30; Gaz. vol. 148; p. 1339.  
 Coffee. International Tea Company's Stores. No. 75,992; Dec. 7; Gaz. vol. 149; p. 305.  
 Coffee. Dwinell-Wright Company. No. 76,070; Dec. 14; Gaz. vol. 149; p. 597.  
 Coffee and chicory, Compound of roasted. New Orleans Coffee Co. No. 75,874; Nov. 23; Gaz. vol. 148; p. 1082.  
 Coffee and chicory, Roasted. Sherman Bros. & Co. No. 75,062; Aug. 31; Gaz. vol. 145; p. 1246.  
 Coffee and flavoring extracts, Roasted. Nave-McCord Mercantile Co. No. 74,692; Aug. 3; Gaz. vol. 145; p. 252.  
 Coffee and spice mill machinery and coffee-roasters. Jabez Burns & Sons. No. 73,447; Apr. 20; Gaz. vol. 141; p. 862.  
 Coffee and tea. Brownell & Field Company. No. 72,215; Jan. 12; Gaz. vol. 138; p. 523.  
 Coffee and tea, Glazed. John Blaul's Sons Company. No. 73,449; Apr. 20; Gaz. vol. 141; p. 862.  
 Coffee, Blend. Dayton Spice Mills Co. No. 72,791; Feb. 23; Gaz. vol. 139; p. 985.  
 Coffee, Blended. Bennett, Sloan & Co. No. 72,213; Jan. 12; Gaz. vol. 138; p. 523.  
 Coffee, Blended. Park & Tilford. No. 72,748; Feb. 16; Gaz. vol. 139; p. 726.  
 Coffee, Blended. Oliver-Finnie Co. No. 73,110; Mar. 16; Gaz. vol. 140; p. 752.  
 Coffee, Blended. Fort Smith Coffee Company. No. 73,456; Apr. 20; Gaz. vol. 141; p. 862.  
 Coffee, Blended. Burns and Reed. No. 73,582; May 4; Gaz. vol. 142; p. 283.  
 Coffee, Blended. Commercial Importing Company. No. 73,674; May 11; Gaz. vol. 142; p. 563.  
 Coffee, Blended. Dannemiller Coffee Company. No. 73,914; June 1; Gaz. vol. 143; p. 253.  
 Coffee, Blended. Arbuckle Brothers. No. 74,037; June 15; Gaz. vol. 143; p. 859.  
 Coffee, Blended. S. S. Pierce Co. No. 74,053; June 15; Gaz. vol. 143; p. 859.  
 Coffee, Blended. Teller Coffee Company. No. 74,259; June 29; Gaz. vol. 143; p. 1340.  
 Coffee, Blended. W. H. Harrison & Co. No. 74,858; Aug. 17; Gaz. vol. 145; p. 759.  
 Coffee, Blended. J. M. Bour Company. No. 74,883; Aug. 17; Gaz. vol. 145; p. 760.  
 Coffee, Blended. Dwinell-Wright Company. No. 74,922; Aug. 17; Gaz. vol. 145; p. 761.  
 Coffee, Blended. G. E. Bursley & Company. No. 75,183; Sept. 14; Gaz. vol. 146; p. 501.  
 Coffee, Blended. Leege & Haskins. No. 75,268; Sept. 14; Gaz. vol. 146; p. 503.  
 Coffee, Blended. F. H. Blighton. No. 75,498; Oct. 12; Gaz. vol. 147; p. 513.  
 Coffee, Blended. Clark Grocery Co. No. 75,740; Nov. 9; Gaz. vol. 148; p. 566.  
 Coffee, Blended. E. Courtaide. No. 75,801; Nov. 16; Gaz. vol. 148; p. 828.  
 Coffee, Blended. Norwine Coffee Company. No. 75,814; Nov. 16; Gaz. vol. 148; p. 828.  
 Coffee, Blended. Austin, Nichols & Co. No. 75,919; Nov. 30; Gaz. vol. 148; p. 1339.  
 Coffee, Blended. J. M. Bour Company. No. 75,939; Nov. 30; Gaz. vol. 148; p. 1339.  
 Coffee, Blended. Norton & Curd Coffee Co. No. 76,080; Dec. 14; Gaz. vol. 149; p. 597.  
 Coffee, Blended. Burns and Reed. No. 76,202; Dec. 28; Gaz. vol. 149; p. 1115.  
 Coffee, Blended roasted. Renfro Bros. Co. No. 73,525; Apr. 27; Gaz. vol. 141; p. 1158.  
 Coffee, Blended roasted. J. J. Schotten. No. 73,527; Apr. 27; Gaz. vol. 141; p. 1158.  
 Coffee, Blended roasted. John Hoffmann & Sons Co. Nos. 74,043-4; June 15; Gaz. vol. 143; p. 859.  
 Coffee, Blended roasted. John Hoffmann & Sons Company. No. 74,885; Aug. 17; Gaz. vol. 145; p. 760.  
 Coffee, Blended roasted. John Hoffmann & Sons Co. No. 74,968; Aug. 24; Gaz. vol. 145; p. 1017.  
 Coffee cereal substitute. J. W. Christiansen. No. 72,893; Mar. 2; Gaz. vol. 140; p. 249.  
 Coffee, Imitation. A. Zippel. No. 74,790; Aug. 10; Gaz. vol. 145; p. 508.  
 Coffee, Mexican. A. J. Roberts. No. 73,784; May 18; Gaz. vol. 142; p. 852.  
 Coffee, olive-oil, flavoring extracts, spices, and German bird-seed. Leege & Haskins. No. 75,087; Aug. 31; Gaz. vol. 145; p. 1246.  
 Coffee, Roasted. Stewart & Co. No. 72,592; Feb. 2; Gaz. vol. 139; p. 195.  
 Coffee, Roasted. Tennessee Coffee Co. No. 73,245; Apr. 6; Gaz. vol. 141; p. 281.  
 Coffee, Roasted. S. S. Beard & Co. No. 74,002; June 8; Gaz. vol. 143; p. 558.  
 Coffee, Roasted. J. A. Folger & Company. Nos. 74,944-50; Aug. 24; Gaz. vol. 145; p. 1017.  
 Coffee, Roasted. Fischer Brothers. No. 75,077; Aug. 31; Gaz. vol. 145; p. 1246.  
 Coffee, Roasted. Sherman Bros. & Co. No. 75,137; Sept. 7; Gaz. vol. 146; p. 251.  
 Coffee, Roasted. Climax Coffee & Baking Powder Company. No. 76,067; Dec. 14; Gaz. vol. 149; p. 597.  
 Coffees. W. McMurray. No. 72,120; Jan. 5; Gaz. vol. 138; p. 252.  
 Coke. Girvin & Eyre. No. 76,115; Dec. 14; Gaz. vol. 149; p. 598.  
 Collar and cuff protectors. S. Nickelsburg. No. 74,479; July 13; Gaz. vol. 144; p. 559.  
 Collar-clips and collar-buttons. Joseph & Schoen. No. 76,186; Dec. 21; Gaz. vol. 149; p. 830.  
 Collars and cuffs. W. Heymann. No. 73,238; Apr. 6; Gaz. vol. 141; p. 281.  
 Collars and cuffs, Composition. W. Heymann. No. 73,239; Apr. 6; Gaz. vol. 141; p. 281.  
 Collars and cuffs, Textile. Hutchinson, Pierce & Co. No. 75,914; Nov. 23; Gaz. vol. 148; p. 1083.  
 Collars, cuffs, and shirt-fronts. Parsons & Parsons Company. No. 75,945; Nov. 30; Gaz. vol. 148; p. 1339.  
 Cologne. Eleto Company. No. 74,802; Aug. 10; Gaz. vol. 145; p. 508.  
 Coloring-matters, Coal-tar. Badische Anilin & Soda Fabrik. No. 76,244; Dec. 28; Gaz. vol. 149; p. 1116.  
 Colors, Mortar-. Chattanooga Paint Co. No. 75,799; Nov. 16; Gaz. vol. 148; p. 828.  
 Combs. G. L. Winn. No. 72,179; Jan. 5; Gaz. vol. 138; p. 253.  
 Communiting-machines and grinding and pulverizing mills. Holzhäuersche Maschinenfabrik-Gesellschaft mit beschränkter Haftung. No. 74,284; June 29; Gaz. vol. 143; p. 1341.  
 Compasses and dividers. Eagle Pencil Company. No. 75,470; Oct. 5; Gaz. vol. 147; p. 232.  
 Complexion-cream. Piso Company. No. 72,822; Feb. 23; Gaz. vol. 139; p. 986.  
 Complexion-wash. O. L. Erickson. No. 72,485; Jan. 26; Gaz. vol. 138; p. 961.  
 Concrete machinery, Certain. Ideal Concrete Machinery Company. No. 73,177; Mar. 23; Gaz. vol. 140; p. 998.  
 Concrete curbs, Metal corner-bars for. Steel Protected Concrete Co. No. 75,753; Nov. 9; Gaz. vol. 148; p. 566.  
 Concrete, Material for waterproofing. Toch Brothers. No. 74,840; Aug. 10; Gaz. vol. 145; p. 509.  
 Concrete pavements. R. S. Blome Company. No. 72,860; Mar. 2; Gaz. vol. 140; p. 249.  
 Condensers, Jet and surface. Wheeler Condenser & Engineering Co. No. 74,030; June 8; Gaz. vol. 143; p. 559.  
 Confection of nuts, popcorn, and syrup. Pe-Co-Pop Co. of Baltimore City. No. 72,586; Feb. 2; Gaz. vol. 139; p. 195.  
 Confection of phenolphthalein, Laxative. John Wyeth & Brother. No. 73,189; Mar. 30; Gaz. vol. 140; p. 1203.  
 Confections. W. E. Williams. No. 75,590; Oct. 19; Gaz. vol. 147; p. 768.  
 Confectionery. Gunther Confection & Chocolate Co. No. 74,942; Aug. 24; Gaz. vol. 145; p. 1017.  
 Construction material, Certain named. Ford Manufacturing Co. No. 75,013; Aug. 24; Gaz. vol. 145; p. 1019.  
 Construction materials, Certain. Standard Paint Co. No. 74,353; July 6; Gaz. vol. 144; p. 272.  
 Construction materials, Certain. J. A. Zibell. No. 74,598; July 27; Gaz. vol. 144; p. 1085.  
 Construction materials, Certain. Union Roofing & Manufacturing Company. No. 75,194; Sept. 14; Gaz. vol. 146; p. 501.  
 Cookies. Perfection Biscuit Company. No. 75,445; Oct. 5; Gaz. vol. 147; p. 231.  
 Cooking utensils, Metal. Avery Stamping Company. No. 72,994; Mar. 9; Gaz. vol. 140; p. 502.  
 Copies of plans and specifications. C. A. P. Turner. No. 74,167; June 22; Gaz. vol. 143; p. 1104.  
 Copy-multiplying machines. Bosworth-Staley Company. No. 75,712; Nov. 9; Gaz. vol. 148; p. 565.  
 Cord, twine, rope, and clothes-line, Sash-. Puritan Cordage Mills. No. 76,156; Dec. 21; Gaz. vol. 149; p. 829.  
 Cordial. G. Aquino. No. 72,140; Jan. 5; Gaz. vol. 138; p. 252.  
 Cordial. W. A. Sanoica. No. 73,726; May 11; Gaz. vol. 142; p. 565.  
 Cordial. G. Alberti. No. 75,549; Oct. 19; Gaz. vol. 147; p. 767.  
 Cordial containing wine, quinquina, and brandy. G. Stiegler & Co. No. 72,502; Jan. 26; Gaz. vol. 138; p. 962.  
 Cordial, Fruit. S. Loewenthal. No. 73,644; May 4; Gaz. vol. 142; p. 285.  
 Cordial, Peach. M. A. Dillon. No. 75,011; Aug. 24; Gaz. vol. 145; p. 1019.  
 Cordials. Liebenhaft Bros & Co. No. 74,826; Aug. 10; Gaz. vol. 145; p. 509.  
 Cordials. Amsterdamsche Likeurstokerij "T Loojsje" der Erven Lucas Bols. No. 74,897; Aug. 17; Gaz. vol. 145; p. 760.  
 Cordials. Henry H. Shufeldt & Co. No. 75,714; Nov. 9; Gaz. vol. 148; p. 565.  
 Cordials. Dr. J. G. B. Siebert & Hijos. No. 75,717; Nov. 9; Gaz. vol. 148; p. 565.  
 Core compound. Chicago Milling Company. No. 74,269; June 29; Gaz. vol. 143; p. 1340.

*Alphabetical list of trade-marks—Continued.*

- Cork, Artificial. Crown Cork and Seal Co. No. 73,322; Apr. 13; Gaz. vol. 141; p. 561.  
 Corkscrews and certain cutlery. F. A. Koch & Co. No. 75,364; Sept. 28; Gaz. vol. 146; p. 953.  
 Corn-chops. Gulfport Grocery Co. Nos. 74,588-9; July 27; Gaz. vol. 144; p. 1085.  
 Corn products, Flaked. American Hominy Company. No. 73,170; Mar. 23; Gaz. vol. 140; p. 997.  
 Corn-starch. S. S. Pierce Co. No. 75,627; Oct. 26; Gaz. vol. 147; p. 1032.  
 Corn, wart, bunion, callous, &c., paste. M. Goldstein. No. 73,064; Mar. 16; Gaz. vol. 140; p. 751.  
 Cornmeal. American Hominy Company. No. 73,433; Apr. 20; Gaz. vol. 141; p. 862.  
 Cornmeal, pearled hominy, and hominy-grits. Great Western Cereal Company. No. 75,622; Oct. 26; Gaz. vol. 147; p. 1031.  
 Corset and garment stays. M. Cohn and Company. No. 74,472; July 13; Gaz. vol. 144; p. 559.  
 Corset-steels. H. W. Gossard Company. No. 75,785; Nov. 16; Gaz. vol. 148; p. 827.  
 Corset-waists. H & W Company. No. 74,926; Aug. 17; Gaz. vol. 145; p. 761.  
 Corsets. J. Beckel & Co. No. 72,416; Jan. 26; Gaz. vol. 138; p. 959.  
 Corsets. Corset H Company. No. 72,546; Feb. 2; Gaz. vol. 139; p. 194.  
 Corsets. Madame Irène. Nos. 72,552-4; Feb. 2; Gaz. vol. 139; p. 194.  
 Corsets. American Lady Corset Co. Nos. 72,783-4; Feb. 23; Gaz. vol. 139; p. 985.  
 Corsets. International Corset Co. No. 72,870; Mar. 2; Gaz. vol. 140; p. 249.  
 Corsets. Royal Worcester Corset Co. No. 73,063; Mar. 16; Gaz. vol. 140; p. 751.  
 Corsets. Higbee Company. No. 73,491; Apr. 27; Gaz. vol. 141; p. 1157.  
 Corsets. Madame Irène. No. 73,588; May 4; Gaz. vol. 142; p. 283.  
 Corsets. T. Schottlander. No. 74,155; June 22; Gaz. vol. 143; p. 1104.  
 Corsets. American Lady Corset Co. No. 74,217; June 29; Gaz. vol. 143; p. 1339.  
 Corsets. Chas. A. Stevens & Bros. No. 74,361; July 6; Gaz. vol. 144; p. 272.  
 Corsets. M. Schwartz. No. 74,699; Aug. 3; Gaz. vol. 145; p. 251.  
 Corsets. Gimbel Brothers. No. 74,766; Aug. 10; Gaz. vol. 145; p. 507.  
 Corsets. Madame Irène. No. 75,254; Sept. 14; Gaz. vol. 146; p. 503.  
 Corsets. Therese Hynds Mfg. Co. No. 75,458; Oct. 5; Gaz. vol. 147; p. 232.  
 Corsets. Corset H Company. No. 75,724; Nov. 9; Gaz. vol. 148; p. 565.  
 Corsets and corset-waists. J. Garfinkle. No. 72,276; Jan. 12; Gaz. vol. 138; p. 524.  
 Corsets, brassières, bust-confiners, &c. Benjamin & Johnes. No. 75,424; Oct. 5; Gaz. vol. 147; p. 231.  
 Corsets, corset-covers, corset-waists, &c. Benjamin & Johnes. No. 74,898; Aug. 17; Gaz. vol. 145; p. 760.  
 Corsets, corset-waists, and bust-supporters. Kalamazoo Corset Co. No. 74,504; July 20; Gaz. vol. 144; p. 813.  
 Corsets, corset-waists, and corset-covers. A. M. Jones. No. 72,283; Jan. 12; Gaz. vol. 138; p. 525.  
 Corsets, corset-waists, brassières, and underwaists. H & W Company. No. 76,208; Dec. 28; Gaz. vol. 149; p. 1115.  
 Cosmetic preparation. Marietta Stanley Company. No. 74,739; Aug. 3; Gaz. vol. 145; p. 252.  
 Cotton, Absorbent. United Drug Company. No. 73,654; May 4; Gaz. vol. 142; p. 285.  
 Cotton blankets. German American Company. No. 76,230; Dec. 28; Gaz. vol. 149; p. 1116.  
 Cotton, Carded. Wonalancet Company. No. 75,823; Nov. 16; Gaz. vol. 148; p. 829.  
 Cotton chevots. C. J. Milne & Sons. No. 74,931; Aug. 17; Gaz. vol. 145; p. 761.  
 Cotton chevots, Woven. Neuss, Hesslein & Co. Nos. 75,477-8; Oct. 5; Gaz. vol. 147; p. 232.  
 Cotton damask. Rosemary Manufacturing Company. Nos. 72,826-7; Feb. 23; Gaz. vol. 139; p. 986.  
 Cotton dress goods. L. Hess & Co. No. 73,591; May 4; Gaz. vol. 142; p. 283.  
 Cotton dress goods, White and colored. L. Hess & Co. No. 74,316; July 6; Gaz. vol. 144; p. 271.  
 Cotton duck. John Boyle & Co. No. 72,281; Jan. 12; Gaz. vol. 138; p. 525.  
 Cotton duck. Wellington, Sears & Co. Nos. 72,393-4; Jan. 19; Gaz. vol. 138; p. 765.  
 Cotton duck. Curran & Barry. No. 74,199; June 22; Gaz. vol. 143; p. 1105.  
 Cotton flannels. Tootle Wheeler & Motter Mer. Co. Nos. 73,073-4; Mar. 16; Gaz. vol. 140; p. 751.  
 Cotton goods, Bleached. Deering, Milliken & Co. No. 75,527; Oct. 12; Gaz. vol. 147; p. 514.  
 Cotton goods having napped surfaces, Woven. Amoskeag Manufacturing Company. Nos. 74,192-3; June 22; Gaz. vol. 143; p. 1105.  
 Cotton goods woven in colors. Amoskeag Manufacturing Company. No. 73,420; Apr. 20; Gaz. vol. 141; p. 861.  
 Cotton long-cloth. Dayton Dry Goods Co. No. 75,359; Sept. 28; Gaz. vol. 146; p. 953.  
 Cotton napkins. Rosemary Manufacturing Company. No. 72,825; Feb. 23; Gaz. vol. 139; p. 986.  
 Cotton napkins. Rosemary Manufacturing Company. No. 72,828; Feb. 23; Gaz. vol. 139; p. 986.  
 Cotton piece goods. C. Whitman & Co. No. 72,139; Jan. 5; Gaz. vol. 138; p. 252.  
 Cotton piece goods. Massachusetts Cotton Mills. No. 72,154; Jan. 5; Gaz. vol. 138; p. 253.  
 Cotton piece goods. Norton Pratt Co. No. 72,165; Jan. 5; Gaz. vol. 138; p. 253.  
 Cotton piece goods. Millville Manufacturing Company. No. 72,541; Feb. 2; Gaz. vol. 139; p. 194.  
 Cotton piece goods. Tootle Campbell Dry Goods Co. No. 72,641; Feb. 9; Gaz. vol. 139; p. 458.  
 Cotton piece goods. Eddystone Manufacturing Company. No. 73,440; Apr. 20; Gaz. vol. 141; p. 862.  
 Cotton piece goods. Marshall Field & Company. No. 73,722; May 11; Gaz. vol. 142; p. 564.  
 Cotton piece goods. Massachusetts Cotton Mills. No. 74,322; July 6; Gaz. vol. 144; p. 271.  
 Cotton piece goods. I. Gelbrunk. Nos. 75,471-2; Oct. 5; Gaz. vol. 147; p. 232.  
 Cotton piece goods. I. Gelbrunk. No. 75,665; Nov. 2; Gaz. vol. 148; p. 275.  
 Cotton piece goods. F. Butterfield & Co. No. 75,678; Nov. 2; Gaz. vol. 148; p. 275.  
 Cotton piece goods. Providence Dyeing Bleaching and Calendering Company. No. 75,971; Nov. 30; Gaz. vol. 148; p. 1340.  
 Cotton piece goods, Bleached. Deering, Milliken & Co. Nos. 74,685-6; Aug. 3; Gaz. vol. 145; p. 251.  
 Cotton piece goods, Bleached. Deering, Milliken & Co. Nos. 74,981-2; Aug. 24; Gaz. vol. 145; p. 1018.  
 Cotton piece goods, Mercerized. C. Whitman & Co. No. 72,138; Jan. 5; Gaz. vol. 138; p. 252.  
 Cotton plaid shirtings. Cone Export and Commission Company. No. 75,112; Sept. 7; Gaz. vol. 146; p. 251.  
 Cotton plaids and checks. Riverside Cotton Mills. Nos. 73,899-902; June 1; Gaz. vol. 143; p. 253.  
 Cotton plaids and checks. Riverside Cotton Mills. Nos. 73,904-8; June 1; Gaz. vol. 143; p. 253.  
 Cotton plaids and checks. Riverside Cotton Mills. No. 74,049; June 15; Gaz. vol. 143; p. 859.  
 Cotton plaids, checks, chevots, &c. Riverside Cotton Mills. No. 73,903; June 1; Gaz. vol. 143; p. 253.  
 Cotton-seed meal. Apache Cotton Oil & Manufacturing Company. No. 74,036; June 15; Gaz. vol. 143; p. 859.  
 Cotton-seed meal. F. W. Brodè. No. 75,690; Nov. 2; Gaz. vol. 148; p. 276.  
 Cotton-seed meal for feeding purposes. Union Oil Company. No. 76,189; Dec. 21; Gaz. vol. 149; p. 830.  
 Cotton-seed oil intended for use as salad-oil. Union Oil Company. Nos. 72,342-3; Jan. 19; Gaz. vol. 138; p. 764.  
 Cotton shirtings. Riverside Cotton Mills. No. 74,266; June 29; Gaz. vol. 143; p. 1340.  
 Cotton waste. Riverside Mills. Nos. 72,386-7; Jan. 19; Gaz. vol. 138; p. 765.  
 Cotton, wool, and mixed cotton and wool piece goods. W. H. Brown Son & Co. No. 72,142; Jan. 5; Gaz. vol. 138; p. 252.  
 Couches and beds. D. T. Owen Co. No. 75,839; Nov. 23; Gaz. vol. 148; p. 1081.  
 Cough-balsam. V. Schmidt. No. 75,098; Aug. 31; Gaz. vol. 145; p. 1247.  
 Cough-drops. E. J. Smith. No. 72,207; Jan. 5; Gaz. vol. 138; p. 254.  
 Cough-drops. E. Ellsworth. No. 72,792; Feb. 23; Gaz. vol. 139; p. 985.  
 Cough-drops. J. J. Eckert. No. 72,839; Mar. 2; Gaz. vol. 140; p. 249.  
 Cough remedy. H. Faul. No. 74,412; July 13; Gaz. vol. 144; p. 557.  
 Cough-syrup. J. Dumas. No. 72,242; Jan. 12; Gaz. vol. 138; p. 524.  
 Coughs, colds, and tuberculosis, Tea for. J. J. Bates. No. 73,060; Mar. 16; Gaz. vol. 140; p. 751.  
 Counting-machines. C. J. Root Company. No. 74,899; Aug. 17; Gaz. vol. 145; p. 760.  
 Court-plaster. S. E. Howe. No. 76,090; Dec. 14; Gaz. vol. 149; p. 597.  
 Coultis, batistes, satins, tricot, &c. E. de Grandmont. No. 75,846; Nov. 23; Gaz. vol. 148; p. 1081.  
 Cows, horses, and mules. I. O. Olsen. No. 75,094; Aug. 31; Gaz. vol. 145; p. 1247.  
 Crackers. Iten Biscuit Co. No. 74,254; June 29; Gaz. vol. 143; p. 1340.  
 Crackers and cakes. Dayton Biscuit Co. No. 75,987; Dec. 7; Gaz. vol. 149; p. 305.  
 Crackers and cookies, Soda. Robert A. Johnston Company. No. 74,050; June 15; Gaz. vol. 143; p. 859.  
 Crackers, biscuit, cookies, cakes, and snaps. Empire Cracker & Candy Company. No. 74,005; June 8; Gaz. vol. 143; p. 558.  
 Crackers, biscuits, cake, cookies, and bread. Ward-Mackey Co. No. 75,887; Nov. 23; Gaz. vol. 148; p. 1082.  
 Cranberries. New England Cranberry Sales Co. Nos. 72,104-7; Jan. 5; Gaz. vol. 138; p. 251.  
 Cranberries. New England Cranberry Sales Co. Nos. 72,121-2; Jan. 5; Gaz. vol. 138; p. 252.  
 Crape cloth. Pacific Mills. No. 74,350; July 6; Gaz. vol. 144; p. 272.  
 Crates. Cummer Mfg. Co. No. 74,125; June 22; Gaz. vol. 143; p. 1103.  
 Crates, Egg-. E. E. Yerdou. No. 74,169; June 22; Gaz. vol. 143; p. 1104.  
 Crayons and lead and slate pencils. Binney & Smith Company. No. 74,009; June 8; Gaz. vol. 143; p. 558.



*Alphabetical list of trade-marks—Continued.*

- Cream and face-powder, Cold-. S. Werner & Company. No. 74,580; July 20; Gaz. vol. 144; p. 815.  
 Cream, Camphor toilet. G. H. Dietz. No. 73,889; June 1; Gaz. vol. 143; p. 253.  
 Cream Cold-. C. E. Keeler. No. 73,296; Apr. 6; Gaz. vol. 141; p. 283.  
 Cream, Complexion-. Pilsco Company. Nos. 72,722-5; Feb. 16; Gaz. vol. 139; p. 725.  
 Cream, Complexion-. Pilsco Company. No. 72,847; Mar. 2; Gaz. vol. 140; p. 249.  
 Cream for the skin, tooth-powder, face-powder, and perfumes. De Lacy Chemical Co. No. 73,796; May 18; Gaz. vol. 142; p. 852.  
 Cream, Massage-. Der-mo-tine Company. No. 72,838; Mar. 2; Gaz. vol. 140; p. 249.  
 Cream of tartar. J. A. Folger & Company. No. 74,817; Aug. 10; Gaz. vol. 145; p. 509.  
 Cream, Peroxid. Oxygen Products Company. No. 75,669; Nov. 2; Gaz. vol. 148; p. 275.  
 Cream-separators. F. C. McMullen. No. 74,099; June 15; Gaz. vol. 143; p. 860.  
 Cream-separators, Centrifugal. Märkische Maschinenbauanstalt Teutonia (Gesellschaft mit beschränkter Haftung). No. 74,141; June 22; Gaz. vol. 143; p. 1103.  
 Cream, Toilet. Marietta Stanley Company. No. 73,529; Apr. 27; Gaz. vol. 141; p. 1158.  
 Cream, Toilet. J. A. Brown. No. 74,086; June 15; Gaz. vol. 143; p. 860.  
 Cream, Toilet. Eleto Company. No. 74,410; July 13; Gaz. vol. 144; p. 557.  
 Cream, Toilet. S. Marulescu. No. 74,647; July 27; Gaz. vol. 144; p. 1086.  
 Creams and powders, Face. Mrs. Nettie Harrison Co. No. 74,563; July 20; Gaz. vol. 144; p. 815.  
 Creams, face-powder, and skin food. De Meridor Co. No. 75,303; Sept. 21; Gaz. vol. 146; p. 716.  
 Crockery, earthenware, and porcelain. I. Strauss & Co. No. 73,985; June 8; Gaz. vol. 143; p. 557.  
 Croup-ointment. H. Kephart & Son. No. 73,067; Mar. 16; Gaz. vol. 140; p. 751.  
 Cuffs, Textile. W. S. Freeman. No. 73,081; Mar. 16; Gaz. vol. 140; p. 751.  
 Cultivators. Swanson Mfg. Co. No. 73,118; Mar. 16; Gaz. vol. 140; p. 752.  
 Cultivators, harrows, and drills. Roderick Lean Manufacturing Co. No. 74,299; June 29; Gaz. vol. 143; p. 1341.  
 Currycombs. A. C. Decker. No. 74,248; June 29; Gaz. vol. 143; p. 1340.  
 Curtain-rods and parts and ornaments therefor. C. P. Henry Novelty Company. No. 76,016; Dec. 7; Gaz. vol. 149; p. 306.  
 Cutlery and tools, Certain. P. A. Reuss. No. 73,088; Mar. 16; Gaz. vol. 140; p. 752.  
 Cutlery, Certain. D. Peres. No. 72,302; Jan. 12; Gaz. vol. 138; p. 525.  
 Cutlery, Certain. M. Klaas. No. 75,187; Sept. 14; Gaz. vol. 146; p. 501.  
 Cutter and matcher heads. Samuel J. Shimer & Sons. No. 72,408; Jan. 26; Gaz. vol. 138; p. 959.  
 Cutting compound. Cataract Refining and Manufacturing Company. No. 73,546; Apr. 27; Gaz. vol. 141; p. 1158.  
 Cycle driving-belts, Motor-. Honover Vulcanite Co. No. 74,814; Aug. 10; Gaz. vol. 145; p. 508.  
 Cycles, bicycles, and package-delivery cycles, Motor-. Brown & Beck. No. 75,653; Oct. 26; Gaz. vol. 147; p. 1032.  
 Cylinder and disk records. Premier Manufacturing Company. No. 72,881; Mar. 2; Gaz. vol. 140; p. 249.  
 Decorating and coloring materials, Certain. Roessler & Hasslacher Chemical Co. No. 72,171; Jan. 5; Gaz. vol. 138; p. 532.  
 Dental alloys. T. G. Vernon. No. 74,578; July 20; Gaz. vol. 144; p. 815.  
 Dental instruments for the treatment of pyorrhea. C. M. Carr. No. 73,159; Mar. 23; Gaz. vol. 140; p. 997.  
 Dentifrice and antiseptic. Eleto Company. No. 76,109; Dec. 14; Gaz. vol. 149; p. 598.  
 Dentifrice, Cream. Maplis Chemical Company. No. 75,866; Nov. 23; Gaz. vol. 148; p. 1082.  
 Dentifrice, dental powder, cream, and paste. F. A. Luyties. No. 76,253; Dec. 28; Gaz. vol. 149; p. 1116.  
 Depilatory tablets. C. H. Bellin. No. 75,330; Sept. 21; Gaz. vol. 146; p. 716.  
 Desks and combined desks and seats, School-. T. Kundtz. No. 73,925; June 1; Gaz. vol. 143; p. 254.  
 Desks and tables. Commercial Furniture Company. No. 74,720; Aug. 3; Gaz. vol. 145; p. 252.  
 Desks, filing-cases, bookcases, and attachments therefor. J. S. McComb. No. 72,558; Feb. 2; Gaz. vol. 139; p. 194.  
 Diamonds, Imitation. A. W. Engel. No. 75,661; Nov. 23; Gaz. vol. 148; p. 275.  
 Diaper-cloth. A. D. Smith. No. 75,911; Nov. 23; Gaz. vol. 148; p. 1083.  
 Diaper-cloth. A. D. Smith. No. 76,060; Dec. 7; Gaz. vol. 149; p. 307.  
 Dictionaries and grammars. Langenscheidtsche Verlagsbuchhandlung (Prof. G. Langenscheidt). No. 73,412; Apr. 20; Gaz. vol. 141; p. 861.  
 Dip and disinfectant for live stock. Tropical Oil Company. No. 75,459; Oct. 5; Gaz. vol. 147; p. 232.  
 Dish-washing machines. Z. S. & C. L. Randleman. No. 72,823; Feb. 23; Gaz. vol. 139; p. 986.  
 Disinfectant. Pearson's Antiseptic. No. 73,478; Apr. 20; Gaz. vol. 141; p. 863.  
 Disinfectant, Liquid. W. Cooper & Nephews. No. 74,852; Aug. 17; Gaz. vol. 145; p. 759.  
 Disinfectants. H. Schneider. No. 73,301; Apr. 6; Gaz. vol. 141; p. 283.  
 Disinfectants. Corkins Chemical Company. No. 73,880; May 25; Gaz. vol. 142; p. 1110.  
 Disinfectants. Drew Stranahan Hussey Co. No. 74,275; June 29; Gaz. vol. 143; p. 1340.  
 Disinfectants. Rochester Germicide Company. Nos. 74,419-20; July 13; Gaz. vol. 144; p. 557.  
 Disinfectants and deodorizers. Shoemaker & Busch. No. 73,728; May 11; Gaz. vol. 142; p. 565.  
 Dolls. M. C. W. Foote. No. 74,368; July 6; Gaz. vol. 144; p. 272.  
 Dolls. F. A. Hays. Nos. 75,538-9; Oct. 12; Gaz. vol. 147; p. 514.  
 Doors and frames therefor, Fire-resisting. D. C. Meehan. No. 73,624; May 4; Gaz. vol. 142; p. 284.  
 Doors, Swinging. Rock Island Sash & Door Works. No. 75,648; Oct. 26; Gaz. vol. 147; p. 1032.  
 Drawers and undershirts. Hutchinson, Pierce & Co. No. 75,605; Oct. 26; Gaz. vol. 147; p. 1031.  
 Dress goods, Woven. Landenberger Manufacturing Co. No. 72,458; Jan. 26; Gaz. vol. 138; p. 961.  
 Dress-shields. Kora Co. No. 74,592; July 27; Gaz. vol. 144; p. 1085.  
 Dress skirts and waists, Ladies'. L. Deutsch. No. 73,489; Apr. 27; Gaz. vol. 141; p. 1157.  
 Dress-waists, Ladies'. Greenhut & Company. No. 74,768; Aug. 10; Gaz. vol. 145; p. 507.  
 Dresses. H. Black Company. Nos. 74,225-6; June 29; Gaz. vol. 143; p. 1339.  
 Drills and drill-chucks. Whitman & Barnes Manufacturing Company. No. 72,991; Mar. 9; Gaz. vol. 140; p. 502.  
 Drugs, chemicals, and pharmaceutical preparations, Certain. F. Hoffmann-La Roche & Co. No. 75,372; Sept. 28; Gaz. vol. 146; p. 953.  
 Ducks and drills. Waterproofed. Wellington, Sears & Co. No. 72,299; Jan. 12; Gaz. vol. 138; p. 525.  
 Dust-absorbing fabric. Disinfectant Dustlayer Company. No. 74,763; Aug. 10; Gaz. vol. 145; p. 507.  
 Dust-pans. H. E. Reeves. No. 73,783; May 18; Gaz. vol. 142; p. 852.  
 Dusting cloths. Howard Dustless-Duster Co. No. 74,771; Aug. 10; Gaz. vol. 145; p. 507.  
 Dyestuffs. Badische Anilin & Soda Fabrik. No. 76,243; Dec. 28; Gaz. vol. 149; p. 1116.  
 Dyestuffs, Coal-tar. Aniline Color and Extract Works, formerly John R. Geigy. No. 73,058; Mar. 16; Gaz. vol. 140; p. 751.  
 Dynamite and gelatinized powder. E. I. du Pont de Nemours Powder Company. No. 74,364; July 6; Gaz. vol. 144; p. 272.  
 Dynamos and magnetos. Henricks Novelty Company. No. 73,641; May 4; Gaz. vol. 142; p. 285.  
 Dynamos, current-regulators, switches, and electric lamps. Adams & Westlake Company. No. 73,130; Mar. 16; Gaz. vol. 140; p. 753.  
 Earthenware. Ozark Pottery Company. No. 76,037; Dec. 7; Gaz. vol. 149; p. 306.  
 Effervescent salts. Mu-col Company. No. 72,252; Jan. 12; Gaz. vol. 138; p. 524.  
 Egg-preservative. W. R. Wulfeck. No. 72,237; Jan. 12; Gaz. vol. 138; p. 523.  
 Eggs. Fox River Butter Company. No. 72,088; Jan. 5; Gaz. vol. 138; p. 251.  
 Ejectors, injectors, lubricators, &c. Lunkenheimer Company. No. 74,098; June 15; Gaz. vol. 143; p. 860.  
 Elastic webbing. Kops Bros. No. 74,204; June 22; Gaz. vol. 143; p. 1105.  
 Electric appliances, Certain. Economy Electric Company. No. 73,040; Mar. 9; Gaz. vol. 140; p. 503.  
 Electric batteries. American Electrical Novelty & Manufacturing Company. No. 76,010; Dec. 7; Gaz. vol. 149; p. 305.  
 Electric-conduit fittings. Fairmount Electric and Manufacturing Company. No. 72,865; Mar. 2; Gaz. vol. 140; p. 249.  
 Electric-conduit pipes. American Conduit Mfg. Co. No. 73,690; May 11; Gaz. vol. 142; p. 564.  
 Electric-light fixtures. Conneaut Company. No. 73,437; Apr. 20; Gaz. vol. 141; p. 862.  
 Electric machines, Dynamo-. Crocker-Wheeler Company. No. 72,547; Feb. 2; Gaz. vol. 139; p. 194.  
 Electric motors and dynamos and their parts. Garwood Electric Company. No. 76,114; Dec. 14; Gaz. vol. 149; p. 598.  
 Electric portables, electroliers, and electric lamps. Geo. Borgfeldt & Co. No. 75,892; Nov. 23; Gaz. vol. 148; p. 1082.  
 Electric pressure-fans, suction-fans, and exhausters. Natural Power Company. No. 74,478; July 13; Gaz. vol. 144; p. 559.  
 Electric supplies, Certain. Royal Battery Company. No. 73,724; May 11; Gaz. vol. 142; p. 564.  
 Electrical apparatus. American Electrical Novelty & Manufacturing Company. No. 76,009; Dec. 7; Gaz. vol. 149; p. 305.  
 Electrical apparatus, Certain. Porter & Berg. No. 72,168; Jan. 5; Gaz. vol. 138; p. 253.  
 Electrical apparatus, Certain. Kendrick & Davis. No. 72,372; Jan. 19; Gaz. vol. 138; p. 765.  
 Electrical apparatus, Certain. American Electrical Heater Co. No. 72,414; Jan. 26; Gaz. vol. 138; p. 959.  
 Electrical apparatus, Certain. Campbell Electric Company. No. 73,254; Apr. 6; Gaz. vol. 141; p. 281.  
 Electrical apparatus, machines, and supplies. Union Switch & Signal Company. No. 74,915; Aug. 17; Gaz. vol. 145; p. 761.  
 Electrical-apparatus regulators. Fort Wayne Electric Works. No. 76,177; Dec. 21; Gaz. vol. 149; p. 830.

*Alphabetical list of trade-marks—Continued.*

- Electrical batteries, Portable. Genesee Electric Manufacturing Company. No. 75,310; Sept. 21; Gaz. vol. 146; p. 716.  
 Electrical dry batteries. Nungesser Electric Battery Co. No. 74,890; Aug. 17; Gaz. vol. 145; p. 760.  
 Electrical goods, Certain. Excol Electric Heating Co. No. 72,710; Feb. 16; Gaz. vol. 139; p. 725.  
 Electrical goods, Certain. Pass & Seymour. No. 72,721; Feb. 16; Gaz. vol. 139; p. 725.  
 Electrical supplies, Certain. J. G. Schaff. No. 72,728; Feb. 16; Gaz. vol. 139; p. 725.  
 Electrical supplies, Certain. P. Bissell Company. No. 73,134; Mar. 16; Gaz. vol. 140; p. 753.  
 Electrically-heated apparatus for household use. Pelouze Electric Heater Co. No. 73,870; May 25; Gaz. vol. 142; p. 1110.  
 Electrodes and carbons for lamps. Electrocarbon A.-G. Nos. 75,116-17; Sept. 7; Gaz. vol. 146; p. 251.  
 Electromagnets. Acme Wire Company. No. 73,129; Mar. 16; Gaz. vol. 140; p. 753.  
 Embroidered emblems. Eisner, Spier & Rauner. No. 72,268; Jan. 12; Gaz. vol. 138; p. 524.  
 Embroideries. Reichenbach & Co. No. 74,075; June 15; Gaz. vol. 143; p. 860.  
 Embroideries. Ben Strauss Company. No. 74,118; June 22; Gaz. vol. 143; p. 1103.  
 Embroideries. Carson, Pirie, Scott & Co. Nos. 74,604-5; July 27; Gaz. vol. 144; p. 1085.  
 Embroideries and notions. Young, Smyth, Field Company. No. 75,388; Sept. 28; Gaz. vol. 146; p. 954.  
 Emergency-cases and surgical supplies. K. Mohr. No. 74,236; June 29; Gaz. vol. 143; p. 1339.  
 Emulsion. M. K. Weightman. No. 72,529; Feb. 2; Gaz. vol. 139; p. 193.  
 Enamel coatings. G. H. Baker. No. 72,815; Feb. 23; Gaz. vol. 139; p. 986.  
 Enameled household ware. Republic Metalware Company. No. 73,649; May 4; Gaz. vol. 142; p. 285.  
 Enameled metal articles. Enterprise Enamel Co. No. 72,709; Feb. 16; Gaz. vol. 139; p. 725.  
 Enameled metal ware. Strong-Battelle Mfg. Co. No. 72,625; Feb. 9; Gaz. vol. 139; p. 457.  
 Enameled metal ware. Strong-Battelle Mfg. Co. No. 74,213; June 22; Gaz. vol. 143; p. 1106.  
 Enameled metal ware. Norvell-Shapleigh Hardware Company. No. 76,126; Dec. 14; Gaz. vol. 149; p. 598.  
 Enameled sheet-metal ware. Norvell-Shapleigh Hardware Company. No. 72,231; Jan. 12; Gaz. vol. 138; p. 523.  
 Enameled sheet-metal ware. National Enameling & Stamping Co. No. 72,559; Feb. 2; Gaz. vol. 139; p. 194.  
 Engines and parts thereof, Internal-combustion. Loane-Hiltz Engineering Company of Baltimore City. No. 73,539; Apr. 27; Gaz. vol. 141; p. 1158.  
 Engines and parts thereof, Internal-combustion. Baum Iron Co. No. 75,351; Sept. 28; Gaz. vol. 146; p. 953.  
 Engines and their accessories, Gas and air. International Patent Corporation. No. 72,369; Jan. 19; Gaz. vol. 138; p. 764.  
 Engines and their parts, Explosive. Ford Motor Company. No. 74,765; Aug. 10; Gaz. vol. 145; p. 507.  
 Engines, Certain. Litchfield Foundry & Machine Co. No. 73,538; Apr. 27; Gaz. vol. 141; p. 1158.  
 Engines, Explosive. S. M. Jones Co. No. 73,383; Apr. 13; Gaz. vol. 141; p. 563.  
 Engines, Gasoline. White Lily Manufacturing Company. No. 74,302; June 29; Gaz. vol. 143; p. 1341.  
 Engines, Internal-combustion. Armstrong-Quam Manufacturing Company. No. 75,464; Oct. 5; Gaz. vol. 147; p. 232.  
 Engines, road-rollers, and parts of the same. J. I. Case Threshing Machine Company. No. 73,947; June 1; Gaz. vol. 143; p. 254.  
 Engines, windmills, pumps, &c. Brackett, Shaw & Lunt Co. No. 74,918; Aug. 17; Gaz. vol. 145; p. 761.  
 Engravers' plates. Star Engravers Supply Company. No. 73,243; Apr. 6; Gaz. vol. 141; p. 281.  
 Envelops. Union Envelope Co. No. 74,397; July 6; Gaz. vol. 144; p. 273.  
 Enzym for treatment of diabetes, Sugar-converting animal. H. S. Baketel. No. 75,778; Nov. 16; Gaz. vol. 148; p. 827.  
 Erasers, Erasive india-rubber and ink and pencil india-rubber. A. W. Faber. No. 72,360; Jan. 19; Gaz. vol. 138; p. 764.  
 Eugenol and albumen, Combination of. Pearson's Antiseptic Co. No. 74,662; July 27; Gaz. vol. 144; p. 1087.  
 Exercising apparatus. Fred Medart Manufacturing Company. No. 73,640; May 4; Gaz. vol. 142; p. 285.  
 Expectorant. John Wyeth & Brother. No. 73,623; May 4; Gaz. vol. 142; p. 284.  
 Explosives, High. E. I. du Pont de Nemours Powder Company. No. 74,128; June 22; Gaz. vol. 143; p. 1103.  
 Eyeglass and spectacle lenses. Johnston Optical Co. No. 72,103; Jan. 5; Gaz. vol. 138; p. 251.  
 Eyeglass-cases and jewelry-boxes. Farrington Manufacturing Company. No. 74,725; Aug. 3; Gaz. vol. 145; p. 252.  
 Eyeglasses. Julius King Optical Co. No. 73,715; May 11; Gaz. vol. 142; p. 564.  
 Eyeglasses and spectacles. Joseph Friedlander & Bro. No. 75,208; Sept. 14; Gaz. vol. 146; p. 501.  
 Fabrics, Certain textile. J. Hirsch Sons. No. 72,152; Jan. 5; Gaz. vol. 138; p. 253.  
 Fabrics, Certain textile. Arnold Print Works. No. 76,172; Dec. 21; Gaz. vol. 149; p. 830.  
 Fabrics made from waste silk, Woven and knitted. Häberer Gebrüder. No. 73,426; Apr. 20; Gaz. vol. 141; p. 861.  
 Fabrics, Open-mesh, woven, textile. I. E. Palmer Co. No. 73,008; Mar. 9; Gaz. vol. 140; p. 502.  
 Fabrics, Woven and printed. Hibben, Hollweg & Company. No. 74,770; Aug. 10; Gaz. vol. 145; p. 507.  
 Fancy goods, Certain. Naser, Katen & Nahass. No. 75,873; Nov. 23; Gaz. vol. 148; p. 1082.  
 Fancy goods, Certain. Charles E. Bentley Co. No. 76,191; Dec. 28; Gaz. vol. 149; p. 1115.  
 Fancy goods, furnishings, and notions, Certain. M. Goldenberg. No. 74,221; June 29; Gaz. vol. 143; p. 1339.  
 Fanning-mills. J. L. Owens Company. No. 74,286; June 29; Gaz. vol. 143; p. 1341.  
 Fasteners, Snap-. United States Fastener Co. No. 72,888; Mar. 2; Gaz. vol. 140; p. 249.  
 Fasteners, Staple-like metallic. Parker Manufacturing Company. No. 76,155; Dec. 21; Gaz. vol. 149; p. 829.  
 Feathers. Peter Woll & Sons Feather Company. Nos. 74,834-5; Aug. 10; Gaz. vol. 145; p. 509.  
 Feathers, Ostrich-. A. Hochheimer. No. 75,435; Oct. 5; Gaz. vol. 147; p. 231.  
 Feed, Cattle. Great Western Cereal Company. No. 75,745; Nov. 9; Gaz. vol. 148; p. 566.  
 Feed for animals, Ground. C. D. Milleson. No. 73,452; Apr. 20; Gaz. vol. 141; p. 862.  
 Feed, Ground mixed. Cover Supply Co. No. 74,684; Aug. 3; Gaz. vol. 145; p. 251.  
 Feed, Horse, mule, and cattle. United Grocery Company. No. 75,821; Nov. 16; Gaz. vol. 148; p. 829.  
 Feed, Stock. American Hominy Company. No. 75,595; Oct. 26; Gaz. vol. 147; p. 1031.  
 Feed-water heaters and purifiers and feed-water heaters and receivers. Harrison Safety Boiler Works. No. 75,416; Sept. 28; Gaz. vol. 146; p. 955.  
 Feeds, Poultry and pigeon. Edwards & Loomis Co. No. 72,115; Jan. 5; Gaz. vol. 138; p. 252.  
 Felt and building and roofing papers, Roofing and deadening. Weatherproof Manufacturing Company. No. 75,720; Nov. 9; Gaz. vol. 148; p. 565.  
 Felt and paper, Roofing. J. A. & W. Bird & Co. No. 73,611; May 4; Gaz. vol. 142; p. 284.  
 Felt roofing. C. C. Eastlack. Nos. 72,148-9; Jan. 5; Gaz. vol. 138; p. 252.  
 Felt roofing. Barrett Manufacturing Company. No. 74,116; June 22; Gaz. vol. 143; p. 1103.  
 Felt roofing. Barrett Manufacturing Company. No. 75,637; Oct. 26; Gaz. vol. 147; p. 1032.  
 Felt, Roofing-. J. A. & W. Bird & Co. No. 73,612; May 4; Gaz. vol. 142; p. 284.  
 Felt roofing and building and sheathing papers. Paraffine Paint Co. No. 72,496; Jan. 26; Gaz. vol. 138; p. 962.  
 Felt roofing saturated with asphalt. H. W. Johns-Manville Company. No. 75,053; Aug. 31; Gaz. vol. 145; p. 1245.  
 Fertilizers. Federal Chemical Co. No. 72,244; Jan. 12; Gaz. vol. 138; p. 524.  
 Fertilizers. Federal Chemical Co. No. 72,361; Jan. 19; Gaz. vol. 138; p. 764.  
 Fertilizers. Virginia-Carolina Chemical Company. No. 72,596; Feb. 2; Gaz. vol. 139; p. 195.  
 Fertilizers. Purity Fertilizer Co. No. 73,844; May 25; Gaz. vol. 142; p. 1109.  
 Fertilizers. American Agricultural Chemical Company. No. 74,426; July 13; Gaz. vol. 144; p. 557.  
 Fertilizers. Standard Guano and Chemical Manufacturing Company. Nos. 74,745-6; Aug. 3; Gaz. vol. 145; p. 253.  
 Fertilizers. Bash Fertilizer Company. No. 74,878; Aug. 17; Gaz. vol. 145; p. 759.  
 Fertilizers. Virginia-Carolina Chemical Company. No. 75,327; Sept. 21; Gaz. vol. 146; p. 716.  
 Fertilizers. Home Fertilizer & Chemical Company. No. 75,403; Sept. 28; Gaz. vol. 146; p. 954.  
 Fertilizers for cotton-plants. Capital Fertilizer & Manufacturing Company. No. 72,354; Jan. 19; Gaz. vol. 138; p. 764.  
 Fertilizers, Sugar-cane. New Orleans Acid and Fertilizer Company. No. 72,253; Jan. 12; Gaz. vol. 138; p. 524.  
 Fiber-board. Leatheroid Mfg. Co. No. 74,318; July 6; Gaz. vol. 144; p. 271.  
 Fiber of the ixile species. Graham, Hinkley & Co. No. 76,043; Dec. 7; Gaz. vol. 149; p. 306.  
 Figs and dates. Smyrna Fruit Company. No. 73,387; Apr. 13; Gaz. vol. 141; p. 563.  
 Files and gravers. Usines Métallurgiques de Vallorbe. Nos. 74,709-10; Aug. 3; Gaz. vol. 145; p. 252.  
 Filing and card-index cabinets, Sectional. Shaw-Walker Company. No. 75,099; Aug. 31; Gaz. vol. 145; p. 1247.  
 Filing cases, Letter and document. Stephen Greene Co. No. 72,829; Feb. 23; Gaz. vol. 139; p. 986.  
 Filtering material in sheet form, Fibrous. G. Kneuper. No. 73,280; Apr. 6; Gaz. vol. 141; p. 282.  
 Filters and filter mass. Brewers' Special Machinery Co. No. 73,212; Mar. 30; Gaz. vol. 140; p. 1203.  
 Finger-nail-polishing compound. Curioso Dust Company. No. 75,780; Nov. 16; Gaz. vol. 148; p. 827.  
 Finishes, varnishes, fillers, driers, &c. Standard Varnish Works. No. 75,192; Sept. 14; Gaz. vol. 146; p. 501.  
 Fire-crackers. Port Richmond Fireworks Company. No. 75,028; Aug. 24; Gaz. vol. 145; p. 1019.  
 Fire-crackers. G. Sommers & Co. No. 75,643; Oct. 26; Gaz. vol. 147; p. 1032.  
 Fire-extinguishers. T. V. Forster. No. 75,742; Nov. 9; Gaz. vol. 148; p. 566.  
 Fire-extinguishers, Hand. Durafort Company. No. 74,127; June 22; Gaz. vol. 143; p. 1103.



*Alphabetical list of trade-marks—Continued.*

- Fire-extinguishing apparatus. S. F. Hayward & Company. No. 74,932; Aug. 17; Gaz. vol. 145; p. 761.  
 Fire-extinguishing compound, Dry-powder. S. Butz. No. 75,957; Nov. 30; Gaz. vol. 148; p. 1340.  
 Fire-kindler. M. A. Coney. No. 72,764; Feb. 16; Gaz. vol. 139; p. 727.  
 Fireworks, Hand-stick. E. H. Wagner. No. 75,420; Sept. 28; Gaz. vol. 146; p. 955.  
 Fireworks, Small hand-. D. Bachman. No. 74,541; July 20; Gaz. vol. 144; p. 814.  
 Fish. C. Robin Collas Company. Nos. 74,310-11; July 6; Gaz. vol. 144; p. 271.  
 Fish and fish-sake. Sylvanus Smith & Co. No. 74,617; July 27; Gaz. vol. 144; p. 1086.  
 Fish, Cured. Trenberth and Bauder. No. 74,935; Aug. 17; Gaz. vol. 145; p. 761.  
 Fish, Cured boneless. Lane-Libby Fisheries Co. No. 74,231; June 29; Gaz. vol. 143; p. 1339.  
 Fish, Cured boneless. Lane-Libby Fisheries Co. No. 74,233; June 29; Gaz. vol. 143; p. 1339.  
 Fish, Cured, salted, and dried. Swift & Company. No. 73,286; Apr. 6; Gaz. vol. 141; p. 282.  
 Fish, Dried, salt, smoked, and pickled. B. M. Shipman. No. 75,515; Oct. 12; Gaz. vol. 147; p. 513.  
 Fish, Flaked cod-. Alaska Codfish Co. No. 74,752; Aug. 10; Gaz. vol. 145; p. 507.  
 Fish-hook flies. Whitney Sporting Goods Company. No. 72,441; Jan. 26; Gaz. vol. 138; p. 960.  
 Fish-lines. Chaffee Manufacturing Company. No. 76,104; Dec. 14; Gaz. vol. 149; p. 593.  
 Fish, Salted. Sylvanus Smith & Co. Nos. 72,505-6; Jan. 26; Gaz. vol. 138; p. 962.  
 Fish, Salted, smoked, and pickled. Sylvanus Smith & Co. No. 74,703; Aug. 3; Gaz. vol. 145; p. 251.  
 Fishing-bait. W. T. J. Lowe. No. 76,045; Dec. 7; Gaz. vol. 149; p. 306.  
 Fishing-rods. Horton Manufacturing Company. No. 73,218; Mar. 30; Gaz. vol. 140; p. 1204.  
 Fishing-tackle. Clark-Horrocks Co. Nos. 73,255-7; Apr. 6; Gaz. vol. 141; pp. 281-2.  
 Fishing-tackle. Clark-Horrocks Co. No. 73,637; May 4; Gaz. vol. 142; p. 285.  
 Fishing-tackle. A. J. Winters. No. 74,399; July 6; Gaz. vol. 144; p. 273.  
 Fishing-tackle. Abbey & Imbrie. No. 74,632; July 27; Gaz. vol. 144; p. 1086.  
 Fishing-tackle, Certain. H. A. Whittemore. No. 72,096; Jan. 5; Gaz. vol. 138; p. 251.  
 Fishing-trolls and artificial casting-baits. Hartung Bros. & Co. No. 74,174; June 22; Gaz. vol. 143; p. 1104.  
 Flannels. Elder & Johnston Company. No. 72,269; Jan. 12; Gaz. vol. 138; p. 524.  
 Flannels, Canton-. Tootle, Wheeler & Motter Mercantile Company. No. 73,687; May 11; Gaz. vol. 142; p. 563.  
 Flannels, Cotton. Merimack Manufacturing Company. No. 75,417; Sept. 28; Gaz. vol. 146; p. 955.  
 Flannels, Cotton-warp. Hudson River Woolen Mills. No. 73,184; Mar. 23; Gaz. vol. 140; p. 998.  
 Flavoring extract. L. B. Jordan. No. 75,806; Nov. 16; Gaz. vol. 148; p. 828.  
 Flavoring extracts. S. M. Sargeant. No. 72,590; Feb. 2; Gaz. vol. 139; p. 195.  
 Flavoring extracts. J. A. Folger & Company. No. 74,503; July 20; Gaz. vol. 144; p. 813.  
 Flavoring extracts. S. Hamill Company. No. 75,136; Sept. 7; Gaz. vol. 146; p. 251.  
 Flavoring extracts. C. F. Sauer. No. 76,157; Dec. 21; Gaz. vol. 149; p. 829.  
 Flavoring extracts and canned tomatoes. Foster, Calderera & Co. No. 74,609; July 27; Gaz. vol. 144; p. 1085.  
 Flavoring extracts and spices. Buckeye Extract Co. No. 72,446; Jan. 26; Gaz. vol. 138; p. 960.  
 Flavoring extracts, vanilla and lemon flavoring compounds. C. L. Cotton Perfume & Extract Co. No. 72,186; Jan. 5; Gaz. vol. 138; p. 254.  
 Flavoring, Soup-. R. Nosek. No. 75,612; Oct. 26; Gaz. vol. 147; p. 1032.  
 Flavorings. T. H. Grossmith. No. 75,803; Nov. 16; Gaz. vol. 148; p. 828.  
 Flavors for non-alcoholic beverages, Fruit. Parker-Browne Co. No. 72,931; Mar. 2; Gaz. vol. 140; p. 252.  
 Floor-dressing. J. Weingartner. No. 74,215; June 22; Gaz. vol. 143; p. 1106.  
 Floorings, Wood. Robbins Lumber Co. No. 74,024; June 8; Gaz. vol. 143; p. 558.  
 Floss, yarns, or threads of silk, cotton, &c. Charles E. Bentley Co. No. 76,192; Dec. 28; Gaz. vol. 149; p. 1115.  
 Flour and canned fruits and vegetables, Wheat-. Rivkin Bros. No. 72,092; Jan. 5; Gaz. vol. 138; p. 251.  
 Flour and cornmeal, Wheat-. Allen & Wheeler Company. No. 72,780; Feb. 23; Gaz. vol. 139; p. 985.  
 Flour and starch, Potato. Stein-Hirsh & Co. No. 74,957; Aug. 24; Gaz. vol. 145; p. 1017.  
 Flour, Blended wheat. Staples-Hildebrand Supply Co. No. 74,701; Aug. 3; Gaz. vol. 145; p. 251.  
 Flour, bran, and middlings, Wheat. Kehlor Flour Mills Company. No. 75,106; Aug. 31; Gaz. vol. 145; p. 1247.  
 Flour, Corn-. B. Martinez. No. 72,688; Feb. 9; Gaz. vol. 139; p. 459.  
 Flour, Pancake-. B. C. Dunbar. No. 75,272; Sept. 21; Gaz. vol. 146; p. 715.  
 Flour, Rye-. D. Stott. No. 74,958; Aug. 24; Gaz. vol. 145; p. 1017.  
 Flour, Sausage-. B. Levi & Co. No. 75,088; Aug. 31; Gaz. vol. 145; p. 1246.  
 Flour, Wheat. Hart Milling & Power Company. No. 72,090; Jan. 5; Gaz. vol. 138; p. 251.  
 Flour, Wheat. Arms & Kidder. No. 72,113; Jan. 5; Gaz. vol. 138; p. 252.  
 Flour, Wheat. H. C. Cole Milling Company. No. 72,130; Jan. 5; Gaz. vol. 138; p. 252.  
 Flour, Wheat. A. B. McCrillis & Son. No. 72,212; Jan. 12; Gaz. vol. 138; p. 523.  
 Flour, Wheat. Elk Eye Milling Company. No. 72,220; Jan. 12; Gaz. vol. 138; p. 523.  
 Flour, Wheat. E. S. Lee. No. 72,226; Jan. 12; Gaz. vol. 138; p. 523.  
 Flour, Wheat. A. B. McCrillis & Sons. Nos. 72,318-19; Jan. 19; Gaz. vol. 138; p. 763.  
 Flour, Wheat. Steeleville Milling Company. No. 72,500; Jan. 26; Gaz. vol. 138; p. 962.  
 Flour, Wheat. A. B. McCrillis & Son. No. 72,676; Feb. 9; Gaz. vol. 139; p. 459.  
 Flour, Wheat. C. L. Plumb. No. 72,750; Feb. 16; Gaz. vol. 139; p. 726.  
 Flour, Wheat. Philip H. Postel Milling Company. Nos. 72,803-5; Feb. 23; Gaz. vol. 139; p. 985.  
 Flour, Wheat. Washburn Crosby Company. No. 72,916; Mar. 2; Gaz. vol. 140; p. 251.  
 Flour, Wheat. C. L. Plumb. No. 72,932; Mar. 2; Gaz. vol. 140; p. 252.  
 Flour, Wheat. Sáenz & Co. No. 72,967; Mar. 9; Gaz. vol. 140; p. 501.  
 Flour, Wheat. Kehlor Flour Mills Company. No. 73,045; Mar. 9; Gaz. vol. 140; p. 503.  
 Flour, Wheat. Ballard & Ballard Co. No. 73,103; Mar. 16; Gaz. vol. 140; p. 752.  
 Flour, Wheat. Orr Bros. No. 73,112; Mar. 16; Gaz. vol. 140; p. 752.  
 Flour, Wheat. Hawkeye Flour Company. No. 73,279; Apr. 6; Gaz. vol. 141; p. 282.  
 Flour, Wheat. Missouri Valley Milling Company. No. 73,371; Apr. 13; Gaz. vol. 141; p. 562.  
 Flour, Wheat. Western Star Mill Company. No. 73,391; Apr. 13; Gaz. vol. 141; p. 563.  
 Flour, Wheat. A. B. McCrillis & Son. No. 73,392; Apr. 13; Gaz. vol. 141; p. 563.  
 Flour, Wheat. Akin-Erskine Milling Co. No. 73,432; Apr. 20; Gaz. vol. 141; p. 862.  
 Flour, Wheat. Ballard & Ballard Co. No. 73,580; May 4; Gaz. vol. 142; p. 283.  
 Flour, Wheat. John T. Meyer & Sons Milling Co. No. 73,589; May 4; Gaz. vol. 142; p. 283.  
 Flour, Wheat. Philip H. Postel Milling Company. No. 73,682; May 11; Gaz. vol. 142; p. 563.  
 Flour, Wheat. Tacoma Grain Company. No. 73,848; May 25; Gaz. vol. 142; p. 1110.  
 Flour, Wheat. Edwardsville Milling Company. No. 73,861; May 25; Gaz. vol. 142; p. 1110.  
 Flour, Wheat. Bay State Milling Co. No. 73,920; June 1; Gaz. vol. 143; p. 254.  
 Flour, Wheat. Crete Mills. No. 73,992; June 8; Gaz. vol. 143; p. 557.  
 Flour, Wheat. A. B. McCrillis & Son Inc. Nos. 74,033-4; June 15; Gaz. vol. 143; p. 859.  
 Flour, Wheat. Edwardsville Milling Company. No. 74,129; June 22; Gaz. vol. 143; p. 1103.  
 Flour, Wheat. Ballard & Ballard Co. Nos. 74,582-3; July 27; Gaz. vol. 144; p. 1085.  
 Flour, Wheat. Bay State Milling Company. No. 74,601; July 27; Gaz. vol. 144; p. 1085.  
 Flour, Wheat. Wells Flour Milling Company. No. 74,619; July 27; Gaz. vol. 144; p. 1086.  
 Flour, Wheat. Edinger & Company. No. 74,723; Aug. 3; Gaz. vol. 145; p. 252.  
 Flour, Wheat. Lauderbach-Barber Co. No. 74,735; Aug. 3; Gaz. vol. 145; p. 252.  
 Flour, Wheat. Hezel Milling Co. No. 74,769; Aug. 10; Gaz. vol. 145; p. 507.  
 Flour, Wheat. H. Koper & Co. Nos. 74,863-4; Aug. 17; Gaz. vol. 145; p. 759.  
 Flour, Wheat. D. Stott. No. 74,875; Aug. 17; Gaz. vol. 145; p. 759.  
 Flour, Wheat. Edwardsville Milling Company. No. 74,902; Aug. 17; Gaz. vol. 145; p. 760.  
 Flour, Wheat. Maldonado & Co. Nos. 74,971-2; Aug. 24; Gaz. vol. 145; p. 1018.  
 Flour, Wheat. Hardesty-Williams Milling Company. No. 75,080; Aug. 31; Gaz. vol. 145; p. 1246.  
 Flour, Wheat. Listman Mill Company. Nos. 75,124-5; Sept. 7; Gaz. vol. 146; p. 251.  
 Flour, Wheat. Blanton Milling Company. No. 75,182; Sept. 14; Gaz. vol. 146; p. 501.  
 Flour, Wheat. C. W. Bransford. No. 75,200; Sept. 14; Gaz. vol. 146; p. 501.  
 Flour, Wheat. National Milling Company. No. 75,212; Sept. 14; Gaz. vol. 146; p. 502.  
 Flour, Wheat. Roberts, Roop & Company. No. 75,216; Sept. 14; Gaz. vol. 146; p. 502.  
 Flour, Wheat. W. S. Leavitt. No. 75,234; Sept. 14; Gaz. vol. 146; p. 502.  
 Flour, Wheat. M. Alexander. No. 75,389; Sept. 28; Gaz. vol. 146; p. 954.  
 Flour, Wheat. Bozeman Milling Company. No. 75,499; Oct. 12; Gaz. vol. 147; p. 513.

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- Flour, Wheat.-Orville Milling Co. No. 75,513; Oct. 12; Gaz. vol. 147; p. 513.  
 Flour, Wheat.-Edwardsville Milling Company. No. 75,562; Oct. 19; Gaz. vol. 147; p. 767.  
 Flour, Wheat.-Orville Milling Co. No. 75,581; Oct. 19; Gaz. vol. 147; p. 768.  
 Flour, Wheat.-W. M. Galt & Co. No. 75,697; Nov. 2; Gaz. vol. 148; p. 276.  
 Flour, Wheat.-Aberdeen Mill Company. No. 75,794; Nov. 16; Gaz. vol. 148; p. 828.  
 Flour, Wheat.-Mauser Mill Company. No. 75,867; Nov. 23; Gaz. vol. 148; p. 1082.  
 Flour, Wheat.-Edwardsville Milling Company. No. 75,891; Nov. 23; Gaz. vol. 148; p. 1082.  
 Flour, Wheat.-Aberdeen Mill Company. Nos. 75,916-17; Nov. 30; Gaz. vol. 148; p. 1339.  
 Flour, Wheat.-W. F. Brey. No. 75,925; Nov. 30; Gaz. vol. 148; p. 1339.  
 Flour, Wheat.-D. Stott. No. 75,949; Nov. 30; Gaz. vol. 148; p. 1340.  
 Flour, Wheat.-Detroit Milling Company. No. 76,069; Dec. 14; Gaz. vol. 149; p. 597.  
 Flour, Wheat.-Kansas Milling Company. Nos. 76,074-6; Dec. 14; Gaz. vol. 149; p. 597.  
 Flour, Wheat.-National Milling Company. No. 76,079; Dec. 14; Gaz. vol. 149; p. 597.  
 Flour, Wheat.-Haskell, Adams & Co. No. 76,147; Dec. 21; Gaz. vol. 149; p. 829.  
 Flour, Wheat.-Isaac Harter Milling Company. No. 76,150; Dec. 21; Gaz. vol. 149; p. 829.  
 Flour, Wheat.-Osakis Milling Company. No. 76,200; Dec. 28; Gaz. vol. 149; p. 1115.  
 Flour, Wheat.-Wells Flour Milling Company. No. 76,221; Dec. 28; Gaz. vol. 149; p. 1115.  
 Flowers, plants, and floral decorations made of natural flowers. Gude Bros. Co. No. 74,812; Aug. 10; Gaz. vol. 145; p. 508.  
 Flue expanders and cutters. Fernyak Machine Company. No. 74,366; July 6; Gaz. vol. 144; p. 272.  
 Flushing-tanks and water-closet hinged seats. Knott-Van Arman Manufacturing Co. No. 75,315; Sept. 21; Gaz. vol. 146; p. 716.  
 Flux used in casting metals. Foundry Specialty Company. No. 75,249; Sept. 14; Gaz. vol. 146; p. 503.  
 Fly-paper, Sticky. Schmitt & Forderer. No. 75,171; Sept. 7; Gaz. vol. 146; p. 252.  
 Food, Alfalfa and grain dairy and stock. Shawnee Milling Co. No. 75,915; Nov. 23; Gaz. vol. 148; p. 1083.  
 Food, Alfalfa stock. Alabama Corn Mills Co. No. 75,067; Aug. 31; Gaz. vol. 145; p. 1246.  
 Food, Cereal stock. Great Western Feed Company. No. 73,779; May 18; Gaz. vol. 142; p. 852.  
 Food, Certain. Dorch Campbell, Incorporated. No. 75,392; Sept. 28; Gaz. vol. 146; p. 954.  
 Food, Certain named articles of. V. M. Newton. No. 75,127; Sept. 7; Gaz. vol. 146; p. 251.  
 Food-choppers, Rotary. Dana Manufacturing Company. No. 74,980; Aug. 24; Gaz. vol. 145; p. 1018.  
 Food, Dietetic artificial. F. Witte. No. 73,607; May 4; Gaz. vol. 142; p. 284.  
 Food, Dog. W. R. Clarke. No. 73,583; May 4; Gaz. vol. 142; p. 283.  
 Food-flavors, Certain. J. S. Ziegler. No. 72,097; Jan. 5; Gaz. vol. 138; p. 251.  
 Food for cattle. J. Marcus. No. 73,522; Apr. 27; Gaz. vol. 141; p. 1158.  
 Food for dogs. Spillers & Bakers. No. 73,242; Apr. 6; Gaz. vol. 141; p. 281.  
 Food for infants and invalids. Fairchild Bros. & Foster. No. 73,585; May 4; Gaz. vol. 142; p. 283.  
 Food for infants and invalids. Mellin's Food Company of North America. No. 75,279; Sept. 21; Gaz. vol. 146; p. 715.  
 Food for infants and invalids. Mellin's Food Company of North America. No. 75,318-19; Sept. 21; Gaz. vol. 146; p. 716.  
 Food for invalids. W. W. Knight. No. 74,951; Aug. 24; Gaz. vol. 145; p. 1017.  
 Food, Milk. Fairchild Bros. & Foster. No. 75,566; Oct. 19; Gaz. vol. 147; p. 767.  
 Food preparations, Certain. F. A. V. Klopfer. No. 72,585; Feb. 2; Gaz. vol. 139; p. 195.  
 Food preparations, Certain. Strohmeyer & Arpe Company. Nos. 72,594-5; Feb. 2; Gaz. vol. 139; p. 195.  
 Food, Stock. J. E. Bartlett Company. No. 73,621; May 4; Gaz. vol. 142; p. 284.  
 Food, Stock. Gulfport Grocery Co. Nos. 74,590-1; July 27; Gaz. vol. 144; p. 1085.  
 Food, Stock. Gulfport Grocery Co. No. 74,728; Aug. 3; Gaz. vol. 145; p. 232.  
 Food, Stock. Quaker Oats Company. No. 75,059; Aug. 31; Gaz. vol. 145; p. 1246.  
 Food, Stock. Otto Weiss Alfalfa Stock Food Co. No. 75,130; Sept. 7; Gaz. vol. 146; p. 251.  
 Food, Stock. American Hominy Company. No. 75,421; Oct. 5; Gaz. vol. 147; p. 231.  
 Foods, Certain. F. Wedehase. No. 72,509; Jan. 26; Gaz. vol. 138; p. 962.  
 Foods, Certain. Western Grocer Company. No. 72,775; Feb. 16; Gaz. vol. 139; p. 727.  
 Foods, Certain. Strohmeyer & Arpe Company. Nos. 72,939-47; Mar. 2; Gaz. vol. 140; p. 252.  
 Foods, Certain. Strohmeyer & Arpe Company. No. 73,116; Mar. 16; Gaz. vol. 140; p. 752.  
 Foods, Certain. Peek, Frean & Co. No. 73,181; Mar. 23; Gaz. vol. 140; p. 998.  
 Foods, Certain. Pure Food Canning Co. No. 73,222; Mar. 30; Gaz. vol. 140; p. 1204.  
 Foods, Certain. Strohmeyer & Arpe Company. No. 73,224; Mar. 30; Gaz. vol. 140; p. 1204.  
 Foods, Certain. Charles E. Brown & Co. No. 73,252; Apr. 6; Gaz. vol. 141; p. 281.  
 Foods, Certain. Solomon-Wickersham Company. No. 73,283; Apr. 6; Gaz. vol. 141; p. 282.  
 Foods, Certain. Strohmeyer & Arpe Company. No. 73,285; Apr. 6; Gaz. vol. 141; p. 282.  
 Foods, Certain. National Grocer Company. No. 73,372; Apr. 13; Gaz. vol. 141; p. 563.  
 Foods, Certain. Strohmeyer & Arpe Company. Nos. 73,385-6; Apr. 13; Gaz. vol. 141; p. 563.  
 Foods, Certain. Strohmeyer & Arpe Company. No. 73,402; Apr. 13; Gaz. vol. 141; p. 563.  
 Foods, Certain. Strohmeyer & Arpe Company. No. 73,482; Apr. 20; Gaz. vol. 141; p. 863.  
 Foods, Certain. Powell-Sanders Co. Nos. 73,757-8; May 18; Gaz. vol. 142; p. 851.  
 Foods, Certain. J. H. Newbauer & Co. No. 73,864; May 25; Gaz. vol. 142; p. 1110.  
 Foods, Certain. Haas-Lieber Grocery Co. No. 73,923; June 1; Gaz. vol. 143; p. 254.  
 Foods, Certain. R. C. Williams & Co. No. 73,965; June 1; Gaz. vol. 143; p. 255.  
 Foods, Certain. John Blaul's Sons Company. No. 74,014; June 8; Gaz. vol. 143; p. 558.  
 Foods, Certain. McCord-Brady Co. No. 74,020; June 8; Gaz. vol. 143; p. 558.  
 Foods, Certain. Halpen Green & Co. No. 74,042; June 15; Gaz. vol. 143; p. 859.  
 Foods, Certain. Kansas City Wholesale Grocery Co. No. 74,046; June 15; Gaz. vol. 143; p. 859.  
 Foods, Certain. Kothe, Wells & Bauer Company. No. 74,047; June 15; Gaz. vol. 143; p. 859.  
 Foods, Certain. Kansas City Wholesale Grocery Co. No. 74,135; June 22; Gaz. vol. 143; p. 1103.  
 Foods, Certain. John Blaul's Sons Company. No. 74,255; June 29; Gaz. vol. 143; p. 1340.  
 Foods, Certain. F. B. Washburn & Co. No. 74,447; July 13; Gaz. vol. 144; p. 558.  
 Foods, Certain. John Boyle Company. No. 74,456; July 13; Gaz. vol. 144; p. 558.  
 Foods, Certain. Reeves, Parvin & Co. No. 74,483; July 13; Gaz. vol. 144; p. 559.  
 Foods, Certain. Kansas City Wholesale Grocery Co. No. 74,505; July 20; Gaz. vol. 144; p. 813.  
 Foods, Certain. John Morrell & Company. No. 74,557; July 20; Gaz. vol. 144; p. 814.  
 Foods, Certain. Lauderbach-Barber Co. No. 74,593; July 27; Gaz. vol. 144; p. 1085.  
 Foods, Certain. Coronelle Company. No. 74,635; July 27; Gaz. vol. 144; p. 1086.  
 Foods, Certain. Allen & Hanburys Co. No. 74,680; Aug. 3; Gaz. vol. 145; p. 251.  
 Foods, Certain. F. E. Block Co. No. 74,755; Aug. 10; Gaz. vol. 145; p. 507.  
 Foods, Certain. Western Grocer Company. No. 74,844; Aug. 10; Gaz. vol. 145; p. 509.  
 Foods, Certain. California Fruit Cannery Association. No. 75,958; Nov. 30; Gaz. vol. 148; p. 1340.  
 Foods, Certain. Western Grocer Company. No. 75,199; Sept. 14; Gaz. vol. 146; p. 501.  
 Foods, Certain. Haas, Barich & Co. No. 75,228; Sept. 14; Gaz. vol. 146; p. 502.  
 Foods, Certain. Von Bremen, Asche & Co. No. 75,288; Sept. 21; Gaz. vol. 146; p. 715.  
 Foods, Certain. New Orleans Coffee Company. No. 75,406; Sept. 28; Gaz. vol. 146; p. 954.  
 Foods, Certain. C. Holton & Co. No. 75,679; Nov. 2; Gaz. vol. 148; p. 275.  
 Foods, Certain. Ratcliff-Sanders Grocery Company. No. 75,751; Nov. 9; Gaz. vol. 148; p. 566.  
 Foods, Certain. Buffalo Cereal Co. No. 75,796; Nov. 16; Gaz. vol. 148; p. 828.  
 Foods, Certain. Strohmeyer & Arpe Company. No. 75,819; Nov. 16; Gaz. vol. 148; p. 828.  
 Foods, Certain. E. Fleischi & Son. No. 75,901; Nov. 23; Gaz. vol. 148; p. 1083.  
 Foods, Certain. C. E. Brown & Co. No. 75,926; Nov. 30; Gaz. vol. 148; p. 1339.  
 Foods, Certain. National Grocer Company. No. 75,942; Nov. 30; Gaz. vol. 148; p. 1339.  
 Foods, Certain. Griggs, Cooper & Co. No. 75,989; Dec. 7; Gaz. vol. 149; p. 305.  
 Foods, Certain. Uncle Sam's Macaroni Company. No. 76,005; Dec. 7; Gaz. vol. 149; p. 305.  
 Foods, Certain. Austin, Nichols & Co. No. 76,064; Dec. 14; Gaz. vol. 149; p. 597.  
 Foods, Certain. Fred. Eckart Packing Company. No. 76,113; Dec. 14; Gaz. vol. 149; p. 598.  
 Foods, Certain. U. S. Horse Radish Co. No. 76,132; Dec. 14; Gaz. vol. 149; p. 599.  
 Foods, Certain. Western Grocer Company. Nos. 76,161-2; Dec. 21; Gaz. vol. 149; pp. 829-30.  
 Foods, Certain. Squirrel Brand Company. No. 76,187; Dec. 21; Gaz. vol. 149; p. 830.  
 Foods, Certain named. J. T. Polk Company. No. 74,861; Aug. 17; Gaz. vol. 145; p. 759.  
 Foods, Certain named. Western Grocer Company. No. 74,936; Aug. 17; Gaz. vol. 145; p. 761.



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- Foods, Certain saccharine. New Orleans Coffee Company. No. 75,282; Sept. 21; Gaz. vol. 146; p. 715.  
 Foods, Certain saccharine. New Orleans Coffee Company. No. 75,611; Oct. 26; Gaz. vol. 147; p. 1031.  
 Foods containing malt extract and artificially-added nutritive salts. Chemische Fabrik Gebr. Paternmann. No. 74,437; July 13; Gaz. vol. 144; p. 558.  
 Foods for animals, Tonic to be used in stock. R. M. Crocker. No. 75,828; Nov. 16; Gaz. vol. 148; p. 829.  
 Foods, Poultry. Texas Seed & Floral Co. No. 74,166; June 22; Gaz. vol. 143; p. 1104.  
 Foods, Stock. K. Mahoney. No. 74,890; Aug. 10; Gaz. vol. 145; p. 509.  
 Footwear. Williams Shoe Co. No. 73,557; Apr. 27; Gaz. vol. 141; p. 1159.  
 Foundry use, Parting material for. Peerless Parting Company. No. 73,769; May 18; Gaz. vol. 142; p. 851.  
 Freezers. Reid-Edelmuth Manufacturing Co. No. 75,790; Nov. 16; Gaz. vol. 148; p. 828.  
 Fruit-tree paint for repelling insects, animals, and birds. Kersting & Reed. No. 72,195; Jan. 5; Gaz. vol. 138; p. 254.  
 Fruits. North Fork Fruit Growers Association. No. 75,995; Dec. 7; Gaz. vol. 149; p. 305.  
 Fruits and vegetables, Evaporated. E. V. Peirson & Co. No. 73,860; May 25; Gaz. vol. 142; p. 1110.  
 Fruits, Citrus. Azusa-Covina-Glondora Fruit Exchange. Nos. 76,100-1; Dec. 14; Gaz. vol. 149; p. 598.  
 Fruits, Deciduous and citrus. Klein Fruit Co. No. 74,136; June 22; Gaz. vol. 143; p. 1103.  
 Fruits, Dried. W. A. Higgins. No. 74,452; July 13; Gaz. vol. 144; p. 558.  
 Fruits, Evaporated. W. A. Higgins. No. 74,927; Aug. 17; Gaz. vol. 145; p. 761.  
 Fruits, Fresh. Hartlands Company. No. 72,584; Feb. 2; Gaz. vol. 139; p. 195.  
 Fruits, vegetables, and fish. Corby Commission Company. No. 73,846; May 25; Gaz. vol. 142; p. 1110.  
 Fruits, vegetables, lobster, and salmon. Corby Commission Company. No. 73,855; May 25; Gaz. vol. 142; p. 1110.  
 Fur articles. L. D. Baer. No. 74,085; June 15; Gaz. vol. 143; p. 860.  
 Fur articles. Plymouth Fur Co. No. 75,145; Sept. 7; Gaz. vol. 146; p. 252.  
 Fur clothing. Plymouth Fur Co. No. 72,571; Feb. 2; Gaz. vol. 139; p. 194.  
 Fur wearing-apparel. Mischo & Müller. No. 73,016; Mar. 9; Gaz. vol. 140; p. 502.  
 Fur wearing-apparel. L. D. Baer. No. 76,135; Dec. 21; Gaz. vol. 149; p. 829.  
 Furnaces and gas-generators, Oil-spraying apparatus for. American Combustion Company. No. 75,181; Sept. 14; Gaz. vol. 146; p. 501.  
 Furniture and piano polish. A. J. Speurl. No. 73,306; Apr. 6; Gaz. vol. 141; p. 283.  
 Furniture, Certain. Doten-Dunton Desk Co. No. 76,021; Dec. 7; Gaz. vol. 149; p. 306.  
 Furniture-polish. O. Bergeron. No. 75,270; Sept. 21; Gaz. vol. 146; p. 715.  
 Fuse. Ensign-Bickford Company. Nos. 73,676-8; May 11; Gaz. vol. 142; p. 563.  
 Fuse for igniting gunpowder and other explosives. Ensign-Bickford Company. Nos. 74,342-3; July 6; Gaz. vol. 144; p. 272.  
 Fuses, Powder-train. Coast Manufacturing & Supply Co. No. 74,544; July 20; Gaz. vol. 144; p. 814.  
 Gages, pressure-regulators, and water-columns. Lunkenheimer Company. No. 73,721; May 11; Gaz. vol. 142; p. 564.  
 Game. L. H. Sondheim. No. 74,210; June 22; Gaz. vol. 143; p. 1105.  
 Game, Boomerang. A. J. Bartlett. No. 75,465; Oct. 5; Gaz. vol. 147; p. 232.  
 Game, Card. American Game Company. No. 72,918; Mar. 2; Gaz. vol. 140; p. 251.  
 Game, Card. G. G. Fenneberg. No. 73,441; Apr. 20; Gaz. vol. 141; p. 862.  
 Game, Card. L. H. Sondheim. No. 74,211; June 22; Gaz. vol. 143; p. 1106.  
 Game counters and chips. United States Playing Card Co. Nos. 73,052-4; Mar. 9; Gaz. vol. 140; p. 503.  
 Game counters and chips. United States Playing Card Co. Nos. 74,705-8; Aug. 3; Gaz. vol. 145; p. 252.  
 Games, Certain. New Idea Game Company. No. 72,288; Jan. 12; Gaz. vol. 138; p. 525.  
 Garment-fasteners. W. Goldberg. No. 74,857; Aug. 17; Gaz. vol. 145; p. 759.  
 Garment-supporters. W. A. Arledge. No. 73,532; Apr. 27; Gaz. vol. 141; p. 1158.  
 Garment-supporters. Jaeger Automatic Machine Co. No. 73,537; Apr. 27; Gaz. vol. 141; p. 1158.  
 Garment-supporters. J. Fischer. No. 73,975; June 8; Gaz. vol. 143; p. 557.  
 Garment-supporters. C. Platt. No. 75,446; Oct. 5; Gaz. vol. 147; p. 231.  
 Garter, suspender, and belt webs. Leolastic. No. 72,539; Feb. 2; Gaz. vol. 139; p. 193.  
 Garter, suspender, and belt webs, elastic and non-elastic, braided or woven. Moore Web Co. No. 75,750; Nov. 9; Gaz. vol. 148; p. 566.  
 Garters. A. Stein & Company. No. 74,784; Aug. 10; Gaz. vol. 145; p. 508.  
 Garters. A. Stein & Company. No. 75,265; Sept. 14; Gaz. vol. 146; p. 503.  
 Gas generators and storage-tanks, Acetylene. Monarch Acetylene Company. No. 72,156; Jan. 5; Gaz. vol. 138; p. 253.  
 Gas mantles, burners, lamps, and parts thereof, Incandescent. Block Light Co. No. 74,218; June 29; Gaz. vol. 143; p. 1339.  
 Gas-mantles, Incandescent. Block Light Company. No. 73,793; May 18; Gaz. vol. 142; p. 852.  
 Gas-manufacturing apparatus. W. Key. No. 75,165; Sept. 7; Gaz. vol. 146; p. 252.  
 Gas-producers. Gas Power Company. No. 74,372; July 6; Gaz. vol. 144; p. 273.  
 Gelatin. Imperial M'fg. Co. No. 75,508; Oct. 12; Gaz. vol. 147; p. 513.  
 Gelatin. Cox Gelatine Company. No. 75,693; Nov. 2; Gaz. vol. 148; p. 276.  
 Generators, Acetylene-gas. St. Clair Manufacturing Company. No. 73,143; Mar. 16; Gaz. vol. 140; p. 753.  
 Germicide, disinfectant, and deodorant. Fuller Manufacturing Company. No. 75,048; Aug. 31; Gaz. vol. 145; p. 1245.  
 Germicide or disinfecting composition. Parker Chemical Company. No. 74,294; June 29; Gaz. vol. 143; p. 1341.  
 Gin. J. & J. Eager Co. No. 73,713; May 11; Gaz. vol. 142; p. 564.  
 Gin, Holland. De Fremery & Co. No. 74,999; Aug. 24; Gaz. vol. 145; p. 1018.  
 Gin, Straight. R. Luhrs. No. 72,227; Jan. 12; Gaz. vol. 138; p. 523.  
 Gin, Tom. Charles Jacquin et Cie. No. 72,144; Jan. 5; Gaz. vol. 138; p. 252.  
 Ginger-gin, a remedy for diseases of the bladder and kidneys. Pond's Bitters Co. No. 74,418; July 13; Gaz. vol. 144; p. 557.  
 Gingham. Amoskeag Manufacturing Company. No. 72,859; Mar. 2; Gaz. vol. 140; p. 249.  
 Gingham. Tootle Wheeler & Motter Mer. Co. No. 73,909; June 1; Gaz. vol. 143; p. 253.  
 Gingham, Zephyr. Tootle Wheeler & Motter Mer. Co. No. 73,072; Mar. 16; Gaz. vol. 140; p. 751.  
 Glass. New York Structural Glass Co. No. 72,661; Feb. 9; Gaz. vol. 139; p. 458.  
 Glass and hollow glassware for illuminating purposes, Crude and plate. K. Stockhausen. No. 75,793; Nov. 16; Gaz. vol. 148; p. 828.  
 Glass articles, Certain. Gill Brothers Company. No. 74,810; Aug. 10; Gaz. vol. 145; p. 508.  
 Glass bottles. L. A. Becker Company. No. 74,018; June 8; Gaz. vol. 143; p. 558.  
 Glass cans and jars. Schram Automatic Sealer Company. No. 75,418; Sept. 28; Gaz. vol. 146; p. 955.  
 Glass cleaning and polishing preparation. Hall, Bayliss & Co. No. 73,293; Apr. 6; Gaz. vol. 141; p. 283.  
 Glass shades and globes. Phoenix Glass Company. No. 73,035; Mar. 9; Gaz. vol. 140; p. 503.  
 Glassware, Certain. Gill Brothers Company. No. 74,550; July 20; Gaz. vol. 144; p. 814.  
 Glassware, Pressed. A. H. Heisey & Co. No. 75,897; Nov. 23; Gaz. vol. 148; p. 1082.  
 Gloves and gauntlets, Leather. Gloversville Auto Glove Co. No. 73,550; Apr. 27; Gaz. vol. 141; p. 1159.  
 Gloves and leather shoes, Kid. Simpson Crawford Co. No. 76,001; Dec. 7; Gaz. vol. 149; p. 305.  
 Gloves and mittens. Hutchens & Potter. No. 75,604; Oct. 26; Gaz. vol. 147; p. 1031.  
 Gloves and mittens, Leather. Gordon & Ferguson. No. 72,278; Jan. 12; Gaz. vol. 138; p. 525.  
 Gloves and mittens, Leather. Milwaukee Glove Co. No. 76,153; Dec. 21; Gaz. vol. 149; p. 829.  
 Gloves, Cloth. G. L. Wolf. No. 72,737; Feb. 16; Gaz. vol. 139; p. 726.  
 Gloves, Cloth, leather, and silk. Bachner-Moses Co. No. 72,996; Mar. 9; Gaz. vol. 140; p. 502.  
 Gloves, Leather. O. C. Hansen Manufacturing Co. No. 72,132; Jan. 5; Gaz. vol. 138; p. 252.  
 Gloves, Leather. I. Oliver. No. 72,166; Jan. 5; Gaz. vol. 138; p. 253.  
 Gloves, Leather. Marshall Field & Co. No. 72,557; Feb. 2; Gaz. vol. 139; p. 194.  
 Gloves, Leather. Strawbridge & Clothier. No. 72,731; Feb. 16; Gaz. vol. 139; p. 726.  
 Gloves, Leather. Topken Company. Nos. 72,886-7; Mar. 2; Gaz. vol. 140; p. 249.  
 Gloves, Leather. Henry W. Price Co. No. 73,086; Mar. 16; Gaz. vol. 140; p. 752.  
 Gloves, Leather. California Glove Company. No. 73,488; Apr. 27; Gaz. vol. 141; p. 1157.  
 Gloves, Leather. Tréfousse & Cie. Nos. 73,493-502; Apr. 27; Gaz. vol. 141; p. 1157.  
 Gloves, Leather. Tréfousse & Cie. No. 73,667; May 11; Gaz. vol. 142; p. 563.  
 Gloves, Leather. H. W. Price Co. No. 74,068; June 15; Gaz. vol. 143; p. 860.  
 Gloves, Leather. M. I. Downing. No. 74,220; June 29; Gaz. vol. 143; p. 1339.  
 Gloves, Leather. Steinberger & Kalisher. No. 74,354; July 6; Gaz. vol. 144; p. 272.  
 Gloves, Leather. V. Perrin & Cie. Nos. 74,670-1; July 27; Gaz. vol. 144; p. 1087.  
 Gloves, Leather. Strawbridge & Clothier. No. 75,547; Oct. 12; Gaz. vol. 147; p. 514.  
 Gloves, Leather. J. Adler & Co. No. 75,833; Nov. 23; Gaz. vol. 148; p. 1081.  
 Gloves, Leather and silk. Carson Pirie Scott & Co. No. 72,997; Mar. 9; Gaz. vol. 140; p. 502.  
 Gloves, Silk. Niagara Silk Mills. Nos. 72,562-3; Feb. 2; Gaz. vol. 139; p. 194.

*Alphabetical list of trade-marks—Continued.*

- Gloves, Woven tip fabric and silk. Carson, Pirie, Scott & Co. No. 74,435; July 13; Gaz. vol. 144; p. 558.
- Glucose, Corn-. Clinton Sugar Refining Company. No. 74,121; June 22; Gaz. vol. 143; p. 1103.
- Glue and adhesive cements. Quality Cement Company. No. 74,101; June 15; Gaz. vol. 143; p. 861.
- Glue, mucilage, and adhesive paste, Liquid. Russia Cement Company. Nos. 72,172-3; Jan. 5; Gaz. vol. 138; p. 253.
- Glues, pastes, and sizing. J. A. & W. Bird & Co. No. 73,122; Mar. 16; Gaz. vol. 140; p. 752.
- Go-carts, baby-carriages, and parts thereof. Bay State Metal Wheel Co. No. 75,294; Sept. 21; Gaz. vol. 146; p. 715.
- Goods, Certain. Allen & Hanburys Co. No. 74,307; July 6; Gaz. vol. 144; p. 271.
- Granite, Quarried. Woodbury Granite Company. No. 73,656; May 4; Gaz. vol. 142; p. 285.
- Grape-fruit and oranges. Terra-Ceja Estates, Incorporated. No. 73,458; Apr. 20; Gaz. vol. 141; p. 862.
- Grape-juice. Calwa Products Co. No. 73,359; Apr. 13; Gaz. vol. 141; p. 562.
- Grape-juice, Unfermented. Randall Grape Juice Co. No. 73,050; Mar. 9; Gaz. vol. 140; p. 503.
- Grape-juice, Unfermented. Italian Swiss Colony. No. 74,455; July 13; Gaz. vol. 144; p. 558.
- Grape-juice, Unfermented. Lodi Fruit Products Co. No. 74,468; July 13; Gaz. vol. 144; p. 559.
- Grape-juice, Unfermented. Irondequoit Fruit Juice Co. No. 74,555; July 20; Gaz. vol. 144; p. 814.
- Grape-juice, Unfermented. California Vineyards and Improvement Company. No. 74,919; Aug. 17; Gaz. vol. 145; p. 761.
- Grape-juice, Unfermented. Lawton Fruit Juice Co. No. 75,190; Sept. 14; Gaz. vol. 146; p. 501.
- Grape-sugar and corn-sugar. Corn Products Refining Company. No. 72,187; Jan. 5; Gaz. vol. 138; p. 254.
- Grease and lubricating-oils, Axle-. Waterloo Chemical Works. No. 74,107; June 15; Gaz. vol. 143; p. 861.
- Grease, Lubricating-. Phila. Grease Mfg. Co. No. 75,970; Nov. 30; Gaz. vol. 148; p. 1340.
- Greases, Lubricating-. Warren Lubricant Company. No. 73,203; Mar. 30; Gaz. vol. 140; p. 1203.
- Greases, Lubricating-. Columbia Refining Company. No. 75,680; Nov. 2; Gaz. vol. 148; p. 275.
- Greases, Lubricating-. Penna. Lubricating Co. No. 75,686; Nov. 2; Gaz. vol. 148; p. 276.
- Grinding and polishing materials. Dronsheld Brothers. No. 74,901; Aug. 17; Gaz. vol. 145; p. 760.
- Grinding-machines. Pike Manufacturing Company. No. 75,877; Nov. 23; Gaz. vol. 148; p. 1082.
- Grinding-mills. O. Simpson. No. 75,650; Oct. 26; Gaz. vol. 147; p. 1032.
- Guano. Liebig's Extract of Meat Company. No. 74,736; Aug. 3; Gaz. vol. 145; p. 252.
- Gum, Chewing-. V. E. Fernier. Nos. 72,116-17; Jan. 5; Gaz. vol. 138; p. 252.
- Gum, Chewing-. R. L. Johnstone. No. 75,275; Sept. 21; Gaz. vol. 146; p. 715.
- Gum-pastes. W. H. Doble. No. 73,777; May 18; Gaz. vol. 142; p. 852.
- Gum, Pepsin chewing-. Walla Walla Gum Co. No. 72,692; Feb. 9; Gaz. vol. 139; p. 459.
- Gum, Refined. Rogers, Holloway & Co. No. 73,342; Apr. 13; Gaz. vol. 141; p. 562.
- Gums, Chewing-. Canadian Chicle Company. No. 75,738; Nov. 9; Gaz. vol. 148; p. 565.
- Guns, Devices for lessening the noise of discharge of. Maxim Silent Firearms Company. No. 74,637; July 27; Gaz. vol. 144; p. 1086.
- Gutta-percha tissues. R. Soltau & Co. No. 75,338; Sept. 21; Gaz. vol. 146; p. 717.
- Hair and scalp, Preparation for the treatment of the. E. Blackstock. No. 72,701; Feb. 16; Gaz. vol. 139; p. 725.
- Hair and scalp preparations. Mrs. Nettie Harrison Co. No. 74,502; July 20; Gaz. vol. 144; p. 815.
- Hair and scalp tonic. Young & Bokemyer. No. 73,845; May 25; Gaz. vol. 142; p. 1110.
- Hair and scalp tonic and stimulant. E. Levy. No. 74,320; July 6; Gaz. vol. 144; p. 271.
- Hair dressing and tonic. J. Sénégas. No. 75,672; Nov. 2; Gaz. vol. 148; p. 275.
- Hair-dye. C. W. Blackburn. No. 75,837; Nov. 23; Gaz. vol. 148; p. 1081.
- Hair, Human and animal. Poe Manufacturing Company. No. 75,647; Oct. 26; Gaz. vol. 147; p. 1032.
- Hair, Manufactured goat-. L. Levussove. No. 75,809; Nov. 16; Gaz. vol. 148; p. 828.
- Hair-nets. Poirier & Lindeman. No. 74,596; July 27; Gaz. vol. 144; p. 1085.
- Hair ornaments, combs, and the like. Pacific Novelty Company. No. 74,956; Aug. 24; Gaz. vol. 145; p. 1017.
- Hair-pins and combs. Fitchburg Pin Co. No. 76,193; Dec. 28; Gaz. vol. 149; p. 1115.
- Hair-pins and combs. Pacific Novelty Company. No. 76,195; Dec. 28; Gaz. vol. 149; p. 1115.
- Hair-pins, barrettes, combs, and hair-retainers. Rice & Hochster. No. 75,134; Sept. 7; Gaz. vol. 146; p. 251.
- Hair-pins, barrettes, combs, and hair-retainers. Certain. Rice & Hochster. No. 72,473; Jan. 26; Gaz. vol. 138; p. 961.
- Hair-pins, combs, barrettes, bandeaux, and hair ornaments. Newark Tortoise Shell Novelty Co. No. 73,375; Apr. 13; Gaz. vol. 141; p. 563.
- Hair-pins, hooks and eyes, and nursery-pins. William H. Cole & Co. No. 72,643; Feb. 9; Gaz. vol. 139; p. 455.
- Hair, Preparation for removing. H. C. Bernner. No. 75,070; Aug. 31; Gaz. vol. 145; p. 1246.
- Hair, Preparation for treatment of. J. Röder. No. 74,329; July 6; Gaz. vol. 144; p. 271.
- Hair-rolls. Sanitary Hair Goods Co. No. 75,060; Aug. 31; Gaz. vol. 145; p. 1246.
- Hair-shampoo. Wilson Company. No. 74,168; June 22; Gaz. vol. 143; p. 1104.
- Hair-tonic. G. F. Gehring. No. 72,190; Jan. 5; Gaz. vol. 138; p. 254.
- Hair-tonic. Davis Chemical Company. No. 72,704; Feb. 16; Gaz. vol. 139; p. 725.
- Hair-tonic. A. L. Worthing. No. 72,992; Mar. 9; Gaz. vol. 140; p. 502.
- Hair-tonic. C. D. Griffin. No. 73,065; Mar. 16; Gaz. vol. 140; p. 751.
- Hair-tonic. J. Colton. No. 73,754; May 18; Gaz. vol. 142; p. 851.
- Hair-tonic. Wyeth Chemical Co. No. 74,303; June 29; Gaz. vol. 143; p. 1341.
- Hair-tonic. O. W. Tanke. No. 74,573; July 20; Gaz. vol. 144; p. 815.
- Hair-tonic. P. J. Schneider. No. 75,628; Oct. 26; Gaz. vol. 147; p. 1032.
- Hair-tonic. Niagara Chemical Company. No. 76,256; Dec. 28; Gaz. vol. 149; p. 1117.
- Hair-tonic, &c. E. D. Sawkins. No. 73,831; May 25; Gaz. vol. 142; p. 1109.
- Hair-tonic and liniment. Crude Oil Products Company. No. 74,853; Aug. 17; Gaz. vol. 145; p. 759.
- Hair-tonic and shampoo. H. O. Theobald. No. 74,575; July 20; Gaz. vol. 144; p. 815.
- Hair-tonic and shampoo preparation. Marietta Stanley Company. No. 74,659; July 27; Gaz. vol. 144; p. 1087.
- Hair-tonic powders. Robert Low's Son & Howard. No. 73,341; Apr. 13; Gaz. vol. 141; p. 562.
- Hair-tonics. N. A. Anderson. No. 75,422; Oct. 5; Gaz. vol. 147; p. 231.
- Hair-tonics and ointments. I. B. Clagett. No. 75,038; Aug. 31; Gaz. vol. 145; p. 1245.
- Hair-wavers, Ladies'. Strate-Fold Manufacturing Co. No. 72,752; Feb. 16; Gaz. vol. 139; p. 726.
- Hame-fasteners. G. G. Greene. No. 75,001; Aug. 24; Gaz. vol. 145; p. 1018.
- Hams. John Morrell & Company. No. 73,998; June 8; Gaz. vol. 143; p. 558.
- Hams, bacon, and dried beef. W. Moland's Sons. No. 76,199; Dec. 28; Gaz. vol. 149; p. 1115.
- Hams, bacon, and sausages. John P. Squire & Company. No. 73,178; Mar. 23; Gaz. vol. 140; p. 998.
- Hams, bacon, sausage, and lard. Brittain & Company. No. 74,039; June 15; Gaz. vol. 143; p. 859.
- Hams, bacon, shoulders, picnics, and lard. John Morrell & Company. No. 75,230; Sept. 14; Gaz. vol. 146; p. 502.
- Hams, Boiled. John Morrell & Company. No. 73,997; June 8; Gaz. vol. 143; p. 558.
- Hams, breakfast-bacon, and picnics. John Morrell & Company. No. 73,996; June 8; Gaz. vol. 143; p. 558.
- Hams, dried beef, picnics, &c. John Morrell & Company. No. 75,348; Sept. 21; Gaz. vol. 146; p. 717.
- Hams, lard, and bacon. Sullivan Packing Company. No. 75,383; Sept. 28; Gaz. vol. 146; p. 954.
- Handkerchiefs. E. E. Poor. No. 72,498; Jan. 26; Gaz. vol. 138; p. 962.
- Handkerchiefs. E. E. Poor. No. 72,697; Feb. 9; Gaz. vol. 139; p. 459.
- Handkerchiefs. Cochrane Manufacturing Company. No. 73,794; May 18; Gaz. vol. 142; p. 852.
- Handkerchiefs. Heller & Long. No. 74,688; Aug. 3; Gaz. vol. 145; p. 251.
- Handkerchiefs, Cotton and linen. Ben Strauss Company. No. 73,317; Apr. 13; Gaz. vol. 141; p. 561.
- Handkerchiefs not in the piece. Dawson, Halliwell & Co. No. 72,450; Jan. 26; Gaz. vol. 138; p. 960.
- Hardware, Certain. Stanley Works. No. 72,626; Jan. 12; Gaz. vol. 138; p. 524.
- Hardware, Certain named. Porter Metal Manufacturing Company. No. 74,914; Aug. 17; Gaz. vol. 145; p. 760.
- Hardware, Saddlers' and harness-makers'. North & Judd Manufacturing Company. No. 75,336; Sept. 21; Gaz. vol. 146; p. 717.
- Harness and saddlery, Certain. Duncan & Sons. No. 73,217; Mar. 30; Gaz. vol. 140; p. 1204.
- Harness-dressing. New Life Manufacturing Company. No. 73,281; Apr. 6; Gaz. vol. 141; p. 282.
- Harness-dressing. Charles E. Self. No. 73,303; Apr. 6; Gaz. vol. 141; p. 283.
- Harness for horses. Page Belting Company. No. 73,554; Apr. 27; Gaz. vol. 141; p. 1159.
- Harness parts, Certain. Enterprise Manufacturing Company. No. 72,243; Jan. 12; Gaz. vol. 138; p. 524.
- Harness parts, Certain. Eberhard Manufacturing Company. No. 74,445; July 13; Gaz. vol. 144; p. 558.
- Harvester and mower divider-bars. Martin & Seiwel. No. 74,111; June 15; Gaz. vol. 143; p. 861.
- Hatchets, Lath-. J. T. Underhill. No. 75,173; Sept. 7; Gaz. vol. 146; p. 253.
- Hats. Corl, Knott & Co. No. 72,703; Feb. 16; Gaz. vol. 139; p. 725.
- Hats. William Doerffinger Company. No. 74,896; Aug. 17; Gaz. vol. 145; p. 760.
- Hats. Metropolitan Hat Company. No. 75,510; Oct. 12; Gaz. vol. 147; p. 513.
- Hats and bonnets. G. Warner. No. 74,027; June 8; Gaz. vol. 143; p. 558.



*Alphabetical list of trade-marks—Continued.*

- Hats and caps. M. H. Witz. Nos. 72,644-5; Feb. 9; Gaz. vol. 139; p. 458.  
Hats and caps. J. Galvin. No. 73,841; May 25; Gaz. vol. 142; p. 1109.  
Hats and caps. Shapiro and Levy Cap Company. No. 75,382; Sept. 28; Gaz. vol. 146; p. 954.  
Hats and caps. Francis Company. No. 75,988; Dec. 7; Gaz. vol. 149; p. 305.  
Hats and caps and straw hats, felt and cloth. J. Moores & Sons. No. 72,428; Jan. 26; Gaz. vol. 138; p. 960.  
Hats and caps of cloth, wool, felt, fur, and straw. Sarnoff Bros. No. 72,811; Feb. 23; Gaz. vol. 139; p. 986.  
Hats and hat-frames, Ladies'. John Miles, Incorporated. No. 73,206; Mar. 30; Gaz. vol. 140; p. 1203.  
Hats and leather gloves. Williamson & Dickie. No. 74,788; Aug. 10; Gaz. vol. 145; p. 508.  
Hats, Ladies' and children's. Levis Zukoski Mercantile Company. No. 74,267; June 29; Gaz. vol. 143; p. 1340.  
Hats, Ladies'. Robinson-Straus & Co. No. 74,893; Aug. 17; Gaz. vol. 145; p. 760.  
Hats, Men's. G. B. Borsalino fu Lazzare & Co. Nos. 75,763-5; Nov. 16; Gaz. vol. 148; p. 827.  
Hats or hat-protectors, Rain-. A. W. Powell. No. 75,377; Sept. 28; Gaz. vol. 146; p. 953.  
Hats, Trimmed. Samuel Haas Trimmed Hat Company. No. 74,639; July 27; Gaz. vol. 144; p. 1086.  
Headlights. Badger Brass Manufacturing Co. Nos. 73,918-19; June 1; Gaz. vol. 143; p. 254.  
Heaters, Electric. G. X. Wendling. No. 72,111; Jan. 5; Gaz. vol. 138; p. 251.  
Heaters, Fireplace-. James Spear Stove and Heating Company. No. 75,018; Aug. 24; Gaz. vol. 145; p. 1019.  
Heating and cooking appliances and steam-boilers. Barstow Stove Company. No. 75,010; Aug. 24; Gaz. vol. 145; p. 1019.  
Heating and lighting apparatus, Certain. Ehrlich & Graetz. No. 75,660; Nov. 2; Gaz. vol. 148; p. 275.  
Heating apparatus. Richardson & Boynton Co. No. 74,838; Aug. 10; Gaz. vol. 145; p. 509.  
Heating apparatus and separators, Certain. Harrison Safety Boiler Works. No. 73,780; May 18; Gaz. vol. 142; p. 852.  
Heating apparatus, Certain. H. Wetter Manufacturing Co. No. 74,729; Aug. 3; Gaz. vol. 145; p. 252.  
Heating apparatus, Certain. Taplin, Rice-Clerkin Company. No. 76,048; Dec. 7; Gaz. vol. 149; p. 307.  
Heel-plates for boots and shoes. L. Sacks. No. 75,324; Sept. 21; Gaz. vol. 146; p. 716.  
Heels, bathing-caps, and rain-coats, Rubber. Atlantic Rubber Company. No. 73,273; Apr. 6; Gaz. vol. 141; p. 282.  
Hemostatic, astringent, and cardiac stimulants. Frederick Stearns & Co. No. 74,806; Aug. 10; Gaz. vol. 145; p. 508.  
Hepatic stimulant, laxative, and diuretic. W. R. Warner & Co. No. 75,492; Oct. 5; Gaz. vol. 147; p. 233.  
Herb preparation. L. W. Estes. No. 72,840; Mar. 2; Gaz. vol. 140; p. 249.  
Herrings, sardines, anchovies, cod-roe, and fish-balls. Concord Canning Co. No. 75,155; Sept. 7; Gaz. vol. 146; p. 252.  
Hinges. Chicago Spring Butt Company. Nos. 72,395-6; Jan. 26; Gaz. vol. 138; p. 959.  
Hominy-grits, cornmeal and cream-meal. American Hominy Company. No. 74,599; July 27; Gaz. vol. 144; p. 1085.  
Hominy-grits, cornmeal, hominy, and corn-flake. American Hominy Company. No. 73,171; Mar. 23; Gaz. vol. 140; p. 997.  
Honey. Frisbee Honey Co. No. 74,041; June 15; Gaz. vol. 143; p. 859.  
Hooks and eyes. American Pin Co. Nos. 73,146-7; Mar. 23; Gaz. vol. 140; p. 997.  
Hooks and eyes. National Hook and Eye Company. No. 74,100; June 15; Gaz. vol. 143; p. 861.  
Horse-blankets. Beckman Company. Nos. 73,542-5; Apr. 27; Gaz. vol. 141; p. 1158.  
Horse-clothing. Des Moines Saddlery Co. No. 72,548; Feb. 2; Gaz. vol. 139; p. 194.  
Horse-powers, pumping-jacks, and windmills, and parts thereof. San Antonio Machine Supply Co. No. 74,154; June 22; Gaz. vol. 143; p. 1104.  
Horseshoes. Fiber Horseshoe Company. No. 75,662; Nov. 2; Gaz. vol. 148; p. 275.  
Hose. Peerless Rubber Manufacturing Company. No. 72,665; Feb. 9; Gaz. vol. 139; p. 459.  
Hose. Mechanical Rubber Company. No. 73,015; Mar. 9; Gaz. vol. 140; p. 502.  
Hose. New York Belting and Packing Company. Nos. 73,023-32; Mar. 9; Gaz. vol. 140; p. 503.  
Hose. New York Belting and Packing Company. No. 73,165; Mar. 23; Gaz. vol. 140; p. 997.  
Hose. Mechanical Rubber Company. No. 73,220; Mar. 30; Gaz. vol. 140; p. 1204.  
Hose and machinery belting, Certain garden-. New Jersey Car Spring & Rubber Co. No. 72,162; Jan. 5; Gaz. vol. 138; p. 253.  
Hose and machinery belting, Certain hydraulic. New Jersey Car Spring & Rubber Co. No. 72,164; Jan. 5; Gaz. vol. 138; p. 253.  
Hose and machinery packing. Peerless Rubber Manufacturing Company. No. 72,568; Feb. 2; Gaz. vol. 139; p. 194.  
Hose and machinery packing. B. F. Goodrich Company. No. 73,407; Apr. 20; Gaz. vol. 141; p. 861.  
Hose and machinery packing composed of rubber or rubber and fabric. Peerless Rubber Manufacturing Company. No. 72,471; Jan. 26; Gaz. vol. 138; p. 961.  
Hose and packing. Peerless Rubber Manufacturing Company. No. 72,569; Feb. 2; Gaz. vol. 139; p. 194.  
Hose composed of rubber or rubber and fabric. Peerless Rubber Manufacturing Company. No. 72,497; Jan. 26; Gaz. vol. 138; p. 962.  
Hose composed of rubber or rubber and fabric. New York Belting and Packing Company. No. 75,257; Sept. 14; Gaz. vol. 146; p. 503.  
Hose, Fire-. Gutta Percha & Rubber Manufacturing Company. No. 72,535; Feb. 2; Gaz. vol. 139; p. 193.  
Hose, Garden-. Hibbard, Spencer, Bartlett & Co. No. 73,044; Mar. 9; Gaz. vol. 140; p. 503.  
Hose, Linen. Charles Niedner's Sons Co. No. 74,525; July 20; Gaz. vol. 144; p. 813.  
Hose made of a combination of rubber and fabric, Garden-. Hibbard, Spencer, Bartlett & Company. No. 72,684; Feb. 9; Gaz. vol. 139; p. 459.  
Hose made wholly or partly of rubber or having rubber incorporated therewith. B. F. Goodrich Company. No. 73,406; Apr. 20; Gaz. vol. 141; p. 861.  
Hose, Rubber. Peerless Rubber Manufacturing Company. No. 72,587; Feb. 2; Gaz. vol. 139; p. 195.  
Hose, Rubber. Peerless Rubber Manufacturing Company. Nos. 72,663-4; Feb. 9; Gaz. vol. 139; pp. 458-9.  
Hose, Rubber. Peerless Rubber Manufacturing Company. Nos. 72,666-7; Feb. 9; Gaz. vol. 139; p. 459.  
Hose, Rubber or rubber and fabric. New York Belting and Packing Company. No. 72,561; Feb. 2; Gaz. vol. 139; p. 194.  
Hose-supporters. Carson Pirie Scott & Co. No. 72,745; Feb. 16; Gaz. vol. 139; p. 726.  
Hose-supporters. T. P. Taylor. No. 73,417; Apr. 20; Gaz. vol. 141; p. 861.  
Hose-supporters. Carson, Pirie, Scott & Co. No. 73,613; May 4; Gaz. vol. 142; p. 284.  
Hose-supporters. M. W. Schloss. No. 73,629; May 4; Gaz. vol. 142; p. 284.  
Hosiery. A. B. Andrews Company. No. 72,125; Jan. 5; Gaz. vol. 138; p. 252.  
Hosiery. Elk Knitting Mills Company. No. 72,129; Jan. 5; Gaz. vol. 138; p. 252.  
Hosiery. O. E. H. Huschke. No. 72,280; Jan. 12; Gaz. vol. 138; p. 525.  
Hosiery. Davis Hosiery Mills. No. 72,705; Feb. 16; Gaz. vol. 139; p. 725.  
Hosiery. I. Mossop & Co. No. 72,876; Mar. 2; Gaz. vol. 140; p. 249.  
Hosiery. Joel Baily Davis Co. No. 73,087; Mar. 16; Gaz. vol. 140; p. 752.  
Hosiery. Steele & Caruthers. No. 73,090; Mar. 16; Gaz. vol. 140; p. 752.  
Hosiery. A. B. Andrews Company. No. 73,265; Apr. 6; Gaz. vol. 141; p. 282.  
Hosiery. Milander-Newman Company. No. 73,597; May 4; Gaz. vol. 142; p. 283.  
Hosiery. E. M. Townsend & Co. Nos. 73,665-6; May 11; Gaz. vol. 142; p. 563.  
Hosiery. Cooper, Wells & Co. No. 73,833; May 25; Gaz. vol. 142; p. 1109.  
Hosiery. A. B. Andrews Company. No. 74,082; June 15; Gaz. vol. 143; p. 860.  
Hosiery. Milwaukee Hosiery Company. No. 74,235; June 29; Gaz. vol. 143; p. 1339.  
Hosiery. E. M. Townsend & Co. No. 74,396; July 6; Gaz. vol. 144; p. 273.  
Hosiery. Wm. B. Threapleton's Sons. No. 74,489; July 13; Gaz. vol. 144; p. 559.  
Hosiery. Burd Knitting Mills Co. No. 74,682; Aug. 3; Gaz. vol. 145; p. 251.  
Hosiery. National Hosiery & Yarn Co. No. 74,888; Aug. 17; Gaz. vol. 145; p. 760.  
Hosiery. A. B. Andrews Company. No. 75,148; Sept. 7; Gaz. vol. 146; p. 252.  
Hosiery. S. S. Miller. No. 75,256; Sept. 14; Gaz. vol. 146; p. 503.  
Hosiery. Ely & Walker Dry Goods Co. No. 75,273; Sept. 21; Gaz. vol. 146; p. 715.  
Hosiery. B. J. Harder. No. 75,507; Oct. 12; Gaz. vol. 147; p. 513.  
Hosiery. Simons & Struve Hosiery Co. No. 75,516; Oct. 12; Gaz. vol. 147; p. 513.  
Hosiery. E. M. Townsend & Co. No. 75,520; Oct. 12; Gaz. vol. 147; p. 513.  
Hosiery. E. M. Townsend & Co. Nos. 75,588-9; Oct. 19; Gaz. vol. 147; p. 768.  
Hosiery. W. Alsberg. No. 75,676; Nov. 2; Gaz. vol. 148; p. 275.  
Hosiery. Richmond Hosiery Mills. Nos. 75,730-2; Nov. 9; Gaz. vol. 148; p. 565.  
Hosiery. Richmond Hosiery Mills. No. 75,774; Nov. 16; Gaz. vol. 148; p. 827.  
Hosiery. Richmond Hosiery Mills. No. 75,879; Nov. 23; Gaz. vol. 148; p. 1082.  
Hosiery. Richmond Hosiery Mills. Nos. 75,966-7; Dec. 7; Gaz. vol. 149; p. 305.  
Hosiery. E. M. Townsend & Co. No. 76,234; Dec. 28; Gaz. vol. 149; p. 1116.  
Hosiery and knitted shirts and drawers. E. Loth. No. 74,256; June 29; Gaz. vol. 143; p. 1340.  
Hosiery and knitted vests, undershirts, &c. Standard Knitting Mills Company. No. 76,002; Dec. 7; Gaz. vol. 149; p. 305.  
Hosiery and ladies', men's, and children's knit undershirts and drawers. Young, Smyth, Field Company. No. 73,156; Mar. 23; Gaz. vol. 140; p. 997.

*Alphabetical list of trade-marks—Continued.*

- Hosiery, Cotton, lisle-thread, and silk. Ben Strauss Company. No. 73,157; Mar. 23; Gaz. vol. 140; p. 997.  
Hosiery, muslin underwear, and pajamas. Ely & Walker Dry Goods Co. No. 75,370; Sept. 28; Gaz. vol. 146; p. 953.  
Hosiery, undershirts, and drawers. E. K. Graham. No. 72,181; Jan. 5; Gaz. vol. 138; p. 253.  
Hosiery, undershirts, and knitted drawers. Interwoven Stocking Company. No. 73,946; June 1; Gaz. vol. 143; p. 254.  
Hosiery, underwear, and children's underwaists. H. S. Meyer & Co. No. 75,168; Sept. 7; Gaz. vol. 146; p. 252.  
Hot-water bottles and fountain-syringes made of rubber. L. & M. Rubber Works. No. 73,564; Apr. 27; Gaz. vol. 141; p. 1159.  
House and face cloths. A. Fricke. No. 74,369; July 6; Gaz. vol. 144; p. 272.  
Humidifiers. A. W. Thompson. No. 73,144; Mar. 16; Gaz. vol. 140; p. 753.  
Hydrants. John C. Kuperle Foundry Company. No. 75,576; Oct. 19; Gaz. vol. 147; p. 767.  
Hydrocarbon containing sulfur. Preparations of. Ichthyol Gesellschaft Cordes, Hermann & Co. No. 72,605; Feb. 9; Gaz. vol. 139; p. 457.  
Hydrogen peroxid. Middletown Chemical Company. No. 72,607; Feb. 9; Gaz. vol. 139; p. 457.  
Hydrogen, Peroxid of. Custer Chemical Co. No. 75,713; Nov. 9; Gaz. vol. 148; p. 565.  
Hypnotics. Chemische Fabrik Auf Actien (vorm. E. Schering). No. 75,616; Oct. 26; Gaz. vol. 147; p. 1031.  
Hypobromite, Alkaline solution of. A. H. Peter. No. 74,148; June 22; Gaz. vol. 143; p. 1104.  
Ice-breakers. Harrison Safety Boiler Works. No. 73,445; Apr. 20; Gaz. vol. 141; p. 862.  
Ice-cream. Chapin-Sachs Mfg. Co. No. 75,599; Oct. 26; Gaz. vol. 147; p. 1031.  
Ice-cream freezers. Dana Manufacturing Company. Nos. 74,546-7; July 20; Gaz. vol. 144; p. 814.  
Ice-cream freezers. Dana Manufacturing Company. No. 75,012; Aug. 24; Gaz. vol. 145; p. 1019.  
Ice-cream, ices, and frozen custard. M. T. Fussell. No. 74,449; July 13; Gaz. vol. 144; p. 558.  
Ice-cream, ices, and sherbets. J. Selzer. No. 72,912; Mar. 2; Gaz. vol. 140; p. 251.  
Ice-cream powder. Blanke & Hauk Supply Company. No. 74,961; Aug. 24; Gaz. vol. 145; p. 1017.  
In and slip soles and stiffeners. Ray-Shiner Manufacturing Company. No. 73,747; May 18; Gaz. vol. 142; p. 851.  
Incandescent mantles. Herrington Light Company. No. 72,868; Mar. 2; Gaz. vol. 140; p. 249.  
Inhalation-masks. P. Beiersdorf & Company. No. 73,751; May 18; Gaz. vol. 142; p. 851.  
Inhalers. Theo. Noel Company. No. 73,091; Mar. 16; Gaz. vol. 140; p. 752.  
Inhalers. I. Palócz. No. 73,282; Apr. 6; Gaz. vol. 141; p. 282.  
Inhalers. I. E. Levi. No. 75,965; Nov. 30; Gaz. vol. 148; p. 1340.  
Injectors. William Sellers & Company. No. 75,179; Sept. 7; Gaz. vol. 146; p. 253.  
Ink. Williamsons Concrete Ink Company. No. 75,463; Oct. 5; Gaz. vol. 147; p. 232.  
Ink, Printing-. Ault & Wiborg Co. Nos. 73,404-5; Apr. 20; Gaz. vol. 141; p. 861.  
Ink, Printing-. Sigmund Ullman Co. No. 74,513; July 20; Gaz. vol. 144; p. 813.  
Ink, Writing-. L. E. Waterman Company. Nos. 72,285-6; Jan. 12; Gaz. vol. 138; p. 525.  
Inks. Thomas De La Rue & Company. Nos. 73,857-8; May 25; Gaz. vol. 142; p. 1110.  
Inks, Printers'. Canadian Bronze Powder Works, R. E. Thorne and Company. No. 72,600; Feb. 9; Gaz. vol. 139; p. 457.  
Inks, Printing-. Ohio Ink Manufacturing Company. No. 73,152; Mar. 23; Gaz. vol. 140; p. 997.  
Insect and rodent destroyer. F. N. Thimble. No. 72,978; Mar. 9; Gaz. vol. 140; p. 501.  
Insect-destroyer. M. C. Andolin. No. 72,830; Mar. 2; Gaz. vol. 140; p. 249.  
Insect-exterminators. F. Ware. No. 73,352; Apr. 13; Gaz. vol. 141; p. 562.  
Insect-repellants. G. Hanning. No. 72,328; Jan. 19; Gaz. vol. 138; p. 763.  
Insect-specific. F. A. Rogers. No. 73,193; Mar. 30; Gaz. vol. 140; p. 1203.  
Insects, Compositions for protecting trees and plants from. Masury-Young Company. No. 75,769; Nov. 16; Gaz. vol. 148; p. 827.  
Insects on shrubbery. Fibrous bandages to kill. F. B. Stratford. No. 75,172; Sept. 7; Gaz. vol. 146; p. 252.  
Insecticide. R. J. Paquin. No. 75,772; Nov. 16; Gaz. vol. 148; p. 827.  
Insecticide and vermin-destroyer. S. Schwarz. No. 73,302; Apr. 6; Gaz. vol. 141; p. 283.  
Insecticide, disinfectant, and deodorizer. Bombay Vapor Company. No. 72,514; Feb. 2; Gaz. vol. 139; p. 193.  
Insecticides. A. C. Meyer. No. 72,606; Feb. 9; Gaz. vol. 139; p. 457.  
Insecticides. Midwest Chemical Co. No. 74,143; June 22; Gaz. vol. 143; p. 1104.  
Insecticides. Rochester Germicide Company. No. 74,421; July 13; Gaz. vol. 144; p. 557.  
Insecticides. Interstate Chemical Co. No. 75,164; Sept. 7; Gaz. vol. 146; p. 252.  
Instep-supporter or arch-prop. George G. London Manufacturing Company. No. 73,236; Apr. 6; Gaz. vol. 141; p. 281.  
Instep-supports. Adjustable Arch Company. No. 73,558; Apr. 27; Gaz. vol. 141; p. 1159.  
Insulated electrical conductors. Acme Wire Company. Nos. 72,677-9; Feb. 9; Gaz. vol. 139; p. 459.  
Insulated electrical conductors. Simplex Electrical Company. No. 74,391; July 6; Gaz. vol. 144; p. 273.  
Insulated staples. C. C. Blake. No. 75,355; Sept. 28; Gaz. vol. 146; p. 953.  
Insulated wire and wire cables. Boston Insulated Wire & Cable Company. No. 75,467; Oct. 5; Gaz. vol. 147; p. 232.  
Insulated wires and cables, Rubber-. Hazard Manufacturing Company. No. 72,246; Jan. 12; Gaz. vol. 138; p. 524.  
Insulating material containing cork. Armstrong Cork Co. No. 72,785; Feb. 23; Gaz. vol. 139; p. 985.  
Insulating varnishes and compounds. Standard Varnish Works. No. 74,783; Aug. 10; Gaz. vol. 145; p. 508.  
Insulators and insulated wires. Meirowsky & Company. No. 75,317; Sept. 21; Gaz. vol. 146; p. 716.  
Iron and steel in bars, rods, sheets, and wire. Crookes Roberts & Co. No. 73,638; May 4; Gaz. vol. 142; p. 285.  
Iron and steel in bars, rods, sheets, and wire. Crookes, Roberts & Co. No. 75,073; Aug. 31; Gaz. vol. 145; p. 1246.  
Iron and steel. United States Steel Products Export Co. No. 75,065; Mar. 9; Gaz. vol. 140; p. 503.  
Iron and steel. Chemicals for removing scale, rust, and sand from. Hanson & Van Winkle Co. No. 73,470; Apr. 20; Gaz. vol. 141; p. 863.  
Iron and steel sheeting, Galvanized. Monmouthshire Steel and Tin Plate Company. No. 72,619; Feb. 9; Gaz. vol. 139; p. 457.  
Iron and steel sheets. Newport Rolling Mill Co. No. 74,146; June 22; Gaz. vol. 143; p. 1104.  
Iron for use for making stay-bolts. W. G. Hagar Iron Company. No. 74,711; Aug. 3; Gaz. vol. 145; p. 252.  
Iron, Sheet-. Pontnewynydd Sheet and Galvanizing Company. No. 74,296; June 29; Gaz. vol. 143; p. 1341.  
Ironing-pads. Domestic Laundry Supply Co. No. 72,147; Jan. 5; Gaz. vol. 138; p. 252.  
Ironing-wax pads. E. A. Bromund. No. 76,138; Dec. 21; Gaz. vol. 149; p. 829.  
Isinglass. Charles Zoller Co. No. 75,071; Aug. 31; Gaz. vol. 145; p. 1246.  
Jamaica ginger and California brandy, Compound of. Pond's Bitters Co. No. 72,335; Jan. 19; Gaz. vol. 138; p. 763.  
Jams and marmalades. Redwood Co. No. 73,455; Apr. 20; Gaz. vol. 141; p. 862.  
Jars. L. A. Becker Company. No. 75,864; Nov. 23; Gaz. vol. 148; p. 1082.  
Jelly-powders, spices, and coffee. McLarens Limited. No. 74,142; June 22; Gaz. vol. 143; p. 1104.  
Jewelry. G. W. Dover. No. 74,941; Aug. 24; Gaz. vol. 145; p. 1017.  
Jewelry. D. Goldberg. No. 75,570; Oct. 19; Gaz. vol. 147; p. 767.  
Jewelry and precious-metal articles, Certain. Geo. H. Fuller and Son Co. No. 73,517; Apr. 27; Gaz. vol. 141; p. 1158.  
Jewelry and precious-metal ware. Stern Bros. & Co. No. 73,530; Apr. 27; Gaz. vol. 141; p. 1158.  
Jewelry, Certain. B. A. Ballou & Co. No. 72,995; Mar. 9; Gaz. vol. 140; p. 502.  
Jewelry, Certain. Arizona Turquoise Mines Co. No. 75,242; Sept. 14; Gaz. vol. 146; p. 502.  
Jewelry, Certain articles of. Whiteside & Blank. No. 75,757; Nov. 9; Gaz. vol. 148; p. 566.  
Jewelry for personal adornment. Ford & Carpenter. No. 72,188; Jan. 5; Gaz. vol. 138; p. 254.  
Jewelry for personal adornment. S. & B. Lederer Company. No. 72,463; Jan. 26; Gaz. vol. 138; p. 961.  
Jewelry for personal wear. Leys, Christie & Co. No. 72,287; Jan. 12; Gaz. vol. 138; p. 525.  
Journal, Trade. Victor Talking Machine Company. No. 74,842; Aug. 10; Gaz. vol. 145; p. 509.  
Jutes. Chiesa Hermanos. No. 76,116; Dec. 14; Gaz. vol. 149; p. 598.  
Kid, Black, dull, and colored. Dungan, Hood & Co. No. 75,530; Oct. 12; Gaz. vol. 147; p. 514.  
Kinematographs, films, &c. J. Greenbaum. No. 74,374; July 6; Gaz. vol. 144; p. 273.  
Knit cotton and woolen underwear, Men's, women's, and children's. Tootle, Wheeler & Motter Mercantile Company. No. 73,346; Apr. 13; Gaz. vol. 141; p. 562.  
Knit drawers and undershirts. J. R. Fleeman. No. 74,367; July 6; Gaz. vol. 144; p. 272.  
Knit garments, Woolen. W. Benger Söhne. No. 74,621; July 27; Gaz. vol. 144; p. 1086.  
Knit goods, Certain. Ohio Knitting Mills Co. No. 73,210; Mar. 30; Gaz. vol. 140; p. 1203.  
Knit outing garments. L. A. Brunson. No. 72,861; Mar. 2; Gaz. vol. 140; p. 249.  
Knit scarfs. N. J. Rich & Co. No. 74,698; Aug. 3; Gaz. vol. 145; p. 251.  
Knit undershirts and drawers. Van Brocklin & Stover Co. No. 75,522; Oct. 12; Gaz. vol. 147; p. 513.  
Knit underwear. Athens Knitting Company. No. 75,835; Nov. 23; Gaz. vol. 148; p. 1081.  
Knitted cotton fabric, Mercerized. Ormsby-Morris Company. No. 73,454; Apr. 20; Gaz. vol. 141; p. 862.  
Knitted jackets, coats, vests, toques, &c. Standard Knitting Company. No. 75,673; Nov. 2; Gaz. vol. 148; p. 275.  
Knitted sweaters and coats. D. J. Healy. No. 74,532; July 20; Gaz. vol. 144; p. 814.  
Knitted underwear. Little Falls Manufacturing Co. No. 73,662; May 11; Gaz. vol. 142; p. 563.  
Knitted underwear and hosiery. Hibben, Hollweg & Company. No. 75,402; Sept. 28; Gaz. vol. 146; p. 954.



*Alphabetical list of trade-marks—Continued.*

- Knitting-machines and parts thereof. E. Dubied & Cie. No. 74,623; July 27; Gaz. vol. 144; p. 1086.  
 Knives and tools. Snell & Atherton. No. 76,039; Dec. 7; Gaz. vol. 149; p. 306.  
 Knives, Automatic pen-. Eagle Pencil Company. No. 75,333; Sept. 21; Gaz. vol. 146; p. 716.  
 Knives, forks, shears, scissors, and razors. Geneva Cutlery Co. No. 74,173; June 22; Gaz. vol. 143; p. 1104.  
 Knives, scissors, and manicule files and blades, Pen-. H. Claus. No. 75,692; Nov. 2; Gaz. vol. 148; p. 276.  
 Knives, scissors, and razors, Pocket-. Wester Bros. No. 72,465; Jan. 26; Gaz. vol. 138; p. 961.  
 Labels, Woven. A. L. Kahn. No. 73,551; Apr. 27; Gaz. vol. 141; p. 1159.  
 Laces. Ben Strauss Company. No. 74,195; June 22; Gaz. vol. 143; p. 1105.  
 Laces and braids, Shoe and corset. E. W. Jenkins. No. 73,882; May 25; Gaz. vol. 142; p. 1111.  
 Laces, Shoe-. Geo. E. Keith Company. No. 73,197; Mar. 30; Gaz. vol. 140; p. 1203.  
 Laces, Shoe-. Geo. E. Keith Company. No. 73,765; May 18; Gaz. vol. 142; p. 851.  
 Laces, Shoe-. E. J. Reilly. No. 74,238; June 29; Gaz. vol. 143; p. 1339.  
 Laces, Silk, linen, and mercerized-cotton shoe-. Everett E. Belding Company. No. 75,564; Oct. 19; Gaz. vol. 147; p. 767.  
 Lacing hooks and studs, Shoe-. Agatine Shoe-Hook and Eyelet Company. No. 75,888; Nov. 23; Gaz. vol. 148; p. 1082.  
 Ladders. Udell Works. No. 73,348; Apr. 13; Gaz. vol. 141; p. 562.  
 Lamp-burners. G. H. Rosenblatt. No. 74,536; July 20; Gaz. vol. 144; p. 814.  
 Lamp-chimneys. H. Schneider Aktiengesellschaft. No. 74,454; July 13; Gaz. vol. 144; p. 558.  
 Lamp-chimneys and lantern-globes, Glass. Gill Brothers Company. No. 74,727; Aug. 3; Gaz. vol. 144; p. 252.  
 Lamp holders, Extension electric-. L. A. Williamson Company. No. 76,166; Dec. 21; Gaz. vol. 149; p. 830.  
 Lamp mantles and filaments therefor, Incandescent-gas-. R. Laigle. No. 74,345; July 6; Gaz. vol. 144; p. 272.  
 Lamp sockets, Electric-incandescent-. Bryant Electric Company. No. 72,862; Mar. 2; Gaz. vol. 140; p. 249.  
 Lamps and devices and appliances for mounting the same, Electrical. Linolite Company. No. 74,180; June 22; Gaz. vol. 143; p. 1105.  
 Lamps and lamp burners, Hydrocarbon. U. S. Automatic Lighting Company. No. 75,193; Sept. 14; Gaz. vol. 146; p. 501.  
 Lamps and lamp-fixtures, Gas-. Welsbach Company. No. 74,081; June 15; Gaz. vol. 143; p. 860.  
 Lamps and lanterns, Flat-wick burners for oil-burning. R. E. Dietz Company. No. 72,385; Jan. 19; Gaz. vol. 138; p. 765.  
 Lamps and lanterns, Glass globes and chimneys for. C. T. Ham Manufacturing Company. No. 74,219; June 29; Gaz. vol. 143; p. 1339.  
 Lamps and lanterns, Sockets or holders for electric lamps for use in oil-burning. R. E. Dietz Company. No. 73,957; June 1; Gaz. vol. 143; p. 257.  
 Lamps, Arc-. Economy Electric Company. Nos. 73,195-6; Mar. 30; Gaz. vol. 140; p. 1203.  
 Lamps, Arc-. Economy Electric Company. Nos. 73,535-6; Apr. 27; Gaz. vol. 141; p. 1153.  
 Lamps, Arc-. Economy Electric Company. No. 73,560; Apr. 27; Gaz. vol. 141; p. 1159.  
 Lamps, burners, and wicks, Petroleum. Hugo Schneider Aktiengesellschaft. No. 72,365; Jan. 19; Gaz. vol. 138; p. 764.  
 Lamps for medical and surgical treatment, Electrical. E. W. Locke. No. 72,928; Mar. 2; Gaz. vol. 140; p. 251.  
 Lamps for motor-vehicles, Oil and gas. Packard Motor Car Company. No. 73,034; Mar. 9; Gaz. vol. 140; p. 503.  
 Lamps, Fuel-burning. J. W. Tobin. No. 75,587; Oct. 19; Gaz. vol. 147; p. 768.  
 Lamps, glow-bodies, and mantles, Gas. Iron City Stamping Company. No. 74,263; June 29; Gaz. vol. 143; p. 1340.  
 Lamps, Incandescent electric. Novelty Incandescent Lamp Co. No. 72,407; Jan. 26; Gaz. vol. 138; p. 959.  
 Lamps, Incandescent electric. Iron City Engineering Company. No. 72,685; Feb. 9; Gaz. vol. 139; p. 459.  
 Lamps, Incandescent electric. Electrical Accessories Co. No. 75,363; Sept. 28; Gaz. vol. 146; p. 953.  
 Lampblack. Wilckes Martin Wilckes Company. No. 72,236; Jan. 12; Gaz. vol. 138; p. 523.  
 Lantern and lamp globes or chimneys. Corning Glass Works. No. 75,641; Oct. 28; Gaz. vol. 147; p. 1032.  
 Lanterns, Oil-burning. C. T. Ham Manufacturing Company. No. 75,332; Sept. 21; Gaz. vol. 146; p. 716.  
 Lard. John Morrell & Company. No. 74,906; Aug. 17; Gaz. vol. 145; p. 760.  
 Lard. Jacob Dold Packing Company. No. 76,181; Dec. 21; Gaz. vol. 149; p. 830.  
 Lard. W. Moland's Sons. No. 76,198; Dec. 28; Gaz. vol. 149; p. 1115.  
 Lard and tallow compound. Fred. Eckart Packing Company. No. 75,743; Nov. 9; Gaz. vol. 148; p. 566.  
 Lard, beef-fat, and cotton-seed-oil compound. T. M. Sinclair & Co. No. 73,119; Mar. 16; Gaz. vol. 140; p. 752.  
 Lard, pork sausage, breakfast-bacon, and hams. Cleveland Provision Company. No. 75,503; Oct. 12; Gaz. vol. 147; p. 513.  
 Latches, bolts, and fasteners. Stanley Works. No. 72,261; Jan. 12; Gaz. vol. 138; p. 524.  
 Laundry-mangle hair-felt covering. Illinois Leather Company. No. 74,553; July 20; Gaz. vol. 144; p. 814.  
 Laundry tablets for washing and cleansing purposes. L.V. Washing Tablet Co. Nos. 72,366-7; Jan. 19; Gaz. vol. 138; p. 764.  
 Laxative. Sharp & Dohme. No. 76,054; Dec. 7; Gaz. vol. 149; p. 307.  
 Laxative, Effervescent. Wingate Chemical Co. No. 72,211; Jan. 5; Gaz. vol. 138; p. 254.  
 Laxative pharmaceutical product, Granulated. L. Graux. No. 75,847; Nov. 23; Gaz. vol. 148; p. 1081.  
 Laxative preparation. Voigt & Co. No. 73,771; May 18; Gaz. vol. 142; p. 851.  
 Laxative tablets. M. A. Winter Co. Nos. 72,199-200; Jan. 5; Gaz. vol. 138; p. 254.  
 Laxative tablets. Chemische Fabrik Helfenberg A. G. vorm. Eugen Dieterich. No. 73,187; Mar. 30; Gaz. vol. 140; p. 1203.  
 Laxative tablets and laxative-quinin tablets. A. E. Dahlberg. No. 73,290; Apr. 6; Gaz. vol. 141; p. 282.  
 Laxatives, antiseptic powders, &c. Cardolax Company. No. 75,739; Nov. 9; Gaz. vol. 148; p. 565.  
 Lead, Arsenate of. Grasselli Chemical Company. No. 75,981; Nov. 30; Gaz. vol. 148; p. 1340.  
 Lead, metal sheets, and metal pipe. Hoyt Metal Company. No. 74,453; July 13; Gaz. vol. 144; p. 558.  
 Lead pipe, sheet-lead, lead in ingots, and Babbitt and type metal. National Lead Company. No. 73,185; Mar. 23; Gaz. vol. 140; p. 998.  
 Leather. F. Blumenthal & Company. No. 73,887; June 1; Gaz. vol. 143; p. 253.  
 Leather. Pfister & Vogel Leather Company. No. 75,582; Oct. 19; Gaz. vol. 147; p. 768.  
 Leather and calfskins, Shoe-upper. Creese & Cook Co. No. 73,888; June 1; Gaz. vol. 143; p. 253.  
 Leather and rubber goods, Waterproof dressing for. G. H. Nash. No. 73,807; May 18; Gaz. vol. 142; p. 852.  
 Leather and tanned hides, Sole and upper. B. Frank & Sons. No. 72,423; Jan. 26; Gaz. vol. 138; p. 959.  
 Leather, Belting. Graton & Knight Manufacturing Company. No. 74,811; Aug. 10; Gaz. vol. 145; p. 508.  
 Leather, Belting. Graton & Knight Manufacturing Company. No. 75,159; Sept. 7; Gaz. vol. 146; p. 252.  
 Leather-cloth. Leather Cloth Co. Nos. 74,644-6; July 27; Gaz. vol. 144; p. 1086.  
 Leather-dressing. Dix Manufacturing Company. No. 74,340; July 6; Gaz. vol. 144; p. 272.  
 Leather-dressing. Whittemore Brothers and Company. No. 74,937; Aug. 17; Gaz. vol. 145; p. 761.  
 Leather dressings and polishes. L. Graziadei. No. 72,713; Feb. 16; Gaz. vol. 139; p. 725.  
 Leather, Enameled and patent. G. C. Y. Leather Company. No. 74,548; July 20; Gaz. vol. 144; p. 814.  
 Leather, Enameled and patent. G. C. Y. Leather Company. No. 75,902; Nov. 23; Gaz. vol. 148; p. 1083.  
 Leather-finishing machines. Moenus Machine Works. No. 75,093; Aug. 31; Gaz. vol. 145; p. 1247.  
 Leather goods, Dressing and preservative for. Abercrombie & Fitch Company. No. 73,504; Apr. 27; Gaz. vol. 141; p. 1157.  
 Leather, Patent and enameled. J. T. Smith. No. 76,096; Dec. 14; Gaz. vol. 149; p. 598.  
 Leather, Patent or enameled. Bristol Patent Leather Company. Nos. 75,035-6; Aug. 31; Gaz. vol. 145; p. 1245.  
 Leather-polishes. S. M. Bixby & Co. No. 73,698; May 11; Gaz. vol. 142; p. 564.  
 Leather-polishes. S. M. Bixby & Co. No. 75,752; Nov. 9; Gaz. vol. 148; p. 566.  
 Leather, &c., Preparation for cleaning and renewing. Whittemore Brothers and Company. No. 76,061; Dec. 7; Gaz. vol. 149; p. 307.  
 Leather, Sole-. W. H. McElwain Company. No. 73,910; June 1; Gaz. vol. 143; p. 253.  
 Leathers, Hand tooled, embossed, and colored art-. M. P. Kerfoot. No. 74,773; Aug. 10; Gaz. vol. 145; p. 507.  
 Leathers, Kid, calf, and colt. Thompson-Adams Leather Co. No. 74,934; Aug. 17; Gaz. vol. 145; p. 761.  
 Lenses for optical purposes. White, Haines Optical Company. No. 75,479; Oct. 5; Gaz. vol. 147; p. 232.  
 Lifting-jacks. Barth Manufacturing Co. No. 73,077; Mar. 16; Gaz. vol. 140; p. 751.  
 Lighting apparatus, Certain. Adams & Westlake Company. No. 73,131; Mar. 16; Gaz. vol. 140; p. 753.  
 Lighting apparatus, Certain. Badger Brass Mfg. Co. No. 73,132; Mar. 16; Gaz. vol. 140; p. 753.  
 Lighting apparatus, Certain. National Gas Light Company. No. 76,031; Dec. 7; Gaz. vol. 149; p. 306.  
 Lightning-arresters. F. W. Lord. No. 76,030; Dec. 7; Gaz. vol. 149; p. 306.  
 Lime. L. M. Palmer. No. 76,214; Dec. 28; Gaz. vol. 149; p. 1115.  
 Line-supports. Halsey J. Tibbals Chemical Manufacturing Company. No. 74,813; Aug. 10; Gaz. vol. 145; p. 508.  
 Linen and hemp piece goods. A. Morton & Co. No. 74,524; July 20; Gaz. vol. 144; p. 813.  
 Linen piece goods. Old Bleach Linen Company. No. 72,621; Feb. 9; Gaz. vol. 139; p. 457.  
 Linens, laces, crapes, and towels. J. Crapo. No. 75,391; Sept. 28; Gaz. vol. 146; p. 954.  
 Liniment. S. Lord. No. 72,844; Mar. 2; Gaz. vol. 140; p. 249.  
 Liniment. A. Stanford. No. 74,668; July 27; Gaz. vol. 144; p. 1087.  
 Liniment. A. J. Gray. No. 75,250; Sept. 14; Gaz. vol. 146; p. 503.  
 Liniment. W. Deal. No. 75,781; Nov. 16; Gaz. vol. 148; p. 827.  
 Liniment. T. E. McManus. No. 75,967; Nov. 30; Gaz. vol. 148; p. 1340.  
 Liniment and ointment. W. H. Caldwell. No. 76,017; Dec. 7; Gaz. vol. 149; p. 306.

*Alphabetical list of trade-marks—Continued.*

- Liniment, Family. Columbia Drug Co. No. 75,618; Oct. 26; Gaz. vol. 147; p. 1031.  
 Liniment for internal and external use. O. B. Baker. No. 73,314; Apr. 13; Gaz. vol. 141; p. 561.  
 Liniment for live stock. C. Slutz & Company. No. 75,882; Nov. 23; Gaz. vol. 148; p. 1082.  
 Liniment, ointment, and healing-oil, Combined. O. P. Sweet. No. 72,334; Jan. 19; Gaz. vol. 138; p. 763.  
 Liniments. E. B. Hall. No. 73,330; Apr. 13; Gaz. vol. 141; p. 561.  
 Liniments. Lanman & Kemp. No. 74,657; July 27; Gaz. vol. 144; p. 1087.  
 Liniments. J. S. Merrell Drug Company. No. 74,860; Aug. 17; Gaz. vol. 145; p. 759.  
 Liniments for external use. C. E. Farnum. No. 73,326; Apr. 13; Gaz. vol. 141; p. 561.  
 Linoleum, oiled cloth, and cork carpet. Farr and Bailey Manufacturing Company. No. 74,499; July 20; Gaz. vol. 144; p. 813.  
 Liquid-separators. Albaugh Dover Co. No. 75,523; Oct. 12; Gaz. vol. 147; p. 513.  
 Liquors, Certain spirituous. Cushing Medical Supply Co. No. 75,559; Oct. 19; Gaz. vol. 147; p. 767.  
 Liquors, Spirituous. Figge-Doyle Co. No. 75,226; Sept. 14; Gaz. vol. 146; p. 502.  
 Locks. E. T. Fraim Lock Co. No. 73,658; May 4; Gaz. vol. 142; p. 285.  
 Locks. Yale & Towne Mfg. Co. No. 75,592; Oct. 19; Gaz. vol. 147; p. 768.  
 Locks, bolts, fasteners, and catches. Belknap Hardware and Manufacturing Co. No. 74,603; July 27; Gaz. vol. 144; p. 1085.  
 Locks, padlocks, and keys. Miller Lock Company. No. 74,387; July 6; Gaz. vol. 144; p. 273.  
 Locks, Sash-. L. R. Eddy. No. 75,961; Nov. 30; Gaz. vol. 148; p. 1340.  
 Logs, lumber, staves, and headings. Lucas E. Moore Stave Company. No. 72,799; Feb. 23; Gaz. vol. 139; p. 985.  
 Long-cloth. A. L. Reid & Co. No. 73,308; Apr. 13; Gaz. vol. 141; p. 561.  
 Lotions, Face and scalp. C. M. Athey. No. 75,953; Nov. 30; Gaz. vol. 148; p. 1340.  
 Lubricant. J. R. Reilly. No. 76,215; Dec. 28; Gaz. vol. 149; p. 1115.  
 Lubricant, Graphite. Monarch Manufacturing Co. No. 72,230; Jan. 12; Gaz. vol. 138; p. 523.  
 Lubricating compound. Tropical Oil Company. No. 76,035; Dec. 7; Gaz. vol. 149; p. 306.  
 Lubricating-grease and yarn-grease. Cataract Refining and Manufacturing Company. No. 75,556; Oct. 19; Gaz. vol. 147; p. 767.  
 Lubricating greases and oils. New York Lubricating Oil Company. Nos. 72,380-1; Jan. 19; Gaz. vol. 138; p. 765.  
 Lumber. Thompson & Tucker Lumber Company. No. 72,440; Jan. 26; Gaz. vol. 138; p. 960.  
 Lumber. H. Forchheimer. No. 75,308; Sept. 21; Gaz. vol. 146; p. 716.  
 Lumber. Ferd. Brenner Lbr. Co. No. 75,642; Oct. 26; Gaz. vol. 147; p. 1032.  
 Lumber and logs. Fee-Crayton Hardwood Lumber Company. No. 73,824; May 25; Gaz. vol. 142; p. 1109.  
 Lumber and logs. Russe & Burgess. No. 73,829; May 25; Gaz. vol. 142; p. 1109.  
 Lumber and logs. Jordan Bros. Lumber Co. No. 74,134; June 22; Gaz. vol. 143; p. 1103.  
 Macaroni. S. R. Smith Co. No. 74,001; June 8; Gaz. vol. 143; p. 558.  
 Macaroni and pure olive-oil. F. G. Pivrotto. No. 74,955; Aug. 24; Gaz. vol. 145; p. 1017.  
 Macaroni, spaghetti, and noodle dressing. Mercurio Bros. Grocer Co. No. 73,701; Nov. 2; Gaz. vol. 148; p. 276.  
 Macaroni, spaghetti, and noodles. S. R. Smith Company. No. 74,152; June 22; Gaz. vol. 143; p. 1104.  
 Macaroni, spaghetti, vermicelli, and sardines. Strohmeier & Arpe Company. No. 73,225; Mar. 30; Gaz. vol. 140; p. 1204.  
 Machine parts, Certain. Dodge Manufacturing Company. No. 73,703; May 11; Gaz. vol. 142; p. 564.  
 Machines and parts thereof, Certain. Linotype and Machinery, Limited. No. 73,284; Apr. 6; Gaz. vol. 141; p. 282.  
 Machines and parts thereof, Certain. Johnston Harvester Company. No. 74,070; June 15; Gaz. vol. 143; p. 860.  
 Machinery and tools, Certain. Simplex Manufacturing Company. No. 75,419; Sept. 28; Gaz. vol. 146; p. 955.  
 Machinery, Certain. Stewart Machinery Mfg. Co. No. 72,176; Jan. 5; Gaz. vol. 138; p. 253.  
 Machinery, Certain. United Shoe Machinery Company. Nos. 72,303-4; Jan. 12; Gaz. vol. 138; p. 525.  
 Machinery, Certain. Covell Mfg. Co. No. 73,258; Apr. 6; Gaz. vol. 141; p. 282.  
 Machinery, Certain. Wm. J. Oliver Manufacturing Co. No. 73,739; May 11; Gaz. vol. 142; p. 565.  
 Machinery, Certain. E. W. Bliss Company. No. 75,362; Sept. 28; Gaz. vol. 146; p. 953.  
 Machinery, Certain. Sumner Iron Works. No. 76,055; Dec. 7; Gaz. vol. 149; p. 307.  
 Machinery, Certain. International Harvester Company of America. No. 76,118; Dec. 14; Gaz. vol. 149; p. 598.  
 Machinery packing. New York Belting and Packing Company. No. 75,108; Aug. 31; Gaz. vol. 145; p. 1247.  
 Magazine. Housekeeper Corporation. No. 72,653; Feb. 9; Gaz. vol. 139; p. 458.  
 Magazine, Monthly. American Poultry Journal Pub. Co. No. 74,059; June 15; Gaz. vol. 143; p. 859.  
 Magazine, Monthly. G. Stickley. No. 74,104; June 15; Gaz. vol. 143; p. 861.  
 Magazine, Monthly. Sprague Publishing Company. No. 75,407; Sept. 28; Gaz. vol. 146; p. 954.  
 Magazines. T. A. Cawthra. No. 72,753; Feb. 16; Gaz. vol. 139; p. 726.  
 Magazines. Palmer School and Infirmary of Chiropractic. No. 74,779; Aug. 10; Gaz. vol. 145; p. 507.  
 Magazines. Norvell Shapleigh Hardware Company. No. 74,889; Aug. 17; Gaz. vol. 145; p. 760.  
 Magazines, Monthly. Lewis Publishing Company. No. 72,747; Feb. 16; Gaz. vol. 139; p. 726.  
 Magazines, Monthly. Aero Publishing Company. No. 74,244; June 29; Gaz. vol. 143; p. 1339.  
 Magnesia, Preparation of. Chas. H. Phillips Chemical Co. No. 75,501; Oct. 12; Gaz. vol. 147; p. 513.  
 Magnesium, Chlorid of. H. B. Dresser. No. 73,704; May 11; Gaz. vol. 142; p. 564.  
 Malt-meal. C. L. Plumb. No. 74,696; Aug. 3; Gaz. vol. 145; p. 251.  
 Malt and hop extract. Yonkers Brewery. No. 72,112; Jan. 5; Gaz. vol. 138; p. 251.  
 Malt and rye with fruit-juices, Distillate of. Geo. Bieler Sons Co. No. 75,936; Nov. 30; Gaz. vol. 148; p. 1339.  
 Malt beverage. Theo. Hamm Brewing Company. No. 74,026; June 8; Gaz. vol. 143; p. 558.  
 Malt beverage. Hoster-Columbus Associated Breweries Company. No. 74,250; June 29; Gaz. vol. 143; p. 1340.  
 Malt beverage. Christian Moerlein Brewing Co. No. 74,302; July 6; Gaz. vol. 144; p. 272.  
 Malt beverage. New South Brewery & Ice Co. No. 74,660; July 27; Gaz. vol. 144; p. 1087.  
 Malt beverage. New Orleans Brewing Co. No. 75,281; Sept. 21; Gaz. vol. 146; p. 715.  
 Malt beverage, Non-intoxicating. Hoster-Columbus Associated Breweries Company. No. 72,224; Jan. 12; Gaz. vol. 138; p. 523.  
 Malt beverage, Non-intoxicating. Anheuser-Busch Brewing Association. No. 75,291; Sept. 21; Gaz. vol. 146; p. 715.  
 Malt extract and cod-liver oil, Compound of. Allen & Hanburys Co. No. 74,649; July 27; Gaz. vol. 144; p. 1086.  
 Malt extract combined with lactic ferment. Franco-American Ferment Company. No. 73,003; Mar. 9; Gaz. vol. 140; p. 502.  
 Malt extracts. M. Eisner. No. 74,183; June 22; Gaz. vol. 143; p. 1105.  
 Malt tonic. Los Angeles Brewing Co. No. 73,595; May 4; Gaz. vol. 142; p. 283.  
 Mandolins. Rudolph Wurlitzer Co. No. 73,602; May 4; Gaz. vol. 142; p. 284.  
 Mandolins and guitars. Rudolph Wurlitzer Co. No. 73,601; May 4; Gaz. vol. 142; p. 284.  
 Manifold devices, Autographic. J. H. Schweich. No. 74,077; June 15; Gaz. vol. 143; p. 860.  
 Mantles, Gas-. Incandescent Light & Supply Co. No. 75,787; Nov. 16; Gaz. vol. 148; p. 828.  
 Mantles, Incandescent gas-. Block Light Company. No. 72,786; Feb. 23; Gaz. vol. 139; p. 985.  
 Mantles, Incandescent gas-. Block Light Company. No. 75,924; Nov. 30; Gaz. vol. 148; p. 1339.  
 Manure. Hull Oil Manufacturing Co. No. 75,082; Aug. 31; Gaz. vol. 145; p. 1246.  
 Marine, field, and opera glasses. Andrew J. Lloyd Company. No. 73,531; Apr. 27; Gaz. vol. 141; p. 1158.  
 Marshmallows. Clark Sales Company. No. 72,999; Mar. 9; Gaz. vol. 140; p. 502.  
 Match-safes and similar articles. J. P. Eustis Manufacturing Company. No. 75,054; Aug. 31; Gaz. vol. 145; p. 1245.  
 Matches. J. A. Hunt. No. 72,249; Jan. 12; Gaz. vol. 138; p. 524.  
 Matches. J. A. Hunt. No. 72,654; Feb. 9; Gaz. vol. 139; p. 458.  
 Matches, Safety-. Strohmeier & Arpe Company. No. 72,134; Jan. 5; Gaz. vol. 138; p. 252.  
 Matches, Safety-. Jönköpings och Vileans Tändsticksfabriksaktiebolag. No. 74,733; Aug. 3; Gaz. vol. 145; p. 252.  
 Mattresses. Southern Spring Bed Co. No. 74,025; June 8; Gaz. vol. 143; p. 558.  
 Mattresses. Dubuque Mattress Factory. No. 74,089; June 15; Gaz. vol. 143; p. 860.  
 Mattresses. Sealy Mattress Co. No. 74,156; June 22; Gaz. vol. 143; p. 1104.  
 Mattresses. Southern Spring Bed Co. No. 74,393; July 6; Gaz. vol. 144; p. 273.  
 Mattresses. Gholstin-Cunningham Spring Bed Co. No. 74,586; July 27; Gaz. vol. 144; p. 1085.  
 Mattresses. Gholstin-Cunningham Spring Bed Co. No. 74,848; Aug. 10; Gaz. vol. 145; p. 509.  
 Mattresses. Gangelhoff Bros. Nos. 75,334-5; Sept. 21; Gaz. vol. 146; p. 717.  
 Mattresses. A. C. Rick. No. 75,453; Oct. 5; Gaz. vol. 147; p. 232.  
 Mattresses. Gangelhoff Bros. No. 75,664; Nov. 2; Gaz. vol. 148; p. 275.  
 Mattresses. Ideal Manufacturing Company. No. 75,786; Nov. 16; Gaz. vol. 148; p. 828.  
 Mattresses. Sealy Mattress Company. No. 76,217; Dec. 28; Gaz. vol. 149; p. 1115.  
 Mattresses and cushions. F. A. Hall. No. 75,161; Sept. 7; Gaz. vol. 146; p. 252.  
 Mattresses, Cotton-felt. C. C. Carty. No. 72,863; Mar. 2; Gaz. vol. 140; p. 249.  
 Mattresses, Woven-wire. James E. Tompkins Co. No. 74,612; July 27; Gaz. vol. 144; p. 1085.  
 Mattresses, Woven-wire. C. O. Hasselbarth. No. 75,400; Sept. 28; Gaz. vol. 146; p. 954.



*Alphabetical list of trade-marks—Continued.*

- Matzoth. Farber & Wittenberg. No. 75,394; Sept. 28; Gaz. vol. 146; p. 954.  
 Measuring electrical resistances, Instruments for. Evershed & Vignoles. No. 75,683; Nov. 2; Gaz. vol. 148; p. 275.  
 Measuring machines or instruments. Fortuna-Werke Albert Hirth. No. 73,162; Mar. 23; Gaz. vol. 140; p. 997.  
 Meat extracts. Compagnie des Produits Kemmerich Société Anonyme. No. 73,174; Mar. 23; Gaz. vol. 140; p. 998.  
 Meats, Smoked. John Morrell & Company. No. 75,231; Sept. 14; Gaz. vol. 146; p. 502.  
 Medical apparatus, Electro-. Kny Scheerer Company. No. 76,026; Dec. 7; Gaz. vol. 149; p. 806.  
 Medical compound. Farbwerke vormals Meister Lucius & Brünig. No. 74,280; June 29; Gaz. vol. 143; p. 1341.  
 Medical preparation. W. E. Steinback. No. 74,163; June 22; Gaz. vol. 143; p. 1104.  
 Medicated pads and plasters. M. E. Chichester. No. 73,671; May 11; Gaz. vol. 142; p. 563.  
 Medicated plasters. H. B. Yoas. No. 73,741; May 11; Gaz. vol. 142; p. 565.  
 Medicated preparation. Barclay & Barclay. No. 73,059; Mar. 16; Gaz. vol. 140; p. 751.  
 Medicinal bitters. V. Langmann. No. 72,197; Jan. 5; Gaz. vol. 138; p. 254.  
 Medicinal castor-oil. Guy G. Major Company. No. 72,245; Jan. 12; Gaz. vol. 138; p. 524.  
 Medicinal compound. Holland Medicine Company. No. 73,680; May 11; Gaz. vol. 142; p. 563.  
 Medicinal compound containing calabar. E. A. Turner. No. 72,341; Jan. 19; Gaz. vol. 138; p. 764.  
 Medicinal compound in tablet form. Creole Chemical Co. No. 72,833; Mar. 2; Gaz. vol. 140; p. 249.  
 Medicinal dietetical iron preparations. Dr. Degen & Kuth. No. 72,602; Feb. 9; Gaz. vol. 139; p. 457.  
 Medicinal electrolytic preparations. F. H. Aschner. No. 72,321; Jan. 19; Gaz. vol. 139; p. 765.  
 Medicinal mineral water. California Mineral Water Company. No. 73,215; Mar. 30; Gaz. vol. 140; p. 1204.  
 Medicinal preparation, Certain. B. J. Longwell. No. 72,198; Jan. 5; Gaz. vol. 138; p. 254.  
 Medicinal preparation compounded from herbs. Goodwin & Barbour. No. 75,367; Sept. 28; Gaz. vol. 146; p. 953.  
 Medicinal preparation containing albumen. Tropon Works. No. 72,209; Jan. 5; Gaz. vol. 138; p. 254.  
 Medicinal preparations for certain diseases. Pape, Thompson & Pape. No. 72,470; Jan. 26; Gaz. vol. 138; p. 961.  
 Medicinal preparations, Laxative cathartic. Frederick Stearns & Co. No. 76,249; Dec. 28; Gaz. vol. 149; p. 1116.  
 Medicinal remedies for certain diseases. W. F. Shook. No. 73,304; Apr. 6; Gaz. vol. 141; p. 283.  
 Medicinal tablet. A. Radke. No. 73,070; Mar. 16; Gaz. vol. 140; p. 751.  
 Medicine. Knoll & Co. No. 73,150; Mar. 23; Gaz. vol. 140; p. 997.  
 Medicine. Abbott Alkaloidal Co. No. 74,538; July 20; Gaz. vol. 144; p. 814.  
 Medicine, Eye. J. Kiss. No. 76,251; Dec. 28; Gaz. vol. 149; p. 1116.  
 Medicine for amenorrhea, &c. M. R. Tipton. No. 75,776; Nov. 16; Gaz. vol. 148; p. 827.  
 Medicine for certain diseases. Dike Drug Co. No. 73,324; Apr. 13; Gaz. vol. 141; p. 561.  
 Medicine for chills, fevers, and colds, Tonic. Huston Tonic Co. No. 73,331; Apr. 13; Gaz. vol. 141; p. 561.  
 Medicine for heart diseases. Knoll & Co. No. 73,012; Mar. 9; Gaz. vol. 140; p. 502.  
 Medicine for human and animal use. Knoll & Co. No. 73,755; May 18; Gaz. vol. 142; p. 851.  
 Medicine for syphilis, &c. Vial. No. 72,610; Feb. 9; Gaz. vol. 139; p. 457.  
 Medicine for the relief of constipation. Abbott Alkaloidal Co. No. 75,029; Aug. 31; Gaz. vol. 145; p. 1245.  
 Medicine for the relief of painful menses. R. Gaupp. No. 72,841; Mar. 2; Gaz. vol. 140; p. 249.  
 Medicine in tablet form. G. W. Slaughter. No. 75,260; Sept. 14; Gaz. vol. 146; p. 503.  
 Medicine, Poultry. G. A. Jannell. No. 76,122; Dec. 14; Gaz. vol. 149; p. 598.  
 Medicine, Proprietary. C. P. Bowie. No. 75,955; Nov. 30; Gaz. vol. 148; p. 1340.  
 Medicine to counteract the effect of liquor on the human system. L. S. Brown. No. 74,846; Aug. 10; Gaz. vol. 145; p. 509.  
 Medicine, Tonic. Gardiner Pharmacal Co. No. 75,567; Oct. 19; Gaz. vol. 147; p. 767.  
 Medicines. Van Scoy Chemical Co. No. 74,841; Aug. 10; Gaz. vol. 145; p. 509.  
 Medicines. F. A. Bongartz. No. 75,596; Oct. 26; Gaz. vol. 147; p. 1031.  
 Medicines. K. Wolf. No. 75,634; Oct. 26; Gaz. vol. 147; p. 1032.  
 Medicines. Theo. Noel Company. No. 75,884; Nov. 23; Gaz. vol. 148; p. 1082.  
 Medicines and poultices. Waterbury Chemical Company. No. 74,423; July 13; Gaz. vol. 144; p. 557.  
 Medicines and toilet preparations. Mexican Amole Soap Co. No. 75,255; Sept. 14; Gaz. vol. 146; p. 503.  
 Medicines, Certain. E. D. Rutledge. No. 72,474; Jan. 26; Gaz. vol. 138; p. 961.  
 Medicines, Certain named. Königliche Regierung Abteilung für direkte Steuern Domänen und Forsten in Wiesbaden. No. 75,107; Aug. 31; Gaz. vol. 145; p. 1247.  
 Medicines, Emmenagogue. Vial. No. 75,195; Sept. 14; Gaz. vol. 146; p. 501.  
 Medicines for Bright's disease and all kidney troubles and diabetes. F. Fisher. No. 73,149; Mar. 23; Gaz. vol. 140; p. 997.  
 Medicines for certain diseases. A. H. Gottschall. No. 73,976; June 8; Gaz. vol. 143; p. 557.  
 Medicines for children. O. P. Litzenger. No. 74,825; Aug. 10; Gaz. vol. 145; p. 509.  
 Medicines for inhalants. I. E. Levi. No. 75,865; Nov. 23; Gaz. vol. 148; p. 1082.  
 Medicines for rheumatism and other muscular afflictions. Van Scoy Chemical Co. No. 75,065; Aug. 31; Gaz. vol. 145; p. 1246.  
 Medicines to prevent venereal diseases. B. Weissman. No. 73,987; June 8; Gaz. vol. 143; p. 557.  
 Metal and glass polish. C. A. Carlson. No. 73,173; Mar. 23; Gaz. vol. 140; p. 997.  
 Metal brazing and welding compounds. Wassermann & Co., The Antigliessol Company Ltd. Lausanne. Nos. 75,631-2; Oct. 26; Gaz. vol. 147; p. 1032.  
 Metal culverts and pipes, Corrugated. Corrugated Metal Manufacturing Company. No. 72,217; Jan. 12; Gaz. vol. 138; p. 523.  
 Metal, Expanded. Northwestern Expanded Metal Company. No. 74,023; June 8; Gaz. vol. 143; p. 558.  
 Metal plates, bars, tubes, and castings. United States Sherardizing Co. No. 75,237; Sept. 14; Gaz. vol. 146; p. 502.  
 Metal-polish. International Metal Polish Company. No. 72,754; Feb. 16; Gaz. vol. 139; p. 726.  
 Metal-polish. Seattle Polish Manufacturing Co. Nos. 72,910-11; Mar. 2; Gaz. vol. 140; p. 251.  
 Metal-polish. F. T. Lord Polish Co. No. 73,002; Mar. 9; Gaz. vol. 140; p. 502.  
 Metal-polish. F. T. Lord Polish Co. No. 73,188; Mar. 30; Gaz. vol. 140; p. 1203.  
 Metal-polish. Wm. A. Rogers, Limited. No. 73,579; May 4; Gaz. vol. 142; p. 283.  
 Metal-polish. X-Ray Stove Polish Co. No. 74,401; July 6; Gaz. vol. 144; p. 273.  
 Metal-polish. American Marine Equipment Co. No. 74,653; July 27; Gaz. vol. 144; p. 1087.  
 Metal-polish. Radium Manufacturing Company. No. 74,664; July 27; Gaz. vol. 144; p. 1087.  
 Metal-polishes. Lewis & Conger. No. 72,907; Mar. 2; Gaz. vol. 140; p. 251.  
 Metal-polishes. Cancos Manufacturing Company. No. 72,981; Mar. 9; Gaz. vol. 140; p. 501.  
 Metal-polishes. K. B. Lapham. No. 73,013; Mar. 9; Gaz. vol. 140; p. 502.  
 Metal-welding compound. Anti Borax Compound Company. No. 75,497; Oct. 12; Gaz. vol. 147; p. 513.  
 Metal, white-metal alloys, phosphor-tin, and solder, Babbitt. Union Smelting & Refining Company. Nos. 73,462-3; Apr. 20; Gaz. vol. 141; p. 862.  
 Metals and metal forgings, Certain. E. Kaufman Steel Company. No. 74,064; June 15; Gaz. vol. 143; p. 859.  
 Metals, Antifriction bearing. John Finn Metal Works. No. 74,986; Aug. 24; Gaz. vol. 145; p. 1018.  
 Metals, Certain. Syracuse Smelting Works. No. 74,355; July 6; Gaz. vol. 144; p. 271.  
 Metals, Certain. Leddell-Bigelow Company. No. 76,182; Dec. 21; Gaz. vol. 149; p. 830.  
 Metallic alloys. Metallic Alloys Co. No. 73,262; Apr. 6; Gaz. vol. 141; p. 282.  
 Metallic hose and tubing, Flexible. New York Flexible Metallic Hose and Tubing Company. No. 73,227; Mar. 30; Gaz. vol. 140; p. 1204.  
 Mezzani and spaghetti. S. Blum. No. 72,787; Feb. 23; Gaz. vol. 139; p. 985.  
 Microphones, Apparatus for improving the phonetic effect in. H. H. Berg-Jæger. No. 73,038; Mar. 9; Gaz. vol. 140; p. 503.  
 Milk. Kankakee Pure Milk & Cold Storage Co. No. 73,847; May 25; Gaz. vol. 142; p. 1110.  
 Milk and other foods, Ferment for. Lacto-Bacilline Company of New York. No. 73,151; Mar. 23; Gaz. vol. 140; p. 997.  
 Milk, Artificially-soured. H. L. Josephi & Company. No. 73,107; Mar. 16; Gaz. vol. 140; p. 752.  
 Milk, Condensed. Borden's Condensed Milk Co. No. 72,214; Jan. 12; Gaz. vol. 138; p. 523.  
 Milk, Condensed. Mohawk Condensed Milk Co. No. 72,462; Jan. 26; Gaz. vol. 138; p. 961.  
 Milk, Condensed. Genesee Valley Milk Products Company. No. 75,274; Sept. 21; Gaz. vol. 146; p. 715.  
 Milk, Condensed. Scio Condensed Milk Co. No. 75,412; Sept. 28; Gaz. vol. 146; p. 955.  
 Milk coolers and aerators. C. Skidd. No. 76,095; Dec. 14; Gaz. vol. 149; p. 598.  
 Milk, Evaporated. Helvetia Milk Condensing Company. Nos. 72,100-2; Jan. 5; Gaz. vol. 138; p. 251.  
 Milk, Evaporated. Cornell Bros. No. 75,040; Aug. 31; Gaz. vol. 145; p. 1245.  
 Milk, Evaporated. Elgin Milk & Cream Company. No. 75,696; Nov. 2; Gaz. vol. 148; p. 276.  
 Milk, Fermented. St. Louis Dairy Company. No. 74,164; June 22; Gaz. vol. 143; p. 1104.  
 Milk modifying and pasteurizing apparatus and parts thereof. Lactomode Co. No. 76,044; Dec. 7; Gaz. vol. 149; p. 306.  
 Milk, Preparation for the modification of. H. L. Lindt. No. 73,866; May 25; Gaz. vol. 142; p. 1110.  
 Milk, Scientifically-soured. Lacto-Bacilline Company. No. 73,592; May 4; Gaz. vol. 142; p. 283.  
 Milk, Sterilized evaporated. Federal Packing Co. No. 72,682; Feb. 9; Gaz. vol. 139; p. 459.

*Alphabetical list of trade-marks—Continued.*

- Milk-sugar. National Milk Sugar Company. No. 75,280; Sept. 21; Gaz. vol. 146; p. 715.  
Milk-sugar, Powdered. Milk By-Products Company. No. 72,802; Feb. 23; Gaz. vol. 139; p. 985.  
Milking-machines and parts thereof. D. H. Burrell & Co. No. 73,357; Apr. 13; Gaz. vol. 141; p. 562.  
Milling-stars. Ohio Malleable Iron Company. No. 75,169; Sept. 7; Gaz. vol. 146; p. 252.  
Molasses. Penick & Ford. No. 75,133; Sept. 7; Gaz. vol. 146; p. 251.  
Mop-wringers. Dana Manufacturing Company. No. 75,074; Aug. 31; Gaz. vol. 145; p. 1246.  
Mouth-wash. C. E. Hopkins. No. 74,096; June 15; Gaz. vol. 143; p. 860.  
Mouth-wash. E. Cudlipp. No. 75,960; Nov. 30; Gaz. vol. 148; p. 1340.  
Mouth-washes and liquid dentifrices. F. Kleinsorgen. No. 75,440; Oct. 5; Gaz. vol. 147; p. 231.  
Mouth-washes and liquid dentifrices. F. Kleinsorgen. No. 75,894; Nov. 23; Gaz. vol. 148; p. 1082.  
Mouth-washes and toothache medicines. K. Gruszka. No. 75,767; Nov. 16; Gaz. vol. 148; p. 827.  
Mowers, Lawn-. Marshall-Wells Hardware Co. No. 73,540; Apr. 27; Gaz. vol. 141; p. 1158.  
Music rolls, Perforated-. Standard Music Roll Co. No. 73,344; Apr. 13; Gaz. vol. 141; p. 562.  
Musical instruments, Certain. Thos. Goggan & Bros. No. 72,638; Feb. 9; Gaz. vol. 139; p. 458.  
Musical instruments, Certain. S. Buegeleisen. No. 74,758; Aug. 10; Gaz. vol. 145; p. 507.  
Musical instruments, Certain. Ludwig Hupfeld Aktien-Ges. No. 75,895; Nov. 23; Gaz. vol. 148; p. 1082.  
Musical strings. Bauer & Dürschmidt. No. 72,479; Jan. 26; Gaz. vol. 138; p. 961.  
Musical strings. Bauer & Dürschmidt. No. 74,117; June 22; Gaz. vol. 143; p. 1103.  
Mustard for use as a counter-irritant. Lohrman & Trapp. No. 73,895; June 1; Gaz. vol. 143; p. 253.  
Mustards, Prepared. A. Luedemann, Inc. No. 75,109; Sept. 7; Gaz. vol. 146; p. 251.  
Naphtha. Sun Company. No. 72,630; Feb. 9; Gaz. vol. 139; p. 458.  
Naphtha or petroleum spirit. Standard Oil Co. of New York. Nos. 72,109-10; Jan. 5; Gaz. vol. 138; p. 251.  
Neckties. M. Udowitsch. No. 74,243; June 29; Gaz. vol. 143; p. 1339.  
Neckties and scarfs. Stern and Whittaker. No. 74,702; Aug. 3; Gaz. vol. 145; p. 251.  
Needles, Sewing-. Henry Milward & Sons. No. 75,120; Sept. 7; Gaz. vol. 146; p. 251.  
Nets, Hair-. M. J. Carry. No. 74,063; June 15; Gaz. vol. 143; p. 859.  
Nets, Hair-. J. I. Gold. No. 74,066; June 15; Gaz. vol. 143; p. 860.  
Newspaper. Press Publishing Company. No. 72,670; Feb. 9; Gaz. vol. 139; p. 459.  
Newspaper. Sporting Life Publishing Company. No. 73,735; May 11; Gaz. vol. 142; p. 565.  
Newspaper. B. Peters & Co. No. 74,836; Aug. 10; Gaz. vol. 145; p. 509.  
Newspaper comic sections. Tribune Company. No. 76,219; Dec. 28; Gaz. vol. 149; p. 1115.  
Newspaper, Daily. Press Publishing Company. No. 72,671; Feb. 9; Gaz. vol. 139; p. 459.  
Newspapers. F. W. Sallet. No. 73,416; Apr. 20; Gaz. vol. 141; p. 861.  
Newspapers. Co-operative Printing Company. No. 75,779; Nov. 16; Gaz. vol. 148; p. 827.  
Newspapers, Comic sections or pages of. New York Herald Company. No. 72,301; Jan. 12; Gaz. vol. 138; p. 525.  
Night-lights. Strohmeier & Arpe Company. No. 72,504; Jan. 26; Gaz. vol. 138; p. 962.  
Night-robcs, pajamas, overshirts, undershirts, and drawers. E. Rosenfeld & Co. No. 72,574; Feb. 2; Gaz. vol. 139; p. 194.  
Non-alcoholic tonic beverages. W. B. Nethery. No. 72,160; Jan. 5; Gaz. vol. 138.  
Noodles. E. Goepfert. No. 76,073; Dec. 14; Gaz. vol. 149; p. 597.  
Noodles, macaroni, and spaghetti. A. C. Krumm & Son. No. 73,766; May 18; Gaz. vol. 142; p. 851.  
Noodles, macaroni, and spaghetti. Milwaukee Noodle Co. No. 75,610; Oct. 26; Gaz. vol. 147; p. 1031.  
Notions. William H. Cole & Co. No. 73,419; Apr. 20; Gaz. vol. 141; p. 861.  
Numbering-machines, Automatic. Bates Manufacturing Company. No. 75,922; Nov. 30; Gaz. vol. 148; p. 1339.  
Oats, Rolled. Corno Mills Company. No. 75,347; Sept. 21; Gaz. vol. 146; p. 717.  
Oats, Rolled. Beck Cereal Company. No. 76,137; Dec. 21; Gaz. vol. 149; p. 829.  
Oil and cod-liver-oil tablets, Castor-. O. K. Zwingenberger. No. 75,180; Sept. 7; Gaz. vol. 146; p. 253.  
Oil, Antiseptic healing-. A. Plough. No. 76,259; Dec. 28; Gaz. vol. 149; p. 1117.  
Oil, Antiseptic medicinal. Gregory Medicine Co. No. 72,486; Jan. 26; Gaz. vol. 138; p. 961.  
Oil, Boiled linseed-. Minnesota Linseed Oil Company. No. 73,574; May 4; Gaz. vol. 142; p. 283.  
Oil, Capsules containing alcoholic extract of cod-liver. Vial. No. 75,196; Sept. 14; Gaz. vol. 146; p. 501.  
Oil, Castor-. Mound City Paint & Color Company. No. 72,845; Mar. 2; Gaz. vol. 140; p. 249.  
Oil, Certain. A. Schmitz. No. 73,399; Apr. 13; Gaz. vol. 141; p. 563.  
Oil-cloth and linoleum varnish-like preservative. G. H. Baker. No. 72,266; Jan. 12; Gaz. vol. 138; p. 524.  
Oil, Cod-liver and castor. Allen & Hanburys Co. No. 73,967; June 8; Gaz. vol. 143; p. 557.  
Oil compound, Cocoanut-. India Refining Company. No. 74,315; July 6; Gaz. vol. 144; p. 271.  
Oil, Corn-. Corn Products Refining Company. No. 72,099; Jan. 5; Gaz. vol. 138; p. 251.  
Oil, Cotton-seed. American Cotton Oil Company. Nos. 72,084-5; Jan. 5; Gaz. vol. 138; p. 251.  
Oil, Cotton-seed. American Cotton Oil Company. No. 72,413; Jan. 26; Gaz. vol. 138; p. 959.  
Oil, Cotton-seed. American Cotton Oil Company. No. 72,777; Feb. 16; Gaz. vol. 139; p. 727.  
Oil, Cotton-seed. Robert B. Brown Oil Company. No. 74,150; June 22; Gaz. vol. 143; p. 1104.  
Oil, Cotton-seed. Aspegren & Co. No. 74,246; June 29; Gaz. vol. 143; p. 1340.  
Oil, Cotton-seed. Aspegren & Co. No. 75,269; Sept. 21; Gaz. vol. 146; p. 715.  
Oil, Cotton-seed. Robert B. Brown Oil Company. No. 75,322; Sept. 21; Gaz. vol. 146; p. 716.  
Oil, Cotton-seed. Procter & Gamble Company. Nos. 75,448-51; Oct. 5; Gaz. vol. 147; pp. 231-2.  
Oil, Cotton-seed oil for use as an illuminating-. American Cotton Oil Company. No. 72,853; Mar. 2; Gaz. vol. 140; p. 249.  
Oil, Crude menhaden fish-. Morris Fisher Co. No. 74,989; Aug. 24; Gaz. vol. 145; p. 1018.  
Oil, cycle-oil, and axle-grease, Sewing-machine. Baird Bros. & Co. No. 75,677; Nov. 2; Gaz. vol. 148; p. 275.  
Oil for use in soap-making and for industrial purposes only, Cotton-seed. American Cotton Oil Company. No. 72,531; Feb. 2; Gaz. vol. 139; p. 193.  
Oil, Grecian olive-. P. S. Pantazelos. No. 74,481; July 13; Gaz. vol. 144; p. 559.  
Oil, Illuminating-. E. M. Wilhoit. No. 74,895; Aug. 17; Gaz. vol. 145; p. 760.  
Oil intended for use as a salad-oil, Cotton-seed. American Cotton Oil Company. No. 72,442; Jan. 26; Gaz. vol. 138; p. 960.  
Oil intended for use as a salad-oil, Cotton-seed. Union Oil Company. No. 73,120; Mar. 16; Gaz. vol. 140; p. 752.  
Oil, Italian olive-. H. Polinsky. No. 72,806; Feb. 23; Gaz. vol. 139; p. 985.  
Oil, Italian olive-. Castruccio-Amestoy Co. No. 72,892; Mar. 2; Gaz. vol. 140; p. 249.  
Oil, Italian olive-. F. P. Ventrone. No. 74,977; Aug. 24; Gaz. vol. 145; p. 1018.  
Oil, Italian olive-. A. Servida. No. 75,709; Nov. 2; Gaz. vol. 148; p. 276.  
Oil, Italian olive-. Austin, Nichols & Co. No. 75,918; Nov. 30; Gaz. vol. 148; p. 1339.  
Oil, Lubricating-. Standard Oil Company. No. 73,457; Apr. 20; Gaz. vol. 141; p. 862.  
Oil, Lubricating-. Chas. H. Moore Oil Co. No. 75,202; Sept. 14; Gaz. vol. 146; p. 501.  
Oil, Lucca olive-. G. Rossano & Bro. No. 72,758; Feb. 16; Gaz. vol. 139; p. 726.  
Oil, Lucca olive-. New Granucci Grocery Co. No. 74,777; Aug. 10; Gaz. vol. 145; p. 507.  
Oil, macaroni, capers, &c., Olive-. Von Bremen, Asche & Co. No. 75,756; Nov. 9; Gaz. vol. 148; p. 566.  
Oil, Machine-. Lewis Bear Drug Company. No. 73,719; May 11; Gaz. vol. 142; p. 564.  
Oil, Neat's-foot-. F. S. Walton Company. No. 75,565; Oct. 19; Gaz. vol. 147; p. 767.  
Oil, Nut-. Naamloze Vennootschap Nederlandsche Naamloze Vennootschap Fransch-Hollandsche Oliefabrieken; Nouveaux Etablissements Calvé-Delft. No. 72,659; Feb. 9; Gaz. vol. 139; p. 458.  
Oil of violet, Synthetic. Schimmel & Co. No. 73,628; May 4; Gaz. vol. 142; p. 284.  
Oil, Olive-. J. C. Kubias. No. 73,519; Apr. 27; Gaz. vol. 141; p. 1158.  
Oil, Ol ve-. W. C. Gundelfinger Co. No. 73,772; May 18; Gaz. vol. 142; p. 851.  
Oil, Olive-. Scudders-Gale Grocer Co. No. 75,910; Nov. 23; Gaz. vol. 148; p. 1083.  
Oil, Peanut-. Naamloze Vennootschap Nederlandsche Naamloze Vennootschap Fransch-Hollandsche Oliefabrieken Nouveaux Etablissements Calvé-Delft. No. 75,579; Oct. 19; Gaz. vol. 147; p. 768.  
Oil product, Cocoanut-. India Refining Company. No. 74,253; June 29; Gaz. vol. 143; p. 1340.  
Oil, Raw linseed-. Minnesota Linseed Oil Company. No. 73,573; May 4; Gaz. vol. 142; p. 283.  
Oil used as a food, Cotton-seed. American Cotton Oil Company. Nos. 73,354-5; Apr. 13; Gaz. vol. 141; p. 562.  
Oil used as a food, Refined corn-. Wesson Company. No. 73,390; Apr. 13; Gaz. vol. 141; p. 563.  
Oil, Wood-preserving. Vaughan Paint Co. No. 74,106; June 15; Gaz. vol. 143; p. 861.  
Oil, Wood-preserving. Boykin Manufacturing Company. No. 75,555; Oct. 19; Gaz. vol. 147; p. 767.  
Oils and carbohydrates, Compound of oxidized essential. E. C. Getsinger. No. 72,712; Feb. 16; Gaz. vol. 139; p. 725.  
Oils and greases, Certain. Superior Refining Co. No. 75,519; Oct. 12; Gaz. vol. 147; p. 513.  
Oils and greases for leather and rubber, Preparation of. American Vitalizing Company. No. 75,350; Sept. 28; Gaz. vol. 146; p. 953.



*Alphabetical list of trade-marks—Continued.*

- Oils and greases, Lubricating. Packard Motor Car Company. Nos. 73,048-9; Mar. 9; Gaz. vol. 140; p. 503.  
 Oils and greases, Lubricating. W. S. Sheppard. No. 75,061; Aug. 31; Gaz. vol. 145; p. 1246.  
 Oils and greases, Lubricating. Bliven & Carrington. No. 75,356; Sept. 28; Gaz. vol. 146; p. 953.  
 Oils and greases, Lubricating. Atlantic Refining Company. No. 76,225; Dec. 28; Gaz. vol. 149; p. 1116.  
 Oils, greases, and waxes. Vacuum Oil Company. Nos. 75,976-7; Nov. 30; Gaz. vol. 148; p. 1340.  
 Oils intended for use as food, Cotton-seed. Southern Cotton Oil Company. No. 72,913; Mar. 2; Gaz. vol. 140; p. 251.  
 Oils, Lubricating-. Sun Company. Nos. 72,626-8; Feb. 9; Gaz. vol. 139; p. 457.  
 Oils, Lubricating-. Sun Company. Nos. 72,631-7; Feb. 9; Gaz. vol. 139; p. 458.  
 Oils, Lubricating-. Sun Company. No. 72,672; Feb. 9; Gaz. vol. 139; p. 459.  
 Oils, Lubricating-. American Oil Company. No. 72,854; Mar. 2; Gaz. vol. 140; p. 249.  
 Oils, Lubricating-. Singer Manufacturing Company. No. 74,992; Aug. 24; Gaz. vol. 145; p. 1018.  
 Oils, Substitute for linseed and cotton-seed. Sun Company. No. 72,629; Feb. 9; Gaz. vol. 139; p. 457.  
 Oils used for treating leather. Lubra-Oils Manufacturing Co. No. 74,181; June 22; Gaz. vol. 143; p. 1105.  
 Oiled cloth and linoleum, Zinc binding for. R. Hubbell. No. 74,730; Aug. 3; Gaz. vol. 145; p. 252.  
 Oiling and top-dressing roads, Materials for. P. C. Reilly. No. 73,958; June 1; Gaz. vol. 143; p. 255.  
 Oily preparation, Chemical yellowish. Farbwerke vorm. Meister Lucius & Brüning. No. 74,365; July 6; Gaz. vol. 144; p. 272.  
 Ointment. Ogden Pharmaceutical Company. No. 74,868; Aug. 17; Gaz. vol. 145; p. 759.  
 Ointment. Resinol Chemical Co. No. 75,258; Sept. 14; Gaz. vol. 146; p. 503.  
 Ointment, Eczema-. J. F. Petersen. No. 72,255; Jan. 12; Gaz. vol. 138; p. 524.  
 Ointment for catarrh. J. D. Delisle. No. 72,959; Mar. 9; Gaz. vol. 140; p. 501.  
 Ointment for diseases of the eyes. Chicago Pharmacal Co. No. 72,481; Jan. 26; Gaz. vol. 138; p. 961.  
 Ointment for external application. C. J. Britton. No. 72,957; Mar. 9; Gaz. vol. 140; p. 501.  
 Ointments. Wood Chemical Company. No. 74,674; July 27; Gaz. vol. 144; p. 1087.  
 Ointments, germicides, liniments, and hair-tonics. Rockwood Chemical Company. No. 75,983; Nov. 30; Gaz. vol. 148; p. 1340.  
 Olive salad and corn-starch. Griggs, Cooper & Co. No. 75,937; Nov. 30; Gaz. vol. 148; p. 1339.  
 Olives and stuffed olives. Colin D. Mawer Company. No. 74,498; July 20; Gaz. vol. 144; p. 813.  
 Olives, mustard, capers, and pickles. Alart & McGuire. No. 73,988; June 8; Gaz. vol. 143; p. 557.  
 Oranges. California Fruit Growers Exchange. No. 72,087; Jan. 5; Gaz. vol. 138; p. 251.  
 Oranges and grape-fruit. E. P. Porcher. No. 72,232; Jan. 12; Gaz. vol. 138; p. 523.  
 Oranges and lemons. Randolph Fruit Company. Nos. 72,338-40; Jan. 19; Gaz. vol. 138; p. 764.  
 Oranges and lemons. Randolph Fruit Company. Nos. 72,588-9; Feb. 2; Gaz. vol. 139; p. 195.  
 Oranges and lemons. Randolph Fruit Company. No. 72,909; Mar. 2; Gaz. vol. 140; p. 251.  
 Oranges, grape-fruit, tangerines, and lemons. Azusa Foot-Hill Citrus Association. Nos. 75,920-1; Nov. 30; Gaz. vol. 148; p. 1339.  
 Overalls. I. Sacks. No. 72,810; Feb. 23; Gaz. vol. 139; p. 986.  
 Overalls. J. Rashbaum Sons. No. 75,320; Sept. 21; Gaz. vol. 146; p. 716.  
 Overalls. Ely & Walker Dry Goods Co. No. 76,228; Dec. 28; Gaz. vol. 149; p. 1116.  
 Overalls and jackets. R. L. McDonald Mfg. Co. No. 74,298; June 29; Gaz. vol. 143; p. 1341.  
 Overalls, coats, and trousers. Sweet, Orr & Company. No. 74,749; Aug. 3; Gaz. vol. 145; p. 253.  
 Overalls, duck coats, outer shirts, &c. Carter & Churchill Co. No. 74,881; Aug. 17; Gaz. vol. 145; p. 760.  
 Overalls, jackets, and working-shirts. J. Gross. No. 72,616; Feb. 9; Gaz. vol. 139; p. 457.  
 Overalls, jumpers, blouses, &c. Eloesser Heynemann Co. No. 74,923; Aug. 17; Gaz. vol. 145; p. 761.  
 Overalls, work-shirts, jumpers, &c. Maxwell-McClure Fitts Dry Goods Co. No. 75,727; Nov. 9; Gaz. vol. 148; p. 565.  
 Overcoats, coats, vests, and trousers. Block Brothers Clothing Company. No. 73,410; Apr. 20; Gaz. vol. 141; p. 861.  
 Overcoats, coats, vests, and trousers. Solomon Bros. & Lempert. No. 74,894; Aug. 17; Gaz. vol. 145; p. 760.  
 Oxygen, Chemical substances for preparing. Société l'Oxylythe. No. 74,160; June 22; Gaz. vol. 143; p. 1104.  
 Oxygen preparation. Morgenstern & Company. No. 75,982; Nov. 30; Gaz. vol. 148; p. 1340.  
 Oyster-juice. H. Wilcox. No. 74,514; July 20; Gaz. vol. 144; p. 813.  
 Oysters, Fresh. Forest City Oyster Company. No. 73,442; Apr. 20; Gaz. vol. 141; p. 862.  
 Oysters, fruits, and vegetables. J. H. Collison. No. 73,991; June 8; Gaz. vol. 143; p. 557.  
 Oysters, fruits, and vegetables in sealed receptacles. Miller Bros. & Co. No. 75,405; Sept. 28; Gaz. vol. 146; p. 954.  
 Oysters, Raw. W. L. Ellis & Co. No. 72,484; Jan. 26; Gaz. vol. 138; p. 961.  
 Pacifiers. L. A. Boettiger. No. 75,688; Nov. 2; Gaz. vol. 148; p. 276.  
 Packing and jointing materials. Turner Bros. No. 75,735; Nov. 9; Gaz. vol. 148; p. 565.  
 Packing, Asbestos. Manhattan Supply Company. No. 73,950; June 1; Gaz. vol. 143; p. 254.  
 Packing, Asbestos and mica steam-. R. G. von Kokeritz & Co. No. 73,781; May 18; Gaz. vol. 142; p. 852.  
 Packing, Composition. Darling Pump & Mfg. Co. No. 73,160; Mar. 23; Gaz. vol. 140; p. 997.  
 Packing, Composition steam-. Plant Rubber & Supply Co. No. 73,142; Mar. 16; Gaz. vol. 140; p. 753.  
 Packing containing asbestos, Composition machinery. Peerless Rubber Manufacturing Company. No. 72,880; Mar. 2; Gaz. vol. 140; p. 249.  
 Packing, Engine and machinery. American Steam Packing Company. No. 73,696; May 11; Gaz. vol. 142; p. 564.  
 Packing, Machinery. Peerless Rubber Manufacturing Company. No. 72,566; Feb. 2; Gaz. vol. 139; p. 194.  
 Packing, Machinery. Peerless Rubber Manufacturing Company. No. 72,689; Feb. 9; Gaz. vol. 139; p. 459.  
 Packing, Machinery. New York Belting and Packing Company. Nos. 73,019-20; Mar. 9; Gaz. vol. 140; pp. 502-3.  
 Packing, Pipe-joint. American Manufacturing Company. No. 73,633; May 4; Gaz. vol. 142; p. 284.  
 Packing, Rubber, leather, asbestos, and metal. F. Burgmann. No. 73,057; Mar. 9; Gaz. vol. 140; p. 504.  
 Packings, Fibrous. F. Burgmann. No. 73,774; May 18; Gaz. vol. 142; p. 852.  
 Packings, pump-valves, gaskets, &c. Consolidated Packing & Supply Co. No. 73,776; May 18; Gaz. vol. 142; p. 852.  
 Padlocks, night-latches, and door-locks. E. T. Fraim Lock Company. No. 73,616; May 4; Gaz. vol. 142; p. 284.  
 Paint. R. G. von Kokeritz & Co. No. 72,873; Mar. 2; Gaz. vol. 140; p. 249.  
 Paint. Spiritine Chemical Co. No. 74,103; June 15; Gaz. vol. 143; p. 861.  
 Paint. B. Hammond. No. 75,571; Oct. 19; Gaz. vol. 147; p. 767.  
 Paint and varnish brush. Rennous Kleinle & Co. of Baltimore City. No. 72,256; Jan. 12; Gaz. vol. 138; p. 524.  
 Paint and wood-filler. Mathews Bros. No. 74,523; July 20; Gaz. vol. 144; p. 813.  
 Paint, Cold-water. Muralo Company. Nos. 72,377-8; Jan. 19; Gaz. vol. 138; p. 765.  
 Paint, Copper. C. A. Woolsey Paint & Color Company. No. 75,302; Sept. 21; Gaz. vol. 146; p. 716.  
 Paint, Enamel. C. H. Mueller. No. 74,630; July 27; Gaz. vol. 144; p. 1086.  
 Paint, Enamel. Le Ripolin (Société Anonyme Française de peintures laquées et d'enduits sous-marins, procédés Lefranc & Briegleb réunis.) No. 74,929; Aug. 17; Gaz. vol. 145; p. 761.  
 Paint, Floor-. A. Burdsal Company. No. 72,852; Mar. 2; Gaz. vol. 140; p. 249.  
 Paint for metal surfaces. Louisville Paint Mfg. Co. No. 73,805; May 18; Gaz. vol. 142; p. 852.  
 Paint for the prevention of rust in metals. Vatudrip Company. No. 74,301; June 29; Gaz. vol. 143; p. 1341.  
 Paint, Oil wall-. Muralo Company. No. 72,376; Jan. 19; Gaz. vol. 138; p. 765.  
 Paint-remover. Wadsworth, Howland & Co. No. 74,214; June 22; Gaz. vol. 143; p. 1106.  
 Paint, Roof and metal. Dow & Webb. No. 75,695; Nov. 2; Gaz. vol. 148; p. 276.  
 Paint, varnish, and stain remover. New Amsterdam Renovating Co. No. 74,833; Aug. 10; Gaz. vol. 145; p. 509.  
 Paint, Water-. Silicate Paint Company J. B. Orr and Company. No. 75,490; Oct. 5; Gaz. vol. 147; p. 233.  
 Paint, white lead, white zinc, and varnishes, House-. Warren Paint Company. No. 73,056; Mar. 9; Gaz. vol. 140; p. 504.  
 Paints. Major and Company. No. 74,182; June 22; Gaz. vol. 143; p. 1105.  
 Paints. J. C. Williams. No. 74,845; Aug. 10; Gaz. vol. 145; p. 509.  
 Paints and enamels. Holzapfels Limited. No. 74,984; Aug. 24; Gaz. vol. 145; p. 1018.  
 Paints and enamels. A. Salomon. No. 76,033; Dec. 7; Gaz. vol. 149; p. 306.  
 Paints, Asphalt-base. Paraffine Paint Co. No. 73,396; Apr. 13; Gaz. vol. 141; p. 563.  
 Paints, Certain. Gerstendorfer Bros. No. 73,799; May 18; Gaz. vol. 142; p. 852.  
 Paints, colors, varnishes, and enamels, Artists'. Duggan Neel & McColm. No. 72,534; Feb. 2; Gaz. vol. 139; p. 193.  
 Paints, Dry pigments for use in making. Pomeroy & Fischer. No. 73,872; May 25; Gaz. vol. 142; p. 1110.  
 Paints, Enamel. Remien & Kuhnert Co. No. 73,782; May 18; Gaz. vol. 142; p. 852.  
 Paints, Enamel. Geo. D. Wetherill & Co. No. 75,802; Nov. 16; Gaz. vol. 148; p. 828.  
 Paints, Enamel. Gerstendorfer Bros. No. 76,205; Dec. 28; Gaz. vol. 149; p. 1115.  
 Paints, Oil-. National Paint and Varnish Company. No. 74,475; July 13; Gaz. vol. 144; p. 559.  
 Paints, Ready-mixed. H. W. Buckner. No. 73,569; May 4; Gaz. vol. 142; p. 283.  
 Paints, varnishes, lacquers, &c. Ernecke & Salmstein Co. No. 75,306; Sept. 21; Gaz. vol. 146; p. 716.  
 Paints, white zinc, and pigments. John T. Lewis & Bros. Company. No. 74,731; Aug. 3; Gaz. vol. 145; p. 252.  
 Painters' materials. Mound City Paint & Color Company. No. 74,473; July 13; Gaz. vol. 144; p. 559.

*Alphabetical list of trade-marks—Continued.*

- Painters' materials, Certain. Pomeroy & Fischer. No. 73,955; June 1; Gaz. vol. 143; p. 255.  
 Painters' materials, Certain. Standard Varnish Works. No. 74,212; June 22; Gaz. vol. 143; p. 1106.  
 Painting, Gold preparations for vitrifiable. John W. Hasburg Company. No. 73,260; Apr. 6; Gaz. vol. 141; p. 282.  
 Pajamas, One-piece. R. Bardenheuer. No. 74,754; Aug. 10; Gaz. vol. 145; p. 507.  
 Pants and double-breasted outer suits, Boys' knees. J. Klein Company. No. 75,940; Nov. 30; Gaz. vol. 148; p. 1339.  
 Paper. J. C. Blair Company. No. 72,537; Feb. 2; Gaz. vol. 139; p. 193.  
 Paper. Hawley Pulp and Paper Company. No. 73,007; Mar. 9; Gaz. vol. 140; p. 502.  
 Paper. L. L. Brown Paper Company. No. 74,072; June 15; Gaz. vol. 143; p. 860.  
 Paper and blank books, Certain. J. C. Blair Company. No. 73,205; Mar. 30; Gaz. vol. 140; p. 1203.  
 Paper and envelopes. Twin City Paper Company. No. 75,413; Sept. 28; Gaz. vol. 146; p. 955.  
 Paper and envelopes, Writing-. Britains Limited. No. 74,010; June 8; Gaz. vol. 143; p. 558.  
 Paper and envelopes, Writing-. J. E. Linde Paper Company. No. 74,821; Aug. 10; Gaz. vol. 145; p. 509.  
 Paper and inked ribbons, Carbon-. Unicus Carbon Paper Co. No. 75,521; Oct. 12; Gaz. vol. 147; p. 513.  
 Paper and stationery, Certain. Blackwell-Wielandy Book and Stationery Company. No. 75,427; Oct. 5; Gaz. vol. 147; p. 231.  
 Paper bags. Wayne Paper Mills. No. 72,696; Feb. 9; Gaz. vol. 139; p. 459.  
 Paper bags. E-Z Opener Bag Company. Nos. 73,817-22; May 25; Gaz. vol. 142; p. 1109.  
 Paper bags. E-Z Opener Bag Company. Nos. 73,834-8; May 25; Gaz. vol. 142; p. 1109.  
 Paper bags. Union Bag and Paper Company. No. 74,618; July 27; Gaz. vol. 144; p. 1086.  
 Paper bags. Cleveland-Akron Bag Co. No. 74,719; Aug. 3; Gaz. vol. 145; p. 252.  
 Paper bags. Eagle Paper Company. Nos. 75,043-5; Aug. 31; Gaz. vol. 145; p. 1245.  
 Paper bags. Cleveland-Akron Bag Co. No. 75,431; Oct. 5; Gaz. vol. 147; p. 231.  
 Paper bags. Schorsch & Co. No. 76,216; Dec. 28; Gaz. vol. 149; p. 1115.  
 Paper, Blotting-. Albemarle Paper Manufacturing Company. No. 72,083; Jan. 5; Gaz. vol. 138; p. 251.  
 Paper, Blotting-. Albemarle Paper Manufacturing Company. No. 72,402; Jan. 26; Gaz. vol. 138; p. 959.  
 Paper, Bond-. Cady Paper Company. No. 72,533; Feb. 2; Gaz. vol. 139; p. 193.  
 Paper, Bond-. Benedict Paper Co. No. 74,336; July 6; Gaz. vol. 144; p. 272.  
 Paper, Bond-. T. Barrett & Son. No. 74,718; Aug. 3; Gaz. vol. 145; p. 252.  
 Paper, Bond and flat writing-. Benedict Paper Company. No. 73,932; June 1; Gaz. vol. 143; p. 254.  
 Paper boxes, Folded. P. A. Sims. No. 73,223; Mar. 30; Gaz. vol. 140; p. 1204.  
 Paper, Carbon-. De-FI Manufacturing Co. No. 73,511; Apr. 27; Gaz. vol. 141; p. 1157.  
 Paper, Carbon-. Pen-Carbon Manifold Co. No. 75,670; Nov. 2; Gaz. vol. 148; p. 275.  
 Paper, Certain. J. C. Blair Company. No. 72,371; Jan. 19; Gaz. vol. 138; p. 764.  
 Paper, Certain named. James White Paper Company. No. 75,121; Sept. 7; Gaz. vol. 146; p. 251.  
 Paper, Cover-. Keith Paper Company. No. 76,123; Dec. 14; Gaz. vol. 149; p. 598.  
 Paper, envelopes, and blank books. J. C. Blair Company. No. 72,769; Feb. 16; Gaz. vol. 139; p. 727.  
 Paper, envelopes, and cardboard, Writing and printing. Union Card & Paper Co. No. 72,949; Mar. 2; Gaz. vol. 140; p. 252.  
 Paper, envelopes, and cardboard, Writing and printing. Union Card & Paper Co. No. 73,567; Apr. 27; Gaz. vol. 141; p. 1159.  
 Paper, envelopes, and paperies. Birnie Paper Company. Nos. 74,170-1; June 22; Gaz. vol. 143; p. 1104.  
 Paper, envelopes, tablets, and blank books. J. C. Blair Company. No. 73,681; May 11; Gaz. vol. 142; p. 563.  
 Paper, envelopes, tablets, and blank books. J. C. Blair Company. Nos. 73,800-2; May 18; Gaz. vol. 142; p. 852.  
 Paper, envelopes, tablets, and blank books. J. C. Blair Company. No. 73,863; May 25; Gaz. vol. 142; p. 1110.  
 Paper, envelopes, tablets, and blank books. J. C. Blair Company. No. 74,177; June 22; Gaz. vol. 143; p. 1105.  
 Paper, envelopes, tablets, and blank books. J. C. Blair Company. Nos. 74,625-6; July 27; Gaz. vol. 144; p. 1086.  
 Paper, envelopes, tablets, and blank books. J. C. Blair Company. No. 75,314; Sept. 21; Gaz. vol. 146; p. 716.  
 Paper, envelopes, tablets, and blank books. J. C. Blair Company. Nos. 75,437-9; Oct. 5; Gaz. vol. 147; p. 231.  
 Paper, envelopes, tablets, and blank books. J. C. Blair Company. Nos. 75,574-5; Oct. 19; Gaz. vol. 147; p. 767.  
 Paper, envelopes, tablets, and blank books. J. C. Blair Company. No. 75,645; Oct. 26; Gaz. vol. 147; p. 1032.  
 Paper, envelopes, tablets, and blank books. J. C. Blair Company. No. 75,667; Nov. 2; Gaz. vol. 148; p. 275.  
 Paper for writing and printing purposes. J. C. Blair Company. Nos. 75,002-3; Aug. 24; Gaz. vol. 145; p. 1018.  
 Paper, Monthly form. Currier Publishing Co. No. 72,267; Jan. 12; Gaz. vol. 138; p. 524.  
 Paper napkins, Crape-. Japanese Tissue Mills. Nos. 74,178-9; June 22; Gaz. vol. 143; p. 1105.  
 Paper, Roofing-. Fisher Bros. Paper Company. No. 75,047; Aug. 31; Gaz. vol. 145; p. 1245.  
 Paper, Safety-. Perfect Safety Paper Co. No. 73,479; Apr. 20; Gaz. vol. 141; p. 863.  
 Paper, Safety-. George La Monte & Son. No. 75,186; Sept. 14; Gaz. vol. 146; p. 501.  
 Paper, Sheathing-. Ford Manufacturing Co. No. 73,940; June 1; Gaz. vol. 143; p. 254.  
 Paper, Sheathing-. Ford Manufacturing Company. Nos. 75,783-4; Nov. 16; Gaz. vol. 148; p. 827.  
 Paper-testing machines. B. F. Perkins & Son. No. 72,681; Feb. 9; Gaz. vol. 139; p. 459.  
 Paper, Toilet-. Kingsley Paper Co. No. 74,305; June 29; Gaz. vol. 143; p. 1341.  
 Paper, White and colored writing-. R. C. Osburn. No. 72,930; Mar. 2; Gaz. vol. 140; p. 252.  
 Paper, Wrapping-. Union Paper & Twine Co. No. 73,568; Apr. 27; Gaz. vol. 141; p. 1159.  
 Paper, Writing-. Esleek Manufacturing Co. No. 73,561; Apr. 27; Gaz. vol. 141; p. 1159.  
 Paper, Writing-. Keith Paper Company. No. 75,577; Oct. 19; Gaz. vol. 147; p. 767.  
 Paper, Writing and printing. J. C. Blair Company. No. 74,904; Aug. 17; Gaz. vol. 145; p. 760.  
 Paper, Writing and printing. Union Card & Paper Co. No. 75,408; Sept. 28; Gaz. vol. 146; p. 954.  
 Paper, Writing and printing. Union Card & Paper Co. No. 75,414; Sept. 28; Gaz. vol. 146; p. 955.  
 Paper, Writing and printing. Union Card & Paper Co. No. 75,831; Nov. 16; Gaz. vol. 148; p. 829.  
 Paper, Writing, printing, and book. East Hartford Manufacturing Company. No. 75,115; Sept. 7; Gaz. vol. 146; p. 251.  
 Paper, Writing, printing, bond, book, &c. East Hartford Manufacturing Company. No. 75,682; Nov. 2; Gaz. vol. 148; p. 275.  
 Papers, Certain named. Taylor-Burt Co. No. 75,140; Sept. 7; Gaz. vol. 146; p. 252.  
 Papers, Cover-. C. H. Dexter & Sons. No. 73,194; Mar. 30; Gaz. vol. 140; p. 1203.  
 Papers, Printing and writing. Baughman Stationery Co. No. 72,532; Feb. 2; Gaz. vol. 139; p. 193.  
 Papers, Printing, wrapping, writing, ledger, and bond. Minneapolis Paper Co. No. 72,375; Jan. 19; Gaz. vol. 138; p. 765.  
 Papers, Waterproof roofing and building. Paraffine Paint Co. No. 75,095; Aug. 31; Gaz. vol. 145; p. 1247.  
 Papers, Writing and wrapping. Hollingsworth & Whitney Company. No. 72,536; Feb. 2; Gaz. vol. 139; p. 193.  
 Patterns, Transferable. W. P. Webber. No. 75,822; Nov. 16; Gaz. vol. 148; p. 829.  
 Pavements and sidewalks, Bituminous and concrete. American Paving & Manufacturing Company. No. 76,098; Dec. 14; Gaz. vol. 149; p. 598.  
 Pavements, Wood-block. P. C. Reilly. No. 74,891; Aug. 17; Gaz. vol. 145; p. 760.  
 Paving composition. Amies Asphalt Company. No. 75,658; Nov. 2; Gaz. vol. 148; p. 275.  
 Peanut-butter. Rood Candy Co. No. 74,052; June 15; Gaz. vol. 143; p. 859.  
 Peanuts. Suffolk Peanut Co. No. 75,326; Sept. 21; Gaz. vol. 146; p. 716.  
 Peanuts. Suffolk Peanut Co. Nos. 75,517-18; Oct. 12; Gaz. vol. 147; p. 513.  
 Peanuts and peanut-butter, Blanched and salted. E. D. Cook & Co. No. 73,795; May 18; Gaz. vol. 142; p. 852.  
 Pear-juice. W. A. Wolf. No. 73,740; May 11; Gaz. vol. 142; p. 565.  
 Pens, Lead-pencils, and penholders, Metal writing-. Aluminum Pen Company. No. 74,112; June 22; Gaz. vol. 143; p. 1103.  
 Pens, rulers, writing-papers, and envelopes, Reservoir and fountain. Thomas De La Rue & Company. No. 74,488; July 13; Gaz. vol. 144; p. 559.  
 Pens, Steel. J. Gillott & Sons. No. 74,587; July 27; Gaz. vol. 144; p. 1085.  
 Pens, Stylographic and fountain. Simpson & Harvey. No. 73,565; Apr. 27; Gaz. vol. 141; p. 1159.  
 Pens, Writing-. Turner and Harrison Pen Manufacturing Company. No. 73,145; Mar. 16; Gaz. vol. 140; p. 753.  
 Pencil-point protectors, lumber-leads, crayons, &c. Eagle Pencil Company. No. 75,393; Sept. 28; Gaz. vol. 146; p. 954.  
 Pencils, Certain. Bleistiftfabrik vormals Johann Faber Actien-Gesellschaft. No. 72,352; Jan. 19; Gaz. vol. 138; p. 764.  
 Pencils, ink, and erasers. A. W. Faber. No. 76,049; Dec. 7; Gaz. vol. 149; p. 307.  
 Pencils, Lead-. American Lead Pencil Company. Nos. 74,113-14; June 22; Gaz. vol. 143; p. 1103.  
 Pencils, Lead-. Eagle Pencil Company. No. 74,585; July 27; Gaz. vol. 144; p. 1085.  
 Pencils, Lead-. Eagle Pencil Company. No. 74,722; Aug. 3; Gaz. vol. 145; p. 252.  
 Pencils, Lead-. R. Best. No. 74,997; Aug. 24; Gaz. vol. 145; p. 1018.  
 Pencils, Lead and colored. A. W. Faber. No. 72,359; Jan. 19; Gaz. vol. 138; p. 764.  
 Pencils, pencil-cases, penholders, and pen-cases. Alkin-Lambert Company. No. 75,657; Nov. 2; Gaz. vol. 148; p. 275.  
 Pencils, penholders, and pencil-point protectors, Lead-. Eberhard Faber Pencil Co. No. 73,468; Apr. 20; Gaz. vol. 141; p. 863.  
 Penholders. American Lead Pencil Company. Nos. 73,691-3; May 11; Gaz. vol. 142; p. 564.  
 Penholders. American Lead Pencil Company. No. 75,289; Sept. 21; Gaz. vol. 146; p. 715.



*Alphabetical list of trade-marks—Continued.*

- Pepper, spices, and tapioca. Parrish Brothers. No. 76,185; Dec. 21; Gaz. vol. 149; p. 830.
- Percales and canton-flannels. Tootle, Wheeler & Motter Mercantile Company. No. 73,555; Apr. 27; Gaz. vol. 141; p. 1159.
- Percales, batistes, and canton-flannels. Tootle, Wheeler & Motter Mercantile Company. No. 73,566; Apr. 27; Gaz. vol. 141; p. 1159.
- Percolators and filters. C. A. Stelle. No. 75,734; Nov. 9; Gaz. vol. 148; p. 565.
- Perfume and toilet water. Mülhens & Kropff. No. 74,565; July 20; Gaz. vol. 144; p. 815.
- Perfumes. Crown Perfumery Company. No. 72,834; Mar. 2; Gaz. vol. 140; p. 249.
- Perfumes. Colgate Co. No. 75,617; Oct. 26; Gaz. vol. 147; p. 1031.
- Perfumes and toilet waters. A. J. Hilbert & Co. No. 72,238; Jan. 12; Gaz. vol. 138; p. 523.
- Perfumes and toilet waters. Colgate & Co. No. 73,673; May 11; Gaz. vol. 142; p. 563.
- Perfumes, toilet cream, toilet water, hair-tonic, and face-powder. Frederick Stearns & Co. No. 73,618; May 4; Gaz. vol. 142; p. 284.
- Perfumes, toilet water, and toilet and sachet powder. D. R. Bradley & Son. No. 74,126; June 22; Gaz. vol. 143; p. 1103.
- Perfumes, toilet water, sachet and toilet powder. D. R. Bradley & Son. Nos. 72,835-6; Mar. 2; Gaz. vol. 140; p. 249.
- Perfumes, toilet water, toilet, sachet, and talc powder. D. R. Bradley & Son. No. 74,271; June 29; Gaz. vol. 143; p. 1340.
- Perfumes, Violet. Schimmel & Co. Nos. 72,973-5; Mar. 9; Gaz. vol. 140; p. 501.
- Perfumes, Violet. Schimmel & Co. No. 73,343; Apr. 13; Gaz. vol. 141; p. 562.
- Perfumeries. E. Moulié. No. 75,624; Oct. 26; Gaz. vol. 147; p. 1031.
- Perfumery. J. Touzeau Saunders Limited. No. 73,620; May 4; Gaz. vol. 142; p. 284.
- Perfumery. Geo. Borgfeldt & Co. No. 75,666; Nov. 2; Gaz. vol. 148; p. 275.
- Perfumery. J. Palazzolo. No. 75,771; Nov. 16; Gaz. vol. 148; p. 827.
- Perfumery. S. Hudes. No. 75,893; Nov. 23; Gaz. vol. 148; p. 1082.
- Perfumery, face and toilet powder, and toilet cream. A. F. Haddad. No. 74,132; June 22; Gaz. vol. 143; p. 1103.
- Periodicals, Trade. Goldschmidt Thermit Company. No. 72,362; Jan. 19; Gaz. vol. 138; p. 764.
- Petroleum products. Texas Company. No. 76,131; Dec. 14; Gaz. vol. 149; p. 599.
- Petroleum, Refined. Standard Oil Co. of New York. No. 76,188; Dec. 21; Gaz. vol. 149; p. 830.
- Petroleum spirits for automobiles. Asiatic Petroleum Company. No. 74,007; June 8; Gaz. vol. 143; p. 558.
- Petticoats. W. H. Allen. No. 75,834; Nov. 23; Gaz. vol. 148; p. 1081.
- Petticoats, dress-skirts, and underskirts. Hirsch & Morgan Co. No. 75,573; Oct. 19; Gaz. vol. 147; p. 767.
- Petticoats, Ladies' cotton. S. Kraft. No. 72,555; Feb. 2; Gaz. vol. 139; p. 194.
- Pharmaceutical preparation. F. V. B. Gildersleeve. No. 73,893; June 1; Gaz. vol. 143; p. 253.
- Pharmaceutical preparations, Certain. G. F. Smith. No. 72,258; Jan. 12; Gaz. vol. 138; p. 524.
- Pharmaceutical preparations, Certain. H. B. Claffin Company. No. 75,251; Sept. 14; Gaz. vol. 146; p. 503.
- Pharmaceutical preparations, Certain. H. S. Wellcome. No. 75,329; Sept. 21; Gaz. vol. 146; p. 716.
- Phenol and formaldehyde, Condensation products of. L. H. Baekeland. No. 75,266; Sept. 14; Gaz. vol. 146; p. 503.
- Phonograph-records. National Phonograph Company. No. 72,560; Feb. 2; Gaz. vol. 139; p. 194.
- Phonographs and phonograph-horns. National Phonograph Company. No. 75,512; Oct. 12; Gaz. vol. 147; p. 513.
- Phonographs, phonograph parts and records. National Phonograph Company. No. 74,476; July 13; Gaz. vol. 144; p. 559.
- Photographic apparatus and supplies. Bingham Company. No. 74,268; June 29; Gaz. vol. 143; p. 1340.
- Photographic cameras and attachments. Multiscope and Film Company. No. 75,872; Nov. 23; Gaz. vol. 148; p. 1082.
- Photographic developing-powder. C. L. Mitchell. No. 76,047; Dec. 7; Gaz. vol. 149; p. 306.
- Photographic magazine published yearly. American Annual of Photography. No. 72,781; Feb. 23; Gaz. vol. 139; p. 985.
- Photographic materials, Sensitized. Positype Company. No. 73,381; Apr. 13; Gaz. vol. 141; p. 563.
- Photographic materials, Sensitized. Positype Company. No. 73,397; Apr. 13; Gaz. vol. 141; p. 563.
- Photographic nitrocellulose, varnish, and collodion. Ansco Company. No. 72,980; Mar. 9; Gaz. vol. 140; p. 501.
- Photographic paper. Ansco Company. No. 72,478; Jan. 26; Gaz. vol. 138; p. 961.
- Photographic-printing plates. B. S. Krupp. No. 75,863; Nov. 23; Gaz. vol. 148; p. 1082.
- Photographic screen holders and printing frames. Ansco Company. No. 74,335; July 6; Gaz. vol. 144; p. 271.
- Photographs and reproductions of photographs. W. M. Johnson. No. 73,333; Apr. 13; Gaz. vol. 141; p. 561.
- Photography, Sensitive plates and films for color. Société Anonyme des Plaques et Papiers Photographiques A Lumière et ses Fils. No. 75,948; Nov. 30; Gaz. vol. 148; p. 1340.
- Physical devices and instruments for treating fluids with radio-active preparations. Radiogen-Gesellschaft, m. b. H. No. 73,648; May 4. Gaz. vol. 142; p. 285.
- Piano, furniture, and wood polish. H. A. Stricker. No. 73,430; Apr. 20; Gaz. vol. 141; p. 861.
- Piano mechanism, Interior player-. Regal Piano & Player Co. No. 72,622; Feb. 9; Gaz. vol. 139; p. 457.
- Pianos. Weaver Organ & Piano Co. Nos. 72,135-6; Jan. 5; Gaz. vol. 138; p. 252.
- Pianos. Braumuller Piano Company. No. 72,141; Jan. 5; Gaz. vol. 138; p. 252.
- Pianos. Bush & Gerts Piano Co. No. 72,353; Jan. 19; Gaz. vol. 138; p. 764.
- Pianos. Conway Company. No. 72,356; Jan. 19; Gaz. vol. 138; p. 764.
- Pianos. Paul G. Mehlin & Sons. No. 72,564; Feb. 2; Gaz. vol. 139; p. 194.
- Pianos. Chickering & Sons. No. 73,672; May 11; Gaz. vol. 142; p. 563.
- Pianos. Jewett Piano Co. No. 75,122; Sept. 7; Gaz. vol. 146; p. 251.
- Pianos. S. W. Miller Piano Co. No. 75,287; Sept. 21; Gaz. vol. 146; p. 715.
- Pianos. Bjur Bros. Co. Nos. 75,296-8; Sept. 21; Gaz. vol. 146; p. 715.
- Pianos. Bjur Bros. Co. No. 75,354; Sept. 28; Gaz. vol. 146; p. 953.
- Pianos. S. Block. No. 75,357; Sept. 28; Gaz. vol. 146; p. 953.
- Pianos. Davies & Sons. No. 75,600; Oct. 26; Gaz. vol. 147; p. 1031.
- Pianos. Boardman & Gray. No. 75,913; Nov. 23; Gaz. vol. 148; p. 1083.
- Pianos. Christman Sons. No. 76,203; Dec. 28; Gaz. vol. 149; p. 1115.
- Pianos and organs. S. N. Swan. Nos. 73,388-9; Apr. 13; Gaz. vol. 141; p. 563.
- Pianos and organs. Lyon & Healy. No. 75,608; Oct. 26; Gaz. vol. 147; p. 1031.
- Pianos and piano-players. Shaw Piano Co. No. 75,614; Oct. 26; Gaz. vol. 147; p. 1031.
- Pianos and piano-players. C. M. Stieff. No. 75,615; Oct. 26; Gaz. vol. 147; p. 1031.
- Pianos and pianofortes. Schomacker Piano Forte Manufacturing Co. No. 72,174; Jan. 5; Gaz. vol. 138; p. 253.
- Pianos and player-pianos. Columbus Piano Co. No. 72,355; Jan. 19; Gaz. vol. 138; p. 764.
- Pianos and player-pianos. Huntington Piano Co. No. 72,551; Feb. 2; Gaz. vol. 139; p. 194.
- Pianos and player-pianos. Sterling Co. No. 72,576; Feb. 2; Gaz. vol. 139; p. 194.
- Pianos and player-pianos. Aeolian Company. Nos. 74,959-60; Aug. 24; Gaz. vol. 145; p. 1017.
- Pianos, organs, and automatic piano-players. A. B. Chase Company. No. 72,612; Feb. 9; Gaz. vol. 139; p. 457.
- Pianos, organs, and piano-players. P. B. Klugh. No. 75,715; Nov. 9; Gaz. vol. 148; p. 565.
- Pianos, organs, guitars, mandolins, and banjos. Thos. Goggan & Bros. No. 72,812; Feb. 23; Gaz. vol. 139; p. 986.
- Pianos, player-pianos, pipe-organs, and reed-organs. Will A. Watkin Company. No. 74,787; Aug. 10; Gaz. vol. 145; p. 508.
- Pianofortes. C. Bechstein. No. 72,761; Feb. 16; Gaz. vol. 139; p. 726.
- Picture and sign projecting apparatus. General Electrical Display Company. No. 75,366; Sept. 28; Gaz. vol. 146; p. 953.
- Picture apparatus and films, Moving-. American Mutoscope and Biograph Company. Nos. 75,030-1; Aug. 31; Gaz. vol. 145; p. 1245.
- Picture films and projecting-machines therefor, Motion-. Essanay Film Mfg. Co. No. 74,518; July 20; Gaz. vol. 144; p. 813.
- Picture films, Motion-. Centaur Film Co. No. 75,927; Nov. 30; Gaz. vol. 148; p. 1339.
- Picture films, Moving-. Edison Manufacturing Company. No. 74,624; July 27; Gaz. vol. 144; p. 1086.
- Picture-frames, Wooden. Frank W. Williams Company. No. 76,071; Dec. 14; Gaz. vol. 149; p. 597.
- Picture machines, Moving-. Enterprise Optical Mfg. Co. No. 75,205; Sept. 14; Gaz. vol. 146; p. 501.
- Piece goods, Certain. J. Lonke. No. 74,628; July 27; Gaz. vol. 144; p. 1086.
- Piece goods, Certain. J. Lonke. No. 75,993; Dec. 7; Gaz. vol. 149; p. 305.
- Piece goods, Certain. Rogers & Thompson. No. 76,232; Dec. 28; Gaz. vol. 149; p. 1116.
- Piece goods of mixed silk and cotton. Carson, Pirie, Scott & Co. No. 73,061; Mar. 16; Gaz. vol. 140; p. 751.
- Piece goods, Silk. Gallia Silk Mills. No. 73,082; Mar. 16; Gaz. vol. 140; p. 751.
- Pigeon-bands. C. H. Jones. No. 74,457; July 13; Gaz. vol. 144; p. 558.
- Pigment. Binney & Smith Company. No. 75,552; Oct. 19; Gaz. vol. 147; p. 767.
- Pillows, Feather. P. R. Mitchell Company. No. 75,026; Aug. 24; Gaz. vol. 145; p. 1019.
- Pills and dyspepsia-tablets, Liver-. Johnson Richardson Co. No. 73,295; Apr. 6; Gaz. vol. 141; p. 283.
- Pills, Cathartic. Blackburn Products Company. No. 72,445; Jan. 26; Gaz. vol. 138; p. 960.
- Pills for certain diseases. Mother Seigel's Syrup Co. No. 72,467; Jan. 26; Gaz. vol. 138; p. 961.
- Pills, Liver-. C. H. Keith. No. 73,473; Apr. 20; Gaz. vol. 141; p. 863.
- Pills, tablets, and liquid compounds. J. E. Brooke. No. 76,103; Dec. 14; Gaz. vol. 149; p. 598.
- Pills, Vegetable. F. E. Van Haren. No. 73,689; May 11; Gaz. vol. 142; p. 563.

*Alphabetical list of trade-marks—Continued.*

- Pipe, Bent metal. Whitlock Coil Pipe Company. No. 74,108; June 15; Gaz. vol. 143; p. 861.  
 Pipe elbows, Metal conductor-. Klauer Manufacturing Co. No. 74,470; July 13; Gaz. vol. 144; p. 559.  
 Pipe-fittings and valves. Armbruster & Farrell. No. 73,877; May 25; Gaz. vol. 142; p. 1110.  
 Pipes. Reiss Bros. & Co. No. 72,690; Feb. 9; Gaz. vol. 139; p. 459.  
 Pipes. J. W. Surbrug. No. 75,711; Nov. 2; Gaz. vol. 148; p. 276.  
 Pitch for use in breweries. Deutsche Conservierungsgesellschaft für Nahrungs-und Genussmittel m. b. H. No. 74,854; Aug. 17; Gaz. vol. 145; p. 759.  
 Pitch-pine and hard wood, logs, timber, &c. A. Couspeire. No. 75,203; Sept. 14; Gaz. vol. 146; p. 501.  
 Plaids and checks, Cotton-. Riverside Cotton Mills. No. 75,484; Oct. 5; Gaz. vol. 147; p. 232.  
 Plaster-boards. Plaster Products Co. No. 72,749; Feb. 16; Gaz. vol. 139; p. 726.  
 Plaster-boards. Sackett Plaster Board Company. No. 74,153; June 22; Gaz. vol. 143; p. 1104.  
 Plaster-of-paris. J. B. King & Co. No. 73,219; Mar. 30; Gaz. vol. 140; p. 1204.  
 Plaster, Wall-. H. W. Johns-Manville Company. No. 75,537; Oct. 12; Gaz. vol. 147; p. 514.  
 Plaster, Wall-. Tomkins Brothers. No. 75,975; Nov. 30; Gaz. vol. 148; p. 1340.  
 Plasters and medicines, Certain. Queens Pharmacal Company. No. 73,524; Apr. 27; Gaz. vol. 141; p. 1158.  
 Plasters, Corn-. J. Ruzicka. No. 72,609; Feb. 9; Gaz. vol. 139; p. 457.  
 Plasters, pile remedy, and toilet preparations. L. A. Beebe. No. 74,542; July 20; Gaz. vol. 144; p. 814.  
 Plating compound. J. Eisenstein. No. 74,110; June 15; Gaz. vol. 143; p. 861.  
 Plowing, hulling, and threshing machinery. M. Rumely Company. No. 75,685; Nov. 2; Gaz. vol. 148; p. 276.  
 Plows. Davidson-Dietrich Plow Co. No. 73,439; Apr. 20; Gaz. vol. 141; p. 862.  
 Plows. Gantt Mfg. Co. No. 74,450; July 13; Gaz. vol. 144; p. 558.  
 Plows and parts thereof. Oliver Chilled Plow Works. Nos. 72,429-34; Jan. 26; Gaz. vol. 138; p. 960.  
 Plum-pudding, Compositions for making. Already Pure Food Co. No. 74,308; July 6; Gaz. vol. 144; p. 271.  
 Plumbing supplies, Certain. National-Acme Mfg. Co. No. 72,379; Jan. 19; Gaz. vol. 138; p. 765.  
 Plumbing supplies, Certain. Frost Mfg. Co. No. 72,866; Mar. 2; Gaz. vol. 140; p. 249.  
 Plumbing supplies, Certain. American Sanitary Works. No. 73,092; Mar. 23; Gaz. vol. 140; p. 752.  
 Plumbing supplies, Certain. Twyford Limited. No. 73,307; Apr. 6; Gaz. vol. 141; p. 283.  
 Plumbing supplies, Certain. Cleveland Bronze and Brass Works. No. 74,197; June 22; Gaz. vol. 143; p. 1105.  
 Plumbing supplies, Certain. Peck Bros. & Co. No. 74,206; June 22; Gaz. vol. 143; p. 1105.  
 Plumbing supplies, Certain. California Plumbing Supply Co. No. 74,496; July 20; Gaz. vol. 144; p. 813.  
 Pocket-books and card-cases. Emil Weissbrod and Sons. No. 72,549; Feb. 2; Gaz. vol. 139; p. 194.  
 Poison for rats, mice, vermin, and insects. E. S. Wells. No. 72,851; Mar. 2; Gaz. vol. 140; p. 249.  
 Poker-chips. United States Playing Card Co. No. 73,655; May 4; Gaz. vol. 142; p. 285.  
 Poker-chips. United States Playing Card Company. Nos. 75,340-5; Sept. 21; Gaz. vol. 146; p. 717.  
 Poker-chips. United States Playing Card Company. No. 76,133; Dec. 14; Gaz. vol. 149; p. 599.  
 Polish. H. J. Weber. No. 73,075; Mar. 16; Gaz. vol. 140; p. 751.  
 Polish. S. Lewis. No. 74,829; Aug. 10; Gaz. vol. 145; p. 509.  
 Polish for pianos, furniture, and floors. P. Levi. No. 74,658; July 27; Gaz. vol. 144; p. 1087.  
 Polishes and dressings. E. W. Thumb. No. 73,578; May 4; Gaz. vol. 142; p. 283.  
 Polishes, Certain. B. Levy. No. 73,521; Apr. 27; Gaz. vol. 141; p. 1158.  
 Polishing-cloth. A. Fricke. No. 73,106; Mar. 16; Gaz. vol. 140; p. 752.  
 Pomade. R. A. Oleshak. No. 72,720; Feb. 16; Gaz. vol. 139; p. 725.  
 Popcorn and popcorn confectionery. C. G. Buoncrisitano. No. 72,578; Feb. 2; Gaz. vol. 139; p. 195.  
 Popcorn, Shelled. Albert Dickinson Company. No. 72,979; Mar. 9; Gaz. vol. 140; p. 501.  
 Pork roll. Taylor Provision Co. No. 73,183; Mar. 23; Gaz. vol. 140; p. 998.  
 Port and sherry. Cushing Medical Supply Co. No. 75,558; Oct. 19; Gaz. vol. 147; p. 767.  
 Post-cards. Union News Company. No. 72,950; Mar. 2; Gaz. vol. 140; p. 252.  
 Post-cards, Pictorial. Detroit Publishing Company. No. 73,411; Apr. 20; Gaz. vol. 141; p. 861.  
 Potato chips and peanut-butter. A. C. Krumm & Son. No. 73,369; Apr. 13; Gaz. vol. 141; p. 562.  
 Pottery articles, comprising cooking and culinary articles. J. W. McCoy Pottery Co. No. 73,622; May 4; Gaz. vol. 142; p. 284.  
 Poultice-cases. H. J. Dunn. No. 76,107; Dec. 14; Gaz. vol. 149; p. 598.  
 Poultice for inflammations and rheumatism. Chicago Pharmacal Co. No. 72,482; Jan. 26; Gaz. vol. 138; p. 961.  
 Poultry, Dressed. Beatrice Poultry and Cold Storage Co. No. 75,923; Nov. 30; Gaz. vol. 148; p. 1339.  
 Poultry-powder, hog-cholera remedy, and condition-powder. King Manufacturing Company. No. 74,414; July 13; Gaz. vol. 144; p. 557.  
 Powder and paste, Tooth. E. R. Tyler. No. 73,653; May 4; Gaz. vol. 142; p. 285.  
 Powder, Antiseptic tooth-. E. W. Olney. No. 73,378; Apr. 13; Gaz. vol. 141; p. 563.  
 Powder, Baking-. Importers Branch. No. 72,329; Jan. 19; Gaz. vol. 138; p. 763.  
 Powder, Blasting-. W. H. Blumenstein. No. 76,014; Dec. 7; Gaz. vol. 149; p. 306.  
 Powder, Explosive. Lafin & Rand Powder Company. No. 72,657; Feb. 9; Gaz. vol. 139; p. 458.  
 Powder, Face-. Shoemaker & Busch. No. 74,157; June 22; Gaz. vol. 143; p. 1104.  
 Powder, Foot-. R. J. Moore. No. 76,255; Dec. 28; Gaz. vol. 149; p. 1117.  
 Powder for external application in the treatment of skin diseases. G. H. Hammerbacher. No. 72,487; Jan. 26; Gaz. vol. 138; p. 961.  
 Powder for softening water, Perfumed. Crown Perfumery Co. No. 74,545; July 20; Gaz. vol. 144; p. 814.  
 Powder for the extermination of pests. Knox Manufacturing Co. No. 72,330; Jan. 19; Gaz. vol. 138; p. 763.  
 Powder, paste, and soap, Tooth. Albert L. Calder Co. No. 73,464; Apr. 20; Gaz. vol. 141; p. 862.  
 Powder, paste, and wash, Tooth. I. H. Lewkowicz. No. 74,865; Aug. 17; Gaz. vol. 145; p. 759.  
 Powder, perfumery, and face-cream, Baby and face. Frederick Stearns & Co. No. 74,855; Aug. 17; Gaz. vol. 145; p. 759.  
 Powder, Poultry-. Mo. Blue Ribbon Remedy Co. No. 74,866; Aug. 17; Gaz. vol. 145; p. 759.  
 Powder, Sachet-. Eleteo Company. No. 73,617; May 4; Gaz. vol. 142; p. 284.  
 Powder, Sachet-. Eleteo Company. No. 74,801; Aug. 10; Gaz. vol. 145; p. 508.  
 Powder, Smokeless. Lafin & Rand Powder Company. No. 72,658; Feb. 9; Gaz. vol. 139; p. 458.  
 Powder, Talcum. National Toilet Company. No. 73,068; Mar. 16; Gaz. vol. 140; p. 751.  
 Powder, Talcum. Lambert Pharmacal Company. No. 73,334; Apr. 13; Gaz. vol. 141; p. 561.  
 Powder, Talcum. G. D. Snyder. No. 73,481; Apr. 20; Gaz. vol. 141; p. 863.  
 Powder, Talcum. Eleteo Company. No. 73,823; May 25; Gaz. vol. 142; p. 1109.  
 Powder, Toilet or nursery. Johnson & Johnson. No. 74,097; June 15; Gaz. vol. 143; p. 860.  
 Powder, Tooth-. C. E. Tuttle. No. 73,347; Apr. 13; Gaz. vol. 141; p. 562.  
 Powder, Tooth-. A. C. Reynolds Co. No. 73,650; May 4; Gaz. vol. 142; p. 285.  
 Powder, Tooth-. Marietta Stanley Company. No. 74,140; June 22; Gaz. vol. 143; p. 1103.  
 Powders and remedies for certain diseases. G. Potter. No. 74,663; July 27; Gaz. vol. 144; p. 1087.  
 Powders, Horse-. A. L. Johnson. No. 74,015; June 8; Gaz. vol. 143; p. 558.  
 Powders, Toilet. Shoemaker & Busch. No. 73,727; May 11; Gaz. vol. 142; p. 565.  
 Powders, Toilet and bath. Batcheller Importing Co. No. 75,954; Nov. 30; Gaz. vol. 148; p. 1340.  
 Precious-metal articles, Certain. Larter & Sons. No. 75,607; Oct. 26; Gaz. vol. 147; p. 1031.  
 Precious-metal ware, Certain. Webster Company. No. 74,642; July 27; Gaz. vol. 144; p. 1086.  
 Preparation for exterminating rats, &c. S. Basler. No. 73,634; May 4; Gaz. vol. 142; p. 285.  
 Preparation for neuralgia, rheumatism, indigestion, &c. C. A. Ferguson. No. 75,782; Nov. 16; Gaz. vol. 148; p. 827.  
 Preparation for the treatment of certain diseases. Milford Chemical Company. No. 74,291; June 29; Gaz. vol. 143; p. 1341.  
 Preparation used as a protective against moths, &c. J. P. Fitz Gerald. No. 75,395; Sept. 28; Gaz. vol. 146; p. 954.  
 Preservative. Consolidated Railway Industrial Straw Paper Company. No. 74,797; Aug. 10; Gaz. vol. 145; p. 508.  
 Preventive for certain diseases. F. T. E. Souter. No. 74,572; July 20; Gaz. vol. 144; p. 815.  
 Printers' blankets. Standard Rubber Mfg. and Supply Co. No. 74,487; July 13; Gaz. vol. 144; p. 559.  
 Printing apparatus. A. B. Dick Company. No. 74,675; Aug. 8; Gaz. vol. 145; p. 251.  
 Propellers. Columbian Brass Foundry. No. 75,557; Oct. 19; Gaz. vol. 147; p. 767.  
 Publication. Trade Periodical Company. No. 73,961; June 1; Gaz. vol. 143; p. 255.  
 Publication. S. H. Smith. No. 74,242; June 29; Gaz. vol. 143; p. 1339.  
 Publications, Musical. G. Schirmer. No. 76,022; Dec. 7; Gaz. vol. 149; p. 306.  
 Pulleys, Belt-. Dodge Manufacturing Company. No. 74,274; June 29; Gaz. vol. 143; p. 1340.  
 Pulleys, Paper. Rockwood Manufacturing Company. No. 75,687; Nov. 2; Gaz. vol. 148; p. 276.  
 Pulp plates and dishes, Molded. Keyes Fibre Company. No. 72,284; Jan. 12; Gaz. vol. 138; p. 525.  
 Pulp plates and dishes, Molded. Keyes Fibre Company. No. 72,457; Jan. 26; Gaz. vol. 138; p. 960.  
 Pumping-jacks. Alamo Iron Works. Nos. 74,676-9; Aug. 3; Gaz. vol. 145; p. 251.  
 Pumps. Goulds Manufacturing Company. No. 74,281; June 29; Gaz. vol. 143; p. 1341.



*Alphabetical list of trade-marks—Continued.*

- Pumps and tanks, Self-measuring. S. F. Bowser & Co. No. 74,485; July 13; Gaz. vol. 144; p. 559.
- Pumps, Rotary. C. H. Wheeler Manufacturing Co. No. 73,933; June 1; Gaz. vol. 143; p. 254.
- Pumps, Steam-. Pulsometer Steam Pump Co. No. 72,170; Jan. 5; Gaz. vol. 138.
- Purses. J. W. Anthony. No. 74,995; Aug. 24; Gaz. vol. 145; p. 1018.
- Puzzles. P. W. Cohrs. No. 72,114; Jan. 5; Gaz. vol. 138; p. 252.
- Puzzles. Bent Novelty Co. No. 72,351; Jan. 19; Gaz. vol. 138; p. 764.
- Puzzles. W. J. Akin. No. 75,110; Sept. 7; Gaz. vol. 146; p. 251.
- Pyrazolone-phenyl-dimethyl-salicylate. J. D. Riedel Aktiengesellschaft. No. 75,768; Nov. 16; Gaz. vol. 148; p. 827.
- Rackets, balls, and nets, Tennis. The Fair. No. 73,135; Mar. 16; Gaz. vol. 140; p. 753.
- Radiator air-valves. Pierce, Butler & Pierce Manufacturing Company. No. 72,167; Jan. 5; Gaz. vol. 138; p. 253.
- Radiator-casings, stoves, and furnaces. Pennsylvania Furnace & Stove Co. No. 75,057; Aug. 31; Gaz. vol. 145; p. 1246.
- Radiators. American Radiator Company. No. 72,648; Feb. 9; Gaz. vol. 139; p. 458.
- Radiators. American Radiator Company. Nos. 73,694-5; May 11; Gaz. vol. 142; p. 564.
- Railways and roller-coasters, Scenic. Columbus Amusement Company. No. 73,614; May 4; Gaz. vol. 142; p. 284.
- Railway signaling and interlocking apparatus and machinery. Union Switch & Signal Company. No. 74,704; Aug. 3; Gaz. vol. 145; p. 252.
- Rain-coats and skirts for women. A. W. Powell. No. 75,447; Oct. 5; Gaz. vol. 147; p. 231.
- Raisins. L. F. Giffen & Co. Nos. 75,505-6; Oct. 12; Gaz. vol. 147; p. 513.
- Raisins. L. F. Giffen & Co. Nos. 75,568-9; Oct. 19; Gaz. vol. 147; p. 767.
- Ranges. James Spear Stove and Heating Company. No. 75,019; Aug. 24; Gaz. vol. 145; p. 1019.
- Ranges. James Spear Stove and Heating Company. Nos. 75,022-3; Aug. 24; Gaz. vol. 145; p. 1019.
- Ranges, cooking and heating stoves, Steel. J. C. Shanks Co. No. 75,027; Aug. 24; Gaz. vol. 145; p. 1019.
- Ranges, cooking and heating stoves, Steel. J. C. Shanks Co. No. 75,880; Nov. 23; Gaz. vol. 148; p. 1082.
- Razor-strops. Alegretti Manufacturing Company. No. 72,779; Feb. 23; Gaz. vol. 139; p. 985.
- Razors. K. & S. Nicola. No. 74,693; Aug. 3; Gaz. vol. 145; p. 251.
- Razors. Herbrand Co. No. 75,371; Sept. 28; Gaz. vol. 146; p. 953.
- Razors and shears. E. Hunold. No. 73,365; Apr. 13; Gaz. vol. 141; p. 562.
- Razors, Safety-. Landers, Frary & Clark. No. 73,718; May 11; Gaz. vol. 142; p. 564.
- Razors, Safety-. Simmons Hardware Company. No. 74,158; June 22; Gaz. vol. 143; p. 1104.
- Razors, Safety-. F. H. Arnold. No. 74,429; July 13; Gaz. vol. 144; p. 557.
- Razors, scissors, shears, and table cutlery. Wester Bros. No. 76,242; Dec. 28; Gaz. vol. 149; p. 1116.
- Razors, shears, butcher-knives, and sharpening-steels. J. Jaeger. No. 75,541; Oct. 12; Gaz. vol. 147; p. 514.
- Reed wind instruments. Aeolian Co. No. 73,228; Apr. 6; Gaz. vol. 141; p. 281.
- Reels and spools, Metal. Frank Mossberg Company. No. 73,137; Mar. 16; Gaz. vol. 140; p. 753.
- Reels for ruchings, &c. J. C. Schmieder. No. 74,239; June 29; Gaz. vol. 143; p. 1339.
- Reflectors, Prismatic electric. Gillinder & Sons. No. 75,049; Aug. 31; Gaz. vol. 145; p. 1245.
- Refrigerators. Fort Wayne Refrigerator Company. No. 72,454; Jan. 26; Gaz. vol. 138; p. 960.
- Refrigerators. Hibbard, Spencer, Bartlett & Company. No. 72,869; Mar. 2; Gaz. vol. 140; p. 249.
- Refrigerators. Alaska Refrigerator Co. No. 74,083; June 15; Gaz. vol. 143; p. 860.
- Refrigerators. Indiana Manufacturing Company. No. 74,554; July 20; Gaz. vol. 144; p. 814.
- Refrigerators. McCray Refrigerator Company. No. 75,728; Nov. 9; Gaz. vol. 148; p. 565.
- Registers. National Cash Register Company. No. 73,047; Mar. 9; Gaz. vol. 140; p. 503.
- Registers, Floor and wall. United States Reg. Co. No. 76,084; Dec. 14; Gaz. vol. 149; p. 597.
- Relish made from salmon. R. A. Leonard. No. 73,594; May 4; Gaz. vol. 142; p. 283.
- Remedies, Corn. G. & L. Chemical Company. No. 75,663; Nov. 2; Gaz. vol. 148; p. 275.
- Remedies for affections of the skin. W. W. Christmas. No. 72,702; Feb. 16; Gaz. vol. 139; p. 725.
- Remedies for burns, bruises, and ulcers. C. J. Ulrich. No. 76,264; Dec. 28; Gaz. vol. 149; p. 1117.
- Remedies for catarrh, lung trouble, &c. L. H. Logan. No. 74,385; July 6; Gaz. vol. 144; p. 273.
- Remedies for certain diseases. Chemische Werke Hansa. Gesellschaft mit beschränkter Haftung. No. 72,322; Jan. 19; Gaz. vol. 138; p. 763.
- Remedies for certain diseases. A. Person. No. 72,472; Jan. 26; Gaz. vol. 138; p. 961.
- Remedies for certain diseases. P. H. Cherry. No. 72,831; Mar. 2; Gaz. vol. 140; p. 249.
- Remedies for certain diseases. J. T. Clay. No. 72,832; Mar. 2; Gaz. vol. 140; p. 249.
- Remedies for certain diseases. G. M. Parks. No. 72,846; Mar. 2; Gaz. vol. 140; p. 249.
- Remedies for certain diseases. R. H. Williams. No. 73,076; Mar. 16; Gaz. vol. 140; p. 751.
- Remedies for certain diseases. J. W. Bowles. No. 73,288; Apr. 6; Gaz. vol. 141; p. 282.
- Remedies for certain diseases. J. G. Fambach. No. 74,069; June 15; Gaz. vol. 143; p. 860.
- Remedies for certain diseases. E. A. Johnson. No. 75,233; Sept. 14; Gaz. vol. 146; p. 502.
- Remedies for certain diseases. New York & London Drug Co. No. 75,375; Sept. 28; Gaz. vol. 146; p. 953.
- Remedies for certain diseases. E. E. Sutherland Medicine Co. No. 75,980; Nov. 30; Gaz. vol. 148; p. 1340.
- Remedies for certain diseases. W. F. Edwards. No. 76,041; Dec. 7; Gaz. vol. 149; p. 306.
- Remedies for certain diseases. Synvita Medicine Co. No. 76,169; Dec. 21; Gaz. vol. 149; p. 830.
- Remedies for coughs, cankers, and diphtheria. S. D. Hall. No. 76,179; Dec. 21; Gaz. vol. 149; p. 830.
- Remedies for excessive alcoholism. A. H. Leach. No. 74,317; July 6; Gaz. vol. 144; p. 271.
- Remedies for headache. R. W. Nix. No. 76,125; Dec. 14; Gaz. vol. 149; p. 598.
- Remedies for whooping-cough. E. Bischoff. No. 75,353; Sept. 28; Gaz. vol. 146; p. 953.
- Remedies for women's ailments. H. H. Haines. No. 75,602; Oct. 26; Gaz. vol. 147; p. 1031.
- Remedies, Headache. F. J. López. No. 74,970; Aug. 24; Gaz. vol. 145; p. 1018.
- Remedy against gonorrhea, &c. Vereinigte Chininfabriken Zimmer & Co. Ges. mit beschränkter Haftung. No. 74,333; July 6; Gaz. vol. 144; p. 271.
- Remedy, Blood, stomach, liver, bladder, &c. J. N. Tracy. No. 75,630; Oct. 26; Gaz. vol. 147; p. 1032.
- Remedy, Cancer. H. J. Hampton. No. 74,093; June 15; Gaz. vol. 143; p. 860.
- Remedy, Certain named. E. Heilmann. No. 72,193; Jan. 5; Gaz. vol. 138; p. 254.
- Remedy for anemia, Aromatic iron tonic as a. Knoll & Co. No. 72,251; Jan. 12; Gaz. vol. 138; p. 524.
- Remedy for arterio sclerosis, &c. Vereinigte Chininfabriken Zimmer & Co. Ges. mit beschränkter Haftung. No. 74,332; July 6; Gaz. vol. 144; p. 271.
- Remedy for asthma and catarrh. F. G. Ramey. No. 74,328; July 6; Gaz. vol. 144; p. 271.
- Remedy for blight in fruit-trees. F. M. Sherfick. No. 74,648; July 27; Gaz. vol. 144; p. 1086.
- Remedy for blood-poisoning and rheumatism. Sain Chemical Company. No. 76,261; Dec. 28; Gaz. vol. 149; p. 1117.
- Remedy for catarrh and headaches. Lemarc Pharmaceutical Company. No. 74,319; July 6; Gaz. vol. 144; p. 271.
- Remedy for certain diseases. B. S. McKean. No. 72,332; Jan. 19; Gaz. vol. 138; p. 763.
- Remedy for certain diseases. Cawthon-Coleman Company. No. 72,480; Jan. 26; Gaz. vol. 138; p. 961.
- Remedy for certain diseases. J. B. Daniel. No. 72,583; Feb. 2; Gaz. vol. 139; p. 195.
- Remedy for certain diseases. S. Rolfson-Schmidt. No. 72,727; Feb. 16; Gaz. vol. 139; p. 725.
- Remedy for certain diseases. J. B. Daniel. No. 73,080; Mar. 16; Gaz. vol. 140; p. 751.
- Remedy for certain diseases. Chester Product Company. No. 73,321; Apr. 13; Gaz. vol. 141; p. 561.
- Remedy for certain diseases. H. Matusow. No. 73,756; May 18; Gaz. vol. 142; p. 851.
- Remedy for certain diseases. C. L. Hopkins. No. 74,095; June 15; Gaz. vol. 143; p. 860.
- Remedy for certain diseases. S. Habbard. No. 74,282; June 29; Gaz. vol. 143; p. 1341.
- Remedy for certain diseases. F. W. Hovey & Co. No. 74,413; July 13; Gaz. vol. 144; p. 557.
- Remedy for certain diseases. Merrick Medicine Co. No. 74,560; July 20; Gaz. vol. 144; p. 815.
- Remedy for certain diseases. Mystic Wine of Life Co. No. 74,566; July 20; Gaz. vol. 144; p. 815.
- Remedy for certain diseases. T. H. Mansfield. No. 74,652; July 27; Gaz. vol. 144; p. 1087.
- Remedy for certain diseases. J. J. Thomas. No. 74,669; July 27; Gaz. vol. 144; p. 1087.
- Remedy for certain diseases. J. Dumas. No. 74,799; Aug. 10; Gaz. vol. 145; p. 508.
- Remedy for certain diseases. Hessig-Ellis Drug Co. No. 74,815; Aug. 10; Gaz. vol. 145; p. 508.
- Remedy for certain diseases. Farbwerke vorm. Meister Lucius & Brüning. No. 75,046; Aug. 31; Gaz. vol. 145; p. 1245.
- Remedy for certain diseases. J. W. Gedney. No. 75,309; Sept. 21; Gaz. vol. 146; p. 716.
- Remedy for certain diseases. G. B. Cardin. No. 75,358; Sept. 28; Gaz. vol. 146; p. 953.
- Remedy for certain diseases. D. A. Ragan. No. 75,380; Sept. 28; Gaz. vol. 146; p. 954.
- Remedy for certain diseases. J. W. Douthitt. No. 75,619; Oct. 26; Gaz. vol. 147; p. 1031.
- Remedy for certain diseases. Franco-American Ferment Company. No. 75,621; Oct. 26; Gaz. vol. 147; p. 1031.
- Remedy for certain diseases. A. Schoenherr Medicine Co. No. 75,656; Nov. 2; Gaz. vol. 148; p. 275.
- Remedy for certain diseases. Kentucky Remedy Co. No. 75,789; Nov. 16; Gaz. vol. 148; p. 828.

*Alphabetical list of trade-marks—Continued.*

- Remedy for certain diseases. A. Renkert & Co. No. 75,907; Nov. 23; Gaz. vol. 148; p. 1083.  
 Remedy for certain diseases. H. R. Plantan. No. 76,052; Dec. 7; Gaz. vol. 149; p. 307.  
 Remedy for certain diseases. A. Maffucci. No. 76,254; Dec. 28; Gaz. vol. 149; p. 1116.  
 Remedy for certain diseases. Ozo Remedy Company. No. 76,257; Dec. 28; Gaz. vol. 149; p. 1117.  
 Remedy for certain diseases of hogs and chickens. R. W. Wilson & Co. No. 75,066; Aug. 31; Gaz. vol. 145; p. 1246.  
 Remedy for certain named diseases. J. Z. Stanley & Co. No. 72,208; Jan. 5; Gaz. vol. 138; p. 254.  
 Remedy for chronic cough and consumption. J. B. Wood. No. 75,978; Nov. 30; Gaz. vol. 148; p. 1340.  
 Remedy for constipation. Adams Medicine Company. No. 72,184; Jan. 5; Gaz. vol. 138; p. 253.  
 Remedy for constipation. A. B. Bradley. No. 74,655; July 27; Gaz. vol. 144; p. 1087.  
 Remedy for constipation. Pax Chemical Company. No. 75,284; Sept. 21; Gaz. vol. 146; p. 715.  
 Remedy for constipation, biliousness, &c. B. H. Bieber. No. 75,426; Oct. 5; Gaz. vol. 147; p. 231.  
 Remedy for consumption. I. J. Davis. No. 73,148; Mar. 23; Gaz. vol. 140; p. 997.  
 Remedy for consumption and catarrh. J. A. Lane. No. 74,559; July 20; Gaz. vol. 144; p. 814.  
 Remedy for corns, bunions, and warts. Hartman Pharmacy. No. 75,603; Oct. 26; Gaz. vol. 147; p. 1031.  
 Remedy for corns, warts, bunions, and callouses. N. C. Polson. No. 72,726; Feb. 16; Gaz. vol. 139; p. 725.  
 Remedy for coughs and colds. Sharp & Dohme. No. 75,974; Nov. 30; Gaz. vol. 148; p. 1340.  
 Remedy for coughs, colds, and asthma. R. Dregen. No. 74,088; June 15; Gaz. vol. 143; p. 860.  
 Remedy for coughs, colds, and hoarseness. R. W. Goodall. No. 72,191; Jan. 5; Gaz. vol. 138; p. 254.  
 Remedy for coughs, colds, consumption, and bronchitis. Fountain Medicine Company. No. 75,158; Sept. 7; Gaz. vol. 146; p. 252.  
 Remedy for croup. E. W. Vacher. No. 74,331; July 6; Gaz. vol. 144; p. 271.  
 Remedy for diphtheria. J. T. Oakey. No. 74,954; Aug. 24; Gaz. vol. 145; p. 1017.  
 Remedy for diseases of the feet of animals. Souder & Company. No. 72,977; Mar. 9; Gaz. vol. 140; p. 501.  
 Remedy for diseases of the kidneys. Dadds Medicine Company of Ontario. No. 75,504; Oct. 12; Gaz. vol. 147; p. 513.  
 Remedy for diseases of the liver and kidneys. R. A. Smith. No. 72,526; Feb. 2; Gaz. vol. 139; p. 193.  
 Remedy for diseases of the urinary organs. P. Astier. No. 72,513; Feb. 2; Gaz. vol. 139; p. 193.  
 Remedy for distemper in dogs. Veterinary Practicum Syndicate. No. 74,297; June 29; Gaz. vol. 143; p. 1341.  
 Remedy for dyspepsia, biliousness, &c. Ednur Pharmacal Co. No. 75,105; Aug. 31; Gaz. vol. 145; p. 1247.  
 Remedy for eczema, &c. G. N. Payette. No. 74,326; July 6; Gaz. vol. 144; p. 271.  
 Remedy for female weakness. N. S. Lockwood. No. 72,843; Mar. 2; Gaz. vol. 140; p. 249.  
 Remedy for female weakness or diseases. Harris Medicine Company. No. 75,162; Sept. 7; Gaz. vol. 146; p. 252.  
 Remedy for galls, cuts, bruises, &c., of horses and live stock. P. H. Diehl. No. 73,972; June 8; Gaz. vol. 143; p. 557.  
 Remedy for gonorrhea. Sorrells Drug Company. No. 75,101; Aug. 31; Gaz. vol. 145; p. 1247.  
 Remedy for gonorrhea. Aktiengesellschaft vormals B. Siegfried. No. 75,951; Nov. 30; Gaz. vol. 148; p. 1340.  
 Remedy for gonorrhea, gleet, &c. Pharmacie Humanitaire De Paris. No. 73,299; Apr. 6; Gaz. vol. 141; p. 283.  
 Remedy for gonorrhea, gleet, and stricture. J. P. Urban. No. 73,631; May 4; Gaz. vol. 142; p. 284.  
 Remedy for heart diseases. Tonic. Dr. Degen & Kuth. No. 72,706; Feb. 16; Gaz. vol. 139; p. 725.  
 Remedy for hog-cholera. Abel and Williams. No. 72,511; Feb. 2; Gaz. vol. 139; p. 193.  
 Remedy for hydrophobia. I. Z. Koon. No. 74,734; Aug. 3; Gaz. vol. 145; p. 252.  
 Remedy for indigestion. G. W. Carrick Company. No. 73,825; May 25; Gaz. vol. 142; p. 1109.  
 Remedy for indigestion. T. J. Hennessy. No. 75,851; Nov. 23; Gaz. vol. 148; p. 1081.  
 Remedy for indigestion. Sharp & Dohme. No. 76,129; Dec. 14; Gaz. vol. 149; p. 599.  
 Remedy for indigestion and a stomach- tonic. V. Di Nolfo. No. 75,041; Aug. 31; Gaz. vol. 145; p. 1245.  
 Remedy for inducing sleep. E. Jerome. No. 76,165; Dec. 21; Gaz. vol. 149; p. 830.  
 Remedy for leprosy. Kalle & Co., Aktiengesellschaft. No. 72,716; Feb. 16; Gaz. vol. 139; p. 725.  
 Remedy for liver and kidney complaints. R. Haase. No. 72,842; Mar. 2; Gaz. vol. 140; p. 249.  
 Remedy for liver, stomach, and bowel disorders. Chattanooga Medicine Company. No. 74,940; Aug. 24; Gaz. vol. 145; p. 1017.  
 Remedy for malaria, chills, fever, &c. Pomeran Chemical Co. No. 76,128; Dec. 14; Gaz. vol. 149; p. 599.  
 Remedy for malaria, nervous diseases, and general debility. Carno Chemical Co. No. 73,699; May 11; Gaz. vol. 142; p. 564.  
 Remedy for piles. Chicago Pharmacal Co. No. 72,241; Jan. 12; Gaz. vol. 138; p. 524.  
 Remedy for piles. R. M. Hill Co. No. 72,797; Feb. 23; Gaz. vol. 139; p. 985.  
 Remedy for piles. F. E. Blanchard. No. 76,246; Dec. 28; Gaz. vol. 149; p. 1116.  
 Remedy for rhachitis. Dr. Degen & Kuth. No. 72,707; Feb. 16; Gaz. vol. 139; p. 725.  
 Remedy for rheumatism. Malz & Co. No. 73,297; Apr. 6; Gaz. vol. 141; p. 283.  
 Remedy for rheumatism. L. Benoit. No. 73,316; Apr. 13; Gaz. vol. 141; p. 561.  
 Remedy for rheumatism. H. M. Strange. No. 73,345; Apr. 13; Gaz. vol. 141; p. 562.  
 Remedy for rheumatism. J. T. Carback. No. 73,635; May 4; Gaz. vol. 142; p. 285.  
 Remedy for rheumatism. Rose Hill Medicine Co. No. 75,323; Sept. 21; Gaz. vol. 146; p. 716.  
 Remedy for rheumatism. Dr. C. Bezanson & Co. No. 75,425; Oct. 5; Gaz. vol. 147; p. 231.  
 Remedy for rheumatism. T. Isaac. No. 75,606; Oct. 26; Gaz. vol. 147; p. 1031.  
 Remedy for rheumatism. E. Ollariu. No. 75,625; Oct. 26; Gaz. vol. 147; p. 1032.  
 Remedy for rheumatism. A. Girolamo. No. 75,766; Nov. 16; Gaz. vol. 148; p. 827.  
 Remedy for rheumatism and gout. O. Johanson. No. 74,651; July 27; Gaz. vol. 144; p. 1087.  
 Remedy for rheumatism and gout. Boehringer & Reuss. No. 75,300; Sept. 21; Gaz. vol. 146; p. 716.  
 Remedy for skin diseases. J. T. La Bauve. No. 73,767; May 18; Gaz. vol. 142; p. 851.  
 Remedy for skin diseases. Emergency Laboratories. No. 74,724; Aug. 3; Gaz. vol. 145; p. 252.  
 Remedy for skin diseases. Omega Chemical Company. No. 75,626; Oct. 26; Gaz. vol. 147; p. 1032.  
 Remedy for stomach troubles, indigestion, and biliousness. A. Schmidt. No. 76,059; Dec. 7; Gaz. vol. 149; p. 307.  
 Remedy for syphilis. Standard Chemical Co. No. 72,527; Feb. 2; Gaz. vol. 139; p. 193.  
 Remedy for the liquor and tobacco habits. W. A. La Charty. No. 74,138; June 22; Gaz. vol. 143; p. 1103.  
 Remedy for throat and lung troubles. Haines & Burry. No. 75,079; Aug. 31; Gaz. vol. 145; p. 1246.  
 Remedy for typhoid fever. Drew Stranahan Hussey Co. No. 75,245; Sept. 14; Gaz. vol. 146; p. 503.  
 Remedy for warts and moles. Miller Manufacturing Company. No. 74,561; July 20; Gaz. vol. 144; p. 815.  
 Remedy for worms. Wright's Indian Vegetable Pill Company. No. 76,266; Dec. 28; Gaz. vol. 149; p. 1117.  
 Remedy, Headache. Selery-Soda Company. No. 75,973; Nov. 30; Gaz. vol. 148; p. 1340.  
 Remedy, Internal. I. Adams. No. 75,496; Oct. 12; Gaz. vol. 147; p. 513.  
 Remedy, Scalp. Scott-Brown Manufacturing Co. No. 74,872; Aug. 17; Gaz. vol. 145; p. 759.  
 Remedy, Venereal. F. A. V. Klopfer. No. 74,558; July 20; Gaz. vol. 144; p. 814.  
 Remedy, Veterinary. W. S. Ward. No. 74,751; Aug. 3; Gaz. vol. 145; p. 253.  
 Remedy, Veterinary. A. G. Cox. No. 75,271; Sept. 21; Gaz. vol. 146; p. 715.  
 Resins. J. Stockhausen. No. 74,747; Aug. 3; Gaz. vol. 145; p. 253.  
 Revolvers. Hopkins and Allen Arms Company. No. 76,148; Dec. 21; Gaz. vol. 149; p. 829.  
 Revolvers, rifles, and shotguns. Hopkins & Allen Arms Co. No. 75,436; Oct. 5; Gaz. vol. 147; p. 231.  
 Rheostats. Clark and Rowland. No. 75,222; Sept. 14; Gaz. vol. 146; p. 502.  
 Ribbon and bonnet wire and collar-supports. M. Cohn and Company. No. 74,257; June 29; Gaz. vol. 143; p. 1340.  
 Ribbons. W. Openhym & Sons. No. 72,289; Jan. 12; Gaz. vol. 138; p. 525.  
 Ribbons. Carson Pirie Scott & Co. No. 72,816; Jan. 12; Gaz. vol. 139; p. 986.  
 Ribbons. Young, Smyth, Field Company. Nos. 73,813-14; May 18; Gaz. vol. 142; p. 853.  
 Ribbons. Vallet & Perronnet. No. 75,346; Sept. 21; Gaz. vol. 146; p. 717.  
 Ribbons. Gartner, Sons & Co. No. 75,398; Sept. 28; Gaz. vol. 146; p. 954.  
 Rice. Western Grocer Company. No. 72,095; Jan. 5; Gaz. vol. 138; p. 251.  
 Rice. Orme Rice Packing Co. No. 72,814; Jan. 19; Gaz. vol. 138; p. 763.  
 Rice. National Rice Milling Co. No. 74,477; July 13; Gaz. vol. 144; p. 559.  
 Rifles, shotguns, pistols, and revolvers. M. E. Johnson, trustee. No. 75,404; Sept. 28; Gaz. vol. 146; p. 954.  
 Rifles, shotguns, pistols, and revolvers. M. E. Johnson, trustee. No. 75,788; Nov. 16; Gaz. vol. 148; p. 828.  
 Road-dressing compound. Good Roads Company of America. No. 73,292; Apr. 6; Gaz. vol. 141; p. 283.  
 Rock and rye with boardround, and bitters. Pond's Bitters Co. No. 72,336; Jan. 19; Gaz. vol. 138; p. 763.  
 Rolled oats. Sperry Flour Company. No. 74,161; June 22; Gaz. vol. 143; p. 1104.  
 Roller-bearings, ball-bearings, and parts thereof. Standard Roller Bearing Company. No. 73,182; Mar. 23; Gaz. vol. 140; p. 998.  
 Roofing. Composition. American Roofing Company. No. 72,239; Jan. 12; Gaz. vol. 138; p. 523.  
 Roofing. Composition. Huttig Manufacturing Company. No. 73,332; Apr. 13; Gaz. vol. 141; p. 561.  
 Roofing, Felt. A. S. Hopkins Company. No. 74,715; Aug. 3; Gaz. vol. 145; p. 252.  
 Roofing, Fibrous sheets of material for. Asphalt Roofing Company. No. 75,150; Sept. 7; Gaz. vol. 146; p. 252.



*Alphabetical list of trade-marks—Continued.*

- Roofing, Flexible sheet-. Standard Paint Company. No. 74,055; June 15; Gaz. vol. 143; p. 859.
- Roofing, Rubber asbestos. A. S. Hopkins Company. No. 74,716; Aug. 3; Gaz. vol. 145; p. 252.
- Rope and cord. American Manufacturing Company. No. 73,610; May 4; Gaz. vol. 142; p. 284.
- Rope and lines. American Manufacturing Company. No. 73,990; June 8; Gaz. vol. 143; p. 557.
- Rope, cord, lines, and twine. American Manufacturing Company. Nos. 75,635-6; Oct. 26; Gaz. vol. 147; p. 1032.
- Rope for transmitting power over pulleys and for hoisting purposes. Dodge Manufacturing Company. No. 73,549; Apr. 27; Gaz. vol. 141; p. 1158.
- Rosin. C. Meisel. No. 73,572; May 4; Gaz. vol. 142; p. 283.
- Rubber and fiber packings and packing-rings. Victor Oil and Supply Company. No. 74,493; July 13; Gaz. vol. 144; p. 559.
- Rubber bands. A. W. Faber. No. 73,469; Apr. 20; Gaz. vol. 141; p. 863.
- Rubber bands. A. W. Faber. No. 76,110; Dec. 14; Gaz. vol. 149; p. 598.
- Rubber boots and shoes. Mulconroy Company. No. 73,414; Apr. 20; Gaz. vol. 141; p. 861.
- Rubber boots and shoes. Mulconroy Company. No. 73,598; May 4; Gaz. vol. 142; p. 283.
- Rubber boots and shoes. Hood Rubber Co. No. 74,094; June 15; Gaz. vol. 143; p. 860.
- Rubber boots and shoes. Hood Rubber Co. Nos. 74,500-1; July 20; Gaz. vol. 144; p. 813.
- Rubber collars and cuffs. Arlington Company. No. 73,929; June 1; Gaz. vol. 143; p. 254.
- Rubber combs. Vulcanized Rubber Co. No. 73,632; May 4; Gaz. vol. 142; p. 284.
- Rubber combs. Vulcanized Rubber Co. No. 76,160; Dec. 21; Gaz. vol. 149; p. 829.
- Rubber fire-hose. N. J. Car Spring & Rubber Co. No. 73,428; Apr. 20; Gaz. vol. 141; p. 861.
- Rubber footwear. Apsley Rubber Company. No. 75,984; Dec. 7; Gaz. vol. 149; p. 305.
- Rubber, gutta-percha, pontianac, or asphaltum, Chemical solvent for. Massachusetts Chemical Company. No. 75,166; Sept. 7; Gaz. vol. 146; p. 252.
- Rubber heels, tips, and pads. Wood-Milne, Limited. No. 74,516; July 20; Gaz. vol. 144; p. 813.
- Rubber hose. Gorham Rubber Company. No. 74,520; July 20; Gaz. vol. 144; p. 813.
- Rubber hose. Peerless Rubber Manufacturing Company. No. 76,258; Dec. 28; Gaz. vol. 149; p. 1117.
- Rubber hose, belting, packing, and valves. L. M. Rumsey Manufacturing Company. No. 76,078; Dec. 14; Gaz. vol. 149; p. 597.
- Rubber mats and matings. New York Belting and Packing Company. Nos. 73,017-18; Mar. 9; Gaz. vol. 140; p. 502.
- Rubber or rubber and fabric hose. New York Belting and Packing Company. Nos. 75,707-8; Nov. 2; Gaz. vol. 148; p. 276.
- Rubber packing, hose, and belting. Empire Rubber Mfg. Co. No. 76,143; Dec. 21; Gaz. vol. 149; p. 829.
- Rubber preparations for hygienic purposes. Dr. Degen & Kuth. No. 72,603; Feb. 9; Gaz. vol. 139; p. 457.
- Rubber rings and gaskets for jar-caps. Carr Manufacturing Co. Nos. 72,789-90; Feb. 23; Gaz. vol. 139; p. 985.
- Rubber roofing, Prepared. G. E. Cory. No. 72,650; Feb. 9; Gaz. vol. 139; p. 458.
- Rubber shoes. Staudish Rubber Company. No. 75,147; Sept. 7; Gaz. vol. 146; p. 252.
- Rubber tablet-gum. Commercial Paste Company. No. 73,832; May 25; Gaz. vol. 142; p. 1109.
- Rubber tiling. American Hard Rubber Co. No. 74,334; July 6; Gaz. vol. 144; p. 271.
- Rubber water-bottles and syringes. Mechanical Rubber Company. No. 75,748; Nov. 9; Gaz. vol. 148; p. 566.
- Rubber water-bottles and syringes. Mechanical Rubber Company. No. 76,046; Dec. 7; Gaz. vol. 149; p. 306.
- Rugs. Consolidated Woolen Felt Mills Co. No. 74,761; Aug. 10; Gaz. vol. 145; p. 507.
- Rye bread. M. & F. Herbst. No. 72,796; Feb. 23; Gaz. vol. 139; p. 985.
- Saccharin. Saccharin-Fabrik Aktien-Gesellschaft vorm. Fahlberg, List & Co. No. 75,972; Nov. 30; Gaz. vol. 148; p. 1340.
- Saccharine foods, Certain. Oelerich & Laux, Incorp. No. 74,595; July 27; Gaz. vol. 144; p. 1085.
- Sad-iron waxing and polishing mats. Union Waxed & Parchment Paper Company. No. 75,754; Nov. 9; Gaz. vol. 148; p. 566.
- Sago, tapioca, and rice. Griggs, Cooper & Co. No. 74,965; Aug. 24; Gaz. vol. 145; p. 1017.
- Salt. Salt Union. No. 73,526; Apr. 27; Gaz. vol. 141; p. 1158.
- Salt, Bathing-. Mt. Clemens Mineral Springs Water Co. No. 75,968; Nov. 30; Gaz. vol. 148; p. 1340.
- Salt, Compound table-. Worcester Salt Company. No. 74,109; June 15; Gaz. vol. 143; p. 861.
- Salt for the bath, Sea-. Eletto Company. No. 74,408; July 13; Gaz. vol. 144; p. 557.
- Salt, Natural aperient. A. Saxlehner. No. 72,970; Mar. 9; Gaz. vol. 140; p. 501.
- Salt, Table-. C. E. Whitney & Co. No. 72,510; Jan. 26; Gaz. vol. 138; p. 962.
- Salts obtained from natural mineral water, Bitter. A. Saxlehner. No. 72,969; Mar. 9; Gaz. vol. 140; p. 501.
- Salts obtained from natural mineral water, Bitter. A. Saxlehner. No. 72,971; Mar. 9; Gaz. vol. 140; p. 501.
- Salve. B. Schweid. No. 72,848; Mar. 2; Gaz. vol. 140; p. 249.
- Salve. C. Mayer. No. 72,965; Mar. 9; Gaz. vol. 140; p. 501.
- Salve. P. Ahearn. No. 74,356; July 6; Gaz. vol. 144; p. 272.
- Salve. A. Moffett. No. 74,416; July 13; Gaz. vol. 144; p. 557.
- Salve. W. H. Page. No. 74,869; Aug. 17; Gaz. vol. 145; p. 759.
- Salve. Guarantee Salve Co. No. 75,623; Oct. 26; Gaz. vol. 147; p. 1031.
- Salve. J. A. Weegar. No. 75,674; Nov. 2; Gaz. vol. 148; p. 275.
- Salve. N. Canary. No. 75,761; Nov. 16; Gaz. vol. 148; p. 827.
- Salve, Foot-. Sanative Remedy Co. No. 73,300; Apr. 6; Gaz. vol. 141; p. 283.
- Salve for animals, Healing-. Bickmore Gall Cure Co. No. 72,599; Feb. 9; Gaz. vol. 139; p. 457.
- Salve for wounds. W. Busch. No. 72,447; Jan. 26; Gaz. vol. 138; p. 960.
- Salve, Healing-. W. A. Paxton. No. 72,608; Feb. 9; Gaz. vol. 139; p. 457.
- Salve, Insect-repellent. A. Hirth. No. 74,016; June 8; Gaz. vol. 143; p. 558.
- Salves. A. Catino. No. 73,465; Apr. 20; Gaz. vol. 141; p. 862.
- Salves. Craft Remedy Company. No. 73,548; Apr. 27; Gaz. vol. 141; p. 1158.
- Salves. M. C. King. No. 73,716; May 11; Gaz. vol. 142; p. 564.
- Salves. R. M. Scott. No. 75,325; Sept. 21; Gaz. vol. 146; p. 716.
- Salves and ointments. C. B. Williamson. No. 72,530; Feb. 2; Gaz. vol. 139; p. 193.
- Salves, Healing-. S. D. Darris. No. 73,323; Apr. 13; Gaz. vol. 141; p. 561.
- Salves, lotions, face-creams, poison-oak remedies, &c. Owl Drug Co. No. 75,770; Nov. 16; Gaz. vol. 148; p. 827.
- Salves, ointments, powders, and tablets for coughs and colds. F. Fritzsche & Co. No. 74,856; Aug. 17; Gaz. vol. 145; p. 759.
- Sardines. Strohmeier & Arpe Company. No. 75,219; Sept. 14; Gaz. vol. 146; p. 502.
- Sardines and anchovies. Johs. Conradsen, A/S. No. 73,804; May 18; Gaz. vol. 142; p. 852.
- Sardines in oil, Smoked. Strohmeier & Arpe Company. No. 73,117; Mar. 16; Gaz. vol. 140; p. 752.
- Sash-fasteners. Hellwege & Weaver. No. 72,131; Jan. 5; Gaz. vol. 138; p. 252.
- Sauce, Italian tomato. F. Cusimano. No. 72,581; Feb. 2; Gaz. vol. 139; p. 195.
- Sauce, Italian tomato. F. Santarsiero. No. 75,584; Oct. 19; Gaz. vol. 147; p. 768.
- Sauce, (soy-) H. Takanashi. No. 75,385; Sept. 28; Gaz. vol. 146; p. 954.
- Sauce used as a relish and condiment. D. Herzfeld. No. 74,313; July 6; Gaz. vol. 144; p. 271.
- Sausage. Kretschmar Sausage Mfg. Co. No. 73,240; Apr. 6; Gaz. vol. 141; p. 281.
- Sausage. Cudahy Packing Company. No. 74,495; July 13; Gaz. vol. 144; p. 559.
- Sausages, meats, and fats. Carmel Kosher Sausage Company. No. 74,497; July 20; Gaz. vol. 144; p. 813.
- Saw blades, frames, and power-machines, Hack-. Massachusetts Saw Works. No. 73,806; May 18; Gaz. vol. 142; p. 852.
- Saw-sets. Kilborn & Bishop Company. No. 74,378; July 1; Gaz. vol. 144; p. 273.
- Saws. National Saw Company. No. 72,397; Jan. 26; Gaz. vol. 138; p. 959.
- Saws, Circular. Huther Bros. Saw Mfg. Co. No. 76,117; Dec. 14; Gaz. vol. 149; p. 598.
- Saws, Hack-. Henry G. Thompson & Son Co. Nos. 72,985-7; Mar. 9; Gaz. vol. 140; p. 502.
- Saws, Hack-. Henry G. Thompson & Son Co. No. 73,043; Mar. 9; Gaz. vol. 140; p. 503.
- Saws, Hack-. G. N. Clemson. No. 73,079; Mar. 16; Gaz. vol. 140; p. 751.
- Saws, Hack-. Henry G. Thompson & Son Co. No. 73,176; Mar. 23; Gaz. vol. 140; p. 998.
- Saws, Hack-. Henry G. Thompson & Son Co. No. 73,945; June 1; Gaz. vol. 143; p. 254.
- Saws of all kinds. E. C. Atkins & Company. No. 74,200; June 22; Gaz. vol. 143; p. 1105.
- Scale, Composition of matter for preventing and removing. G. W. Hinesley. No. 74,314; July 6; Gaz. vol. 144; p. 271.
- Scale, Compound for the prevention of. Keystone Oil & Supply Co. No. 74,847; Aug. 10; Gaz. vol. 145; p. 509.
- Scarf-pin-securing device. U. S. Scarf Pin Guard Co. No. 73,211; Mar. 30; Gaz. vol. 140; p. 1203.
- Scarfs and cravats, Silk. Oppel & Levinson. No. 72,756; Feb. 16; Gaz. vol. 139; p. 726.
- Schnapps, Schiedam. M. F. Pollen & Zoon. No. 74,207; June 22; Gaz. vol. 143; p. 1105.
- Scientific appliances and parts thereof, Certain named. Optische Werke Cassel Carl Schütz & Co. No. 74,913; Aug. 17; Gaz. vol. 145; p. 760.
- Scouring and polishing powder. Domestic Mfg. Co. No. 72,901; Mar. 2; Gaz. vol. 140; p. 251.
- Scouring, cleansing, and polishing powder. S. H. Torrey, Jr. No. 74,490; July 13; Gaz. vol. 144; p. 559.
- Scythes, grass-hooks, hay-knives, and hedge-trimmers. North Wayne Tool Company. No. 73,625; May 4; Gaz. vol. 142; p. 284.
- Sealing-machines and tape-moisteners. James D. McLaurin Co. No. 75,856; Nov. 23; Gaz. vol. 148; p. 1081.

*Alphabetical list of trade-marks—Continued.*

- Sedative and hypnotic. Farbenfabriken of Elberfeld Company. No. 74,091; June 15; Gaz. vol. 143; p. 860.
- Seed-grain and hay. East Tennessee Feed Co. No. 72,357; Jan. 19; Gaz. vol. 138; p. 764.
- Seed-tester cups and supporting-frames. A. G. Weander. No. 74,028; June 8; Gaz. vol. 143; p. 558.
- Seeds. Texas Seed & Floral Co. No. 73,577; May 4; Gaz. vol. 142; p. 283.
- Seeds, Agricultural. Gate City Seed Co. No. 74,012; June 8; Gaz. vol. 143; p. 558.
- Seeds, Cotton-. W. A. Simpkins. No. 74,054; June 15; Gaz. vol. 143; p. 859.
- Seeds, Vegetable and flower. C. C. Morse & Co. No. 76,015; Dec. 7; Gaz. vol. 149; p. 306.
- Serums. Frederick Stearns & Co. No. 74,807; Aug. 10; Gaz. vol. 145; p. 508.
- Sewing-machine needles. New Home Sewing Machine Company. No. 72,161; Jan. 5; Gaz. vol. 138; p. 253.
- Sewing-machine needles and shuttles. Boye Needle Company. No. 72,417; Jan. 26; Gaz. vol. 138; p. 959.
- Sewing-machines. Davis Sewing Machine Company. No. 73,702; May 11; Gaz. vol. 142; p. 564.
- Sewing-machines and attachments. Domestic Sewing Machine Company. No. 72,651; Feb. 9; Gaz. vol. 139; p. 458.
- Sewing-machines and attachments therefor. Davis Sewing Machine Co. No. 73,259; Apr. 6; Gaz. vol. 141; p. 282.
- Sewing-machines, their parts and attachments. Singer Manufacturing Company. Nos. 74,186-7; June 22; Gaz. vol. 143; p. 1105.
- Shades, Non-metallic lighting-. Enos Company. No. 73,675; May 11; Gaz. vol. 142; p. 563.
- Shears, Lawn and hedge trimming. Kampfle Bros. No. 73,883; May 25; Gaz. vol. 142; p. 1111.
- Shears, Tension-spring. Hamilton Silver Company. No. 73,944; June 1; Gaz. vol. 143; p. 254.
- Sheet metal. Canton Culvert Company. No. 74,120; June 22; Gaz. vol. 143; p. 1103.
- Sheet metal. Stark Rolling Mill Company. No. 74,162; June 22; Gaz. vol. 143; p. 1104.
- Sheet-metal articles. W. A. Eckert. No. 73,705; May 11; Gaz. vol. 142; p. 564.
- Sheet metal, unisolated wire, metallic tubing, and other metals. Wieland & Cie. No. 75,178; Sept. 7; Gaz. vol. 146; p. 253.
- Sheeting and drillings. A. D. Walker. No. 73,605; May 4; Gaz. vol. 142; p. 284.
- Sheeting and drillings. A. D. Walker. No. 73,738; May 11; Gaz. vol. 142; p. 565.
- Sheeting and drillings. A. D. Walker. No. 73,789; May 18; Gaz. vol. 142; p. 852.
- Sheeting, Muslin. Tootle, Wheeler & Motter Mercantile Company. No. 73,247; Apr. 6; Gaz. vol. 141; p. 281.
- Sheetings. Grendel Mills. No. 75,119; Sept. 7; Gaz. vol. 146; p. 251.
- Sheetings, Cotton. Dan River Power & Manfg. Co. Nos. 74,526-9; July 20; Gaz. vol. 144; p. 814.
- Shells, Loaded shotgun-. Robin Hood Ammunition Co. Nos. 72,388-9; Jan. 19; Gaz. vol. 138; p. 765.
- Shelves, stands, and parts thereof. G. E. Kirk. No. 72,872; Mar. 2; Gaz. vol. 140; p. 249.
- Sherry, Spanish. Elder-Harrison Company. Nos. 72,218-19; Jan. 12; Gaz. vol. 138; p. 523.
- Shingles. R. J. Menz Lumber Co. No. 72,966; Mar. 9; Gaz. vol. 140; p. 501.
- Shirtings. Wamsutta Mills. No. 72,464; Jan. 26; Gaz. vol. 138; p. 961.
- Shirtings, Cotton. Dan River Power & Mfg. Co. No. 75,561; Oct. 19; Gaz. vol. 147; p. 767.
- Shirtings, Cotton. Dan River Power & Mfg. Co. No. 75,890; Nov. 23; Gaz. vol. 148; p. 1082.
- Shirting fabrics, Colored woven. Massachusetts Cotton Mills. No. 72,490; Jan. 26; Gaz. vol. 138; p. 961.
- Shirts. Savoy Shirt Co. No. 74,511; July 20; Gaz. vol. 144; p. 813.
- Shirts. Roggen Bros. & Co. No. 75,135; Sept. 7; Gaz. vol. 146; p. 251.
- Shirts. Holland Shirt Company. No. 75,143; Sept. 7; Gaz. vol. 146; p. 252.
- Shirts. E. Loth. No. 75,994; Dec. 7; Gaz. vol. 149; p. 305.
- Shirts and drawers. Stittville Knitting Company. No. 73,244; Apr. 6; Gaz. vol. 141; p. 281.
- Shirts and pajamas. Millen, Aikenhead & Co. No. 74,032; June 8; Gaz. vol. 143; p. 559.
- Shirts, drawers, and pajamas. Hamburger, Wolf & Weiller. No. 75,990; Dec. 7; Gaz. vol. 149; p. 305.
- Shirts, Dress, negligée, and work. Hawley, Folsom & Ronimus. No. 73,364; Apr. 13; Gaz. vol. 141; p. 562.
- Shirts, Men's dress and negligée. Tootle Wheeler & Motter Mer. Co. No. 72,885; Mar. 2; Gaz. vol. 140; p. 249.
- Shirts, Men's outer work-. McCawley & Co. No. 75,004; Aug. 24; Gaz. vol. 145; p. 1018.
- Shirts, Negligée and workmen's. Sweet, Orr & Co. No. 72,732; Feb. 16; Gaz. vol. 139; p. 726.
- Shirts of all kinds, Outer. Cluett, Peabody & Co. No. 75,369; Sept. 28; Gaz. vol. 146; p. 953.
- Shirts, overalls, pants, and coats. L. S. Baumgardner & Company. No. 76,065; Dec. 14; Gaz. vol. 149; p. 597.
- Shirts, Work, negligée, and dress. Byrne & Hammer Dry Goods Co. No. 72,126; Jan. 5; Gaz. vol. 138; p. 252.
- Shoe-blackening. Boyer & Co. No. 74,796; Aug. 10; Gaz. vol. 145; p. 508.
- Shoe-cloth. D. W. Northrop. No. 74,205; June 22; Gaz. vol. 143; p. 1105.
- Shoe-forms. R. P. K. Pressed Metal Co. No. 75,215; Sept. 14; Gaz. vol. 146; p. 502.
- Shoe-polish. E. J. Reilly. No. 74,208; June 22; Gaz. vol. 143; p. 1105.
- Shoe-polish. E. J. Reilly. No. 74,741; Aug. 3; Gaz. vol. 145; p. 253.
- Shoe-polish. A. Selz. No. 75,649; Oct. 26; Gaz. vol. 147; p. 1032.
- Shoe-polish. Robertson & Sons. No. 76,032; Dec. 7; Gaz. vol. 149; p. 306.
- Shoe-polish, Black. A. L. Aste. No. 75,292; Sept. 21; Gaz. vol. 146; p. 715.
- Shoe-polishes. International Shoe Polish Company. No. 74,069; June 15; Gaz. vol. 143; p. 860.
- Shoe-polishes. Yankee Shoe Polish Mfg. Co. No. 74,494; July 13; Gaz. vol. 144; p. 559.
- Shoe-shanks, Metal. Hygienic Shoe Shank Company. No. 74,816; Aug. 10; Gaz. vol. 145; p. 508.
- Shoes. Tappan Shoe Manufacturing Company. No. 75,775; Nov. 16; Gaz. vol. 148; p. 827.
- Shoes. Brown Shoe Company. No. 75,986; Dec. 7; Gaz. vol. 149; p. 305.
- Shoes and slippers, Ladies' leather. S. J. Pentler. No. 72,290; Jan. 12; Gaz. vol. 138; p. 525.
- Shoes, Certain. Pontiac Shoe Mfg. Company. No. 72,291; Jan. 12; Gaz. vol. 138; p. 525.
- Shoes, Certain. Slater & Morrill. No. 72,294; Jan. 12; Gaz. vol. 138; p. 525.
- Shoes, Certain. Stilson Kellogg Shoe Co. No. 72,295; Jan. 12; Gaz. vol. 138; p. 525.
- Shoes, Infants' and children's leather. Northern Shoe Co. No. 75,944; Nov. 30; Gaz. vol. 148; p. 1339.
- Shoes, Leather. Phil. Herold Co. No. 72,437; Jan. 26; Gaz. vol. 138; p. 960.
- Shoes, Leather. Dunn Salmon Company. No. 72,864; Mar. 2; Gaz. vol. 140; p. 249.
- Shoes, Leather. C. C. Tiedemann. No. 73,418; Apr. 20; Gaz. vol. 141; p. 861.
- Shoes, Leather. F. Hagedorn & Sons. No. 73,490; Apr. 27; Gaz. vol. 141; p. 1157.
- Shoes, Leather. Guthmann, Carpenter & Telling. No. 74,610; July 27; Gaz. vol. 144; p. 1085.
- Shoes, Leather. C. W. Johnson. No. 74,689; Aug. 3; Gaz. vol. 145; p. 251.
- Shoes, Leather. Giesecke-D'Oench-Hays Shoe Company. No. 75,142; Sept. 7; Gaz. vol. 146; p. 252.
- Shoes, Leather. Richards and Huelter Company. No. 75,321; Sept. 21; Gaz. vol. 146; p. 716.
- Shoes, Leather. Hamburger Bros. No. 75,434; Oct. 5; Gaz. vol. 147; p. 231.
- Shoes, Leather. Badger and Heslin. No. 75,759; Nov. 16; Gaz. vol. 148; p. 827.
- Shoes, Leather. Ashe, Noyes & Small Company. No. 75,912; Nov. 23; Gaz. vol. 148; p. 1083.
- Shoes, Leather. J. G. Sattler. No. 76,034; Dec. 7; Gaz. vol. 149; p. 306.
- Shoes, Leather. Sherry Shoe Co. No. 76,158; Dec. 21; Gaz. vol. 149; p. 829.
- Shoes, Leather. Barker, Brown & Company. No. 76,226; Dec. 28; Gaz. vol. 149; p. 1116.
- Shoes, Leather and asbestos. A. Brandan. No. 74,756; Aug. 10; Gaz. vol. 145; p. 507.
- Shoes, Leather or partly-leather. Pingree Company. No. 73,340; Apr. 13; Gaz. vol. 141; p. 562.
- Shoes, Leather, rubber, and canvas. National Shoemakers. No. 72,620; Feb. 9; Gaz. vol. 139; p. 457.
- Shoes made in whole or in part of leather. Rice & Hutchins. No. 76,053; Dec. 7; Gaz. vol. 149; p. 307.
- Shoes made wholly or in part of leather. Pingree Company. Nos. 72,522-3; Feb. 2; Gaz. vol. 139; p. 193.
- Shoes made wholly or in part of leather. Pingree Company. No. 72,570; Feb. 2; Gaz. vol. 139; p. 194.
- Shoes made wholly or in part of leather. W. Edelstein. No. 72,923; Mar. 2; Gaz. vol. 140; p. 251.
- Shoes made wholly or in part of leather. J. J. Schulten & Company. No. 74,933; Aug. 17; Gaz. vol. 145; p. 761.
- Shoes, Men's leather. Hamburger Bros. No. 74,227; June 29; Gaz. vol. 143; p. 1339.
- Shoes, Men's leather. A. E. Nettleton Company. No. 76,224; Dec. 28; Gaz. vol. 149; p. 1116.
- Shoes, ox-fords, and slippers, leather. F. O. Reed. No. 73,415; Apr. 20; Gaz. vol. 141; p. 861.
- Shotguns and rifles. Marlin Firearms Co. No. 72,755; Feb. 16; Gaz. vol. 139; p. 726.
- Shovels. Wyoming Shovel Works. No. 76,223; Dec. 28; Gaz. vol. 149; p. 1116.
- Shovels, spades, hoes, axes, &c. Mill & Mine Supply Co. No. 74,939; Aug. 17; Gaz. vol. 145; p. 761.
- Signs. National Car Advertising Company. No. 74,293; June 29; Gaz. vol. 143; p. 1341.
- Silk and silk-mixture piece goods. E. H. Behrens & Co. No. 72,350; Jan. 19; Gaz. vol. 138; p. 764.
- Silk and silk-mixture piece goods. E. H. Behrens & Co. No. 72,577; Feb. 2; Gaz. vol. 139; p. 195.
- Silk cloth. F. Moss. No. 73,897; June 1; Gaz. vol. 143; p. 253.
- Silk dress goods. Valentine & Bentley Silk Co. No. 73,351; Apr. 13; Gaz. vol. 141; p. 562.
- Silk in the piece, Broad. Rogers & Thompson. No. 75,489; Oct. 5; Gaz. vol. 147; p. 233.
- Silk in the piece, Broad. Rogers & Thompson. No. 75,495; Oct. 5; Gaz. vol. 147; p. 233.



*Alphabetical list of trade-marks—Continued.*

- Silk in the piece, Broad. Rogers & Thompson. No. 75,583; Oct. 19; Gaz. vol. 147; p. 768.  
 Silk, linen, and cotton dress goods. Burch, Bailey & Co. No. 74,759; Aug. 10; Gaz. vol. 145; p. 507.  
 Silk, linen, and cotton piece goods. Burch, Bailey & Co. No. 74,584; July 27; Gaz. vol. 144; p. 1085.  
 Silk, linen, and cotton piece goods. Société Atuyer, Bianchini, Férrier & Co. No. 75,139; Sept. 7; Gaz. vol. 146; p. 252.  
 Silk piece goods. L. & E. Stirn. No. 72,391; Jan. 19; Gaz. vol. 138; p. 765.  
 Silk piece goods. York Silk Manufacturing Co. No. 72,544; Feb. 2; Gaz. vol. 139; p. 194.  
 Silk piece goods. Desenberg and Ganster. No. 73,512; Apr. 27; Gaz. vol. 141; p. 1157.  
 Silk piece goods. Valentine & Bentley Silk Co. No. 76,190; Dec. 21; Gaz. vol. 149; p. 830.  
 Silk piece goods and ribbons. Pelgram & Meyer. No. 75,131; Sept. 7; Gaz. vol. 146; p. 251.  
 Silk, Rough-surfaced broad. Rogers & Thompson. No. 72,543; Feb. 2; Gaz. vol. 139; p. 194.  
 Silk, Rough-surfaced broad. Rogers & Thompson. No. 72,624; Feb. 9; Gaz. vol. 139; p. 457.  
 Silk, Rough-surfaced broad. Rogers & Thompson. No. 73,089; Mar. 16; Gaz. vol. 140; p. 752.  
 Silks and woolen piece goods. Bachmann, Emmerich & Co. No. 74,978; Aug. 24; Gaz. vol. 145; p. 1018.  
 Silks, Broad. Leerburger & Hesslein. No. 73,593; May 4; Gaz. vol. 142; p. 283.  
 Silks in the piece, Broad. Rogers & Thompson. No. 75,411; Sept. 28; Gaz. vol. 146; p. 954.  
 Silver and gold polish. F. T. Lord Polish Co. No. 73,278; Apr. 6; Gaz. vol. 141; p. 282.  
 Silver or plated goods. W. & G. Sissons. No. 74,159; June 22; Gaz. vol. 143; p. 1104.  
 Silver-plated ware. International Silver Company. No. 73,894; June 1; Gaz. vol. 143; p. 253.  
 Sink-strainers. F. H. and E. B. Vrooman. No. 72,642; Feb. 9; Gaz. vol. 139; p. 458.  
 Skin-cleansing preparations. A. De Paul. No. 73,276; Apr. 6; Gaz. vol. 141; p. 282.  
 Skin disorders, Preparation for treating. K. A. Lingner. No. 75,091; Aug. 31; Gaz. vol. 145; p. 1246.  
 Skins and furs. R. Lindner. No. 75,966; Nov. 30; Gaz. vol. 148; p. 1340.  
 Skins, Animal-. Stone, Timlow & Co. No. 74,330; July 6; Gaz. vol. 144; p. 271.  
 Skirts, Dress-. Carson, Pirie, Scott & Co. No. 74,880; Aug. 17; Gaz. vol. 145; p. 759.  
 Skirts, petticoats, shirt-waists, &c. Gilbert Mfg. Co. No. 76,072, Dec. 14; Gaz. vol. 149; p. 597.  
 Slate, Structural. Keenan Structural Slate Co. No. 75,086; Aug. 31; Gaz. vol. 145; p. 1246.  
 Sleds. O. L. Beardsley. No. 74,979; Aug. 24; Gaz. vol. 145; p. 1018.  
 Sleighs, sleds, and coasters. S. L. Allen & Co. No. 74,917; Aug. 17; Gaz. vol. 145; p. 761.  
 Snuff, tobacco, and cigars. Strohmeier & Arpe Company. No. 72,593; Feb. 2; Gaz. vol. 139; p. 195.  
 Soap. M. Werk Co. Nos. 72,519-20; Feb. 2; Gaz. vol. 139; p. 193.  
 Soap. Lautz Bros. & Co. No. 72,718; Feb. 16; Gaz. vol. 139; p. 725.  
 Soap. Procter & Gamble Company. No. 73,069; Mar. 16; Gaz. vol. 140; p. 751.  
 Soap. Iowa Soap Company. No. 73,472; Apr. 20; Gaz. vol. 141; p. 863.  
 Soap. Marietta Stanley Company. No. 73,528; Apr. 27; Gaz. vol. 141; p. 1158.  
 Soap. Iowa Soap Company. No. 73,571; May 4; Gaz. vol. 142; p. 283.  
 Soap. Chris. Lipps Company. No. 74,262; June 29; Gaz. vol. 143; p. 1340.  
 Soap. Summit City Soap Works. No. 74,394; July 6; Gaz. vol. 144; p. 273.  
 Soap. E. C. Harley Company. No. 74,444; July 13; Gaz. vol. 144; p. 558.  
 Soap. Eleteo Company. No. 74,446; July 13; Gaz. vol. 144; p. 558.  
 Soap. N. K. Fairbank Company. No. 74,567; July 20; Gaz. vol. 144; p. 815.  
 Soap. J. Meade. No. 74,776; Aug. 10; Gaz. vol. 145; p. 507.  
 Soap. N. K. Fairbank Company. No. 74,867; Aug. 17; Gaz. vol. 145; p. 759.  
 Soap. Barclay & Barclay. No. 74,877; Aug. 17; Gaz. vol. 145; p. 759.  
 Soap. P. Day. No. 74,921; Aug. 17; Gaz. vol. 145; p. 761.  
 Soap. E. A. Reinkendorff. No. 75,452; Oct. 5; Gaz. vol. 147; p. 232.  
 Soap. Burckhardt & Company. No. 75,898; Nov. 23; Gaz. vol. 148; p. 1082.  
 Soap. R. A. Jewett. No. 75,905; Nov. 23; Gaz. vol. 148; p. 1083.  
 Soap. J. Biechele. No. 76,040; Dec. 7; Gaz. vol. 149; p. 306.  
 Soap. Procter & Gamble Company. Nos. 76,091-2; Dec. 14; Gaz. vol. 149; pp. 597-8.  
 Soap. J. F. Shipley. No. 76,130; Dec. 14; Gaz. vol. 149; p. 599.  
 Soap. W. C. Hathaway. No. 76,164; Dec. 21; Gaz. vol. 149; p. 830.  
 Soap and washing-powder. Lautz Bros. & Co. Nos. 73,948-9; June 1; Gaz. vol. 143; p. 254.  
 Soap containing grit, Scouring-. J. T. O'Connor Co. No. 72,194; Jan. 5; Gaz. vol. 138; p. 254.  
 Soap for laundry purposes, Chemical compound for making. W. Feazel. No. 73,922; June 1; Gaz. vol. 143; p. 254.  
 Soap holders, Liquid-. M. K. Mermod. No. 73,450; Apr. 20; Gaz. vol. 141; p. 862.  
 Soap, Laundry. Procter & Gamble Company. Nos. 72,398-400; Jan. 26; Gaz. vol. 138; p. 959.  
 Soap, Laundry. Procter & Gamble Company. No. 72,437; Jan. 26; Gaz. vol. 138; p. 960.  
 Soap, Laundry. Procter & Gamble Company. No. 75,058; Aug. 31; Gaz. vol. 145; p. 1246.  
 Soap, Laundry. Procter & Gamble Company. Nos. 75,378-9; Sept. 28; Gaz. vol. 146; p. 954.  
 Soap, Laundry. Standard Soap Company. No. 75,546; Oct. 12; Gaz. vol. 147; p. 514.  
 Soap, Laundry. Procter & Gamble Company. No. 76,093; Dec. 14; Gaz. vol. 149; p. 598.  
 Soap, Liquid. M. K. Mermod. No. 74,290; June 29; Gaz. vol. 143; p. 1341.  
 Soap, Liquid green. Eleteo Company. No. 73,938; June 1; Gaz. vol. 143; p. 254.  
 Soap powder. Standard Soap Company. No. 72,401; Jan. 26; Gaz. vol. 138; p. 959.  
 Soap, Scouring-. H. Klein. No. 75,276; Sept. 21; Gaz. vol. 146; p. 715.  
 Soap, Scouring, cleansing, and polishing. C. H. Van Rensselaer. No. 74,080; June 15; Gaz. vol. 143; p. 860.  
 Soap, Tar. D. Burr & Co. No. 73,775; May 18; Gaz. vol. 142; p. 852.  
 Soap, Toilet. Mülhens & Kropff. No. 72,521; Feb. 2; Gaz. vol. 139; p. 193.  
 Soap, Toilet. T. M. Sayman. No. 72,972; Mar. 9; Gaz. vol. 140; p. 501.  
 Soap, Toilet. D. R. Bradley & Son. No. 73,913; June 1; Gaz. vol. 143; p. 253.  
 Soap, Toilet. D. R. Bradley & Son. No. 73,921; June 1; Gaz. vol. 143; p. 254.  
 Soap, Toilet. D. R. Bradley & Son. No. 73,954; June 1; Gaz. vol. 143; p. 254.  
 Soap, Toilet. D. R. Bradley & Son. No. 74,172; June 22; Gaz. vol. 143; p. 1104.  
 Soaps. J. W. Wilbur. No. 72,263; Jan. 12; Gaz. vol. 138; p. 524.  
 Soaps. P. A. Houghton. No. 72,364; Jan. 19; Gaz. vol. 138; p. 764.  
 Soaps. Lockwood, Adams and Company. No. 72,373; Jan. 19; Gaz. vol. 138; p. 765.  
 Soaps. C. F. A. Sarg. No. 73,576; May 4; Gaz. vol. 142; p. 283.  
 Soaps. Enos Adams Co. No. 73,839; May 25; Gaz. vol. 142; p. 1109.  
 Soaps. Hunnewell Soap Co. No. 74,176; June 22; Gaz. vol. 143; p. 1104.  
 Soaps and soap powders. Colgate & Co. Nos. 75,639-40; Oct. 26; Gaz. vol. 147; p. 1032.  
 Soaps and soap powders. Colgate & Co. No. 76,105; Dec. 14; Gaz. vol. 149; p. 598.  
 Soaps, Toilet and pumice. A. C. Brown. No. 75,795; Nov. 16; Gaz. vol. 148; p. 823.  
 Soapstone, talc, actinolite, and amphibole. Crystalith Mineral & Mining Company. No. 75,223; Sept. 14; Gaz. vol. 146; p. 502.  
 Soda, Baking-. Griggs, Cooper & Co. No. 76,089; Dec. 14; Gaz. vol. 149; p. 597.  
 Soda, Cooking-. J. A. Folger & Company. No. 74,818; Aug. 10; Gaz. vol. 145; p. 509.  
 Soda-fountain drink. P. J. Tanner. No. 74,574; July 20; Gaz. vol. 144; p. 815.  
 Soda, starch, lye, bluing, &c. Western Grocer Company. No. 73,484; Apr. 20; Gaz. vol. 141; p. 863.  
 Soda, starch, lye, bluing, &c. Western Grocer Company. No. 73,660; May 4; Gaz. vol. 142; p. 285.  
 Soda-water fountain. Powers Fountain Co. No. 74,849; Aug. 10; Gaz. vol. 145; p. 509.  
 Sodium para-aminophenylarsonates. H. S. Wellcome. No. 73,155; Mar. 23; Gaz. vol. 140; p. 997.  
 Solder. Hall & Carpenter. No. 74,133; June 22; Gaz. vol. 143; p. 1103.  
 Sorghum, molasses, and syrup. Bliss Syrup Refining Co. No. 73,172; Mar. 23; Gaz. vol. 140; p. 997.  
 Soup, Compound for making. Aplin & Barrett & The Western Counties Creameries. No. 74,245; June 29; Gaz. vol. 143; p. 1339.  
 Soy and sauce, Japanese. Nippon Shoyu Jozo Kabushiki Kaisha. No. 74,323; July 6; Gaz. vol. 144; p. 271.  
 Soy and sauce, Japanese. Nippon Shoyu Jozo Kabushiki Kaisha. No. 74,325; July 6; Gaz. vol. 144; p. 271.  
 Soy and sauce, Japanese. Nippon Shoyu Jozo Kabushiki Kaisha. No. 74,349; July 6; Gaz. vol. 144; p. 272.  
 Spark-plugs. Oakes & Dow Co. No. 73,377; Apr. 13; Gaz. vol. 141; p. 563.  
 Spark-plugs. Emil Grossman Company. No. 74,903; Aug. 17; Gaz. vol. 145; p. 760.  
 Spark-plugs. Emil Grossman Company. No. 74,924; Aug. 17; Gaz. vol. 145; p. 761.  
 Spark-plugs. Emil Grossman Company. No. 75,563; Oct. 19; Gaz. vol. 147; p. 767.  
 Spark-plugs, batteries, and magnetos. C. F. Jensen. No. 74,928; Aug. 17; Gaz. vol. 145; p. 761.  
 Specific for certain diseases. H. Matusow. No. 73,474; Apr. 20; Gaz. vol. 141; p. 863.

*Alphabetical list of trade-marks—Continued.*

- Spectacle-glasses, lenses, and photographic light-filters. K. Stockhausen. No. 75,818; Nov. 16; Gaz. vol. 148; p. 828.
- Spices. D. & L. Slade Co. No. 72,449; Jan. 26; Gaz. vol. 138; p. 960.
- Spices. D. & L. Slade Co. No. 72,582; Feb. 2; Gaz. vol. 139; p. 195.
- Spices. A. Koppel. No. 74,137; June 22; Gaz. vol. 143; p. 1103.
- Spices and mustard. Griggs, Cooper & Co. No. 74,966; Aug. 24; Gaz. vol. 145; p. 1017.
- Spices, Ground. J. A. Folger & Company. No. 74,502; July 20; Gaz. vol. 144; p. 813.
- Spool and sewing cotton and thread. American Thread Company. Nos. 72,855-7; Mar. 2; Gaz. vol. 140; p. 249.
- Spool and sewing cotton and thread. American Thread Company. No. 72,955; Mar. 2; Gaz. vol. 140; p. 252.
- Spool and sewing cotton and thread. American Thread Company. No. 73,230; Apr. 6; Gaz. vol. 141; p. 281.
- Spool-cotton. Sewing Thread Co. No. 74,700; Aug. 3; Gaz. vol. 145; p. 251.
- Sporting goods, Certain. E. L. Rogers. No. 72,936; Mar. 2; Gaz. vol. 140; p. 252.
- Sporting goods, Certain. Norvell-Shapleigh Hardware Company. No. 76,127; Dec. 14; Gaz. vol. 149; p. 598.
- Sporting goods, Certain. Lee & Underhill. No. 76,167; Dec. 21; Gaz. vol. 149; p. 830.
- Sprayers, Hand-operated. Voelkner & Harry Mfg. Co. No. 75,103; Aug. 31; Gaz. vol. 145; p. 1247.
- Spraying fluids. W. Cooper & Nephews. No. 72,515; Feb. 2; Gaz. vol. 139; p. 193.
- Stamp books and sheets. Postage. E. L. Warner. No. 72,297; Jan. 12; Gaz. vol. 138; p. 525.
- Stamp or label affixers and parts of same. Drummond-Ludlow Co. No. 75,529; Oct. 12; Gaz. vol. 147; p. 514.
- Stamps, Trading-. McKelvey Company. No. 74,887; Aug. 17; Gaz. vol. 145; p. 760.
- Stamps, Trading-. McKelvey Company. No. 75,025; Aug. 24; Gaz. vol. 145; p. 1019.
- Stamps, Trading-. McKelvey Company. No. 76,183; Dec. 21; Gaz. vol. 149; p. 830.
- Starch for alimentary purposes. Classic Products Co. No. 76,066; Dec. 14; Gaz. vol. 149; p. 597.
- Starch for laundry purposes, Corn-. Frank Richards Laundry Supply Co. No. 75,843; Nov. 23; Gaz. vol. 148; p. 1081.
- Starch for laundry purposes, Wheat-. Frank Richards Laundry Supply Co. No. 75,842; Nov. 23; Gaz. vol. 148; p. 1081.
- Starch, Gloss lump-. S. S. Pierce Co. No. 74,570; July 20; Gaz. vol. 144; p. 815.
- Starch, Laundry. W. W. Doolittle. No. 73,890; June 1; Gaz. vol. 143; p. 253.
- Starch, Laundry, pearl, and powdered. Corn Products Refining Company. No. 73,466; Apr. 20; Gaz. vol. 141; p. 863.
- Starch polish or enamel, Laundry. Naptha Starch Enamel Company. No. 73,647; May 4; Gaz. vol. 142; p. 285.
- Starch preparations, Chemical. Amalgamated Gum Company. No. 75,594; Oct. 26; Gaz. vol. 147; p. 1031.
- Starch, Warp-sizing. Corn Products Refining Company. No. 73,467; Apr. 20; Gaz. vol. 141; p. 863.
- Stationery, Certain. Thomas De La Rue & Company. No. 73,811; May 18; Gaz. vol. 142; p. 853.
- Statuary, bas-reliefs, and statuettes. Ozark Pottery Company. No. 76,038; Dec. 7; Gaz. vol. 149; p. 306.
- Steam, oil, oil-ammonia, and receiver separators. Harrison Safety Boiler Works. No. 75,684; Nov. 2; Gaz. vol. 148; p. 276.
- Steam-traps and unions. Lancaster & Tonge. No. 76,029; Dec. 7; Gaz. vol. 149; p. 306.
- Steel. Cammell Laird & Co. No. 73,879; May 25; Gaz. vol. 142; p. 1110.
- Steel. Edgar Allen & Co. No. 74,065; June 15; Gaz. vol. 143; p. 860.
- Steel. Pontnewynydd Sheet and Galvanizing Company. No. 74,295; June 29; Gaz. vol. 143; p. 1341.
- Steel. Samuel Fox & Co. No. 74,300; June 29; Gaz. vol. 143; p. 1341.
- Steel. Seebohm & Dieckstaht. No. 75,829; Nov. 16; Gaz. vol. 148; p. 829.
- Steel and certain steel articles. Jones & Laughlin Steel Company. No. 73,163; Mar. 23; Gaz. vol. 140; p. 997.
- Steel castings. Strong Steel Foundry Company. No. 74,188; June 22; Gaz. vol. 143; p. 1105.
- Steel, iron, lead, zinc, and copper. J. A. Henckels. No. 75,014; Aug. 24; Gaz. vol. 145; p. 1019.
- Steel, iron, lead, zinc, and copper. J. A. Henckels. No. 75,540; Oct. 12; Gaz. vol. 147; p. 514.
- Steel-polisher of abrasive rubber. E. Faber. No. 72,746; Feb. 16; Gaz. vol. 139; p. 726.
- Steel sheets, Black and galvanized. Bowesfield Steel Co. No. 75,524; Oct. 12; Gaz. vol. 147; p. 513.
- Steel sheets, Black and galvanized. Bowesfield Steel Co. Nos. 75,553-4; Oct. 19; Gaz. vol. 147; p. 767.
- Steel, Tool-. John Bedford & Sons. No. 74,884; Aug. 17; Gaz. vol. 145; p. 760.
- Stencil-printers, wax stencil and impression paper. James D. Carter Limited. No. 73,803; May 18; Gaz. vol. 142; p. 852.
- Stereopticons, projectors, magic lanterns, &c. Buckeye Stereopticon Co. No. 76,086; Dec. 14; Gaz. vol. 149; p. 597.
- Stereoscopes. W. M. Johnson. No. 73,368; Apr. 13; Gaz. vol. 141; p. 562.
- Sterilizers. Forbes Company. No. 74,448; July 13; Gaz. vol. 144; p. 558.
- Stiletto, Embroidery-. C. M. Haynes. No. 75,163; Sept. 7; Gaz. vol. 146; p. 252.
- Stills. J. H. Jewell. No. 74,985; Aug. 24; Gaz. vol. 145; p. 1018.
- Stock food, grape-sugar, and corn-starch. Corn Products Refining Company. No. 72,448; Jan. 26; Gaz. vol. 138; p. 960.
- Stockings. Joseph Black & Sons Company. Nos. 73,207-9; Mar. 30; Gaz. vol. 140; p. 1203.
- Stockings, socks, undershirts, ladies' drawers, &c. Watson-Glasgow Hosiery Company. No. 73,928; June 1; Gaz. vol. 143; p. 254.
- Stogies. A. Hurwitz. No. 73,395; Apr. 13; Gaz. vol. 141; p. 563.
- Stokers for furnaces, Mechanical. Oscar Barnett Foundry Co. No. 72,254; Jan. 12; Gaz. vol. 138; p. 524.
- Stone plates, Artificial-. A. Schenk. No. 74,571; July 20; Gaz. vol. 144; p. 815.
- Stout and ale. Edward & John Burke. No. 72,128; Jan. 5; Gaz. vol. 138; p. 252.
- Stove and range fire-brick. March-Brownback Stove Company. No. 72,800; Feb. 23; Gaz. vol. 139; p. 985.
- Stove-blackening. Sommer & Gottschalk. No. 73,384; Apr. 13; Gaz. vol. 141; p. 563.
- Stove-polish, Liquid. F. A. Ritter. No. 73,575; May 4; Gaz. vol. 142; p. 283.
- Stoves and kitchen-ranges. Marshall-Wells Hardware Co. No. 72,575; Mar. 2; Gaz. vol. 140; p. 249.
- Stoves and lamps, Alcohol. Landers, Frary & Clark. No. 74,019; June 8; Gaz. vol. 143; p. 558.
- Stoves and ranges. Globe Stove and Range Company. No. 73,004; Mar. 9; Gaz. vol. 140; p. 502.
- Stoves and ranges. Louisville Tin and Stove Company. No. 74,522; July 20; Gaz. vol. 144; p. 813.
- Stoves and ranges and parts of same. Cribben & Sexton Company. No. 72,145; Jan. 5; Gaz. vol. 138; p. 252.
- Stoves and ranges and parts thereof, Cooking and heating. Chicago Stove Works. No. 73,547; Apr. 27; Gaz. vol. 141; p. 1158.
- Stoves and ranges and parts thereof, Heating. March-Brownback Stove Company. No. 72,801; Feb. 23; Gaz. vol. 139; p. 985.
- Stoves and ranges, Cooking. Steiger & Kerr Stove & Foundry Co. No. 72,575; Feb. 2; Gaz. vol. 139; p. 194.
- Stoves, Cook-. James Spear Stove and Heating Company. Nos. 75,016-17; Aug. 24; Gaz. vol. 145; p. 1019.
- Stoves, Cooking-. James Spear Stove and Heating Company. No. 75,055; Aug. 31; Gaz. vol. 145; p. 1245.
- Stoves, Cooking and heating. Bering-Cortes Hardware Co. Nos. 73,408-9; Apr. 20; Gaz. vol. 141; p. 861.
- Stoves, Cooking and heating. Bering-Cortes Hardware Co. No. 74,008; June 8; Gaz. vol. 143; p. 558.
- Stoves, furnaces, and ranges. James Spear Stove and Heating Company. No. 75,020; Aug. 24; Gaz. vol. 145; p. 1019.
- Stoves, Heating-. James Spear Stove and Heating Company. No. 75,021; Aug. 24; Gaz. vol. 145; p. 1019.
- Stoves, Oil, gas, and vapor. Novelty Manufacturing Company. No. 75,729; Nov. 9; Gaz. vol. 148; p. 565.
- Stoves, ranges, and furnaces. White-Warner Co. No. 73,431; Apr. 20; Gaz. vol. 141; p. 862.
- Stoves, ranges, and furnaces. North Dighton Co-operative Stove Co. No. 74,638; July 27; Gaz. vol. 144; p. 1086.
- Stoves, ranges, and furnaces. James Spear Stove and Heating Company. No. 75,015; Aug. 24; Gaz. vol. 145; p. 1019.
- Stoves, ranges, and furnaces. James Spear Stove and Heating Company. No. 75,024; Aug. 24; Gaz. vol. 145; p. 1019.
- Stoves, ranges, and furnaces. Buffalo Co-operative Stove Company. No. 75,331; Sept. 21; Gaz. vol. 146; p. 716.
- Stoves, ranges, and furnaces. Marion Stove Company. No. 75,543; Oct. 12; Gaz. vol. 147; p. 514.
- Stoves, ranges, and parts thereof. Portsmouth Stove & Range Co. No. 74,149; June 22; Gaz. vol. 143; p. 1104.
- Stoves, ranges, furnaces, &c. Barstow Stove Company. No. 74,517; July 20; Gaz. vol. 144; p. 813.
- Stoves, ranges, furnaces, heaters, and parts thereof. H. Wetter Manufacturing Co. No. 75,160; Sept. 7; Gaz. vol. 146; p. 252.
- Stoves, ranges, hot-air furnaces, and parts thereof, Certain. Mt. Penn Stove Works. Nos. 72,468-9; Jan. 26; Gaz. vol. 138; p. 961.
- Straw and chip, Partly-prepared. T. Lye & Sons. No. 73,827; May 25; Gaz. vol. 142; p. 1109.
- Straw and chip plait. T. Lye & Sons. No. 73,884; May 25; Gaz. vol. 142; p. 1111.
- Stringed instruments and parts of the same. R. Beyer. No. 73,697; May 11; Gaz. vol. 142; p. 564.
- Strings, Gut. J. Schmid. No. 74,974; Aug. 24; Gaz. vol. 145; p. 1018.
- Sugar and syrups. Franklin Sugar Refining Company. No. 73,797; May 18; Gaz. vol. 142; p. 852.
- Sugar, Corn-. Corn Products Refining Company. No. 73,362; Apr. 13; Gaz. vol. 141; p. 562.
- Sugar, Granulated. American Sugar Refining Company. Nos. 73,093-8; Mar. 16; Gaz. vol. 140; p. 752.
- Sugar, Hard. American Sugar Refining Company. Nos. 73,099-101; Mar. 23; Gaz. vol. 140; p. 752.
- Sugar, Non-fermenting. W. Narath. No. 75,580; Oct. 19; Gaz. vol. 147; p. 768.
- Sugar wafers. Geo. H. Strietmann's Sons Company. No. 75,698; Nov. 2; Gaz. vol. 148; p. 276.
- Sugar wafers. National Biscuit Company. No. 73,811; Nov. 16; Gaz. vol. 148; p. 828.
- Suits, shirts, and sheetings. L. S. Baumgardner & Company. No. 76,013; Dec. 7; Gaz. vol. 149; p. 306.
- Suits, Boys' outer. J. J. Connell. Nos. 75,721-3; Nov. 9; Gaz. vol. 148; p. 565.
- Suits, drawers, and undershirts, Union. Regent Shirt Company. No. 75,878; Nov. 23; Gaz. vol. 148; p. 1082.
- Suits, dress and shirt waists, kimonos, &c., Wash-. Crippen & Reid. No. 75,762; Nov. 16; Gaz. vol. 148; p. 827.



*Alphabetical list of trade-marks—Continued.*

- Suits, overcoats, and trousers, Outer. J. Greenberg & Son. No. 75,848; Nov. 23; Gaz. vol. 148; p. 1081.
- Suits, shirt-waists, &c., 'Ladies'. Gern Garment Company. No. 72,550; Feb. 2; Gaz. vol. 139; p. 194.
- Suits, skirts, and coats, Ladies'. John Anisfield Co. No. 73,924; June 1; Gaz. vol. 143; p. 254.
- Suits, Youths' outer. Corinth Woolen Mills. No. 75,838; Nov. 23; Gaz. vol. 148; p. 1081.
- Suppositories. F. S. Ackerman. No. 73,608; May 4; Gaz. vol. 142; p. 284.
- Suppositories. S. Baruch. No. 73,815; May 25; Gaz. vol. 142; p. 1109.
- Suppository for nasal passages. E. Baum. No. 72,443; Jan. 26; Gaz. vol. 138; p. 960.
- Surgical goods, Certain. C. I. Davis. No. 74,363; July 6; Gaz. vol. 144; p. 272.
- Surgical instruments and supplies. Chas. Lentz & Sons. No. 73,636; May 4; Gaz. vol. 142; p. 285.
- Surgical instruments and supplies, Certain. Surgical Supply Importing Co. No. 74,748; Aug. 3; Gaz. vol. 145; p. 253.
- Surgical splints, bandages, and plastic compositions. L. H. Reuter. No. 74,665; July 27; Gaz. vol. 144; p. 1087.
- Surgical supplies. New Hartford Cotton Manufacturing Co. No. 75,443; Oct. 5; Gaz. vol. 147; p. 231.
- Suspenders. J. Plant. No. 73,113; Mar. 16; Gaz. vol. 140; p. 752.
- Suspenders. Knothe Brothers. No. 75,862; Nov. 23; Gaz. vol. 148; p. 1081.
- Suspenders and belts. A. Brode & Son. No. 75,985; Dec. 7; Gaz. vol. 149; p. 305.
- Suspenders and men's garters. A. Ziegler & Sons Company. No. 72,993; Mar. 9; Gaz. vol. 140; p. 502.
- Suspenders and shoulder-braces. Russell Manufacturing Company. Nos. 73,982-4; June 8; Gaz. vol. 143; p. 557.
- Suspenders, belts, garters, and arm-bands. Heagle and Argersinger. No. 74,375; July 6; Gaz. vol. 144; p. 273.
- Suspenders, garters, and belts. Ostheimer Brothers. No. 74,778; Aug. 10; Gaz. vol. 145; p. 507.
- Suspenders, neckties, and neckscarfs. Tootle Campbell Dry Goods Co. No. 72,639; Feb. 9; Gaz. vol. 139; p. 458.
- Suspenders, neckties, garters, and belts. G. W. Seay. No. 75,896; Nov. 23; Gaz. vol. 148; p. 1082.
- Sweater-coats, sweaters, knit jackets, and vests. Wye & Wye. No. 72,180; Jan. 5; Gaz. vol. 138; p. 253.
- Sweaters, cardigan jackets, bathing-suits, &c. Wertheimer Bro's. No. 74,029; June 8; Gaz. vol. 143; p. 559.
- Sweaters, fasciators, shawls, and caps. Mayer-Guthorn & Kahn Company. No. 74,691; Aug. 3; Gaz. vol. 145; p. 251.
- Sweeping compositions. Cotto-Waxo Chemical Company. No. 74,405; July 13; Gaz. vol. 144; p. 557.
- Sweeping compound. W. M. Kendall. No. 74,862; Aug. 17; Gaz. vol. 145; p. 759.
- Sweeping compounds. Waterloo Chemical Works. No. 72,850; Mar. 2; Gaz. vol. 140; p. 249.
- Sweeping compounds. Terabentine Co. No. 73,652; May 4; Gaz. vol. 142; p. 285.
- Sweeping compounds. Sanitary Brush & Compound Co. No. 73,729; May 11; Gaz. vol. 142; p. 565.
- Sweeping preparation. F. F. Prusz. No. 72,807; Feb. 23; Gaz. vol. 139; p. 986.
- Swimming-collars, Rubberized. Archer Rubber Company. No. 72,403; Jan. 26; Gaz. vol. 138; p. 959.
- Syrup. Pacific Coast Syrup Co. No. 74,147; June 22; Gaz. vol. 143; p. 1104.
- Syrup. Penick & Ford. No. 75,132; Sept. 7; Gaz. vol. 146; p. 251.
- Syrup, Compound of corn and cane. New England Maple Syrup Co. No. 73,916; June 1; Gaz. vol. 143; p. 254.
- Syrup, Compound of corn and cane. Mangels, Herold Co. No. 74,000; June 8; Gaz. vol. 143; p. 558.
- Syrup for a carbonated beverage, Acidulous. L. A. Johnson. No. 72,153; Jan. 5; Gaz. vol. 138; p. 253.
- Syrup for making a tonic beverage. Fisheropathic College Association. No. 72,326; Jan. 19; Gaz. vol. 138; p. 763.
- Syrup for making beverages. R. L. Turner. No. 74,105; June 15; Gaz. vol. 143; p. 861.
- Syrup made from maple and white sugar. New England Maple Syrup Company. No. 75,056; Aug. 31; Gaz. vol. 145; p. 1245.
- Syrup, Orange-flavored. Chavey Bros. No. 75,430; Oct. 5; Gaz. vol. 147; p. 231.
- Syrups and extracts for making carbonated beverages. Ex-Cel-O Company. No. 76,144; Dec. 21; Gaz. vol. 149; p. 829.
- Syrups, Blend of cane and maple. Towle Maple Syrup Company. No. 74,056; June 15; Gaz. vol. 143; p. 859.
- Syrups, Certain. National Manufacturing Co. No. 72,660; Feb. 9; Gaz. vol. 139; p. 458.
- Syrups, coffee, and compound of coffee and chicory. New Orleans Coffee Company. Nos. 74,910-11; Aug. 17; Gaz. vol. 145; p. 760.
- Table-cloths and napkins. Irish Hand-Woven Linen Damask Company. No. 73,862; May 25; Gaz. vol. 142; p. 1110.
- Table tops or cloths, Cotton. Rosemary Manufacturing Company. Nos. 73,199-200; Mar. 30; Gaz. vol. 140; p. 1203.
- Tablet, Aperient, laxative, and cathartic. H. K. Mulford Company. No. 75,601; Oct. 26; Gaz. vol. 147; p. 1031.
- Tablet, Cathartic. J. J. Kline. No. 72,717; Feb. 16; Gaz. vol. 139; p. 725.
- Tablet used internally. Chicago Pharmacal Co. No. 72,323; Jan. 19; Gaz. vol. 138; p. 763.
- Tablets and blank books. Educational Tablet Co. No. 74,277; June 29; Gaz. vol. 143; p. 1340.
- Tablets, blank books, paper, and envelopes. Educational Tablet Company. No. 74,276; June 29; Gaz. vol. 143; p. 1340.
- Tablets for dyspepsia. Mother Seigel's Syrup Company. No. 72,493; Jan. 26; Gaz. vol. 138; p. 962.
- Tablets for dyspepsia. Mother Seigel's Syrup Co. No. 73,646; May 4; Gaz. vol. 142; p. 285.
- Tablets for indigestion, &c. Mother Seigels Syrup Co. No. 73,898; June 1; Gaz. vol. 143; p. 253.
- Tablets, Kidney and bladder. Carpenter Company. No. 75,598; Oct. 26; Gaz. vol. 147; p. 1031.
- Tablets, Writing-. Montag Brothers. Nos. 75,005-7; Aug. 24; Gaz. vol. 145; p. 1019.
- Tablets, Writing-. Montag Brothers. No. 75,210; Sept. 14; Gaz. vol. 146; p. 502.
- Tablets, Writing-. Montag Brothers. No. 75,511; Oct. 12; Gaz. vol. 147; p. 513.
- Taffy, Peanut and molasses. H. C. Albrecht. No. 73,989; June 8; Gaz. vol. 143; p. 557.
- Taffy, Salt-water. Atlantic City Candy Company. No. 73,102; Mar. 16; Gaz. vol. 140; p. 752.
- Tag-boards, papers, and bristol-boards. Detroit Sulphite Pulp & Paper Co. Nos. 74,338-9; July 6; Gaz. vol. 144; p. 272.
- Tanners' bates. Martin Dennis Company. No. 74,321; July 6; Gaz. vol. 144; p. 271.
- Tanning and dyeing, Cutch for. Island Trading Syndicate. No. 74,285; June 29; Gaz. vol. 143; p. 1341.
- Tanning liquid. Robeson Process Company. No. 75,486; Oct. 5; Gaz. vol. 147; p. 232.
- Tanning liquid. Robeson Process Company. No. 75,488; Oct. 5; Gaz. vol. 147; p. 233.
- Tape-lines and tape-line reels. J. O. Smith Co. No. 75,063; Aug. 31; Gaz. vol. 145; p. 1246.
- Tapes and bindings. Krout & Fite Manufacturing Company. Nos. 73,108-9; Mar. 16; Gaz. vol. 140; p. 752.
- Tapestries, draperies, and upholstering fabrics. Rosenheim Brothers Co. No. 72,542; Feb. 2; Gaz. vol. 139; p. 194.
- Tapioeca, Prepared. Minute Tapioeca Company. No. 75,870; Nov. 23; Gaz. vol. 148; p. 1082.
- Taps and bushes, Beer. American Tap Bush Company. No. 75,736; Nov. 9; Gaz. vol. 148; p. 565.
- Targets. Western Cartridge Co. No. 76,222; Dec. 28; Gaz. vol. 149; p. 1116.
- Tartar solvent. J. Head. No. 75,081; Aug. 31; Gaz. vol. 145; p. 1246.
- Tea. Geo. Lewis & Co. No. 72,327; Jan. 19; Gaz. vol. 138; p. 763.
- Tea. C. F. Blanke Tea & Coffee Co. No. 72,788; Feb. 23; Gaz. vol. 139; p. 985.
- Tea. New Orleans Import Co. No. 73,221; Mar. 30; Gaz. vol. 140; p. 1204.
- Tea. New Orleans Import Co. No. 73,374; Apr. 13; Gaz. vol. 141; p. 563.
- Tea. Renfro Bros. Co. No. 73,398; Apr. 13; Gaz. vol. 141; p. 563.
- Tea. J. A. Folger & Company. No. 74,819; Aug. 10; Gaz. vol. 145; p. 509.
- Tea. Bennett, Sloan & Co. No. 75,034; Aug. 31; Gaz. vol. 145; p. 1245.
- Tea. Dwinell-Wright Company. No. 75,141; Sept. 7; Gaz. vol. 146; p. 252.
- Tea. National Grocer Company. No. 75,442; Oct. 5; Gaz. vol. 147; p. 231.
- Tea. T. Wood & Co. No. 76,085; Dec. 14; Gaz. vol. 149; p. 597.
- Tea. Eppens, Smith Company. No. 76,088; Dec. 14; Gaz. vol. 149; p. 597.
- Tea and coffee. Tea Consumers' Company. No. 75,820; Nov. 16; Gaz. vol. 148; p. 829.
- Tea, Blend of Ceylon and India. Ceylana Tea Company. No. 73,360; Apr. 13; Gaz. vol. 141; p. 562.
- Tea, Blended. A. V. Eckert. No. 73,277; Apr. 6; Gaz. vol. 141; p. 282.
- Tea, Blended. Austin, Nichols & Co. No. 76,063; Dec. 14; Gaz. vol. 149; p. 597.
- Tea, coffee, cocoa, and chocolate. R. Twining & Co. No. 73,956; June 1; Gaz. vol. 143; p. 255.
- Tea, coffee, flavoring extracts, and spices. Young Bros. No. 76,006; Dec. 7; Gaz. vol. 149; p. 305.
- Tea, coffee, spices, wheat-flour, and butter. F. Fenster. No. 75,432; Oct. 5; Gaz. vol. 147; p. 231.
- Teas. W. McMurray. No. 74,629; July 27; Gaz. vol. 144; p. 1086.
- Teas. Retail Grocers' Exchange of New York City. No. 74,742; Aug. 3; Gaz. vol. 145; p. 253.
- Teas. Campbell & Woods Company. No. 76,087; Dec. 14; Gaz. vol. 149; p. 597.
- Teas, Blended. A. Koppel. No. 73,851; May 25; Gaz. vol. 142; p. 1110.
- Teas, Blended. New Orleans Import Co. No. 75,213; Sept. 14; Gaz. vol. 146; p. 502.
- Teeth, Artificial. Pennsylvania Dental Mfg Co. No. 75,214; Sept. 14; Gaz. vol. 146; p. 502.
- Telephone instruments. Phone-Hear-Plain Company. No. 74,695; Aug. 3; Gaz. vol. 145; p. 251.
- Telephones. Standard Manufacturing Co. No. 72,260; Jan. 12; Gaz. vol. 138; p. 524.
- Textile fabrics, Certain. Burch, Bailey & Co. No. 72,143; Jan. 5; Gaz. vol. 138; p. 252.
- Textiles, Certain. Remy Schmidt & Fleissner. No. 72,808; Feb. 23; Gaz. vol. 139; p. 986.
- Textiles, Certain. H. W. Brush. No. 73,253; Apr. 6; Gaz. vol. 141; p. 281.

*Alphabetical list of trade-marks—Continued.*

- Textiles, Certain. Friedman & Krieger. Nos. 73,515-16; Apr. 27; Gaz. vol. 141; p. 1158.  
 Textiles, Certain. Amoskeag Manufacturing Company. No. 74,194; June 22; Gaz. vol. 143; p. 1105.  
 Textiles, Certain. M. Goldenberg. No. 74,222; June 29; Gaz. vol. 143; p. 1339.  
 Textiles, Certain. Rey aín. No. 74,265; June 29; Gaz. vol. 143; p. 1340.  
 Textiles, Certain. Tootle-Campbell Dry Goods Co. No. 75,064; Aug. 31; Gaz. vol. 145; p. 1246.  
 Textiles, Certain. Tootle-Campbell Dry Goods Co. No. 75,339; Sept. 21; Gaz. vol. 146; p. 717.  
 Textiles, Certain. F. A. Foster & Co. Nos. 75,533-4; Oct. 12; Gaz. vol. 147; p. 514.  
 Textiles, Certain. Trippe, Barker & Company. No. 75,885; Nov. 23; Gaz. vol. 148; p. 1082.  
 Textiles, Certain. China & Japan Trading Company. Nos. 76,007-8; Dec. 7; Gaz. vol. 149; p. 305.  
 Textiles, Certain. China & Japan Trading Company. No. 76,057; Dec. 7; Gaz. vol. 149; p. 307.  
 Textiles, Certain. American Fibre Matting Company. No. 76,097; Dec. 14; Gaz. vol. 149; p. 598.  
 Textiles, Certain. Stonewall Cotton Mills. No. 76,233; Dec. 28; Gaz. vol. 149; p. 1116.  
 Thermometers, Oven-. Cooper Oven Thermometer Company. No. 72,098; Jan. 5; Gaz. vol. 138; p. 251.  
 Thread, floss, and rope for ornamental purposes. B. Ulmann & Co. No. 72,392; Jan. 19; Gaz. vol. 138; p. 765.  
 Thread for machine and hand sewing. Bullard Thread Company. Nos. 74,431-2; July 13; Gaz. vol. 144; p. 558.  
 Thread, Sewing-. Upham Bros. & Company. No. 72,508; Jan. 26; Gaz. vol. 138; p. 962.  
 Thread, Sewing-. Upham Bros. & Company. No. 73,350; Apr. 13; Gaz. vol. 141; p. 562.  
 Thread, Sewing-. Upham Bros. & Company. No. 74,976; Aug. 24; Gaz. vol. 145; p. 1018.  
 Thread, spool and sewing cotton. American Thread Company. No. 72,545; Feb. 2; Gaz. vol. 139; p. 194.  
 Thread, spool and sewing cotton, and cotton yarn. American Thread Company. Nos. 73,968-71; June 8; Gaz. vol. 143; p. 557.  
 Thread, spool and sewing cotton, and cotton yarn. American Thread Company. Nos. 74,357-8; July 6; Gaz. vol. 144; p. 272.  
 Threads, Cotton, linen, and silk. Singer Manufacturing Company. No. 74,873; Aug. 17; Gaz. vol. 145; p. 759.  
 Thrashing machinery. W. H. Butterworth & Bro. No. 73,358; Apr. 13; Gaz. vol. 141; p. 562.  
 Thrashing-machines, grain-separators, and parts thereof. J. I. Case Thrashing Machine Company. No. 72,871; Mar. 2; Gaz. vol. 140; p. 249.  
 Tile and bricks. Reynoldsville Brick & Tile Co. No. 74,743; Aug. 3; Gaz. vol. 145; p. 253.  
 Tin and sheet-iron receptacles. Dover Stamping and Manufacturing Company. No. 75,528; Oct. 12; Gaz. vol. 147; p. 514.  
 Tires and inner and outer tubes therefor. R. A. C. Esnault-Pelterie. No. 72,358; Jan. 19; Gaz. vol. 138; p. 764.  
 Tires of rubber or rubber and fabric. Hartford Rubber Works Company. No. 76,146; Dec. 21; Gaz. vol. 149; p. 829.  
 Tires, Rubber. Empire Automobile Tire Co. No. 75,204; Sept. 14; Gaz. vol. 146; p. 501.  
 Tires, Rubber. Hartford Rubber Works Co. No. 76,209; Dec. 28; Gaz. vol. 149; p. 1115.  
 Tires, Rubber vehicle-. Shawmut Tire Co. No. 76,081; Dec. 14; Gaz. vol. 149; p. 597.  
 Tires, Rubber wheel-. Hartford Rubber Works Company. No. 73,363; Apr. 13; Gaz. vol. 141; p. 562.  
 Tires, Solid and pneumatic rubber vehicle-. Goodyear Tire and Rubber Company. No. 72,867; Mar. 2; Gaz. vol. 140; p. 249.  
 Tobacco, Chemical to remove odors from. C. A. Goldsmith. No. 75,051; Aug. 31; Gaz. vol. 145; p. 1245.  
 Tobacco, Chewing-. M. Sobrino. No. 74,486; July 13; Gaz. vol. 144; p. 559.  
 Tobacco, cigars, and cigarettes. V. M. Gowdy. No. 75,052; Aug. 31; Gaz. vol. 145; p. 1245.  
 Tobacco, cigars, and cigarettes. Penn Tobacco Co. No. 75,285; Sept. 21; Gaz. vol. 146; p. 715.  
 Tobacco, cigars, and cigarettes, Smoking-. G. Phillips & Sons. No. 74,352; July 6; Gaz. vol. 144; p. 272.  
 Tobacco, cigars, cigarettes, and snuff. Carreras Limited. Nos. 76,139-40; Dec. 21; Gaz. vol. 149; p. 829.  
 Tobacco, cigars, cigarettes, and snuff, Smoking and chewing. Carreras Limited. No. 76,247; Dec. 28; Gaz. vol. 149; p. 1116.  
 Tobacco-flavoring extract. M. Greenberg. No. 74,131; June 22; Gaz. vol. 143; p. 1103.  
 Tobacco-pipes. Adolph Frankau & Co. No. 74,539; July 20; Gaz. vol. 144; p. 814.  
 Tobacco-pipes. A. Oppenheimer & Co. No. 75,646; Oct. 26; Gaz. vol. 147; p. 1032.  
 Tobacco-pipes and parts thereof. P. J. Breen. No. 74,879; Aug. 17; Gaz. vol. 145; p. 759.  
 Tobacco-pipes, cigar and cigarette holders. Marechal, Ruchon & Co. No. 72,556; Feb. 2; Gaz. vol. 139; p. 194.  
 Tobacco, Plug-. I. Brandon & Brothers. No. 74,337; July 6; Gaz. vol. 144; p. 272.  
 Tobacco-pouches. Self-Closing Pouch Company. No. 73,809; May 18; Gaz. vol. 142; p. 853.  
 Tobacco, Smoking-. Falk Tobacco Company. No. 72,765; Feb. 16; Gaz. vol. 139; p. 727.  
 Tobacco, Smoking-. N. Wilentz. No. 73,249; Apr. 6; Gaz. vol. 141; p. 281.  
 Tobacco, Smoking-. B. Wilentz. No. 74,191; June 22; Gaz. vol. 143; p. 1105.  
 Tobacco, Smoking-. Falk Tobacco Co. No. 74,344; July 6; Gaz. vol. 144; p. 272.  
 Toffey. C. C. W. McLeod. No. 73,180; Mar. 23; Gaz. vol. 140; p. 998.  
 Toilet deodorants. S. J. Deal. No. 72,837; Mar. 2; Gaz. vol. 140; p. 249.  
 Toilet emollients. Coralene Curative Company. No. 76,176; Dec. 21; Gaz. vol. 149; p. 830.  
 Toilet preparation. Osborne, Bauer & Cheeseman. No. 73,339; Apr. 13; Gaz. vol. 141; p. 562.  
 Toilet preparation. E. D. Thomas. No. 75,262; Sept. 14; Gaz. vol. 146; p. 503.  
 Toilet preparation, Certain. Max Elb, Gesellschaft mit beschränkter Haftung. No. 73,335; Apr. 13; Gaz. vol. 141; p. 561.  
 Toilet preparations. M. Gavin. No. 74,809; Aug. 10; Gaz. vol. 145; p. 508.  
 Toilet preparations. C. B. Woodworth Sons Co. No. 75,597; Oct. 26; Gaz. vol. 147; p. 1031.  
 Toilet preparations, Certain. De Meridor Co. No. 72,324; Jan. 19; Gaz. vol. 138; p. 763.  
 Toilet preparations, Certain. P. A. Houghton. No. 72,605; Feb. 9; Gaz. vol. 139; p. 457.  
 Toilet preparations, Certain. Paul Rieger & Co. No. 73,627; May 4; Gaz. vol. 142; p. 284.  
 Toilet water. Eleto Company. No. 74,409; July 13; Gaz. vol. 144; p. 557.  
 Toilet water. Eleto Company. No. 74,411; July 13; Gaz. vol. 144; p. 557.  
 Toilet water. Eleto Company. No. 74,964; Aug. 24; Gaz. vol. 145; p. 1017.  
 Tonic. W. N. Foster. No. 72,189; Jan. 5; Gaz. vol. 138; p. 254.  
 Tonic. Father Morrissey Medicine Company. No. 76,111; Dec. 14; Gaz. vol. 149; p. 598.  
 Tonic and blood-purifier, System-. L. A. Mackintosh. No. 74,415; July 13; Gaz. vol. 144; p. 557.  
 Tonic beverage. R. Moore. No. 74,074; June 15; Gaz. vol. 143; p. 860.  
 Tonic beverage. D. Brown. No. 75,500; Oct. 12; Gaz. vol. 147; p. 513.  
 Tonic beverage. H. L. McCrary. No. 75,655; Oct. 26; Gaz. vol. 147; p. 1032.  
 Tonic beverage and syrup for making the same. G. L. Wainscott. No. 74,843; Aug. 10; Gaz. vol. 145; p. 509.  
 Tonic beverage and syrup therefor, Carbonated. Parker-Browne Company. No. 72,662; Feb. 9; Gaz. vol. 139; p. 458.  
 Tonic beverage, Carbonated. N. P. Thomas. No. 74,839; Aug. 10; Gaz. vol. 145; p. 509.  
 Tonic beverage, Carbonated. Suffolk Drug Corporation. No. 76,262; Dec. 28; Gaz. vol. 149; p. 1117.  
 Tonic beverage, Non-alcoholic carbonated. White Seal Bottling Co. No. 72,137; Jan. 5; Gaz. vol. 138; p. 252.  
 Tonic beverage, Non-alcoholic carbonated. W. B. Nethery. No. 73,541; Apr. 27; Gaz. vol. 141; p. 1158.  
 Tonic beverages. H. P. Leftwich. No. 75,654; Oct. 26; Gaz. vol. 147; p. 1032.  
 Tonic beverages, Carbonated. W. B. Hays Bottling Co. No. 75,174; Sept. 7; Gaz. vol. 146; p. 253.  
 Tonic, Bitter-wine. Union Wholesale Liquor Co. No. 74,876; Aug. 17; Gaz. vol. 145; p. 759.  
 Tonic for horses, Blood-. Fairfield Mfg. Co. Inc. No. 73,974; June 8; Gaz. vol. 143; p. 557.  
 Tonic, Nerve-. P. H. Gillon. No. 75,050; Aug. 31; Gaz. vol. 145; p. 1245.  
 Tonic tablets. J. S. Falck. No. 72,452; Jan. 26; Gaz. vol. 138; p. 960.  
 Tonic, tablets, cough-syrup, &c. Natona Co. No. 74,909; Aug. 17; Gaz. vol. 145; p. 760.  
 Tonic, Uterine. Gardiner Pharmacal Co. No. 74,656; July 27; Gaz. vol. 144; p. 1087.  
 Tonics. R. J. McKee. No. 72,491; Jan. 26; Gaz. vol. 138; p. 961.  
 Tonics and restoratives for horses. W. J. Anderson. No. 74,084; June 15; Gaz. vol. 143; p. 860.  
 Tonics, Stock-. Anglo-American Stock Food Company. No. 76,171; Dec. 21; Gaz. vol. 149; p. 830.  
 Tool, Combination-. I. C. Imboden. No. 72,368; Jan. 19; Gaz. vol. 138; p. 764.  
 Tool-handles. Ivory Handle Co. No. 75,644; Oct. 26; Gaz. vol. 147; p. 1032.  
 Tool-handles, Wooden. Turner, Day & Woolworth Handle Co. No. 76,036; Dec. 7; Gaz. vol. 149; p. 306.  
 Tool-handles, Wooden. Turner, Day & Woolworth Handle Co. No. 76,220; Dec. 28; Gaz. vol. 149; p. 1115.  
 Tool-handles, Wooden. Turner, Day & Woolworth Handle Co. Nos. 76,235-40; Dec. 28; Gaz. vol. 149; p. 1116.  
 Tools. Syracuse Twist Drill Company. No. 74,395; July 6; Gaz. vol. 144; p. 273.  
 Tools and machinery, Certain. Daimler-Motoren-Gesellschaft. No. 76,020; Dec. 7; Gaz. vol. 149; p. 306.  
 Tools and machines, Certain. Simplex Manufacturing Company. No. 74,744; Aug. 3; Gaz. vol. 145; p. 253.  
 Tools and machines, Certain. Janney, Semple, Hill & Co. No. 75,476; Oct. 5; Gaz. vol. 147; p. 232.  
 Tools and machines, Certain named. Buffum Tool Co. No. 75,037; Aug. 31; Gaz. vol. 145; p. 1245.  
 Tools and parts of machinery, Certain. J. J. Saville & Company. No. 75,804; Nov. 16; Gaz. vol. 148; p. 828.  
 Tools, Certain. United Shoe Machinery Company. No. 72,305; Jan. 12; Gaz. vol. 138; p. 525.  
 Tools, Certain. Cammell Laird & Co. No. 74,062; June 15; Gaz. vol. 143; p. 859.  
 Tools, Certain hand-. Stanley Rule & Level Company. No. 73,401; Apr. 13; Gaz. vol. 141; p. 563.



*Alphabetical list of trade-marks—Continued.*

- Tools for dressing abrasive and polishing wheels. Curtin-Hebert Anthony Co. No. 74,442; July 13; Gaz. vol. 144; p. 558.
- Tooth-paste. K. Hermann. No. 73,066; Mar. 16; Gaz. vol. 140; p. 751.
- Tooth-paste. Dental Drug Co. No. 75,224; Sept. 14; Gaz. vol. 146; p. 502.
- Tooth washes, paste, and powder. W. A. Briggs. No. 74,309; July 6; Gaz. vol. 144; p. 271.
- Toothpicks. A. Herz. No. 73,562; Apr. 27; Gaz. vol. 141; p. 1159.
- Toweling. Slater Manufacturing Company. Nos. 75,718-19; Nov. 9; Gaz. vol. 148; p. 565.
- Towels. Oxford Linen Mills. No. 73,869; May 25; Gaz. vol. 142; p. 1110.
- Toy animal-figures. M. E. Wing. No. 74,713; Aug. 3; Gaz. vol. 145; p. 252.
- Toy banks. Durable Toy and Novelty Company. No. 73,778; May 18; Gaz. vol. 142; p. 852.
- Toy flying-machines. H. J. Nice Company. No. 76,231; Dec. 28; Gaz. vol. 149; p. 1116.
- Toy projecting apparatus. A. J. A. Deperdussin. No. 74,273; June 29; Gaz. vol. 143; p. 1340.
- Toys. Margarete Steiff, Gesellschaft mit beschränkter Haftung. No. 73,645; May 4; Gaz. vol. 142; p. 285.
- Toys. A. Schoenhut Company. No. 75,675; Nov. 2; Gaz. vol. 148; p. 275.
- Toys, Certain. A. Schoenhut Company. No. 74,102; June 15; Gaz. vol. 143; p. 861.
- Traps and bends, Lead. National Lead Company. No. 73,373; Apr. 13; Gaz. vol. 141; p. 563.
- Traps and valves. G. Cody. No. 73,001; Mar. 9; Gaz. vol. 140; p. 502.
- Trousers. J. Rabinowitz. No. 74,509; July 20; Gaz. vol. 144; p. 813.
- Trunks, satchels, portfolios, and pocket-books. G. & K. Trunk Company. No. 75,397; Sept. 28; Gaz. vol. 146; p. 954.
- Trusses. Chesterman & Streeter. No. 73,911; June 1; Gaz. vol. 143; p. 253.
- Tube expanders and cutters. G. Wiedeke & Co. No. 72,954; Mar. 2; Gaz. vol. 140; p. 252.
- Tuberculosis, Preparation for the treatment of. A. G. Meyer. No. 72,719; Feb. 16; Gaz. vol. 139; p. 725.
- Tubing and hose, Certain. New Jersey Car Spring & Rubber Co. No. 72,163; Jan. 5; Gaz. vol. 138; p. 253.
- Tulles, muslins, crapes, and silks. Perret, Gros & Million. No. 72,821; Feb. 23; Gaz. vol. 139; p. 986.
- Turbine blowers and engines. L. J. Wing Mfg. Co. No. 74,071; June 15; Gaz. vol. 143; p. 860.
- Turpentine and substitute therefor, Spirits of. Sun Company. Nos. 72,673-5; Feb. 9; Gaz. vol. 139; p. 459.
- Turpentine substitute. Standard Oil Co. of New York. No. 72,730; Feb. 16; Gaz. vol. 139; p. 726.
- Turpentine substitute. Standard Oil Co. of New York. No. 73,651; May 4; Gaz. vol. 142; p. 285.
- Twine. Beaumont Manufacturing Company. No. 74,602; July 27; Gaz. vol. 144; p. 1085.
- Twine, Binder-. Sears, Roebuck and Co. No. 74,241; June 29; Gaz. vol. 143; p. 1339.
- Twine, Binder-. Lockwood-Luetkemeyer-Henry Company. No. 75,827; Nov. 16; Gaz. vol. 148; p. 829.
- Type-bars, Machines for producing. Mergenthaler Linotype Company. No. 74,289; June 29; Gaz. vol. 143; p. 1341.
- Type-cleaning compound. Duryea Manufacturing Co. No. 72,982; Mar. 9; Gaz. vol. 140; p. 501.
- Type-writer ribbon and carbon-paper. How Company. No. 75,938; Nov. 30; Gaz. vol. 148; p. 1339.
- Type-writer ribbons and carbon-papers. How Co. No. 74,967; Aug. 24; Gaz. vol. 145; p. 1017.
- Type-writers and parts thereof. International Text Book Company. No. 76,149; Dec. 21; Gaz. vol. 149; p. 829.
- Type-writing machine. Wyckoff, Seamans & Benedict. No. 72,306; Jan. 12; Gaz. vol. 138; p. 525.
- Type-writing machines and parts thereof. Victor Typewriter Company. No. 74,673; July 27; Gaz. vol. 144; p. 1087.
- Umbrellas. Follmer, Clogg & Co. No. 75,078; Aug. 31; Gaz. vol. 145; p. 1246.
- Umbrellas and parasols. W. H. Beehler. No. 73,315; Apr. 13; Gaz. vol. 141; p. 561.
- Umbrellas, Folding. Rose Brothers and Company. No. 74,258; June 29; Gaz. vol. 143; p. 1340.
- Undergarment, Combination. Charles R. De Bevoise Co. No. 73,320; Apr. 13; Gaz. vol. 141; p. 561.
- Undergarments, Ladies'. American Undergarment Co. No. 72,858; Mar. 2; Gaz. vol. 140; p. 249.
- Undershirts, drawers, and union suits. Argyle Co. No. 72,700; Feb. 16; Gaz. vol. 139; p. 725.
- Undershirts, drawers, and union suits. Argyle Co. No. 75,551; Oct. 19; Gaz. vol. 147; p. 767.
- Undershirts, drawers, and union suits. Cooper M'fg Co. No. 75,072; Aug. 31; Gaz. vol. 145; p. 1246.
- Underskirts. Schiff & Bloom. No. 73,927; June 1; Gaz. vol. 143; p. 254.
- Underskirts, nightgowns, and dressing-sacks. K. A. Feore & Co. No. 75,854; Nov. 23; Gaz. vol. 148; p. 1081.
- Underwear. High Rock Knitting Co. No. 74,175; June 22; Gaz. vol. 143; p. 1104.
- Underwear, Combination. R. Bardenheuer. No. 74,247; June 29; Gaz. vol. 143; p. 1340.
- Underwear, Ladies'. Schiele Bros. No. 74,076; June 15; Gaz. vol. 143; p. 860.
- Underwear, Ladies' embroidered and lace-trimmed muslin. Ben Strauss Company. No. 73,231; Apr. 6; Gaz. vol. 141; p. 281.
- Underwear, Ladies' muslin. Katz Underwear Company. No. 73,590; May 4; Gaz. vol. 142; p. 283.
- Unions and valves. Illinois Malleable Iron Co. No. 72,655; Feb. 9; Gaz. vol. 139; p. 458.
- Vaccine virus for animals. Pasteur Vaccine Company. No. 75,773; Nov. 16; Gaz. vol. 148; p. 827.
- Valves. Peerless Rubber Manufacturing Company. No. 73,953; June 1; Gaz. vol. 143; p. 255.
- Valves. Chapman Valve Manufacturing Company. No. 74,436; July 13; Gaz. vol. 144; p. 558.
- Valves. Safety Cylinder Valve Company. No. 75,097; Aug. 31; Gaz. vol. 145; p. 1247.
- Valves. H. Belfield Co. No. 76,207; Dec. 28; Gaz. vol. 149; p. 1115.
- Valves and valve-fittings. Consolidated Engineering Co. No. 75,959; Nov. 30; Gaz. vol. 148; p. 1340.
- Valves, Fluid-. C. E. Norman. No. 73,376; Apr. 13; Gaz. vol. 141; p. 563.
- Valves, Safety-. Simplex Manufacturing Company. No. 74,631; July 27; Gaz. vol. 144; p. 1086.
- Valves, Safety-. Simplex Manufacturing Company. No. 74,666; July 27; Gaz. vol. 144; p. 1087.
- Valves, sluice-gates, hydrants, &c. Chapman Valve Manufacturing Company. No. 74,920; Aug. 17; Gaz. vol. 145; p. 761.
- Varnish. Crown Varnish and Enamel Company. No. 76,106; Dec. 14; Gaz. vol. 149; p. 598.
- Varnish. A. F. Hughes. No. 76,211; Dec. 28; Gaz. vol. 149; p. 1115.
- Varnishes. Keystone Varnish Company. No. 75,906; Nov. 23; Gaz. vol. 148; p. 1083.
- Varnishes, primers, and ready-mixed paints. Chicago Varnish Co. No. 75,932; Nov. 30; Gaz. vol. 148; p. 1339.
- Vegetable compound extracts. R. Vélez. No. 74,672; July 27; Gaz. vol. 144; p. 1087.
- Vegetable compound used as a catarrh remedy. W. D. Fitzpatrick. No. 73,328; Apr. 13; Gaz. vol. 141; p. 561.
- Vehicle brake and clutch pads. Royal Equipment Company. No. 74,306; June 29; Gaz. vol. 143; p. 1341.
- Vehicle fifth-wheels and gear-irons. Herbrand Co. No. 75,368; Sept. 28; Gaz. vol. 146; p. 953.
- Vehicle-wheel chain grips. Motor Improvement Company. No. 75,374; Sept. 28; Gaz. vol. 146; p. 953.
- Vehicles and parts thereof, Certain. Neckarsulmer Fahrradwerke, Act.-Ges. No. 76,184; Dec. 21; Gaz. vol. 149; p. 830.
- Velings, Chiffon. S. Oppenheimer & Levy. No. 72,773; Feb. 16; Gaz. vol. 139; p. 727.
- Velocipedes, &c., Brakes for. E. M. Bowden's Patents Syndicate. No. 76,108; Dec. 14; Gaz. vol. 149; p. 598.
- Vermix-exterminator. L. Keppler. No. 72,456; Jan. 26; Gaz. vol. 138; p. 960.
- Vinegar. Oliver-Finnie Co. No. 73,111; Mar. 16; Gaz. vol. 140; p. 752.
- Vinegar, Apple-. Kistler Brothers. No. 72,963; Mar. 9; Gaz. vol. 140; p. 501.
- Vinegar, Cider-. Price & Lucas Cider & Vinegar Co. No. 72,757; Feb. 16; Gaz. vol. 139; p. 726.
- Violins, bows, strings, pegs, and parts of violins. S. Buegelesien. No. 73,233; Apr. 6; Gaz. vol. 141; p. 281.
- Vise-stand and work-bench, Combination. International Electric & Engineering Co. No. 72,424; Jan. 26; Gaz. vol. 138; p. 960.
- Wagon and other vehicle dash-curtains. National Curtain Company. No. 73,453; Apr. 20; Gaz. vol. 141; p. 862.
- Wagons. Florence Wagon Works. No. 75,934; Nov. 30; Gaz. vol. 148; p. 1339.
- Waists, Ladies'. Anekstein & Kram. No. 72,265; Jan. 12; Gaz. vol. 138; p. 524.
- Waists, shirt-waists, and shirt-waist suits, Ladies'. N. Gordon. No. 73,587; May 4; Gaz. vol. 142; p. 283.
- Wall and ceiling decorative fabric. Kochmann-Stallforth Co. No. 74,017; June 8; Gaz. vol. 143; p. 558.
- Wall finishes, enamels, and varnishes, Flat. Keystone Varnish Company. No. 72,686; Feb. 9; Gaz. vol. 139; p. 459.
- Wall-finishing compositions. J. B. King & Co. No. 74,230; June 29; Gaz. vol. 143; p. 1339.
- Washboards. S. Hamill Company. No. 73,787; May 18; Gaz. vol. 142; p. 852.
- Washboards. Wayne Manufacturing Company. No. 75,197; Sept. 14; Gaz. vol. 146; p. 501.
- Washboards. Cleveland Washboard Co. No. 76,019; Dec. 7; Gaz. vol. 149; p. 306.
- Washboilers. H. Shapiro. No. 75,792; Nov. 16; Gaz. vol. 148; p. 828.
- Washing compound, Chemical. L. M. Voight. No. 73,986; June 8; Gaz. vol. 143; p. 557.
- Washing compound, Detergent. H. F. Blakeley. No. 72,240; Jan. 12; Gaz. vol. 138; p. 523.
- Washing fluids, Detergent. J. W. Cheshier. No. 72,958; Mar. 9; Gaz. vol. 140; p. 501.
- Washing-machines. Parsons Hawkeye Manufacturing Company. No. 72,183; Jan. 5; Gaz. vol. 138.
- Washing-machines. Wayne Manufacturing Company. Nos. 75,176-7; Sept. 7; Gaz. vol. 146; p. 253.
- Washing-machines. Hawkeye Incubator Co. No. 75,401; Sept. 28; Gaz. vol. 146; p. 954.
- Washing-machines and washboards. Wayne Manufacturing Company. No. 75,175; Sept. 7; Gaz. vol. 146; p. 253.
- Washing-powder. Roessler & Hasslacher Chemical Co. No. 73,192; Mar. 30; Gaz. vol. 140; p. 1203.
- Washing-powder. Roessler & Hasslacher Chemical Co. No. 73,723; May 11; Gaz. vol. 142; p. 564.
- Washing-powder. Roach Brothers. No. 75,381; Sept. 28; Gaz. vol. 146; p. 954.
- Washing-powder, Chemical. Warner Chemical Co. No. 75,238; Sept. 14; Gaz. vol. 146; p. 502.

*Alphabetical list of trade-marks—Continued.*

- Washing-powder, Detergent. National Soap and Chemical Co. No. 72,406; Jan. 26; Gaz. vol. 138; p. 959.
- Watch-fobs and badges. G. A. Schlechter. No. 75,259; Sept. 14; Gaz. vol. 146; p. 503.
- Watch-glass cabinets. Hammel Riglander & Co. No. 73,123; Mar. 16; Gaz. vol. 140; p. 753.
- Watches. Marshall Field & Company. No. 73,745; May 18; Gaz. vol. 142; p. 851.
- Watches and parts thereof. Ancienne manufacture d'horlogerie, Patek, Philippe et Co., société anonyme. No. 72,349; Jan. 19; Gaz. vol. 139; p. 764.
- Watches and watch-movements. J. Racine and Company. No. 72,572; Feb. 2; Gaz. vol. 139; p. 194.
- Watches and watchcases. Western Agency Omega Watch Company. No. 73,749; May 18; Gaz. vol. 142; p. 851.
- Watches, watch cases and movements. Philadelphia Watch Case Co. No. 75,144; Sept. 7; Gaz. vol. 146; p. 252.
- Watches, watch cases, movements, and dials. M. Woog. No. 74,714; Aug. 3; Gaz. vol. 145; p. 252.
- Watches, watchcases, and watch-movements. American-Swiss Watch Co. Nos. 73,486-7; Apr. 27; Gaz. vol. 141; p. 1157.
- Water, Aerated. T. V. Riordan. No. 75,146; Sept. 7; Gaz. vol. 146; p. 252.
- Water, Aperient. M. D. Batchelder. No. 73,581; May 4; Gaz. vol. 142; p. 283.
- Water, Aperient. R. and O. von Palotay de Várpalota. No. 73,759; May 18; Gaz. vol. 142; p. 851.
- Water, Artificial aperient. M. H. Hudson, Jr. No. 75,474; Oct. 5; Gaz. vol. 147; p. 232.
- Water, Artificial mineral. Chas. Meisezahl M'fg. Co. No. 75,429; Oct. 5; Gaz. vol. 147; p. 231.
- Water-closet seats. J. A. Lund. No. 72,540; Feb. 2; Gaz. vol. 139; p. 193.
- Water-closet seats made of paper, Sanitary cover for. W. R. Macdonald. No. 74,508; July 20; Gaz. vol. 144; p. 813.
- Water-closets. Cochran, Drugan & Co. No. 73,000; Mar. 9; Gaz. vol. 140; p. 502.
- Water-closets. L. M. Rumsey Manufacturing Company. Nos. 74,379-84; July 6; Gaz. vol. 144; p. 273.
- Water-closets. L. M. Rumsey Manufacturing Company. No. 74,627; July 27; Gaz. vol. 144; p. 1086.
- Water-closets. L. M. Rumsey Manufacturing Company. Nos. 75,807-8; Nov. 16; Gaz. vol. 148; p. 828.
- Water, Machine to soften and purify. Dodge Manufacturing Company. No. 73,936; June 1; Gaz. vol. 143; p. 254.
- Water, Natural lithia-. J. P. Porter. No. 72,233; Jan. 12; Gaz. vol. 138; p. 523.
- Water, Natural mineral. A. Saxlehner. Nos. 73,036-7; Mar. 9; Gaz. vol. 140; p. 503.
- Water, Natural mineral. Crazy Well Water Company of Mineral Wells. No. 73,912; June 1; Gaz. vol. 143; p. 253.
- Water, Natural mineral. Mt. Shasta Mineral Spring Co. No. 74,564; July 20; Gaz. vol. 144; p. 815.
- Water, Natural mineral. Matchless Mineral Water Company. No. 75,316; Sept. 21; Gaz. vol. 146; p. 716.
- Water, Natural mineral. Coyle & Caywood. No. 76,142; Dec. 21; Gaz. vol. 149; p. 829.
- Water, Table-. Mine Rock Co. No. 74,740; Aug. 3; Gaz. vol. 145; p. 253.
- Waters and non-alcoholic tonic beverages, Certain named. S. A. Ludin & Co. No. 74,988; Aug. 24; Gaz. vol. 145; p. 1018.
- Waters and tonic beverages, Spring and artificial. S. A. Ludin & Co. No. 74,952; Aug. 24; Gaz. vol. 145; p. 1017.
- Waters, Natural mineral. I. S. Hirschler. No. 74,202; June 22; Gaz. vol. 143; p. 1105.
- Waters, Natural mineral. Gibson Well Water Co. No. 74,650; July 27; Gaz. vol. 144; p. 1087.
- Waters, Natural mineral. Königliche Regierung Abteilung für direkte Steuern Domänen und Forsten in Wiesbaden. No. 76,028; Dec. 7; Gaz. vol. 149; p. 306.
- Waterproof textile oiled fabrics. A. J. Tower Company. No. 72,345; Jan. 19; Gaz. vol. 138; p. 764.
- Waterproofed baby-pants and diaper-covers. I. B. Kleinert Rubber Company. No. 74,251; June 29; Gaz. vol. 143; p. 1340.
- Waterproofing coating. F. O. Pierce Co. No. 75,841; Nov. 23; Gaz. vol. 148; p. 1081.
- Wax, both white and yellow, Bees-. Will & Baumer Company. No. 75,494; Oct. 5; Gaz. vol. 147; p. 233.
- Wax, Floor-. C. W. Snow & Co. No. 74,087; June 15; Gaz. vol. 143; p. 860.
- Wax, Ironing-. S. Bernstein. No. 74,403; July 13; Gaz. vol. 144; p. 557.
- Weather-strips. A. R. Groome. No. 72,767; Feb. 16; Gaz. vol. 139; p. 727.
- Weed and grass destroyer. I. F. Orton. No. 73,626; May 4; Gaz. vol. 142; p. 284.
- Wheel-tires, Rubber or rubber and fabric. Hartford Rubber Works Company. No. 73,006; Mar. 9; Gaz. vol. 140; p. 502.
- Wheel-tires, Rubber or rubber and fabric. Hartford Rubber Works Company. No. 73,042; Mar. 9; Gaz. vol. 140; p. 503.
- Wheels, Sprocket-. Link-Belt Company. No. 74,987; Aug. 24; Gaz. vol. 145; p. 1018.
- Wheelbarrows. Kilbourne & Jacobs Mfg. Co. No. 74,690; Aug. 3; Gaz. vol. 145; p. 251.
- Whips. L. H. Beals & Son Co. No. 73,261; Apr. 6; Gaz. vol. 141; p. 282.
- Whips. H. M. Van Deusen Whip Co. No. 73,556; Apr. 27; Gaz. vol. 141; p. 1159.
- Whips. H. M. Van Deusen Whip Co. No. 74,492; July 13; Gaz. vol. 144; p. 559.
- Whips. Smith & Stoddard Company. No. 75,457; Oct. 5; Gaz. vol. 147; p. 232.
- Whiskies, Blend of rye. H. Fleckenstein. No. 72,597; Feb. 2; Gaz. vol. 139; p. 195.
- Whiskies, Blend of straight rye. F. Handrich & Sons. No. 72,221; Jan. 12; Gaz. vol. 138; p. 523.
- Whiskies, Blend of straight Scotch. Distillers Company. No. 73,935; June 1; Gaz. vol. 143; p. 254.
- Whiskies, Blended Scotch. Mitchell Brothers. No. 73,476; Apr. 20; Gaz. vol. 141; p. 863.
- Whiskies, Dry gin, and Jamaica rum, Blended Irish. Edward & John Burke. No. 72,150; Jan. 5; Gaz. vol. 138; p. 252.
- Whiskies, Straight rye. D. L. Arey Distilling Co. No. 74,998; Aug. 24; Gaz. vol. 145; p. 1018.
- Whisky. J. & J. Eager Co. No. 73,714; May 11; Gaz. vol. 142; p. 564.
- Whisky. A. Thiel. No. 73,960; June 1; Gaz. vol. 143; p. 255.
- Whisky. M. Shaghnessy Distilling Co. No. 74,533; July 20; Gaz. vol. 144; p. 814.
- Whisky. W. A. Gaines & Company. No. 74,537; July 20; Gaz. vol. 144; p. 814.
- Whisky. A. Halliday & Company. No. 75,199; Sept. 14; Gaz. vol. 146; p. 501.
- Whisky. J. Daniel. No. 75,469; Oct. 5; Gaz. vol. 147; p. 232.
- Whisky. J. & J. Eager Co. No. 75,475; Oct. 5; Gaz. vol. 147; p. 232.
- Whisky. J. & J. Eager Co. No. 75,482; Oct. 5; Gaz. vol. 147; p. 232.
- Whisky. Clarke Bros. & Co. No. 75,502; Oct. 12; Gaz. vol. 147; p. 513.
- Whisky. Parls, Allen & Company. No. 75,716; Nov. 9; Gaz. vol. 148; p. 565.
- Whisky. I. Hecht & Bro. No. 75,849; Nov. 23; Gaz. vol. 148; p. 1081.
- Whisky. Jim McCoy Distilling Co. No. 76,050; Dec. 7; Gaz. vol. 149; p. 307.
- Whisky. Theobald and Son Co. No. 76,218; Dec. 28; Gaz. vol. 149; p. 1115.
- Whisky. Geo. T. Stagg Co. No. 76,229; Dec. 28; Gaz. vol. 149; p. 1116.
- Whisky and blended whiskies, Straight rye. Geo. W. Torrey Co. No. 75,311; Sept. 21; Gaz. vol. 146; p. 716.
- Whisky, Blend of. P. Welty & Co. No. 75,376; Sept. 28; Gaz. vol. 146; p. 953.
- Whisky, Blended. Luyties Brothers. No. 72,771; Feb. 16; Gaz. vol. 139; p. 727.
- Whisky, Blended. L. W. Levy & Co. No. 72,964; Mar. 9; Gaz. vol. 140; p. 501.
- Whisky, Blended. James Olwell & Co. Nos. 73,009-10; Mar. 9; Gaz. vol. 140; p. 502.
- Whisky, Blended. F. A. Flynn. No. 73,175; Mar. 23; Gaz. vol. 140; p. 998.
- Whisky, Blended. M. Shaghnessy Distilling Co. No. 73,733; May 11; Gaz. vol. 142; p. 565.
- Whisky, Blended. M. Shaghnessy Distilling Co. No. 73,742; May 11; Gaz. vol. 142; p. 565.
- Whisky, Blended. W. Schuman. No. 74,512; July 20; Gaz. vol. 144; p. 813.
- Whisky, Blended. Bigbie Bros. & Co. No. 74,622; July 27; Gaz. vol. 144; p. 1086.
- Whisky, Blended. L. Ginochio & Sons. No. 74,767; Aug. 10; Gaz. vol. 145; p. 507.
- Whisky, Blended. M. J. Handler. No. 75,399; Sept. 28; Gaz. vol. 146; p. 954.
- Whisky, Blended. Union Distilling Co. No. 75,832; Nov. 16; Gaz. vol. 148; p. 829.
- Whisky, Blended Bourbon and blended rye. J. Miller & Co. No. 73,475; Apr. 20; Gaz. vol. 141; p. 863.
- Whisky, Blended corn. R. M. Rose Co. No. 72,337; Jan. 19; Gaz. vol. 138; p. 764.
- Whisky, Blended rye. Congress Hotel Company. No. 75,114; Sept. 7; Gaz. vol. 146; p. 251.
- Whisky, Bourbon. Congress Hotel Company. No. 75,113; Sept. 7; Gaz. vol. 146; p. 251.
- Whisky cordial. Dreyfuss, Weil & Co. No. 73,762; May 18; Gaz. vol. 142; p. 851.
- Whisky, rum, gin, brandy, and rock and rye. Cushing Medical Supply Co. No. 75,899; Nov. 23; Gaz. vol. 148; p. 1083.
- Whisky, Straight. Haas, Baruch & Co. No. 72,312; Jan. 19; Gaz. vol. 138; p. 763.
- Whisky, Straight. Wright & Taylor. No. 72,344; Jan. 19; Gaz. vol. 138; p. 764.
- Whisky, Straight. L. Kilsheimer & Co. No. 72,488; Jan. 26; Gaz. vol. 138; p. 961.
- Whisky, Straight. R. S. Strader & Son. No. 72,503; Jan. 26; Gaz. vol. 138; p. 962.
- Whisky, Straight. Sambucetti, Bianchi & Co. No. 73,725; May 11; Gaz. vol. 142; p. 564.
- Whisky, Straight and blended rye. B. J. Semmes & Co. No. 72,175; Jan. 5; Gaz. vol. 138; p. 253.
- Whisky, Straight Bourbon. G. W. Lyon. No. 72,313; Jan. 19; Gaz. vol. 138; p. 763.
- Whisky, Straight Bourbon. L. Allenberg. No. 72,320; Jan. 19; Gaz. vol. 138; p. 763.
- Whisky, Straight Bourbon. Maryland Distilling Co. No. 72,772; Feb. 16; Gaz. vol. 139; p. 727.
- Whisky, Straight Bourbon. Turk & Chanowsky. No. 74,641; July 27; Gaz. vol. 144; p. 1086.



*Alphabetical list of trade-marks—Continued.*

- Whisky, Straight Bourbon. A. A. Anderson. No. 75,032; Aug. 31; Gaz. vol. 145; p. 1245.  
 Whisky, Straight Bourbon. F. P. Dudenhoeffer. No. 75,075; Aug. 31; Gaz. vol. 145; p. 1246.  
 Whisky, Straight Bourbon and straight rye. Breen & Kennedy. No. 75,652; Oct. 26; Gaz. vol. 147; p. 1032.  
 Whisky, Straight Irish. John Jameson & Son. No. 73,865; May 25; Gaz. vol. 142; p. 1110.  
 Whisky, Straight Irish. John Jameson & Son. No. 74,287; June 29; Gaz. vol. 143; p. 1341.  
 Whisky, Straight malt. Ginter Grocery Company. No. 72,652; Feb. 9; Gaz. vol. 139; p. 458.  
 Whisky, Straight rye. Bonnie Bros. No. 72,649; Feb. 9; Gaz. vol. 139; p. 458.  
 Whisky, Straight rye. G. F. Heublein & Bro. No. 73,138; Mar. 16; Gaz. vol. 140; p. 753.  
 Whisky, Straight rye. Hanley-Hoye Co. No. 74,201; June 22; Gaz. vol. 143; p. 1105.  
 Whisky, Straight Scotch. Distillers Company. No. 73,859; May 25; Gaz. vol. 142; p. 1110.  
 Whisky, Straight Scotch malt. Elder-Harrison Company. No. 73,937; June 1; Gaz. vol. 143; p. 254.  
 Wigs for human beings and dolls. W. Ginsberg. No. 72,277; Jan. 12; Gaz. vol. 138; p. 525.  
 Windows from becoming clouded or frosted, Composition for preventing. A. Goldstaub. No. 72,960; Mar. 9; Gaz. vol. 140; p. 501.  
 Wine. L. Legrand. No. 76,124; Dec. 14; Gaz. vol. 149; p. 598.  
 Wine, California port and California sherry. H. Goldschmidt. No. 72,310; Jan. 19; Gaz. vol. 138; p. 763.  
 Wine, Old red Chianti. L. e P. Antinori. No. 76,012; Dec. 7; Gaz. vol. 149; p. 305.  
 Wine, Medicated. Crown Distilleries Co. No. 74,270; June 29; Gaz. vol. 143; p. 1340.  
 Wine, Sherry-. W. R. Magrath & Co. No. 72,489; Jan. 26; Gaz. vol. 138; p. 961.  
 Wine, Sparkling Burgundy type of. William Wolff & Co. No. 72,776; Feb. 16; Gaz. vol. 139; p. 727.  
 Wine, White Chianti. L. e P. Antinori. No. 75,952; Nov. 30; Gaz. vol. 148; p. 1340.  
 Wines. B. Tannenholz. No. 74,190; June 22; Gaz. vol. 143; p. 1105.  
 Wines. Irondequoit Wine Co. No. 74,203; June 22; Gaz. vol. 143; p. 1105.  
 Wines. Henkell & Co. No. 75,473; Oct. 5; Gaz. vol. 147; p. 232.  
 Wines. Cushing Medical Supply Co. No. 75,560; Oct. 19; Gaz. vol. 147; p. 767.  
 Wines, California. Levaggi Company. No. 75,277; Sept. 21; Gaz. vol. 146; p. 715.  
 Wines, Certain. Napa Valley Wine Co. No. 72,158; Jan. 5; Gaz. vol. 138; p. 253.  
 Wines, Certain named. Park & Tilford. No. 74,990; Aug. 24; Gaz. vol. 145; p. 1018.  
 Wines, Sparkling Burgundy. L. Legrand. No. 75,578; Oct. 19; Gaz. vol. 147; p. 768.  
 Wines, Still. Carmel Wine Company. No. 75,797; Nov. 16; Gaz. vol. 148; p. 828.  
 Winkers, breeching and breast-collar tugs, and slide-loops. Williamsport Staple Company. No. 75,548; Oct. 12; Gaz. vol. 147; p. 514.  
 Wooden butter-dishes. Virginia Manufacturing Co. No. 75,462; Oct. 5; Gaz. vol. 147; p. 232.  
 Wool interlining, Lamb's-. Excelsior Quilting Co. No. 73,161; Mar. 23; Gaz. vol. 140; p. 997.  
 Wool, Raw. Busk & Daniels. No. 74,850; Aug. 17; Gaz. vol. 145; p. 759.  
 Wool-wax, toilet cream, ointments, and emulsions. Hegeler & Brünings, Fett-und Seifenwerke A.-G. No. 74,552; July 20; Gaz. vol. 144; p. 814.  
 Woolen and worsted piece goods. Botany Worsted Mills. No. 75,638; Oct. 26; Gaz. vol. 147; p. 1032.  
 Woolen cloth. American Woolen Company. No. 72,760; Feb. 16; Gaz. vol. 139; p. 726.  
 Woolen cloth. American Woolen Company. No. 76,099; Dec. 14; Gaz. vol. 149; p. 598.  
 Worm-eradicator. W. Tucker. No. 76,263; Dec. 28; Gaz. vol. 149; p. 1117.  
 Worsted piece dress goods. Jamestown Worsted Mills. No. 73,427; Apr. 20; Gaz. vol. 141; p. 861.  
 Worsted, woolen, and cotton mixed piece goods. Griffon Company. No. 73,424; Apr. 20; Gaz. vol. 141; p. 861.  
 Wrapping-machines. Fellows & Hopkins. No. 76,145; Dec. 21; Gaz. vol. 149; p. 829.  
 Wrenches. Bemis & Call Hardware & Tool Company. No. 73,931; June 1; Gaz. vol. 143; p. 254.  
 Wringer-rolls. American Wringer Company. No. 76,134; Dec. 21; Gaz. vol. 149; p. 829.  
 Wringers, Clothes-. American Wringer Company. No. 76,011; Dec. 7; Gaz. vol. 149; p. 305.  
 Yarn. Hibben, Hollweg & Company. No. 72,768; Feb. 16; Gaz. vol. 139; p. 727.  
 Yarn or thread, Artificial-silk. P. London. No. 74,969; Aug. 24; Gaz. vol. 145; p. 1018.  
 Yarns and noils, Spun-silk. Kanegafuchi Spinning Company. No. 75,857; Nov. 23; Gaz. vol. 148; p. 1081.  
 Yarns and threads. J. Lonke. No. 74,738; Aug. 3; Gaz. vol. 145; p. 252.  
 Yarns and threads. J. Lonke. No. 75,542; Oct. 12; Gaz. vol. 147; p. 514.  
 Yarns and threads made of cotton, silk, linen, &c. Dollfus-Mieg & Cie. Société Anonyme. Nos. 75,360-1; Sept. 28; Gaz. vol. 146; p. 953.  
 Yeast. Pasteur Vaccine Company. No. 75,816; Nov. 16; Gaz. vol. 148; p. 828.

## ALPHABETICAL LIST OF LABELS.

- "A Fussy Package." (For Chocolates.) S. F. Whitman & Son. No. 14,607; Feb. 2; Gaz. vol. 139; p. 196.  
 "A. P. C." (For Plasters.) Aseptic Products Company. No. 14,984; June 29; Gaz. vol. 143; p. 1343.  
 "Abnoba." (For Cigars.) G. Dottling. No. 15,025; June 29; Gaz. vol. 143; p. 1344.  
 "Acme Tape Package." (For Tapes.) J. A. Adamson. No. 14,950; June 29; Gaz. vol. 143; p. 1342.  
 "Adam." (For Cigars.) G. Dottling. No. 15,032; June 29; Gaz. vol. 143; p. 1344.  
 "Adams' Spearmint Chewing Gum." (For Chewing-Gum.) American Chiclo Co. Nos. 14,743-4; Apr. 6; Gaz. vol. 141; p. 284.  
 "Adolar." (For Cigars.) G. Dottling. No. 15,034; June 29; Gaz. vol. 143; p. 1344.  
 "Advertiser." (For Cigars.) Schmidt & Co. No. 14,901; June 15; Gaz. vol. 143; p. 862.  
 "After the Bath." (For Toilet Powder.) Henry B. Gilpin Co. No. 14,894; June 8; Gaz. vol. 143; p. 560.  
 "Agathon." (For Cigars.) G. Dottling. No. 15,035; June 29; Gaz. vol. 143; p. 1344.  
 "Airship Brand Aeroplane Motor Oil." (For Lubricating-Oil.) P. La Tourette. No. 14,722; Mar. 23; Gaz. vol. 140; p. 999.  
 "Albion Old Orchard." (For Apple-Vinegar.) O. L. Gregory Vinegar Co. No. 14,867; June 1; Gaz. vol. 143; p. 256.  
 "Albita." (For Cigars.) G. Dottling. No. 15,026; June 29; Gaz. vol. 143; p. 1344.  
 "Alcoholado Indiano." (For Liniments.) J. S. Bruno. No. 14,915; June 22; Gaz. vol. 143; p. 1107.  
 "Aleppo Cold Cream." (For Cold-Cream.) New England Laboratory Company. No. 14,613; Feb. 2; Gaz. vol. 139; p. 196.  
 "Aline." (For Cigars.) G. Dottling. No. 15,039; June 29; Gaz. vol. 143; p. 1344.  
 "Alltieder Sikker." (For Medicine.) M. R. Tipton. No. 14,914; June 22; Gaz. vol. 143; p. 1107.  
 "Allgäuer Limburger Style E." (For Limburger Cheese.) G. Ehrat. No. 14,682; Mar. 2; Gaz. vol. 140; p. 253.  
 "American Banner Soap." (For Soap.) Fitzpatrick Bros. No. 14,588; Jan. 5; Gaz. vol. 138; p. 255.  
 "Amor y Zelo." (For Cigars.) Perfecto Garcia & Bros. No. 14,777; Apr. 27; Gaz. vol. 141; p. 1160.  
 "Amora." (For Cigars.) C. B. Henschel Mfg. Co. No. 14,590; Jan. 12; Gaz. vol. 138; p. 526.  
 "Amora." (For Cigars.) G. Dottling. No. 15,030; June 29; Gaz. vol. 143; p. 1344.  
 "Amorela." (For Cigars.) G. Dottling. No. 15,038; June 29; Gaz. vol. 143; p. 1344.  
 "Amorphous Roach Paste." (For an Insect and Rodent Destroyer.) F. N. Thimble. No. 14,620; Feb. 2; Gaz. vol. 139; p. 196.  
 "Amrita." (For Cigars.) G. Dottling. No. 15,007; June 29; Gaz. vol. 143; p. 1343.  
 "Amyla." (For Cigars.) G. Dottling. No. 15,019; June 29; Gaz. vol. 143; p. 1344.  
 "Angela." (For Cigars.) G. Dottling. No. 15,006; June 29; Gaz. vol. 143; p. 1343.  
 "Anthos." (For Cigars.) G. Dottling. No. 15,037; June 29; Gaz. vol. 143; p. 1344.  
 "Antiseptic Toilet Soap." (For Toilet Soap.) E. A. Reinkendorff. No. 14,990; June 29; Gaz. vol. 143; p. 1343.  
 "A pollo Studios', Metalography Homeworke's Set." (For Home-Workers' Set for Art Metal-Work.) Apollo Studios'. No. 14,874; June 1; Gaz. vol. 143; p. 256.  
 "Arcadio." (For Cigars.) G. Dottling. No. 15,033; June 29; Gaz. vol. 143; p. 1344.  
 "Arch City Brew." (For Bottled Beer.) Franklin Brewing Company. No. 14,952; June 29; Gaz. vol. 143; p. 1342.  
 "Aries." (For Cigars.) G. Dottling. No. 15,047; June 29; Gaz. vol. 143; p. 1344.  
 "Arrow Brand Handkerchiefs." (For Handkerchiefs.) H. D. Phillips. No. 14,850; May 25; Gaz. vol. 142; p. 1112.  
 "Arrow Damask." (For Damasks.) F. Tausend. No. 14,941; June 29; Gaz. vol. 143; p. 1342.  
 "Artframe Stationery." (For Stationery.) American Papeterie Company. No. 15,060; Sept. 7; Gaz. vol. 146; p. 254.  
 "As You Like It." (For Grape-Jelly.) J. McMahon and S. W. Humphries. No. 14,731; Mar. 30; Gaz. vol. 140; p. 1205.  
 "Astor Sliced Beef." (For Jar-Beef.) Newark Packing Co. No. 14,720; Mar. 23; Gaz. vol. 140; p. 999.  
 "Atlantic Coast House Paint." (For House-Paints.) Means & Thacher. No. 14,832; May 18; Gaz. vol. 142; p. 854.  
 "Atlasbrew." (For Soda-Water.) H. C. Schranck Company. No. 14,912; June 22; Gaz. vol. 143; p. 1107.  
 "Atorpa." (For Cigars.) G. Dottling. No. 15,018; June 29; Gaz. vol. 143; p. 1343.  
 "Auto Special Dry Battery." (For Batteries.) Kormeyer Co. No. 14,818; May 11; Gaz. vol. 142; p. 566.  
 "Automatic French Polish." (For a Polish.) C. P. Bennett. No. 14,586; Jan. 5; Gaz. vol. 138; p. 255.  
 "Avalos." (For Cigars.) G. Dottling. No. 15,031; June 29; Gaz. vol. 143; p. 1344.  
 "Avigia." (For Cigars.) G. Dottling. No. 15,046; June 29; Gaz. vol. 143; p. 1344.  
 "Aviso." (For Cigars.) G. Dottling. No. 15,002; June 29; Gaz. vol. 143; p. 1343.  
 "Bad Boy." (For Hosiery.) Richmond Hosiery Mills. No. 14,863; May 25; Gaz. vol. 142; p. 1112.  
 "Badger Roasted Coffee." (For Coffee.) Tindall, Kolbe & McDowell Co. No. 15,061; Sept. 14; Gaz. vol. 146; p. 504.  
 "Ballade." (For Cigars.) G. Dottling. No. 15,020; June 29; Gaz. vol. 143; p. 1344.  
 "Banner Varnishes." (For Varnishes.) Banner Varnish Company. No. 14,674; Feb. 23; Gaz. vol. 139; p. 987.  
 "Bardo." (For Cigars.) G. Dottling. No. 15,023; June 29; Gaz. vol. 143; p. 1344.  
 "Bargelo." (For Cigars.) G. Dottling. No. 15,022; June 29; Gaz. vol. 143; p. 1344.  
 "Bartas." (For Cigars.) G. Dottling. No. 15,010; June 29; Gaz. vol. 143; p. 1343.  
 "Batruda." (For Cigars.) G. Dottling. No. 15,001; June 29; Gaz. vol. 143; p. 1343.  
 "Bawak." (For Cigars.) G. Dottling. No. 15,004; June 29; Gaz. vol. 143; p. 1343.  
 "Bedella." (For Cigars.) G. Dottling. No. 15,012; June 29; Gaz. vol. 143; p. 1343.  
 "Belona." (For Cigars.) G. Dottling. No. 15,024; June 29; Gaz. vol. 143; p. 1344.  
 "Beltran." (For Cigars.) G. Dottling. No. 15,042; June 29; Gaz. vol. 143; p. 1344.  
 "Bertalda." (For Cigars.) G. Dottling. No. 15,028; June 29; Gaz. vol. 143; p. 1344.  
 "Big Lou." (For Blended Whisky.) H. L. Griesedieck Distilling Company. No. 14,645; Feb. 14; Gaz. vol. 139; p. 728.  
 "Billy Possum." (For Soap.) The Harper Supply Company. No. 14,786; Apr. 27; Gaz. vol. 141; p. 1160.  
 "Billy Possum Puzzle." (For a Puzzle.) J. N. Reynolds. No. 14,775; Apr. 20; Gaz. vol. 141; p. 864.  
 "Birch-Hair-Water." (For Hair-Water.) Geo. Borgfeldt & Co. No. 15,058; Aug. 24; Gaz. vol. 145; p. 1020.  
 "Birken-Wasser." (For Hair-Lotion.) Geo. Borgfeldt & Co. No. 15,057; Aug. 24; Gaz. vol. 145; p. 1020.  
 "Blandine." (For Cigars.) G. Dottling. No. 15,040; June 29; Gaz. vol. 143; p. 1344.  
 "Blue and Gold." (For Lager-Beer.) Oakland Brewing & Malting Co. No. 14,794; May 4; Gaz. vol. 142; p. 286.  
 "Blue Fox." (For Cigars.) K. H. Jacobs. No. 14,879; June 8; Gaz. vol. 143; p. 560.  
 "Blue Jay." (For Cigars.) Schmidt & Co. No. 14,762; Apr. 20; Gaz. vol. 141; p. 864.  
 "Bohemian Club Brand California Ripe Olives." (For Ripe Olives.) J. C. Kubias. No. 14,811; May 11; Gaz. vol. 142; p. 566.  
 "Bokert Water." (For Natural Mineral Spring Water.) Bokert Springs Mineral Water Co. No. 14,628; Feb. 9; Gaz. vol. 139; p. 460.  
 "Bonita Upper Leather." (For Upper-Leather.) Wm. F. Mosser Co. No. 14,641; Feb. 9; Gaz. vol. 139; p. 460.  
 "Boralum Ointment." (For an Astringent Antiseptic Ointment.) Towns & James. No. 14,736; Mar. 30; Gaz. vol. 140; p. 1205.  
 "Boro-Mint." (For an Antiseptic Solution.) E. G. Bossom. No. 14,713; Mar. 16; Gaz. vol. 140; p. 754.  
 "Boscobel Brand Hosiery." (For Hosiery.) James A. Houston Company. No. 14,854; May 25; Gaz. vol. 142; p. 1112.  
 "Boston Garter." (For Hose-Supporters.) George Frost Company. No. 14,724; Mar. 23; Gaz. vol. 140; p. 999.  
 "Brewette." (For a Non-Intoxicating Beverage.) Tennessee Brewing Company. No. 14,742; Apr. 6; Gaz. vol. 141; p. 284.  
 "Bridge-ets." (For Stuffed Dates.) Drazah Shamrock Co. No. 14,799; May 4; Gaz. vol. 142; p. 286.  
 "Bright's Quick Acting Metal Polish." (For Metal-Polish.) T. B. Jenkins. No. 14,898; June 8; Gaz. vol. 143; p. 560.  
 "Brooke's Finest Lemos Sweetened Lemon Juice." (For Sweetened Lemon-Juice.) C. M. Brooke. No. 14,945; June 29; Gaz. vol. 143; p. 1342.  
 "Bruguier's Antiseptic Tooth Powder." (For Tooth-Powder.) O. R. Bruguier. No. 14,635; Feb. 9; Gaz. vol. 139; p. 460.  
 "Bryant's Marjoram Cream." (For a Medicinal Preparation.) M. K. Bryant. No. 14,698; Mar. 9; Gaz. vol. 140; p. 505.  
 "Busita." (For Cigars.) G. Dottling. No. 15,005; June 29; Gaz. vol. 143; p. 1343.  
 "Calluna." (For Cigars.) G. Dottling. No. 15,045; June 29; Gaz. vol. 143; p. 1344.  
 "Cam." (For Cigars.) G. Dottling. No. 15,036; June 29; Gaz. vol. 143; p. 1344.  
 "Camp Perry." (For Cigars.) G. A. Fisher. No. 14,926; June 29; Gaz. vol. 143; p. 1342.  
 "Campus Cigarettes." (For Cigarettes.) C. Campus. No. 14,927; June 29; Gaz. vol. 143; p. 1342.  
 "Candi-Lax." (For Laxative Tablets.) E. A. Hiss. No. 14,827; May 18; Gaz. vol. 142; p. 854.  
 "Candida." (For Cigars.) G. Dottling. No. 15,003; June 29; Gaz. vol. 143; p. 1343.  
 "Candys' Mint Lax." (For Laxative Tablets.) Candy Bros. Mfg. Co. No. 14,871; June 1; Gaz. vol. 143; p. 256.  
 "Canna." (For Cigars.) G. Dottling. No. 15,013; June 29; Gaz. vol. 143; p. 1343.



*Alphabetical list of labels—Continued.*

- "Caperon." (For a Shampoo, Toilet Article, and Scalp Remedy.) A. Nelson. No. 14,784; Apr. 27; Gaz. vol. 141; p. 1160.
- "Car-Bo-Thymol." (For a Liquid Antiseptic Compound.) Car-Bo-Thymol Company. No. 14,699; Mar. 9; Gaz. vol. 140; p. 505.
- "Cariba." (For Cigars.) G. Dotting. No. 15,027; June 29; Gaz. vol. 143; p. 1344.
- "Caricatures De Bois Designed By 'Bourdon.'" (For Caricature Figures.) M. H. Richardson. No. 14,703; Mar. 9; Gaz. vol. 140; p. 505.
- "Carissa." (For Cigars.) G. Dotting. No. 15,015; June 29; Gaz. vol. 143; p. 1343.
- "Carolina." (For a Compound of Coffee and Chicory.) Hall & Bass. No. 14,648; Feb. 16; Gaz. vol. 139; p. 728.
- "Carter's Dental Outfit." (For Toothache-Drops.) E. W. Carter. No. 14,700; Mar. 9; Gaz. vol. 140; p. 505.
- "Castona." (For Cigars.) G. Dotting. No. 15,014; June 29; Gaz. vol. 143; p. 1343.
- "Ceres Flour." (For Flour.) Boonville Milling Company. No. 14,754; Apr. 13; Gaz. vol. 141; p. 564.
- "Champion." (For Citrus Fruits.) A. C. Denman & Son. No. 14,884; June 8; Gaz. vol. 143; p. 560.
- "Chanteceler." (For Tonics.) E. Courtade. No. 14,891; June 8; Gaz. vol. 143; p. 560.
- "Charcoallets." (For a Throat-Ease.) Messer Gum Co. No. 14,670; Feb. 23; Gaz. vol. 139; p. 987.
- "Cherokee." (For Hosiery.) Richmond Hosiery Mills. No. 14,855; May 25; Gaz. vol. 142; p. 1112.
- "Chicago Medical Society Milk Commission." (For Certified Milk.) Chicago Medical Society Milk Commission. No. 14,932; June 29; Gaz. vol. 143; p. 1342.
- "Chocolate Wheat Kernels." (For a Cereal Food Product.) Natural Food Company. No. 14,812; May 11; Gaz. vol. 142; p. 566.
- "Christian Brecht's Pure Beer." (For Beer.) C. Brecht. No. 14,606; Feb. 2; Gaz. vol. 139; p. 196.
- "Cicero." (For Cigars.) G. Dotting. No. 15,029; June 29; Gaz. vol. 143; p. 1344.
- "Cigarros Superiores." (For Cigars.) American Lithographic Company. No. 14,791; May 4; Gaz. vol. 142; p. 286.
- "Clo-Clo." (For Cigars.) G. Dotting. No. 15,011; June 29; Gaz. vol. 143; p. 1343.
- "Cloister Chocolates." (For Chocolates.) B. C. Taylor. No. 14,810; May 11; Gaz. vol. 142; p. 566.
- "Club House." (For Cigars, Cheroots, Cigarettes, Stogies, Smoking and Chewing Tobacco.) Boener Bros. No. 14,929; June 29; Gaz. vol. 143; p. 1342.
- "Clysmas." (For Cigars.) G. Dotting. No. 15,021; June 29; Gaz. vol. 143; p. 1344.
- "CO-ED." (For Nougat.) Huyler's. No. 14,766; Apr. 20; Gaz. vol. 141; p. 864.
- "Colgate's Rapid Shave Powder." (For Soap Powder.) Colgate & Company. No. 14,787; Apr. 27; Gaz. vol. 141; p. 1160.
- "Colossus Socks." (For Socks.) Taylor and Merikle. No. 14,774; Apr. 20; Gaz. vol. 141; p. 864.
- "Columbia." (For Beer.) Kurth Company. No. 14,965; June 29; Gaz. vol. 143; p. 1343.
- "Columbia Brand Men's Handkerchiefs." (For Men's Handkerchiefs.) Heller & Long. No. 14,726; Mar. 23; Gaz. vol. 140; p. 999.
- "Conroy's Spices." (For Spices.) Conroy Spice Company. No. 14,947; June 29; Gaz. vol. 143; p. 1342.
- "Corset Français de Bon Ton." (For Corsets.) Royal Worcester Corset Co. No. 14,640; Feb. 9; Gaz. vol. 139; p. 460.
- "Cranberry & Fruit Relish." (For Meats, Game, and Poultry.) E. A. M. Co. No. 14,935; June 29; Gaz. vol. 143; p. 1342.
- "Crawford." (For Peaches.) J. H. Teats' Sons. No. 14,751; Apr. 13; Gaz. vol. 141; p. 564.
- "Crème Métamorphose." (For a French Cosmetic.) Germania Chemical Co. No. 14,654; Feb. 16; Gaz. vol. 139; p. 728.
- "Creola." (For Cigars.) G. Dotting. No. 15,017; June 29; Gaz. vol. 143; p. 1343.
- "Crest." (For Flour.) W. M. Farless. No. 14,666; Feb. 23; Gaz. vol. 139; p. 987.
- "Crowley's Arbolineum." (For Tree-Spray Insecticide and Cattle-Wash.) H. R. Crowley. No. 14,949; June 29; Gaz. vol. 143; p. 1342.
- "Curator." (For Cigars.) G. Dotting. No. 15,016; June 29; Gaz. vol. 143; p. 1343.
- "Cypres." (For Cigars.) G. Dotting. No. 15,009; June 29; Gaz. vol. 143; p. 1343.
- "Dakota Brand Pumpkin." (For Canned Pumpkin.) Big Stone Canning Co. No. 14,826; May 18; Gaz. vol. 142; p. 854.
- "Dan Patch." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,000; June 29; Gaz. vol. 143; p. 1343.
- "Daniel Boone Flour." (For Flour.) Boonville Milling Company. No. 14,730; Mar. 30; Gaz. vol. 140; p. 1205.
- "Daniel's Regular P. P. P. Ring Packing." (For Rod-Packing.) Quaker City Rubber Co. No. 14,806; May 4; Gaz. vol. 142; p. 286.
- "Daniel's Special P. P. P. Ring Packing." (For Rod-Packing.) Quaker City Rubber Co. No. 14,805; May 4; Gaz. vol. 142; p. 286.
- "Danito." (For Cigars.) G. Dotting. No. 15,044; June 29; Gaz. vol. 143; p. 1344.
- "De Luxe." (For Violin-Rosin.) Musicians' Supply Company. No. 14,997; June 29; Gaz. vol. 143; p. 1343.
- "Dentifrice." (For a Dentifrice.) Joseph St. Pierre & Co. No. 14,685; Mar. 2; Gaz. vol. 140; p. 253.
- "Dentyne." (For Tooth-Powder.) Dentyne Manufacturing Company. No. 14,938; June 29; Gaz. vol. 143; p. 1342.
- "Dentsylk." (For Dental Floss Silk.) Belding Brothers & Company. No. 14,973; June 29; Gaz. vol. 143; p. 1343.
- "Detroit." (For Type-Writer Carbon-Paper.) Three B B B Company. No. 14,690; Mar. 2; Gaz. vol. 140; p. 253.
- "Dick's Blue Diamond Kalsomine." (For Calceimine.) J. F. O'Brien. No. 14,636; Feb. 9; Gaz. vol. 139; p. 460.
- "Digestal." (For a Medical Compound.) W. W. McClenaghan. No. 14,828; May 18; Gaz. vol. 142; p. 854.
- "Diletto." (For Cigars.) G. Dotting. No. 15,008; June 29; Gaz. vol. 143; p. 1343.
- "Dillard's Elixir Pap-A-Couch-Ee." (For a Medicinal Elixir.) S. H. Dillard. No. 14,844; May 25; Gaz. vol. 142; p. 1112.
- "Dinebra." (For Cigars.) G. Dotting. No. 15,048; June 29; Gaz. vol. 143; p. 1344.
- "Diploma." (For Chow-Chow.) S. M. Abrams. No. 14,798; May 4; Gaz. vol. 142; p. 286.
- "Dixie." (For Cigars.) G. Dotting. No. 15,041; June 29; Gaz. vol. 143; p. 1344.
- "Don Principio." (For Cigars.) Schmidt & Co. No. 14,837; May 25; Gaz. vol. 142; p. 1112.
- "Donna Dulce." (For Cigars.) Schmidt & Co. No. 14,836; May 25; Gaz. vol. 142; p. 1112.
- "Doric Hook & Eye." (For Hooks and Eyes.) Sterling Pin Co. No. 14,601; Jan. 26; Gaz. vol. 138; p. 963.
- "Dr. Blair's Cream of Cucumber." (For a Preparation for the Skin.) E. D. Sawkins. No. 14,815; May 11; Gaz. vol. 142; p. 566.
- "Dr. Jarvis' Bilious & Bowel Bullets." (For a Remedy for Biliousness and Bowel Complaints.) H. C. Jarvis. No. 14,988; June 29; Gaz. vol. 143; p. 1343.
- "Drapery Serpentine Crêpe." (For Crape Cloth Intended for Drapery and Upholstery Uses.) Pacific Mills. No. 14,595; Jan. 12; Gaz. vol. 138; p. 526.
- "Dry Bog." (For Oranges.) F. W. Young. No. 14,630; Feb. 9; Gaz. vol. 139; p. 460.
- "Du Pont Black Sporting Powder." (For Loaded Shells.) E. I. du Pont de Nemours Powder Company. No. 14,658; Feb. 16; Gaz. vol. 139; p. 728.
- "Dudley Mint Chewing Gum." (For Mint Chewing Gum.) Cincinnati Commercial Company. No. 14,593; Jan. 12; Gaz. vol. 138; p. 526.
- "Dumont." (For Cigars.) B. F. Huff & Sons. No. 14,821; May 18; Gaz. vol. 142; p. 854.
- "Duncan." (For Cigars.) G. Dotting. No. 15,043; June 29; Gaz. vol. 143; p. 1344.
- "E. Ermold's 'Special' Labeling Gum." (For Gum for Labeling Bottles.) E. Ermold. No. 14,896; June 8; Gaz. vol. 143; p. 560.
- "Eagon's Veterinary Colic Remedy." (For Veterinary Colic Remedy.) J. A. Eagon. No. 14,830; May 18; Gaz. vol. 142; p. 854.
- "Earl New Cleanser." (For a Cleaning Compound.) Earl Soap Works. No. 14,716; Mar. 16; Gaz. vol. 140; p. 754.
- "Earl's Antöl." (For a Remedy for Alcoholism.) J. E. Earl. No. 14,667; Feb. 23; Gaz. vol. 139; p. 987.
- "Easter Confections." (For Confections.) W. R. Montague. No. 14,780; Apr. 27; Gaz. vol. 141; p. 1160.
- "Edelweiss Frühstück Käsechen." (For Cheese.) S. Van Koringut. No. 14,697; Mar. 9; Gaz. vol. 140; p. 505.
- "El Converso." (For Cigars.) Moehle Lithographic Company. No. 14,692; Mar. 9; Gaz. vol. 140; p. 505.
- "El Scento." (For Cigars.) Schmidt & Co. No. 14,972; June 29; Gaz. vol. 143; p. 1343.
- "Electric Face and Healing Cream." (For Face and Healing Cream.) C. C. Ganz & Co. No. 14,813; May 11; Gaz. vol. 142; p. 566.
- "Electric Pile Remedy." (For Pile Remedy.) C. C. Ganz & Co. No. 14,829; May 18; Gaz. vol. 142; p. 854.
- "Electrolis." (For Whips.) L. H. Beals & Son Co. No. 14,963; June 29; Gaz. vol. 143; p. 1342.
- "Elephant Brand." (For Macaroni.) Basile & Calandra. No. 14,608; Feb. 2; Gaz. vol. 139; p. 196.
- "Ellerbe's Dandruffage." (For Hair-Tonic.) A. C. Ellerbe. No. 14,756; Apr. 13; Gaz. vol. 141; p. 564.
- "Export Beer." (For Beer.) W. Albrecht. No. 14,993; June 29; Gaz. vol. 143; p. 1343.
- "Extra Quality Genuine Pittsburg Hand Made Spanish Seed Long Filler Stogies." (For Stogies.) Crescent Cigar Co. No. 14,840; May 25; Gaz. vol. 142; p. 1112.
- "Eyvin Colorito." (For Soap for Washing and Dyeing.) S. Andersen. No. 14,788; Apr. 27; Gaz. vol. 141; p. 1160.
- "Fairy." (For a Polish.) Asher and Weir. No. 14,770; Apr. 20; Gaz. vol. 141; p. 864.
- "Famous Roach, Ant and Water Bug Exterminator." (For a Bug-Exterminator.) J. Holwadel. No. 14,688; Mar. 2; Gaz. vol. 140; p. 253.
- "Father Gordon." (For Compound Gin.) Gordon Bitters Co. No. 14,866; June 1; Gaz. vol. 143; p. 566.
- "Feist Gas Mantle." (For Incandescent Gas-Mantles.) Feist Gas Mantle Manufacturing Co. No. 14,657; Feb. 16; Gaz. vol. 139; p. 728.
- "Fenole." (For Insect-Destroyer and Disinfectant.) W. R. Powell. No. 14,619; Feb. 2; Gaz. vol. 139; p. 196.
- "Finca San Just." (For Fruit.) T. P. Lippitt. No. 14,953; June 29; Gaz. vol. 143; p. 1342.
- "First Treasurer." (For Cigars.) El Orifinal Cigar Co. No. 14,624; Feb. 9; Gaz. vol. 139; p. 460.
- "Flag Rock." (For Ginger-Ale.) Clifton Forge Ice & Bottling Works. No. 14,707; Mar. 16; Gaz. vol. 140; p. 754.
- "Flake White Soap." (For Laundry Soap.) J. S. Kirk & Company. No. 14,600; Jan. 26; Gaz. vol. 138; p. 963.
- "Flaxine Linen." (For Writing-Paper.) A. H. Sampson. No. 14,996; June 29; Gaz. vol. 143; p. 1343.
- "Flor De Juncos." (For Cigars.) Schmidt & Co. No. 14,877; June 8; Gaz. vol. 143; p. 560.
- "Four Nobles." (For Cigars.) Siers, Shirk, Snader & Co. No. 14,748; Apr. 13; Gaz. vol. 141; p. 564.



*Alphabetical list of labels—Continued.*

- "French Gloss." (For a Preparation Used for Laundry Purposes.) French Gloss Manufacturing Co. No. 15,062; Sept. 14; Gaz. vol. 146; p. 504.
- "German-American Herb Compound." (For a Proprietary Medicine.) C. F. Myers. No. 14,634; Feb. 9; Gaz. vol. 139; p. 460.
- "Giant Hose." (For Hosiery.) Sacks & Levy. No. 14,943; June 29; Gaz. vol. 143; p. 1342.
- "Giggles." (For Popcorn.) National Candy Company. No. 14,650; Feb. 16; Gaz. vol. 139; p. 728.
- "Glendair." (For Teas.) E. C. Mathewson. No. 14,664; Feb. 23; Gaz. vol. 139; p. 987.
- "Glycoline Tooth Paste." (For a Tooth-Paste.) Portland Dental Mfg. Co. No. 14,615; Feb. 2; Gaz. vol. 139; p. 196.
- "Goetze's Yerba-Santa." (For Pepsin Chewing-Gum.) Baltimore Chewing Gum Co. No. 14,721; Mar. 23; Gaz. vol. 140; p. 999.
- "Gold Medal Hose." (For Hosiery.) H. Wolf & Sons. No. 14,922; June 22; Gaz. vol. 143; p. 1107.
- "Gold Mine." (For Blended Coffee.) Dean-Lilly Coffee & Spice Co. No. 14,994; June 29; Gaz. vol. 143; p. 1343.
- "Golden Bath Salve." (For a Salve.) I. Jarczewski. No. 14,671; Feb. 23; Gaz. vol. 139; p. 987.
- "Golden Hour." (For Stogies.) Florida Havana Cigar Co. No. 14,693; Mar. 9; Gaz. vol. 140; p. 505.
- "Golf." (For Ginger-Ale.) H. C. Schranck Co. No. 14,824; May 18; Gaz. vol. 142; p. 854.
- "Good Judgment." (For Wine-Vinegar.) R. G. Whitlock. No. 14,931; June 29; Gaz. vol. 143; p. 1342.
- "Graham's Star Corn Salve." (For Corn-Salve.) C. W. Graham. No. 14,985; June 29; Gaz. vol. 143; p. 1343.
- "Granite Spring Water." (For Spring-Water.) Granite Spring Water Co. No. 14,796; May 4; Gaz. vol. 142; p. 286.
- "Grass Bleach Irish Linen Hdks." (For Handkerchiefs.) Robert Gair Company. No. 14,717; Mar. 16; Gaz. vol. 140; p. 754.
- "Haelan." (For Liniment.) Crawford and Forman. No. 14,652; Feb. 16; Gaz. vol. 139; p. 728.
- "Hardwear." (For Hosiery.) Richmond Hosiery Mills. No. 14,856; May 25; Gaz. vol. 142; p. 1112.
- "Heart." (For Chocolates.) Huyler's. No. 14,765; Apr. 20; Gaz. vol. 141; p. 864.
- "Hed-Eze." (For a Medicine.) W. J. Scherer. No. 14,768; Apr. 20; Gaz. vol. 141; p. 864.
- "Hemingway's London Purple." (For Drugs and Chemicals.) Hemingway's London Purple Company, Limited. No. 14,733; Mar. 30; Gaz. vol. 140; p. 1205.
- "Hero of Commerce." (For Cigars.) St. Louis Cigar Box Co. No. 14,740; Apr. 6; Gaz. vol. 141; p. 284.
- "Hiawatha." (For Hosiery.) Richmond Hosiery Mills. No. 14,859; May 25; Gaz. vol. 142; p. 1112.
- "Highgrove Brand." (For Oranges.) Sugar Loaf Orange Growers Association. No. 14,629; Feb. 9; Gaz. vol. 139; p. 460.
- "Hires' Household Extract." (For Root-Beer Extract.) Charles E. Hires Company. No. 14,694; Mar. 9; Gaz. vol. 140; p. 505.
- "HO-LON-OL." (For a Medicine for External Application.) J. R. Wilson. No. 14,617; Feb. 2; Gaz. vol. 139; p. 196.
- "Hop-Scotch." (For Hosiery.) Richmond Hosiery Mills. No. 14,860; May 25; Gaz. vol. 142; p. 1112.
- "Houston's One-Process Wash Dresses." (For Wash-Dresses.) James A. Houston Company. No. 14,851; May 25; Gaz. vol. 142; p. 1112.
- "Houston's Paris-American Undermusins." (For Muslin Underwear.) James A. Houston Company. No. 14,853; May 25; Gaz. vol. 142; p. 1112.
- "Hudson-Fulton." (For Cigars.) Schmidt & Co. No. 14,878; June 8; Gaz. vol. 143; p. 560.
- "Hugher Neck." (For Cigars.) Craig Cigar Co. No. 14,747; Apr. 13; Gaz. vol. 141; p. 564.
- "Hyacinth." (For a Complexion and Massage Cream.) Hygienic Laboratory Company. No. 14,686; Mar. 2; Gaz. vol. 140; p. 253.
- "Hydrated Lime Crown Brand." (For Hydrated Lime.) Marblehead Lime Company. No. 14,961; June 29; Gaz. vol. 143; p. 1342.
- "Iron-de-quoit Grape Juice Unfermented." (For Unfermented Grape-Juice.) Irondequoit Fruit Juice Co. No. 14,647; Feb. 16; Gaz. vol. 139; p. 728.
- "Ideal." (For Steel Wool.) American Steel Wool Mfg. Co. No. 14,621; Feb. 2; Gaz. vol. 139; p. 196.
- "Indra-Tea." (For a Blend of Ceylon and India Tea.) Ceylana Tea Company. No. 14,582; Jan. 5; Gaz. vol. 138; p. 255.
- "Interwoven Toe and Heel." (For Hosiery.) Interwoven Stocking Company. Nos. 14,802-3; May 4; Gaz. vol. 142; p. 286.
- "Iodolum." (For an Ointment.) W. C. Tyndale. No. 14,599; Jan. 26; Gaz. vol. 138; p. 963.
- "Iwanta Good Bread." (For Bread.) F. Sanford. No. 14,752; Apr. 13; Gaz. vol. 141; p. 564.
- "J. A. C. Newcomer." (For Cigars.) E. L. Golden. No. 14,793; May 4; Gaz. vol. 142; p. 286.
- "J. B. Actress's Cold Cream." (For Cold-Cream.) J. L. De Zeabault. No. 14,814; May 11; Gaz. vol. 142; p. 566.
- "J. N. A. Liniment." (For Liniment.) J. N. A. Gauthier. No. 14,710; Mar. 16; Gaz. vol. 140; p. 754.
- "Jack Corn Plaster." (For Corn-Plasters.) Jack Introduction Co. No. 14,916; June 22; Gaz. vol. 143; p. 1107.
- "Jacob Ruppert Sparkling Ale." (For Ale.) J. Ruppert. No. 14,764; Apr. 20; Gaz. vol. 141; p. 864.
- "Japan Lacquer." (For a Varnish or Wood-Finisher.) Capitol Paint, Oil & Varnish Company. No. 15,069; Nov. 9; Gaz. vol. 148; p. 567.
- "Japishu." (For Toilet-Paper.) Scott Paper Company. No. 14,908; June 15; Gaz. vol. 143; p. 862.
- "Josh Giddings." (For Cigars.) Moehle Lithographic Co. No. 14,661; Feb. 23; Gaz. vol. 139; p. 987.
- "Kaiser Brand." (For Limburger-Type Cheese.) G. Smith & Son. No. 14,868; June 1; Gaz. vol. 143; p. 256.
- "Kawowka." (For a Cordial Containing Coffee.) W. A. Sanoica. No. 14,627; Feb. 9; Gaz. vol. 139; p. 460.
- "Keepclean Tooth Brush." (For Tooth-Brushes.) Florence Manufacturing Company. No. 14,906; June 15; Gaz. vol. 143; p. 862.
- "Keno Cigar Scrap." (For Smoking and Chewing Tobaccos.) Victor Tobacco Company. No. 14,604; Feb. 2; Gaz. vol. 139; p. 196.
- "Keystone Garter." (For Men's Garters.) C. L. Meyer. No. 14,656; Feb. 16; Gaz. vol. 139; p. 728.
- "King William Waterproof Fibre." (For Paper.) Rhinelander Paper Company. No. 14,907; June 15; Gaz. vol. 143; p. 862.
- "Kitchen Klezzer." (For Scouring-Powder.) Fitzpatrick Bros. No. 14,940; June 29; Gaz. vol. 143; p. 1342.
- "Klean Cloth Hand Kerchiefs." (For Handkerchiefs.) F. J. Crystal. No. 14,704; Mar. 9; Gaz. vol. 140; p. 505.
- "Kornola." (For a Medicinal Preparation.) A. J. Barber. No. 14,734; Mar. 30; Gaz. vol. 140; p. 1205.
- "Kraftwrap." (For Wrapping-Paper.) Union Paper & Twine Co. No. 14,677; Feb. 23; Gaz. vol. 139; p. 987.
- "L & Z Furniture Polish." (For Furniture-Polish.) Levenson & Zenitz. No. 14,738; Mar. 30; Gaz. vol. 140; p. 1205.
- "La Dora." (For Cigars.) C. B. Henschel Mfg. Co. No. 14,745; Apr. 13; Gaz. vol. 141; p. 564.
- "La Moza." (For Coffee.) E. C. A. Bianchi. No. 14,978; June 29; Gaz. vol. 143; p. 1343.
- "La Pelata." (For Cigars.) C. B. Henschel Mfg. Co. No. 14,589; Jan. 12; Gaz. vol. 138; p. 526.
- "La Seguridad." (For Cigars.) H. J. Watt and J. J. Grathwol. No. 14,902; June 15; Gaz. vol. 143; p. 862.
- "La Venero." (For Cigars.) C. Feinstein. No. 14,678; Mar. 2; Gaz. vol. 140; p. 253.
- "Lake Keuka Grapes." (For Grapes.) Guile & Windnagle. No. 14,934; June 29; Gaz. vol. 143; p. 1342.
- "Laxura." (For Laxative Tablets.) J. F. Tiedeman. No. 14,735; Mar. 30; Gaz. vol. 140; p. 1205.
- "Levy's Oregon Grape Compound." (For a Medicine.) G. S. Levy. No. 15,073; Dec. 28; Gaz. vol. 149; p. 1118.
- "Liberty." (For Brooms.) J. Liberman. No. 14,659; Feb. 16; Gaz. vol. 139; p. 728.
- "Life of Leather." (For Leather-Dressing.) Dix Manufacturing Company. No. 14,833; May 18; Gaz. vol. 142; p. 854.
- "Lily Brand." (For Baking-Powder.) Dean-Lilly Coffee & Spice Co. No. 14,869; June 1; Gaz. vol. 143; p. 256.
- "Lily of the Valley Illusion." (For Perfumery.) Geo. Borgfeldt & Co. No. 15,054; Aug. 24; Gaz. vol. 145; p. 1020.
- "Lincoln Dry Battery." (For Batteries.) Kormeyer Co. No. 14,819; May 11; Gaz. vol. 142; p. 566.
- "Liotta's Eubelline." (For a Medicinal Preparation for the Hair.) M. A. Liotta. No. 14,712; Mar. 16; Gaz. vol. 140; p. 754.
- "Liturgical Brand." (For Beeswax Altar-Candles.) F. Pustet & Co. No. 14,956; June 29; Gaz. vol. 143; p. 1342.
- "Lord Lawrence." (For Cigars.) Schmidt & Co. No. 14,839; May 25; Gaz. vol. 142; p. 1112.
- "Lotto Scrap." (For Smoking and Chewing Tobaccos.) Victor Tobacco Company. No. 14,605; Feb. 2; Gaz. vol. 139; p. 196.
- "Lung Gas." (For a Medicine.) J. Carlson. No. 14,684; Mar. 2; Gaz. vol. 140; p. 253.
- "Magnolia." (For Sliced Beef.) C. E. Nettle Packing Co. No. 14,633; Feb. 9; Gaz. vol. 139; p. 460.
- "Majestic." (For Type-Writer Carbon-Paper.) Three B B B Company. No. 14,758; Apr. 13; Gaz. vol. 141; p. 564.
- "Malto." (For a Non-Intoxicating Malt Beverage.) G. Altree. No. 14,708; Mar. 16; Gaz. vol. 140; p. 754.
- "Malty." (For a Non-Intoxicating Malt Beverage.) Galveston Brewing Co. No. 14,626; Feb. 9; Gaz. vol. 139; p. 460.
- "Manru Lager." (For Beer.) A. Schreiber Brewing Co. No. 14,979; June 29; Gaz. vol. 143; p. 1343.
- "Mapl-Flour." (For Pancake-Flour.) Hygienic Food Co. No. 15,070; Nov. 30; Gaz. vol. 148; p. 1341.
- "Marathon." (For Drawers.) Young, Smyth, Field Company. No. 14,852; May 25; Gaz. vol. 142; p. 1112.
- "Marathons." (For Candy on Stick.) H. L. Fritz. No. 14,842; May 25; Gaz. vol. 142; p. 1112.
- "Marble Head Lime Crown Brand." (For White Lime.) Marblehead Lime Company. No. 14,977; June 29; Gaz. vol. 143; p. 1343.
- "Marca de Regalia." (For Cigars.) Schmidt & Co. No. 14,900; June 15; Gaz. vol. 143; p. 862.
- "Ma's-Tater Bread." (For Bread.) F. Sanford. No. 14,753; Apr. 13; Gaz. vol. 141; p. 564.
- "Maximus." (For a Dandruff Remedy.) C. F. Wine. No. 14,711; Mar. 16; Gaz. vol. 140; p. 754.
- "Mayflower." (For Sliced Beef.) C. E. Nettle Packing Co. No. 14,631; Feb. 9; Gaz. vol. 139; p. 460.
- "Mayflower Fancy Breakfast Bacon." (For Bacon.) Lang Packing Co. No. 15,053; Aug. 24; Gaz. vol. 145; p. 1020.
- "Mayflower Fresh Pork Sausage." (For Pork Sausages.) Lang Packing Co. No. 14,681; Mar. 2; Gaz. vol. 140; p. 253.
- "Mayflower Ham." (For Ham.) Lang Packing Co. No. 15,052; Aug. 24; Gaz. vol. 145; p. 1020.
- "Messer's Charcoal Gum." (For Chewing-Gum.) J. L. Messer. No. 14,843; May 25; Gaz. vol. 142; p. 1112.
- "Meyer's Non-Blister Specific." (For Liniment.) H. J. Meyer. No. 14,948; June 29; Gaz. vol. 143; p. 1342.
- "Mi Rey." (For Cigars.) R. Rey. No. 14,591; Jan. 12; Gaz. vol. 138; p. 526.
- "Miller's Dropsy Remedy." (For a Proprietary Medicine.) E. L. Miller. No. 14,986; June 29; Gaz. vol. 143; p. 1343.
- "Milne's Lavatone Liquid Soap." (For Antiseptic Liquid Soap.) H. Milne. No. 14,616; Feb. 2; Gaz. vol. 139; p. 196.
- "Modern Excellence." (For Cigars.) Royal Havana Cigar Mfg. Co. No. 14,981; June 29; Gaz. vol. 143; p. 1343.



*Alphabetical list of labels—Continued.*

- "Monogram." (For Cigars, Cheroots, Stogies, Cigarettes, Smoking and Chewing Tobacco.) Boener Bros. No. 14,928; June 29; Gaz. vol. 143; p. 1342.
- "Morris Gruberg's Bread." (For Bread.) M. Gruberg. No. 14,883; June 8; Gaz. vol. 143; p. 560.
- "Mother's Ironing Wax." (For Ironing-Wax Pads.) E. A. Bromund. No. 14,804; May 4; Gaz. vol. 142; p. 286.
- "Mother's Macaroni." (For Macaroni.) Mother's Macaroni Co. No. 14,801; May 4; Gaz. vol. 142; p. 286.
- "Mullen's." (For Malt Extract.) Mullen Brewing Co. No. 14,719; Mar. 23; Gaz. vol. 140; p. 999.
- "My Own Egyptian Cigarettes." (For Cigarettes.) S. Emanuel. No. 14,749; Apr. 13; Gaz. vol. 141; p. 564.
- "Napanee Foot Powder." (For Foot-Powder.) L. N. McCleer. No. 14,701; Mar. 9; Gaz. vol. 140; p. 505.
- "Narcissus Illusion." (For Perfumery.) Geo. Borgfeldt & Co. No. 15,059; Aug. 31; Gaz. vol. 145; p. 1248.
- "National Brand Men's Handkerchiefs." (For Men's Handkerchiefs.) Heller & Long. No. 14,725; Mar. 23; Gaz. vol. 140; p. 999.
- "Neo-Grease." (For a Grease-Paint.) E. Miller. No. 14,897; June 8; Gaz. vol. 143; p. 560.
- "Neptune Brand Roofing." (For Roofing.) S. H. Goldberg. No. 14,776; Apr. 20; Gaz. vol. 141; p. 864.
- "Nertona." (For a Non-Intoxicating Beverage.) L. G. Volkmar. No. 14,663; Feb. 23; Gaz. vol. 139; p. 987.
- "Nerves." (For Nerve and Blood Tablets.) Emerson Home Co. No. 14,584; Jan. 5; Gaz. vol. 138; p. 255.
- "Nevaleek." (For Bottle-Stoppers.) Brooklyn Bottle Stopper Co. No. 14,760; Apr. 13; Gaz. vol. 141; p. 564.
- "Nobleza." (For Cigars.) Schmidt & Co. No. 14,911; June 22; Gaz. vol. 143; p. 1107.
- "Non Plus Ultra." (For Cigars.) American Lithographic Company. No. 14,792; May 4; Gaz. vol. 142; p. 286.
- "Non Plus Ultra." (For Cigars.) American Lithographic Company. No. 14,820; May 18; Gaz. vol. 142; p. 854.
- "Noxall." (For Trays for Traveling-Bags.) Noxall Tray Co. No. 14,723; Mar. 23; Gaz. vol. 140; p. 999.
- "Nycelete." (For Brooms.) M. G. Scoville Sons Co. No. 14,970; June 29; Gaz. vol. 143; p. 1343.
- "Occo-nut Chews." (For Nut-Flavored Candy Chews.) W. B. McCoy Company. No. 14,696; Mar. 9; Gaz. vol. 140; p. 505.
- "Old English Society." (For Tea.) Mazawattee Tea Company. No. 15,064; Sept. 21; Gaz. vol. 146; p. 718.
- "Old Wilmore." (For a Blended Whisky.) L. Sherman & Co. No. 14,646; Feb. 16; Gaz. vol. 139; p. 728.
- "Olivette Brand Olive Oil." (For Pure Olive-Oil.) Munger Brothers Company. No. 14,609; Feb. 2; Gaz. vol. 139; p. 196.
- "Opolax Furniture Polish and Veneering Dressing." (For Furniture-Polish and Veneering-Dressing.) Opolax Chemical Company. No. 14,739; Mar. 30; Gaz. vol. 140; p. 1205.
- "Original Dutch Bitter Sweets." (For Bitter Sweets.) Robert A. Johnston Company. No. 14,954; June 29; Gaz. vol. 143; p. 1342.
- "Our Lake Brand." (For Canned Pumpkin.) Big Stone Canning Co. No. 14,800; May 4; Gaz. vol. 142; p. 286.
- "Oxbrook Towels." (For Towels.) Oxford Linen Mills. No. 14,727; Mar. 23; Gaz. vol. 140; p. 999.
- "Pang's Original Chinese Cigarettes." (For Cigarettes.) K. F. Pang. No. 15,066; Oct. 5; Gaz. vol. 147; p. 234.
- "Parva." (For Refined Coconut-Oil.) S. Jacobson. No. 14,767; Apr. 20; Gaz. vol. 141; p. 864.
- "Pathfinder." (For Toilet-Paper.) W. D. Pelley. No. 14,991; June 29; Gaz. vol. 143; p. 1343.
- "Paul Bros." (For Liver-Pills.) Paul Bros. Medicine Co. No. 14,967; June 29; Gaz. vol. 143; p. 1343.
- "Pepsenoids." (For Medicines in Tablet Form.) J. F. Madden. No. 14,870; June 1; Gaz. vol. 143; p. 256.
- "Perfection Bed Cover." (For Bed Covers or Spreads.) C. L. Christmann. No. 14,676; Feb. 23; Gaz. vol. 139; p. 987.
- "Phillips's Celery Sauce." (For Celery Sauce.) M. A. Phillips. No. 14,781; Apr. 27; Gaz. vol. 141; p. 1160.
- "Phoebe Snow." (For Games.) McLoughlin Brothers. No. 14,920; June 22; Gaz. vol. 143; p. 1107.
- "Pinola Oil." (For a Liniment.) A. J. Barber. No. 14,672; Feb. 23; Gaz. vol. 139; p. 987.
- "Pioneer Cigar Stogies." (For Stogies.) A. Hurwitz. No. 14,662; Feb. 23; Gaz. vol. 139; p. 987.
- "Po-La-Staf." (For a Remedy for Galls, Sore Shoulders, Backs, &c., on Live Stock.) Ahrens Bros. No. 14,847; May 25; Gaz. vol. 142; p. 1112.
- "Pocahontas." (For Hosiery.) Richmond Hosiery Mills. No. 14,859; May 25; Gaz. vol. 142; p. 1112.
- "Porter." (For Porter.) J. Ruppert. No. 14,809; May 11; Gaz. vol. 142; p. 566.
- "Porter Weather-Proof Screens." (For Screens.) Porter Screen Manufacturing Co. No. 14,643; Feb. 9; Gaz. vol. 139; p. 460.
- "Porter's Black Hand Bed Bug Killer." (For Insecticide.) L. Gawurin. No. 14,983; June 29; Gaz. vol. 143; p. 1343.
- "Possum Billie." (For Bread.) S. R. Adams. No. 14,882; June 8; Gaz. vol. 143; p. 560.
- "Praetorian." (For Cigars, Cheroots, Cigarettes, and Smoking-Tobacco.) I. P. Levy. No. 14,728; Mar. 30; Gaz. vol. 140; p. 1205.
- "Prescription No. 25 The Great Cough Medicine." (For a Cough Medicine.) M. Miller. No. 14,992; June 29; Gaz. vol. 143; p. 1343.
- "Prestolax." (For Laxative Preparations.) G. A. Dimoc. No. 14,845; May 25; Gaz. vol. 142; p. 1112.
- "Pride of Maine." (For Sugar-Corn.) Northern Maine Packing Co. No. 14,825; May 18; Gaz. vol. 142; p. 854.
- "Priscilla." (For Hosiery.) Richmond Hosiery Mills. No. 14,862; May 25; Gaz. vol. 142; p. 1112.
- "Pro-phy-lac-tic." (For Tooth-Brushes.) Florence Manufacturing Company. No. 14,816; May 11; Gaz. vol. 142; p. 566.
- "Progress Stogies." (For Stogies.) W. Pollak, Sr. No. 14,625; Feb. 9; Gaz. vol. 139; p. 460.
- "Pure Grape." (For Baking-Powder.) New York Baking Powder Co. No. 14,913; June 22; Gaz. vol. 143; p. 1107.
- "Puro-Clean-O." (For Cleaning Compound.) Mann Carpet Cleaning Co. No. 14,849; May 25; Gaz. vol. 142; p. 1112.
- "Pussy." (For Cigars.) K. H. Jacobs. No. 14,691; Mar. 9; Gaz. vol. 140; p. 505.
- "Qilo." (For Hair-Tonic.) J. B. Davis. No. 14,783; Apr. 27; Gaz. vol. 141; p. 1160.
- "Quality A." (For Candy.) R. C. Boeckel and Co. No. 14,959; June 29; Gaz. vol. 143; p. 1342.
- "Quilt Satin." (For Bedquilts.) F. Tausend. No. 14,957; June 29; Gaz. vol. 143; p. 1342.
- "Quippa." (For a Game.) A. E. Baker. No. 14,999; June 29; Gaz. vol. 143; p. 1343.
- "Real Kisses." (For Candy Kisses.) W. B. McCoy Company. No. 14,649; Feb. 16; Gaz. vol. 139; p. 728.
- "Red Brand." (For Cigars and Stogies.) Buckeye Cigar & Tob. Co. No. 14,823; May 18; Gaz. vol. 142; p. 854.
- "Red Rose." (For Beer.) Independent Breweries Co. No. 14,592; Jan. 12; Gaz. vol. 138; p. 526.
- "Revolution." (For Brandy.) C. A. Van Rensselaer & Co. No. 14,841; May 25; Gaz. vol. 142; p. 1112.
- "Rex Brand Red Salmon." (For Salmon.) Apex Fish Company. No. 15,072; Dec. 28; Gaz. vol. 149; p. 1118.
- "Roche-Croll Cravats." (For Cravats.) Roche, Croll & Co. No. 14,655; Feb. 16; Gaz. vol. 139; p. 728.
- "Rock Proof." (For Hosiery.) Richmond Hosiery Mills. No. 14,864; May 25; Gaz. vol. 142; p. 1112.
- "Rocktown Old Special Rye Whiskey Blend." (For Blended Whisky.) J. Lafferty. No. 14,729; Mar. 30; Gaz. vol. 140; p. 1205.
- "Rockwood Heel and Toe Hose." (For Hosiery.) Rockwood Hosiery Mill. No. 14,790; Apr. 27; Gaz. vol. 141; p. 1160.
- "Rocky Mountains." (For Cigars.) Drebbin Brothers. No. 14,865; June 1; Gaz. vol. 143; p. 256.
- "Root Beer." (For Root-Beer.) American Beverage Co. No. 14,779; Apr. 27; Gaz. vol. 141; p. 1160.
- "Rose Illusion." (For Perfumery.) Geo. Borgfeldt & Co. No. 15,055; Aug. 24; Gaz. vol. 145; p. 1020.
- "Rose Leaf For Complexion." (For a Compressed Powder for the Complexion.) B. B. Meyrick. No. 14,614; Feb. 2; Gaz. vol. 139; p. 196.
- "Rose-Mint Antiseptic Tooth Powder." (For Tooth-Powder.) B. M. Rawlings. No. 14,714; Mar. 16; Gaz. vol. 140; p. 754.
- "Rose-Mint Medicated Talcum Powder." (For Talcum Powder.) B. M. Rawlings. No. 14,715; Mar. 16; Gaz. vol. 140; p. 754.
- "Rose's Improved Antiseptic Catarrh Jelly." (For Catarrh-Jelly.) C. G. Rose. No. 14,893; June 8; Gaz. vol. 143; p. 560.
- "Royal Brand Cleanser." (For Cleansing Preparation.) F. C. Tomson & Co. No. 14,989; June 29; Gaz. vol. 143; p. 1343.
- "Royal Club." (For Schiedam Liqueur.) Blankenheym & Noiët's Distilleerderij. No. 14,596; Jan. 26; Gaz. vol. 138; p. 963.
- "Royal Ideal Pen." (For Fountain-Pens.) J. Saadi. No. 14,919; June 22; Gaz. vol. 143; p. 1107.
- "Royal Ideal Pen." (For Fountain-Pens.) J. Saadi. No. 14,975; June 29; Gaz. vol. 143; p. 1343.
- "Royal Kitchen Brand Page Tomato Sauce." (For Tomato Sauce.) T. Page. No. 14,797; May 4; Gaz. vol. 142; p. 286.
- "Royal Luncheon Sardines." (For Norwegian Smoked Sardines.) J. Stoltenberg. No. 14,583; Jan. 5; Gaz. vol. 138; p. 255.
- "Rubberst Tooth Brush." (For Tooth-Brushes.) Rubber & Celluloid Harness Trimming Co. No. 14,974; June 29; Gaz. vol. 143; p. 1343.
- "Rumatone." (For Medicinal Capsules for the Treatment of Rheumatism and Gout.) H. C. Baer. No. 14,769; Apr. 20; Gaz. vol. 141; p. 864.
- "Runkel's Dairy Milk Chocolate." (For Chocolate.) Runkel Brothers. No. 14,995; June 29; Gaz. vol. 143; p. 1343.
- "Rytelyte." (For Brooms.) M. G. Scoville Sons Co. No. 14,971; June 29; Gaz. vol. 143; p. 1343.
- "Salamanderundi." (For Plaster Casts.) H. Rosenstein. No. 14,789; Apr. 27; Gaz. vol. 141; p. 1160.
- "Sampson Bath Towels." (For Bath-Towels.) H. W. Baker Linen Co. No. 14,689; Mar. 2; Gaz. vol. 140; p. 253.
- "San Eliseo." (For Cigars.) A. C. Henschel & Co. No. 14,705; Mar. 16; Gaz. vol. 140; p. 754.
- "San Vito." (For Cigars.) L. W. Keyer. No. 14,822; May 18; Gaz. vol. 142; p. 854.
- "Sani-Tissue." (For Toilet-Paper.) A. H. Scott. No. 14,875; June 1; Gaz. vol. 143; p. 256.
- "Sans Pareil." (For Savory.) H. Medenbach. No. 14,683; Mar. 2; Gaz. vol. 140; p. 253.
- "Santiseptic." (For a Lotion for the Skin.) Esbencott Chemical Laboratories. No. 14,937; June 29; Gaz. vol. 143; p. 1342.
- "Sank Pony." (For Cigars.) Loeser Bros. No. 14,807; May 11; Gaz. vol. 142; p. 566.
- "Savehair." (For Hair-Tonic.) F. S. Bailey. No. 14,846; May 25; Gaz. vol. 142; p. 1112.
- "Savers." (For Cotton Gloves.) Kendallville Manufacturing Company. No. 14,639; Feb. 9; Gaz. vol. 139; p. 460.
- "Sawyer's Crystal Ammonia and Borax." (For Ammonia and Borax.) Sawyer Crystal Blue Co. No. 14,782; Apr. 27; Gaz. vol. 141; p. 1160.
- "Schreiber Beer." (For Beer.) A. Schreiber Brewing Company. No. 14,930; June 29; Gaz. vol. 143; p. 1342.
- "Schulze's Bromo Bracer." (For Medicine.) H. W. Schulze. No. 14,936; June 29; Gaz. vol. 143; p. 1342.
- "Scintillating Sparklers." (For Fireworks.) Stellar Company. No. 14,944; June 29; Gaz. vol. 143; p. 1342.



*Alphabetical list of labels—Continued.*

- "Seneca Household Renovator." (For Combined Cleaning and Polishing Preparation.) Seneca Paint Co. No. 14,917; June 22; Gaz. vol. 143; p. 1107.
- "Shaughnessy's Special Blended Whiskey." (For Blended Whisky.) M. Shaughnessy Distilling Co. No. 15,067; Nov. 9; Gaz. vol. 148; p. 567.
- "Shav-O." (For Shaving-Soap Powder.) J. C. van Haagen. No. 14,848; May 25; Gaz. vol. 142; p. 1112.
- "Silk Stripe Poplin." (For Poplins.) Burton Bros. & Co. No. 15,051; June 29; Gaz. vol. 143; p. 1344.
- "Slick Shine." (For Polish for Metals.) A. T. Schlichting. No. 14,918; June 22; Gaz. vol. 143; p. 1107.
- "Slide-Easy." (For Neckties.) D. C. Mitchell. No. 14,951; June 29; Gaz. vol. 143; p. 1342.
- "Smoke Cigars." (For Cigars.) American Lithographic Company. No. 14,603; Feb. 2; Gaz. vol. 139; p. 196.
- "Smoke Cigars." (For Cigars.) American Lithographic Company. No. 14,835; May 25; Gaz. vol. 142; p. 1112.
- "Soda Lithia." (For Natural Spring-Water.) J. Koernen, Jr. No. 14,903; June 15; Gaz. vol. 143; p. 862.
- "Sökkeland's Pumpernickel." (For Pumpernickel.) E. Sökkeland & Sohne. No. 14,732; Mar. 30; Gaz. vol. 140; p. 1205.
- "Solid Comfort Hosiery." (For Hosiery.) Producer to Consumer Hosiery Co. No. 15,050; June 29; Gaz. vol. 143; p. 1344.
- "Speedy Root." (For a Liniment.) E. Jensen & Company. No. 14,585; Jan. 5; Gaz. vol. 138; p. 255.
- "St Patrick's Oil." (For Oil.) J. L. De Zeabault. No. 14,653; Feb. 16; Gaz. vol. 139; p. 128.
- "Standard Crochet Quilt." (For Bedquills.) F. Townsend. No. 14,958; June 29; Gaz. vol. 143; p. 1342.
- "Star." (For Cotton-Seed Oil.) Great Providence Oil Comp. No. 14,610; Feb. 2; Gaz. vol. 139; p. 196.
- "Steamed Rye Flakes." (For Cereal Food.) G. A. Preston. No. 14,946; June 29; Gaz. vol. 143; p. 1342.
- "Strong-Nek." (For Fruit-Jars.) O. S. Kulman. No. 14,817; May 11; Gaz. vol. 142; p. 566.
- "Success Remedy Co. Pills Tablets." (For Pills and Tablets.) Success Remedy Co. No. 14,651; Feb. 16; Gaz. vol. 139; p. 728.
- "Sugar Loaf Brand." (For Oranges.) Sugar Loaf Orange Growers Association. No. 14,680; Mar. 2; Gaz. vol. 140; p. 253.
- "Sun-Flower Medicine." (For a Medicine.) G. Larcieri. No. 14,669; Feb. 23; Gaz. vol. 139; p. 987.
- "Sunbeam Damask." (For Damasks.) F. Tausend. No. 14,942; June 29; Gaz. vol. 143; p. 1342.
- "Sunburst." (For Furniture-Polish.) J. B. Seghers. No. 14,771; Apr. 20; Gaz. vol. 141; p. 864.
- "Superior." (For Type-Writer Carbon-Paper.) Three B B Company. No. 14,759; Apr. 13; Gaz. vol. 141; p. 564.
- "Sweeney's Poison Wheat." (For Poisoned Wheat for Killing Rats, Mice, Moles, Gophers, &c.) W. R. Sweeney. No. 14,831; May 18; Gaz. vol. 142; p. 854.
- "Sweet Mountain Cantaloupes." (For Cantaloups.) Sweet Mountain Cantaloupe Co. No. 14,933; June 29; Gaz. vol. 143; p. 1342.
- "Tairmenda." (For Mending-Plaster.) Peters Manufacturing Co. No. 14,772; Apr. 20; Gaz. vol. 141; p. 864.
- "Tampanita." (For Cigars.) Moehle Lithographic Co. No. 14,679; Mar. 2; Gaz. vol. 140; p. 253.
- "Temple Garden Tea." (For Tea.) Ceylana Tea Company. No. 14,966; June 29; Gaz. vol. 143; p. 1343.
- "Tennessee Style Sorghum Flavored Syrup." (For a Syrup Composed of Corn-Syrup and Sorghum.) Farrell & Company. No. 14,750; Apr. 13; Gaz. vol. 141; p. 564.
- "That's All The Perfect Garter." (For Garters.) That's All Garter Company. No. 14,899; June 8; Gaz. vol. 143; p. 560.
- "The Aero Game." (For a Game.) C. R. Bannhr. No. 14,622; Feb. 2; Gaz. vol. 139; p. 196.
- "The Angelus." (For Cigars.) Elmer E. Kirkland & Co. No. 14,763; Apr. 20; Gaz. vol. 141; p. 864.
- "The 'Babesjoy' Nursing Outfit." (For Nursing-Outfits.) Seamless Rubber Company. No. 14,602; Jan. 26; Gaz. vol. 138; p. 963.
- "The 'Babesjoy' Nursing Outfit." (For Nursing-Outfits.) Seamless Rubber Company. No. 14,623; Feb. 2; Gaz. vol. 139; p. 196.
- "The 'Babesjoy' Nursing Outfit." (For Nursing-Outfits.) Seamless Rubber Company. Nos. 14,637-8; Feb. 9; Gaz. vol. 139; p. 460.
- "The Big Stick Cigar." (For Cigars.) M. M. Pirkey. No. 14,910; June 22; Gaz. vol. 143; p. 1107.
- "The 'Billy Possum' Cigar." (For Cigars.) The Harper Supply Company. No. 14,778; Apr. 27; Gaz. vol. 141; p. 1160.
- "The Blue Circle Pills." (For Pills.) A. P. Taylor. No. 14,892; June 8; Gaz. vol. 143; p. 560.
- "The Boxenbaum Discovery." (For a Remedy for Epilepsy, Convulsions, Spasms, and Similar Diseases.) Boxenbaum Company. No. 14,618; Feb. 2; Gaz. vol. 139; p. 196.
- "The Brilliant Shoe Dressing." (For a Dressing for Ladies' and Children's Shoes.) Lipshitz Bros. No. 14,702; Mar. 9; Gaz. vol. 140; p. 505.
- "The Chester." (For Cigars.) Chester Cigar Co. No. 14,660; Feb. 23; Gaz. vol. 139; p. 987.
- "The Commercial Club." (For Cigars.) C. B. Henschel Mfg. Co. No. 14,644; Feb. 16; Gaz. vol. 139; p. 728.
- "The Crown Celery Tonic." (For a Non-Alcoholic Carbonated Beverage.) I. Zloczower. No. 14,741; Apr. 6; Gaz. vol. 141; p. 284.
- "The Darby Boy." (For Whipped-Cream Chocolates.) Darby Candy Co. of Baltimore City. Nos. 14,885-90; June 8; Gaz. vol. 143; p. 560.
- "The Faultless \$3.50 Shoe." (For Shoes.) Zeman Collins Shoe Co. No. 14,976; June 29; Gaz. vol. 143; p. 1343.
- "The General." (For Canned Peaches.) W. L. Dobbs. No. 14,598; Jan. 26; Gaz. vol. 138; p. 963.
- "The Great National Catarrh Remedy." (For Medicine.) G. W. Mellinger. No. 14,594; Jan. 12; Gaz. vol. 138; p. 526.
- "The Green Carton." (For Hawaiian Pineapple in Slices.) J. M. Chapman. No. 14,665; Feb. 23; Gaz. vol. 139; p. 987.
- "The Hermit." (For Cigars.) C. B. Henschel Mfg. Co. No. 14,746; Apr. 13; Gaz. vol. 141; p. 564.
- "The Kleen-Pheet Hose." (For Hosiery.) Burd Knitting Mills Co. No. 14,873; June 1; Gaz. vol. 143; p. 256.
- "The Lemons That Keep." (For Lemons.) Limoneira Company. No. 14,982; June 29; Gaz. vol. 143; p. 1343.
- "The 'Oxen Waggon'." (For Tea.) Mazawattee Tea Company. No. 14,795; May 4; Gaz. vol. 142; p. 286.
- "The Popular Drink-Breeze." (For a Beverage.) D. H. Williams Co. No. 14,695; Mar. 9; Gaz. vol. 140; p. 505.
- "The Radisson." (For Cigars.) Hoppenrath Cigar Co. No. 14,876; June 8; Gaz. vol. 143; p. 560.
- "The 'Ri-Co' Muffler." (For Mufflers.) N. J. Rich & Co. No. 14,909; June 15; Gaz. vol. 143; p. 862.
- "The Specific A. No. 1." (For a Medicine.) A. Schoenheit Medicine Co. No. 14,968; June 29; Gaz. vol. 143; p. 1343.
- "The Square Deal Men's Handkerchiefs." (For Handkerchiefs.) F. J. Crystal. No. 14,921; June 22; Gaz. vol. 143; p. 1107.
- "The Standard Handkerchiefs." (For Handkerchiefs.) Robert Gair Company. No. 14,773; Apr. 20; Gaz. vol. 141; p. 864.
- "The Unique Novelty Photographic Printing Outfit." (For Photographic-Printing Outfits.) The Philadelphia General Manufacturing Co. No. 14,834; May 18; Gaz. vol. 142; p. 854.
- "Thea-Soda." (For Non-Alcoholic Beverages.) Thea-Soda Company. No. 14,880; June 8; Gaz. vol. 143; p. 560.
- "Thoro." (For Powdered Toilet Soap.) F. D. Thorne. No. 14,687; Mar. 2; Gaz. vol. 140; p. 253.
- "Time Lohk." (For Blended Coffee.) F. H. Blighton. No. 14,881; June 8; Gaz. vol. 143; p. 560.
- "Tomahawk." (For Hosiery.) Richmond Hosiery Mills. No. 14,861; May 25; Gaz. vol. 142; p. 1112.
- "Tonica." (For a Soft Drink Designated a Temperance Beverage.) Indianapolis Brewing Co. No. 15,065; Sept. 28; Gaz. vol. 146; p. 956.
- "Top Notcher Cigars." (For Cigars.) W. H. Grimm. No. 14,924; June 29; Gaz. vol. 143; p. 1342.
- "Transparent Glove and Cloth Cleaner." (For a Glove and Cloth Cleaner.) H. Metcalf & Co. No. 14,872; June 1; Gaz. vol. 143; p. 256.
- "Trousers Specialists." (For Trousers.) Friedman Bros. No. 14,964; June 29; Gaz. vol. 143; p. 1343.
- "25 Cents Baking Powder." (For Baking-Powder.) H. F. Weir. No. 14,904; June 15; Gaz. vol. 143; p. 862.
- "Uncle Sam." (For Cleansers in Powdered Form.) P. C. Tomson & Company. No. 14,905; June 15; Gaz. vol. 143; p. 862.
- "Unesda." (For a Remedy for Constipation, Biliousness, Sour Stomach, Foul Breath, and Sick Headache.) M. Carnot. No. 14,955; June 29; Gaz. vol. 143; p. 1342.
- "Ungt. Pen-A-Derm Compound." (For Medicines for the Treatment of Skin Diseases.) A. K. Albright. No. 14,987; June 29; Gaz. vol. 143; p. 1343.
- "Unguentum Rezinnox." (For an Ointment.) Towns & James. No. 14,737; Mar. 30; Gaz. vol. 140; p. 1205.
- "Union Favorite." (For Cigars.) Moehle Lithographic Co. No. 14,706; Mar. 16; Gaz. vol. 140; p. 754.
- "Union Made." (For Straw Hats.) Straw Hatters' Union of New York and Vicinity. No. 14,998; June 29; Gaz. vol. 143; p. 1343.
- "US-MER-JA Forhan's." (For a Preparation for the Treatment of Psoriasis.) R. J. Forhan. No. 14,757; Apr. 13; Gaz. vol. 141; p. 564.
- "Valdemoro." (For Cigars.) Mendez & Gomez. No. 14,718; Mar. 23; Gaz. vol. 140; p. 999.
- "Vassar Violet." (For Perfumery.) J. D. Sauter. No. 14,673; Feb. 23; Gaz. vol. 139; p. 987.
- "Vassar Violet." (For Talcum Powder.) J. D. Sauter. No. 14,755; Apr. 13; Gaz. vol. 141; p. 564.
- "Velvet Rubber Heels." (For Rubber Heels.) F. W. Whitcher Co. No. 14,761; Apr. 13; Gaz. vol. 141; p. 564.
- "Vernon's Special Flat Opening Blank Books." (For Blank Books.) S. E. & M. Vernon. No. 14,642; Feb. 9; Gaz. vol. 139; p. 460.
- "Very Best." (For Cigars.) Evans-Bloom Cigar Co. No. 14,923; June 29; Gaz. vol. 143; p. 1342.
- "Vigor Ferina." (For a Medicinal Preparation.) Tirico Pharmacal Company. No. 14,668; Feb. 23; Gaz. vol. 139; p. 987.
- "Violet Illusion." (For Perfumery.) Geo. Borgfeldt & Co. No. 15,056; Aug. 24; Gaz. vol. 145; p. 1020.
- "Vuelta News." (For Cigars.) Schmidt & Co. No. 14,838; May 25; Gaz. vol. 142; p. 1112.
- "Waldorf." (For Sliced Beef.) C. E. Nessle Packing Co. No. 14,632; Feb. 9; Gaz. vol. 139; p. 460.
- "Wanamaker Water-Spot Proof Foulards." (For Piece Goods Known as Foulards.) J. Wanamaker. No. 15,063; Sept. 14; Gaz. vol. 146; p. 504.
- "Wanamaker Water-Spot Proof Silks." (For Piece Silk Goods.) J. Wanamaker. No. 14,675; Feb. 23; Gaz. vol. 139; p. 987.
- "Wanigas." (For Straight Rye Whisky.) J. J. Wall. No. 15,068; Nov. 9; Gaz. vol. 148; p. 567.
- "Washee Wafer." (For a Washing Preparation.) Washee Manufacturing Co. No. 14,895; June 8; Gaz. vol. 143; p. 560.
- "Washeeze." (For a Detergent.) Wm. A. Hoag & Co. No. 14,785; Apr. 27; Gaz. vol. 141; p. 1160.
- "Weller's." (For Tomato Catsup.) J. Weller Co. No. 15,049; June 29; Gaz. vol. 143; p. 1344.



*Alphabetical list of labels—Continued.*

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- "Wheeler's Creo-Balsamic Cough Elixir." (For a Medicine.) Creo-Balsamic Co. No. 14,709; Mar. 16; Gaz. vol. 140; p. 754.  
"White Rose." (For Wine.) J. L. Schneller. No. 14,808; May 11; Gaz. vol. 142; p. 566.  
"White's New Life for Feet." (For Foot-Powder.) White's Laboratories. No. 14,939; June 29; Gaz. vol. 143; p. 1342.  
"Whittam's Champagne Bouquet Gum." (For a Gum.) C. N. Whittam. No. 14,611; Feb. 2; Gaz. vol. 139; p. 196.  
"Whittam's Peppermint Gum." (For Peppermint Gum.) C. N. Whittam. No. 14,612; Feb. 2; Gaz. vol. 139; p. 196.  
"Witt Brand Label." (For Photographic Card-Mounts.) F. Wittman. No. 14,969; June 29; Gaz. vol. 143; p. 1343.  
"Wizard." (For Hosiery.) Richmond Hosiery Mills. No. 14,857; May 25; Gaz. vol. 142; p. 1112.  
"Wolf's Catarrh Remedy." (For Medicine for Catarrh.) H. Wolf. No. 15,071; Dec. 14; Gaz. vol. 149; p. 600.  
"Wound Lacing." (For Adhesive Plaster.) Stengle-Taylor Co. No. 14,960; June 29; Gaz. vol. 143; p. 1342.  
"Yellowstone Park." (For Cigars.) Royal Havana Cigar Mfg. Co. No. 14,980; June 29; Gaz. vol. 143; p. 1343.  
"Ziolite Rawhide Whip." (For Whips.) L. H. Beals & Son Co. No. 14,962; June 29; Gaz. vol. 143; p. 1342.
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## PRINTS.

- "A Case of Desertion." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,418; Feb. 16; Gaz. vol. 139; p. 728.
- "A little dog you see at first—Of all sad fates, his end is wurst." (For Sausages.) Hall-Taylor Co. No. 2,454; Apr. 6; Gaz. vol. 141; p. 284.
- "A Modern Atlas." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,431; Mar. 2; Gaz. vol. 140; p. 253.
- "A True Case." (For Automobile-Tire Reliners.) F. Krichbaum. No. 2,469; Apr. 20; Gaz. vol. 141; p. 864.
- "Acme Flour." (For Flour.) E. V. Mendenhall. No. 2,463; Apr. 20; Gaz. vol. 141; p. 864.
- "All Maids and Housewives!" (For Flour.) Washburn Crosby Company. No. 2,512; June 8; Gaz. vol. 143; p. 560.
- "Automatic French Polish." (For a Polish.) C. P. Bennett. No. 2,437; Mar. 9; Gaz. vol. 140; p. 505.
- "Autumn, Reveries, Norma and Polly Backs, Congress Playing Cards." (For Playing-Cards.) United States Playing Card Company. No. 2,503; May 25; Gaz. vol. 142; p. 1112.
- "Benjamin Clothes." (For Clothes.) Alfred Benjamin & Co. No. 2,517; June 8; Gaz. vol. 143; p. 560.
- "Benjamin Clothes Alfred Benjamin & Co. Makers New York" (For Clothes.) Alfred Benjamin & Co. No. 2,515; June 8; Gaz. vol. 143; p. 560.
- "Benjamin Clothes Made In New York." (For Clothes.) Alfred Benjamin & Co. No. 2,510; June 1; Gaz. vol. 143; p. 256.
- "Benjamin Clothes Made In New York Alfred Benjamin & Co. Makers." (For Clothes.) Alfred Benjamin & Co. No. 2,516; June 8; Gaz. vol. 143; p. 560.
- "Benjamin Made Clothes." (For Clothes.) Alfred Benjamin & Co. No. 2,536; June 29; Gaz. vol. 143; p. 1344.
- "Bre(a)d In Old Kentucky." (For Flour.) No. 2,409; Jan. 5; Gaz. vol. 138; p. 255.
- "Broadway Clothes." (For Men's Clothing.) S. W. Peck & Co. No. 2,486; May 4; Gaz. vol. 142; p. 286.
- "Bulletin No. 4." (For Men's and Boys' Coats, Vests, and Trousers.) E. V. Price & Co. No. 2,534; June 29; Gaz. vol. 143; p. 1314.
- "Bulletin No. 5." (For Men's and Boys' Coats, Vests, and Trousers.) E. V. Price & Co. No. 2,535; June 29; Gaz. vol. 143; p. 1344.
- "Burke's Bottled Guinness Stout." (For Stout.) Edward & John Burke. No. 2,545; June 29; Gaz. vol. 143; p. 1344.
- "California Flower Girl." (For California Perfumes.) Paul Rieger & Co. No. 2,421; Feb. 16; Gaz. vol. 139; p. 728.
- "Carroll Rye." (For a Blend of Rye Whiskies.) Louis Tausig & Company. No. 2,550; Aug. 31; Gaz. vol. 145; p. 1243.
- "Change Fertile Eggs Into Healthy Chicks." (For Incubator-Supplies.) H. M. Sheer Co. No. 2,449; Mar. 23; Gaz. vol. 140; p. 999.
- "Child and Dog." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,522; June 15; Gaz. vol. 143; p. 862.
- "Chocolate Wheat Kernels." (For a Cereal Food Product.) Natural Food Company. No. 2,531; June 29; Gaz. vol. 143; p. 1344.
- "Colgate's Talc Powder." (For Talc Powder.) Colgate & Co. No. 2,490; May 11; Gaz. vol. 142; p. 566.
- "Continuous Crabbing Machine." (For Cloth-Crabbing Machines.) A. Birch. Nos. 2,537-8; June 29; Gaz. vol. 143; p. 1344.
- "Cream of Wheat is Ready." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,417; Feb. 16; Gaz. vol. 139; p. 728.
- "Cut of Mattress." (For Mattresses.) Sears, Roebuck & Company. Nos. 2,422-6; Feb. 16; Gaz. vol. 139; p. 728.
- "Cut of Mattress." (For Mattresses.) Sears, Roebuck and Co. No. 2,539; June 29; Gaz. vol. 143; p. 1344.
- "Dolly Back, Columbia Playing Cards." (For Playing-Cards.) United States Playing Card Company. No. 2,475; May 4; Gaz. vol. 142; p. 286.
- "Douche De Luxe." (For Douche.) E. T. Pearl. No. 2,514; June 8; Gaz. vol. 143; p. 560.
- "Duplex." (For Overcoats.) Kuhn, Nathan & Fischer Co. No. 2,507; June 1; Gaz. vol. 143; p. 256.
- "Fairy." (For Polish.) Asher and Weir. No. 2,467; Apr. 20; Gaz. vol. 141; p. 864.
- "Fast Asleep." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,420; Feb. 16; Gaz. vol. 139; p. 728.
- "Fifth Avenue Clothes." (For Clothes.) Sherman & Bryan. No. 2,482; May 4; Gaz. vol. 142; p. 286.
- "Fisk Tires." (For Tires.) Fisk Rubber Company. No. 2,544; June 29; Gaz. vol. 143; p. 1344.
- "Foot Rest." (For Foot-Powder.) Lake Chemical Company. No. 2,513; June 8; Gaz. vol. 143; p. 560.
- "Frankel's New York City Tailored Clothes." (For Clothes.) Frankel Brothers. No. 2,508; June 1; Gaz. vol. 143; p. 256.
- "Frankel's Tailored in New York City Clothes." (For Clothes.) Frankel Brothers. No. 2,509; June 1; Gaz. vol. 143; p. 256.
- "Garwood's Violet Breath Hearts." (For Confections.) Schandain & Lind. Nos. 2,504-5; June 1; Gaz. vol. 143; p. 256.
- "Gold Crown Flour." (For Flour.) E. V. Mendenhall. No. 2,552; Oct. 12; Gaz. vol. 147; p. 515.
- "Golden Grain." (For Wheat-Flour.) E. V. Mendenhall. No. 2,554; Oct. 26; Gaz. vol. 147; p. 1033.
- "Golden Sheaf Flour." (For Flour.) E. V. Mendenhall. No. 2,462; Apr. 20; Gaz. vol. 141; p. 864.
- "Gotham Clothes." (For Clothes.) Sherman & Bryan. No. 2,480; May 4; Gaz. vol. 142; p. 286.
- "Gumless." (For Varnishes.) A. B. Simons. No. 2,492; May 11; Gaz. vol. 142; p. 566.
- "Hasn't Scratched Yet!!!!" (For a Scouring-Soap.) Bon Ami Company. Nos. 2,411-12; Jan. 26; Gaz. vol. 138; p. 963.
- "Have You the Lucky Key." (For Keys.) F. J. Cooper Advertising Agency. No. 2,434; Mar. 2; Gaz. vol. 140; p. 253.
- "Heine Embroideries." (For Embroideries.) A. B. Heine & Co. Nos. 2,478-9; May 4; Gaz. vol. 142; p. 286.
- "I Know That Man." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,419; Feb. 16; Gaz. vol. 139; p. 728.
- "I'll Drop in Will you Save me." (For Packing.) Crandall Packing Co. No. 2,452; Mar. 30; Gaz. vol. 140; p. 1205.
- "Iron Rust Soap." (For Soap.) J. H. Gartside. No. 2,477; May 4; Gaz. vol. 142; p. 286.
- "It Is Safer For You." (For Men's and Boys' Coats, Vests, and Trousers.) E. V. Price & Co. No. 2,458; Apr. 6; Gaz. vol. 141; p. 284.
- "J. B. & Co." (For Awnings.) John Boyle and Company. No. 2,487; May 4; Gaz. vol. 142; p. 286.
- "Jack-The-Giant Killer." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,427; Feb. 23; Gaz. vol. 139; p. 987.
- "Jumbo Overalls." (For Overalls.) Stuart and Keith. No. 2,413; Jan. 26; Gaz. vol. 138; p. 963.
- "King of the West." (For Wheat-Flour.) E. V. Mendenhall. No. 2,555; Oct. 26; Gaz. vol. 147; p. 1033.
- "Knickerbocker Clothes." (For Clothes.) Sherman & Bryan. No. 2,484; May 4; Gaz. vol. 142; p. 286.
- "La Creme 'Disinfective' Toilet Soap." (For Toilet Soap.) Hygienic Products Company. No. 2,491; May 11; Gaz. vol. 142; p. 566.
- "Lies Flat On The Brush." (For Dental Cream.) Colgate & Company. No. 2,473; May 4; Gaz. vol. 142; p. 286.
- "Little Wonder." (For Children's Stockings.) W. V. Snyder Co. No. 2,524; June 15; Gaz. vol. 143; p. 862.
- "Loose Fitting B. V. D. Coat Cut Undershirts and Knee Length Drawers." (For Undershirts and Drawers.) B. V. D. Company. No. 2,498; May 18; Gaz. vol. 142; p. 854.
- "Lubriko." (For Lubricating Oil and Grease.) Commercial Lubricating Co. No. 2,443; Mar. 16; Gaz. vol. 140; p. 754.
- "Manhattan Clothes." (For Clothes.) Sherman & Bryan. No. 2,481; May 4; Gaz. vol. 142; p. 286.
- "Marcella." (For Ladies' Underwear.) M. W. Dyer. No. 2,542; June 29; Gaz. vol. 143; p. 1344.
- "May the lemons be few Which the world hands to you." (For Lemons.) Hall-Taylor Co. No. 2,465; Apr. 20; Gaz. vol. 141; p. 864.
- "McArthur's Portable Fire Escape and Jacob's Ladder." (For Fire-Escapes and Jacob's Ladders.) M. J. McArthur. No. 2,488; May 4; Gaz. vol. 142; p. 286.
- "Mendelsohn's Newspaper Cut Service for Brewers and Bottlers." (For Beer.) F. Mendelsohn. No. 2,472; May 4; Gaz. vol. 142; p. 286.
- "Mens Apparel." (For Men's Apparel.) A. Decker & Cohn. No. 2,444; Mar. 16; Gaz. vol. 140; p. 754.
- "Metropolitan Clothes." (For Clothes.) Sherman & Bryan. No. 2,483; May 4; Gaz. vol. 142; p. 286.
- "My Favorites." (For Chocolates with Nut Centers.) Huyler's. No. 2,416; Feb. 9; Gaz. vol. 139; p. 460.
- "New Adler Conceptions For Spring 1909." (For Men's Spring Apparel, 1909.) David Adler & Sons Clothing Co. No. 2,457; Apr. 6; Gaz. vol. 141; p. 284.
- "New Gum Coca." (For Gum.) W. A. Renz. No. 2,466; Apr. 20; Gaz. vol. 141; p. 864.
- "New York Made Clothes." (For Clothes.) S. W. Peck & Co. No. 2,485; May 4; Gaz. vol. 142; p. 286.
- "Nick and Dick." (For Cigars.) G. A. Oberdorff. No. 2,493; May 18; Gaz. vol. 142; p. 854.
- "Our Advocate." (For Men's and Boys' Coats, Vests, and Trousers.) E. V. Price & Co. No. 2,439; Mar. 9; Gaz. vol. 140; p. 505.
- "Our New Model Pivot Polisher." (For Pivot-Polishers.) American Watch Tool Company. No. 2,523; June 15; Gaz. vol. 143; p. 862.
- "Our Trophy Flour." (For Flour.) E. V. Mendenhall. No. 2,464; Apr. 20; Gaz. vol. 141; p. 864.
- "Pansy, Chums, Stung and The Widow Backs, Congress Playing Cards." (For Playing-Cards.) United States Playing Card Company. No. 2,551; Sept. 14; Gaz. vol. 146; p. 504.
- "Pennant Candies." (For Candies.) L. Roy Curtiss Advertising Company. No. 2,453; Apr. 6; Gaz. vol. 141; p. 284.
- "Perin's Pride Flour." (For Flour.) Perin Bros. No. 2,471; Apr. 27; Gaz. vol. 141; p. 1160.
- "Poor Old Robinson Crusoe." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,521; June 1; Gaz. vol. 143; p. 862.
- "Portland Cement." (For Portland Cement.) Northwestern Cement Products Assn. No. 2,543; June 29; Gaz. vol. 143; p. 1344.
- "Premier Flour." (For Flour.) E. V. Mendenhall. No. 2,461; Apr. 20; Gaz. vol. 141; p. 864.
- "Purity Brand." (For Pillows.) Sears, Roebuck and Co. No. 2,541; June 29; Gaz. vol. 143; p. 1344.
- "Pyramid Fly Catcher." (For Fly-Paper.) Louis Dejonge & Co. No. 2,456; Apr. 6; Gaz. vol. 141; p. 284.



*Alphabetical list of prints—Continued.*

- "Queen's Taste B.B." (For Wheat-Flour.) E. V. Mendenhall. No. 2,553; Oct. 26; Gaz. vol. 147; p. 1033.
- "Redfern Directoire Figure." (For Corsets.) Warner Brothers Co. No. 2,546; June 29; Gaz. vol. 143; p. 1344.
- "Richmond." (For Boilers, Radiators, Heating and Plumbing Supplies.) Cameron Schroth Cameron Company. No. 2,440; Mar. 9; Gaz. vol. 140; p. 505.
- "Royal Queen Flour." (For Flour.) E. V. Mendenhall. No. 2,494; May 18; Gaz. vol. 142; p. 854.
- "Sa-So Pepsin Bubble Balloon Gum." (For Pepsin Gum.) Ray Gum Company. No. 2,455; Apr. 6; Gaz. vol. 141; p. 284.
- "Sapolin Gold Enamel." (For Gold Enamel.) Gerstendorfer Bros. No. 2,460; Apr. 13; Gaz. vol. 141; p. 564.
- "School Days." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,428; Feb. 23; Gaz. vol. 139; p. 987.
- "Selby Loads." (For Shotgun-Shells.) Selby Smelting and Lead Company. No. 2,435; Mar. 2; Gaz. vol. 140; p. 253.
- "Selby Metals." (For Metals.) Selby Smelting and Lead Company. No. 2,436; Mar. 2; Gaz. vol. 140; p. 253.
- "Semola." (For an Insecticide.) Semola Man'g Co. No. 2,556; Dec. 14; Gaz. vol. 149; p. 600.
- "Shaffer's Log Cabin Flour." (For Flour.) E. V. Mendenhall. No. 2,441; Mar. 16; Gaz. vol. 140; p. 754.
- "Shredded Wheat." (For a Breakfast Food.) Shredded Wheat Company. No. 2,501; May 25; Gaz. vol. 142; p. 1112.
- "Soft Spots." (For Pneumatic Heel-Cushions.) International Specialty Company. No. 2,410; Jan. 5; Gaz. vol. 138; p. 255.
- "Solar Motor Lamp Chart." (For Lamps and Generators for Automobiles.) Badger Brass Mfg. Co. No. 2,450; Mar. 23; Gaz. vol. 140; p. 999.
- "Start Housekeeping Right." (For Flour.) Washburn Crosby Company. No. 2,451; Mar. 30; Gaz. vol. 140; p. 1205.
- "Swastika Fullback." (For Playing-Cards.) Willis W. Russell Card Co. No. 2,446; Mar. 23; Gaz. vol. 140; p. 999.
- "Swifts Economy Draft Inducer." (For Apparatus for Inducing Draft in Smoke-Stacks.) E. H. Swift. No. 2,519; June 8; Gaz. vol. 143; p. 560.
- "Swift's Economy Steam Furnace Blower." (For Steam-Furnace Blowers.) E. H. Swift. No. 2,470; Apr. 20; Gaz. vol. 141; p. 864.
- "Tech Shoe for Men." (For Men's Shoes.) Zeman-Collins Shoe Co. No. 2,468; Apr. 20; Gaz. vol. 141; p. 864.
- "That's All The Perfect Garter." (For Garters.) That's All Garter Company. No. 2,506; June 1; Gaz. vol. 143; p. 256.
- "The Adler Styles For Spring 1909." (For Men's Spring Apparel.) David Adler & Sons Clothing Co. No. 2,448; Mar. 23; Gaz. vol. 140; p. 999.
- "The American Lady." (For Corsets.) American Lady Corset Co. No. 2,429; Feb. 23; Gaz. vol. 139; p. 987.
- "The 'Hairlyke' Fringe Net." (For Hair-Nets.) Burnet and Temple. No. 2,502; May 25; Gaz. vol. 142; p. 1112.
- "The Hartford Clincher Tire." (For Rubber Tires.) The Hartford Rubber Works Company. No. 2,489; May 4; Gaz. vol. 142; p. 286.
- "The Line Of Woolens." (For Men's and Boys' Coats, Vests, and Trousers.) Ed. V. Price & Co. No. 2,459; Apr. 6; Gaz. vol. 141; p. 284.
- "The Loose Fitting B. V. D. Sleeping Suit. Long Sleeves. Ankle Length." (For Sleeping-Suits.) B. V. D. Company. No. 2,499; May 18; Gaz. vol. 142; p. 854.
- "The Loose Fitting B. V. D. Sleeping Suit. Short Sleeves. Knee Length." (For Sleeping-Suits.) B. V. D. Company. No. 2,500; May 18; Gaz. vol. 142; p. 854.
- "The Loose Fitting B. V. D. Union Suit." (For Union Suits.) B. V. D. Company. No. 2,496; May 18; Gaz. vol. 142; p. 854.
- "The Man Who Knows." (For Preservative, Floor-Varnish, Enamels, and Varnishes.) Standard Varnish Works. No. 2,532; June 29; Gaz. vol. 143; p. 1344.
- "The McArthur Portable Fire Escape." (For a Fire-Escape.) M. J. McArthur. No. 2,445; Mar. 16; Gaz. vol. 140; p. 754.
- "The Modern Egyptian." (For Naishapur Cigarettes.) Oriental Tobacco Company. No. 2,530; June 29; Gaz. vol. 143; p. 1344.
- "The Old Way—The New Way." (For Bottle Stoppers or Caps.) F. K. Plympton. No. 2,549; June 29; Gaz. vol. 143; p. 1344.
- "The Substitute." (For Playing-Cards.) W. W. Russell. No. 2,476; May 4; Gaz. vol. 142; p. 286.
- "The Substitute." (For Playing-Cards.) W. W. Russell. Nos. 2,525-9; June 22; Gaz. vol. 143; p. 1107.
- "The Tire That Lasts." (For Rubber Tires.) Hartford Rubber Works Company. No. 2,518; June 8; Gaz. vol. 143; p. 560.
- "Thea-Soda." (For Non-Alcoholic Beverages.) Thea-Soda Company. No. 2,520; June 15; Gaz. vol. 143; p. 862.
- "There are both Snap and Vigor." (For Stout.) Edward & John Burke. No. 2,547; June 29; Gaz. vol. 143; p. 1344.
- "This Is For You—" (For Flour.) Washburn Crosby Company. No. 2,495; May 18; Gaz. vol. 142; p. 854.
- "Togards." (For Toe-Guards for Hosiery.) H. L. Nelke & Co. No. 2,540; June 29; Gaz. vol. 143; p. 1344.
- "Uwanta." (For Antiseptic Dustless Sweeping Compound.) Antiseptic Dustless Sweeping Compound Company. No. 2,533; June 29; Gaz. vol. 143; p. 1344.
- "Valuable Certificate." (For Toilet Preparations.) C. M. Freeman. No. 2,474; May 4; Gaz. vol. 142; p. 286.
- "Wait Till I Catch That Peacock." (For Easter-Egg Dyes.) Paas Dye Company. No. 2,442; Mar. 16; Gaz. vol. 140; p. 754.
- "Watch My Smoke." (For Sweat-Pads.) Burlington Blanket Company. No. 2,447; Mar. 23; Gaz. vol. 140; p. 999.
- "Watch the Lucky Key." (For Keys.) F. J. Cooper Advertising Agency. No. 2,432; Mar. 2; Gaz. vol. 140; p. 253.
- "Webster-Whitcomb Pump Center Headstock for Jeweling." (For Pump Center Headstocks.) American Watch Tool Company. No. 2,548; June 29; Gaz. vol. 143; p. 1344.
- "West Point Chocolates." (For Chocolates.) L. R. Conwell. No. 2,511; June 8; Gaz. vol. 143; p. 560.
- "Why the Lucky Key." (For Keys.) F. J. Cooper Advertising Agency. No. 2,433; Mar. 2; Gaz. vol. 140; p. 253.
- "Wunderhose." (For Hosiery.) Richmond Hosiery Mills. No. 2,438; Mar. 9; Gaz. vol. 140; p. 505.
- "Wylupe Harness." (For Harness.) Wyeth Hardware and Manufacturing Company. No. 2,415; Feb. 2; Gaz. vol. 139; p. 196.
- "You Can't Get Around It." (For Beer.) Conrad Seipp Brewing Co. No. 2,430; Mar. 2; Gaz. vol. 140; p. 253.
- "Your Flour." (For Flour.) Washburn Crosby Company. No. 2,414; Feb. 2; Gaz. vol. 139; p. 196.
- "Youths' Loose Fitting B. V. D. Coat Cut Undershirts and Knee Length Drawers." (For Undershirts and Drawers.) B. V. D. Company. No. 2,497; May 18; Gaz. vol. 142; p. 854.

## DISCLAIMERS.

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Can-labeling machine. E. W. Cornell. No. 612,825; date of patent Oct. 25, 1898; disclaimer filed Jan. 25, 1909; Gaz. vol. 139; p. 202.  
Carpet fastener, Stair-. H. C. Adams. No. 587,633; date of patent Aug. 3, 1907; disclaimer filed Mar. 27, 1909; Gaz. vol. 141; p. 289.  
Curtain, Fireproof drop-. J. H. Channon. No. 769,788; date of patent Sept. 13, 1904; disclaimer filed Jan. 21, 1909; Gaz. vol. 139; p. 210  
Fluid-supply systems, Fitting for. E. H. Gold. No. 872,338; date of patent Dec. 3, 1907; disclaimer filed Oct. 1, 1909; Gaz. vol. 147; p. 522.  
Rail-anchor. W. H. Walker. No. 911,856; date of patent Feb. 9, 1909; disclaimer filed Nov. 3, 1909; Gaz. vol. 147; p. 773.  
Telegraph receiver, Printing-. J. M. Joy. No. 780,664; date of patent Jan. 24, 1905; disclaimer filed Apr. 19, 1909; Gaz. vol. 141; p. 1166.  
Toy. J. C. Turner. No. 930,633; date of patent Aug. 10, 1909; disclaimer filed Oct. 8, 1909; Gaz. vol. 148; p. 575.  
Turbine, Multistage. E. Mertz. No. 892,440; date of patent July 7, 1908; disclaimer filed Mar. 27, 1909; Gaz. vol. 141; p. 289.

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